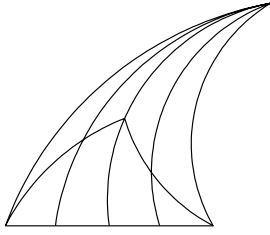




HYDRAULIC PRODUCTS

„Innovative & High Performance Hydraulics“





**Atlantic  
Fluid Tech**

# General index

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## SECTION 1



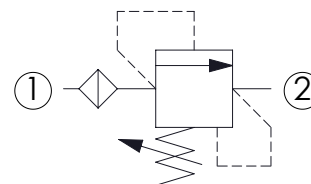
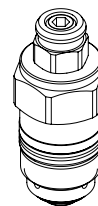
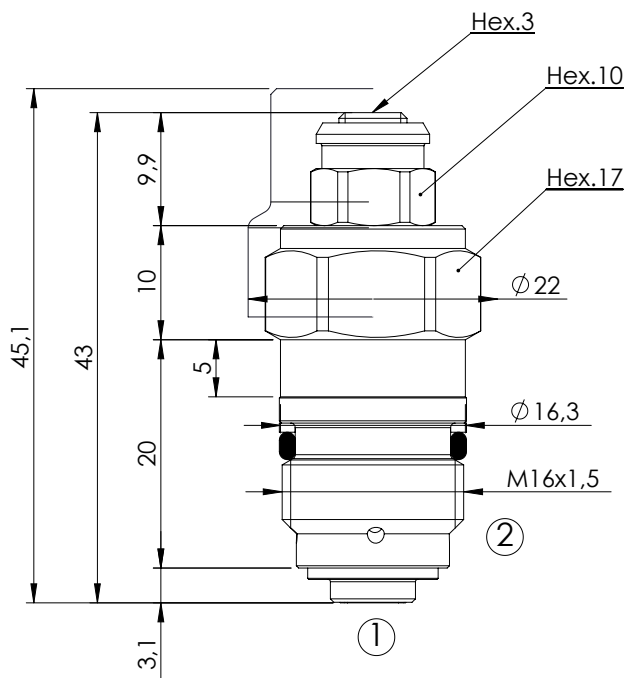
## RELIEF VALVES

Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	CPLN-005-DPNA	Direct acting, poppet type	1,5	460	Cartridge	VP000005	1.01. <b>010</b>
	CPLN-010-DHNA	Direct acting, poppet type	3	350	Cartridge	SAE-08-2N	1.01. <b>020</b> 1.01. <b>030</b>
	KPLN-010-DPNA	Direct acting, poppet type	3	350	In line	G1/4" - G3/8"	1.01. <b>040</b>
	CPLN-020-DPNA	Direct acting, poppet type	20	420	Cartridge	SAE-08-2N	1.01. <b>050</b> 1.01. <b>060</b>
	KPLN-020-DPNA	Direct acting, poppet type	20	350	In line	G1/4" - G3/8"	1.01. <b>070</b>
	CPLN-030-DPNA	Direct acting, poppet type	30	420	Cartridge	VP000008	1.01. <b>080</b>
	CPLN-030-DHNA	Direct acting, poppet type	30	350	Cartridge	VP000008	1.01. <b>090</b>
	CPLN-030-DHAA	Direct acting, poppet type	30	350	Cartridge	VP000008	1.01. <b>100</b>
	KPLN-030-DPNA	Direct acting, poppet type	30	350	In line	G3/8" - G1/2"	1.01. <b>110</b>
	CPLN-080-DPNA	Direct acting, poppet type	80	420	Cartridge	VP000086	1.01. <b>120</b>
	KPLN-080-DPNA	Direct acting, poppet type	80	350	In line	G1/2" - G3/4"	1.01. <b>130</b>
	CPLT-030-DPNA	Direct acting, poppet type, compensated	30	350	Cartridge	VP000008	1.02. <b>140</b>
	CPLT-030-DHNA	Direct acting, poppet type, compensated	30	350	Cartridge	VP000008	1.02. <b>150</b>
	CPLT-080-DHNA	Direct acting, poppet type, compensated	80	420	Cartridge	VP000086	1.02. <b>160</b>
	CPLN-040-DHGD	Differential, poppet type	40	350	Cartridge	VP000080	1.03. <b>170</b>
	CPLN-090-DHGA	Direct acting, poppet type	90	380	Cartridge	VP000249	1.03. <b>180</b>
	CPAN-090-DHGA	Direct, poppet type, anticavitation	90	380	Cartridge	VP000249	1.03. <b>190</b>
	CPLN-150-DHGD	Differential, poppet type	150	350	Cartridge	VP000070	1.03. <b>200</b>
	KPLN-150-DHGD	Differential, poppet type	150	350	In line	G1/2" - G3/4"	1.03. <b>210</b>
	CPLN-160-DHGA	Direct, poppet type	160	400	Cartridge	VP000250	1.03. <b>220</b>
	CPAN-160-DHGA	Direct, poppet type, anticavitation	160	400	Cartridge	VP000250	1.03. <b>230</b>
	CPLN-250-DHGD	Differential, poppet type	250	350	Cartridge	VP000154	1.03. <b>240</b>
	KPLN-250-DHGD	Differential, poppet type	250	350	In line	G1"	1.03. <b>250</b>
	CPLN-120-PSNA	Pilot operated, spool type	120	350	Cartridge	SAE-10-2N	1.04. <b>260</b>
	KPLN-120-PSNA	Pilot operated, spool type	120	350	In line	G3/8" - G1/2"	1.04. <b>270</b>
	CPLN-300-PSNA	Pilot operated, spool type	300	350	Cartridge	SAE-16-2N	1.04. <b>280</b>
	CPLN-500-PHNA	Pilot operated, spool type	500	350	Cartridge	SAE-20-2N	1.04. <b>290</b>
	CPLT-120-PSNA	Pilot operated, spool type, compensated	120	350	Cartridge	SAE-10-2N	1.05. <b>300</b>
	CPLV-120-PSNA	Pilot operated, spool type	120	350	Cartridge	SAE-10-2N	1.06. <b>310</b>
	CPSK-001-PPNA	Direct acting, poppet type, kick down type	1	350	Cartridge	SAE-10-2N	1.07. <b>320</b>

RELIEF VALVE

**CPLN-005-DPNA**

DIRECT ACTING  
WITH FILTER

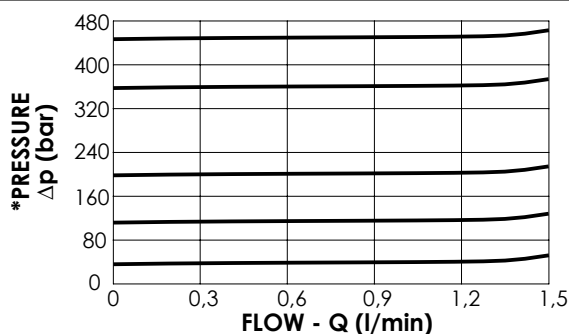
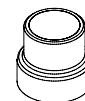


**SPECIFICATIONS**

Max. operating pressure:	460 bar
Rated flow:	1,5 l/min
Cavity:	VP000005
Weight:	0,05 kg

**SEALING CAP**

Ordering code:  
ST000014



**NOTES**

Installation torque:	27 - 33 Nm
Seal kit:	RC700005

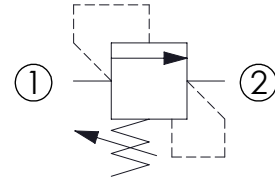
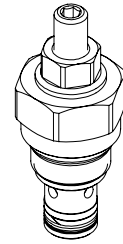
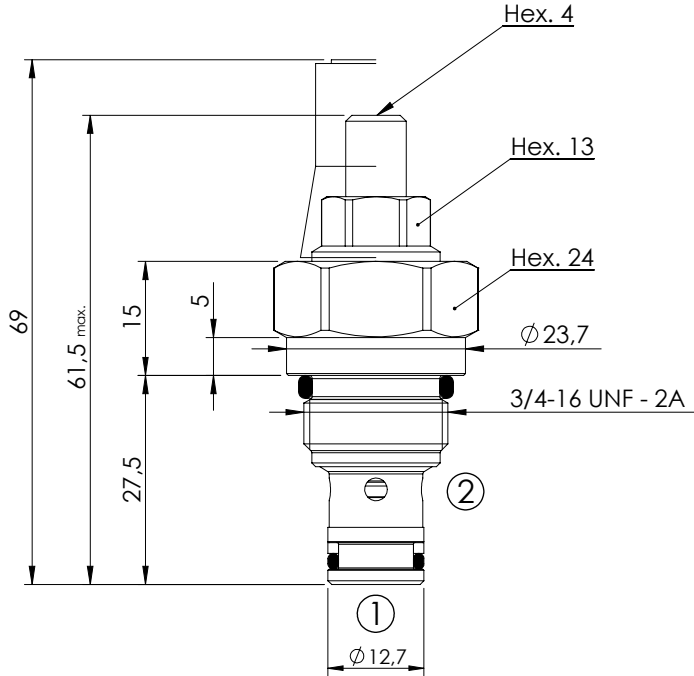
**ORDERING CODES**

Quick code	Description	Standard setting (bar/cracking pressure)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000015	CPLN-005-DPNA-PF-005-N460	460	150-460	236
CP000002	CPLN-005-DPNA-PF-005-N350	350	120-350	165
CP000029	CPLN-005-DPNA-PF-005-N200	200	100-200	75
CP000030	CPLN-005-DPNA-PF-005-N100	100	25-100	41
CP000277	CPLN-005-DPNA-PF-005-N040	40	10-40	22

RELIEF VALVE

**CPLN-010-DHNA**

DIRECT ACTING  
HARDENED SEAT

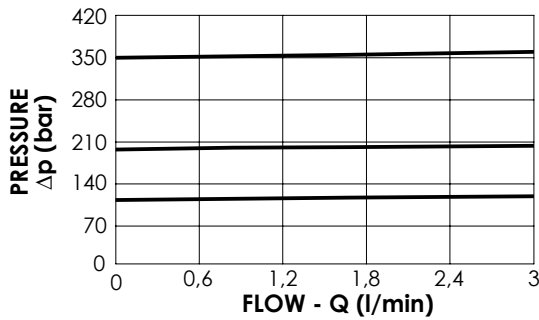
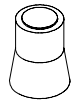


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	3 l/min
Cavity:	SAE-08-2N
Weight:	0,1 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Installation torque:	45 - 50 Nm
Seal kit:	RA700081

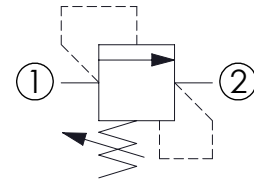
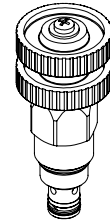
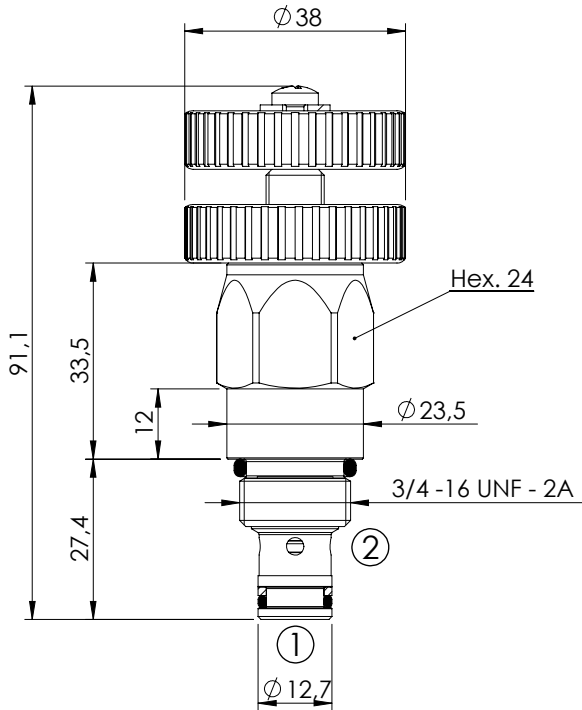
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=0,2 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000006	CPLN-010-DHNA-SN-S08-N350	350	140-350	142
CP000055	CPLN-010-DHNA-SN-S08-N200	200	90-210	87
CP000056	CPLN-010-DHNA-SN-S08-N100	100	35-110	47

RELIEF VALVE

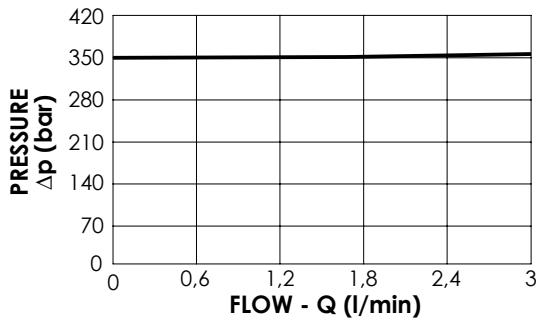
**CPLN-010-DHNA**

**DIRECT ACTING  
HARDENED SEAT**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	3 l/min
Cavity:	SAE-08-2N
Weight:	0,18 kg



**NOTES**

Installation torque:	45 - 50 Nm
Seal kit:	RA700081

**ORDERING CODES**

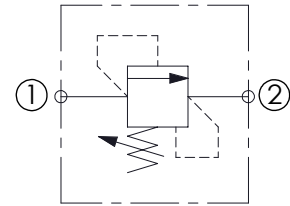
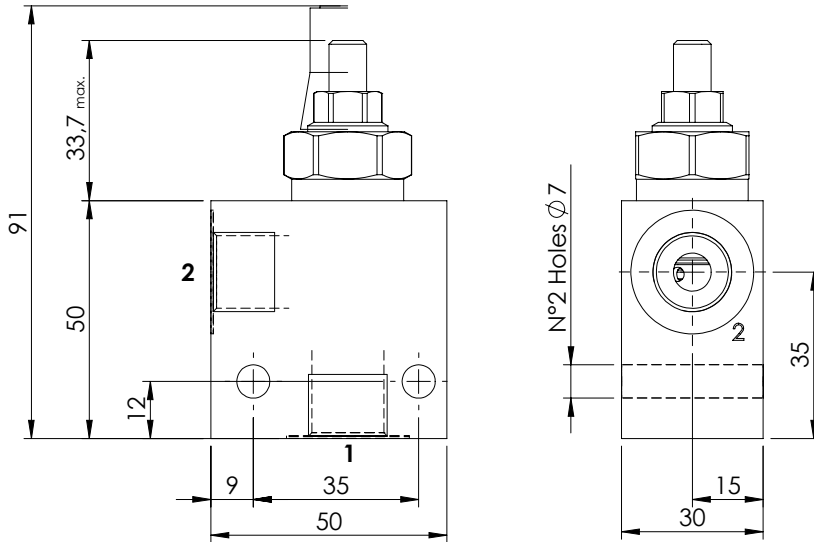
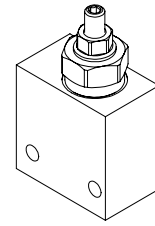
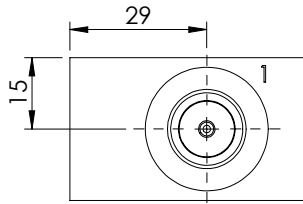
Quick code	Description	Standard setting (bar, cracking pressure)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000172	CPLN-010-DHNA-VN-S08-N350	350	20-350	83



**RELIEF VALVE IN BODY**

**KPLN-010-DPNA**

**DIRECT ACTING  
HARDENED SEAT**

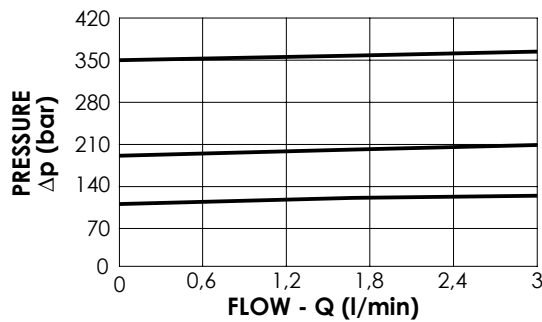
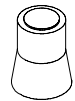


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	3 l/min
Manifold:	Aluminium
Weight:	0,25 kg

**SEALING CAP**

Ordering code:  
AT000020



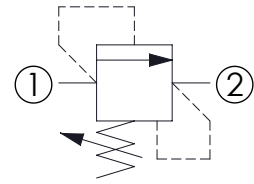
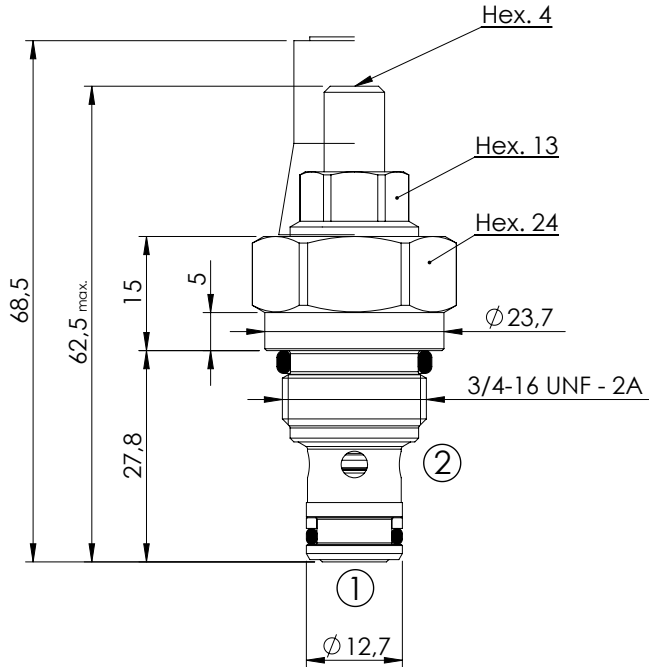
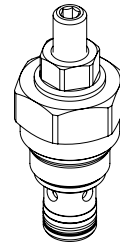
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=0.2 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000041	KPLN-010-DPNA-SN-G38-N350	P,T: G 3/8"	350	140-350	142
KP000042	KPLN-010-DPNA-SN-G38-N200	P,T: G 3/8"	200	90-210	87
KP000043	KPLN-010-DPNA-SN-G38-N100	P,T: G 3/8"	100	35-110	47
KP000044	KPLN-010-DPNA-SN-G14-N350	P,T: G 1/4"	350	140-350	142
KP000045	KPLN-010-DPNA-SN-G14-N200	P,T: G 1/4"	200	90-210	87
KP000046	KPLN-010-DPNA-SN-G14-N100	P,T: G 1/4"	100	35-110	47

RELIEF VALVE

**CPLN-020-DPNA**

DIRECT ACTING  
STABILIZED PISTON

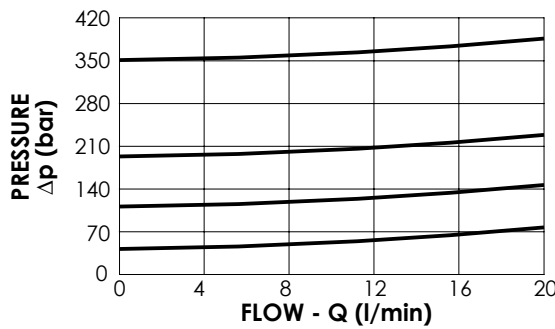
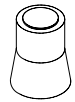


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	20 l/min
Cavity:	SAE-08-2N
Weight:	0,1 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Installation torque:	45-50 Nm
Seal kit:	RA700081

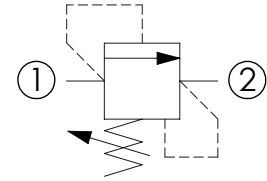
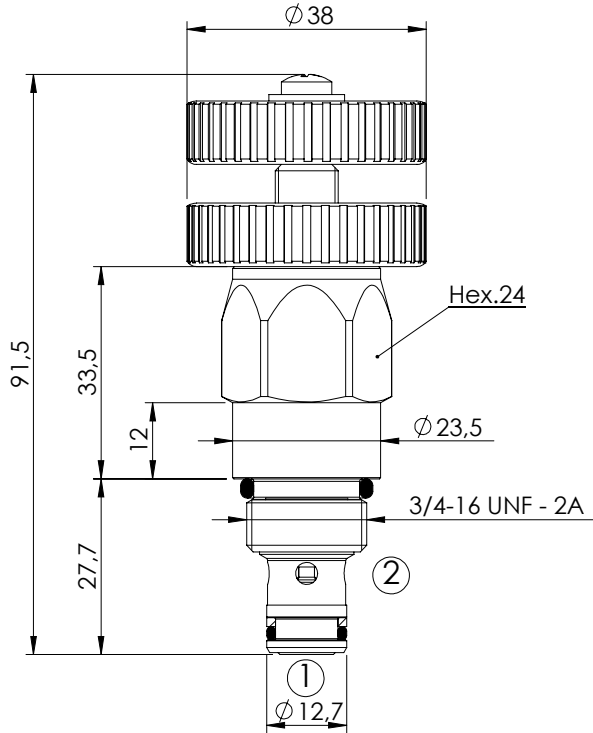
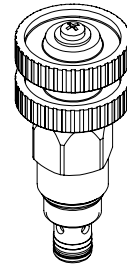
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000168	CPLN-020-DPNA-SN-S08-N420	350	200-420	207
CP000025	CPLN-020-DPNA-SN-S08-N350	350	175-350	177
CP000007	CPLN-020-DPNA-SN-S08-N200	200	105-210	80
CP000028	CPLN-020-DPNA-SN-S08-N100	100	35-140	49
CP000027	CPLN-020-DPNA-SN-S08-N050	50	10-70	26

RELIEF VALVE

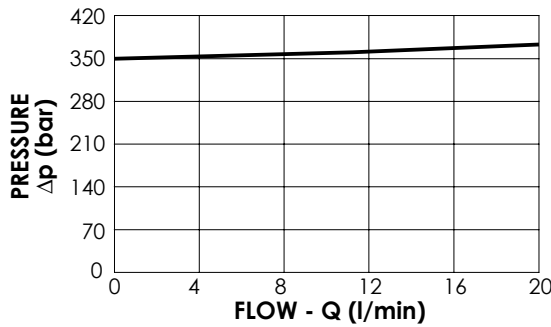
**CPLN-020-DPNA**

DIRECT ACTING



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	20 l/min
Cavity:	SAE-08-2N
Weight:	0,18 kg



**NOTES**

Installation torque:	45 - 50 Nm
Seal kit:	RA700081

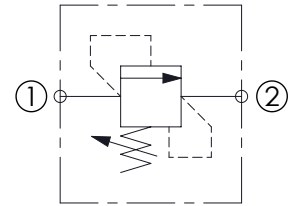
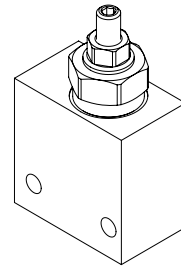
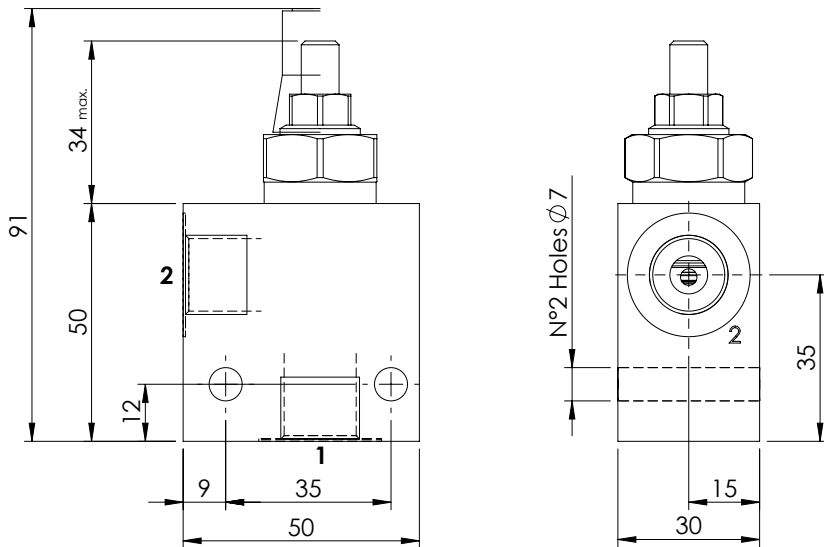
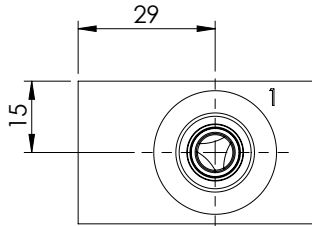
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000173	CPLN-020-DPNA-VN-S08-N350	350	20-350	56

RELIEF VALVE IN BODY

**KPLN-020-DPNA**

DIRECT ACTING  
STABILIZED PISTON

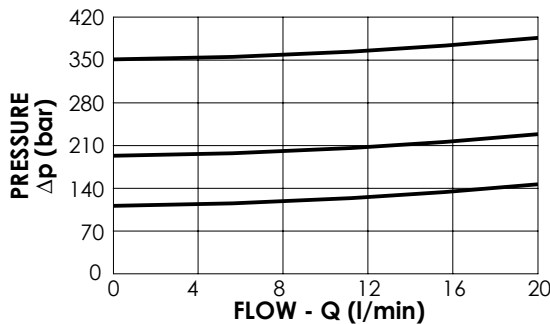
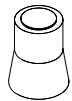


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	20 l/min
Manifold:	Aluminium
Weight:	0,25 kg

**SEALING CAP**

Ordering code:  
AT000020



**ORDERING CODES**

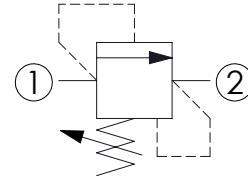
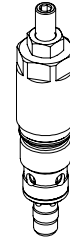
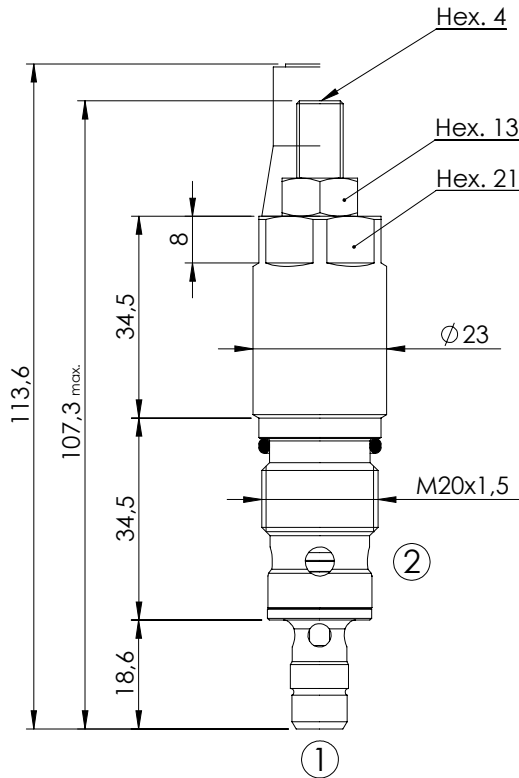
Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000010	KPLN-020-DPNA-SN-G38-N350	P,T: G 3/8"	350	175-350	177
KP000037	KPLN-020-DPNA-SN-G38-N200	P,T: G 3/8"	200	105-210	80
KP000038	KPLN-020-DPNA-SN-G38-N100	P,T: G 3/8"	100	35-140	49
KP000008	KPLN-020-DPNA-SN-G14-N350	P,T: G 1/4"	350	175-350	177
KP000039	KPLN-020-DPNA-SN-G14-N200	P,T: G 1/4"	200	105-210	80
KP000040	KPLN-020-DPNA-SN-G14-N100	P,T: G 1/4"	100	35-140	49



RELIEF VALVE

**CPLN-030-DPNA**

DIRECT ACTING  
STABILIZED PISTON

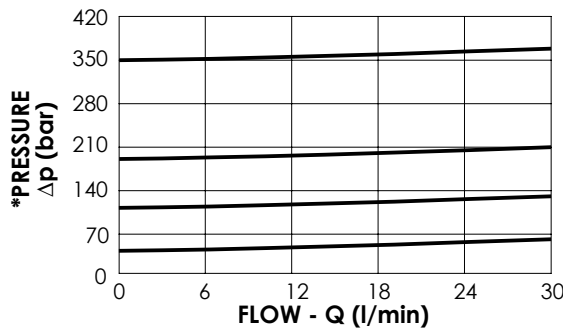
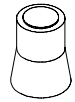


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	30 l/min
Cavity:	VP000008
Weight:	0,17 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Installation torque:	40 - 45 Nm
Seal kit:	RC700008

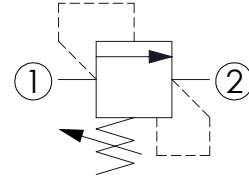
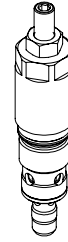
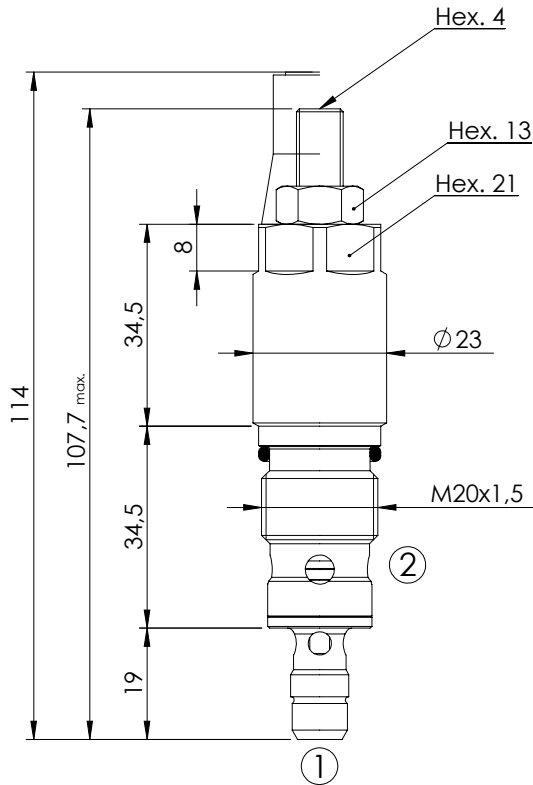
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000124	CPLN-030-DPNA-HN-008-N420	350	250-420	104
CP000001	CPLN-030-DPNA-HN-008-N350	350	100-350	91
CP000019	CPLN-030-DPNA-HN-008-N200	200	50-210	42
CP000020	CPLN-030-DPNA-HN-008-N100	100	30-100	20
CP000032	CPLN-030-DPNA-HN-008-N050	50	10-50	10

RELIEF VALVE

**CPLN-030-DHNA**

**DIRECT ACTING  
STABILIZED PISTON  
HARDENED SEAT**

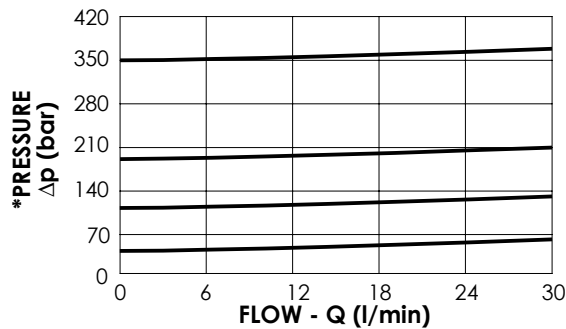
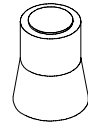


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	30 l/min
Cavity:	VP000008
Weight:	0,17 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Installation torque:	40-45 Nm
Seal kit:	RC700008

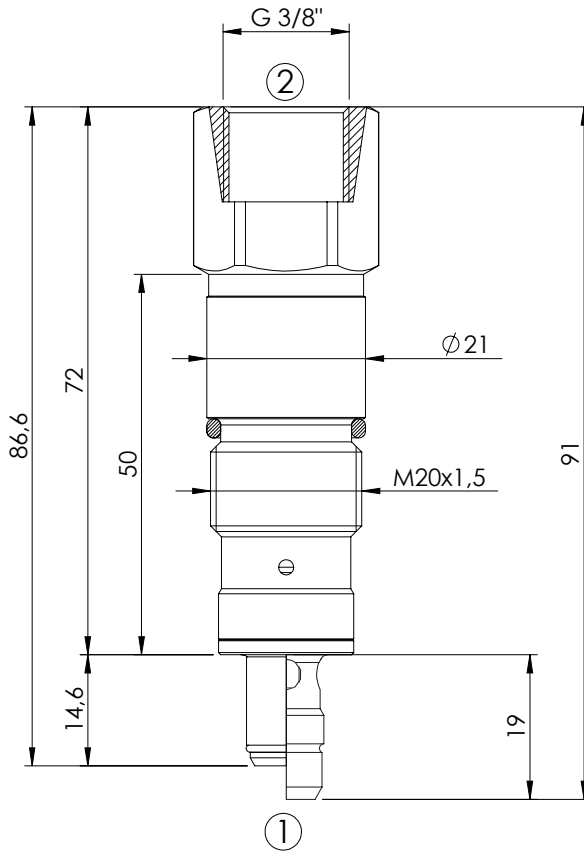
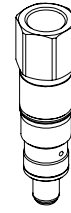
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000126	CPLN-030-DHNA-HN-008-N420	350	250-420	104
CP000082	CPLN-030-DHNA-HN-008-N350	350	100-350	91
CP000083	CPLN-030-DHNA-HN-008-N200	200	50-210	42
CP000084	CPLN-030-DHNA-HN-008-N100	100	30-100	20
CP000085	CPLN-030-DHNA-HN-008-N050	50	10-50	10

RELIEF VALVE

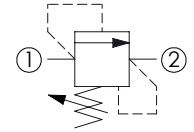
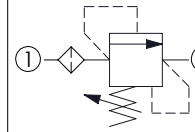
**CPLN-030-DHAA**

**DIRECT ACTING  
STABILIZED PISTON  
HARDENED SEAT**



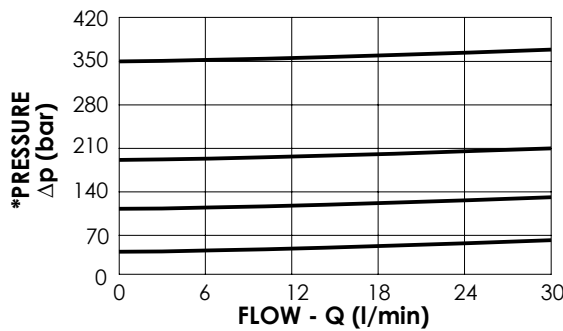
With Filter

Without Filter



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	30 l/min
Cavity:	VP000008
Weight:	0,14 kg



**NOTES**

Installation torque: 40-45 Nm

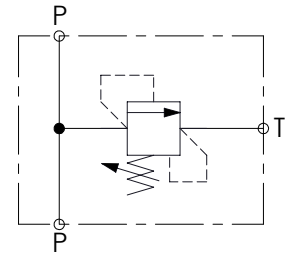
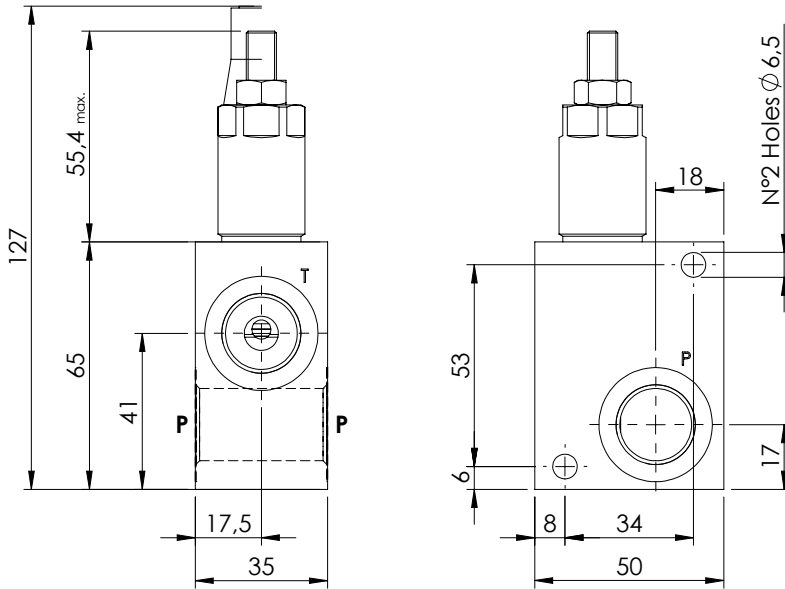
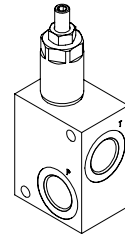
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)	Options
CP000266	CPLN-030-DHAA-GF-008-N420	350	250-420	167	With Filter
CP000141	CPLN-030-DHAA-GN-008-N350	350	100-350	102	Without Filter
CP000190	CPLN-030-DHAA-GN-008-N200	200	50-210	46	Without Filter
CP000191	CPLN-030-DHAA-GN-008-N100	100	30-100	22	Without Filter
CP000192	CPLN-030-DHAA-GN-008-N050	50	10-50	11	Without Filter

RELIEF VALVE IN BODY

**KPLN-030-DPNA**

DIRECT ACTING  
STABILIZED PISTON



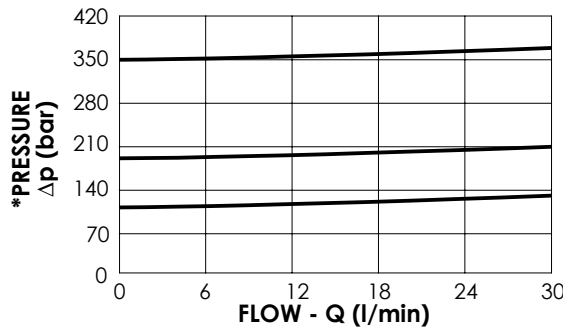
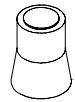
**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,4 kg

**SEALING CAP**

Ordering code:

**AT000020**



**NOTES**

\*Codes available with steel manifold.

**ORDERING CODES**

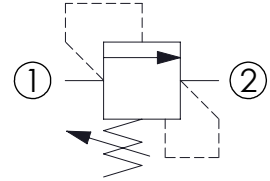
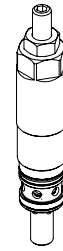
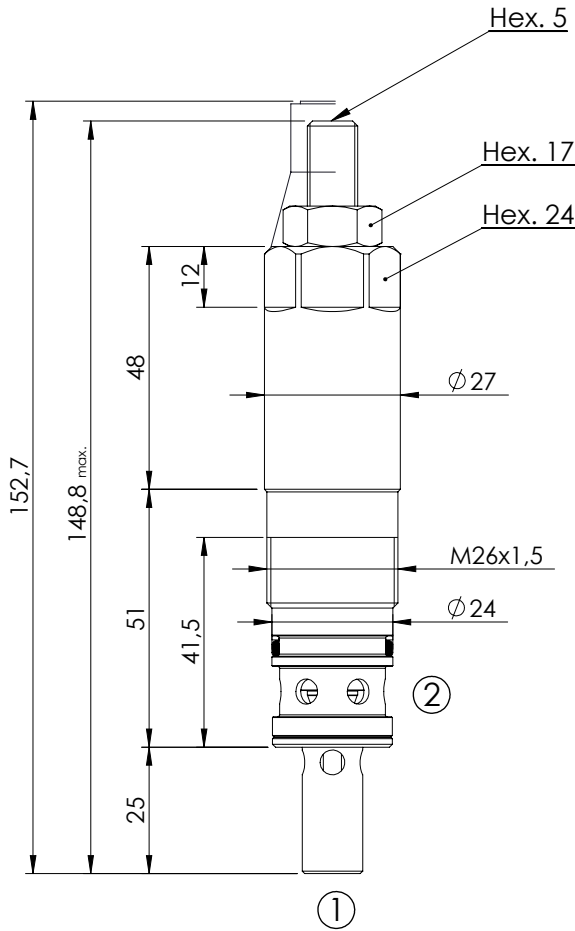
Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000006	KPLN-030-DPNA-HN-G12-N350	P,T: G 1/2"	350	100-350	91
KP000005	KPLN-030-DPNA-HN-G12-N200	P,T: G 1/2"	200	50-210	42
KP000004	KPLN-030-DPNA-HN-G12-N100	P,T: G 1/2"	100	30-100	20
KP000003	KPLN-030-DPNA-HN-G38-N350	P,T: G 3/8"	350	100-350	91
KP000002	KPLN-030-DPNA-HN-G38-N200	P,T: G 3/8"	200	50-210	42
KP000001	KPLN-030-DPNA-HN-G38-N100	P,T: G 3/8"	100	30-100	20



RELIEF VALVE

**CPLN-080-DPNA**

**DIRECT ACTING  
STABILIZED PISTON**

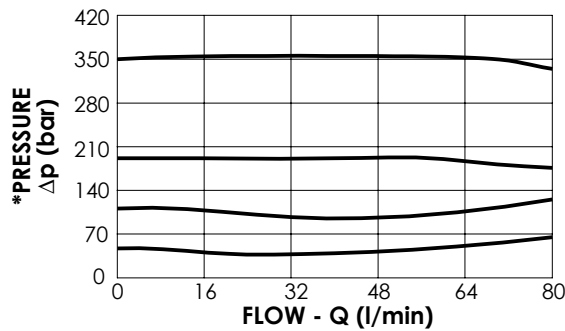
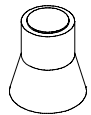


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	80 l/min
Cavity:	VP000086
Weight:	0,34 kg

**SEALING CAP**

Ordering code:  
AT000021



**NOTES**

Installation torque:	80 - 95 Nm
Seal kit:	RC700086

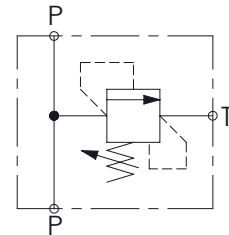
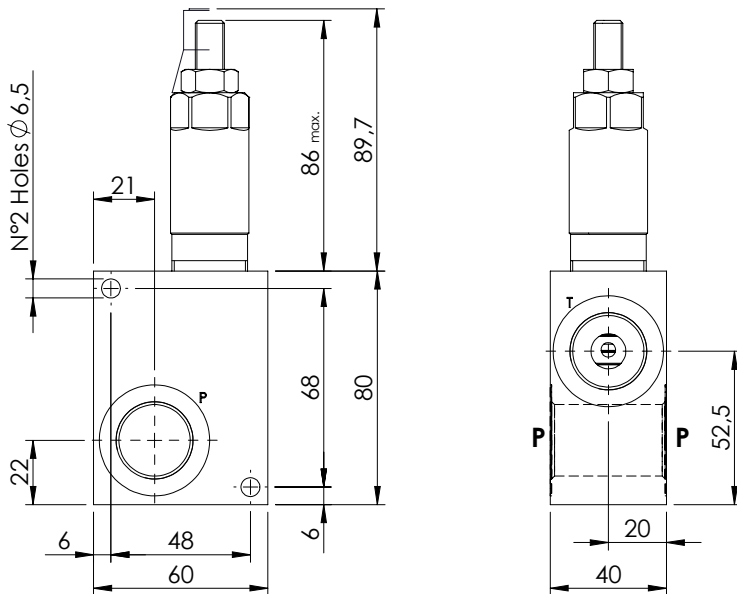
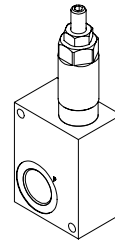
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000180	CPLN-080-DPNA-HN-086-N420	350	150-420	53
CP000026	CPLN-080-DPNA-HN-086-N350	350	100-350	42
CP000076	CPLN-080-DPNA-HN-086-N200	200	60-210	24
CP000077	CPLN-080-DPNA-HN-086-N100	100	25-100	13
CP000099	CPLN-080-DPNA-HN-086-N050	50	5-50	9

RELIEF VALVE IN BODY

**KPLN-080-DPNA**

DIRECT ACTING  
STABILIZED PISTON

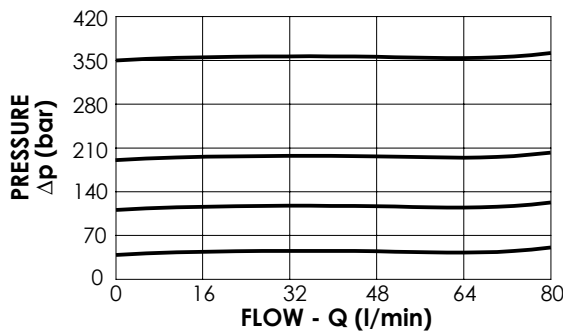
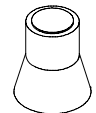


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	80 l/min
Manifold:	Aluminium
Weight:	0,7 kg

**SEALING CAP**

Ordering code:  
AT000021



**NOTES**

\*Codes available with steel manifold.

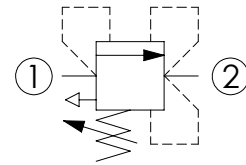
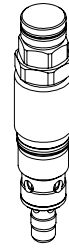
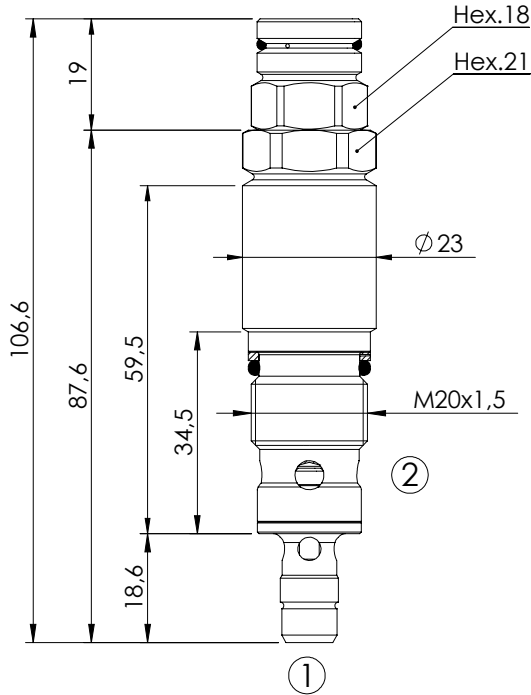
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000018	KPLN-080-DPNA-HN-G34-N350	P,T: G 3/4"	350	100-350	42
KP000070	KPLN-080-DPNA-HN-G34-N200	P,T: G 3/4"	200	60-210	24
KP000069	KPLN-080-DPNA-HN-G34-N100	P,T: G 3/4"	100	25-100	13
KP000098	KPLN-080-DPNA-HN-G34-N050	P,T: G 3/4"	50	5-50	9
KP000016	KPLN-080-DPNA-HN-G12-N350	P,T: G 1/2"	350	100-350	42
KP000090	KPLN-080-DPNA-HN-G12-N200	P,T: G 1/2"	200	60-210	24
KP000091	KPLN-080-DPNA-HN-G12-N100	P,T: G 1/2"	100	25-100	13
KP000099	KPLN-080-DPNA-HN-G12-N050	P,T: G 1/2"	50	5-50	9

RELIEF VALVE

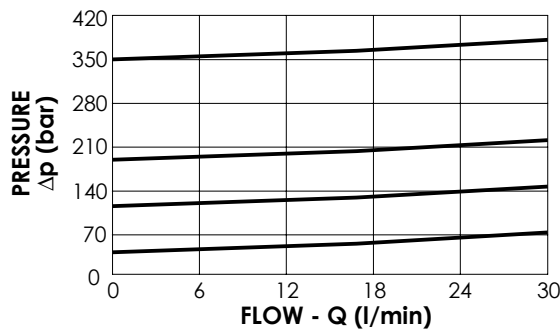
**CPLT-030-DPNA**

DIRECT ACTING  
STABILIZED PISTON  
COMPENSATED



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	30 l/min
Cavity:	VP000008
Weight:	0,2 kg



**NOTES**

Installation torque:	45-50 Nm
Seal kit:	RC700008

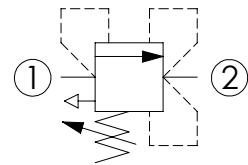
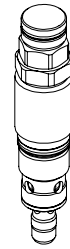
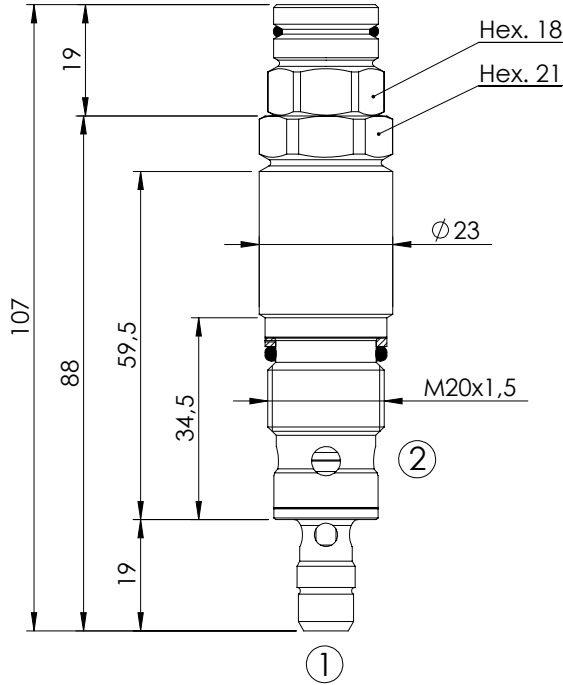
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000125	CPLT-030-DPNA-HN-008-N420	350	250-420	104
CP000078	CPLT-030-DPNA-HN-008-N350	350	100-350	91
CP000079	CPLT-030-DPNA-HN-008-N200	200	50-210	42
CP000080	CPLT-030-DPNA-HN-008-N100	100	30-100	20
CP000081	CPLT-030-DPNA-HN-008-N050	50	10-50	10

RELIEF VALVE

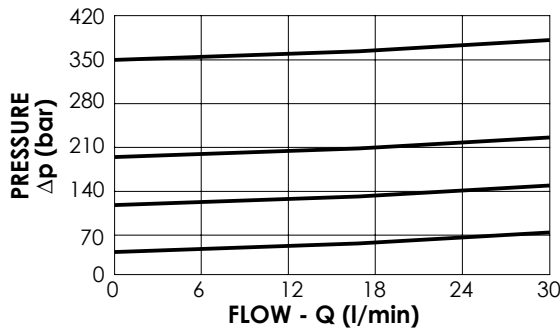
**CPLT-030-DHNA**

DIRECT ACTING COMPENSATED  
STABILIZED PISTON  
HARDENED SEAT



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	30 l/min
Cavity:	VP000008
Weight:	0,2 kg



**NOTES**

Installation torque:	45-50 Nm
Seal kit:	RC700008

**ORDERING CODES**

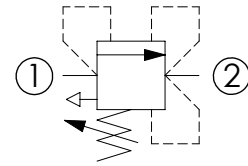
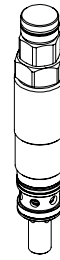
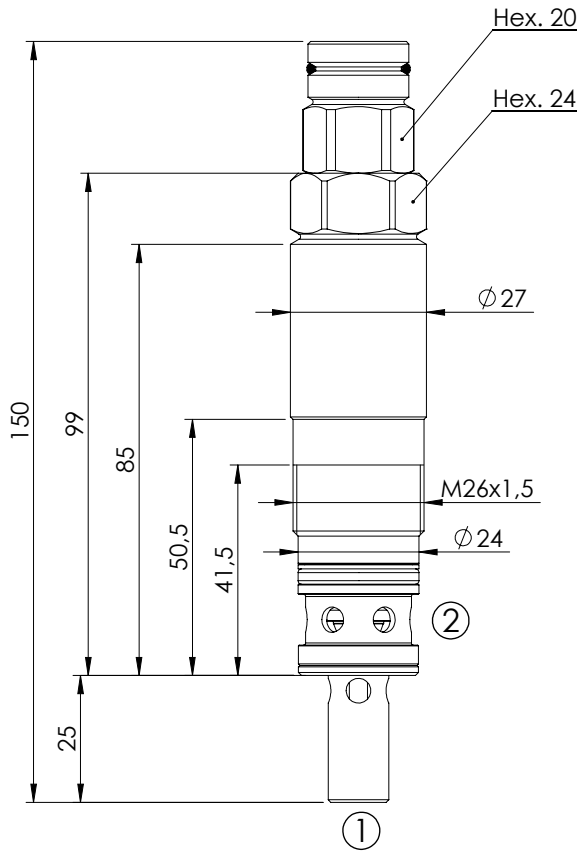
Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000127	CPLT-030-DHNA-HN-008-N420	350	250-420	104
CP000095	CPLT-030-DHNA-HN-008-N350	350	100-350	91
CP000096	CPLT-030-DHNA-HN-008-N200	200	50-210	42
CP000097	CPLT-030-DHNA-HN-008-N100	100	30-100	20
CP000098	CPLT-030-DHNA-HN-008-N050	50	10-50	10



RELIEF VALVE

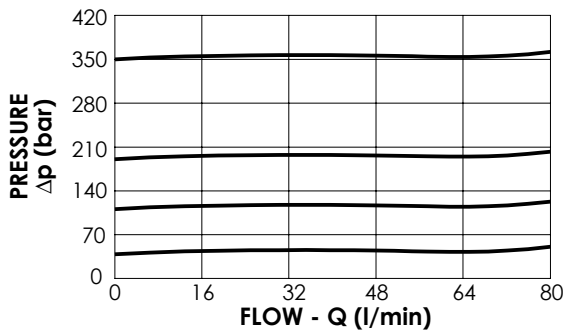
**CPLT-080-DHNA**

**DIRECT ACTING  
STABILIZED PISTON  
COMPENSATED**



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	80 l/min
Cavity:	VP000086
Weight:	0,41 kg



**NOTES**

Installation torque:	83 - 92 Nm
Seal kit:	RC700086

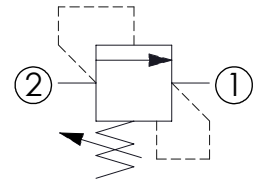
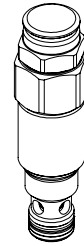
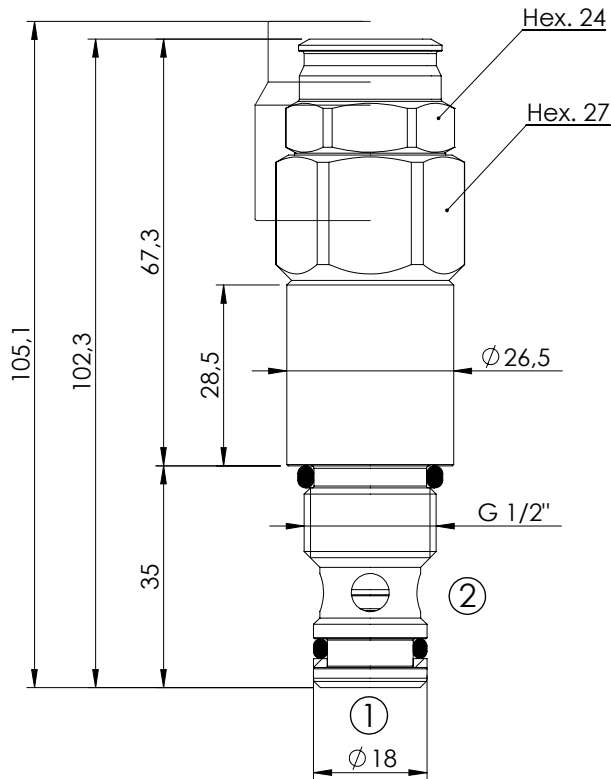
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000181	CPLT-080-DHNA-HN-086-N420	350	150-420	53
CP000130	CPLT-080-DHNA-HN-086-N350	350	100-350	42
CP000142	CPLT-080-DHNA-HN-086-N200	200	60-210	24
CP000143	CPLT-080-DHNA-HN-086-N100	100	25-100	13
CP000144	CPLT-080-DHNA-HN-086-N050	50	5-50	9

RELIEF VALVE

**CPLN-040-DHGD**

DIFFERENTIAL AREA  
POPPET TYPE

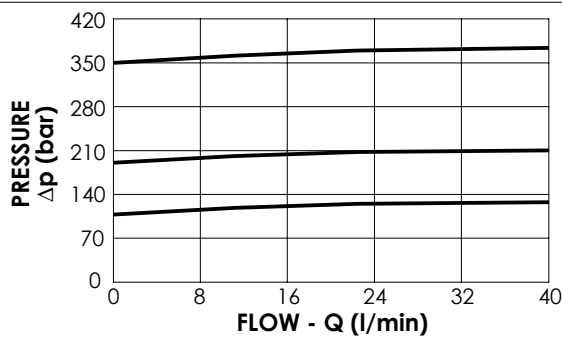
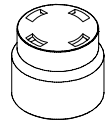


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Cavity:	VP000080
Weight:	0,31 kg

**SEALING CAP**

Ordering code:  
**PT000258**



**NOTES**

Installation torque:	95 - 105 Nm
Seal kit:	RC900080

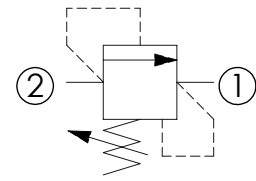
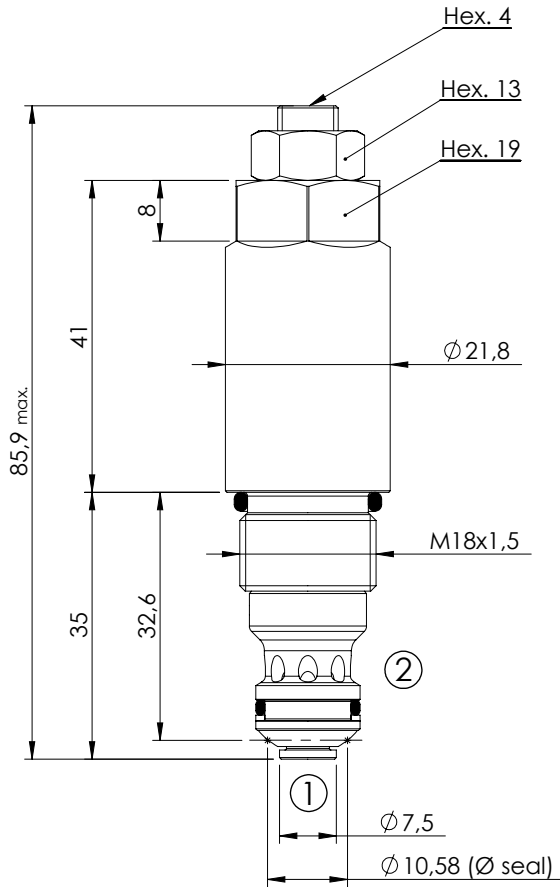
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000036	CPLN-040-DHGD-HN-080-N350	350	100-350	119
CP000088	CPLN-040-DHGD-HN-080-N200	200	50-210	63
CP000223	CPLN-040-DHGD-HN-080-N100	100	30-100	30

RELIEF VALVE

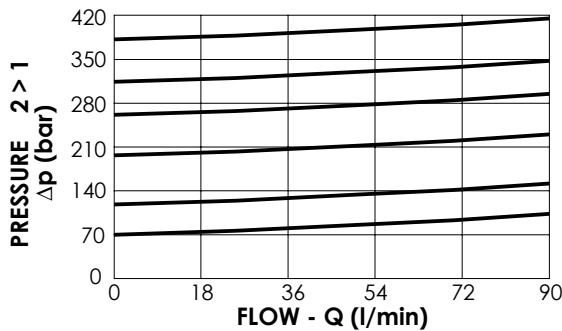
**CPLN-090-DHGA**

**DIRECT ACTING  
STABILIZED PISTON**



**SPECIFICATIONS**

Max. operating pressure:	380 bar
Rated flow:	90 l/min
Cavity:	VP000249
Weight:	0,15 kg



**NOTES**

Installation torque:	45 - 50 Nm
Seal kit:	RC900249

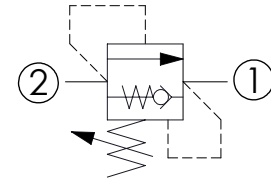
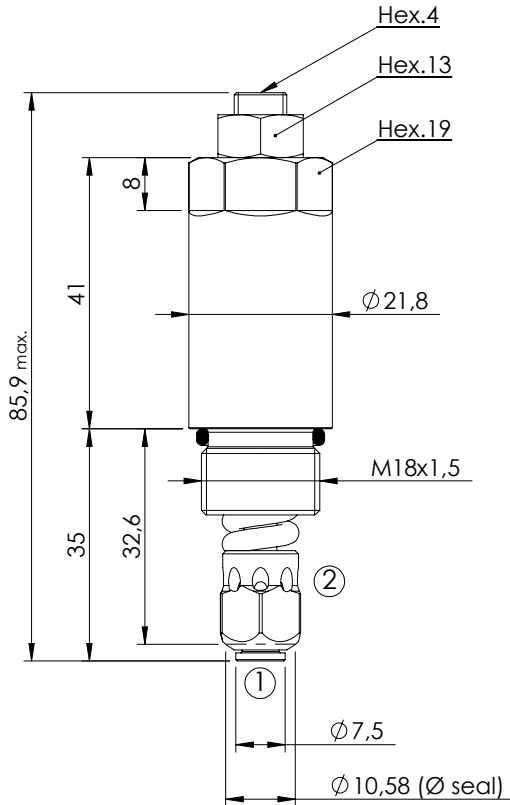
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000105	CPLN-090-DHGA-HN-249-N380	380	320 - 380	101
CP000101	CPLN-090-DHGA-HN-249-N320	320	270 - 320	67
CP000104	CPLN-090-DHGA-HN-249-N270	270	200 - 270	44
CP000103	CPLN-090-DHGA-HN-249-N200	200	120 - 200	30
CP000102	CPLN-090-DHGA-HN-249-N120	120	70 - 120	18
CP000120	CPLN-090-DHGA-HN-249-N070	70	10 - 70	8

RELIEF VALVE WITH REVERSE FREE FLOW

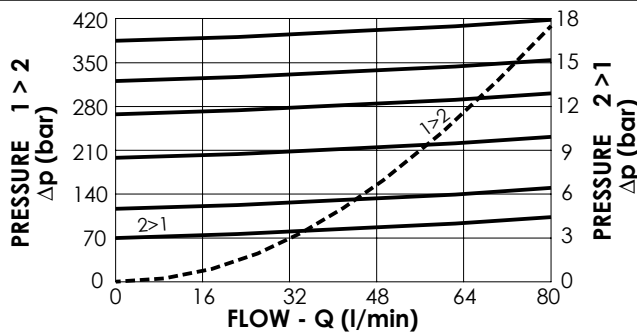
**CPAN-090-DHGA**

DIRECT ACTING  
STABILIZED PISTON



**SPECIFICATIONS**

Max. operating pressure:	380 bar
Rated flow:	90 l/min
Cavity:	VP000249
Weight:	0,15 kg



**NOTES**

Installation torque: Ch. 19 -	45/47 Nm
Seal kit:	RC900249

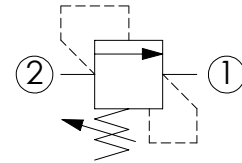
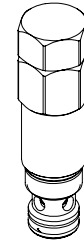
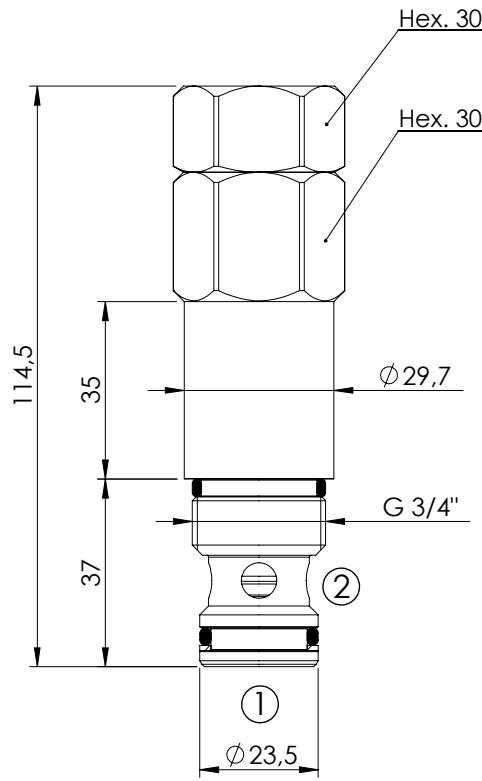
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000114	CPAN-090-DHGA-HN-249-N380	380	320 - 380	101
CP000113	CPAN-090-DHGA-HN-249-N320	320	270 - 320	67
CP000109	CPAN-090-DHGA-HN-249-N270	270	200 - 270	44
CP000112	CPAN-090-DHGA-HN-249-N200	200	120 - 200	30
CP000111	CPAN-090-DHGA-HN-249-N120	120	70 - 120	18
CP000122	CPAN-090-DHGA-HN-249-N070	70	10 - 70	8

RELIEF VALVE

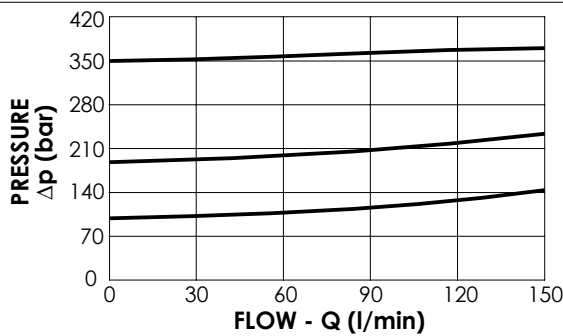
**CPLN-150-DHGD**

DIFFERENTIAL AREA  
POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Cavity:	VP000070
Weight:	0,47 kg



**NOTES**

Installation torque:	110 - 120 Nm
Seal kit:	RC700070

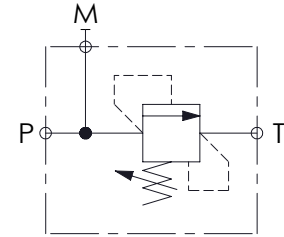
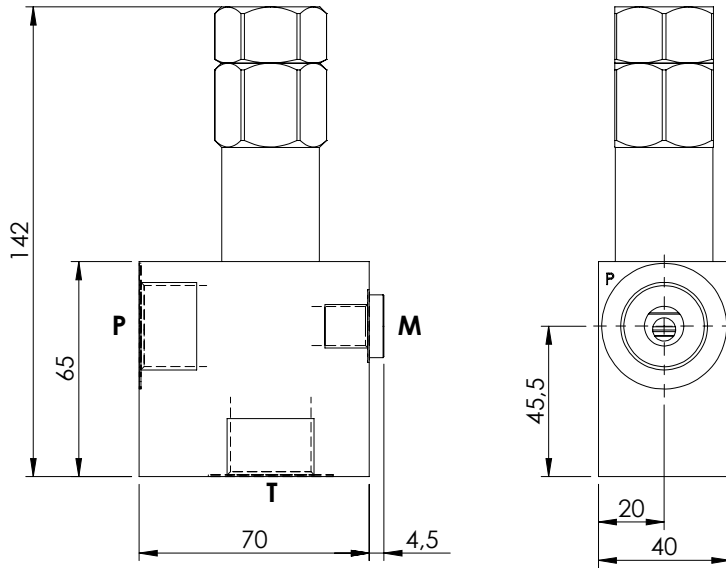
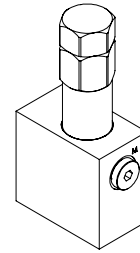
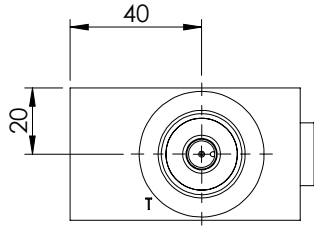
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000022	CPLN-150-DHGD-HN-070-N350	350	130-350	111
CP000018	CPLN-150-DHGD-HN-070-N200	200	70-210	73
CP000021	CPLN-150-DHGD-HN-070-N100	100	30-100	32

RELIEF VALVE IN BODY

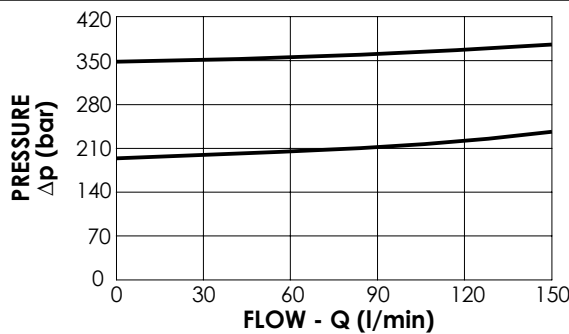
**KPLN-150-DHGD**

DIFFERENTIAL AREA  
POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Aluminium
Weight:	0,85 kg



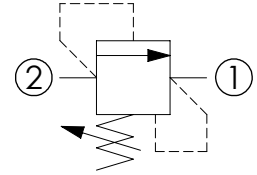
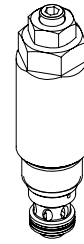
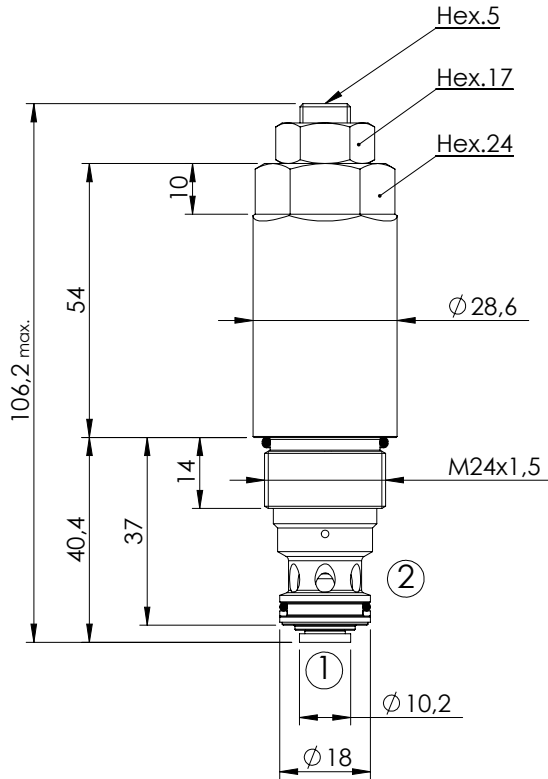
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000028	KPLN-150-DHGD-HN-G34-N350	P,T: G 3/4" M: G 1/4"	350	130-350	111
KP000057	KPLN-150-DHGD-HN-G34-N200	P,T: G 3/4" M: G 1/4"	200	70-210	73
KP000020	KPLN-150-DHGD-HN-G12-N350	P,T: G 1/2" M: G 1/4"	350	130-350	111
KP000058	KPLN-150-DHGD-HN-G12-N200	P,T: G 1/2" M: G 1/4"	200	70-210	73

RELIEF VALVE

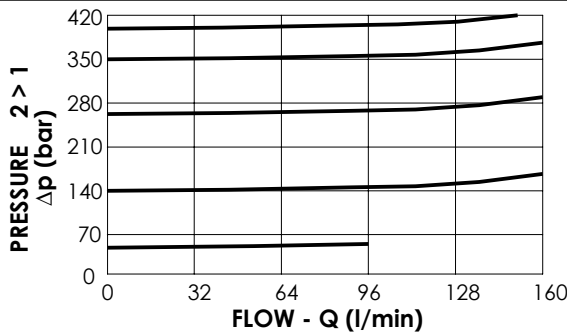
**CPLN-160-DHGA**

DIRECT ACTING  
STABILIZED PISTON



**SPECIFICATIONS**

Max. operating pressure:	400 bar
Rated flow:	160 l/min
Cavity:	VP000250
Weight:	0,33 kg



**NOTES**

Installation torque:	Ch. 24 - 48/50 Nm
Seal kit:	RC900250

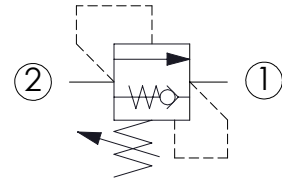
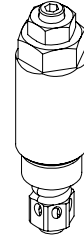
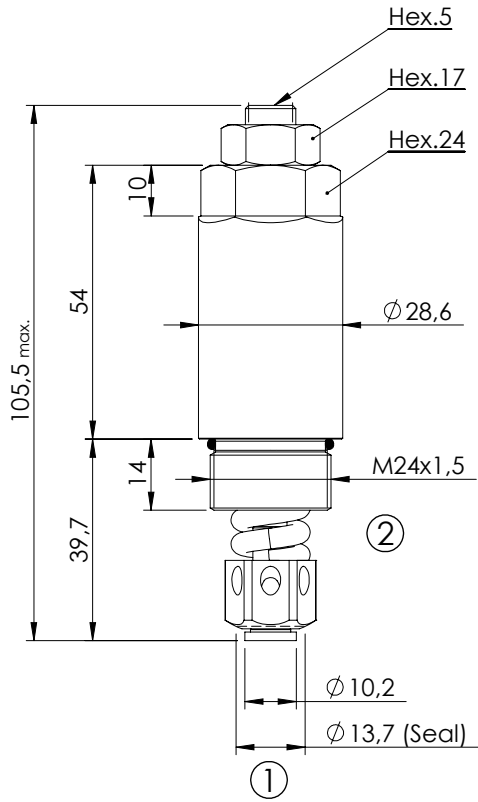
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000108	CPLN-160-DHGA-HN-250-N400	400	350 - 400	72
CP000107	CPLN-160-DHGA-HN-250-N350	350	270 - 350	58
CP000100	CPLN-160-DHGA-HN-250-N270	270	140 - 270	49
CP000106	CPLN-160-DHGA-HN-250-N140	140	90 - 140	36
CP000121	CPLN-160-DHGA-HN-250-N090	90	50 - 90	13

RELIEF VALVE WITH REVERSE FREE FLOW

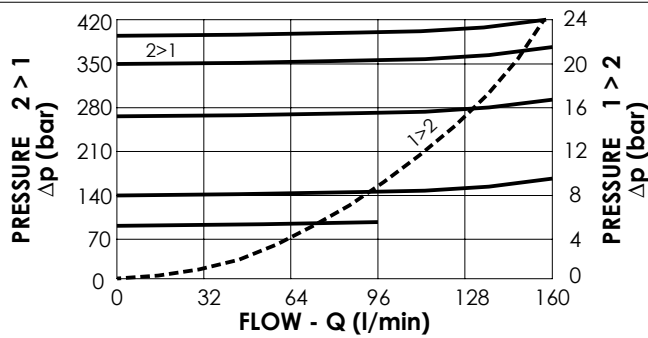
**CPAN-160-DHGA**

DIRECT ACTING  
STABILIZED PISTON



**SPECIFICATIONS**

Max. operating pressure:	400 bar
Rated flow:	160 l/min
Cavity:	VP000250
Weight:	0,32 kg



**NOTES**

Installation torque:	Ch. 24 - 48/50 Nm
Seal kit:	RC900250

**ORDERING CODES**

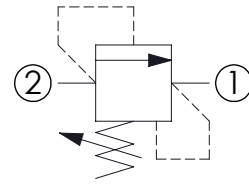
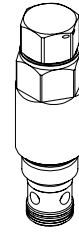
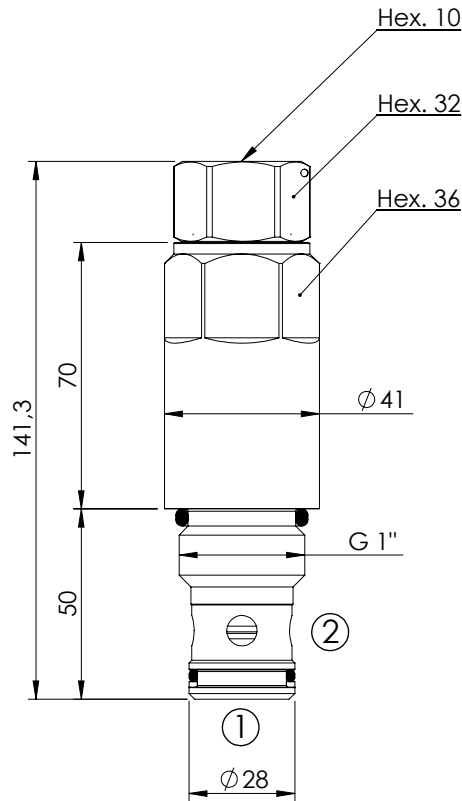
Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000117	CPAN-160-DHGA-HN-250-N400	400	350 - 400	72
CP000116	CPAN-160-DHGA-HN-250-N350	350	270 - 350	58
CP000110	CPAN-160-DHGA-HN-250-N270	270	140 - 270	49
CP000115	CPAN-160-DHGA-HN-250-N140	140	90 - 140	36
CP000123	CPAN-160-DHGA-HN-250-N090	90	50 - 90	13



RELIEF VALVE

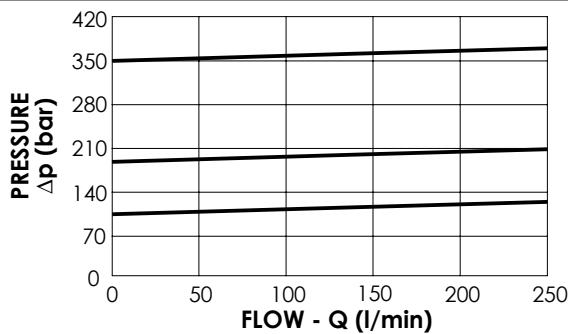
**CPLN-250-DHGD**

DIFFERENTIAL AREA  
POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	250 l/min
Cavity:	VP000154
Weight:	0,9 kg



**NOTES**

Installation torque:	230 - 280 Nm
Seal kit:	RC900154

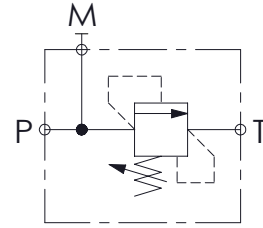
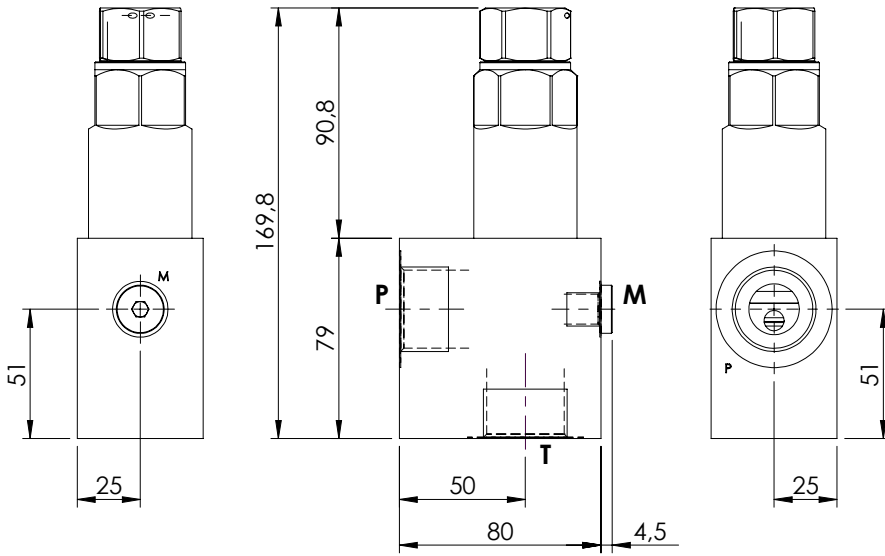
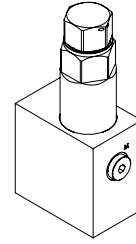
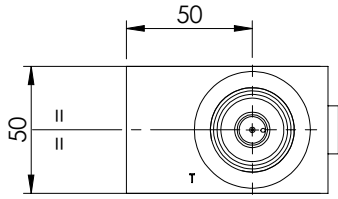
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000046	CPLN-250-DHGD-HN-154-N350	350	120-350	65
CP000119	CPLN-250-DHGD-HN-154-N200	200	50-200	38
CP000224	CPLN-250-DHGD-HN-154-N100	100	20-100	19

RELIEF VALVE

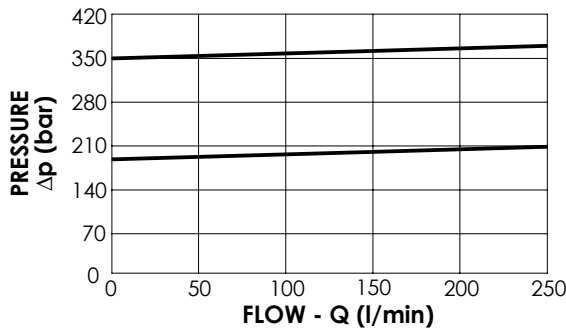
**KPLN-250-DHGD**

DIFFERENTIAL AREA  
POPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	250 l/min
Manifold:	Steel
Weight:	2,73 kg



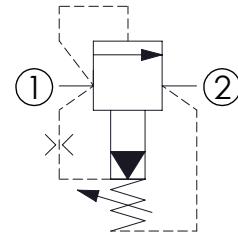
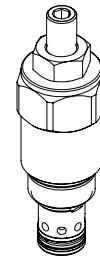
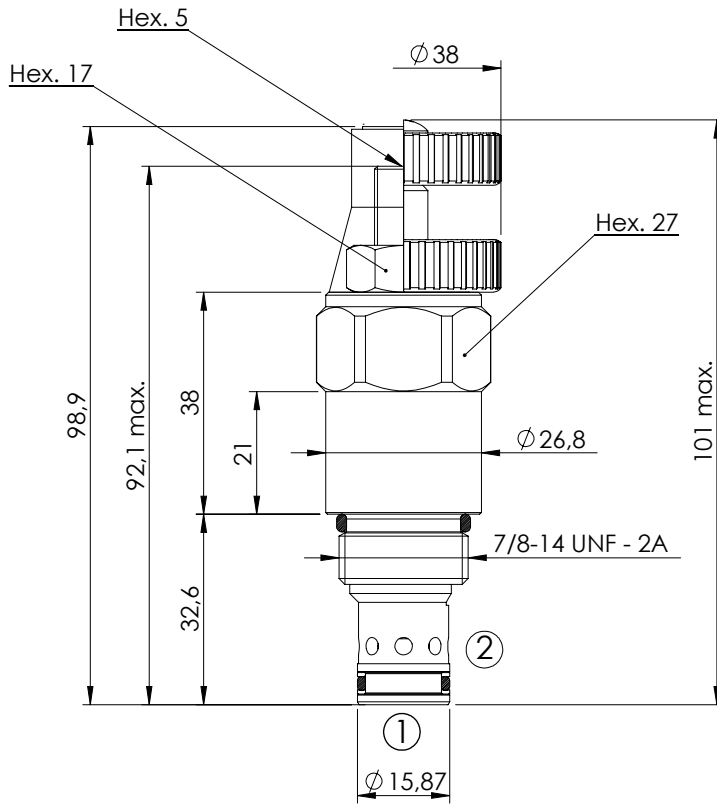
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000068	KPLN-250-DHGD-HN-G10-N350	P,T: G 1" ; M: G 1/4"	350	120-350	65
KP000103	KPLN-250-DHGD-HN-G10-N200	P,T: G 1" ; M: G 1/4"	200	50-200	38

RELIEF VALVE

**CPLN-120-PSNA**

PILOT OPERATED  
SPOOL TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	120 l/min
Cavity:	SAE-10-2N
Weight:	0,24 kg
Installation torque:	50 - 60 Nm
Leakage:	200 cm <sup>3</sup> @ 200 bar
Seal kit:	RB700082

**SEALING CAP**

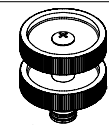
Ordering code:  
AT000021



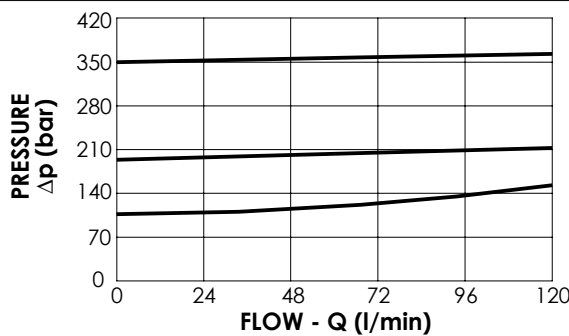
**OPTIONS**



Adjustment  
with Screw



Adjustment  
with Handknob



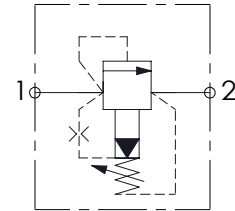
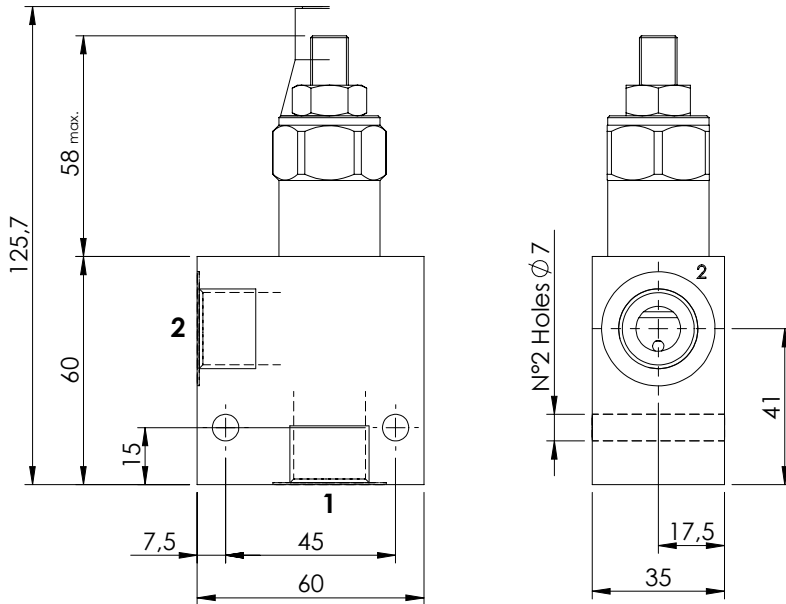
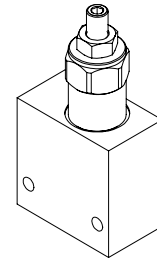
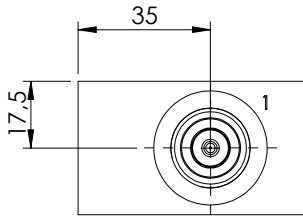
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)	Option
CP000009	CPLN-120-PSNA-HN-S10-N350	350	140-350	114	Adjustment with Screw
CP000060	CPLN-120-PSNA-HN-S10-N200	200	70-210	69	Adjustment with Screw
CP000059	CPLN-120-PSNA-HN-S10-N100	100	35-120	37	Adjustment with Screw
CP000064	CPLN-120-PSNA-VN-S10-N350	350	140-350	114	Adjustment with Handknob
CP000065	CPLN-120-PSNA-VN-S10-N200	200	70-210	69	Adjustment with Handknob
CP000066	CPLN-120-PSNA-VN-S10-N100	100	35-120	37	Adjustment with Handknob

RELIEF VALVE IN BODY

**KPLN-120-PSNA**

PILOT OPERATED  
SPOOL TYPE

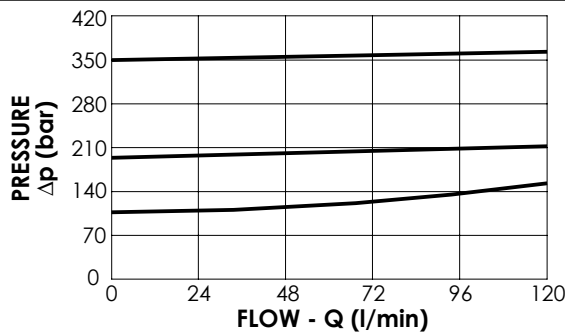
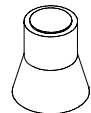


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	120 l/min
Manifold:	Aluminium
Weight:	0,49 kg
Leakage:	200 cm <sup>3</sup> @ 200 bar

**SEALING CAP**

Ordering code:  
**AT000021**



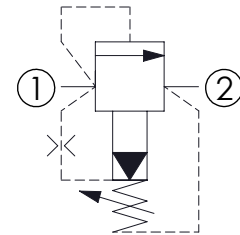
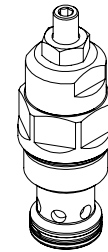
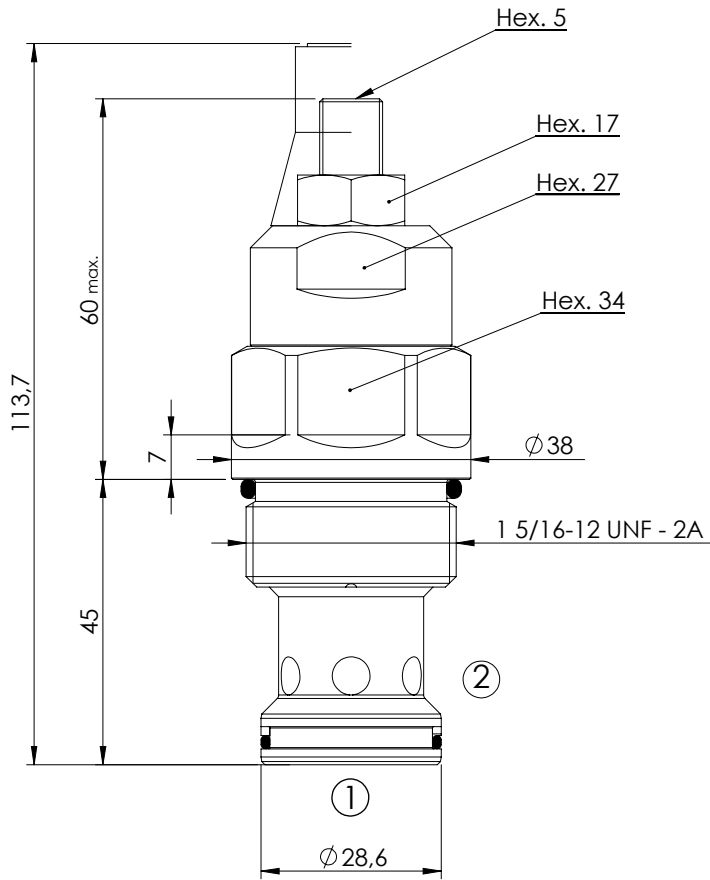
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000014	KPLN-120-PSNA-HN-G12-N350	P,T : G1/2"	350	140-350	114
KP000048	KPLN-120-PSNA-HN-G12-N200	P,T : G1/2"	200	70-210	69
KP000047	KPLN-120-PSNA-HN-G12-N100	P,T : G1/2"	100	35-120	37
KP000096	KPLN-120-PSNA-HN-G34-N350	P,T : G3/4"	350	140-350	114
KP000159	KPLN-120-PSNA-HN-G34-N200	P,T : G3/4"	200	70-210	69
KP000160	KPLN-120-PSNA-HN-G34-N100	P,T : G3/4"	100	35-120	37

RELIEF VALVE

**CPLN-300-PSNA**

PILOT OPERATED  
SPOOL TYPE

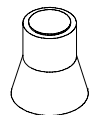


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	300 l/min
Cavity:	SAE-16-2N
Weight:	0,5 kg
Leakage:	350 cm <sup>3</sup> @ 200 bar

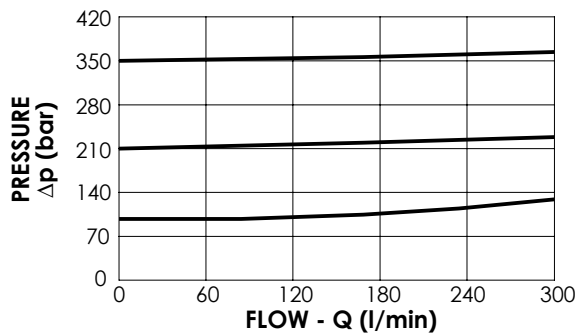
**SEALING CAP**

Ordering code:  
AT000021



**NOTES**

Installation torque:	150 - 180 Nm
Seal kit:	RA700084



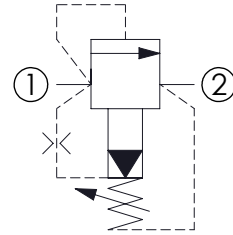
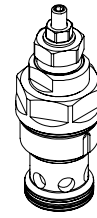
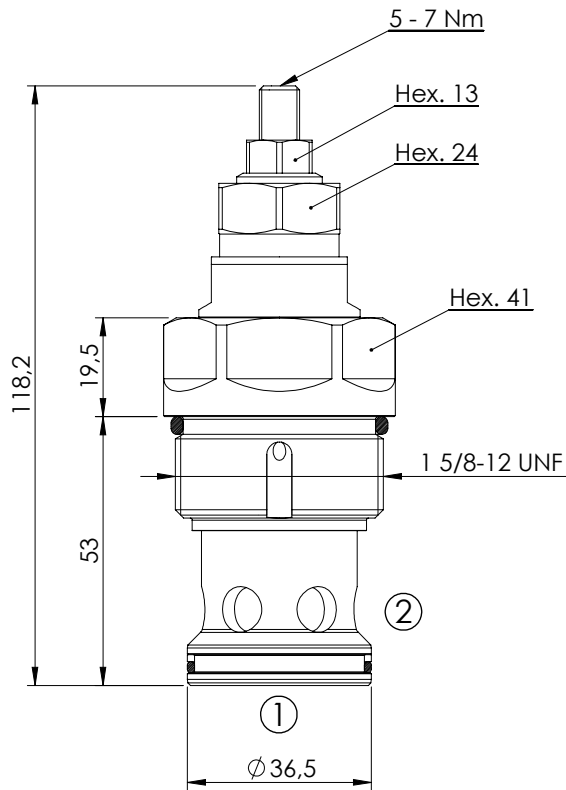
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000188	CPLN-300-PSNA-HN-S16-N350	350	140-350	114
CP000177	CPLN-300-PSNA-HN-S16-N200	200	70-210	69
CP000178	CPLN-300-PSNA-HN-S16-N100	100	35-120	37

RELIEF VALVE

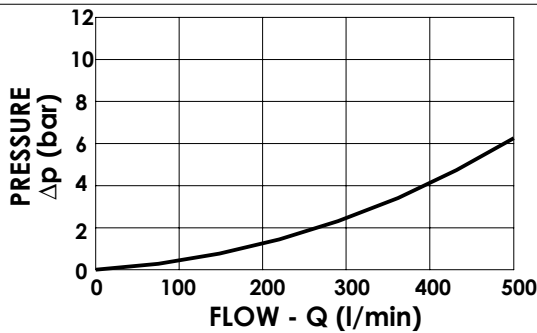
**CPLN-500-PHNA**

PILOTED OPERATED  
SPOOL TYPE



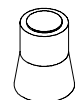
**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	500 l/min
Cavity:	SAE-20-2N
Weight:	0,7 kg
Installation torque:	230 - 250 Nm
Max. int. leakage:	400 cm <sup>3</sup> /min (@46 cst)
Seal kit:	RA900085



**SEALING CAP**

Ordering code:  
**AT000020**



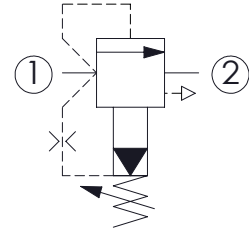
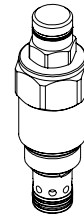
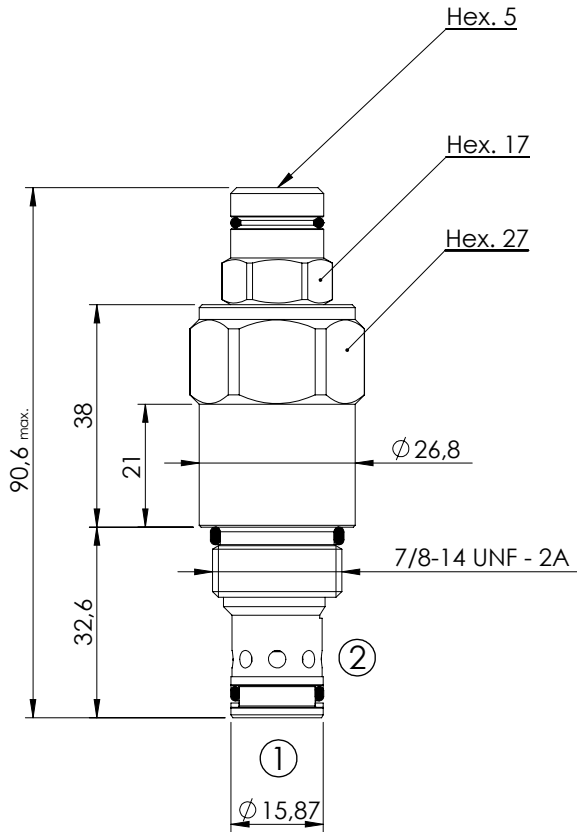
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000407	CPLN-500-PHNA-SN-S20-N350	350	140-350	142
CP000408	CPLN-500-PHNA-SN-S20-N200	200	90-210	87
CP000409	CPLN-500-PHNA-SN-S20-N100	100	35-110	47

RELIEF VALVE

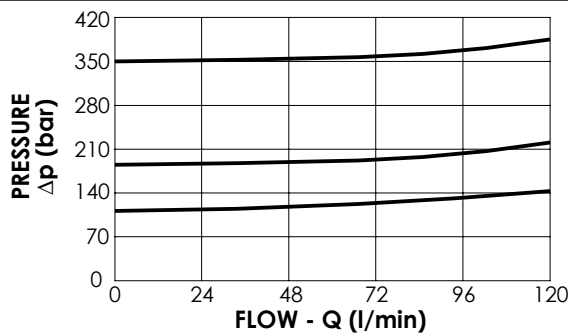
**CPLT-120-PSNA**

PILOT OPERATED  
SPOOL TYPE  
COMPENSATED



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	120 l/min
Cavity:	SAE-10-2N
Weight:	0,25 kg
Leakage:	200 cm <sup>3</sup> @ 200 bar



**NOTES**

Installation torque:	50 - 57 Nm
Seal kit:	RB700082

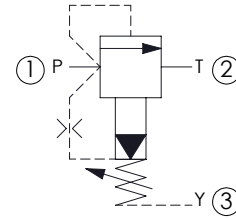
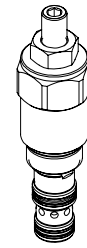
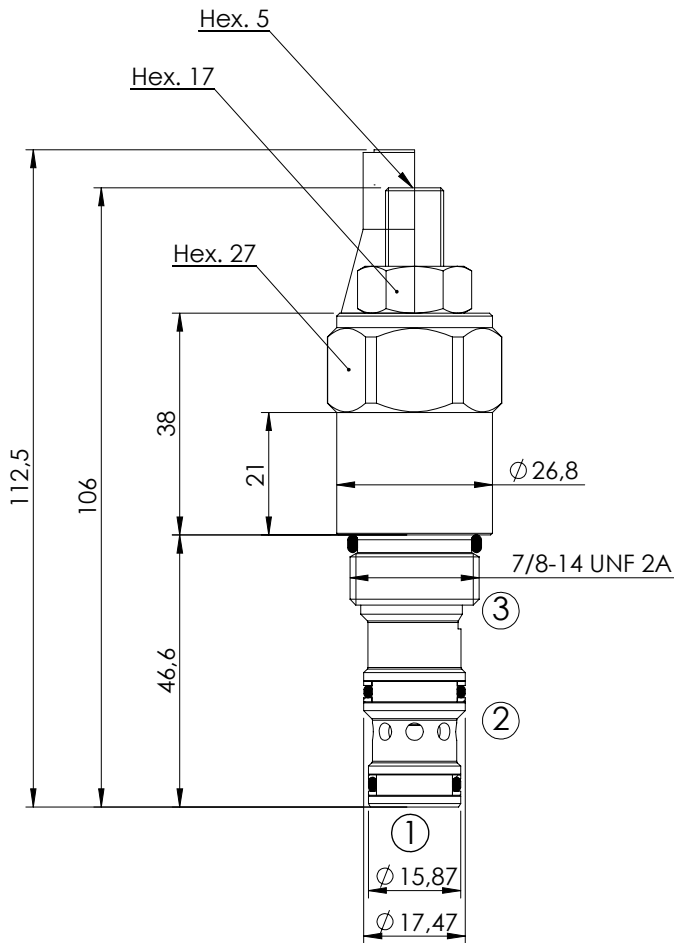
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000070	CPLT-120-PSNA-HN-S10-N350	350	140-350	114
CP000071	CPLT-120-PSNA-HN-S10-N200	200	70-210	69
CP000072	CPLT-120-PSNA-HN-S10-N100	100	35-120	37

RELIEF VALVE

**CPLV-120-PSNA**

PILOT OPERATED  
SPOOL TYPE  
SEPARATE TANK LINE



**SPECIFICATIONS**

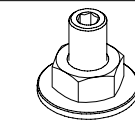
Max. operating pressure:	350 bar
Rated flow:	120 l/min
Cavity:	SAE-10-3N
Weight:	0,26 kg
Installation torque:	50 - 60 Nm
Leakage:	200 cm <sup>3</sup> @ 200 bar
Seal kit:	RB700092

**SEALING CAP**

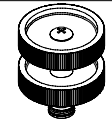
Ordering code:  
AT000021



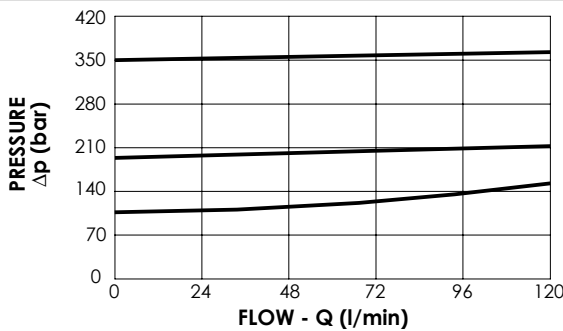
**OPTIONS**



Adjustment  
with Screw



Adjustment  
with Handknob



**ORDERING CODES**

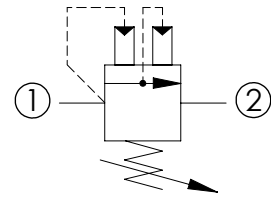
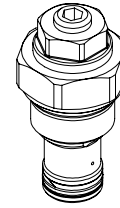
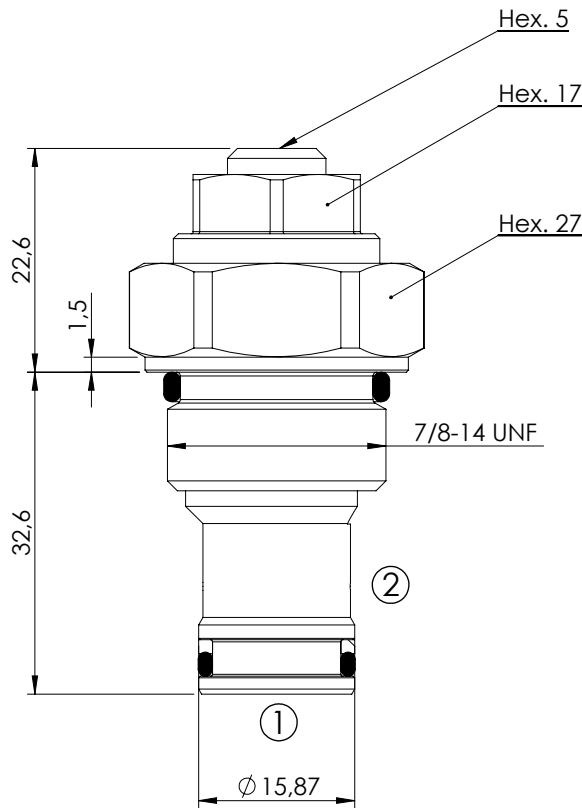
Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)	Option
CP000228	CPLV-120-PSNA-HN-S10-N350	350	140-350	114	Adjustment with Screw
CP000427	CPLV-120-PSNA-HN-S10-N200	200	70-210	69	Adjustment with Screw
CP000428	CPLV-120-PSNA-HN-S10-N100	100	35-120	37	Adjustment with Screw
CP000429	CPLV-120-PSNA-VN-S10-N350	350	140-350	114	Adjustment with Handknob
CP000430	CPLV-120-PSNA-VN-S10-N200	200	70-210	69	Adjustment with Handknob
CP000431	CPLV-120-PSNA-VN-S10-N100	100	35-120	37	Adjustment with Handknob



RELIEF VALVE

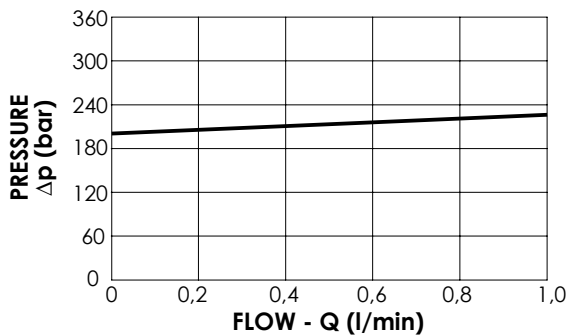
**CPSK-001-PPNA**

DIRECT ACTING  
POPPET TYPE  
KICK DOWN TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	1 l/min
Cavity:	SAE-10-2N
Weight:	0,13 kg



**NOTES**

Installation torque:	50 - 60 Nm
Seal kit:	RA700082

When the pressure exceeds the setting of the valve the poppet opens and unload the system to 10 bar. The valve closes when the flow is reduced to 0 l/min.

**ORDERING CODES**

Quick code	Description	Standard setting (bar, cracking press.)	Adjustment range (bar)	Pressure increase (bar/turn)
CP000227	CPSK-001-PPNA-SN-S10-N350	175	140-350	70,5



## SECTION 2



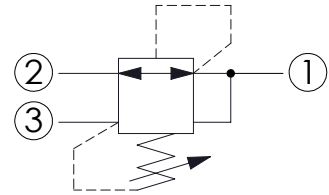
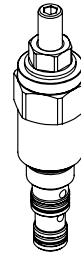
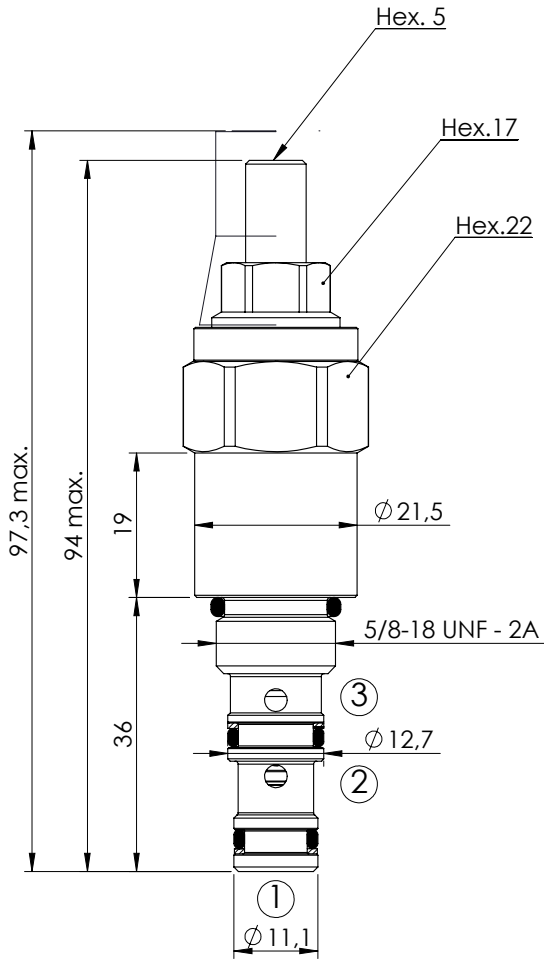
# PRESSURE REDUCING VALVES

Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	CPRL-007-DNNR	Direct acting, reducing and relieving	5	350	Cartridge	VP000016	2.01. <b>010</b>
	CPRL-030-DNNR	Direct acting, reducing and relieving	30	350	Cartridge	SAE-10-3N	2.01. <b>020</b>
	KPRL-030-DNNR	Direct acting, reducing and relieving	30	250	In line	G3/8"	2.02. <b>050</b>
	CPRL-060-PNNR	Pilot operated, reducing and relieving	60	350	Cartridge	SAE-10-3N	2.02. <b>030</b>
	CPRL-140-PNNR	Pilot operated, reducing and relieving	140	350	Cartridge	SAE-12-3N	2.02. <b>040</b>
	KPRL-060-DNNR	Pilot operated, reducing and relieving	60	250	In line	G3/8"	2.02. <b>050</b>
	CPRR-060-PNNR	Pilot operated, reducing	60	350	Cartridge	SAE-10-3N	2.03. <b>060</b>
	CPRR-140-PNNR	Pilot operated, reducing	140	350	Cartridge	SAE-12-3N	2.03. <b>070</b>
	KPRR-140-PNNR	Pilot operated, reducing	140	350	In line	G1/2"	2.03. <b>080</b>

**PRESSURE REDUCING AND RELIEVING**

**CPRL-007-DNNR**

**DIRECT ACTING  
SPOOL TYPE**

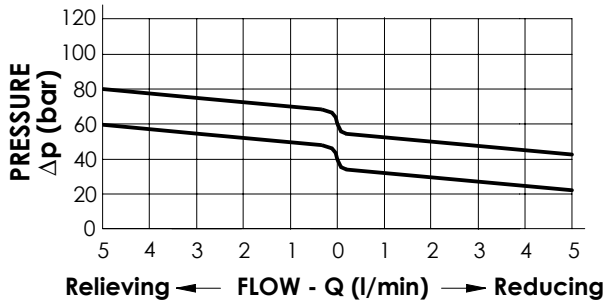


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	5 l/min
Cavity:	VP000016
Weight:	0,14 kg
Installation torque:	25 - 30 Nm
Leakage:	35 cm <sup>3</sup> @ 50 bar
Seal kit:	RC700016

**SEALING CAP**

Ordering code:  
**AT000020**



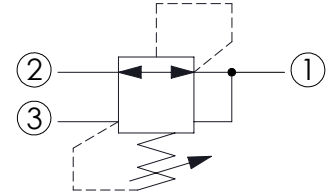
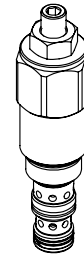
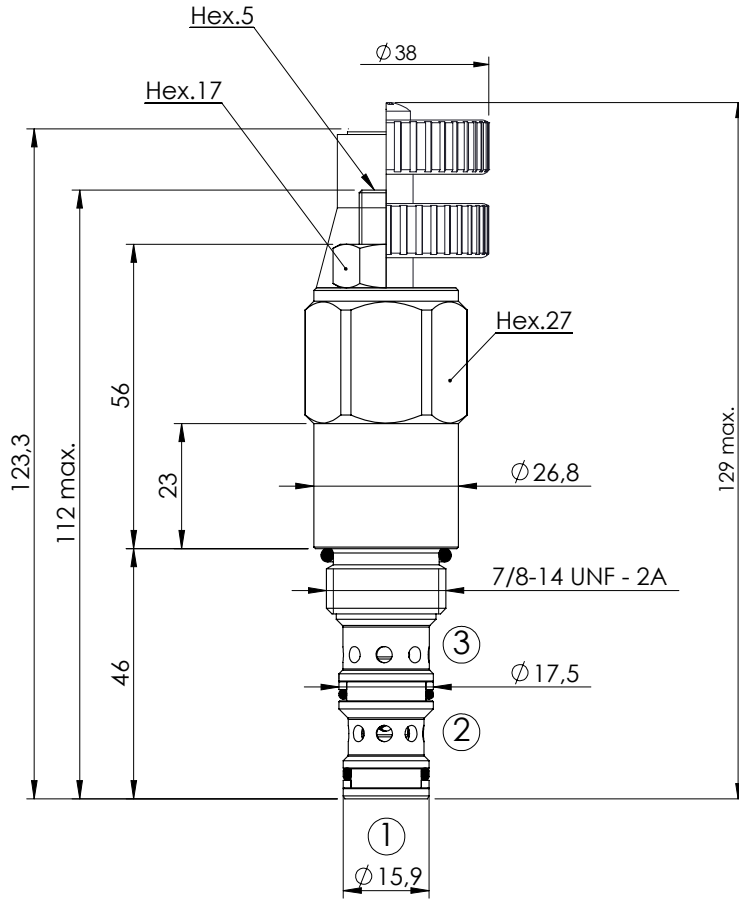
**ORDERING CODES**

Quick code	Description	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	
CR000001	CPRL-007-DNNR-HN-016-N060	40	10-60	6	
CR000025	CPRL-007-DNNR-HN-016-N085	60	25-85	9	

**PRESSURE REDUCING AND RELIEVING**

**CPRL-030-DNNR**

**DIRECT ACTING  
SPOOL TYPE**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	SAE-10-3N
Weight:	0,28 kg
Installation torque:	50 - 55 Nm
Leakage:	50 cm <sup>3</sup> @ 50 bar
Seal kit:	RA700092

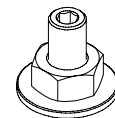
**SEALING CAP**

Ordering code:

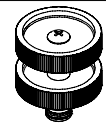
AT000021



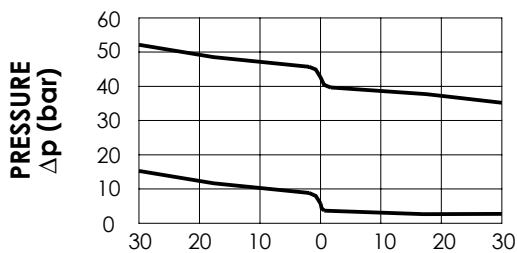
**OPTIONS**



Adjustment  
with Screw



Adjustment  
with Handknob



Relieving ← FLOW - Q (l/min) → Reducing

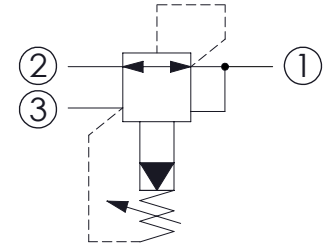
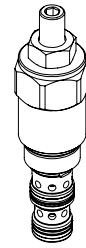
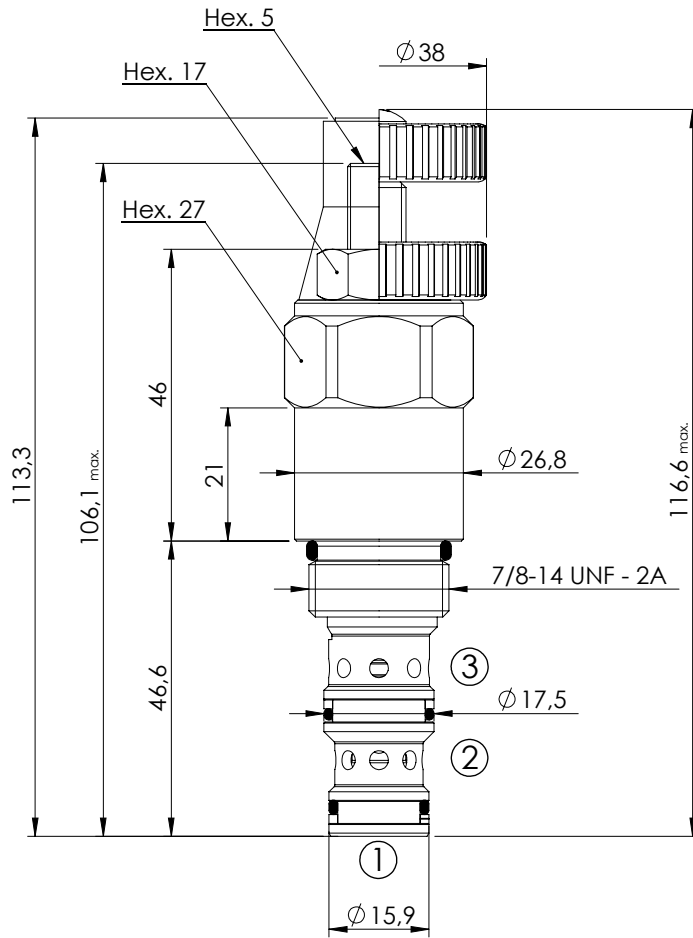
**ORDERING CODES**

Quick code	Description	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CR000002	CPRL-030-DNNR-HN-S10-N050	35	10-50	7	Adjustment with Screw
CR000008	CPRL-030-DNNR-VN-S10-N050	35	10-50	7	Adjustment with Handknob
CR000011	CPRL-030-DNNR-HN-S10-N015	5	1.5-15	1	Adjustment with Screw
CR000012	CPRL-030-DNNR-VN-S10-N015	5	1.5-15	1	Adjustment with Handknob

**PRESSURE REDUCING AND RELIEVING**

**CPRL-060-PNNR**

**PILOT OPERATED  
SPOOL TYPE**



**SPECIFICATIONS**

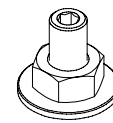
Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	SAE-10-3N
Weight:	0,26 kg
Installation torque:	50 - 55 Nm
Seal kit:	RA700092

**SEALING CAP**

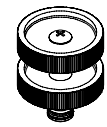
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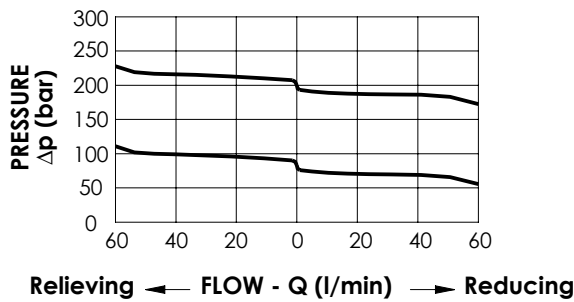
**OPTIONS**



Adjustment  
with Screw



Adjustment  
with Handknob



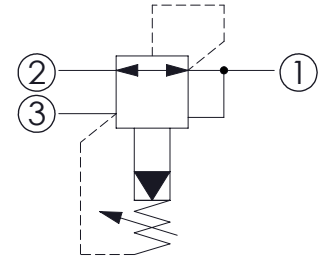
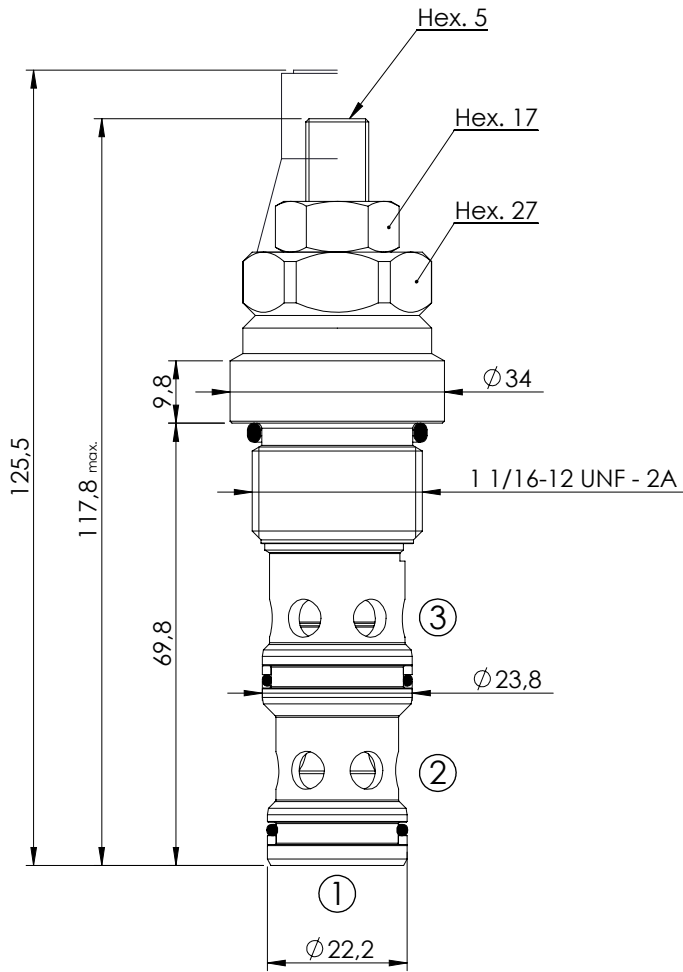
**ORDERING CODES**

Quick code	Description	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CR000006	CPRL-060-PNNR-HN-S10-N300	200	70-350	114	Adjustment with Screw
CR000007	CPRL-060-PNNR-VN-S10-N300	200	70-350	114	Adjustment with Handknob
CR000009	CPRL-060-PNNR-HN-S10-N100	80	20-110	37	Adjustment with Screw
CR000010	CPRL-060-PNNR-VN-S10-N100	80	20-110	37	Adjustment with Handknob

**PRESSURE REDUCING AND RELIEVING**

**CPRL-140-PNNR**

**PILOT OPERATED  
SPOOL TYPE**



**SPECIFICATIONS**

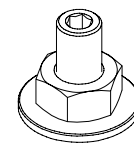
Max. operating pressure:	350 bar
Rated flow:	140 l/min
Cavity:	SAE-12-3N
Weight:	0,34 kg
Installation torque:	80 - 92 Nm
Seal kit:	RA700093

**SEALING CAP**

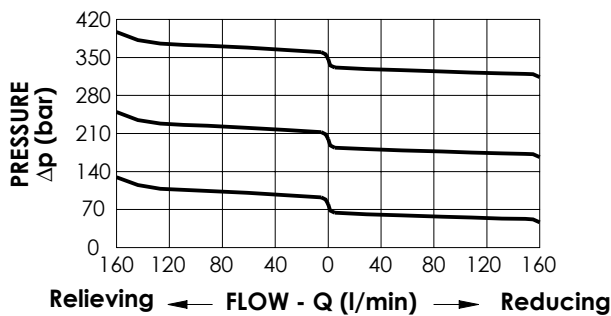
Ordering code:  
AT000021



**OPTIONS**



Adjustment  
with Screw



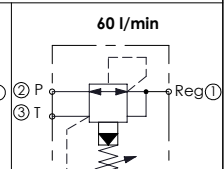
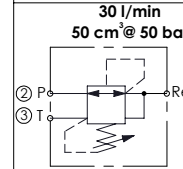
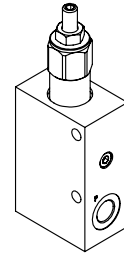
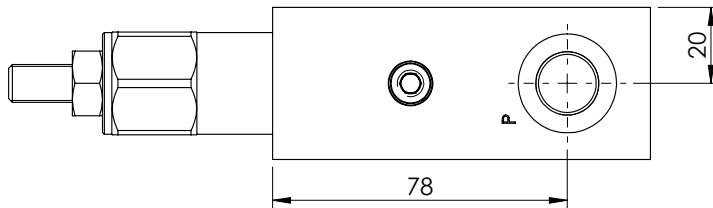
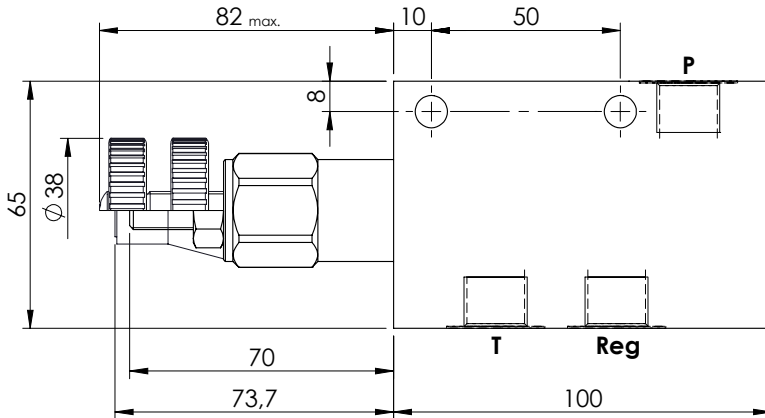
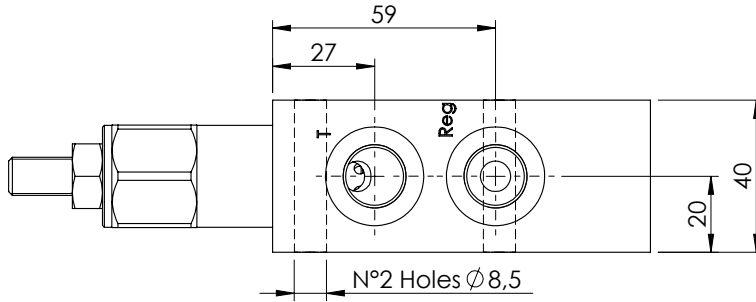
**ORDERING CODES**

Quick code	Description	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CR000020	CPRL-140-PNNR-HN-S12-N350	300	140-350	114	Adjustment with Screw
CR000019	CPRL-140-PNNR-HN-S12-N200	200	70-250	69	Adjustment with Screw
CR000018	CPRL-140-PNNR-HN-S12-N100	100	10-140	37	Adjustment with Screw

**PRESSURE REDUCING AND RELIEVING IN BODY**

**KPRL-030-DNNR**

**DIRECT/PILOT ACTING  
SPOOL TYPE**



KR00011  
KR00012  
KR00013  
KR00014

KR00015  
KR00016

**SPECIFICATIONS**

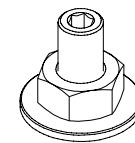
Max. operating pressure:	250 bar
Rated flow:	30 l/min - 60 l/min
Cavity:	SAE-10-3N
Weight:	0,87 Kg
Leakage direct:	50cm <sup>3</sup> @ 50 bar
Manifold:	Aluminium

**SEALING CAP**

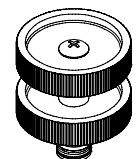
Ordering code:  
AT000021



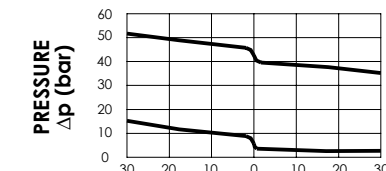
**OPTIONS**



Adjustment with Screw

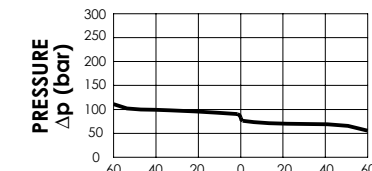


Adjustment with Handknob



Relieving ← FLOW - Q (l/min) → Reducing

KR00011  
KR00012  
KR00013  
KR00014



Relieving ← FLOW - Q (l/min) → Reducing

KR00015  
KR00016

**ORDERING CODES**

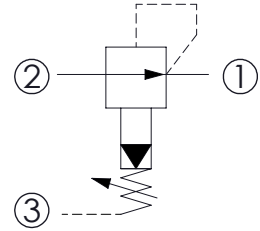
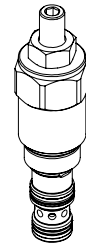
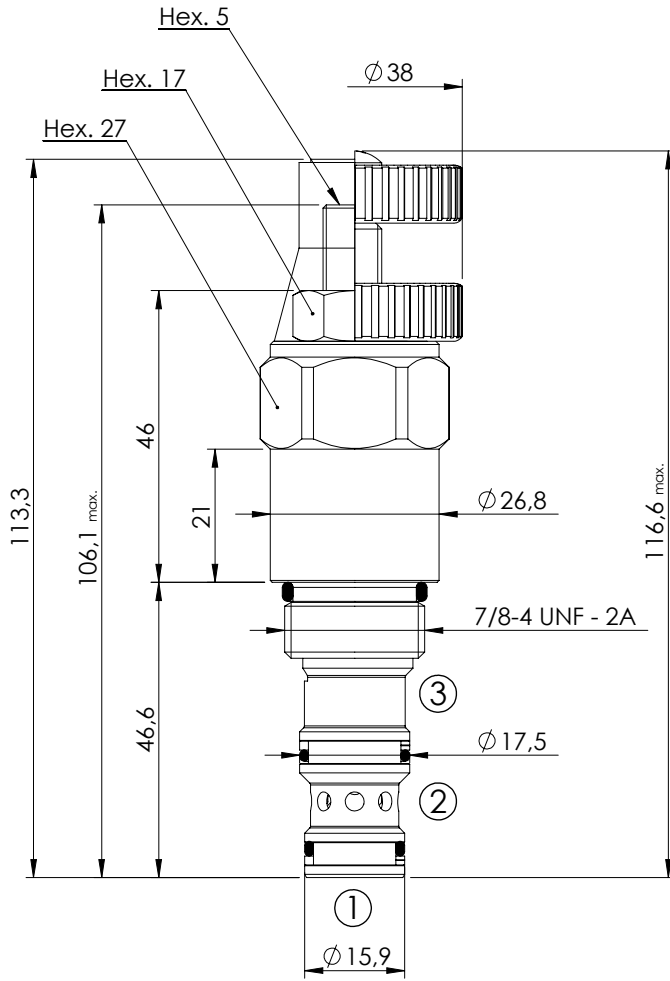
Quick code	Description	Ports	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
KR00011	KPRL-030-DNNR-HN-G38-N250	G 3/8"	5	1.5-15	1.6	Adjustment with Screw
KR00012	KPRL-030-DNNR-VN-G38-N250	G 3/8"	5	1.5-15	1.6	Adjustment with Handknob
KR00013	KPRL-030-DNNR-HN-G38-N250	G 3/8"	35	10-50	7	Adjustment with Screw
KR00014	KPRL-030-DNNR-VN-G38-N250	G 3/8"	35	10-50	7	Adjustment with Handknob
KR00015	KPRL-060-PNNR-HN-G38-N250	G 3/8"	80	20-110	37	Adjustment with Screw
KR00016	KPRL-060-PNNR-VN-G38-N250	G 3/8"	80	20-110	37	Adjustment with Handknob



**PRESSURE REDUCING**

**CPRR-060-PNNR**

**PILOT OPERATED  
SPOOL TYPE**



**SPECIFICATIONS**

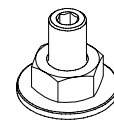
Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	SAE-10-3N
Weight:	0,26 kg
Installation torque:	45 - 60 Nm
Seal kit:	RA700092

**SEALING CAP**

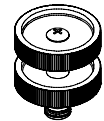
Ordering code:  
**AT000021**



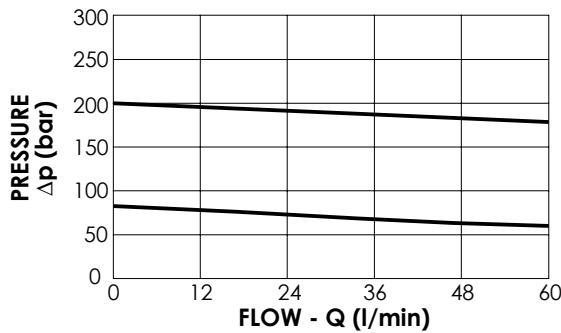
**OPTIONS**



**Adjustment  
with Screw**



**Adjustment  
with Handknob**



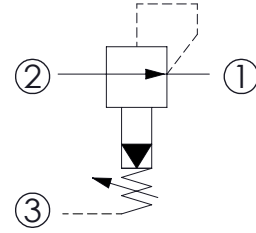
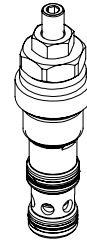
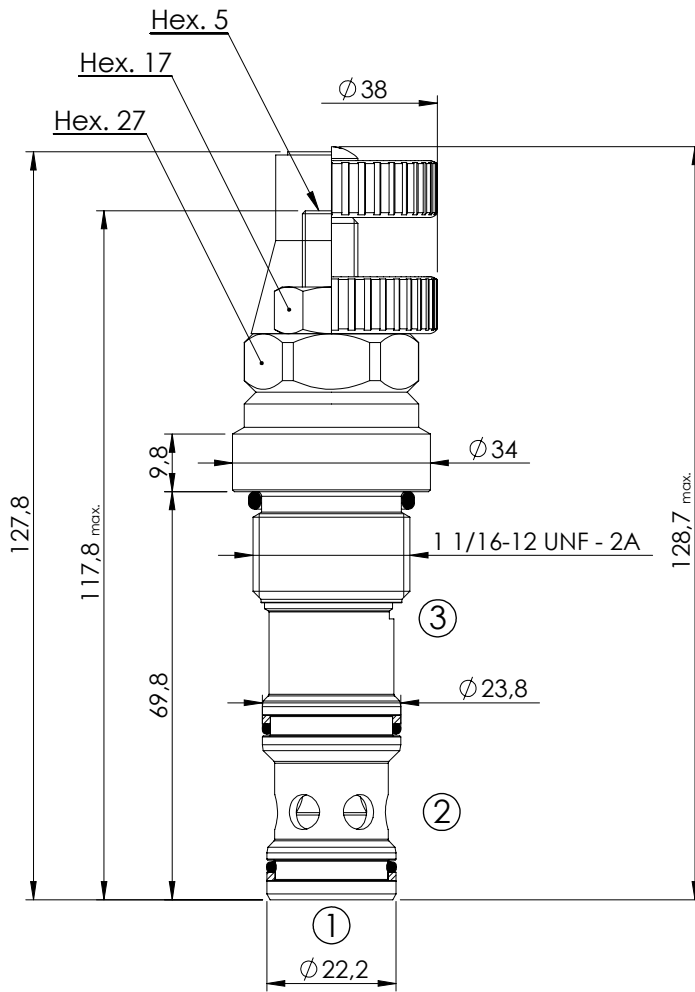
**ORDERING CODES**

Quick code	Description	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CR000022	CPRR-060-PNNR-HN-S10-N300	200	70-350	114	Adjustment with Screw
CR000023	CPRR-060-PNNR-VN-S10-N300	200	70-350	114	Adjustment with Handknob
CR000024	CPRR-060-PNNR-HN-S10-N100	80	20-110	37	Adjustment with Screw
CR000021	CPRR-060-PNNR-VN-S10-N100	80	20-110	37	Adjustment with Handknob

**PRESSURE REDUCING**

**CPRR-140-PNNR**

**PILOT OPERATED  
SPOOL TYPE**



**SPECIFICATIONS**

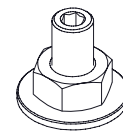
Max. operating pressure:	350 bar
Rated flow:	140 l/min
Cavity:	SAE-12-3N
Weight:	0,35 kg
Installation torque:	80 - 92 Nm
Seal kit:	RA700093

**SEALING CAP**

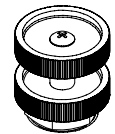
Ordering code:  
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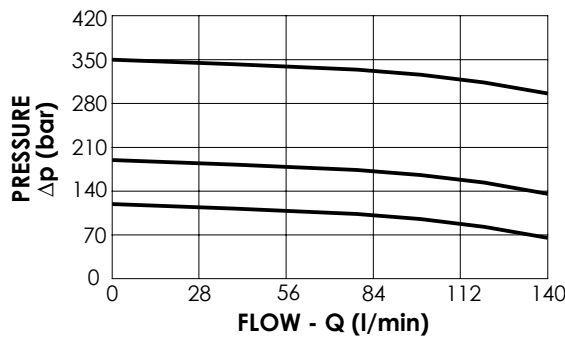
**OPTIONS**



Adjustment  
with Screw



Handknob  
and locknut



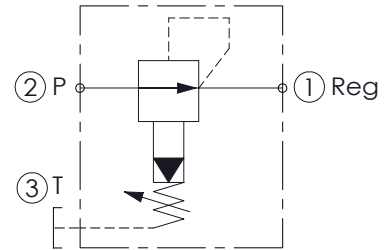
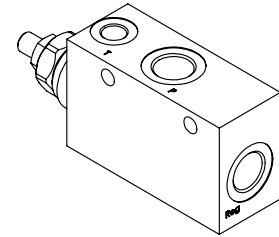
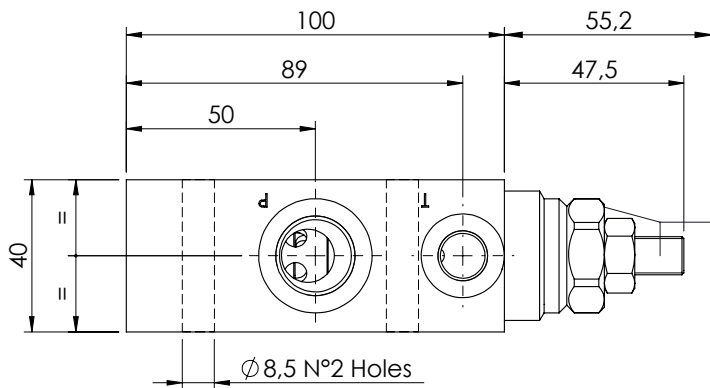
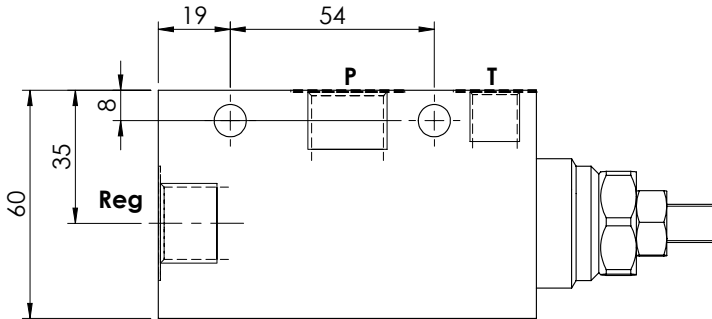
**ORDERING CODES**

Quick code	Description	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CR000017	CPRR-140-PNNR-HN-S12-N350	300	140-350	114	Adjustment with Screw
CR000030	CPRR-140-PNNR-VN-S12-N350	300	140-350	114	Adjustment with Handknob
CR000016	CPRR-140-PNNR-HN-S12-N200	200	70-210	69	Adjustment with Screw
CR000027	CPRR-140-PNNR-VN-S12-N200	200	70-210	69	Adjustment with Handknob
CR000015	CPRR-140-PNNR-HN-S12-N100	100	10-120	37	Adjustment with Screw
CR000031	CPRR-140-PNNR-VN-S12-N100	100	10-120	37	Adjustment with Handknob

**PRESSURE REDUCING IN BODY**

**KPRR-140-PNNR**

**PILOT OPERATED  
SPOOL TYPE**

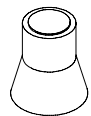


**SPECIFICATIONS**

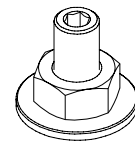
Max. operating pressure:	250 bar
Rated flow:	140 l/min
Cavity:	SAE-12-3N
Weight:	0.8 kg
Manifold:	Aluminium

**SEALING CAP**

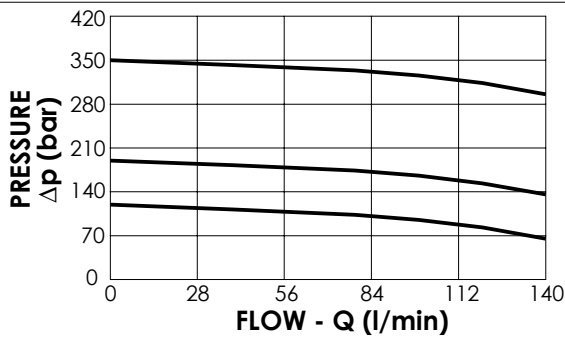
Ordering code:  
**AT000021**



**OPTIONS**



**Adjustment  
with Screw**



**ORDERING CODES**

Quick code	Description	Ports	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
KR000017	KPRR-140-PNNR-HN-G12-N350	P-Reg : G 1/2" T : G 1/4"	300	140-350	114	Adjustment with Screw
KR000019	KPRR-140-PNNR-HN-G12-N200	P-Reg : G 1/2" T : G 1/4"	200	70-210	69	Adjustment with Screw
KR000018	KPRR-140-PNNR-HN-G12-N100	P-Reg : G 1/2" T : G 1/4"	100	10-120	37	Adjustment with Screw



**SECTION 3**

**SEQUENCE VALVES**

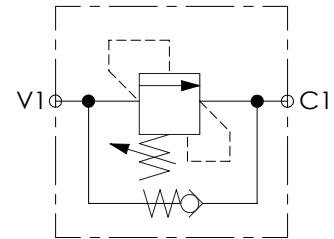
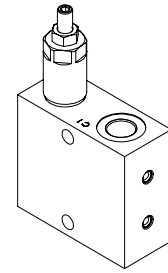
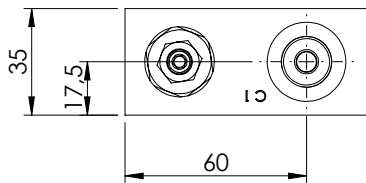
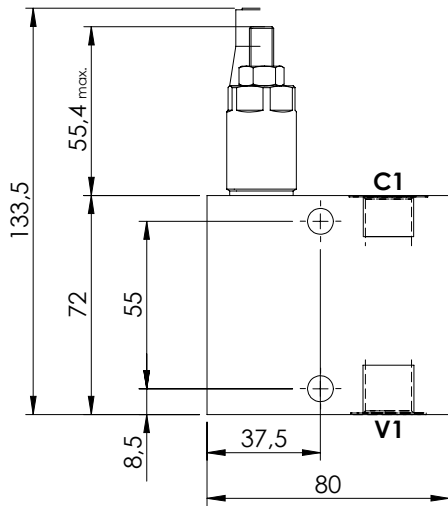
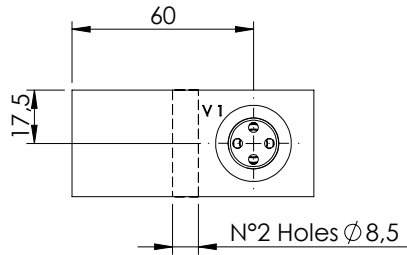


Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	KPSN-030-DPNA	Direct acting, stabilized piston, not compensated	30	350	In line	G3/8"	3.01. <b>010</b>
	KPSN-030-DPNA	Direct acting, stabilized piston, not compensated	30	350	In line	G1/2"	3.01. <b>020</b>
	CPSN-060-DPGD	Direct acting, with anti-cavitation	60	420	Sleve	G3/8"	3.01. <b>030</b>
	KPST-030-DPNA	Direct acting, stabilized piston, compensated	30	350	In line	G3/8"	3.02. <b>040</b>
	KPST-030-DPNA	Direct acting, stabilized piston, compensated	30	350	In line	G1/2"	3.02. <b>050</b>
	CPST-060-DHLD	Differential, compensated	60	350	Sleve	G3/8"	3.02. <b>060</b>
	CPST-100-DHLD	Differential, compensated	100	350	Sleve	G1/2"	3.02. <b>070</b>
	KPEN-020-DPLD	Direct acting, solenoid by-pass	20	350	In line	G1/4"	3.03. <b>080</b>

SEQUENCE VALVE IN BODY

**KPSN-030-DPNA**

**DIRECT ACTING  
STABILIZED PISTON  
NOT COMPENSATED**

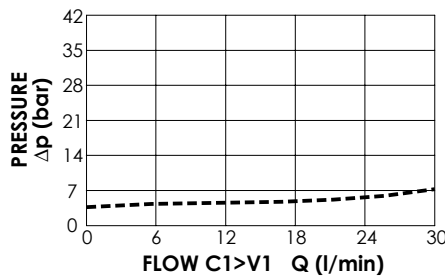
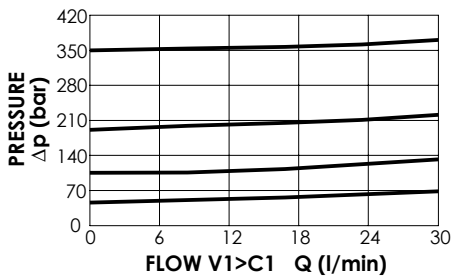
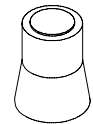


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,65 kg

**SEALING CAP**

Ordering code:  
**AT000020**



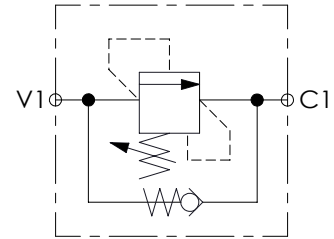
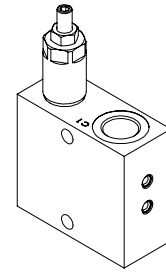
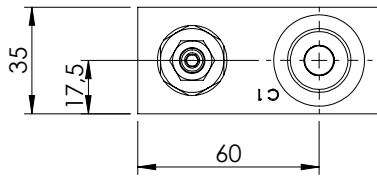
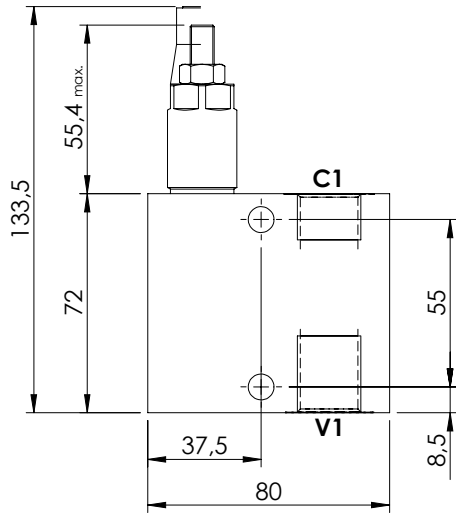
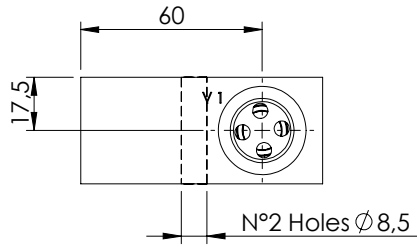
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000036	KPSN-030-DPNA-HN-G38-N350	C1, V1: G 3/8"	350	100-350	91
KP000033	KPSN-030-DPNA-HN-G38-N200	C1, V1: G 3/8"	200	50-210	42
KP000035	KPSN-030-DPNA-HN-G38-N100	C1, V1: G 3/8"	100	30-100	20
KP000034	KPSN-030-DPNA-HN-G38-N050	C1, V1: G 3/8"	50	10-50	10

SEQUENCE VALVE IN BODY

**KPSN-030-DPNA**

**DIRECT ACTING  
STABILIZED PISTON  
NOT COMPENSATED**

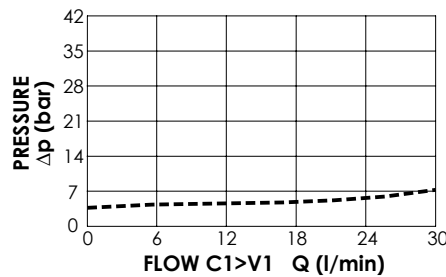
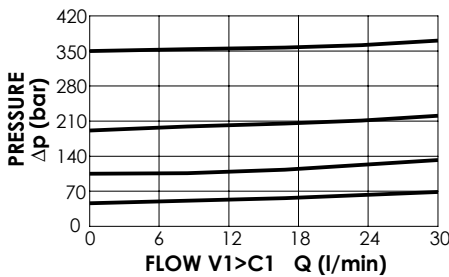
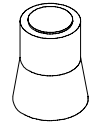


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,64 kg

**SEALING CAP**

Ordering code:  
AT000020



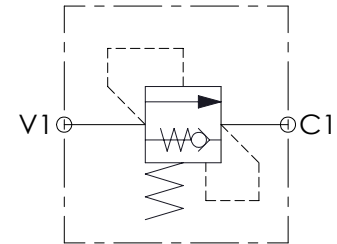
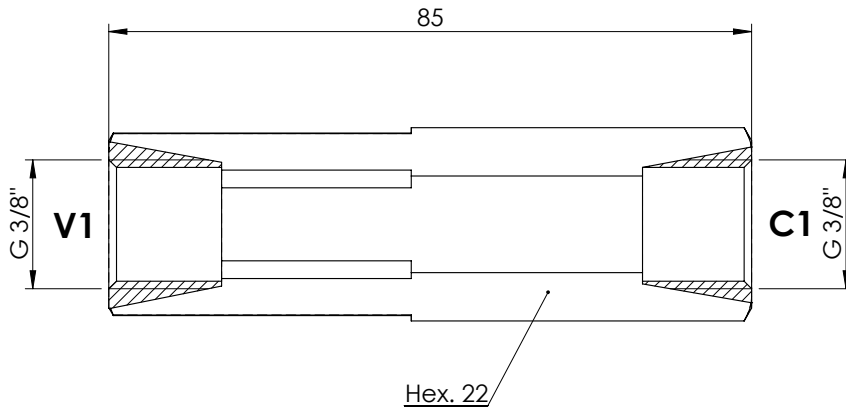
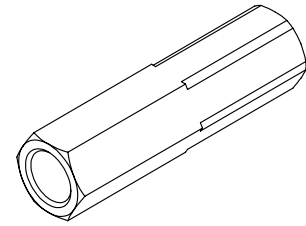
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000061	KPSN-030-DPNA-HN-G12-N350	C1, V1: G 1/2"	350	100-350	91
KP000062	KPSN-030-DPNA-HN-G12-N200	C1, V1: G 1/2"	200	50-210	42
KP000060	KPSN-030-DPNA-HN-G12-N100	C1, V1: G 1/2"	100	30-100	20
KP000063	KPSN-030-DPNA-HN-G12-N050	C1, V1: G 1/2"	50	10-50	10

SEQUENCE SLEEVE VALVE

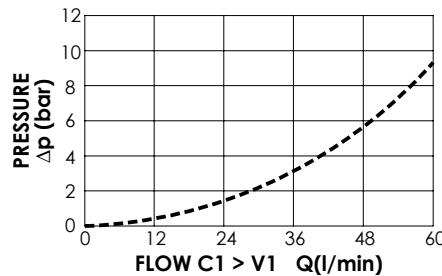
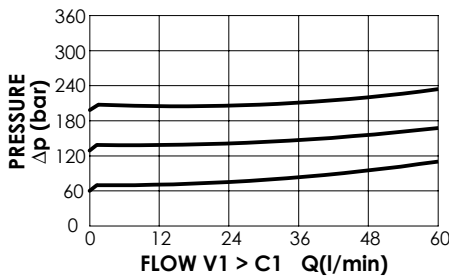
**CPSN-060-DPGD**

DIRECT ACTING  
WITH ANTI-CAVITATION  
POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Ports:	G 3/8"
Weight:	0.19 kg
Leakage:	1 cm <sup>3</sup> /min to 80% of nominal set point
Manifold:	Steel body



**ORDERING CODES**

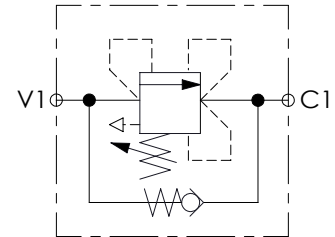
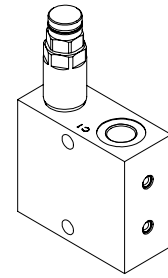
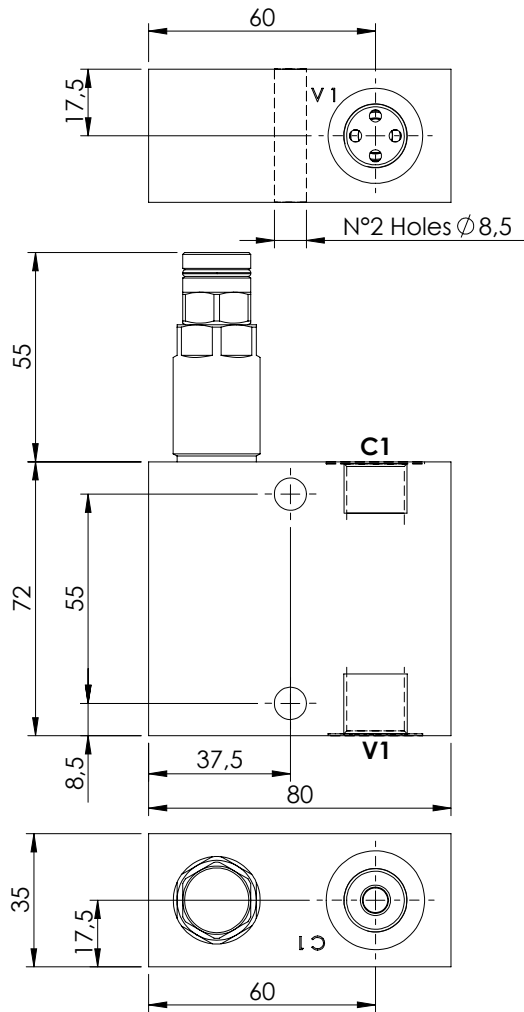
Quick code	Spring range 20-70 bar setting (Q=1 l/min)	Quick code	Spring range 70-130 bar setting (Q=1 l/min)	Quick code	Spring range 130-210 bar setting (Q=1 l/min)
CP000194	20	CP000203	80	CP000210	140
CP000197	30	CP000204	90	CP000211	150
CP000198	40	CP000205	100	CP000212	160
CP000199	50	CP000206	110	CP000213	170
CP000200	60	CP000207	120	CP000214	180
CP000201	70	CP000208	130	CP000215	190
				CP000216	200
				CP000217	210



SEQUENCE VALVE IN BODY

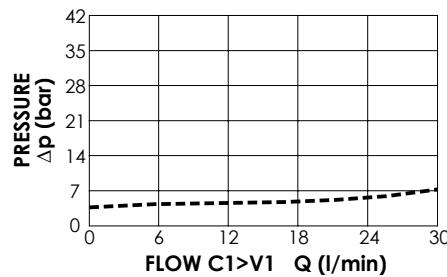
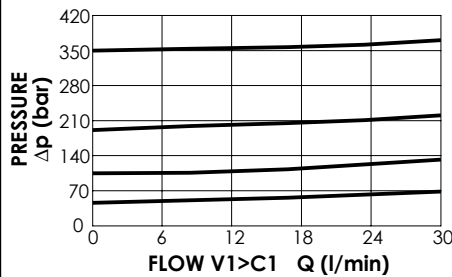
**KPST-030-DPNA**

**DIRECT ACTING  
STABILIZED PISTON  
COMPENSATED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,67 kg



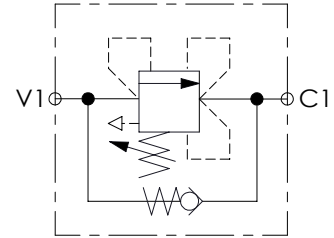
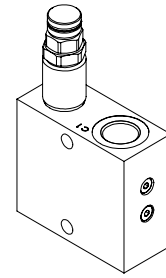
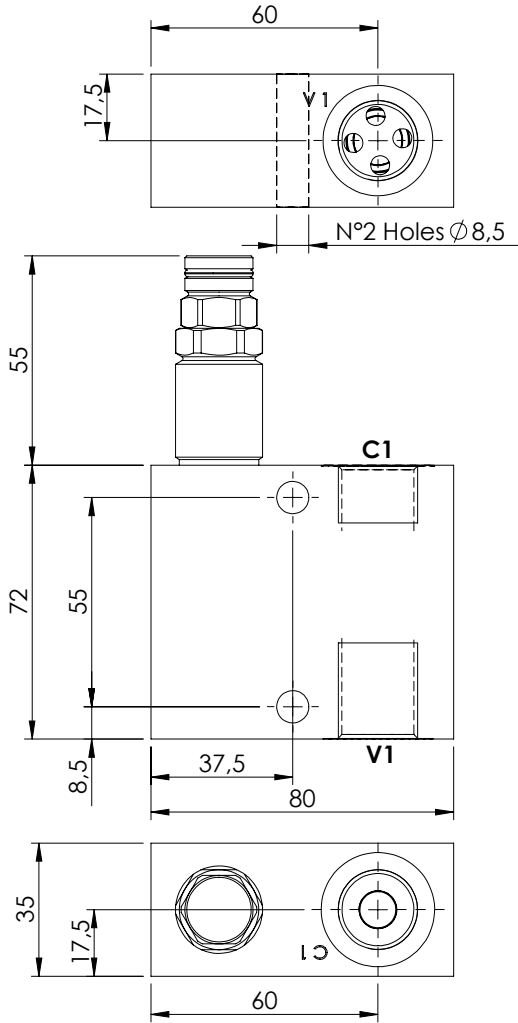
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000079	KPST-030-DPNA-HN-G38-N350	C1, V1: G 3/8"	350	100-350	91
KP000080	KPST-030-DPNA-HN-G38-N200	C1, V1: G 3/8"	200	50-210	42
KP000081	KPST-030-DPNA-HN-G38-N100	C1, V1: G 3/8"	100	30-100	20
KP000082	KPST-030-DPNA-HN-G38-N050	C1, V1: G 3/8"	50	10-50	10

SEQUENCE VALVE IN BODY

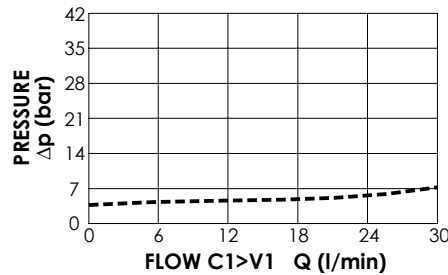
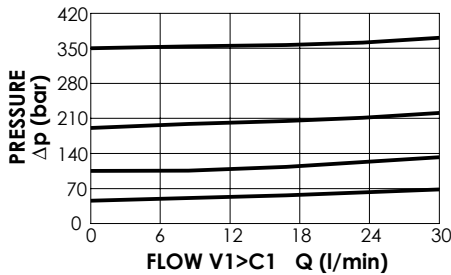
**KPST-030-DPNA**

**DIRECT ACTING  
STABILIZED PISTON  
COMPENSATED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,67 kg



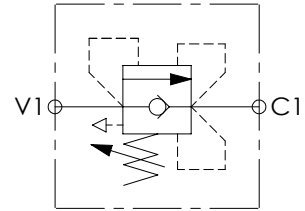
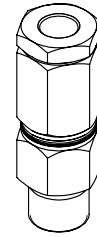
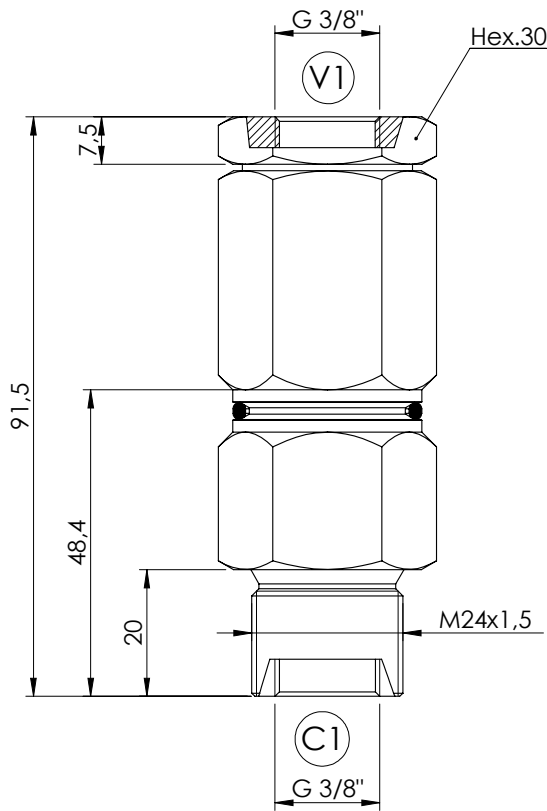
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000083	KPST-030-DPNA-HN-G12-N350	C1,V1 : G 1/2"	350	100-350	91
KP000084	KPST-030-DPNA-HN-G12-N200	C1,V1 : G 1/2"	200	50-210	42
KP000085	KPST-030-DPNA-HN-G12-N100	C1,V1 : G 1/2"	100	30-100	20
KP000086	KPST-030-DPNA-HN-G12-N050	C1,V1 : G 1/2"	50	5-50	10

SEQUENCE VALVE

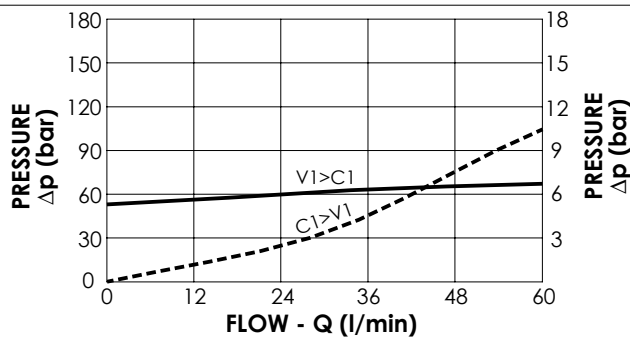
**CPST-060-DHLD**

DIFFERENTIAL AREA  
COMPENSATED



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Body:	Steel
Weight:	0,39 kg



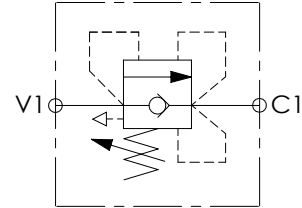
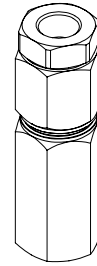
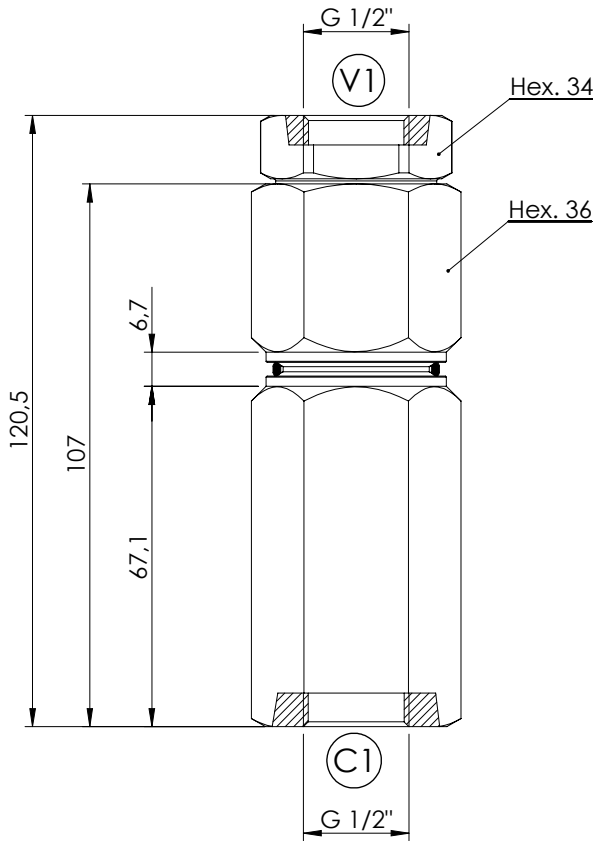
**ORDERING CODES**

Quick code	Description	Port size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CP000091	CPST-060-DHLD-GN-G38-N100	V1,C1 : G 3/8"	100	50-140	26
CP000435	CPST-060-DHLD-GN-G38-N120	V1,C1 : G 3/8"	120	50-140	26

SEQUENCE VALVE

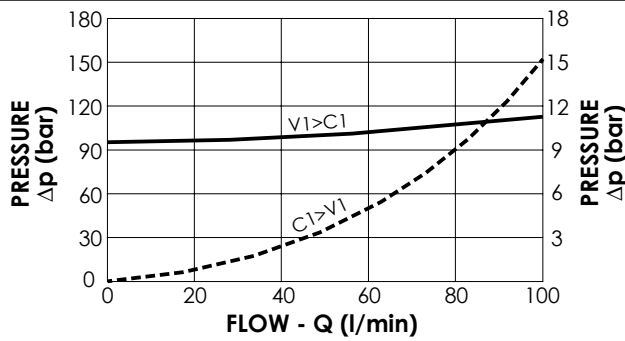
**CPST-100-DHLD**

**DIFFERENTIAL AREA  
POPPET TYPE  
COMPENSATED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Body:	Steel
Weight:	0,82 kg



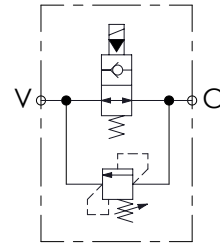
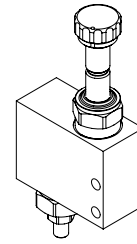
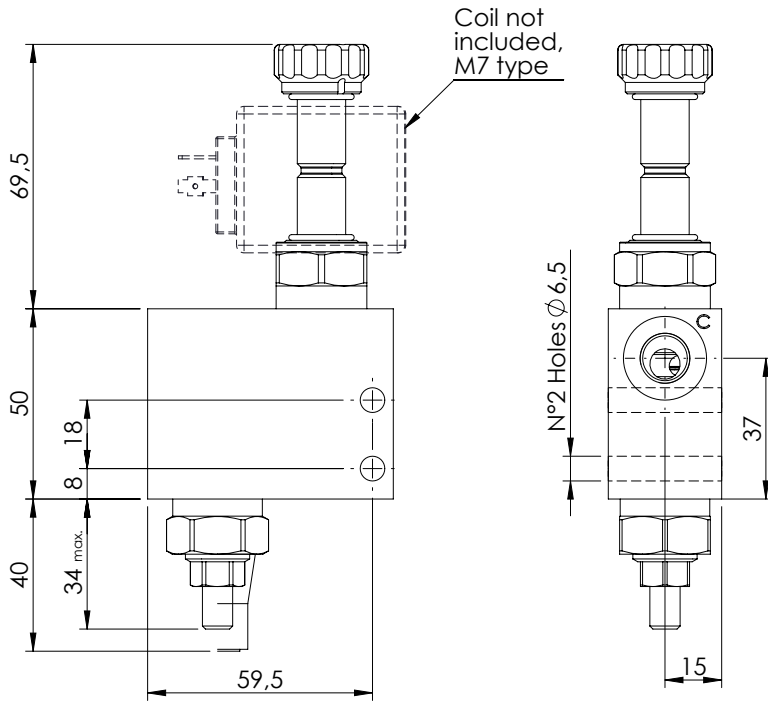
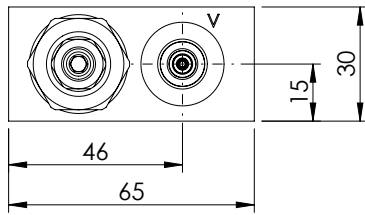
**ORDERING CODES**

Quick code	Description	Port size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CP000092	CPST-100-DHLD-GN-G12-N140	V1,C1: G1/2"	100	50 - 140	27
CP000269	CPST-100-DHLD-GN-G12-N220	V1,C1: G1/2"	200	100 - 220	39

SEQUENCE VALVE

**KPEN-020-DPLD**

**DIRECT ACTING  
SOLENOID BY-PASS**

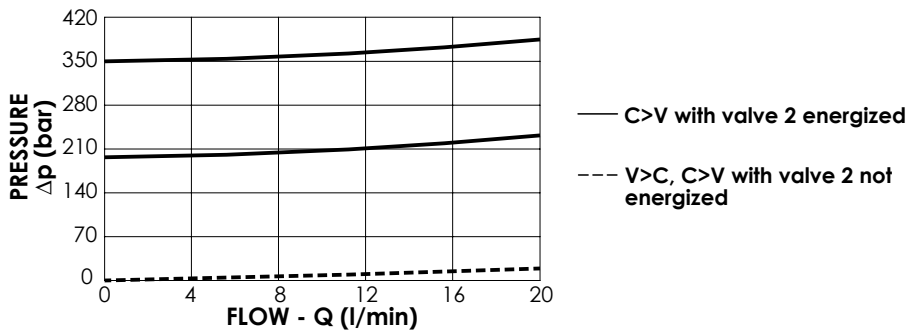
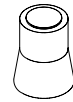


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	20 l/min
Manifold:	Steel
Weight:	0,83 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustm. range (bar)	Pressure increase (bar/turn)
KP000109	KPEN-020-DPLD-SN-G14-N350	G 1/4"	350	175-350	177
KP000110	KPEN-020-DPLD-SN-G14-N210	G 1/4"	200	105-210	80



**SECTION 4**

**CHECK VALVES**

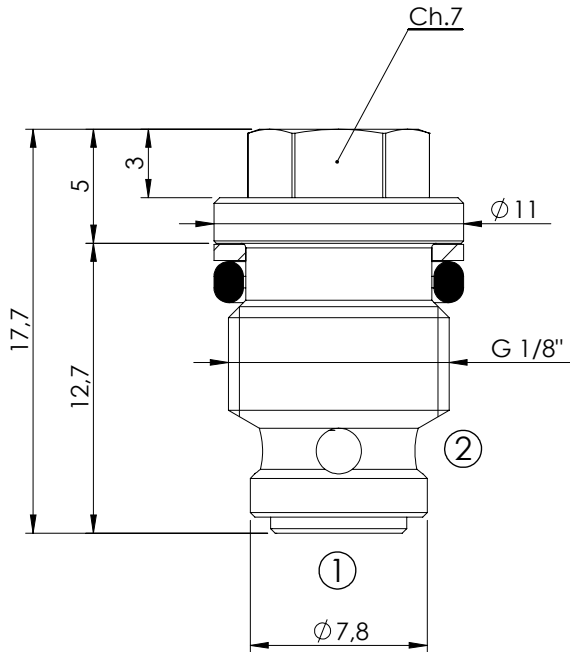
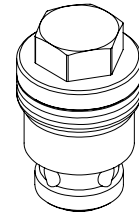


Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	CDVN-010-SSNS	Sphere type	10	350	Cartridge	VP000216	4.01.010
	CDVN-030-PSNR	Poppet type	30	350	Cartridge	VP000015	4.01.020
	CDVN-050-PSNR	Poppet type	50	350	Cartridge	SAE-08-2N	4.01.030
	CDVN-060-PSNR	Poppet type	60	350	Cartridge	VP000006	4.01.040
	CDVN-080-PSNR	Poppet type	80	350	Cartridge	SAE-10-2N	4.01.050
	CDVN-090-PSNR	Poppet type	90	350	Cartridge	SAE-12-2N	4.01.060
	CDVN-010-PAGS	Poppet type, monodirectional	10	350	Cartridge	G 1/8"	4.02.070
	CDVN-020-PAGS	Poppet type, monodirectional	20	350	Cartridge	G 1/4"	4.02.070
	CDVN-050-PAGS	Poppet type, monodirectional	50	350	Cartridge	G 3/8"	4.02.070
	CDVN-080-PAGS	Poppet type, monodirectional	80	350	Cartridge	G 1/2"	4.02.070
	CDVN-120-PAGS	Poppet type, monodirectional	120	350	Cartridge	G 3/4"	4.02.070
	CDVN-010-PANS	Poppet type, monodirectional	10	350	Cartridge	G 1/8"	4.01.080
	CDVN-020-PANS	Poppet type, monodirectional	20	350	Cartridge	G 1/4"	4.01.080
	CDVN-050-PANS	Poppet type, monodirectional	50	350	Cartridge	G 3/8"	4.01.080
	CDVN-080-PANS	Poppet type, monodirectional	80	350	Cartridge	G 1/2"	4.01.080
	CDVN-120-PANS	Poppet type, monodirectional	120	350	Cartridge	G 3/4"	4.01.080
		CDVN-015-SSNS	Sphere type, bidirectional	15	350	Insert	G 1/4"
CDVN-030-SSNS		Sphere type, bidirectional	30	350	Insert	G 3/8"	4.01.100
CDVN-050-SSNS		Sphere type, bidirectional	50	350	Insert	G 1/2"	4.01.110
CDVN-070-PSNS		Sphere type, bidirectional	70	350	Insert	G1/2"	4.01.120
CDVN-120-PSNS		Sphere type, bidirectional	120	350	Insert	G3/4"	4.01.130
		CDVN-090-PSNP	Poppet type	90	350	Sleeve	G1/2"
	CDVN-150-PSNP	Poppet type	150	350	Sleeve	G3/4"	4.03.140
	CDVN-250-PSNP	Poppet type	250	350	Sleeve	G1"	4.03.140
	CDVN-350-PSNP	Poppet type	350	350	Sleeve	G1"1/4	4.03.140
	CDVN-090-DSNS	Poppet type	90	350	Sleeve	G1/2"	4.03.150
	CDVN-150-DSNS	Poppet type	150	350	Sleeve	G3/4"	4.03.150
	CDVN-200-DSNS	Poppet type	250	350	Sleeve	G1"	4.03.150
	CDVN-250-DSNS	Poppet type	350	350	Sleeve	G1"1/4	4.03.150
	CDVN-010-DSNS	Disk type, bidirectional, not leak proof	10	350	Insert	G1/4"	4.04.160
	CDVN-030-DSNS	Disk type, bidirectional, not leak proof	30	350	Insert	G3/8"	4.04.160
	CDVN-070-DSNS	Disk type, bidirectional, not leak proof	70	350	Insert	G1/2"	4.04.160

CHECK VALVE

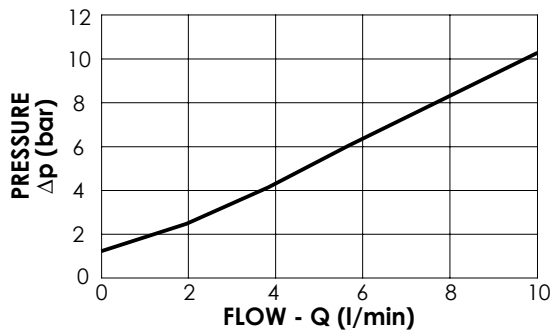
**CDVN-010-SSNS**

SPHERE TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	10 l/min
Cavity:	VP000216
Weight:	0,01 kg



**NOTES**

Installation torque:	6.5 - 7 Nm
Seal kit:	RC700216

**ORDERING CODES**

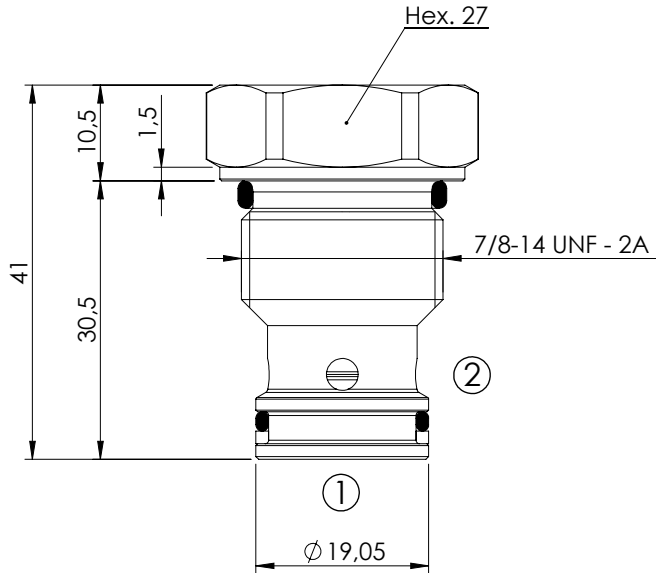
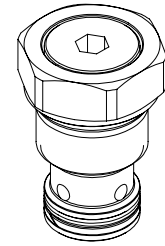
Quick code	Description	Cracking pressure (bar)	
CD000094	CDVN-010-SSNS-HN-216-N001	1,2	



CHECK VALVE

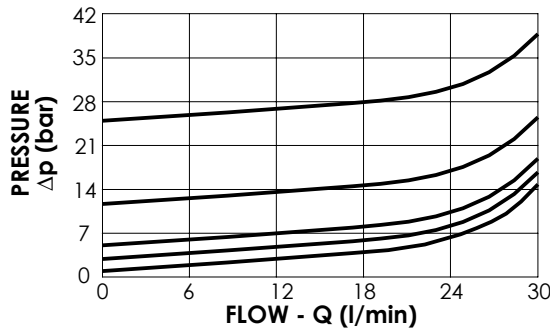
**CDVN-030-PSNR**

POPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	VP000015
Weight:	0,11 kg



**NOTES**

Installation torque:	76 - 85 Nm
Seal kit:	RC700015

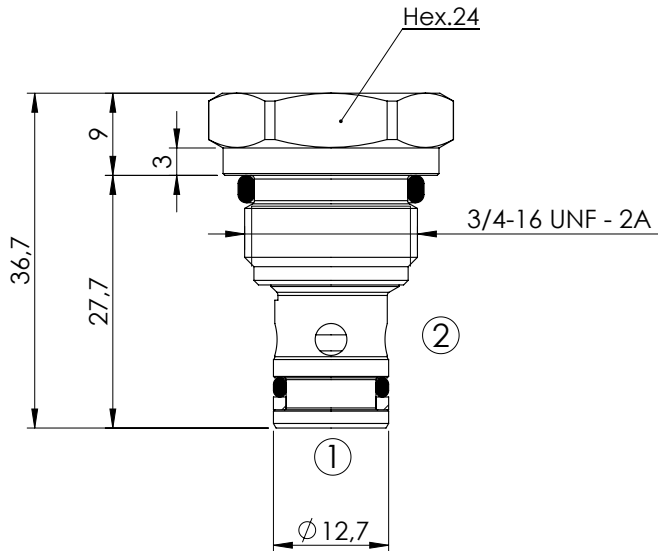
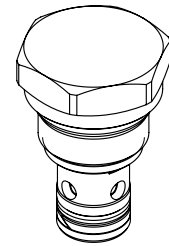
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	Hardened Seat
CD000054	CDVN-030-PSNR-HN-015-N001	1	NO
CD000302	CDVN-030-PANR-HN-015-N001	1	YES
CD000195	CDVN-030-PSNR-HN-015-N003	3	NO
CD000303	CDVN-030-PANR-HN-015-N003	3	YES
CD000055	CDVN-030-PSNR-HN-015-N005	5	NO
CD000304	CDVN-030-PANR-HN-015-N005	5	YES
CD000056	CDVN-030-PSNR-HN-015-N009	9	NO
CD000132	CDVN-030-PANR-HN-015-N009	9	YES
CD000057	CDVN-030-PSNR-HN-015-N025	25	NO
CD000063	CDVN-030-PANR-HN-015-N025	25	YES

CHECK VALVE

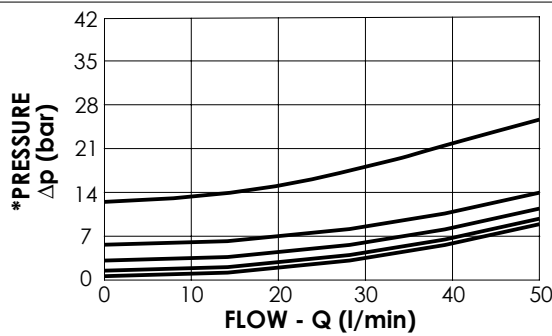
**CDVN-050-PSNR**

POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	50 l/min
Cavity:	SAE-08-2N
Weight:	0,06 kg



**NOTES**

Installation torque:	45 - 52 Nm
Seal kit:	RA700081

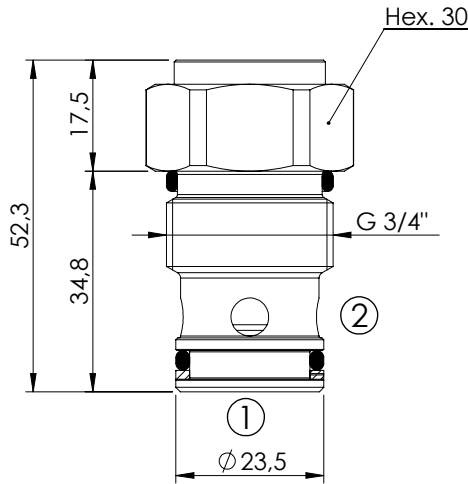
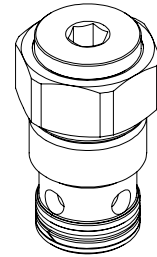
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	
CD000099	CDVN-050-PSNR-FN-S08-N000	0.35	
CD000024	CDVN-050-PSNR-FN-S08-N001	1	
CD000039	CDVN-050-PSNR-FN-S08-N003	3	
CD000269	CDVN-050-PSNR-FN-S08-N006	6	
CD000070	CDVN-050-PSNR-FN-S08-N013	13	

CHECK VALVE

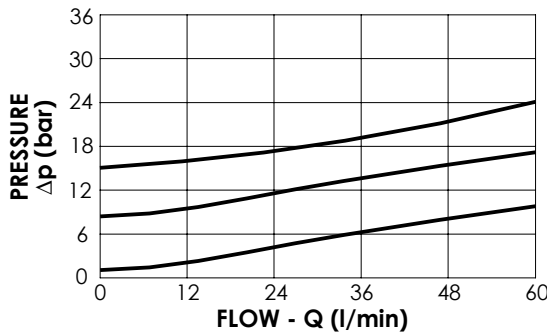
**CDVN-060-PSNR**

POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	VP000006
Weight:	0,18 kg



**NOTES**

Installation torque:	100 - 130 Nm
Seal kit:	RC700006

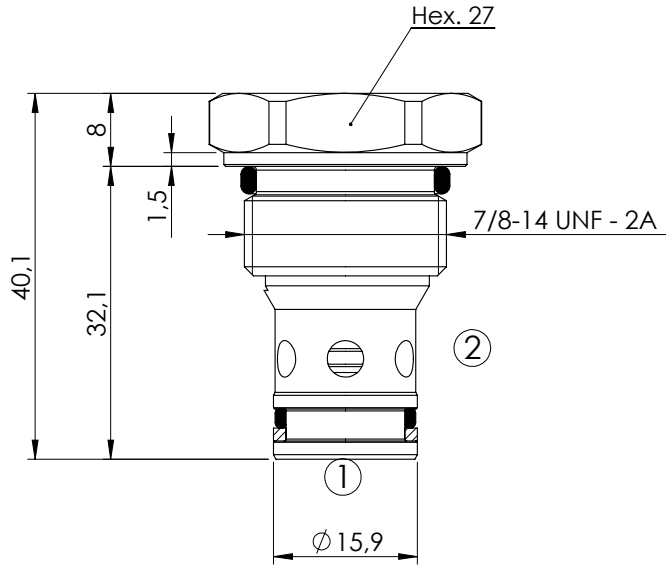
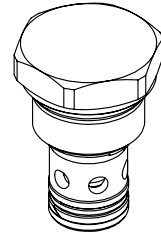
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	
CD000019	CDVN-060-PSNR-FN-006-N001	1	
CD000020	CDVN-060-PSNR-FN-006-N009	9	
CD000075	CDVN-060-PSNR-FN-006-N015	15	

CHECK VALVE

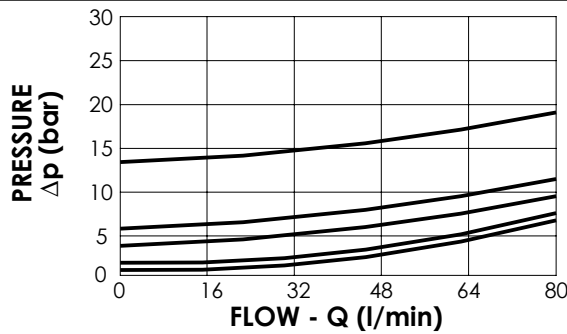
**CDVN-080-PSNR**

POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	80 l/min
Cavity:	SAE-10-2N
Weight:	0,09 kg



**NOTES**

Installation torque:	50 - 57 Nm
Seal kit:	RA700082

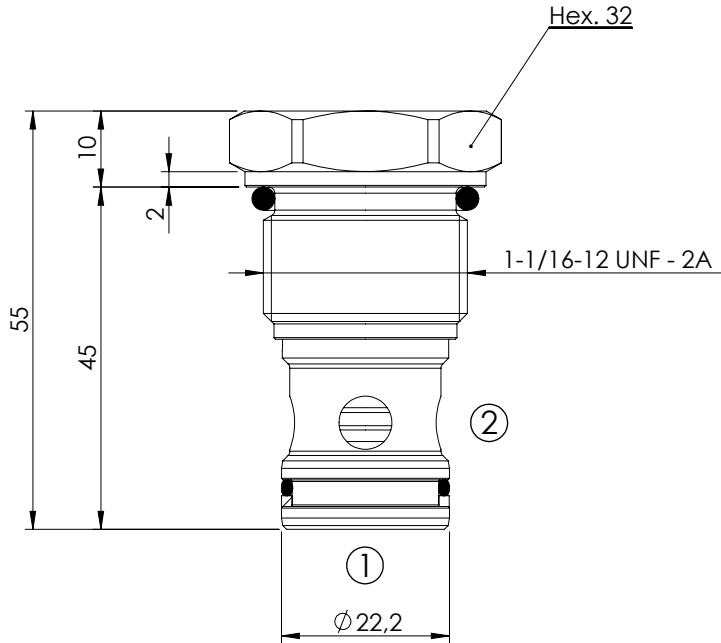
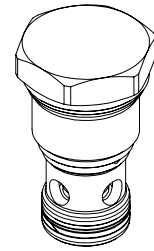
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	
CD000100	CDVN-080-PSNR-FN-S10-N000	0,35	
CD000023	CDVN-080-PSNR-FN-S10-N001	1	
CD000169	CDVN-080-PSNR-FN-S10-N003	3,7	
CD000101	CDVN-080-PSNR-FN-S10-N005	5,5	
CD000082	CDVN-080-PSNR-FN-S10-N013	13	

CHECK VALVE

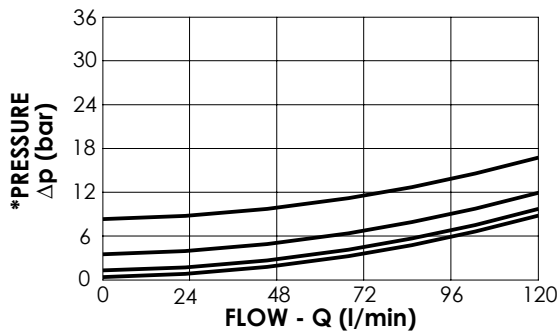
**CDVN-120-PSNR**

POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	120 l/min
Cavity:	SAE-12-2N
Weight:	0,18 kg



**NOTES**

Installation torque:	110 - 130 Nm
Seal kit:	RA700083

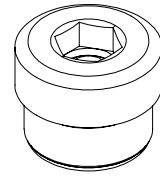
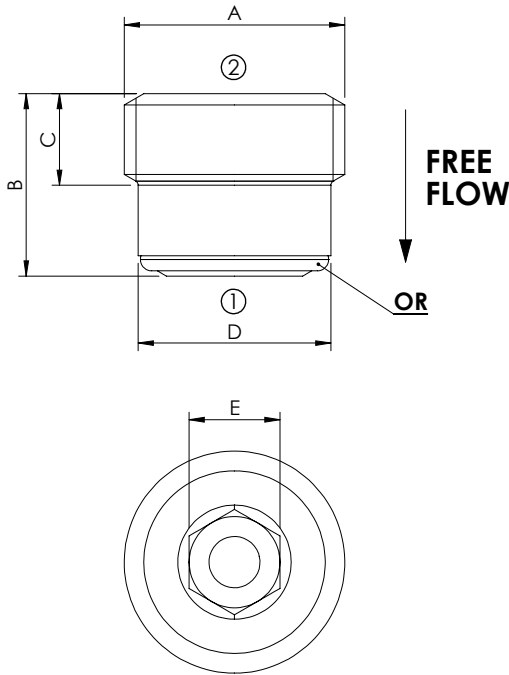
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	
CD000444	CDVN-120-PSNR-FN-S12-N000	0,3	
CD000046	CDVN-120-PSNR-FN-S12-N001	1	
CD000310	CDVN-120-PSNR-FN-S12-N004	4	
CD000445	CDVN-120-PSNR-FN-S12-N008	8	

CHECK VALVE

**CDVN-XXX-PAGS**

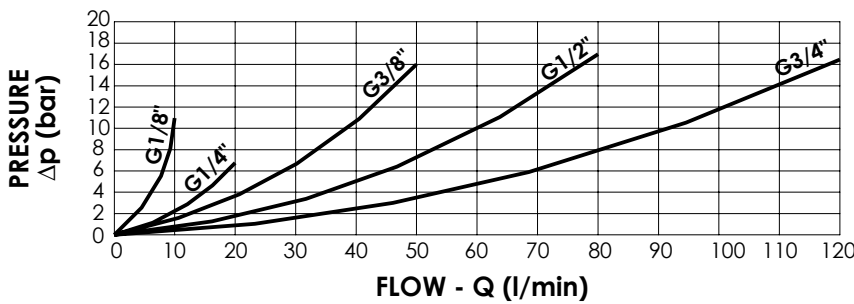
MONODIRECTIONAL  
POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure: 350 bar

Quick code	A	B	C	D	E	OR
CD000179	G 1/8"	8.0	3.9	8.5	Hex. 4	6.00 x 1 N70
CD000180	G 1/4"	10.2	5.5	11.5	Hex. 6	9.00 x 1 N70
CD000181	G 3/8"	11.7	7.0	14.9	Hex. 8	11.00 x 1.50 N70
CD000182	G 1/2"	13.5	7.9	18.7	Hex.10	14.00 x 1.78 N70
CD000183	G 3/4"	17.1	11.5	24.0	Hex.10	18.77 x 1.78 N70



**NOTES**

Hardened seat and piston

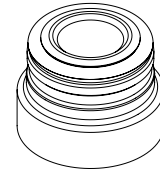
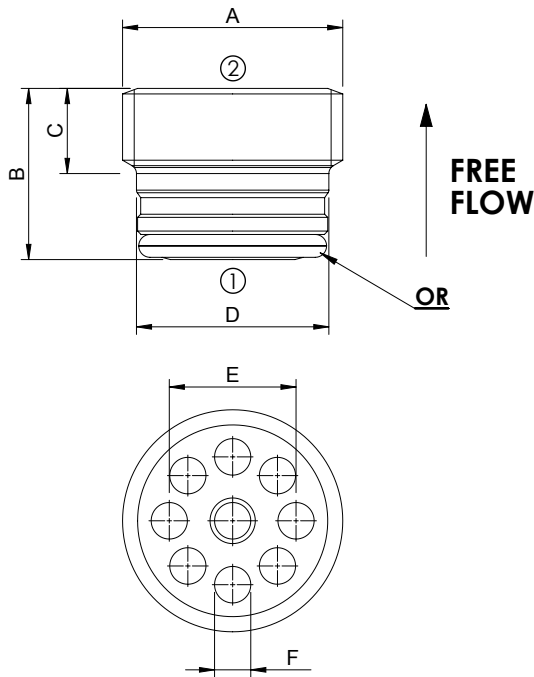
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	Rated flow (l/min)	Cavity	Installation torque (Nm)
CD000179	CDVN-010-PAGS-307-N001	0.3	10	VP000307 (G1/8")	5
CD000180	CDVN-020-PAGS-309-N001	0.3	20	VP000309 (G1/4")	15
CD000181	CDVN-050-PAGS-310-N001	0.3	50	VP000310 (G3/8")	20
CD000182	CDVN-080-PAGS-311-N001	0.3	80	VP000311 (G1/2")	40
CD000183	CDVN-120-PAGS-312-N001	0.3	120	VP000312 (G3/4")	50

CHECK VALVE

**CDVN-XXX-PANS**

MONODIRECTIONAL  
POPPET TYPE



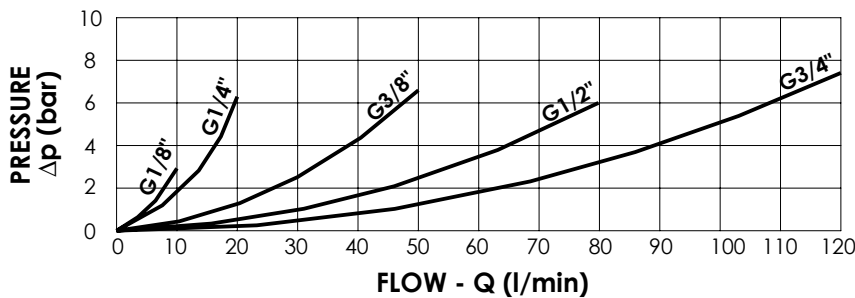
**SPECIFICATIONS**

Max. operating pressure: 350 bar

Quick code	A	B	C	D	E	F	OR
CD000173	G 1/8"	7.5	3.5	8.5	5.6	1.6	6.00 x 1 N70
CD000174	G 1/4"	8.5	4.4	11.4	8.4	2.2	9.00 x 1 N70
CD000175	G 3/8"	11.3	6.0	14.9	11.1	3.0	10.82 x 1.78 N70
CD000176	G 1/2"	12.7	6.5	18.5	13.5	3.8	14.00 x 1.78 N70
CD000178	G 3/4"	14.8	7.6	24.0	16.5	5.0	18.77 x 1.78 N70

**NOTES**

Hardened seat and piston  
Fatigue cycle life @ 350 bar, @ 1 Hz,  
and nominal flow: >1 million cycle



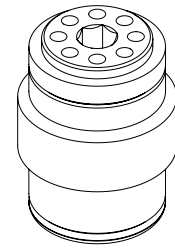
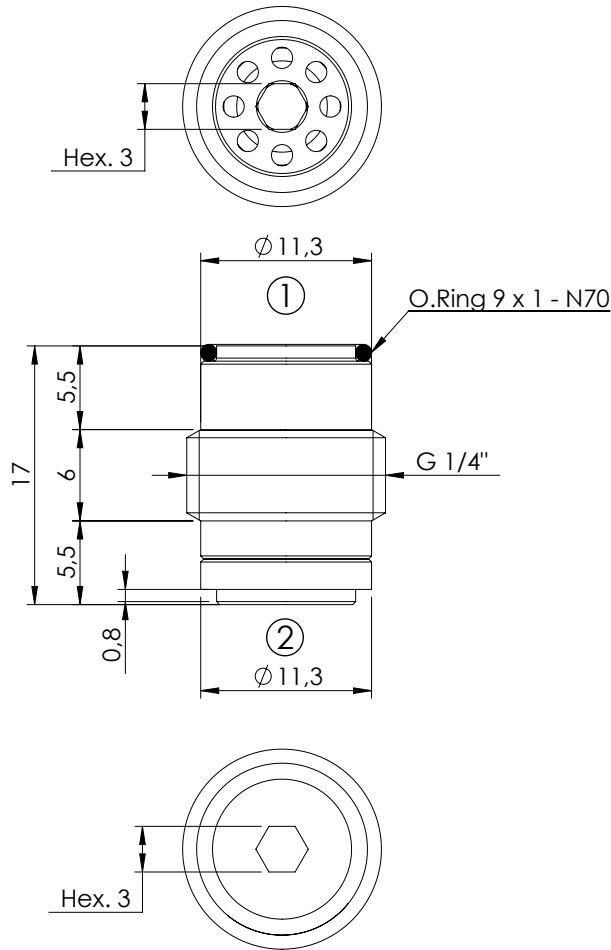
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	Rated flow (l/min)	Cavity	Installation torque (Nm)	Installation tool
CD000173	CDVN-010-PANS-307-N001	0.3	10	VP000307 (G1/8")	5	UM000096
CD000174	CDVN-020-PANS-309-N001	0.3	20	VP000309 (G1/4")	6	UM000097
CD000175	CDVN-050-PANS-310-N001	0.3	50	VP000310 (G3/8")	6	UM000098
CD000176	CDVN-080-PANS-311-N001	0.3	80	VP000311 (G1/2")	10	UM000099
CD000178	CDVN-120-PANS-312-N001	0.3	120	VP000312 (G3/4")	15	UM000100

CHECK VALVE

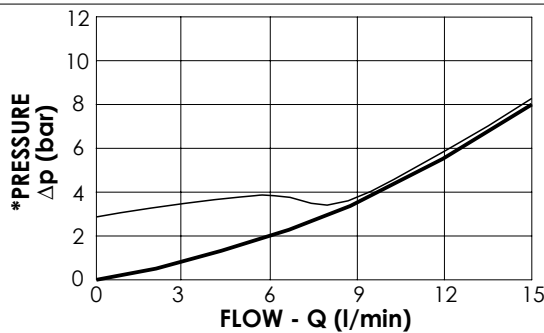
**CDVN-015-SSNS**

MONO-DIRECTIONAL  
SPHERE TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	15 l/min
Cavity:	VP000098
Weight:	0,01 kg



**NOTES**

Installation torque:	6 Nm
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**ORDERING CODES**

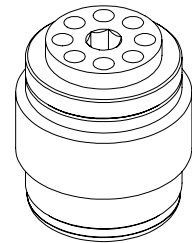
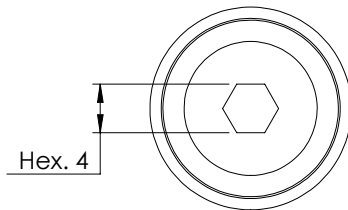
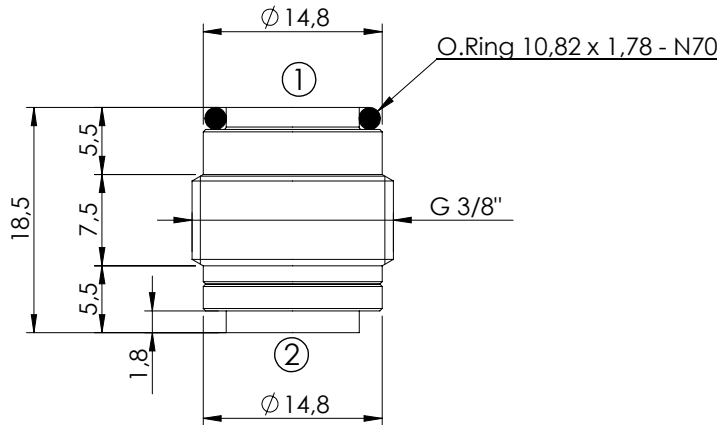
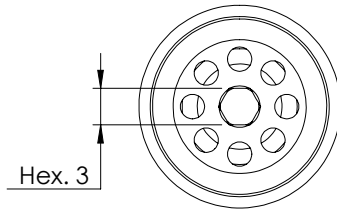
Quick code	Description	Cracking pressure (bar)	
CD000026	CDVN-015-SSNS-FN-098-N003	3	
CD000043	CDVN-015-SSNS-FN-098-N000	0	



CHECK VALVE

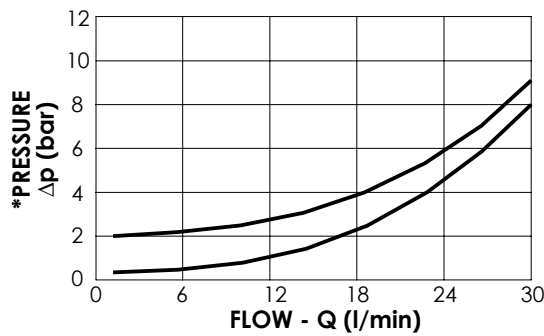
**CDVN-030-SSNS**

MONO DIRECTIONAL  
SPHERE TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	VP000310
Weight:	0,02 kg



**NOTES**

Installation torque: 8 Nm

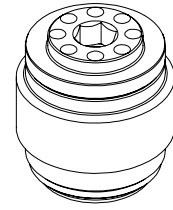
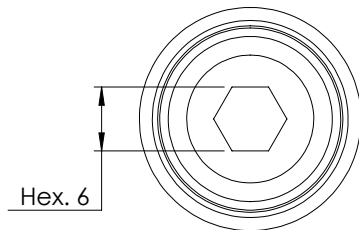
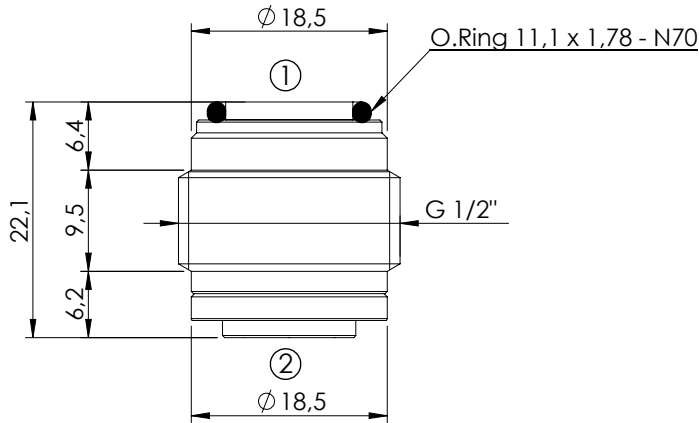
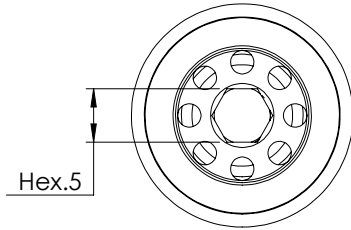
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	
CD000029	CDVN-030-SSNS-FN-310-N002	2	
CD000058	CDVN-030-SSNS-FN-310-N000	0	

CHECK VALVE

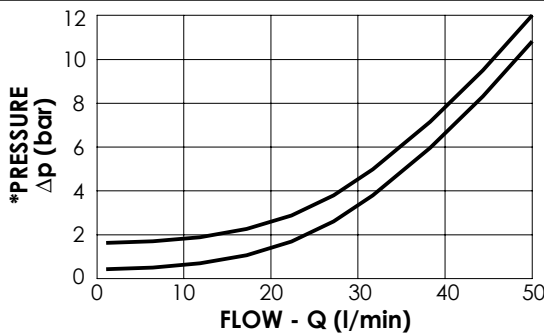
**CDVN-050-SSNS**

**BIDIRECTIONAL  
SPHERE TYPE**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	50 l/min
Cavity:	VP000158
Weight:	0,04 kg



**NOTES**

Installation torque: 25 Nm  
 Bidirectional installations.  
 Fit O-Ring to side first inserted in cavity.

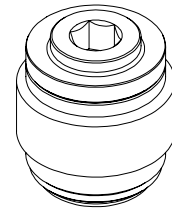
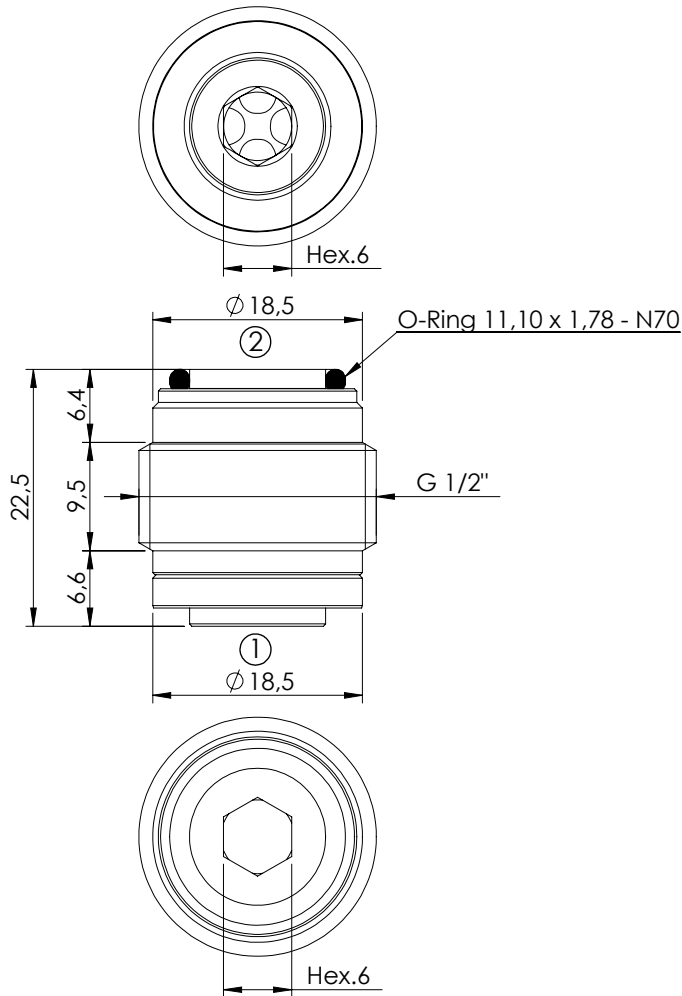
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	
CD000098	CDVN-050-SSNS-FN-158-N002	1,5	
CD000059	CDVN-050-SSNS-FN-158-N000	0	

CHECK VALVE

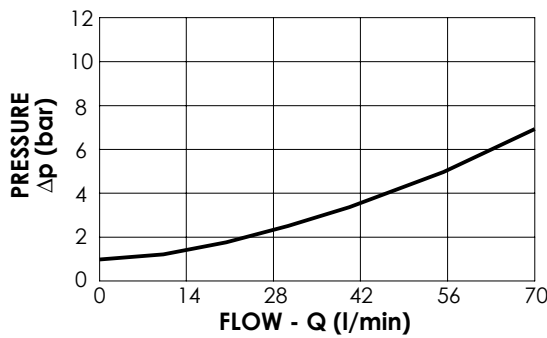
**CDVN-070-PSNS**

BIDIRECTIONAL  
POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	70 l/min
Cavity:	VP000158
Weight:	0,04 kg



**NOTES**

Installation torque: 25-30 Nm

The valve can be assembled in both ways, OR to be placed only on the side first introduced in the cavity

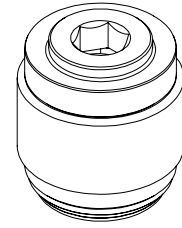
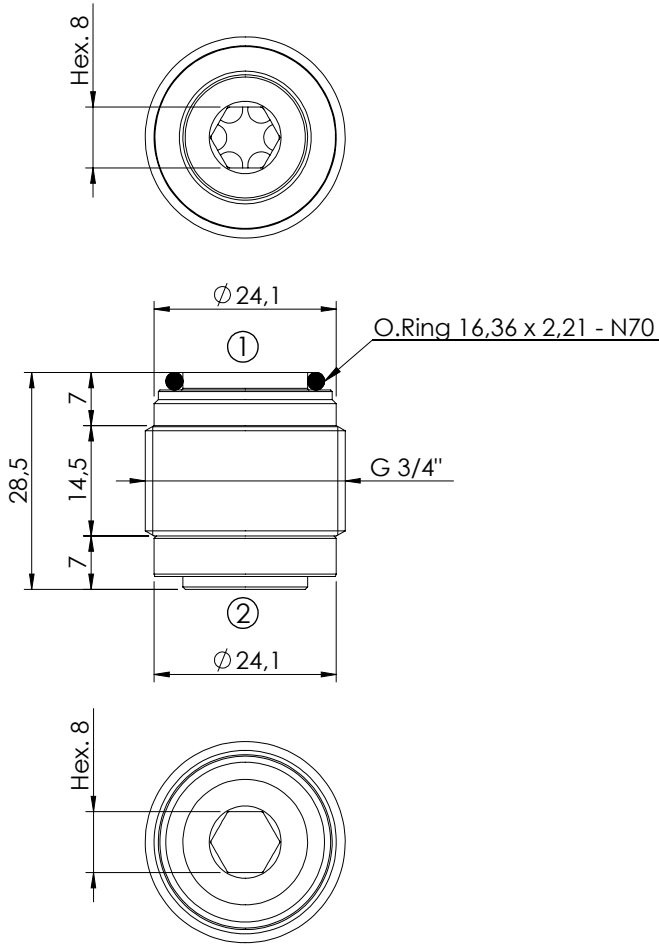
**ORDERING CODES**

Quick code	Description	Craking pressure (bar)	
CD000107	CDVN-070-PSNS-FN-158-N001	1	

CHECK VALVE

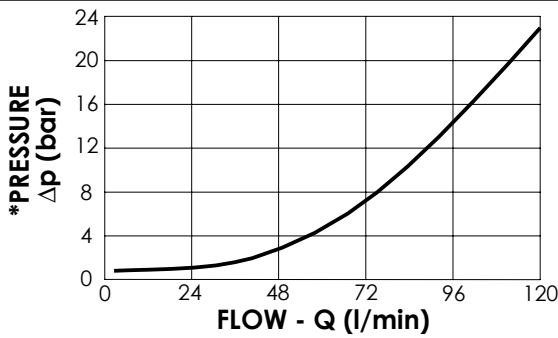
**CDVN-120-PSNS**

**BIDIRECTIONAL  
POPPET TYPE**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	120 l/min
Cavity:	VP000202
Weight:	0,08 kg



**NOTES**

Installation torque: 60 - 75 Nm

The valve can be assembled in both ways, OR to be placed only on the side first introduced in the cavity

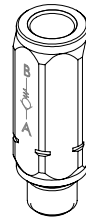
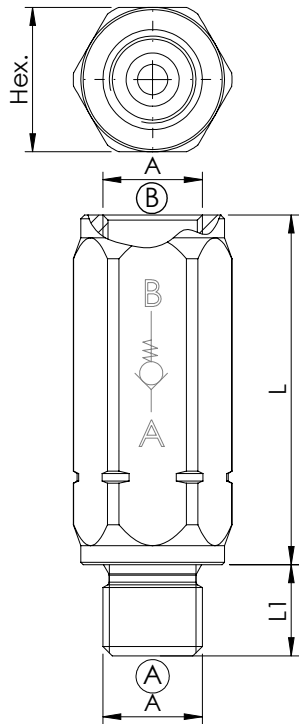
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	
CD000106	CDVN-120-PSNS-FN-202-N001	1	

CHECK VALVE

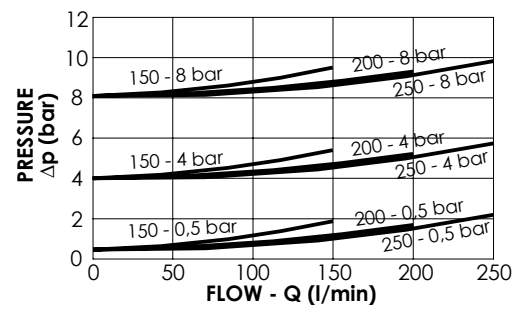
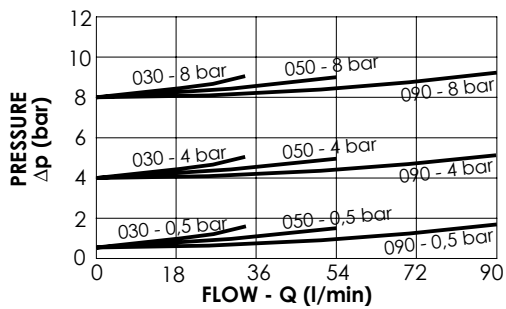
**CDVN-XXX-PSNP**

SLEEVE  
POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	30 - 350 l/min
Body:	Zinc plated steel



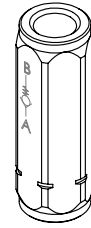
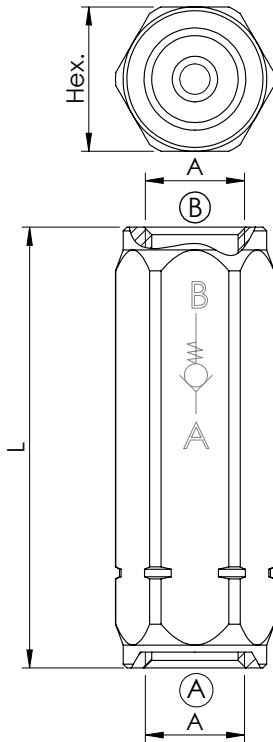
**ORDERING CODES**

Quick code	Description	Rated flow (l/min)	Cracking pressure (bar)	Dimension			
				A	L	L1	HEX
CD000425	CDVN-030-PSNP-MF-G14-N008	30	8	G 1/4"	46	12	19
CD000424	CDVN-030-PSNP-MF-G14-N004	30	4	G 1/4"	46	12	19
CD000423	CDVN-030-PSNP-MF-G14-N001	30	0,5	G 1/4"	46	12	19
CD000428	CDVN-050-PSNP-MF-G38-N008	50	8	G 3/8"	50	12	24
CD000427	CDVN-050-PSNP-MF-G38-N004	50	4	G 3/8"	50	12	24
CD000426	CDVN-050-PSNP-MF-G38-N001	50	0,5	G 3/8"	50	12	24
CD000136	CDVN-090-PSNP-MF-G12-N008	90	8	G 1/2"	57	14	30
CD000291	CDVN-090-PSNP-MF-G12-N004	90	4	G 1/2"	57	14	30
CD000142	CDVN-090-PSNP-MF-G12-N001	90	0,5	G 1/2"	57	14	30
CD000139	CDVN-150-PSNP-MF-G34-N008	150	8	G 3/4"	60	16	36
CD000292	CDVN-150-PSNP-MF-G34-N004	150	4	G 3/4"	60	16	36
CD000143	CDVN-150-PSNP-MF-G34-N001	150	0,5	G 3/4"	60	16	36
CD000140	CDVN-200-PSNP-MF-G10-N008	200	8	G 1"	88	18	45
CD000293	CDVN-200-PSNP-MF-G10-N004	200	4	G 1"	88	18	45
CD000144	CDVN-200-PSNP-MF-G10-N001	200	0,5	G 1"	88	18	45
CD000141	CDVN-250-PSNP-MF-G11-N008	250	8	G 1" 1/4	102	20	55
CD000294	CDVN-250-PSNP-MF-G11-N004	250	4	G 1" 1/4	102	20	55
CD000145	CDVN-250-PSNP-MF-G11-N001	250	0,5	G 1" 1/4	102	20	55

CHECK VALVE

**CDVN-XXX-PSNP**

SLEEVE  
POPPET TYPE

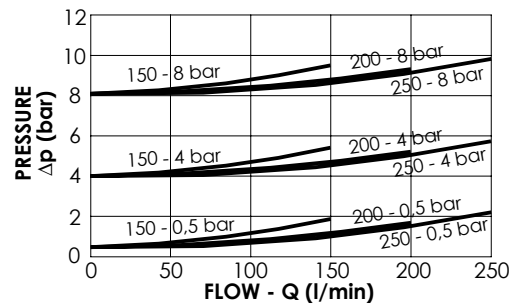
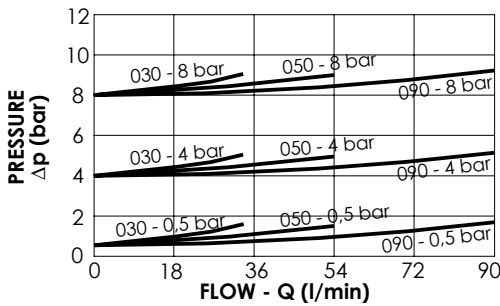


**SPECIFICATIONS**

Max. operating pressure: **420 bar**

Rated flow: **30 - 250 l/min**

Body: **Zinc plated steel**



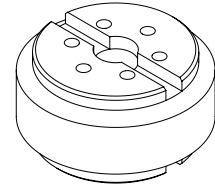
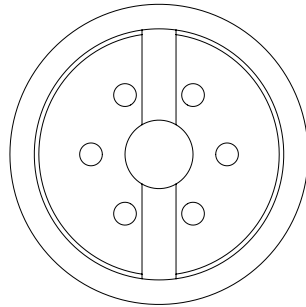
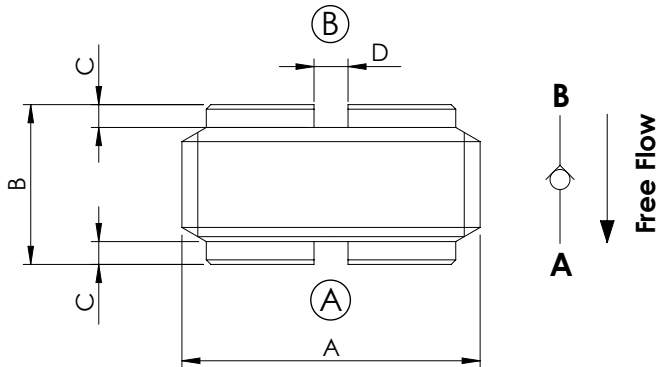
**ORDERING CODES**

Quick code	Description	Rated flow (l/min)	Cracking pressure (bar)	Dimension		
				A	L	HEX
CD000324	CDVN-030-PSNP-FF-G14-N008	30	8	G 1/4"	58	19
CD000312	CDVN-030-PSNP-FF-G14-N004	30	4	G 1/4"	58	19
CD000317	CDVN-030-PSNP-FF-G14-N001	30	0,5	G 1/4"	58	19
CD000323	CDVN-050-PSNP-FF-G38-N008	50	8	G 3/8"	62	22
CD000318	CDVN-050-PSNP-FF-G38-N004	50	4	G 3/8"	62	22
CD000212	CDVN-050-PSNP-FF-G38-N001	50	0,5	G 3/8"	62	22
CD000277	CDVN-090-PSNP-FF-G12-N008	90	8	G 1/2"	71	30
CD000287	CDVN-090-PSNP-FF-G12-N004	90	4	G 1/2"	71	30
CD000281	CDVN-090-PSNP-FF-G12-N001	90	0,5	G 1/2"	71	30
CD000278	CDVN-150-PSNP-FF-G34-N008	150	8	G 3/4"	83	36
CD000421	CDVN-150-PSNP-FF-G34-N006	150	6	G 3/4"	83	36
CD000288	CDVN-150-PSNP-FF-G34-N004	150	4	G 3/4"	83	36
CD000282	CDVN-150-PSNP-FF-G34-N001	150	0,5	G 3/4"	83	36
CD000279	CDVN-200-PSNP-FF-G10-N008	200	8	G 1"	106	45
CD000289	CDVN-200-PSNP-FF-G10-N004	200	4	G 1"	106	45
CD000283	CDVN-200-PSNP-FF-G10-N001	200	0,5	G 1"	106	45
CD000280	CDVN-250-PSNP-FF-G11-N008	250	8	G 1" 1/4	127	55
CD000290	CDVN-250-PSNP-FF-G11-N004	250	4	G 1" 1/4	127	55
CD000284	CDVN-250-PSNP-FF-G11-N001	250	0,5	G 1" 1/4	127	55

CHECK VALVE

**CDVN-010-DSNS**

INSERT TYPE  
DOUBLE MOUNTING

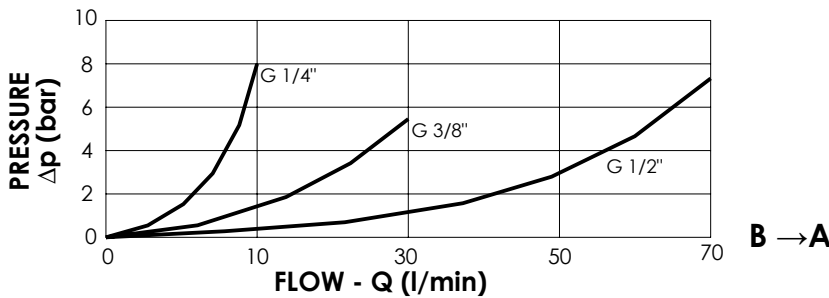


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	See table
Cavity:	See table
Weight:	0,1 kg

**NOTES**

- Disk type
- Not leak proof
- Without spring



CODE	RATED FLOW
G 1/4"	10 l/min
G 3/8"	30 l/min
G 1/2"	70 l/min

**ORDERING CODES**

Quick code	Description	Install. torque (Nm)	Cracking pressure (bar)	Dimension			
				A	B	C	D
CD000150	CDVN-010-DSNS-00-G14-N350	5	0	G 1/4"	7	1	1,5
CD000148	CDVN-030-DSNS-00-G38-N350	10	0	G 3/8"	7,5	1	1,5
CD000151	CDVN-070-DSNS-00-G12-N350	10	0	G 1/2"	11	1,5	1,5





SECTION 5

PILOT OPERATED CHECK VALVES



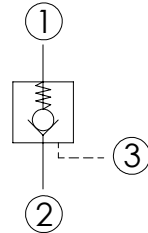
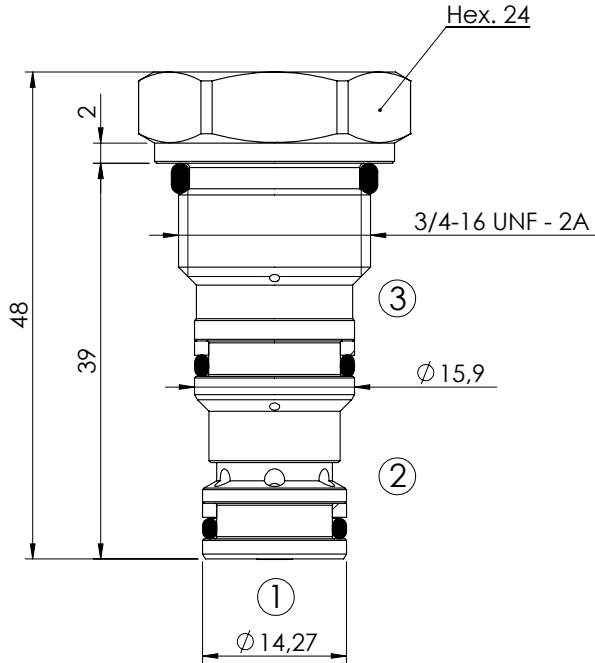
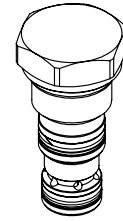
Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	CDPN-030-PSGR	Poppet type	30	350	Cartridge	SAE-08-3C	5.01.010
	CDPN-060-PSGR	Poppet type	60	350	Cartridge	SAE-10-3C	5.01.020
	CDPN-060-PSGR	Poppet type	60	350	Cartridge	VP000161 (F-11A)	5.01.030
	CDPN-030-PANR	Poppet type	30	350	Cartridge	VP000314	5.02.040
	CDPN-030-PSNE	Poppet type, separate pilot piston	30	350	Cartridge	VP000028	5.02.050
	CDPN-050-PSNN	Poppet type, separate pilot piston	50	350	Cartridge	VP000193	5.02.060
	CDPN-060-PSNN	Poppet type, separate pilot piston	60	350	Cartridge	VP000038	5.02.070
	MCSN-020-SLAC	Single acting, poppet type	20	350	In line	G 1/4"	5.03.080
	MCSN-030-TLNS	Single acting, poppet type	30	350	In line	G 3/8"	5.03.090
	MCSN-030-TANS	Single acting, poppet type	30	350	Flanged	G 3/8"	5.03.100
	MCSN-060-TLNS	Single acting, poppet type	60	350	In line	G 1/2"	5.03.110
	MCSN-060-TANS	Single acting, poppet type	60	350	Flanged	G 1/2"	5.03.120
	MCSN-020-TLLC	Single acting, manual shut off, left version	20	210	In line	G 3/8"	5.04.130
	MCSN-020-TLRC	Single acting, manual shut off, right version	20	210	In line	G 3/8"	5.04.140
	MCDN-020-SLAS	Double acting, poppet type	20	350	In line	G 1/4"	5.05.150
	MCDN-030-TLNS	Double acting, poppet type	30	350	In line	G 3/8"	5.05.160
	MCDN-030-TBNS	Double acting, poppet type	30	350	Flanged	G 3/8"	5.05.170
	MCDN-030-SBNS	Double acting, poppet type, steel body	30	350	Flanged	G 3/8"	5.05.180
	MCDN-060-TLNS	Double acting, poppet type	60	350	In line	G 1/2"	5.05.190
	MCDN-060-TBNS	Double acting, poppet type	60	350	Flanged	G 1/2"	5.05.200
	MCDN-070-SLAS	Double acting, poppet type	70	350	In line	G 1/2"	5.05.210
	MCDN-070-SLCS	Double acting, poppet type	70	350	In line	G 3/8"	5.05.210

Relief	1
Pressure reducing	2
Sequence	3
Check	4
Pilot operated check	5
Overcentre	6
Regenerative	7
Hydr. motors, actuators & winch valves	8
Motion control	9
Check and metering	10
Shuttle and logic elements	11
Flow dividers & combiners	12

PILOT OPERATED CHECK VALVE

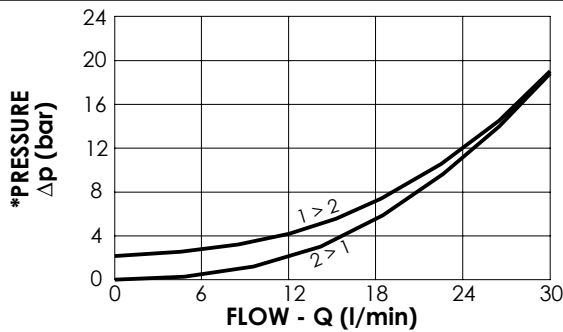
**CDPN-030-PSGR**

INTEGRAL PILOT  
PISTON



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	SAE-08-3C
Weight:	0,09 kg
Pilot ratio:	3:1



**NOTES**

Installation torque:	40 - 45 Nm
Seal kit:	RA700086

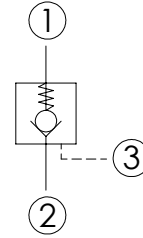
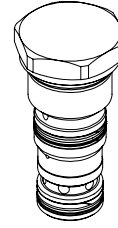
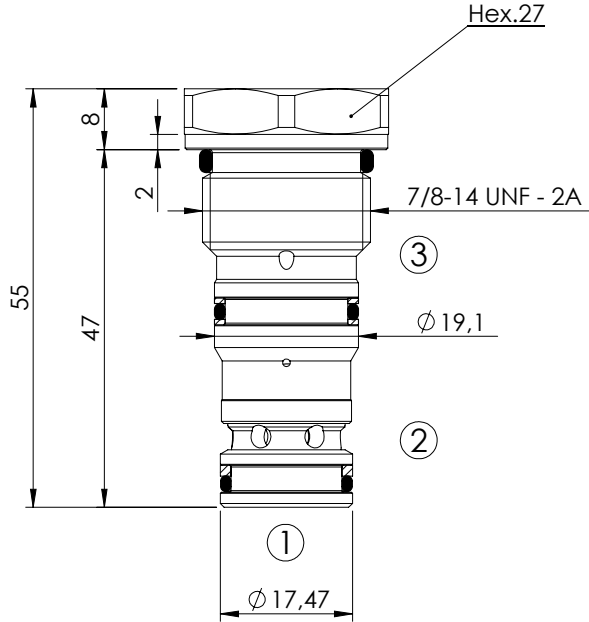
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	O-Ring on pilot piston	
CD000027	CDPN-030-PSGR-03-S08-N002	2	YES	
CD000061	CDPN-030-PSGM-03-S08-N002	2	NO	

PILOT OPERATED CHECK VALVE

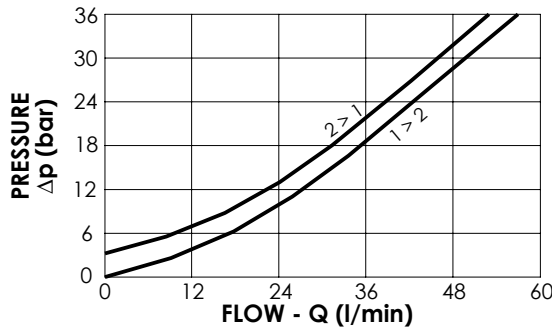
**CDPN-060-PSGR**

INTEGRAL PILOT  
PISTON



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	SAE-10-3C
Weight:	0,12 kg
Pilot ratio:	3,2 : 1



**NOTES**

Installation torque:	50 - 57 Nm
Seal kit:	RB700087

**ORDERING CODES**

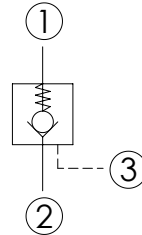
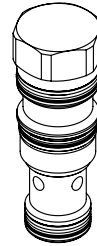
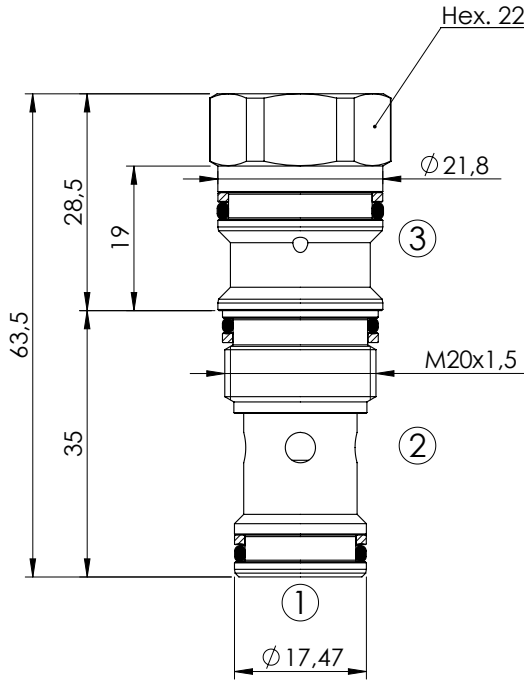
Quick code	Description	Cracking pressure (bar)	O-Ring on pilot piston
CD000109	CDPN-060-PSGR-03-S10-N002	2	YES
CD000113	CDPN-060-PSGM-03-S10-N002	2	NO
CD000170	CDPN-060-PSGR-03-S10-N005	5	YES
CD000171	CDPN-060-PSGM-03-S10-N005	5	NO

1	Relief
2	Pressure reducing
3	Sequence
4	Check
5	Pilot operated check
6	Overcentre
7	Regenerative
8	Hydr. motors, actuators & winch valves
9	Motion control
10	Check and metering
11	Shuttle and logic elements
12	Flow dividers & combiners

PILOT OPERATED CHECK VALVE

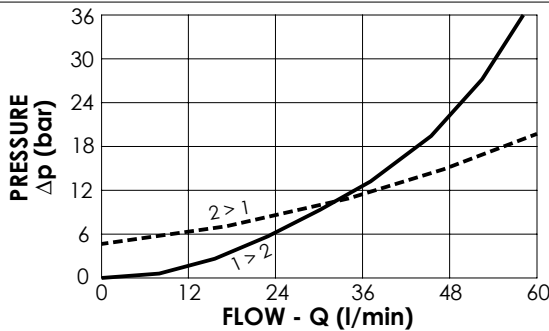
**CDPN-060-PSGR**

INTEGRAL PILOT  
PISTON



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	VP000161 (SUN T-11A)
Weight:	0,12 kg
Pilot ratio:	3,2 : 1



**NOTES**

Installation torque:	40 - 50 Nm
Seal kit:	RC700161

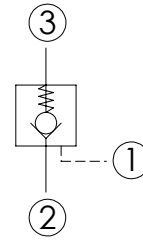
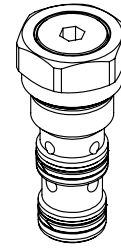
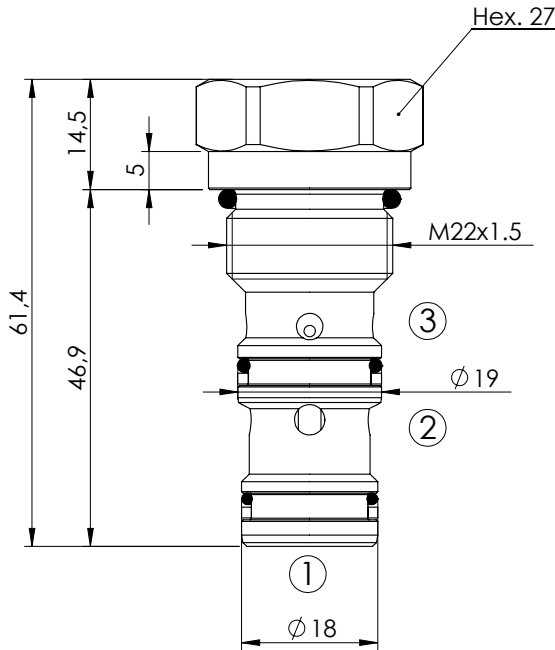
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	O-Ring on pilot piston	
CD000226	CDPN-060-PSGR-03-161-N002	2	YES	
CD000227	CDPN-060-PSGM-03-161-N002	2	NO	
CD000224	CDPN-060-PSGR-03-161-N005	5	YES	
CD000225	CDPN-060-PSGM-03-161-N005	5	NO	
CD000229	CDPN-060-PSGR-03-161-N007	7	YES	

PILOT OPERATED CHECK VALVE

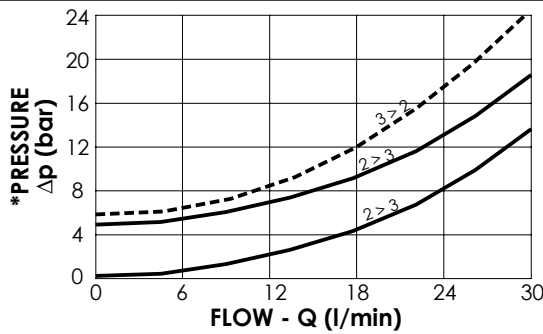
**CDPN-030-PANR**

INTEGRAL PILOT  
PISTON



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	VP000314
Weight:	0,1 kg
Pilot ratio:	4 : 1



**NOTES**

Installation torque:	50 - 60 Nm
Seal kit:	RC700314

**ORDERING CODES**

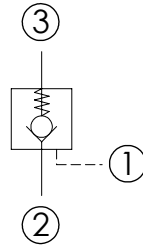
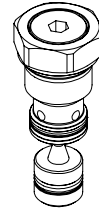
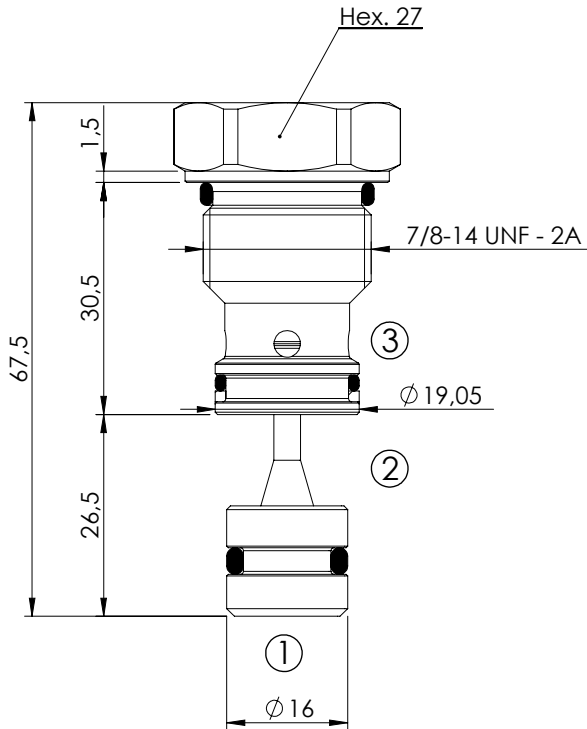
Quick code	Description	Cracking pressure (bar)	O-Ring on pilot piston	
CD000186	CDPN-030-PANR-04-314-N005	5	YES	
CD000235	CDPN-030-PANM-04-314-N001	1	NO	

1	Relief
2	Pressure reducing
3	Sequence
4	Check
5	Pilot operated check
6	Overcentre
7	Regenerative
8	Hydr. motors, actuators & winch valves
9	Motion control
10	Check and metering
11	Shuttle and logic elements
12	Flow dividers & combiners

PILOT OPERATED CHECK VALVE

**CDPN-030-PSNE**

SEPARATE PILOT  
PISTON

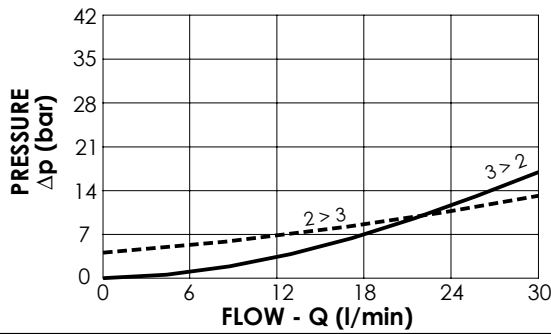


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	VP000028
Weight:	0,13 kg
Pilot ratio:	7:1

**NOTES**

Installation torque: 75 - 95 Nm



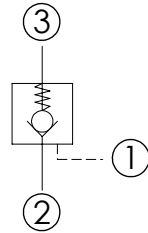
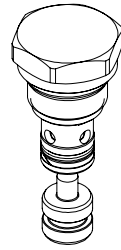
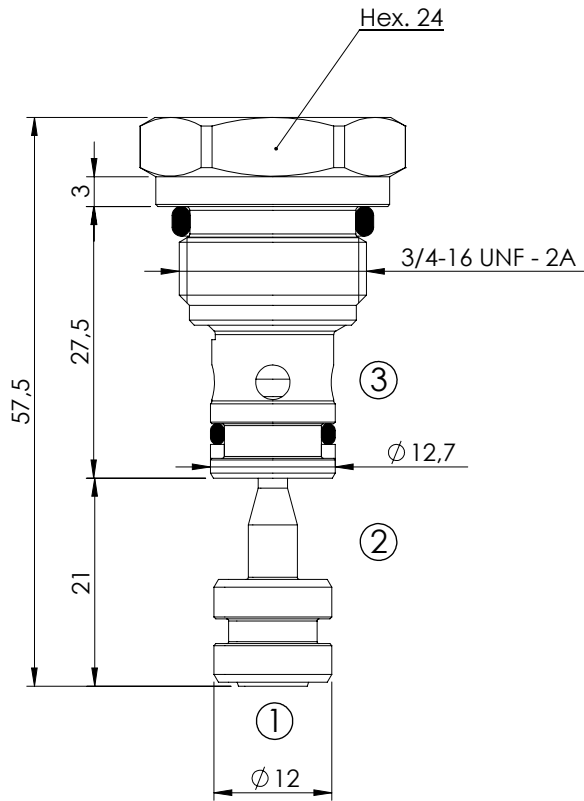
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	O-Ring on pilot piston
SC000002	CDPN-030-PSNE-07-028-N005	4,5	YES
SC000044	CDPN-030-PSNN-07-028-N005	4,5	NO

PILOT OPERATED CHECK VALVE

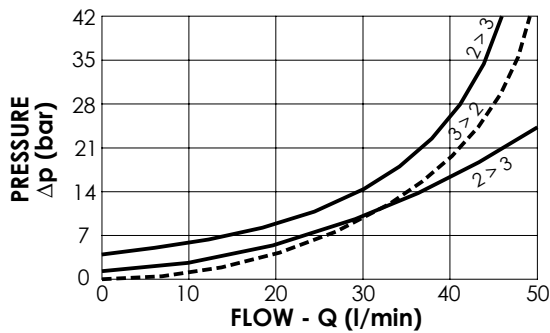
**CDPN-050-PSNN**

SEPARATE PILOT  
PISTON



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	50 l/min
Cavity:	VP000193
Weight:	0,07 kg
Pilot ratio:	4:1



**NOTES**

Installation torque:	45 - 52 Nm
Seal kit:	RC700193

**ORDERING CODES**

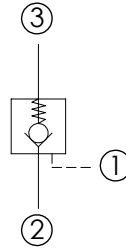
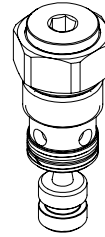
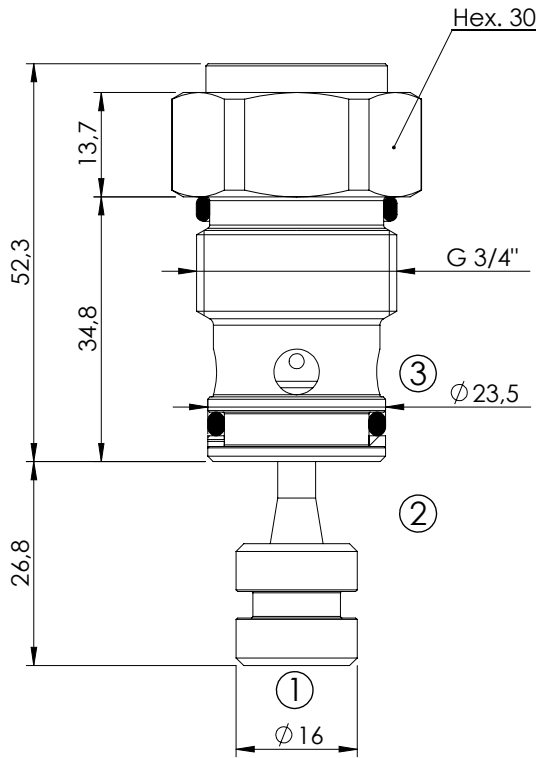
Quick code	Description	Cracking pressure (bar)	O-Ring on pilot piston
SC000051	CDPN-050-PSNN-04-193-N001	1	NO
SC000056	CDPN-050-PSNN-04-193-N003	3	NO
SC000057	CDPN-050-PSNE-04-193-N003	3	YES

1	Relief
2	Pressure reducing
3	Sequence
4	Check
5	Pilot operated check
6	Overcentre
7	Regenerative
8	Hydr. motors, actuators & winch valves
9	Motion control
10	Check and metering
11	Shuttle and logic elements
12	Flow dividers & combiners

PILOT OPERATED CHECK VALVE

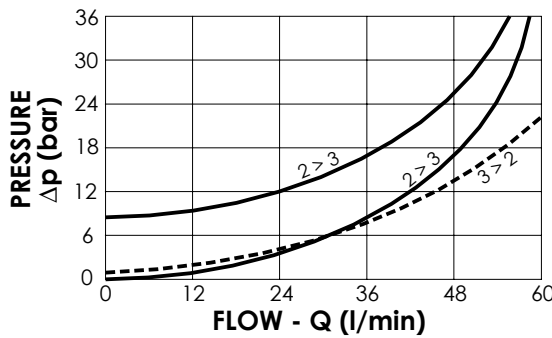
**CDPN-060-PSNN**

SEPARATE PILOT  
POPPET TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	VP000038
Weight:	0,2 kg
Pilot ratio:	3:1



**NOTES**

Installation torque:	100 - 130 Nm
Seal kit:	RC700038

**ORDERING CODES**

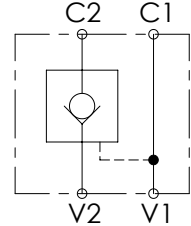
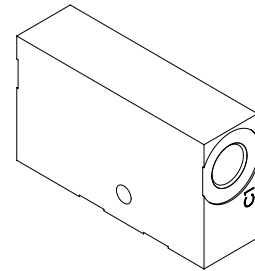
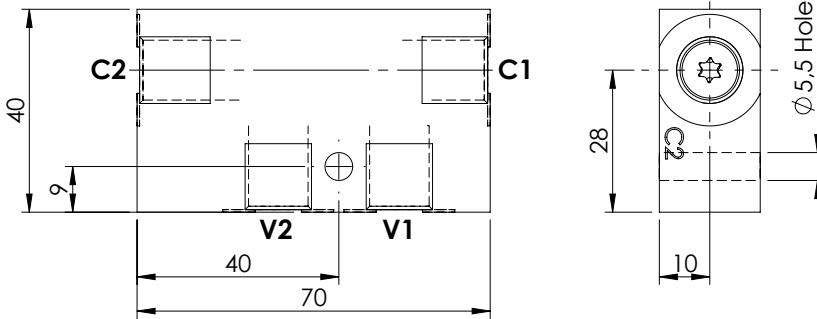
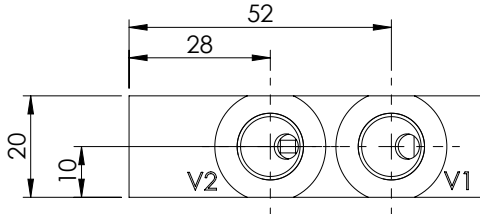
Quick code	Description	Cracking pressure (bar)	O-Ring on pilot piston
SC000052	CDPN-060-PSNN-03-038-N001	1	NO
SC000054	CDPN-060-PSNN-03-038-N008	8	NO
SC000055	CDPN-060-PSNE-03-038-N008	8	YES



PILOT OPERATED CHECK VALVE

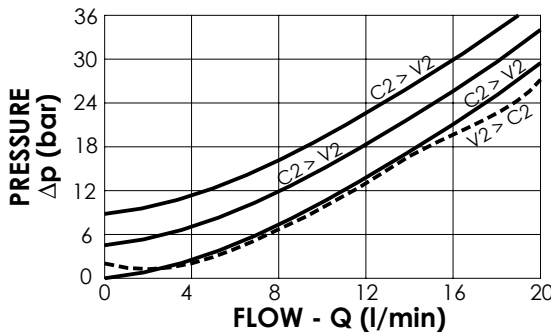
**MCSN-020-SLAC**

SINGLE ACTING



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	20 l/min
Manifold:	Steel
Weight:	0,36 kg



**ORDERING CODES**

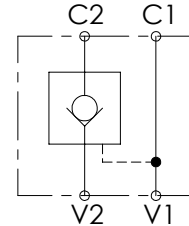
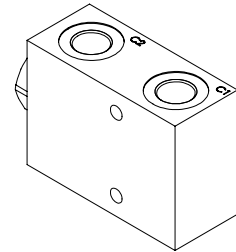
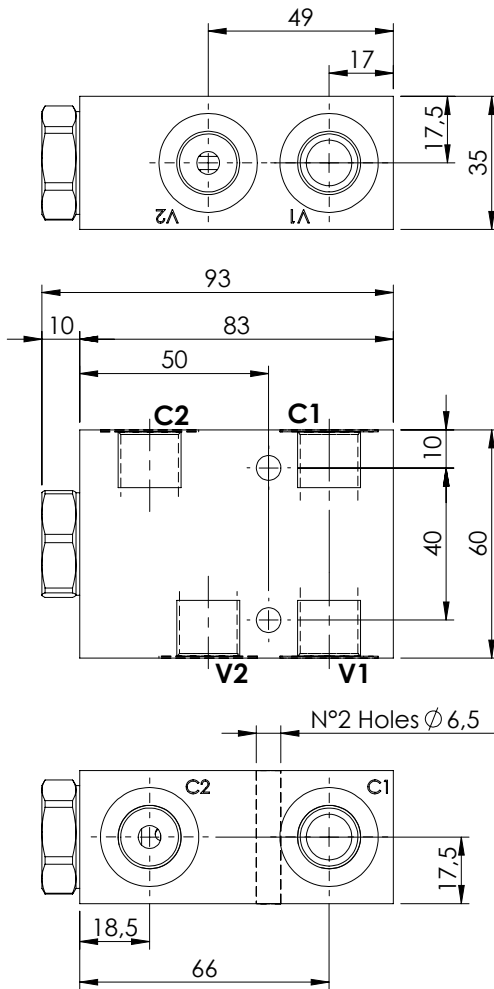
Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000059	MCSN-020-SLAC-04-G14-N003	V1,V2,C1,C2 : G 1/4"	4:1	3	YES
MC000094	MCSN-020-SLAC-04-G14-N008	V1,V2,C1,C2 : G 1/4"	4:1	8	YES
MC000097	MCSN-020-SLAC-07-G14-N005	V1,V2,C1,C2 : G 1/4"	7:1	5	YES

1	Relief
2	Pressure reducing
3	Sequence
4	Check
5	Pilot operated check
6	Overcentre
7	Regenerative
8	Hydr. motors, actuators & winch valves
9	Motion control
10	Check and metering
11	Shuttle and logic elements
12	Flow dividers & combiners

PILOT OPERATED CHECK VALVE

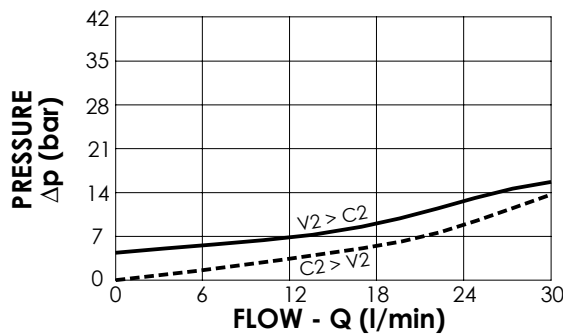
**MCSN-030-TLNS**

**SINGLE ACTING**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,49 kg



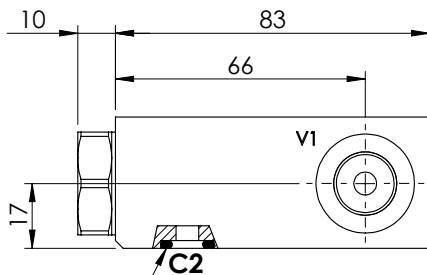
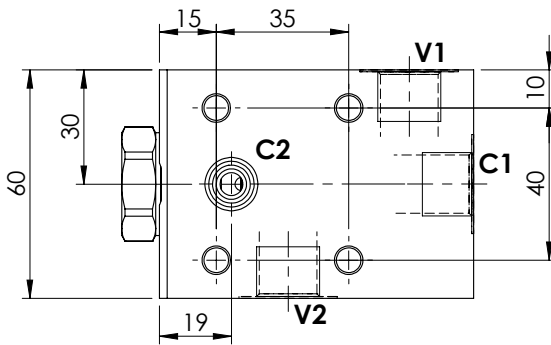
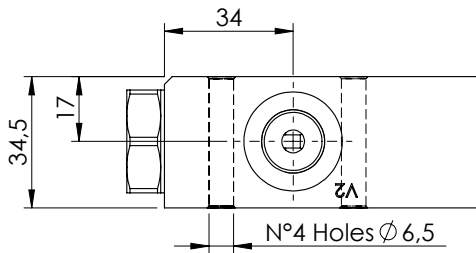
**ORDERING CODES**

Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000078	MCSN-030-TLNS-07-G38-N005	V1,V2,C1,C2 : G 3/8"	7:1	5	NO
MC000075	MCSN-030-TLNC-07-G38-N005	V1,V2,C1,C2 : G 3/8"	7:1	5	YES

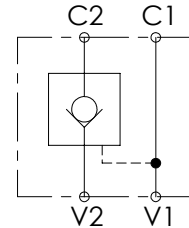
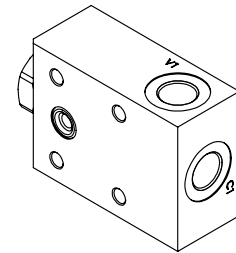
PILOT OPERATED CHECK VALVE

**MCSN-030-TANS**

SINGLE ACTING  
ONE FLANGED PORT

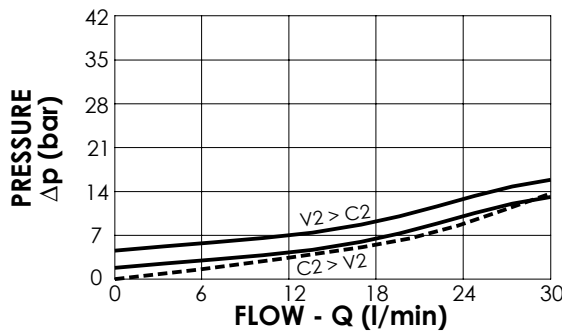


O-Ring 9,19 x 2,62 - N70



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,49 kg



**ORDERING CODES**

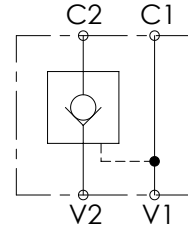
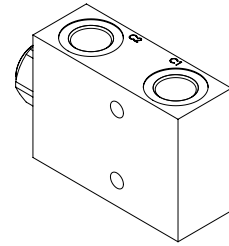
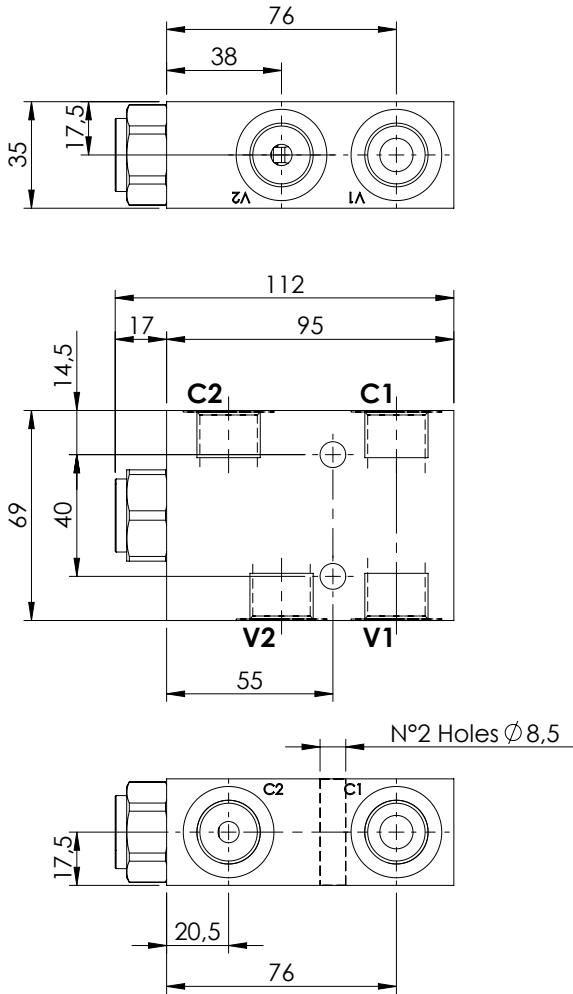
Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000064	MCSN-030-TANS-07-G38-N001	V1,V2,C1: G 3/8" C2: Ø 6	7:1	1	NO
MC000066	MCSN-030-TANS-07-G38-N005	V1,V2,C1: G 3/8" C2: Ø 6	7:1	5	NO
MC000068	MCSN-030-TANC-07-G38-N005	V1,V2,C1: G 3/8" C2: Ø 6	7:1	5	YES

1	Relief
2	Pressure reducing
3	Sequence
4	Check
5	Pilot operated check
6	Overcentre
7	Regenerative
8	Hydr. motors, actuators & winch valves
9	Motion control
10	Check and metering
11	Shuttle and logic elements
12	Flow dividers & combiners

PILOT OPERATED CHECK VALVE

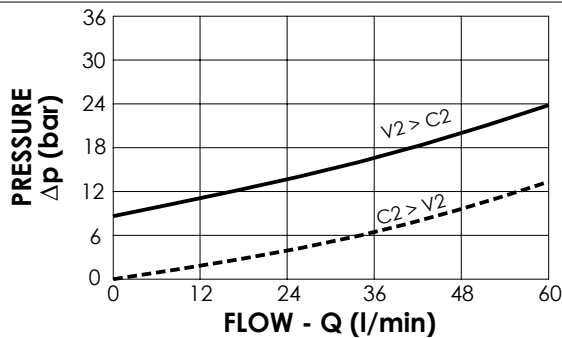
**MCSN-060-TLNS**

SINGLE ACTING



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Aluminium
Weight:	0,66 kg



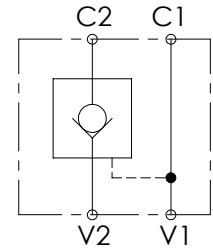
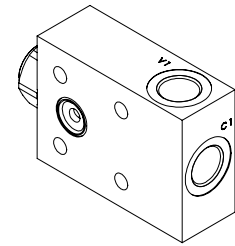
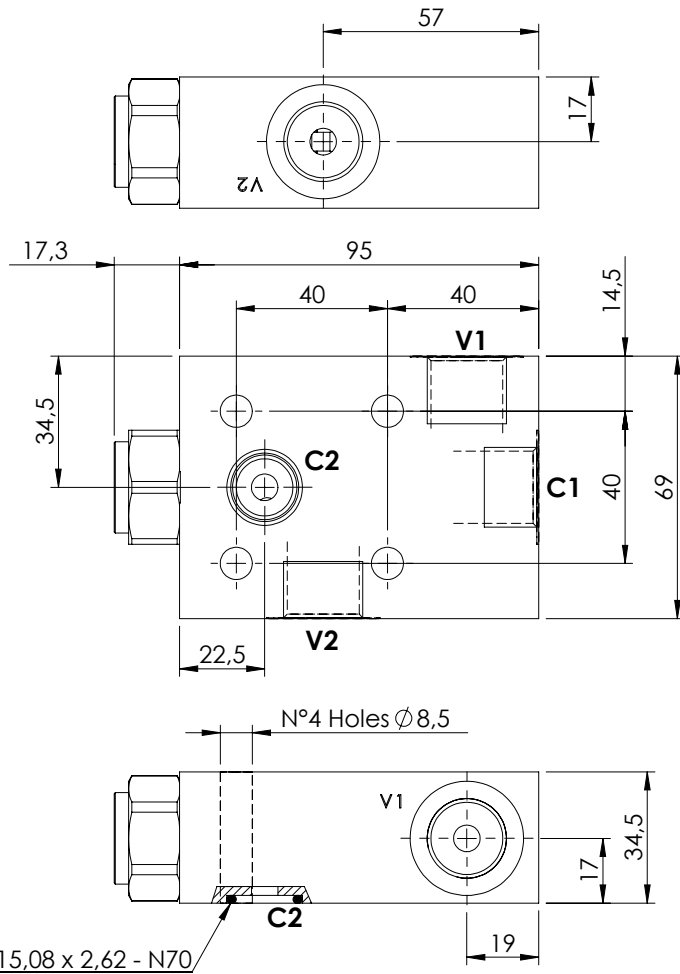
**ORDERING CODES**

Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000079	MCSN-060-TLNS-03-G12-N008	V1,V2,C1,C2 : G 1/2"	3:1	8	NO
MC000076	MCSN-060-TLNC-03-G12-N008	V1,V2,C1,C2 : G 1/2"	3:1	8	YES

PILOT OPERATED CHECK VALVE

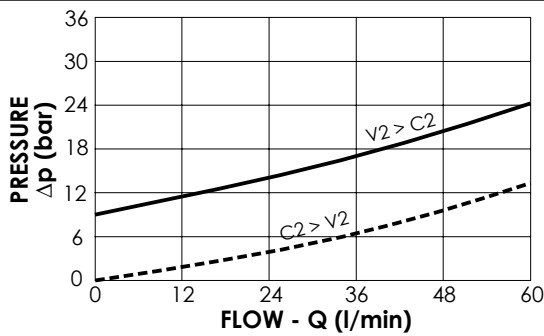
**MCSN-060-TANS**

SINGLE ACTING  
ONE FLANGED PORT



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Aluminium
Weight:	0,66 kg



**ORDERING CODES**

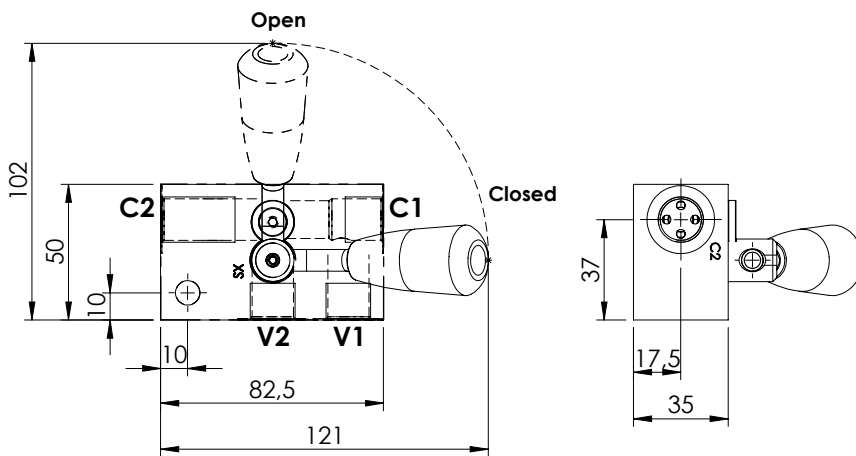
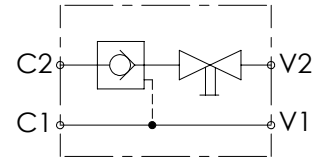
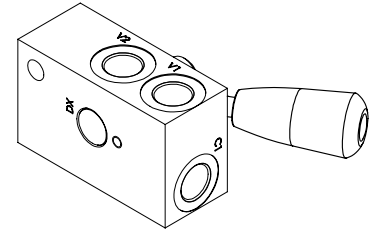
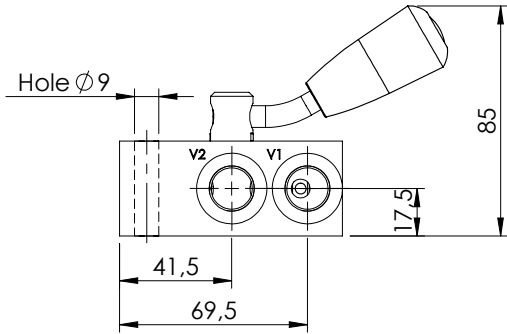
Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000080	MCSN-060-TANS-03-G12-N008	V1,V2,C1: G 1/2" C2: $\phi$ 7	3:1	8	NO
MC000077	MCSN-060-TANC-03-G12-N008	V1,V2,C1: G 1/2" C2: $\phi$ 7	3:1	8	YES

1	Relief
2	Pressure reducing
3	Sequence
4	Check
5	Pilot operated check
6	Overcentre
7	Regenerative
8	Hydr. motors, actuators & winch valves
9	Motion control
10	Check and metering
11	Shuttle and logic elements
12	Flow dividers & combiners

**PILOT OPERATED CHECK VALVE**

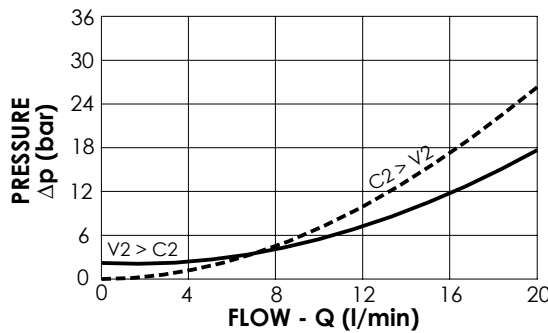
**MCSN-020-TLLC**

**SINGLE ACTING  
MANUAL SHUT OFF  
LEFT VERSION**



**SPECIFICATIONS**

Max. operating pressure:	250 bar
Rated flow:	20 l/min
Manifold:	Aluminium
Weight:	0,46 kg



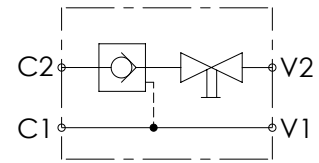
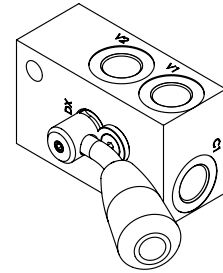
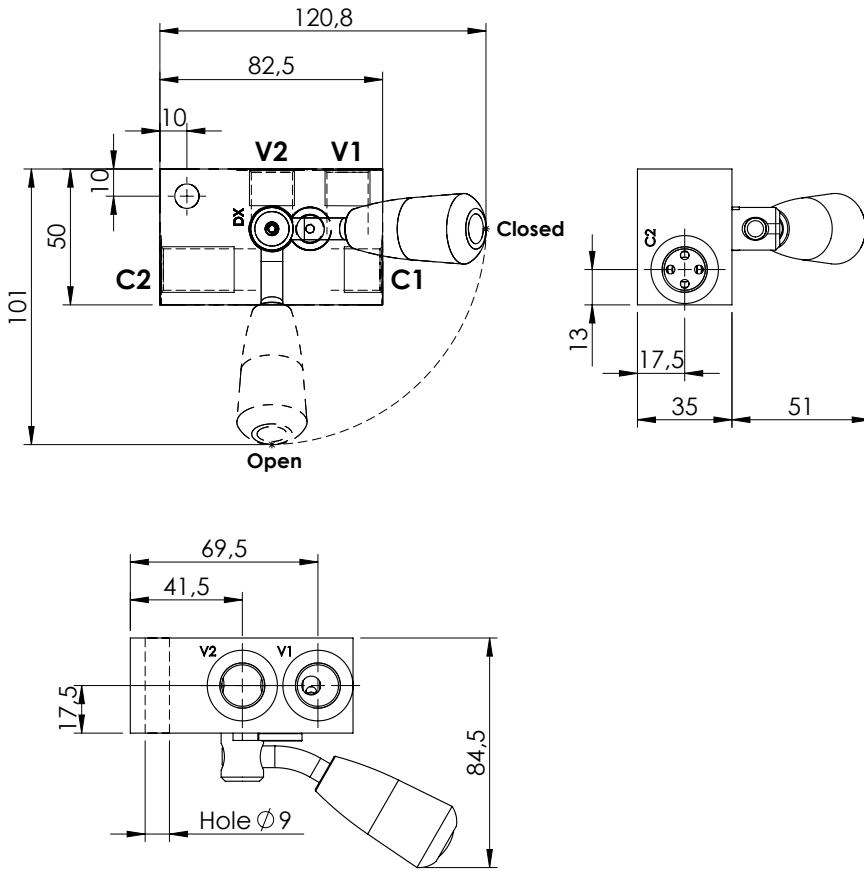
**ORDERING CODES**

Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000062	MCSN-020-TLLC-05-G38-N002	V1,V2,C1,C2 : G 3/8"	5:1	2	YES

**PILOT OPERATED CHECK VALVE**

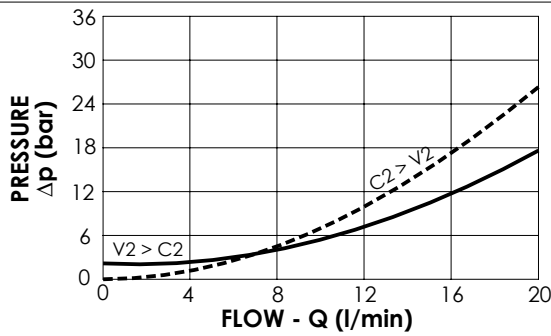
**MCSN-020-TLRC**

**SINGLE ACTING  
MANUAL SHUT OFF  
RIGHT VERSION**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	20 l/min
Manifold:	Aluminium
Weight:	0,46 kg



**ORDERING CODES**

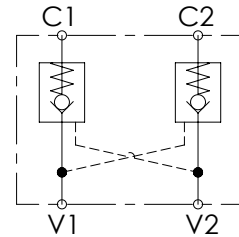
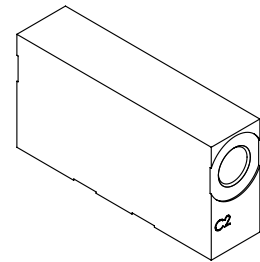
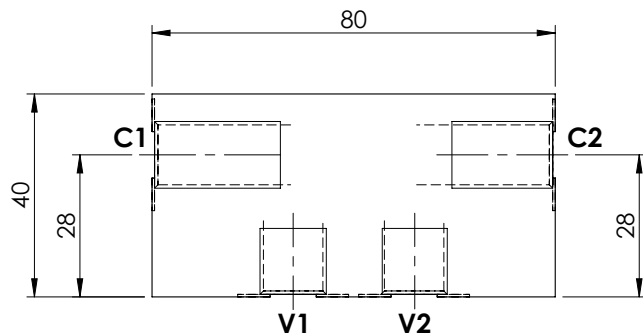
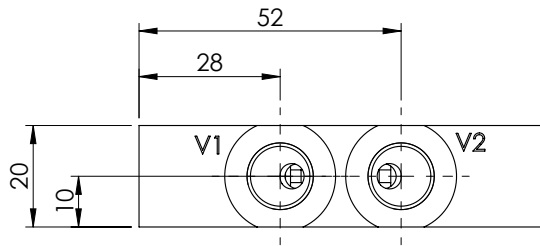
Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000061	MCSN-020-TLRC-05-G38-N002	V1,V2,C1,C2 : G 3/8"	5:1	2	YES

1	Relief
2	Pressure reducing
3	Sequence
4	Check
5	Pilot operated check
6	Overcentre
7	Regenerative
8	Hydr. motors, actuators & winch valves
9	Motion control
10	Check and metering
11	Shuttle and logic elements
12	Flow dividers & combiners

PILOT OPERATED CHECK VALVE

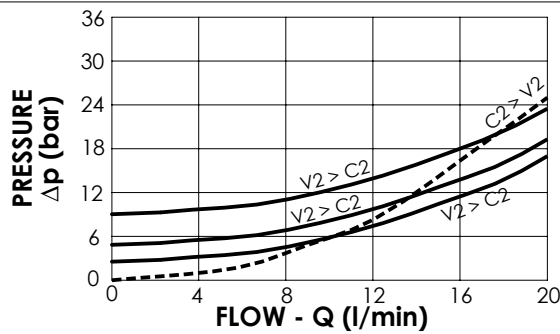
**MCDN-020-SLAS**

DOUBLE ACTING



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	20 l/min
Manifold:	Steel
Weight:	0,43 kg



**ORDERING CODES**

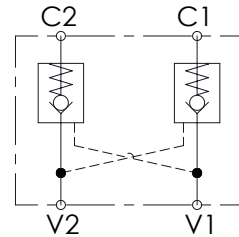
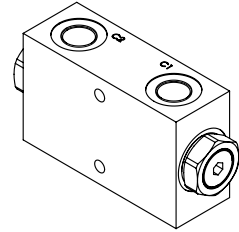
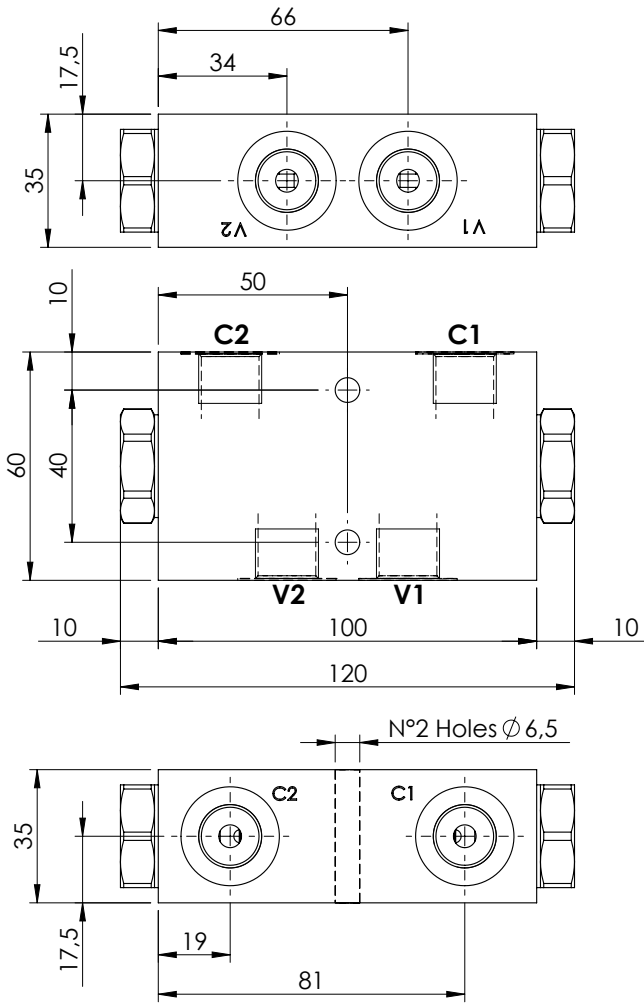
Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000069	MCDN-020-SLAS-04-G14-N003	V1,V2,C1,C2 : G 1/4"	4:1	3	NO
MC000095	MCDN-020-SLAS-04-G14-N008	V1,V2,C1,C2 : G 1/4"	4:1	8	NO
MC000098	MCDN-020-SLAS-07-G14-N005	V1,V2,C1,C2 : G 1/4"	7:1	5	NO



PILOT OPERATED CHECK VALVE

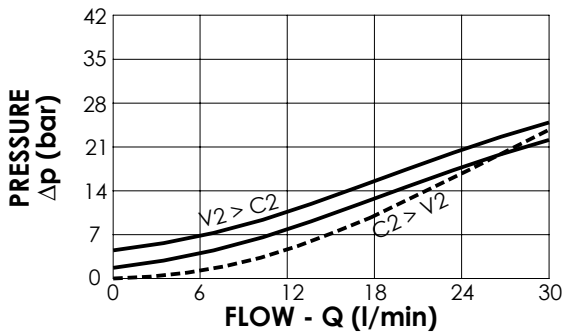
**MCDN-030-TLNS**

DOUBLE ACTING



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,67 kg



**ORDERING CODES**

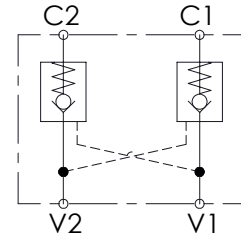
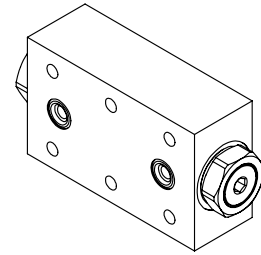
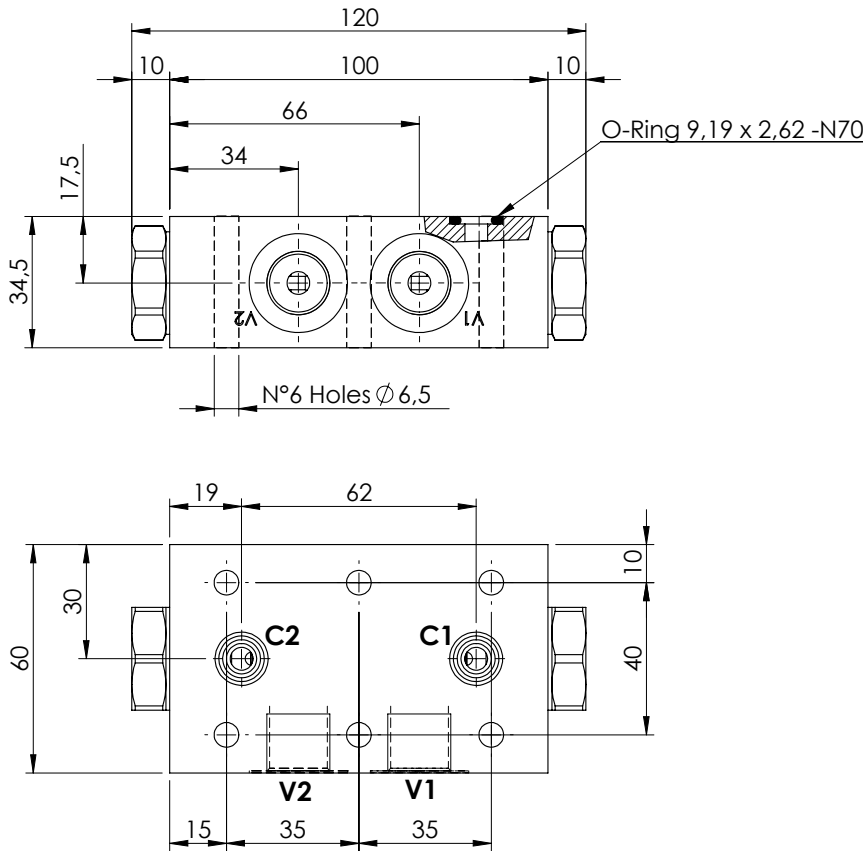
Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000002	MCDN-030-TLNS-07-G38-N001	V1,V2,C1,C2 : G 3/8"	7:1	1	NO
MC000009	MCDN-030-TLNS-07-G38-N005	V1,V2,C1,C2 : G 3/8"	7:1	5	NO
MC000010	MCDN-030-TLNC-07-G38-N005	V1,V2,C1,C2 : G 3/8"	7:1	5	YES

1	Relief
2	Pressure reducing
3	Sequence
4	Check
5	Pilot operated check
6	Overcentre
7	Regenerative
8	Hydr. motors, actuators & winch valves
9	Motion control
10	Check and metering
11	Shuttle and logic elements
12	Flow dividers & combiners

PILOT OPERATED CHECK VALVE

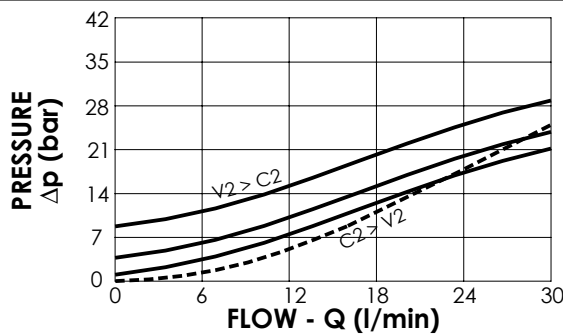
**MCDN-030-TBNS**

DOUBLE ACTING  
TWO FLANGED PORTS



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,67 kg



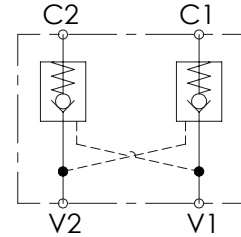
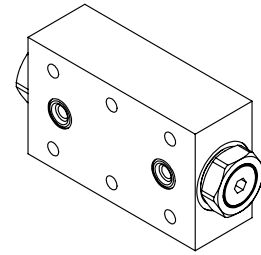
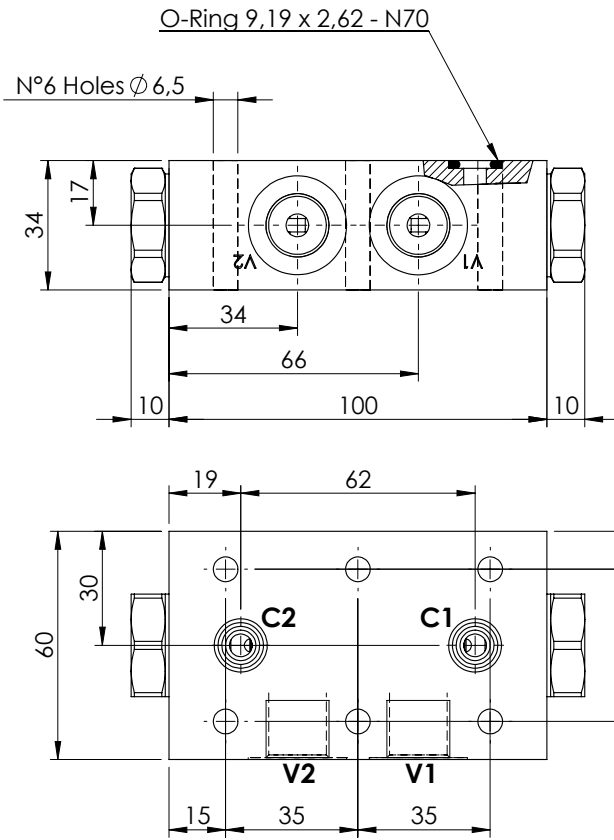
**ORDERING CODES**

Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000005	MCDN-030-TBNS-07-G38-N001	V1,V2:G 3/8" C1,C2: Ø 6	7:1	1	NO
MC000012	MCDN-030-TBNS-07-G38-N005	V1,V2:G 3/8" C1,C2: Ø 6	7:1	5	NO
MC000020	MCDN-030-TBNC-07-G38-N005	V1,V2:G 3/8" C1,C2: Ø 6	7:1	5	YES
MC000092	MCDN-030-TBNS-07-G38-N009	V1,V2:G 3/8" C1,C2: Ø 6	7:1	9	NO
MC000195	MCDN-030-TBNC-07-G38-N009	V1,V2:G 3/8" C1,C2: Ø 6	7:1	9	YES

PILOT OPERATED CHECK VALVE

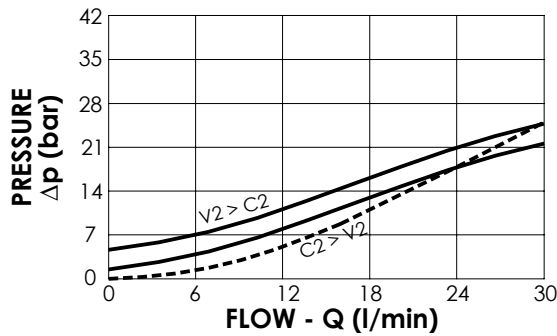
**MCDN-030-SBNS**

DOUBLE ACTING  
TWO FLANGED PORTS



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Steel
Weight:	1,49 kg



**ORDERING CODES**

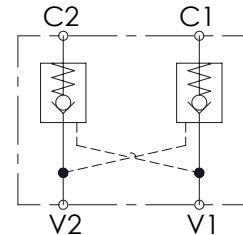
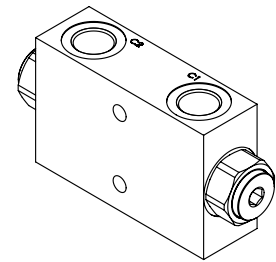
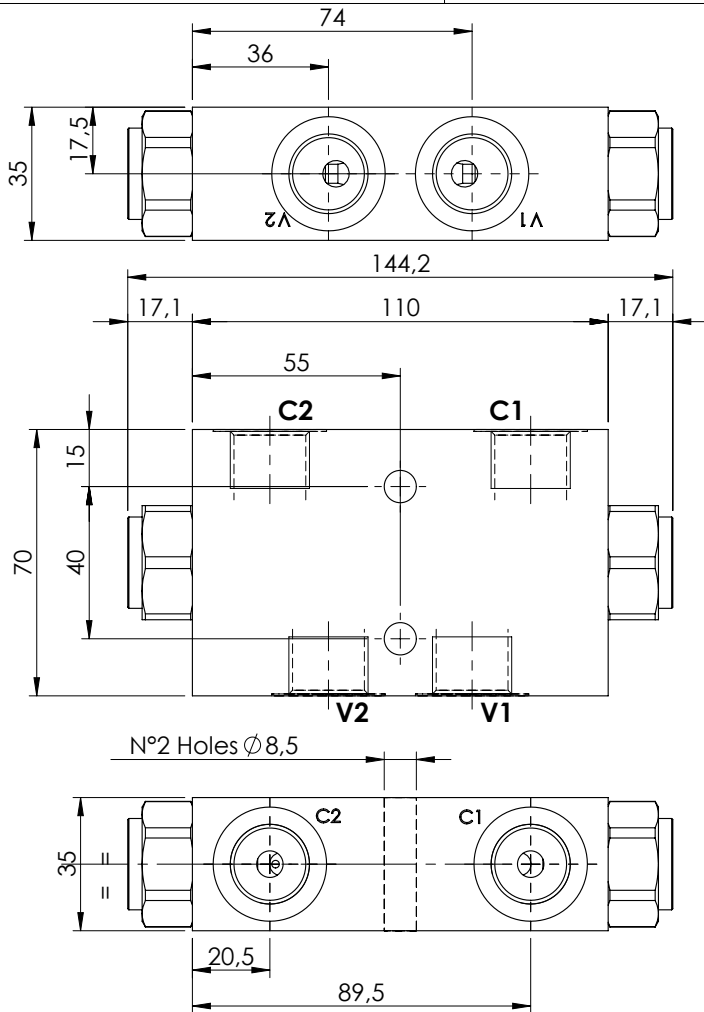
Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000036	MCDN-030-SBNS-07-G38-N005	V1,V2:G 3/8" C1,C2:Ø 6	7:1	5	NO
MC000037	MCDN-030-SBNC-07-G38-N005	V1,V2:G 3/8" C1,C2:Ø 6	7:1	5	YES
MC000038	MCDN-030-SBNS-07-G38-N001	V1,V2:G 3/8" C1,C2:Ø 6	7:1	1	NO

1	Relief
2	Pressure reducing
3	Sequence
4	Check
5	Pilot operated check
6	Overcentre
7	Regenerative
8	Hydr. motors, actuators & winch valves
9	Motion control
10	Check and metering
11	Shuttle and logic elements
12	Flow dividers & combiners

PILOT OPERATED CHECK VALVE

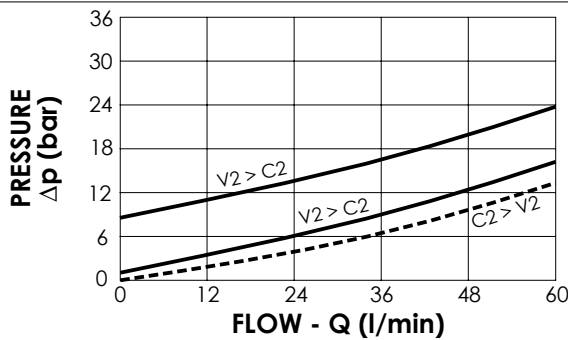
**MCDN-060-TLNS**

DOUBLE ACTING



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Aluminium
Weight:	0,9 kg



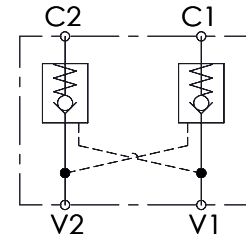
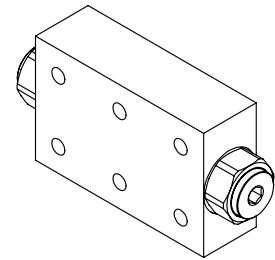
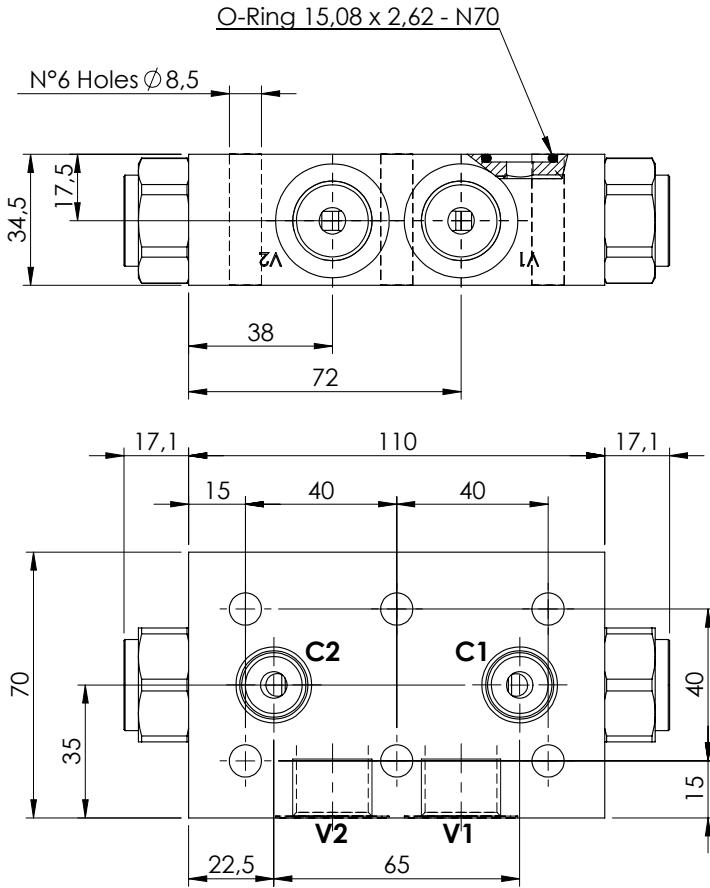
**ORDERING CODES**

Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000042	MCDN-060-TLNS-03-G12-N001	V1,V2,C1,C2 : G1/2"	3:1	1	NO
MC000040	MCDN-060-TLNS-03-G12-N008	V1,V2,C1,C2 : G1/2"	3:1	8	NO
MC000041	MCDN-060-TLNC-03-G12-N008	V1,V2,C1,C2 : G1/2"	3:1	8	YES

PILOT OPERATED CHECK VALVE

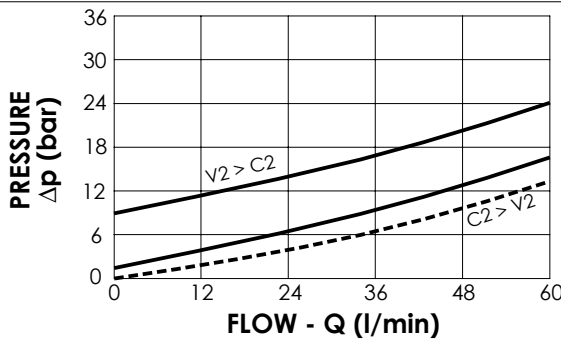
**MCDN-060-TBNS**

**DOUBLE ACTING  
TWO FLANGED PORTS**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Aluminium
Weight:	0,90 kg



**ORDERING CODES**

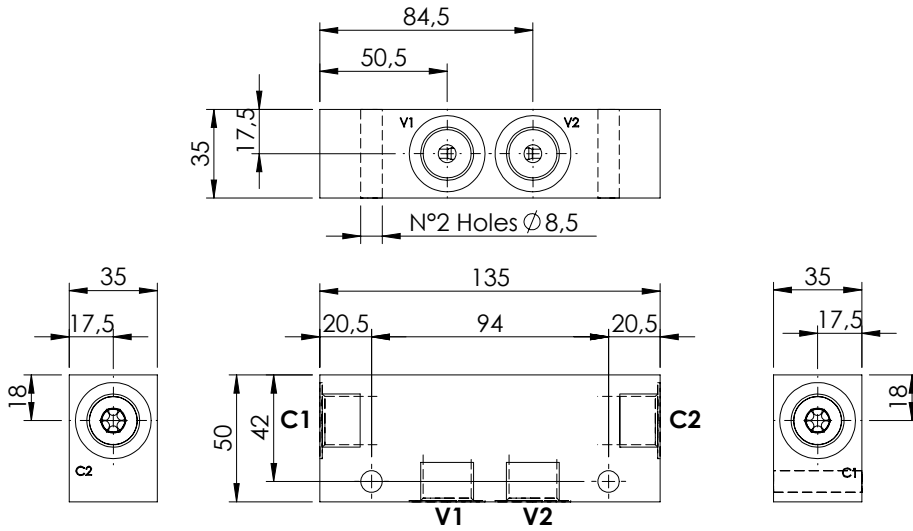
Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000029	MCDN-060-TBNS-03-G12-N001	V1,V2:G 1/2" C1,C2: Ø7	3:1	1	NO
MC000027	MCDN-060-TBNS-03-G12-N008	V1,V2:G 1/2" C1,C2: Ø7	3:1	8	NO
MC000028	MCDN-060-TBNC-03-G12-N008	V1,V2:G 1/2" C1,C2: Ø7	3:1	8	YES
MC000026	MCDN-060-TBNS-06-G12-N001	V1,V2:G 1/2" C1,C2: Ø7	6:1	1	NO
MC000025	MCDN-060-TBNS-06-G12-N008	V1,V2:G 1/2" C1,C2: Ø7	6:1	8	NO
MC000022	MCDN-060-TBNC-06-G12-N008	V1,V2:G 1/2" C1,C2: Ø7	6:1	8	YES

1	Relief
2	Pressure reducing
3	Sequence
4	Check
5	Pilot operated check
6	Overcentre
7	Regenerative
8	Hydr. motors, actuators & winch valves
9	Motion control
10	Check and metering
11	Shuttle and logic elements
12	Flow dividers & combiners

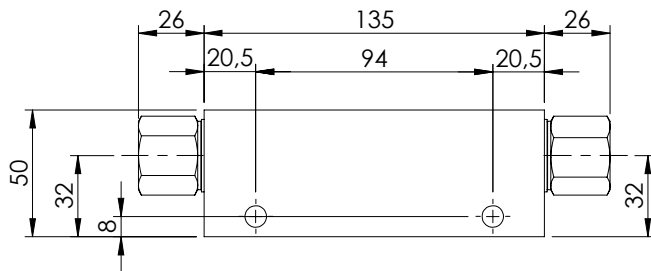
**PILOT OPERATED CHECK VALVE**

**MCDN-070-SLAS**

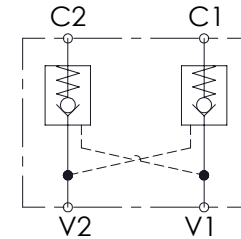
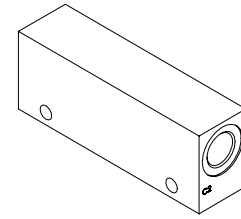
**DOUBLE ACTING**



**MC000099 - STANDARD VERSION**

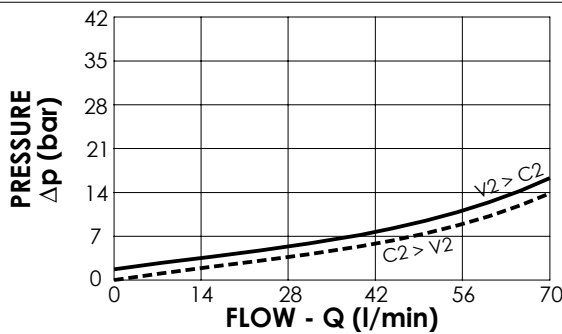


**MC000111 - MC000150 - MC000129 - LONG VERSION**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	70 l/min
Manifold:	Aluminium
Weight:	0,60 kg



**ORDERING CODES**

Quick code	Description	Main ports size	Pilot ratio	Cracking pressure (bar)	O-Ring on pilot piston
MC000099	MCDN-070-SLAS-04-G12-N001	G 1/2"	4:1	1	No
MC000111	MCDN-070-SLCS-04-G12-N001	G 1/2"	4:1	1	No
MC000150	MCDN-070-SLCS-04-G12-N008	G 1/2"	4:1	8	No
MC000129	MCDN-070-SLCS-04-G38-N001	G 3/8"	4:1	1	No

**SECTION 6**

**OVERCENTRE VALVES**



Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	CBSN-030-PARH	Poppet type	30	350	Cartridge	SAE-08-3C	6.01.010
	CBSN-040-DCNH	Differential area	40	350	Cartridge	VP000174	6.01.020
	CBSN-060-DARH	Poppet type, differential area	60	350	Cartridge	SAE-10-3C	6.01.030
	CBSN-060-DSRH	Poppet type, differential area	60	350	Cartridge	VP000161 (T-11A)	6.01.040
	CBSN-060-DCNH	Differential area	60	350	Cartridge	VP000121	6.01.050
	CBSN-100-DCNH	Differential area	100	350	Cartridge	VP000120	6.01.060
	CBSN-120-DSRH	Poppet type, differential area	120	350	Cartridge	VP000165 (T-2A)	6.01.070
	CBSN-120-DAGH	Poppet type, differential area	120	350	Cartridge	SAE-12-3C	6.01.080
	CBSN-150-DCNH	Differential area	150	350	Cartridge	VP000128	6.01.090
	CBSN-240-DSGH	Poppet type, differential area	240	420	Cartridge	VP000166 (T-17A)	6.01.100
	CBSN-300-DCNH	Differential area	300	350	Cartridge	VP000127	6.01.110
	CBSN-320-DARH	Poppet type, differential area	320	420	Cartridge	SAE-20-3C	6.01.120
		CBST-030-PAGR	Poppet type, fully compensated	30	350	Cartridge	SAE-08-3C
CBST-040-DCNH		Differential area, relief and pilot compensated	40	350	Cartridge	VP000174	6.03.140
CBST-100-DCNH		Differential area, relief and pilot compensated	100	350	Cartridge	VP000120	6.03.150
CBST-150-DCNH		Differential area, relief and pilot compensated	150	350	Cartridge	VP000128	6.03.160
CBST-300-DCNH		Differential area, relief and pilot compensated	300	350	Cartridge	VP000127	6.03.170
	MBSN-040-ALNP	Single acting	40	350	In line	G 1/4"	6.04.180
	MBSN-040-LLNA	Single acting	40	350	In line	G 3/8"	6.04.190
	MBSN-040-AANP	Single acting, one flanged ports	40	350	In line	G 1/4"	6.04.200
	MBSN-040-LDNA	Single acting, all flanged ports	40	350	In line	Ø 8	6.04.210
	MBSN-040-APNR	Single acting, banjo mounting	40	350	In line	G 3/8"	6.04.220
	MBSN-060-ALNR	Single acting	60	350	In line	G 3/8"	6.04.230
	MBSN-060-ALNE	Single acting	60	350	In line	G 3/8"	6.04.240
	MBSN-060-LLSE	Single acting	60	350	In line	G 1/2"	6.04.250
	MBSN-060-ALNE	Single acting	60	350	In line	G 1/2"	6.04.260
	MBSN-060-LLNA	Single acting, in line ports	60	350	In line	G 1/2"	6.04.270
	MBSN-060-AANR	Single acting, one flanged port	60	350	Flanged	G 3/8"	6.04.280
	MBSN-060-AATV	Single acting, one flanged port	60	350	Flanged	G 3/8"	6.04.290
	MBSN-060-ABNP	Single acting, two flanged ports	60	350	Flanged	G 3/8"	6.04.300
	MBSN-060-ABNP	Single acting, two flanged ports	60	350	Flanged	G 1/2"	6.04.310
	MBSN-150-ALNV	Single acting	150	350	In line	G 1/2"	6.04.320
	MBSN-150-ALNV	Single acting	150	350	In line	G 3/4"	6.04.330
	MBSN-150-AANV	Single acting, one flanged port	150	350	Flanged	G 3/4"	6.04.340
	MBSN-150-ABNV	Single acting, two flanged ports	150	350	Flanged	G 1/2"	6.04.350
	MBSN-150-ABNV	Single acting, two flanged ports	150	350	Flanged	G 3/4"	6.04.360
	MBSN-300-LLNP	Single acting	300	350	In line	G 1"	6.04.370

**SECTION 6**

**OVERCENTRE VALVES**



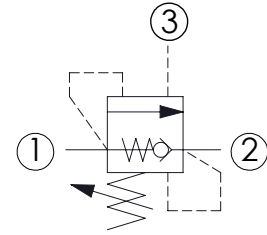
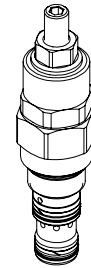
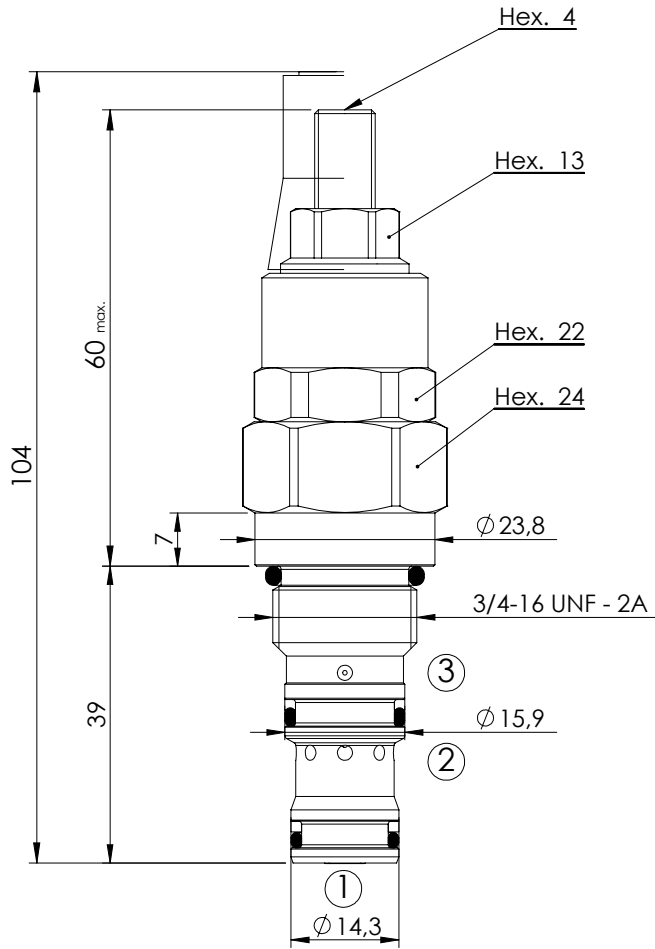
Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	MBSP-060-ZLSE	Single acting, relief compensated	60	350	In line	G 3/8"	6.05.380
	MBSP-060-ALNP	Single acting, relief compensated	60	350	In line	G 3/8"	6.05.390
	MBSP-060-ALNE	Single acting, relief compensated	60	350	In line	G 1/2"	6.05.400
	MBSP-060-ABNP	Single acting, two flanged ports, relief compens.	60	350	Flanged	G 1/2"	6.05.410
	MBSP-150-ZLSE	Single acting	150	350	In line	G 3/4"	6.05.420
	MBST-150-AANV	Single acting, one flanged port, relief compens.	150	350	Flanged	G 3/4"	6.06.430
	MBST-150-ABNV	Single acting, two flanged ports, fully compens.	150	350	Flanged	G 1/2"	6.06.440
	MBST-150-ABNV	Single acting, two flanged ports, fully compens.	150	350	Flanged	G 3/4"	6.06.450
	MBDN-040-ALNP	Double acting	40	350	In line	G 1/4"	6.07.460
	MBDN-040-ALNR	Double acting	40	350	In line	G 1/4"	6.07.470
	MBDN-040-ZLNN	Double acting	40	350	In line	G 3/8"	6.07.480
	MBDN-040-AANR	Double acting, one flanged port	40	350	Flanged	G 1/4"	6.07.490
	MBDN-040-ABNP	Double acting, two flanged ports	40	350	Flanged	G 1/4"	6.07.500
	MBDN-040-ABNR	Double acting, two flanged ports	40	350	Flanged	G 1/4"	6.07.510
	MBDN-040-ABNV	Double acting, two flanged ports	40	350	Flanged	G 3/8"	6.07.520
	MBDN-040-ZBNN	Double acting, two flanged ports	40	350	Flanged	G 3/8"	6.07.530
	MBDN-040-ZDNA	Double acting, all flanged ports	40	350	Flanged	Ø 8	6.07.540
	MBDN-060-ALNR	Double acting	60	350	In line	G 3/8"	6.07.550
	MBDN-060-ALNR	Double acting	60	350	In line	G 1/2"	6.07.560
	MBDN-060-ZLDE	Double acting	60	350	In line	G 1/2"	6.07.570
	MBDN-060-AANR	Double acting, one flanged port	60	350	Flanged	G 3/8"	6.07.580
	MBDN-060-ABNR	Double acting, two flanged ports	60	350	Flanged	G 3/8"	6.07.590
	MBDN-060-ABNR	Double acting, two flanged ports	60	350	Flanged	G 1/2"	6.07.600
	MBDN-060-ZDNA	Double acting, all flanged ports	60	350	Flanged	Ø10	6.07.610
	MBDN-100-ALDE	Double acting	100	350	In line	G 1/2"	6.07.620
	MBDN-100-ABNR	Double acting, two flanged ports	100	350	Flanged	Ø9	6.07.630
	MBDN-150-ZLDE	Double acting	150	350	In line	G 3/4"	6.07.640
	MBDN-150-ZLNP	Double acting	150	350	In line	G 3/4"	6.07.650
	MBDN-150-ZBNV	Double acting, two flanged ports	150	350	Flanged	G 3/4"	6.07.660
	MBDN-300-ZLNR	Double acting	150	350	In line	G 1"	6.07.670
	MBDP-060-ALNR	Double acting, relief compensated	60	350	In line	G 3/8"	6.08.680
	MBDP-060-ALNR	Double acting, relief compensated	60	350	In line	G 1/2"	6.08.690
	MBDP-060-ZLDE	Double acting, relief compensated	60	350	In line	G 1/2"	6.08.700
	MBDP-150-ZLDE	Double acting, relief compensated	150	350	In line	G 3/4"	6.08.710
	MBDT-150-ZBNV	Double acting, two flanged ports, fully compens.	150	350	Flanged	G 3/4"	6.09.720
		MBDN-500-ABNR	Double acting	500	420	Flanged	1 1/4" SAE 6000
MBDN-500-ABNR		Double acting	500	420	Flanged	1 1/4" SAE 6000	6.10.740



OVERCENTRE VALVE

**CBSN-030-PARH**

POPPET TYPE

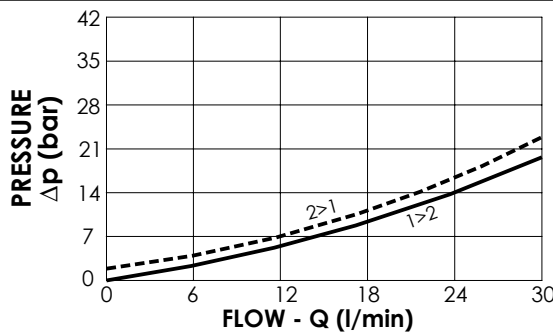
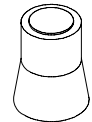


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	SAE-08-3C
Weight:	0,18 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting:	at least 1.3 times the load induced pressure
Installation torque:	45 - 50 Nm
Seal kit:	RA700086

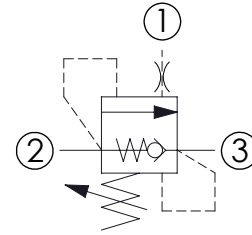
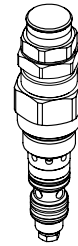
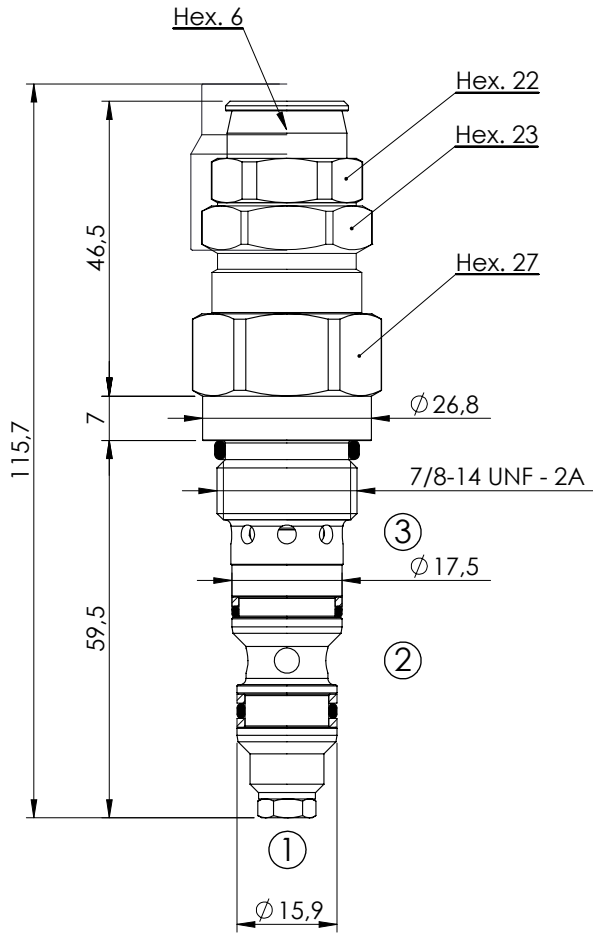
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000007	CBSN-030-PARH-04-S08-N350	4:1	350	170 - 350	134
CB000023	CBSN-030-PARH-04-S08-N200	4:1	200	70-210	110

OVERCENTRE VALVE

**CBSN-040-DCNH**

DIFFERENTIAL AREA

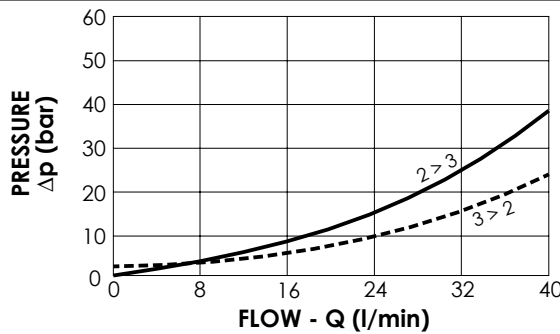
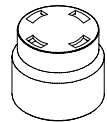


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Cavity:	VP000174
Weight:	0,26 kg

**SEALING CAP**

Ordering code:  
PT000258



**NOTES**

Setting:	at least 1.3 times the load induced pressure
Installation torque:	60 - 75 Nm
Seal kit:	RD700174

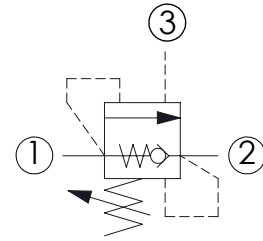
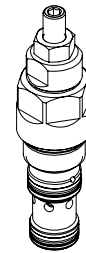
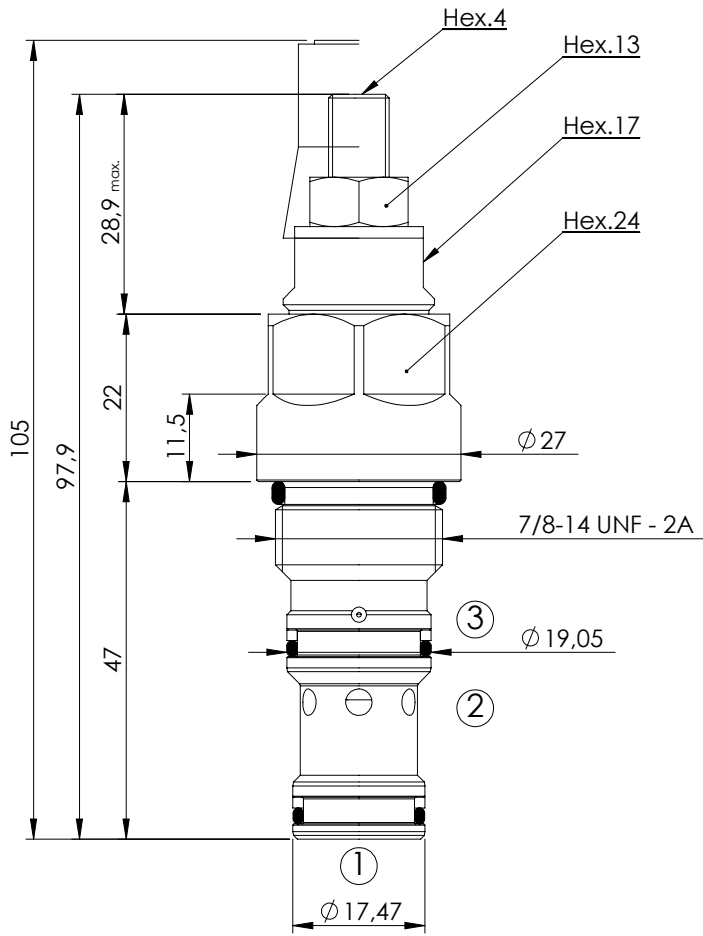
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000016	CBSN-040-DCNH-04-174-N350	4,1:1	350	100-350	145

OVERCENTRE VALVE

**CBSN-060-DARH**

POPPET TYPE  
DIFFERENTIAL AREA

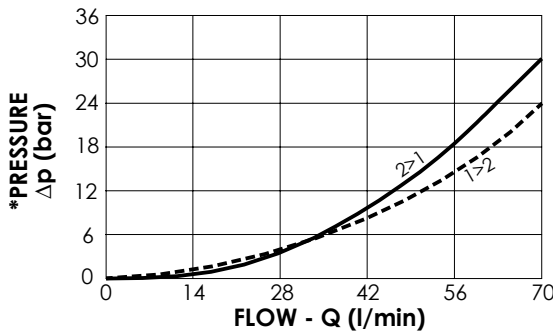
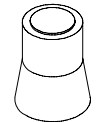


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	SAE-10-3C
Weight:	0,2 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

Installation torque: 50 - 60 Nm

Seal kit: RA700087

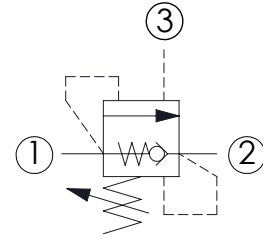
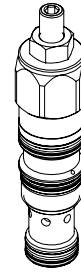
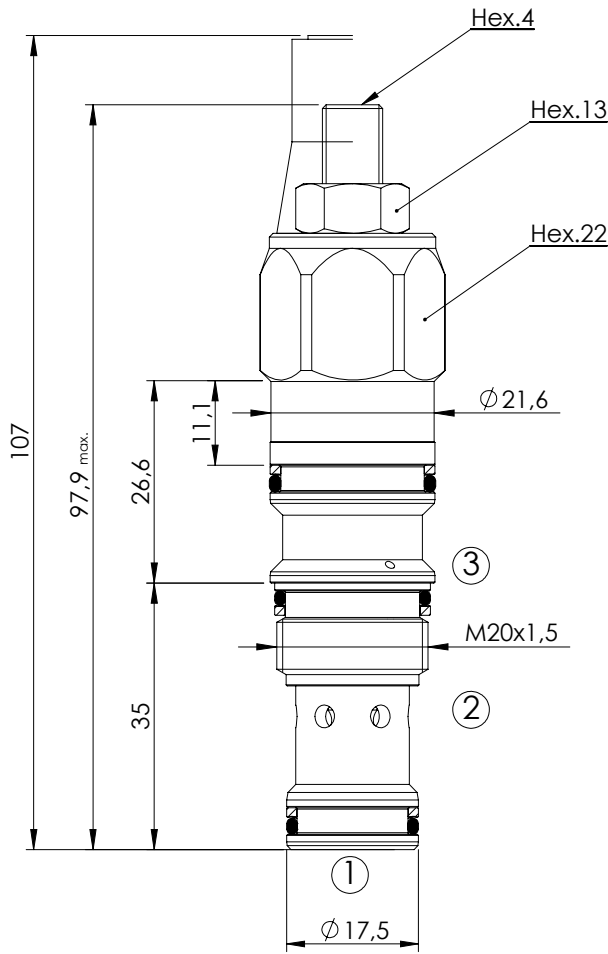
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000012	CBSN-060-DARH-03-S10-N350	3:1	350	140 - 350	197
CB000033	CBSN-060-DARH-03-S10-N200	3:1	200	70 - 210	147
CB000057	CBSN-060-DARH-08-S10-N350	8:1	350	140 - 350	93
CB000058	CBSN-060-DARH-08-S10-N200	8:1	200	70 - 210	55

OVERCENTRE VALVE

**CBSN-060-DSRH**

POPPET TYPE  
DIFFERENTIAL AREA

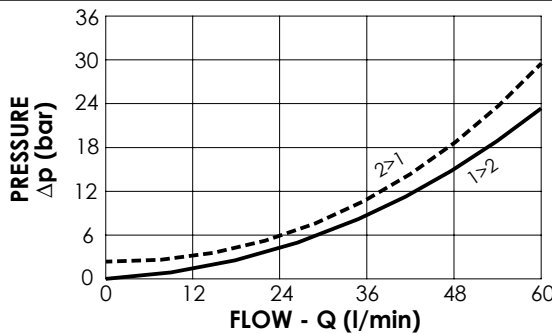
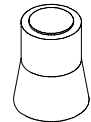


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	VP000161 (SUN T-11A)
Weight:	0,17 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

- Setting: at least 1.3 times the load induced pressure
- Installation torque: 40 - 50 Nm
- Turn anticlockwise to increase the setting
- Seal kit: RC700161

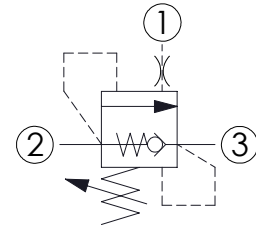
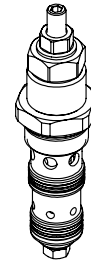
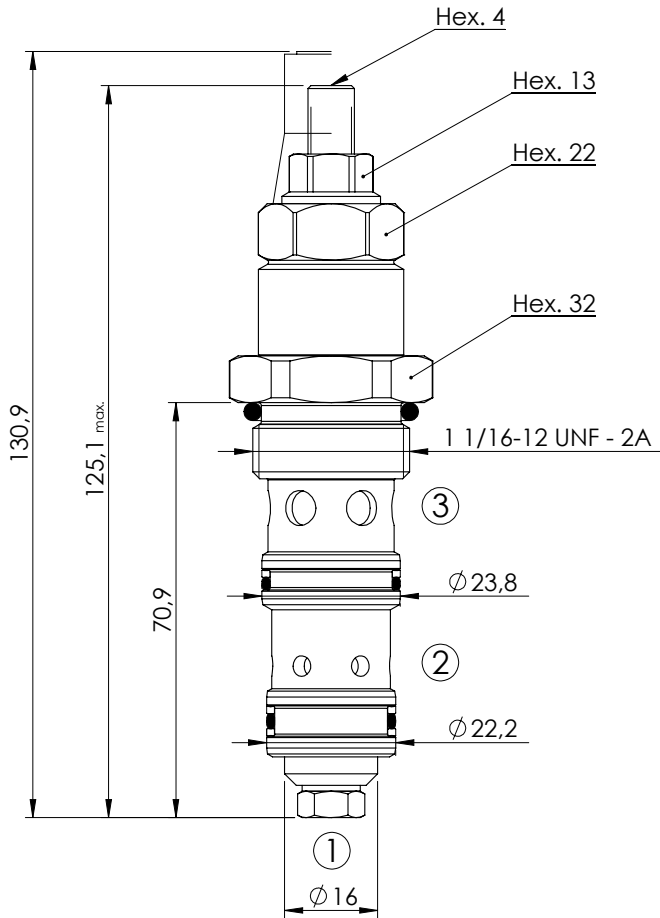
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000024	CBSN-060-DSRH-03-161-N350	3:1	350	140 - 350	197
CB000034	CBSN-060-DSRH-03-161-N200	3:1	200	70 - 210	147
CB000072	CBSN-060-DSRH-08-161-N350	8:1	350	140 - 350	93
CB000073	CBSN-060-DSRH-08-161-N200	8:1	200	70 - 210	55

OVERCENTRE VALVE

**CBSN-060-DCNH**

DIFFERENTIAL AREA

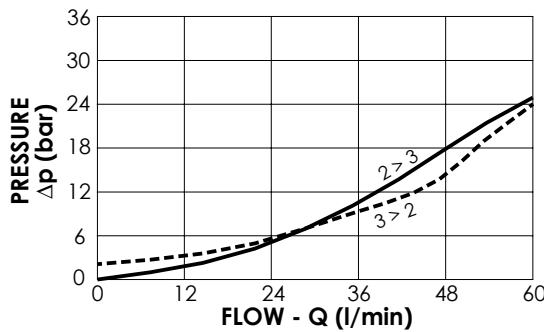
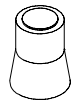


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	VP000121
Weight:	0,31 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

Installation torque: 116 - 128 Nm

Seal kit: RD700121

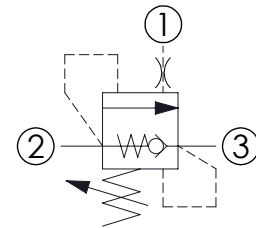
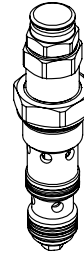
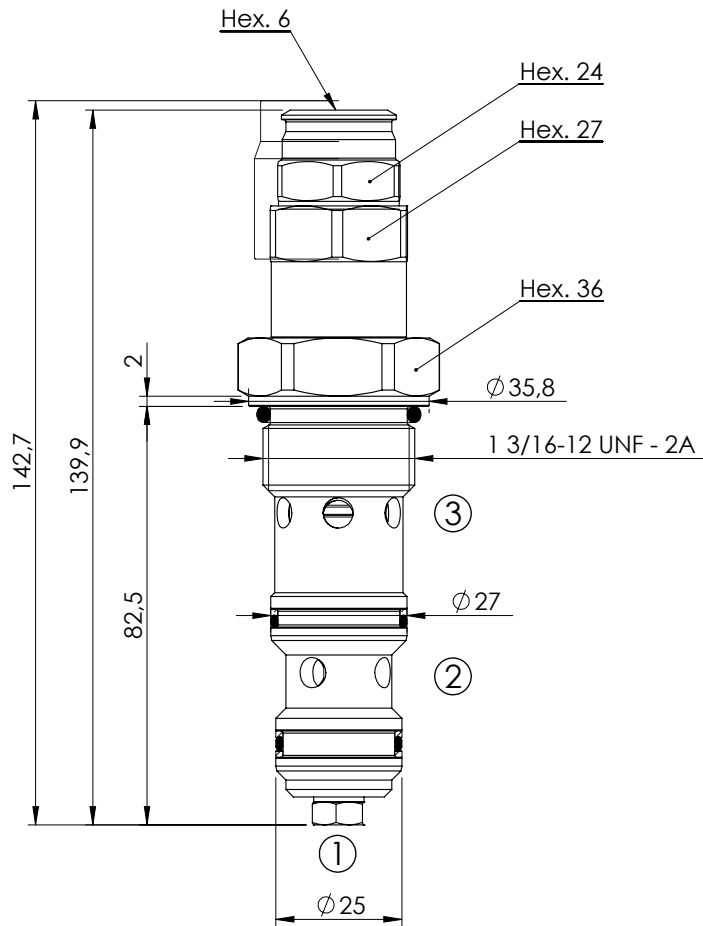
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000002	CBSN-060-DCNH-04-121-N350	4,2:1	350	100-350	139
CB000003	CBSN-060-DCNH-04-121-N200	4,2:1	200	60-210	62

OVERCENTRE VALVE

**CBSN-100-DCNH**

DIFFERENTIAL AREA

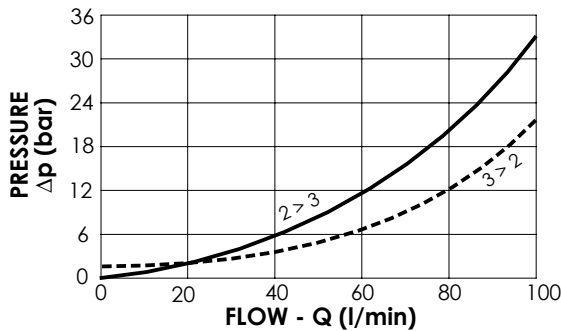
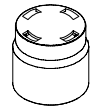


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Cavity:	VP000120
Weight:	0,52 kg

**SEALING CAP**

Ordering code:  
PT000243



**NOTES**

Setting: at least 1.3 times the load induced pressure

Installation torque: 185 - 200 Nm

Seal kit: RD700120

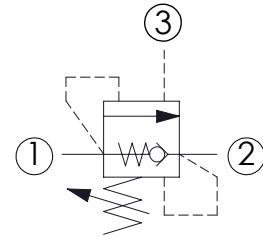
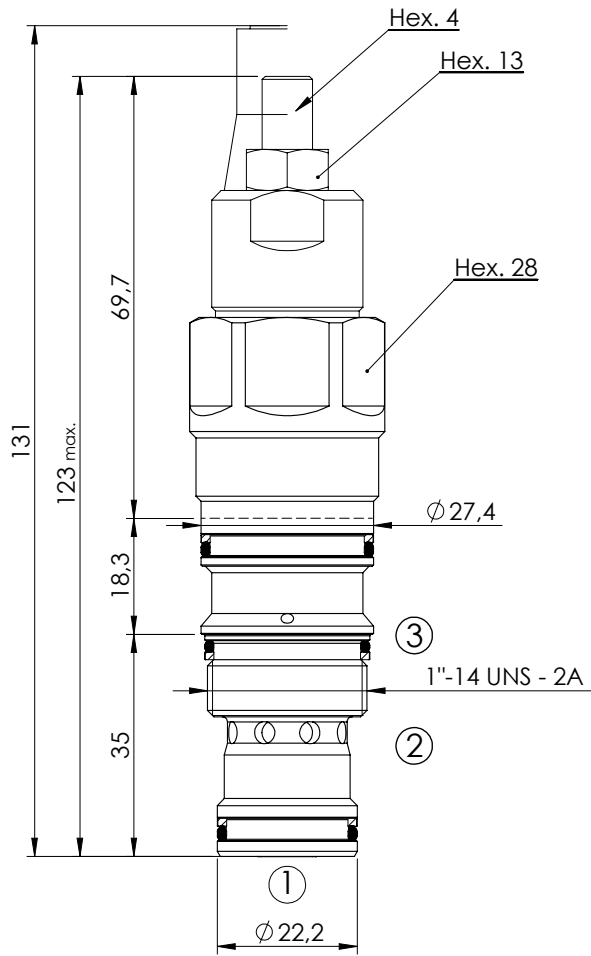
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000015	CBSN-100-DCNH-04-120-N350	3,8:1	350	100-350	118
CB000113	CBSN-100-DCNH-04-120-N200	3,8:1	200	60-210	68
CB000094	CBSN-100-DCNH-08-120-N350	8:1	350	100-350	132

OVERCENTRE VALVE

**CBSN-120-DSRH**

POPPET TYPE  
DIFFERENTIAL AREA

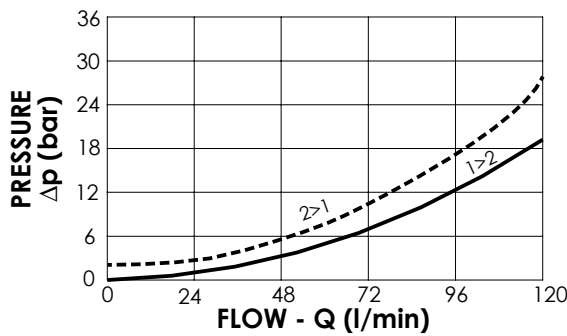
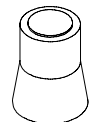


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	120 l/min
Cavity:	VP000165 (SUN T-2A)
Weight:	0,36 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

- Setting: at least 1.3 times the load induced pressure
- Installation torque: 58 - 68 Nm
- Turn anticlockwise to increase the setting
- Seal kit: RC700165

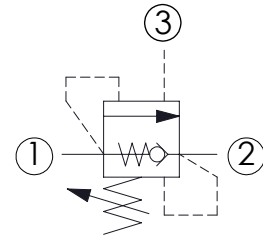
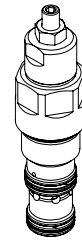
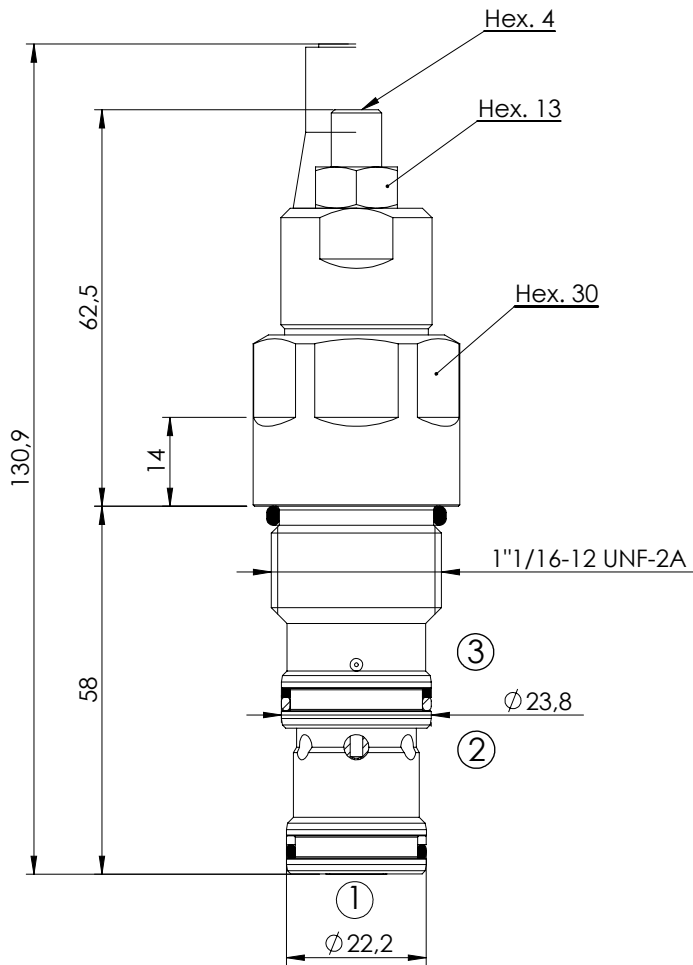
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000029	CBSN-120-DSRH-04-165-N350	4:1	350	140 - 350	174
CB000035	CBSN-120-DSRH-04-165-N200	4:1	200	70 - 210	58
CB000085	CBSN-120-DSRH-08-165-N350	8:1	350	140 - 350	72
CB000093	CBSN-120-DSRH-08-165-N200	8:1	200	70 - 210	44

OVERCENTRE VALVE

**CBSN-120-DAGH**

DIFFERENTIAL AREA  
POPPET TYPE

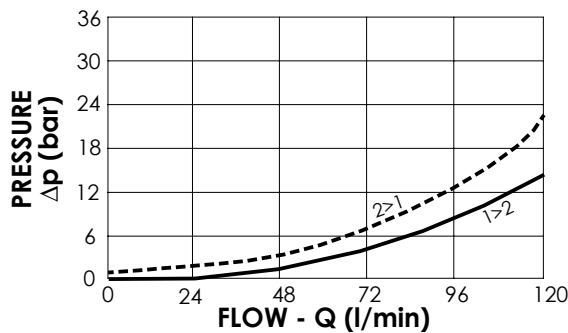
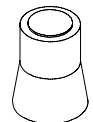


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	120 l/min
Cavity:	SAE-12-3C
Weight:	0,38 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

Installation torque: **80 - 95 Nm**

Seal kit: **RA700088**

Turn clockwise to increase the setting

**ORDERING CODES**

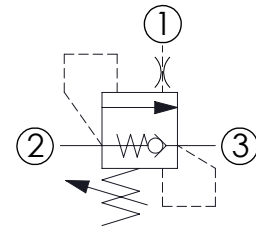
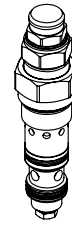
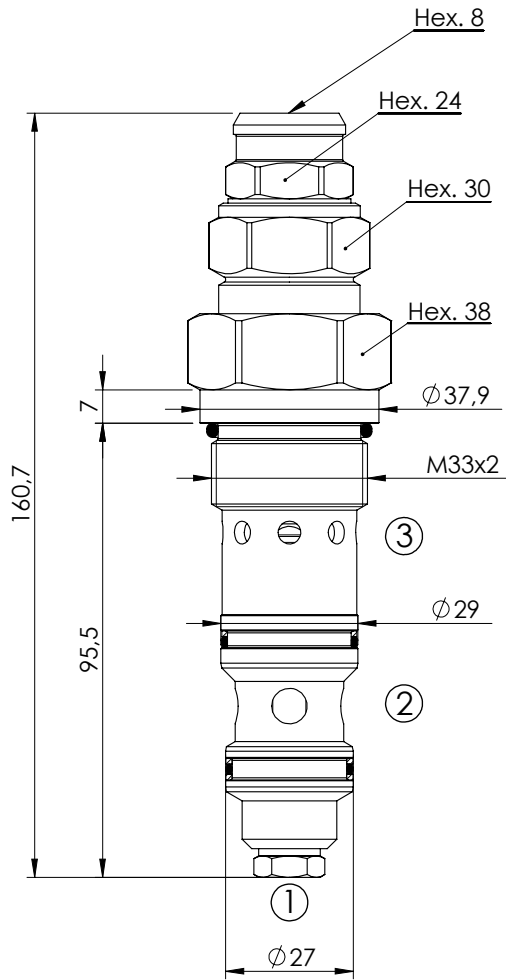
Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000045	CBSN-120-DAGH-04-S12-N350	4:1	350	140 - 350	174
CB000066	CBSN-120-DAGH-04-S12-N200	4:1	200	70 - 210	58
CB000062	CBSN-120-DAGH-08-S12-N350	8:1	350	140 - 350	72
CB000067	CBSN-120-DAGH-08-S12-N200	8:1	200	70 - 210	44



OVERCENTRE VALVE

**CBSN-150-DCNH**

DIFFERENTIAL AREA

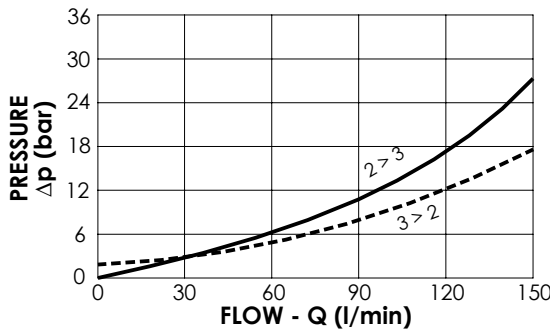
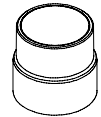


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Cavity:	VP000128
Weight:	0,7 kg

**SEALING CAP**

Ordering code:  
ST000012



**NOTES**

Setting: at least 1.3 times the load induced pressure

Installation torque: 200 - 230 Nm

Seal kit: RD900128

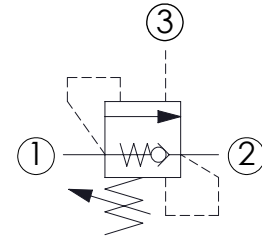
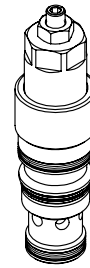
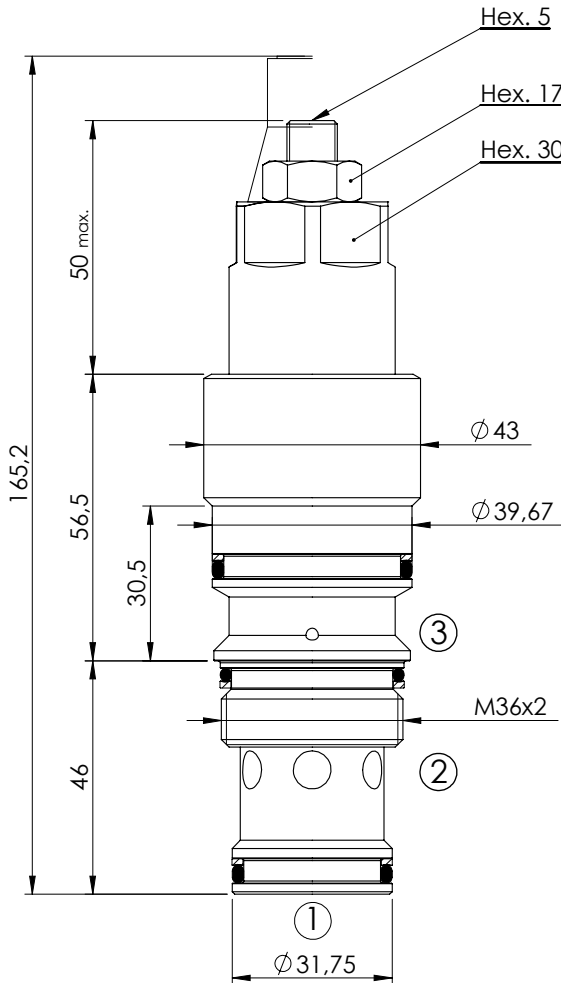
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000004	CBSN-150-DCNH-04-128-N350	4:1	350	100-350	103
CB000043	CBSN-150-DCNH-08-128-N350	8:1	350	100-350	82

OVERCENTRE VALVE

**CBSN-240-DSGH**

POPPET TYPE  
DIFFERENTIAL AREA

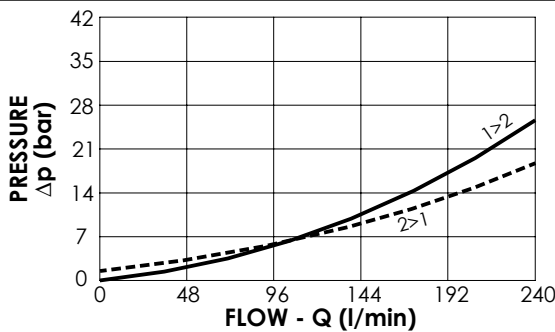
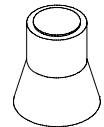


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	240 l/min
Cavity:	VP000166 (SUN T-17A)
Weight:	0,73 kg

**SEALING CAP**

Ordering code:  
AT000021



**NOTES**

- Setting: at least 1.3 times the load induced pressure
- Installation torque: 135 - 150 Nm
- Turn anticlockwise to increase the setting
- Seal kit: RC700166

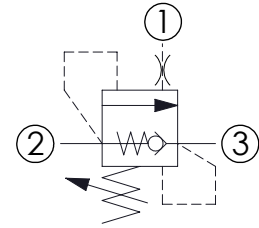
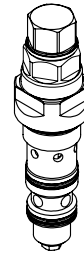
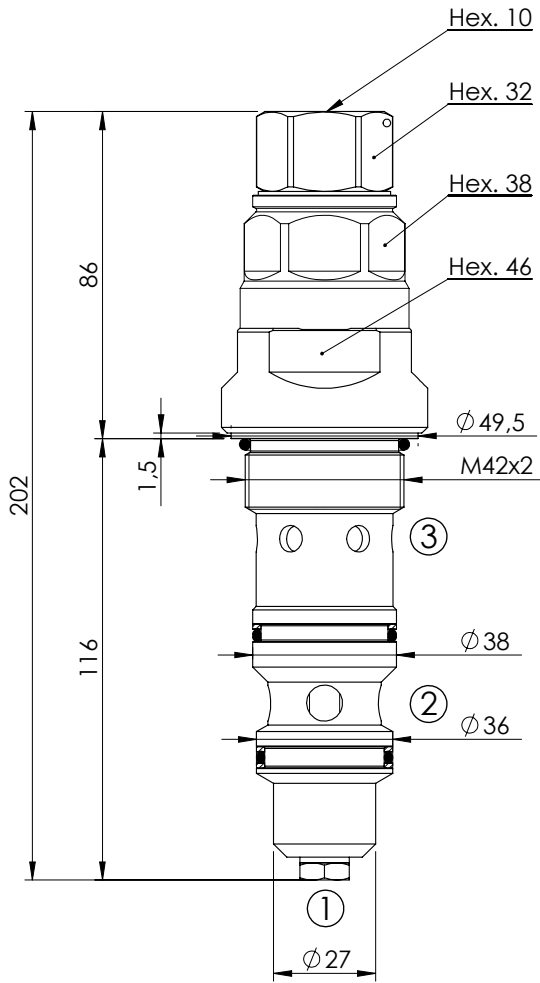
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000028	CBSN-240-DSGH-04-166-N350	4:1	350	140-350	114

OVERCENTRE VALVE

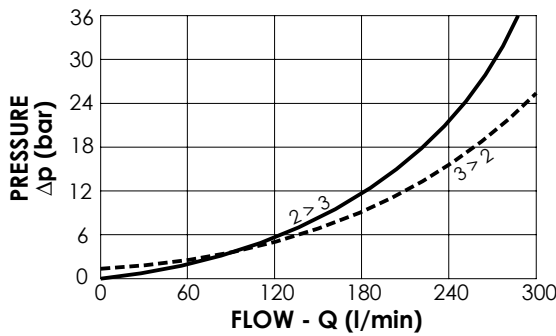
**CBSN-300-DCNH**

DIFFERENTIAL AREA



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	300 l/min
Cavity:	VP000127
Weight:	1,5 kg



**NOTES**

Setting:	at least 1.3 times the load induced pressure
Installation torque:	246 - 272 Nm
Seal kit:	RD900127

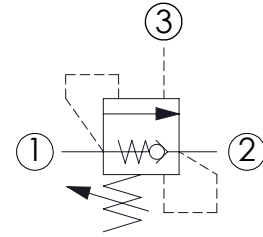
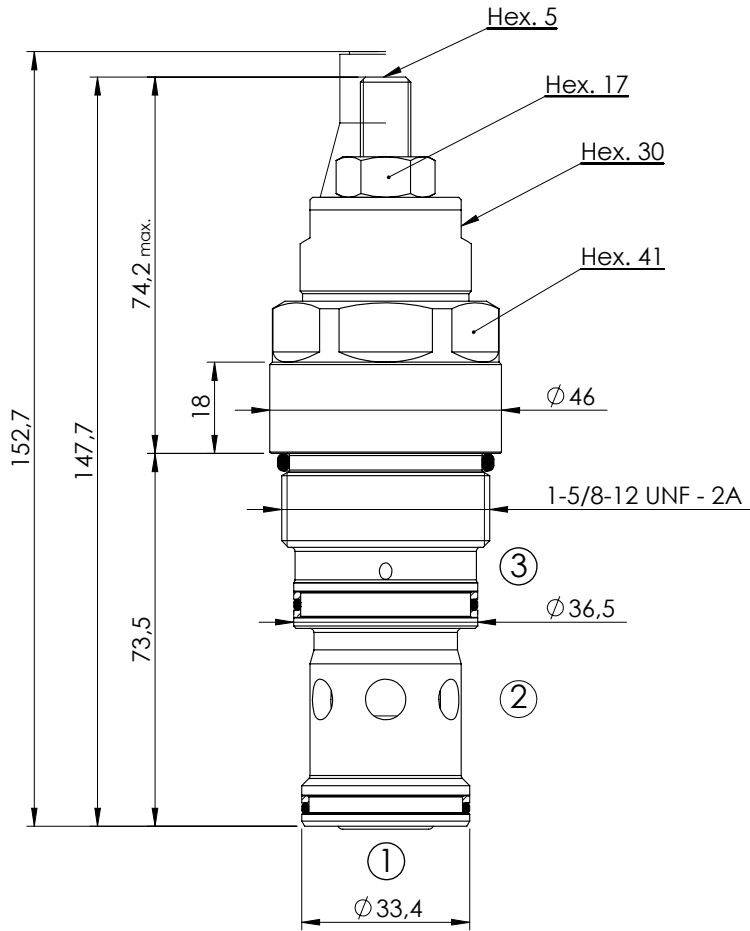
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000005	CBSN-300-DCNH-04-127-N350	4:1	350	100-350	75

OVERCENTRE VALVE

**CBSN-320-DARH**

DIFFERENTIAL AREA  
POPPET TYPE

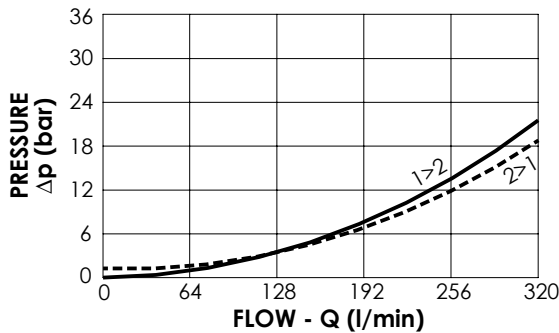
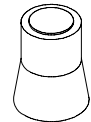


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	320 l/min
Cavity:	SAE-20-3C
Weight:	0,87 kg

**SEALING CAP**

Ordering code:  
AT000021



**NOTES**

Setting:	at least 1.3 times the load induced pressure
Installation torque:	280 - 300 Nm
Seal kit:	RB900090

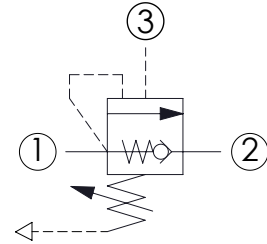
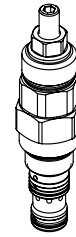
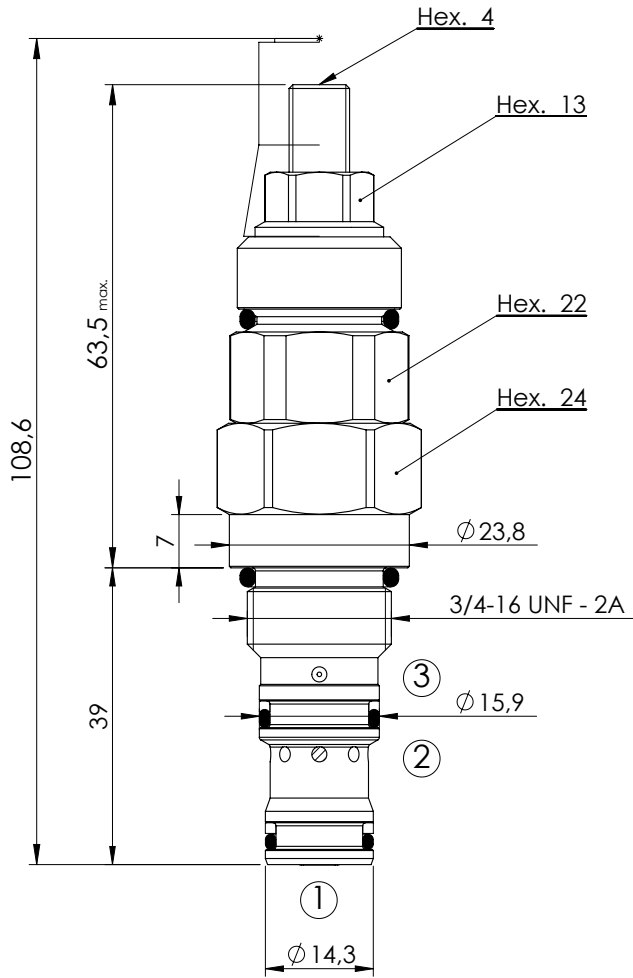
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000025	CBSN-320-DARH-04-S20-N350	4:1	350	140 - 350	120
CB000026	CBSN-320-DARH-04-S20-N200	4:1	200	70-210	47
CB000027	CBSN-320-DARH-08-S20-N350	8:1	350	140 - 350	87

OVERCENTRE VALVE

**CBST-030-PARH**

POPPET TYPE  
FULLY COMPENSATED

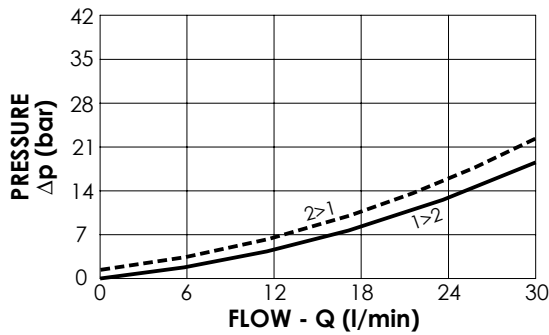
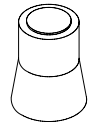


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	SAE-08-3C
Weight:	0,19 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

Installation torque: 45 - 50 Nm

Seal kit: RA700086

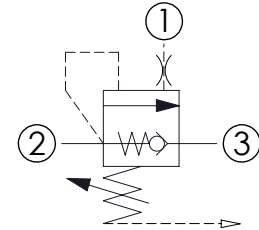
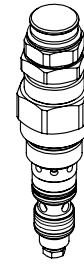
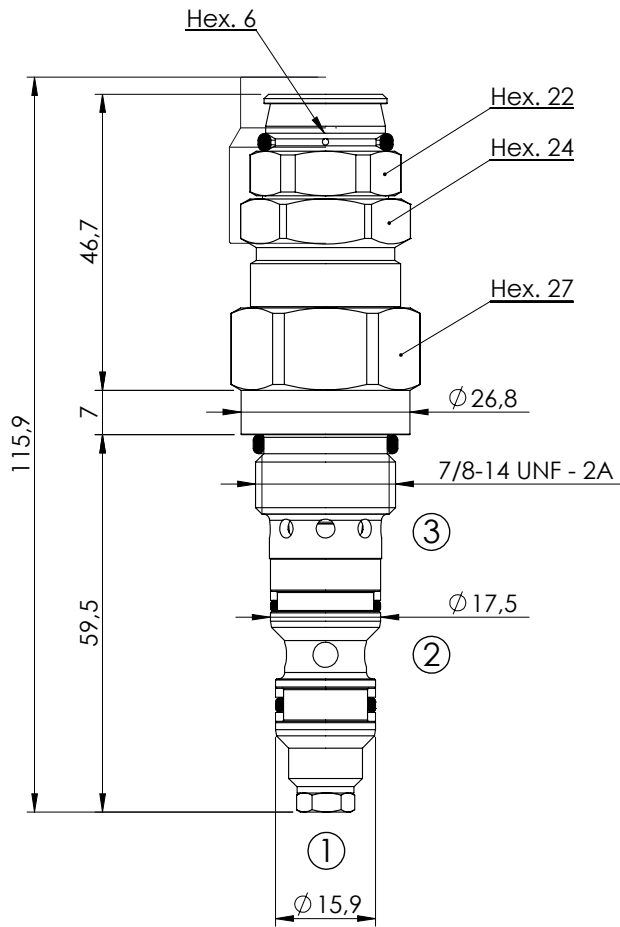
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000011	CBST-030-PARH-04-S08-N350	4:1	350	170 - 350	134
CB000070	CBST-030-PARH-04-S08-N200	4:1	200	70-210	95

OVERCENTRE VALVE

**CBST-040-DCNH**

FULLY COMPENSATED

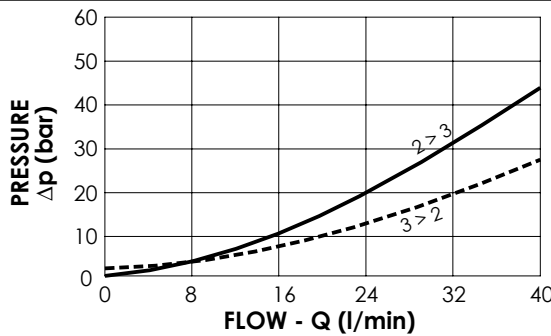
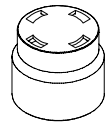


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Cavity:	VP000174
Weight:	0,26 kg

**SEALING CAP**

Ordering code:  
PT000258



**NOTES**

Setting:	at least 1.3 times the load induced pressure
Installation torque:	80 - 85 Nm
Seal kit:	RD700174

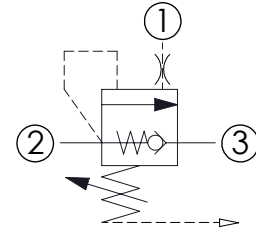
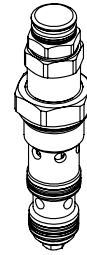
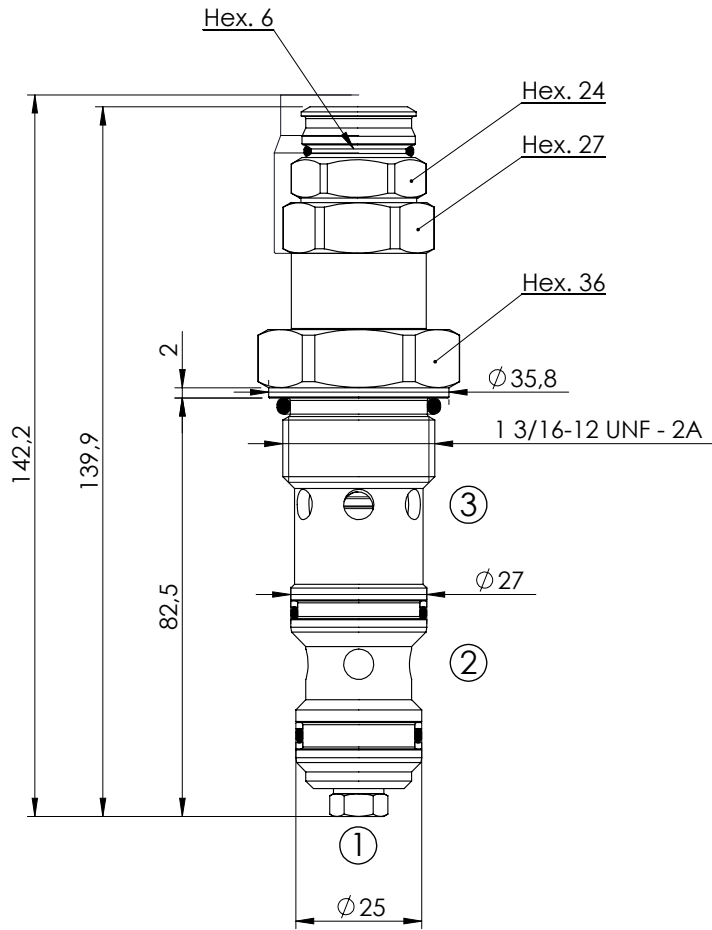
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000008	CBST-040-DCNH-04-174-N350	4,1:1	350	100-350	144
CB000051	CBST-040-DCNH-04-174-N200	4,1:1	200	60-210	66

OVERCENTRE VALVE

**CBST-100-DCNH**

FULLY COMPENSATED

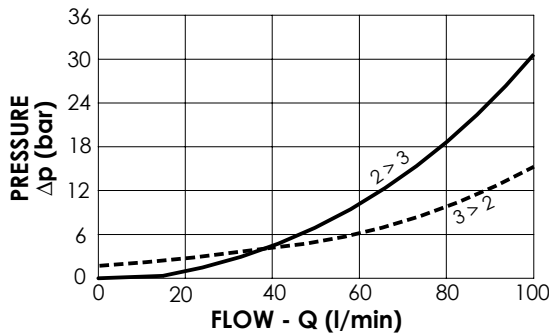
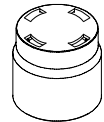


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Cavity:	VP000120
Weight:	0,51 kg

**SEALING CAP**

Ordering code:  
**PT000243**



**NOTES**

Setting:	at least 1.3 times the load induced pressure
Installation torque:	140 - 195 Nm
Seal kit:	RD700120

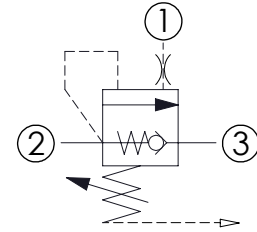
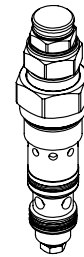
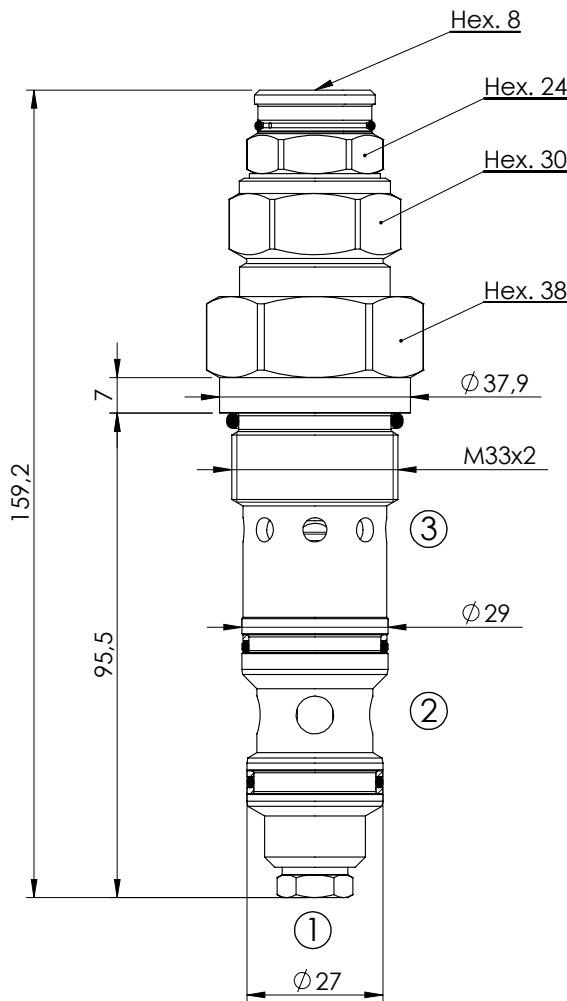
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000001	CBST-100-DCNH-04-120-N350	3,8:1	350	100-350	118
CB000102	CBST-100-DCNH-08-120-N350	8:1	350	100-350	205

OVERCENTRE VALVE

**CBST-150-DCNH**

FULLY COMPENSATED

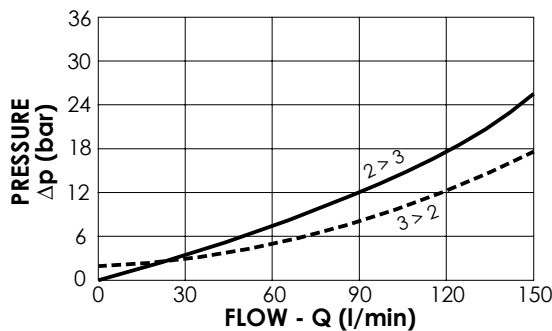
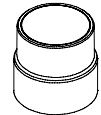


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Cavity:	VP000128
Weight:	0,7 kg

**SEALING CAP**

Ordering code:  
ST000012



**NOTES**

Setting: at least 1.3 times the load induced pressure

Installation torque: 170 - 200 Nm

Seal kit: RD900128

**ORDERING CODES**

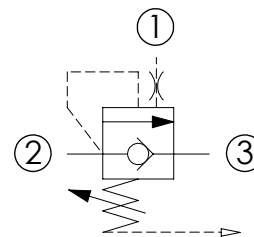
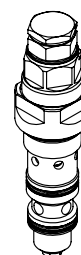
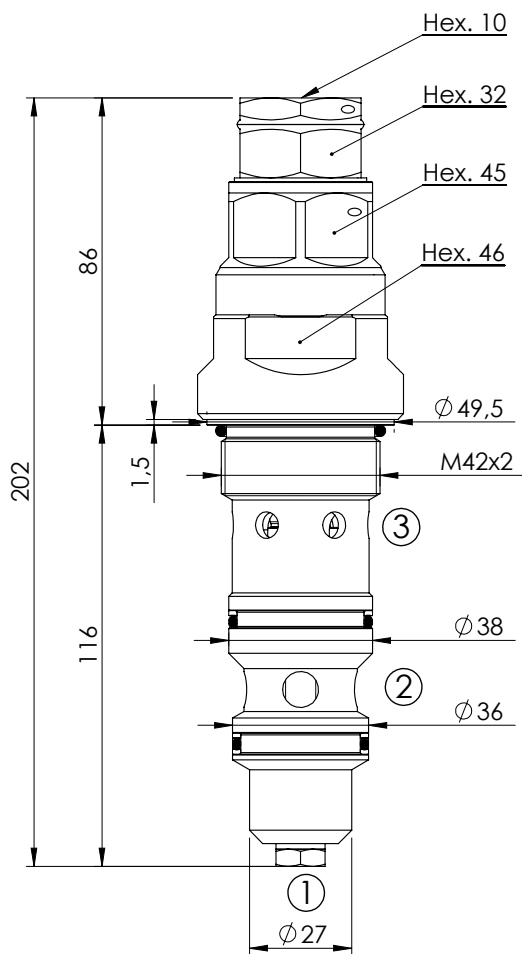
Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000014	CBST-150-DCNH-04-128-N350	4:1	350	100-350	103
CB000022	CBST-150-DCNH-08-128-N350	8:1	350	100-350	100



OVERCENTRE VALVE

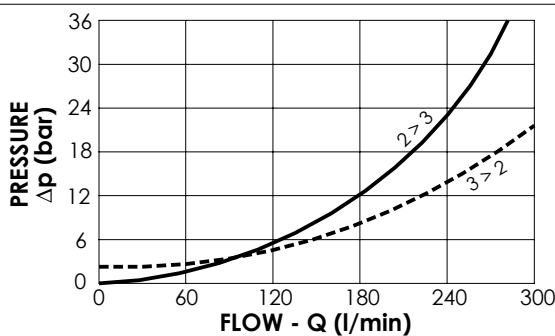
**CBST-300-DCNH**

FULLY COMPENSATED



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	300 l/min
Cavity:	VP000127
Weight:	1,49 kg



**NOTES**

Setting:	at least 1.3 times the load induced pressure
Installation torque:	246 - 272 Nm
Seal kit:	RD900127

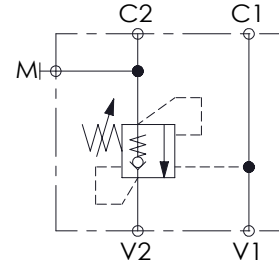
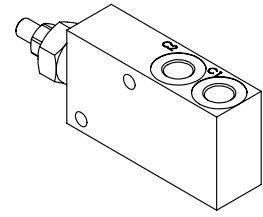
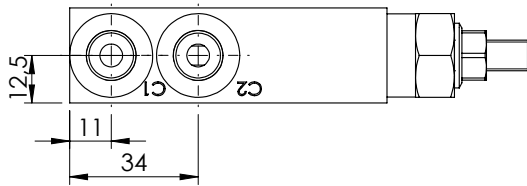
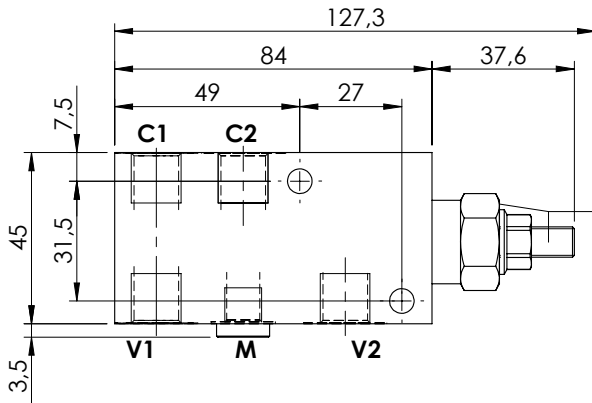
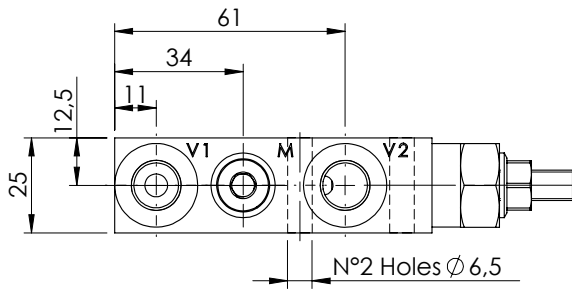
**ORDERING CODES**

Quick code	Description	Pilot ratio	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
CB000017	CBST-300-DCNH-06-127-N350	6:1	350	100-350	62
CB000013	CBST-300-DCNH-04-127-N350	4:1	350	100-350	75

OVERCENTRE VALVE

**MBSN-040-ALNP**

SINGLE ACTING

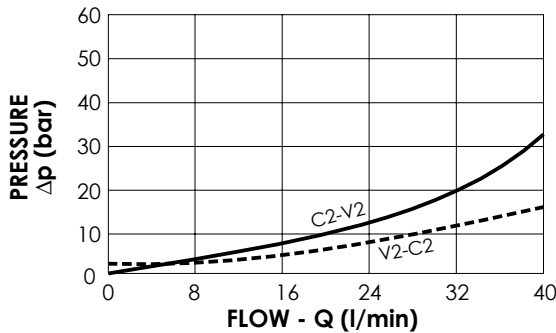
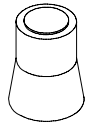


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Manifold:	Steel
Weight:	0,71 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

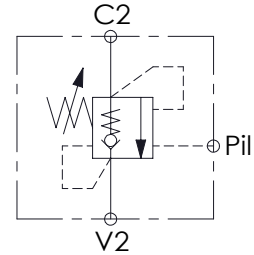
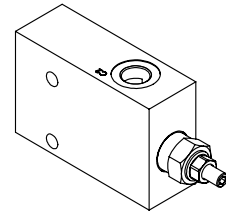
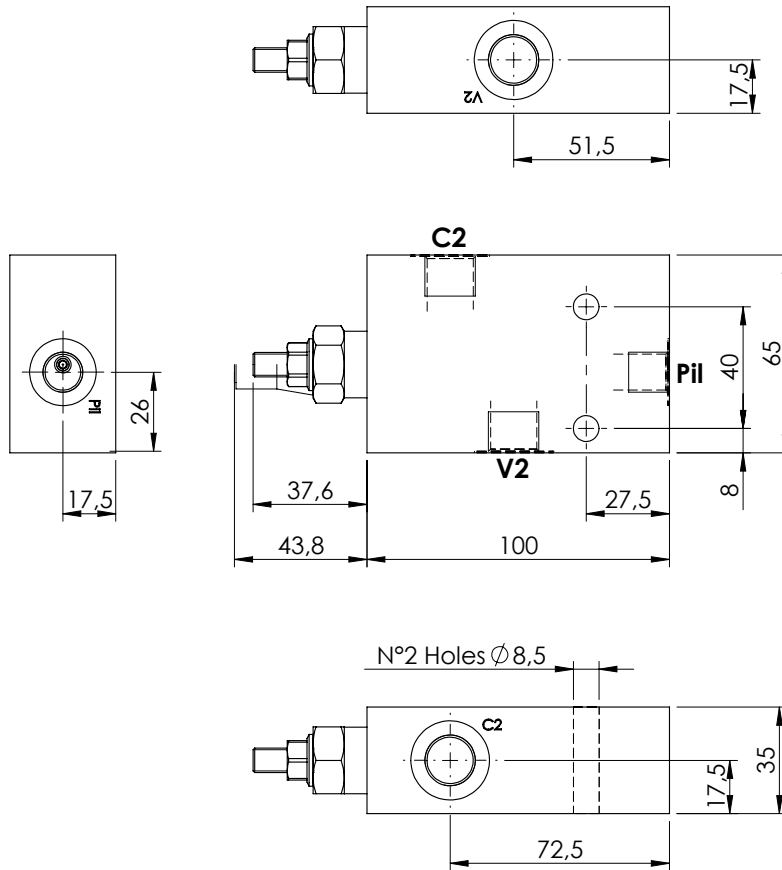
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000074	MBSN-040-ALNP-04-G14-N350	4,1:1	V1,V2: G1/4" M: G1/8" C1,C2: G1/4"	350	100-350	184
MB000604	MBSN-040-ALNP-04-G14-N200	4,1:1	V1,V2: G1/4" M: G1/8" C1,C2: G1/4"	200	60-210	83

OVERCENTRE VALVE

**MBSN-040-ZLNA**

SINGLE ACTING  
IN LINE PORTS

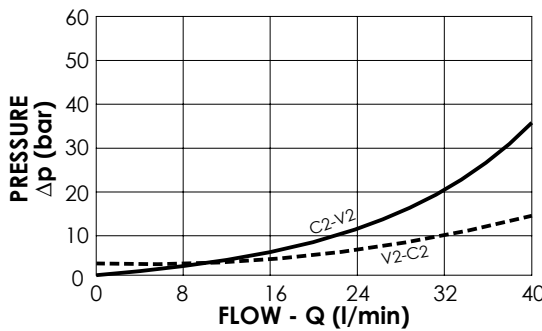
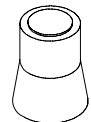


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	0,64 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

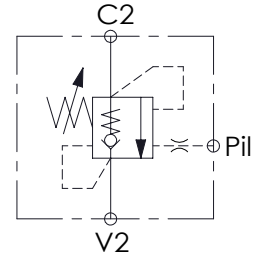
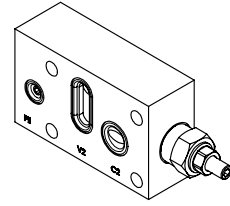
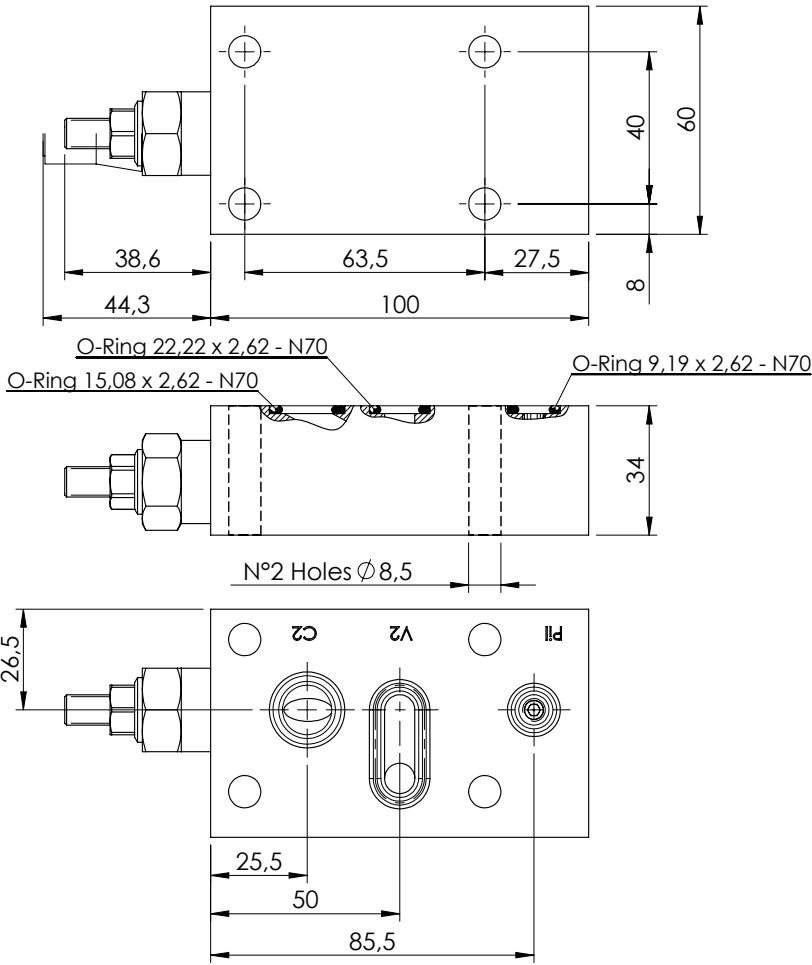
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000564	MBSN-040-ZLNA-04-G38-N350	4,1:1	C2,V2: G 3/8" Pil: G 1/4"	350	100-350	184
MB000565	MBSN-040-ZLNA-04-G38-N200	4,1:1	C2,V2: G 3/8" Pil: G 1/4"	200	60-210	83
MB000566	MBSN-040-ZLNA-08-G38-N350	8:1	C2,V2: G 3/8" Pil: G 1/4"	350	100-350	138
MB000567	MBSN-040-ZLNA-08-G38-N200	8:1	C2,V2: G 3/8" Pil: G 1/4"	200	60-210	83



OVERCENTRE VALVE

**MBSN-040-ZDNA**

SINGLE ACTING  
ALL FLANGED PORTS

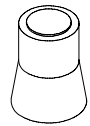


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Weight:	0.9 kg

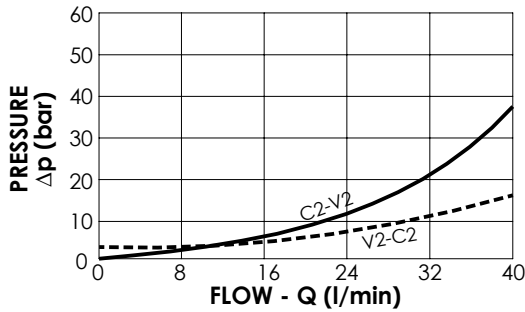
**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure



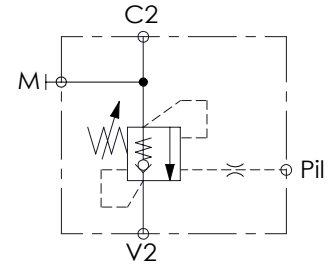
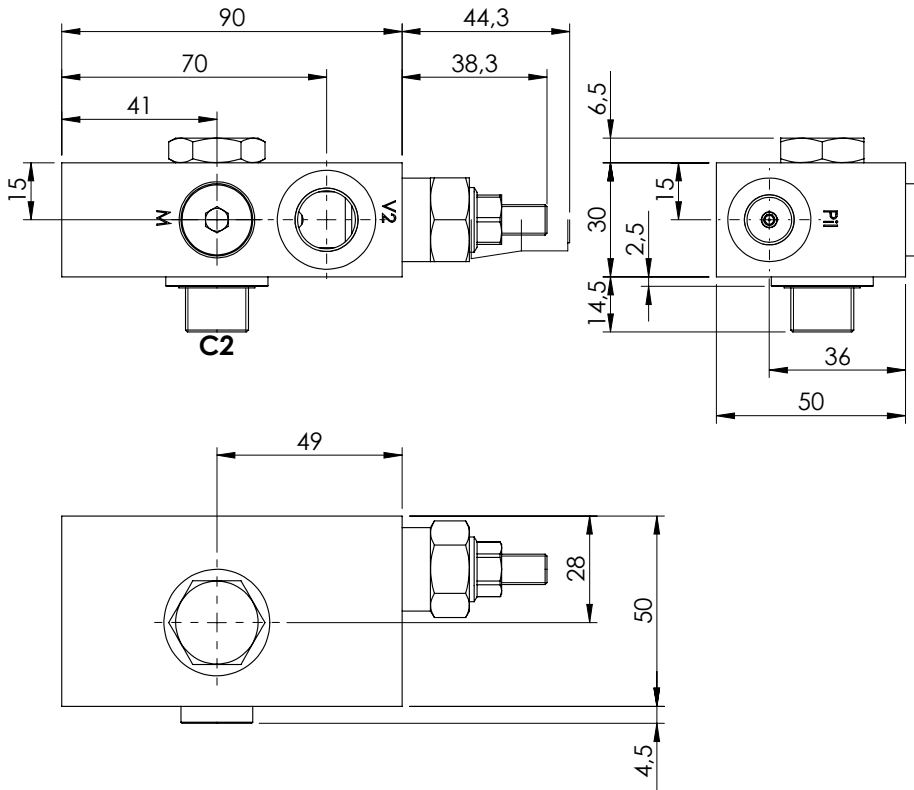
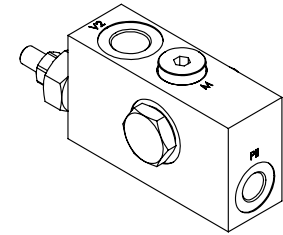
**ORDERING CODES**

Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000525	MBSN-040-ZDNA-04-PTF-N350	4,1:1	Aluminium	C2,V2: $\varnothing 8$ Pil: $\varnothing 5$	350	100-350	184
MB000526	MBSN-040-ZDNA-04-PTF-N200	4,1:1	Aluminium	C2,V2: $\varnothing 8$ Pil: $\varnothing 5$	200	60-210	83

OVERCENTRE VALVE

**MBSN-040-APNR**

SINGLE ACTING  
BANJO MOUNTING

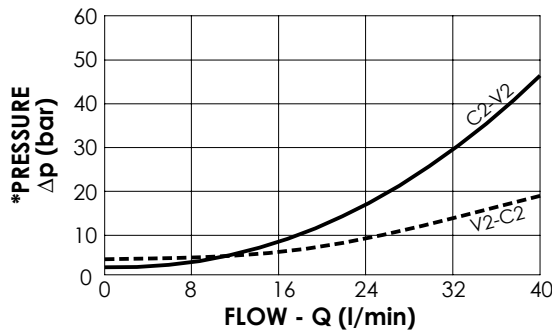
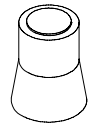


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Manifold:	Steel
Weight:	1,07 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

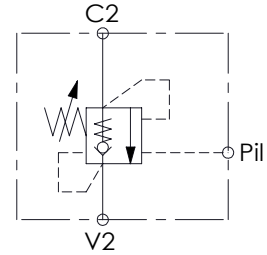
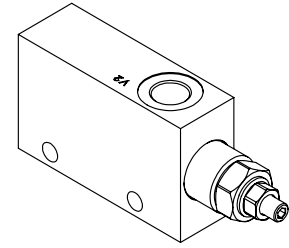
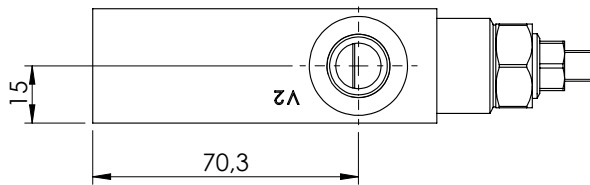
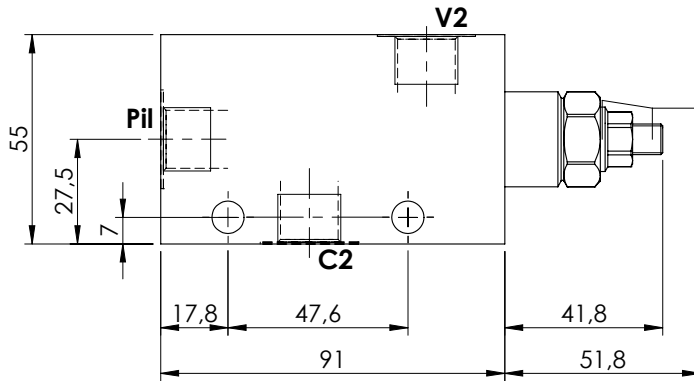
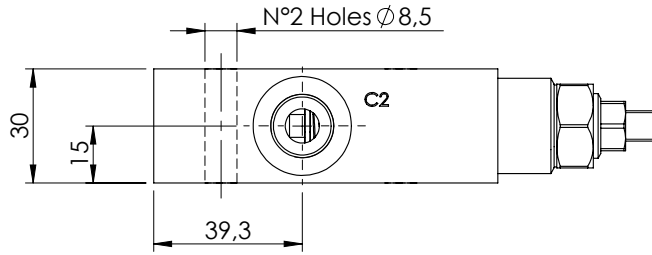
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000469	MBSN-040-APNR-04-G38-N350	4,1:1	C2,V2: G3/8" M,Pil: G1/4"	350	100-350	184
MB000578	MBSN-040-APNR-04-G38-N200	4,1:1	C2,V2: G3/8" M,Pil: G1/4"	200	60-210	83
MB000840	MBSN-040-APNR-08-G38-N350	8:1	C2,V2: G3/8" M,Pil: G1/4"	350	100-350	138

OVERCENTRE VALVE

**MBSN-060-ALNR**

SINGLE ACTING

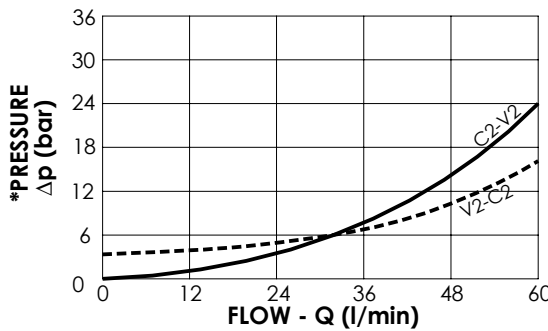
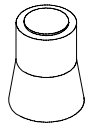


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,11 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

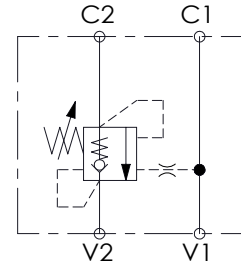
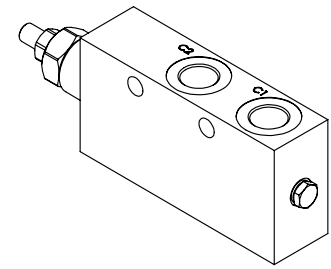
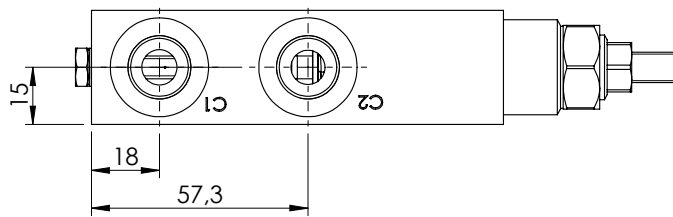
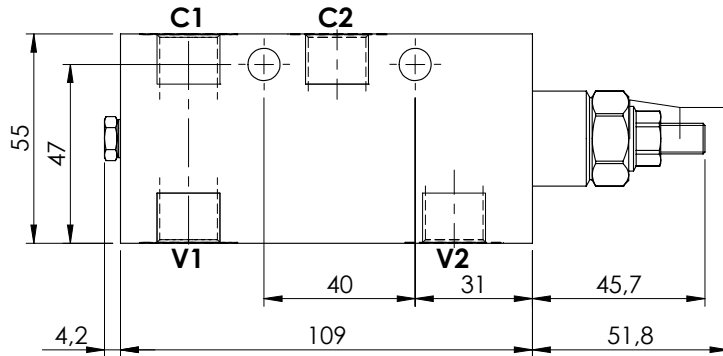
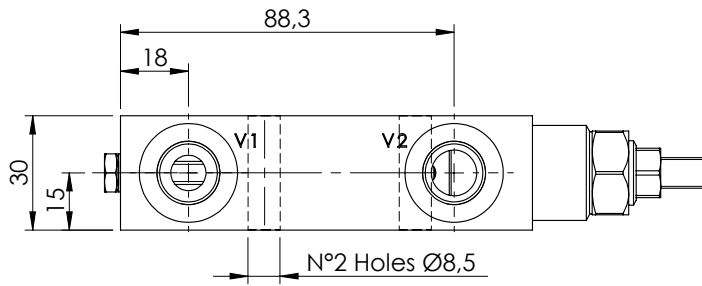
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000002	MBSN-060-ALNR-04-G38-N350	4,2:1	V2, C2, Pil: G3/8"	350	100-350	138
MB000054	MBSN-060-ALNR-04-G38-N200	4,2:1	V2, C2, Pil: G3/8"	200	60-210	62

OVERCENTRE VALVE

**MBSN-060-ALNE**

SINGLE ACTING

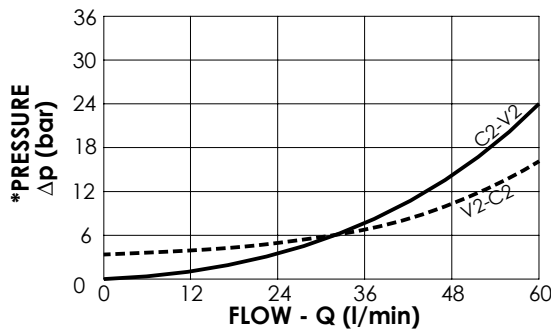
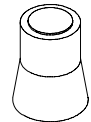


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,32 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

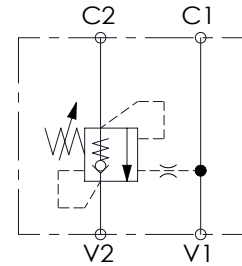
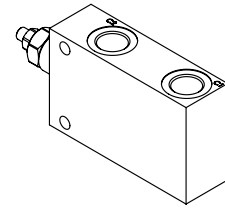
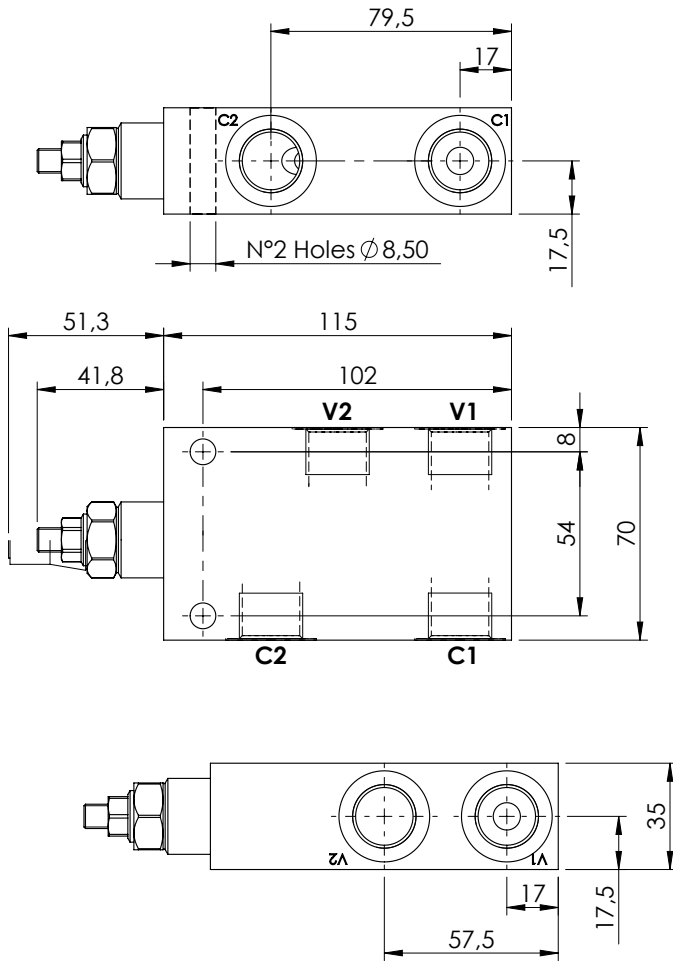
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000051	MBSN-060-ALNE-04-G38-N350	4,2:1	V1, V2: G3/8" C1, C2: G3/8"	350	100-350	138
MB000179	MBSN-060-ALNE-04-G38-N200	4,2:1	V1, V2: G3/8" C1, C2: G3/8"	200	60-250	62
MB000044	MBSN-060-ALNE-11-G38-N350	11:1	V1, V2: G3/8" C1, C2: G3/8"	350	150-350	160



OVERCENTRE VALVE

**MBSN-060-ZLSE**

SINGLE ACTING

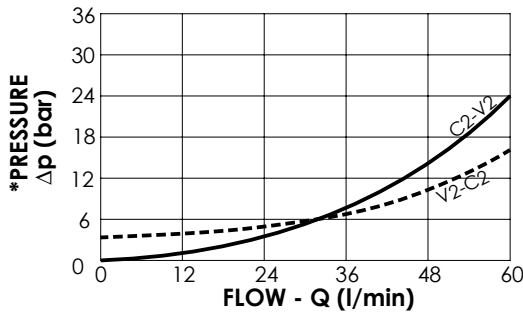
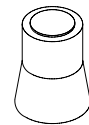


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Weight:	Aluminium 0.8 kg; Steel 2.0 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

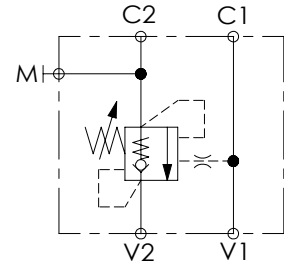
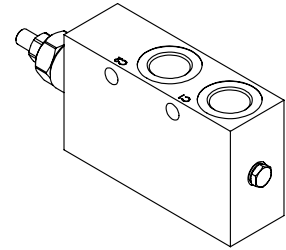
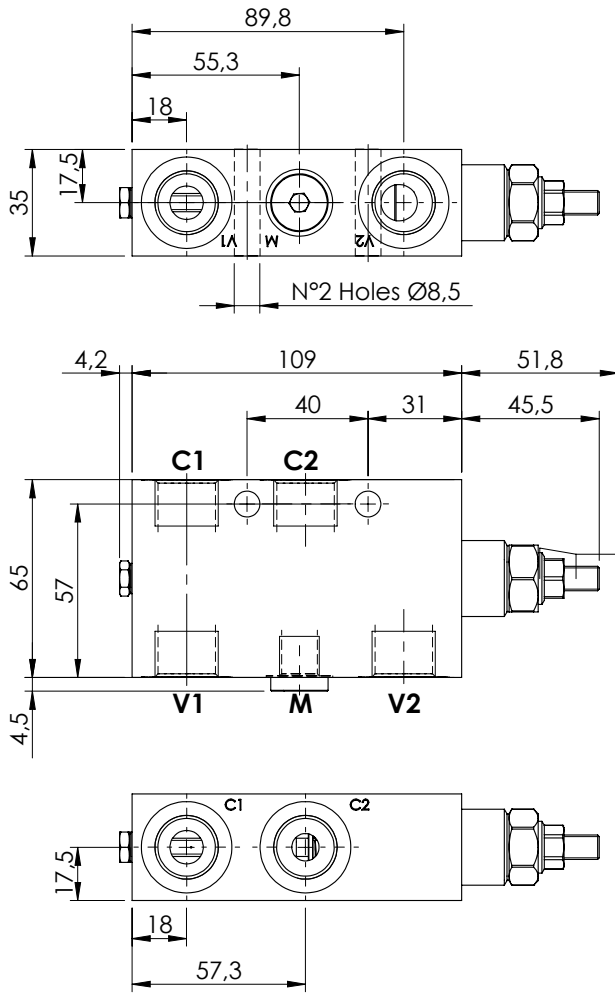
**ORDERING CODES**

Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000508	MBSN-060-ZLSE-04-G12-N350	4,2:1	Aluminium	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	138
MB000509	MBSN-060-ZLSE-04-G12-N200	4,2:1	Aluminium	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	62
MB000510	MBSN-060-ALDE-04-G12-N350	4,2:1	Steel	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	138
MB000511	MBSN-060-ALDE-04-G12-N200	4,2:1	Steel	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	62
MB000512	MBSN-060-ZLSE-07-G12-N350	7:1	Aluminium	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	106
MB000513	MBSN-060-ZLSE-07-G12-N200	7:1	Aluminium	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	46
MB000514	MBSN-060-ALDE-07-G12-N350	7:1	Steel	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	106
MB000515	MBSN-060-ALDE-07-G12-N200	7:1	Steel	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	46

OVERCENTRE VALVE

**MBSN-060-ALNE**

SINGLE ACTING

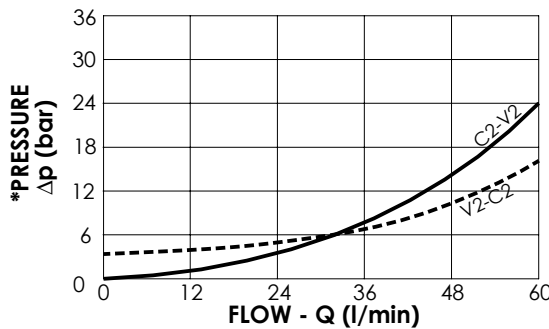
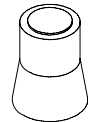


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,77 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

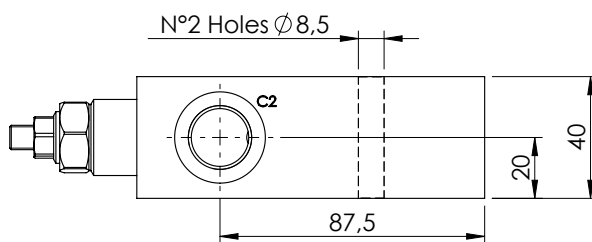
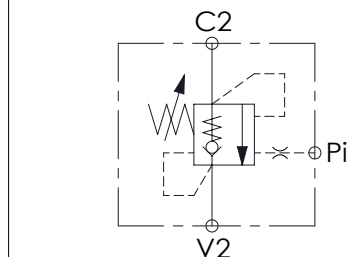
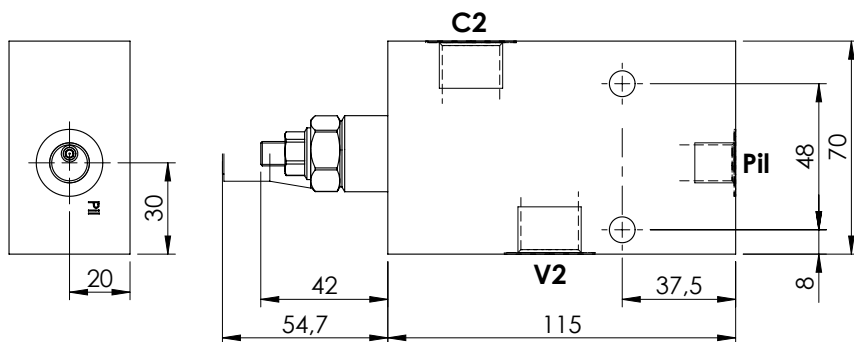
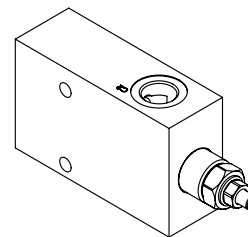
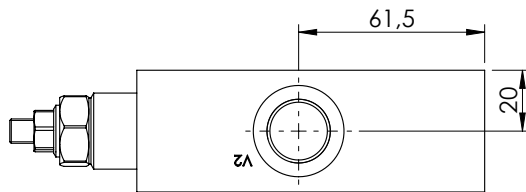
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000063	MBSN-060-ALNE-04-G12-N350	4,2:1	V1, V2: G1/2" M:G1/4" C1, C2: G1/2"	350	100-350	138
MB000200	MBSN-060-ALNE-04-G12-N200	4,2:1	V1, V2: G1/2" M:G1/4" C1, C2: G1/2"	200	60-210	62

OVERCENTRE VALVE

**MBSN-060-ZLNA**

SINGLE ACTING  
IN LINE PORTS

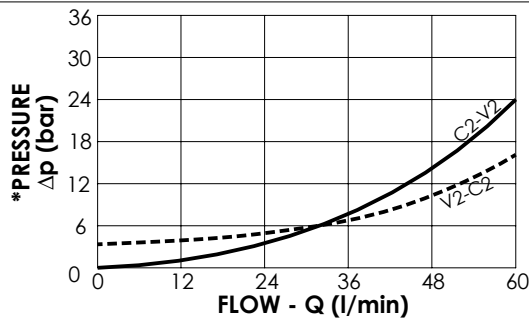
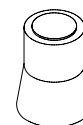


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Weight:	0,9 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

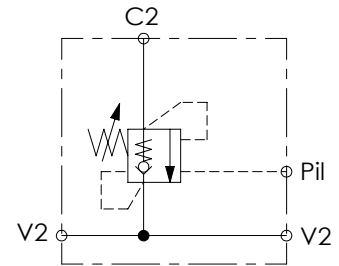
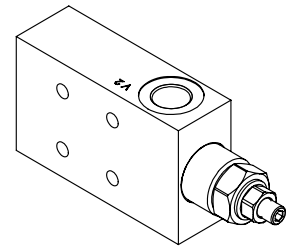
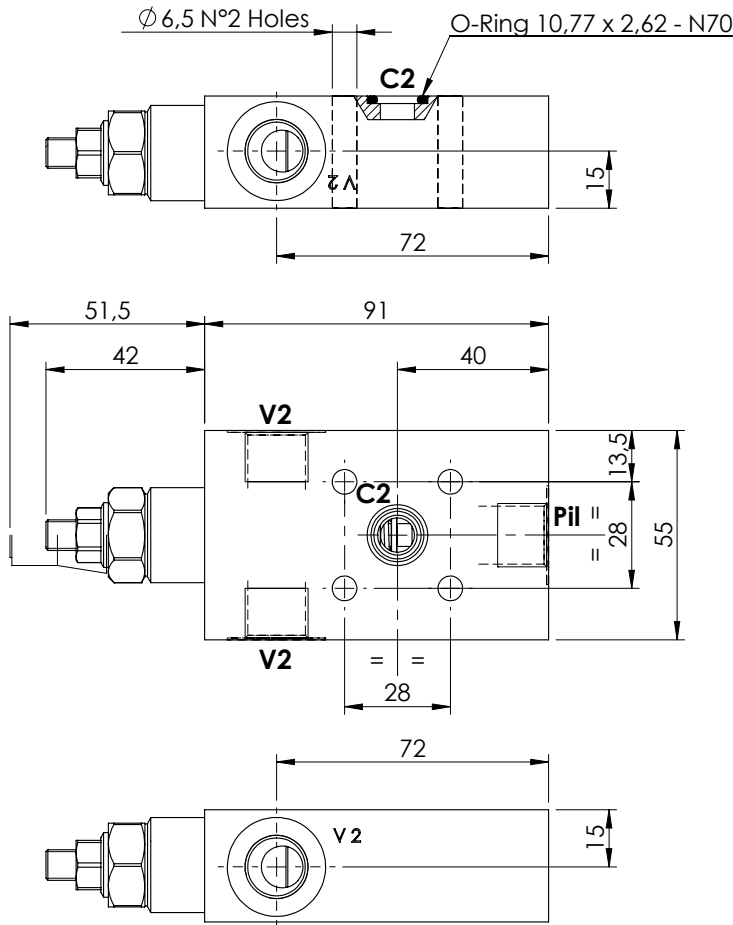
**ORDERING CODES**

Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000579	MBSN-060-ZLNA-04-G12-N350	4,2:1	Aluminium	C2,V2: G 1/2" Pil: G 1/4"	350	110-350	138
MB000580	MBSN-060-ZLNA-04-G12-N200	4,2:1	Aluminium	C2,V2: G 1/2" Pil: G 1/4"	200	60-210	62
MB000581	MBSN-060-ZLNA-07-G12-N350	7:1	Aluminium	C2,V2: G 1/2" Pil: G 1/4"	350	85-350	106
MB000582	MBSN-060-ZLNA-07-G12-N250	7:1	Aluminium	C2,V2: G 1/2" Pil: G 1/4"	250	40-250	46

OVERCENTRE VALVE

**MBSN-060-AANR**

SINGLE ACTING  
ONE FLANGED PORT

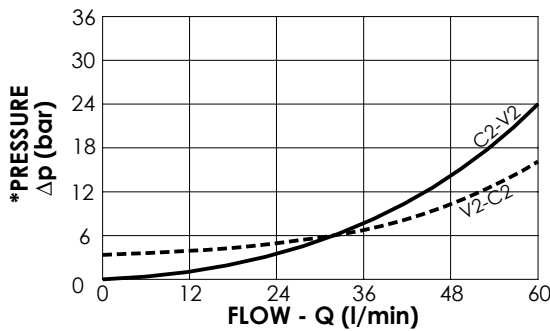
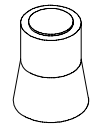


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,09 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

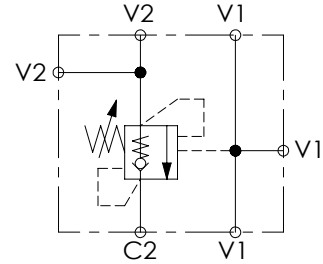
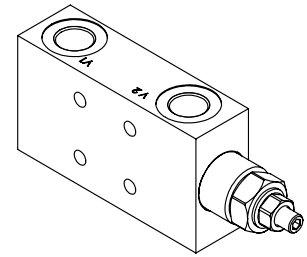
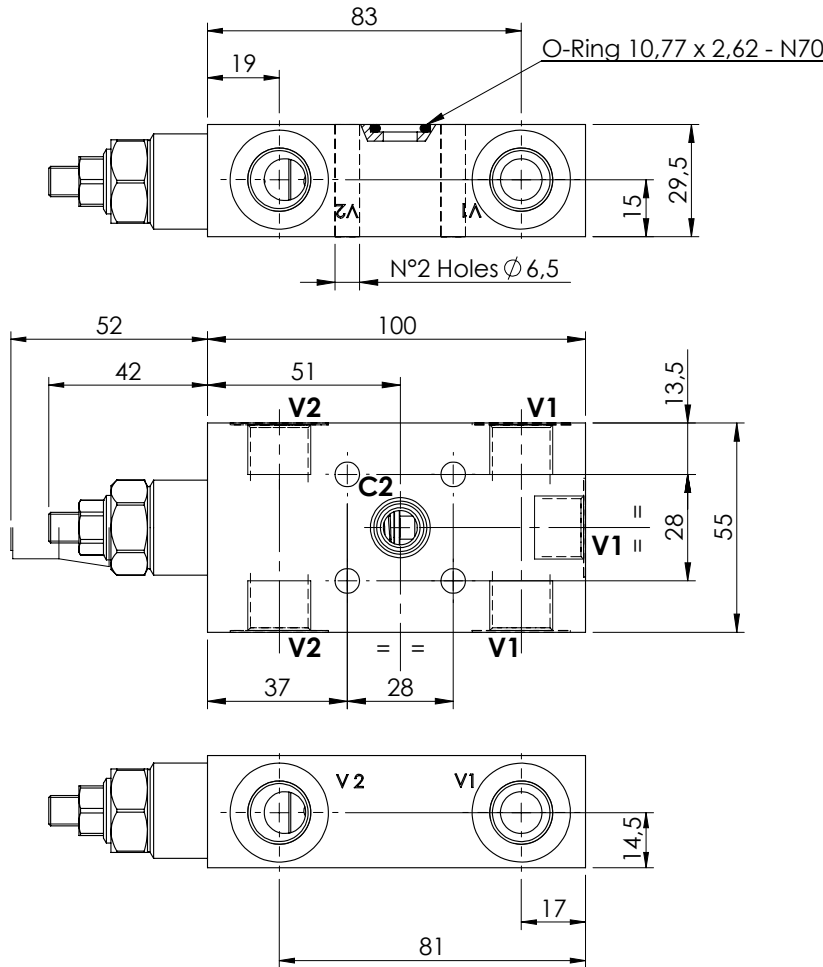
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000017	MBSN-060-AANR-04-G38-N350	4,2:1	V2, Pil: G3/8" C2 : Ø9	350	100-350	138
MB000199	MBSN-060-AANR-04-G38-N200	4,2:1	V2, Pil: G3/8" C2 : Ø9	200	60-210	62

OVERCENTRE VALVE

**MBSN-060-AATV**

SINGLE ACTING  
ONE FLANGED PORT

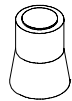


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,14 kg

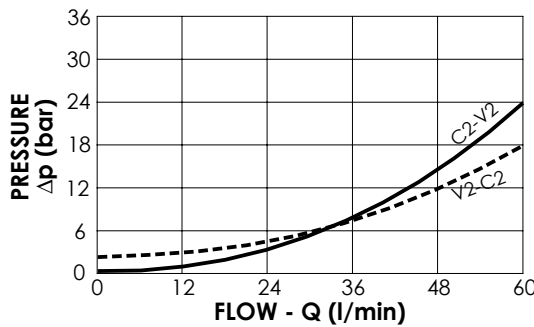
**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure



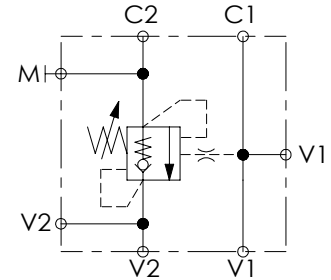
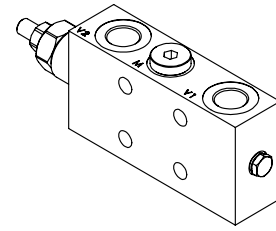
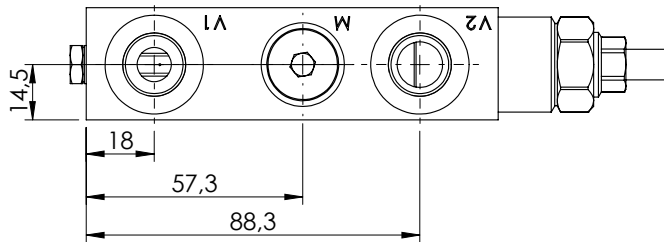
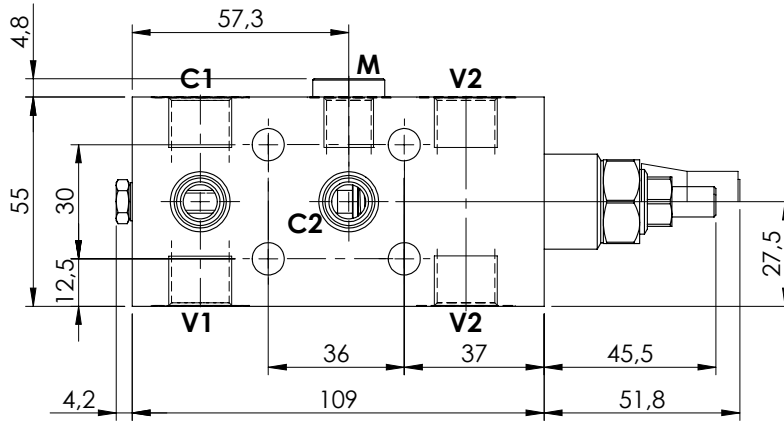
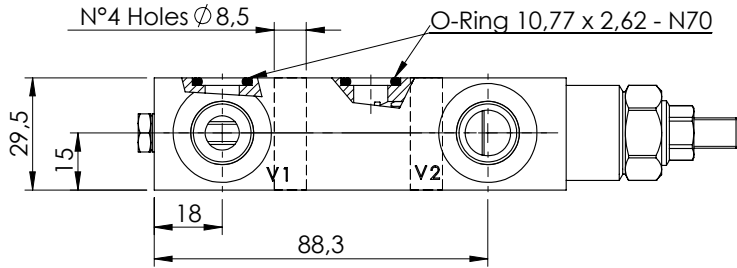
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000236	MBSN-060-AATV-04-G38-N350	4,2:1	V1,V2: G 3/8" C2: Ø 9	350	100-350	138
MB000234	MBSN-060-AATV-04-G38-N200	4,2:1	V1,V2: G 3/8" C2: Ø 9	200	60-210	62

OVERCENTRE VALVE

**MBSN-060-ABNP**

**SINGLE ACTING  
TWO FLANGED PORTS**

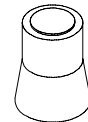


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,27 kg

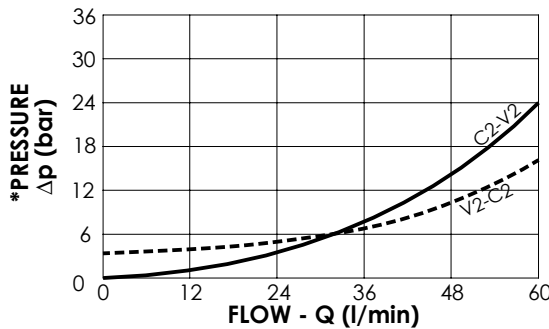
**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure



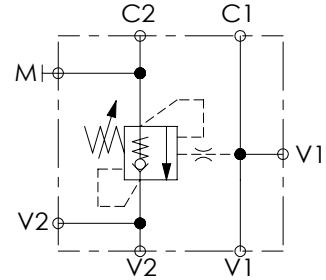
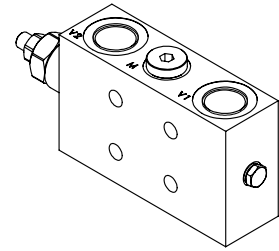
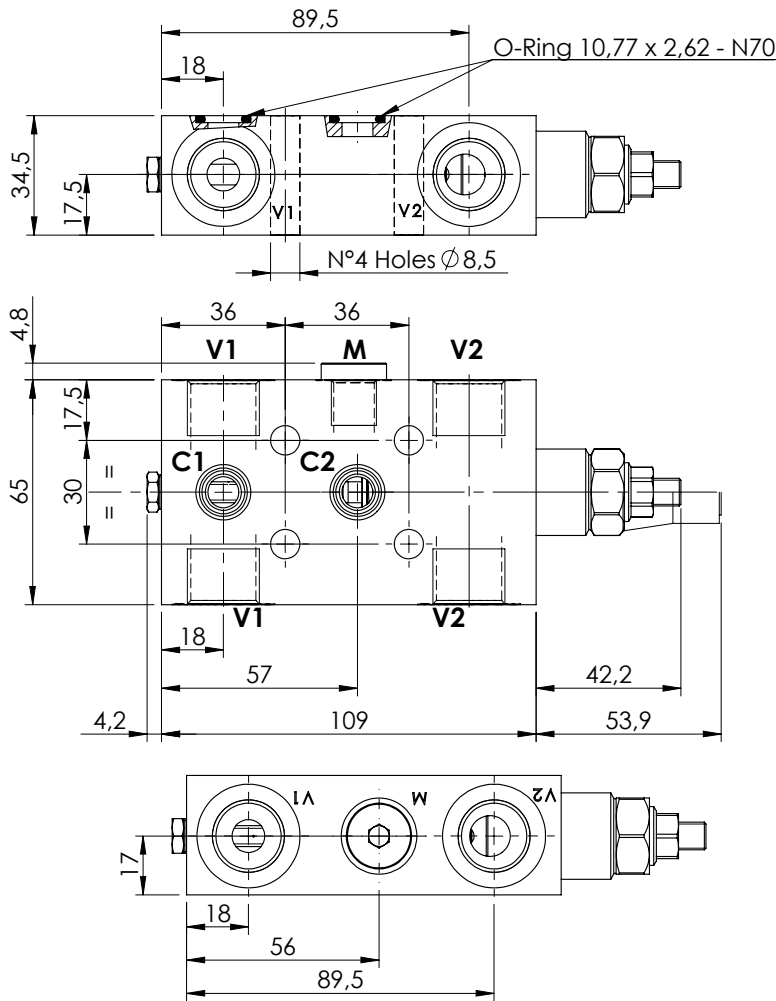
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000139	MBSN-060-ABNP-04-G38-N350	4,2:1	V1, V2: G3/8" M:G1/4" C1, C2: Ø 9	350	100-350	138
MB000914	MBSN-060-ABNP-04-G38-N200	4,2:1	V1, V2: G3/8" M:G1/4" C1, C2: Ø 9	200	60-210	62

OVERCENTRE VALVE

**MBSN-060-ABNP**

SINGLE ACTING  
TWO FLANGED PORTS

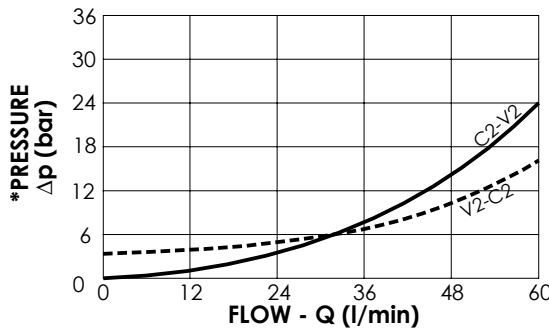
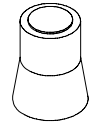


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,69 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

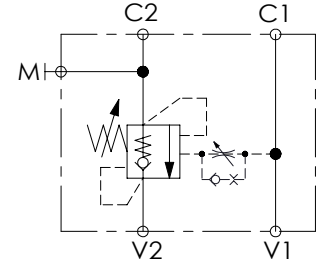
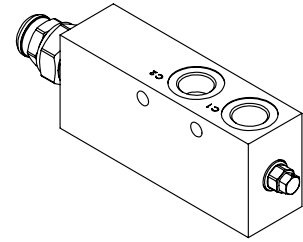
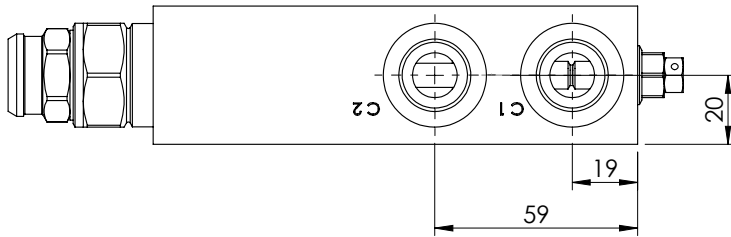
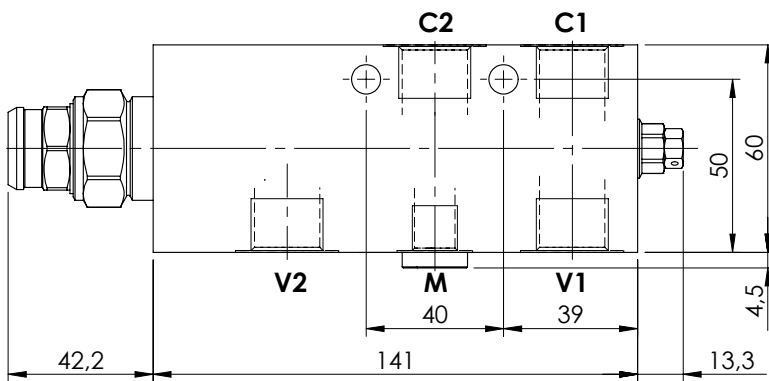
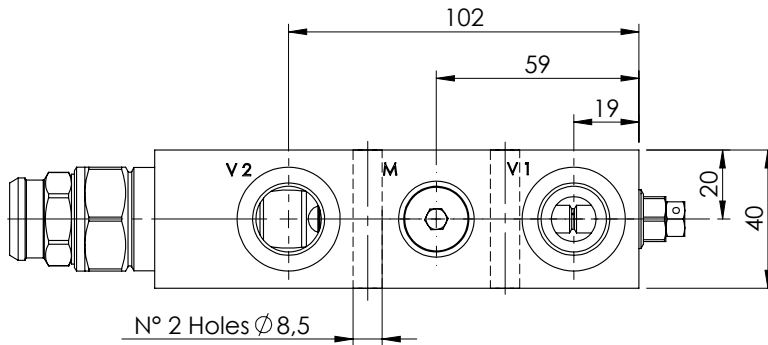
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000140	MBSN-060-ABNP-04-G12-N350	4,2:1	V1, V2 :G1/2" M:G1/4" C1, C2 : Ø9	350	100-350	138

OVERCENTRE VALVE

**MBSN-150-ALNV**

SINGLE ACTING

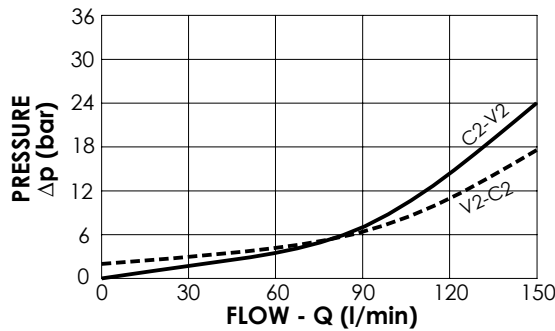


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	2,5 kg

**SEALING CAP**

Ordering code:  
ST000012



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

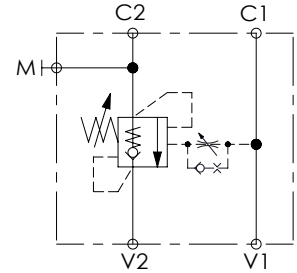
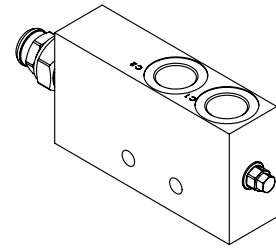
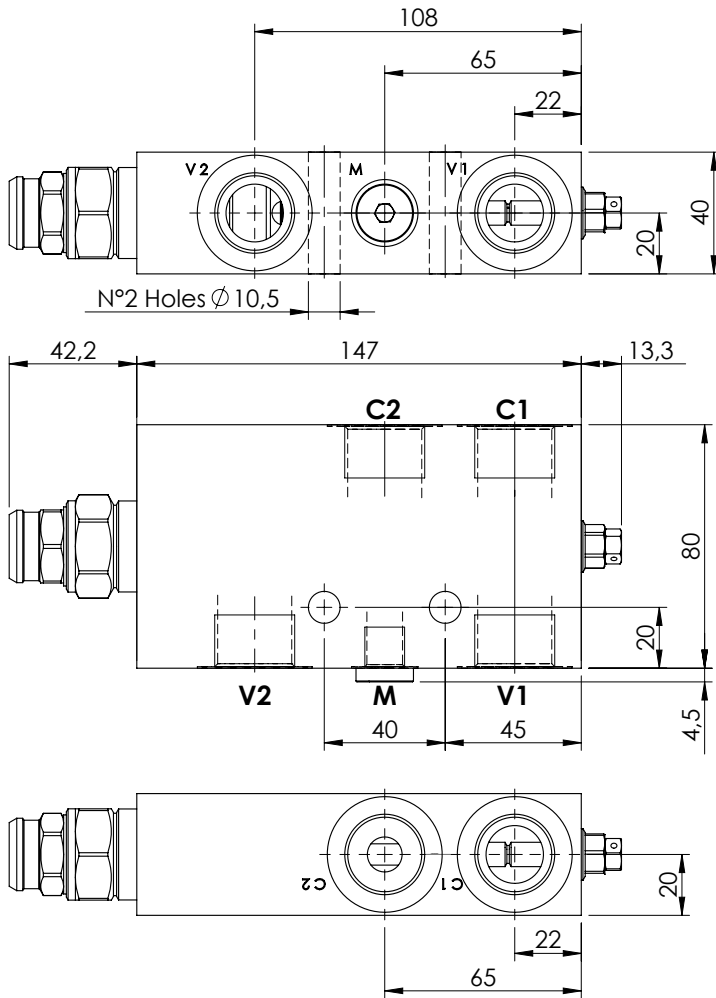
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000047	MBSN-150-ALNV-04-G12-N350	4:1	V1, V2: G 1/2" M: G1/4" C1, C2: G1/2"	350	100-350	104



OVERCENTRE VALVE

**MBSN-150-ALNV**

SINGLE ACTING

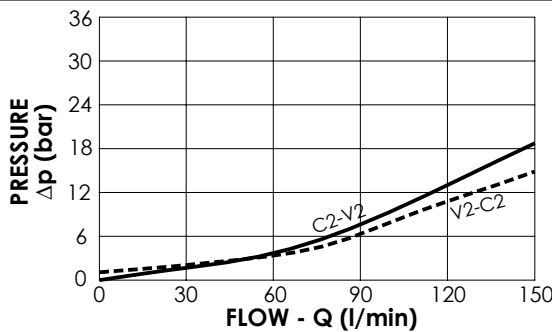
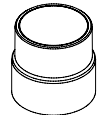


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	3,26 kg

**SEALING CAP**

Ordering code:  
ST000012



**NOTES**

Setting: at least 1.3 times the load induced pressure

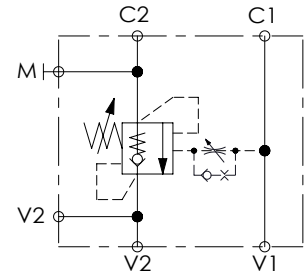
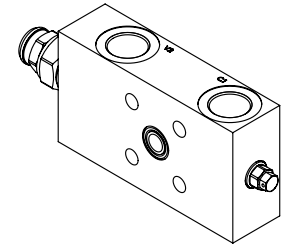
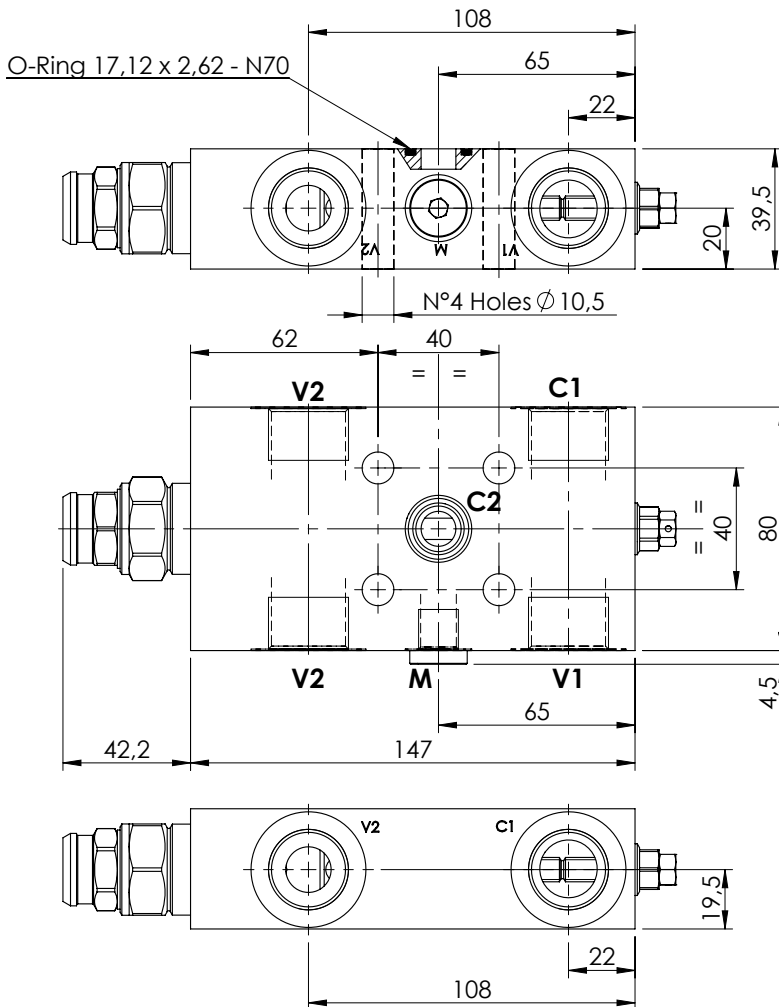
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000215	MBSN-150-ALNV-04-G34-N350	4:1	V1, V2: G3/4" M:G1/4" C1, C2: G3/4"	350	100-350	104

OVERCENTRE VALVE

**MBSN-150-AANV**

SINGLE ACTING  
ONE FLANGED PORT



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	3,14 kg

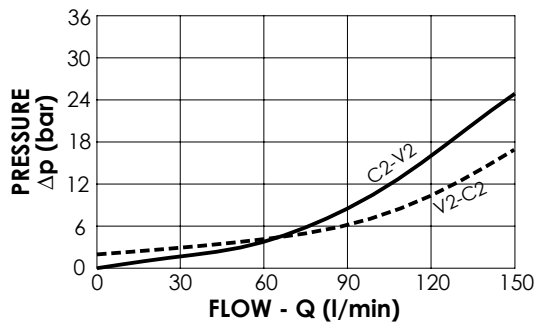
**SEALING CAP**

Ordering code:  
ST000012



**NOTES**

Setting: at least 1.3 times the load induced pressure



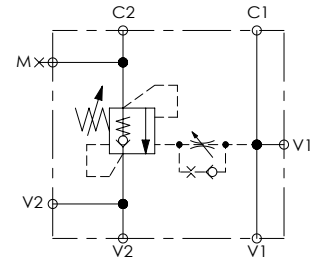
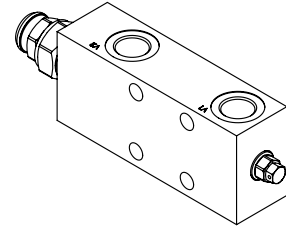
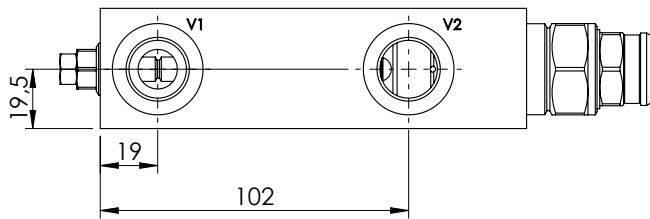
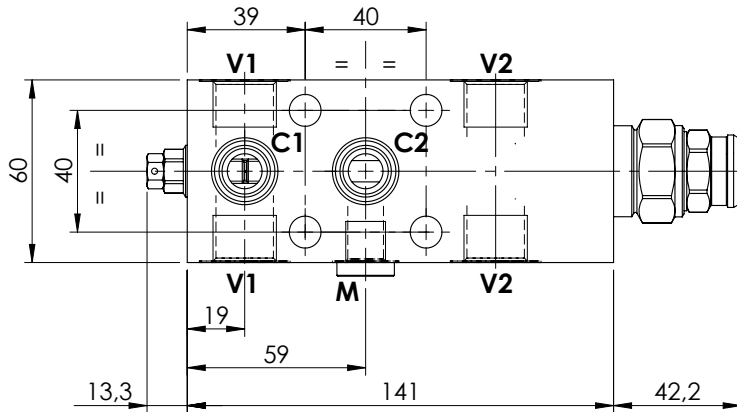
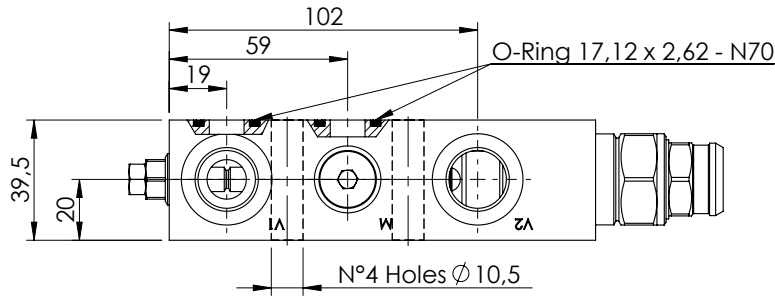
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000426	MBSN-150-AANV-04-G34-N350	4:1	V1, V2, C1: G3/4" M: G1/4" C2: $\varnothing$ 11.5	350	100-350	104

OVERCENTRE VALVE

**MBSN-150-ABNV**

SINGLE ACTING  
TWO FLANGED PORTS

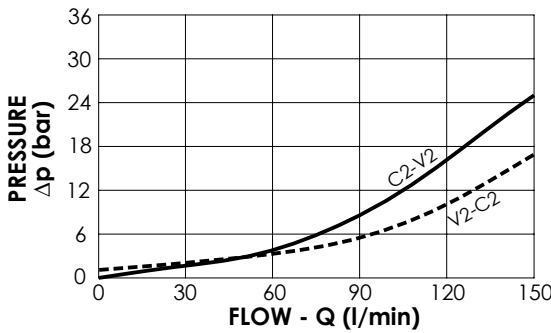
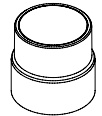


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	2,37 kg

**SEALING CAP**

Ordering code:  
ST000012



**NOTES**

Setting: at least 1.3 times the load induced pressure

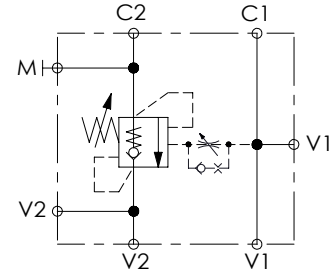
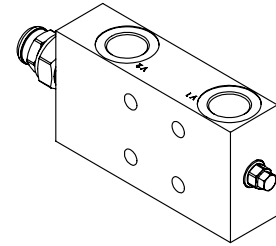
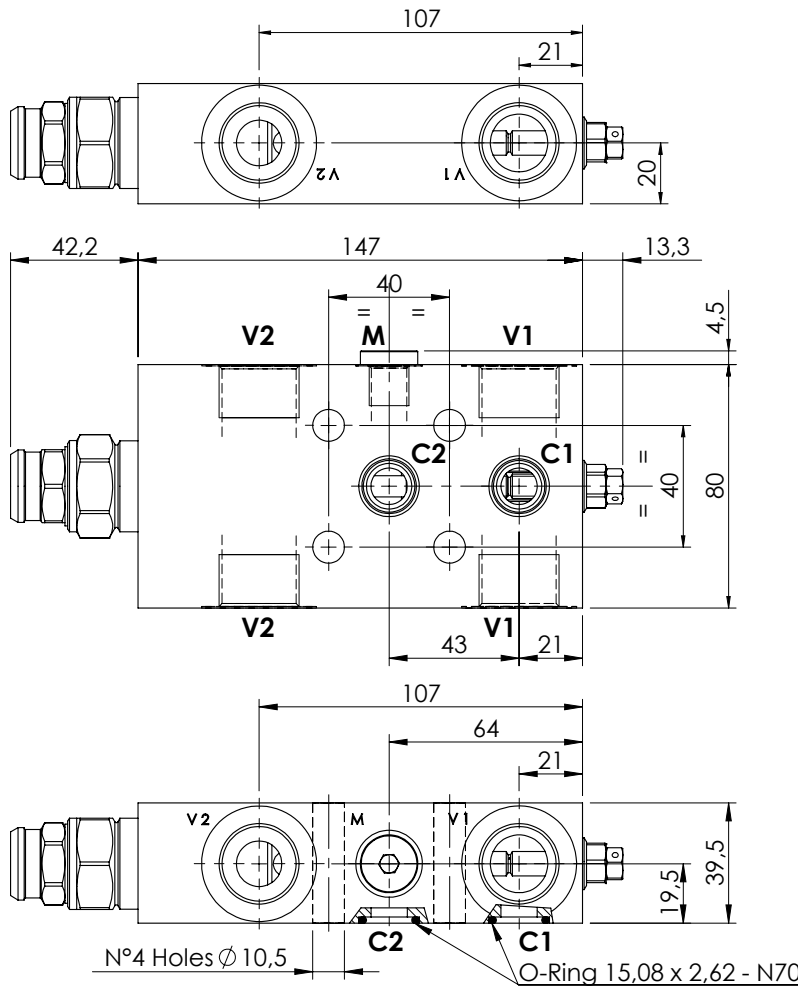
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000156	MBSN-150-ABNV-04-G12-N350	4:1	V1, V2: G1/2" M:G1/4" C1, C2: Ø11.5	350	100-350	104
MB000883	MBSN-150-ABNV-08-G12-N350	8:1	V1, V2: G1/2" M:G1/4" C1, C2: Ø11.5	350	100-350	84

OVERCENTRE VALVE

**MBSN-150-ABNV**

SINGLE ACTING  
TWO FLANGED PORTS

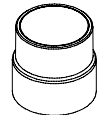


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	3,13 kg

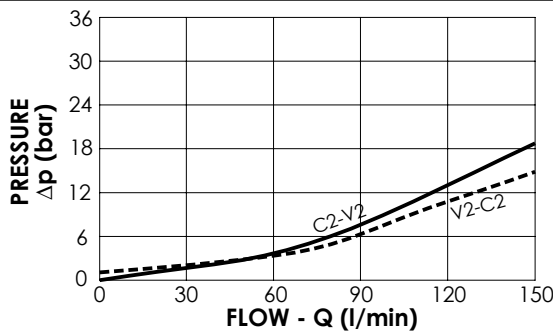
**SEALING CAP**

Ordering code:  
ST000012



**NOTES**

Setting: at least 1.3 times the load induced pressure



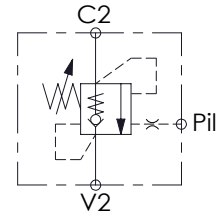
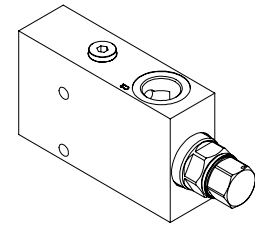
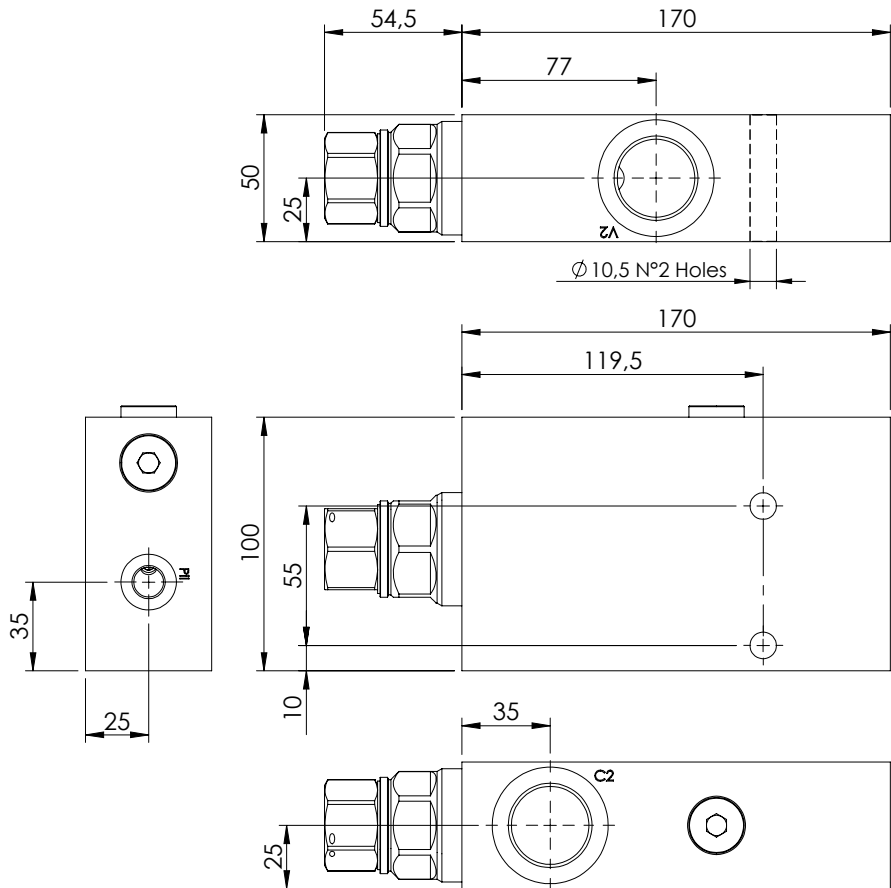
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000216	MBSN-150-ABNV-04-G34-N350	4:1	V1, V2: G3/4" M: G1/4" C1, C2: Ø12	350	100-350	104

OVERCENTRE VALVE

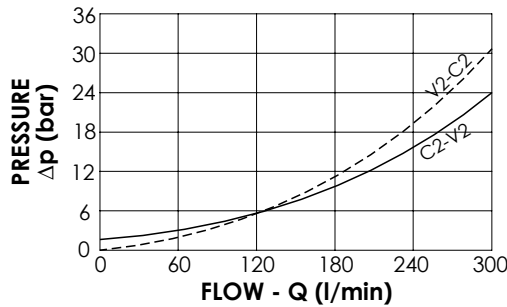
**MBSN-300-ZLNP**

SINGLE ACTING  
IN LINE PORTS



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	300 l/min
Weight: Aluminium	2,61 kg
Weight: Steel	6,14 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

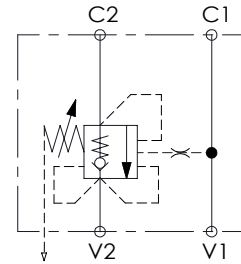
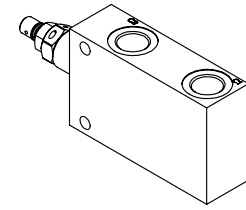
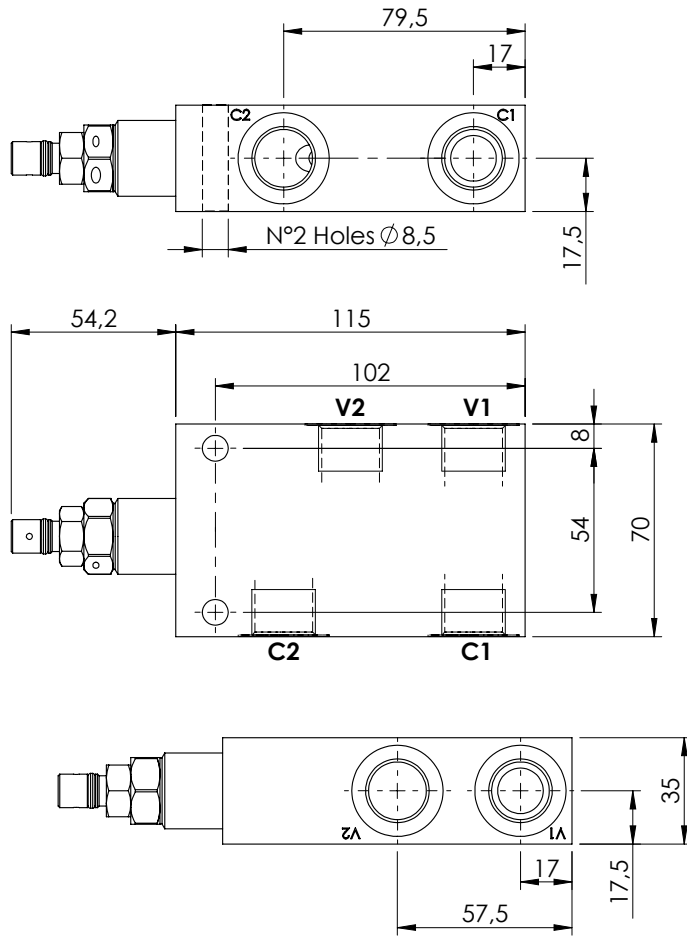
**ORDERING CODES**

Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000720	MBSN-300-ZLNP-04-G10-N350	4:1	Aluminium	C2,V2: G 1" Pil: G 1/4"	350	100-350	75
MB000834	MBSN-300-ALNP-04-G10-N350	4:1	Steel	C2,V2: G 1" Pil: G 1/4"	350	100-350	75
MB000836	MBSN-300-ALNP-04-G10-N200	4:1	Steel	C2,V2: G 1" Pil: G 1/4"	200	60-210	46

OVERCENTRE VALVE

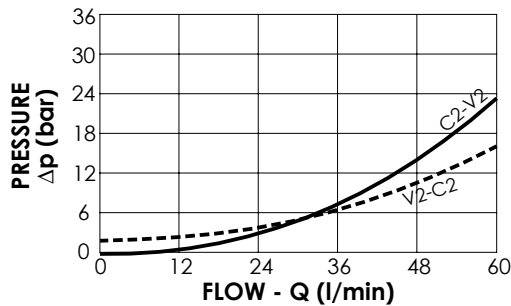
**MBSP-060-ZLSE**

**SINGLE ACTING  
RELIEF COMPENSATED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Aluminium
Weight:	0,8 Kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

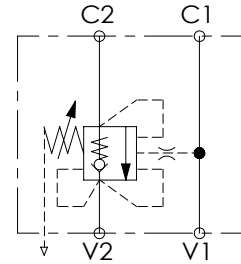
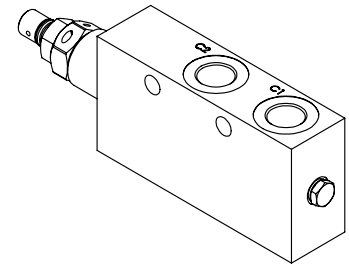
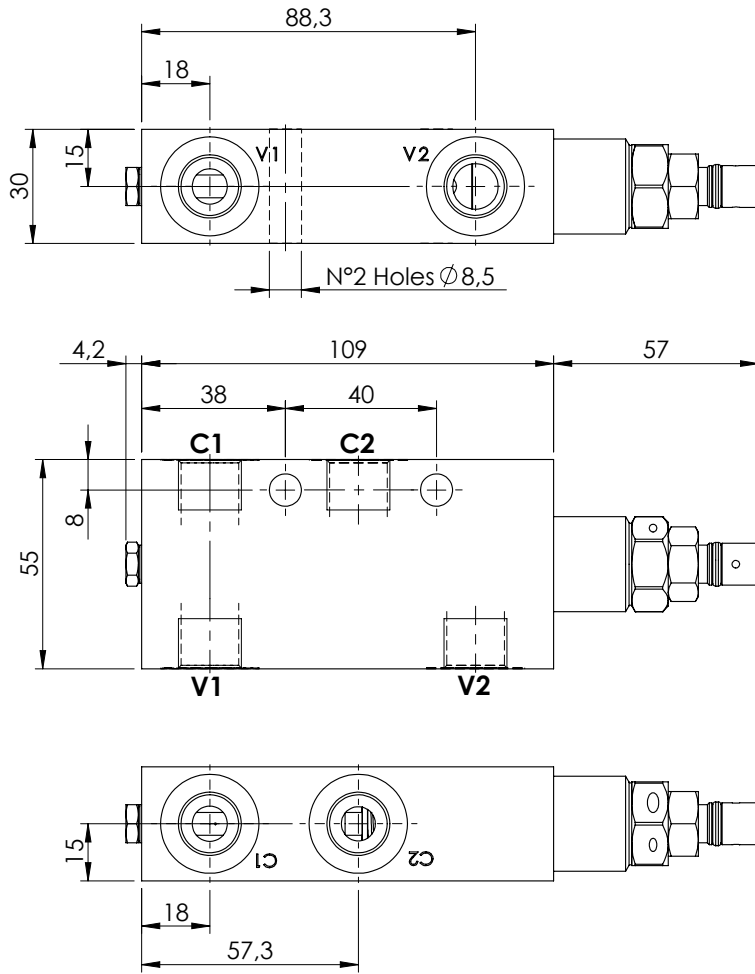
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000722	MBSP-060-ZLSE-04-G12-N350	4,2:1	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	138

OVERCENTRE VALVE

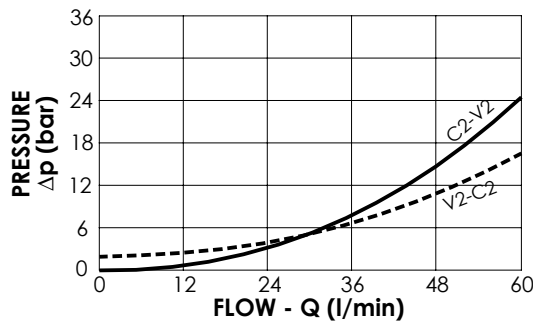
**MBSP-060-ALNP**

SINGLE ACTING  
RELIEF COMPENSATED



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,35 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

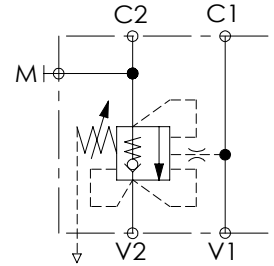
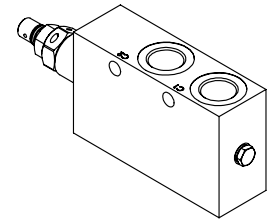
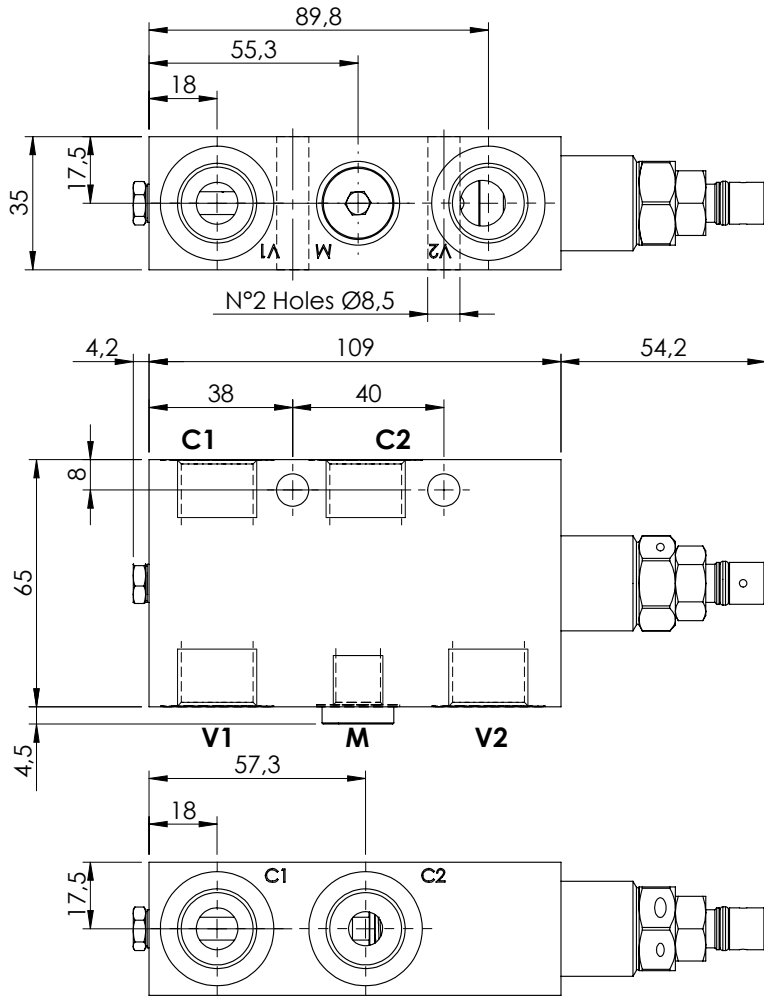
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000209	MBSP-060-ALNP-04-G38-N350	4,2:1	V1, V2: G3/8" C1, C2: G3/8"	350	100-350	138
MB000896	MBSP-060-ALNP-04-G38-N200	4,2:1	V1, V2: G3/8" C1, C2: G3/8"	200	60-210	62

OVERCENTRE VALVE

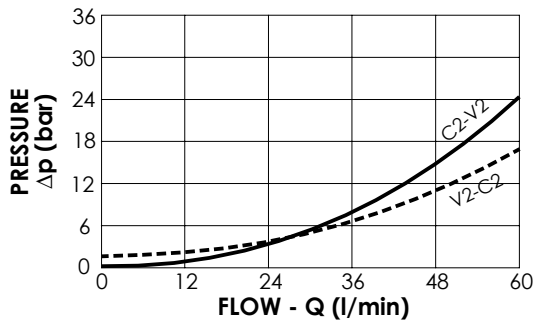
**MBSP-060-ALNE**

SINGLE ACTING  
RELIEF COMPENSATED



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,8 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

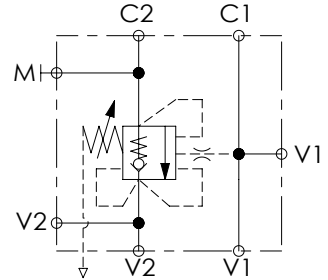
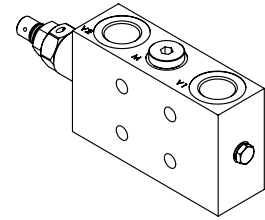
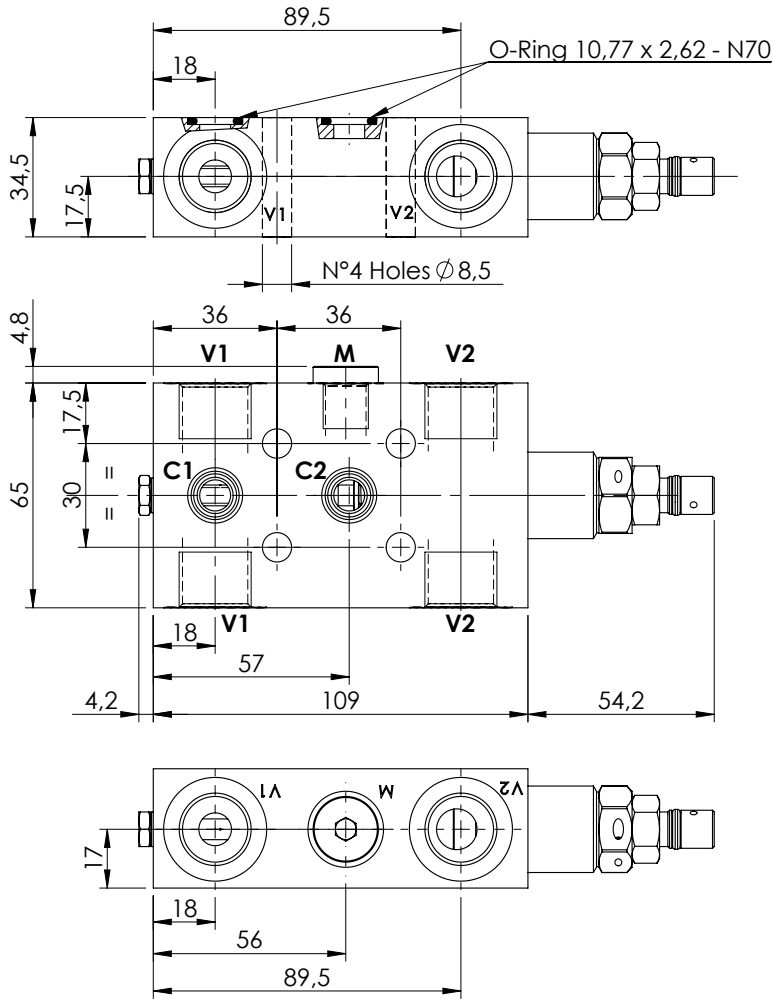
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000197	MBSP-060-ALNE-04-G12-N350	4,2:1	V1,V2,C1,C2: G1/2" M: G1/4"	350	100-350	139



OVERCENTRE VALVE

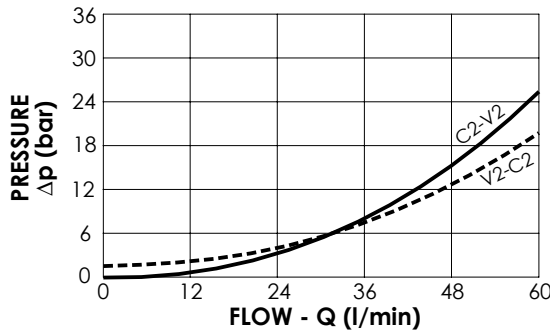
**MBSP-060-ABNP**

**SINGLE ACTING  
TWO FLANGED PORTS  
RELIEF COMPENSATED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,72 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

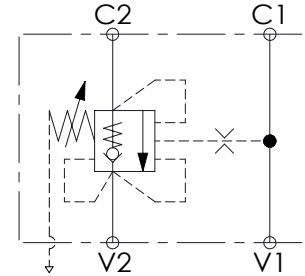
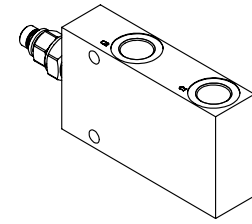
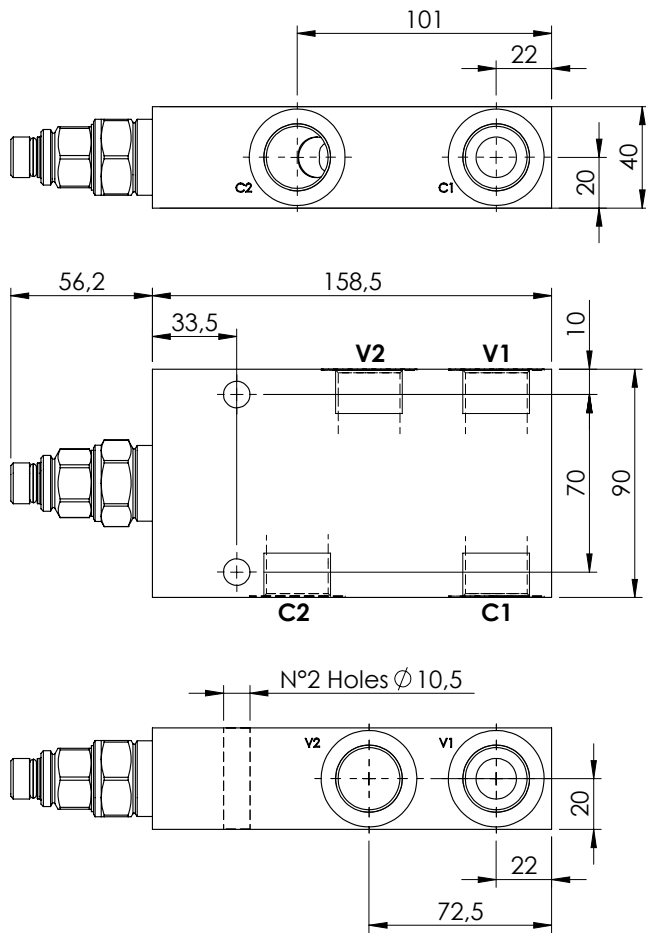
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000335	MBSP-060-ABNP-04-G12-N350	4,2:1	V1, V2 :G1/2" M:G1/4" C1, C2 : Ø9	350	100-350	138

OVERCENTRE VALVE

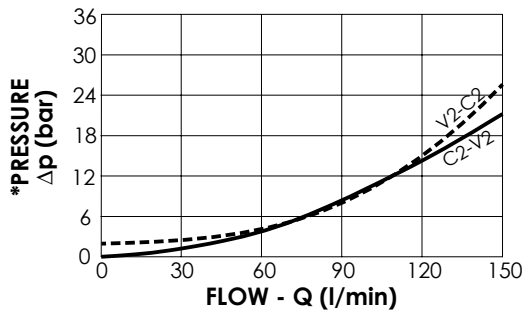
**MBSP-150-ZLSE**

**SINGLE ACTING  
RELIEF COMPENSATED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Weight:	Aluminium 1,6 kg; Steel 3.9 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

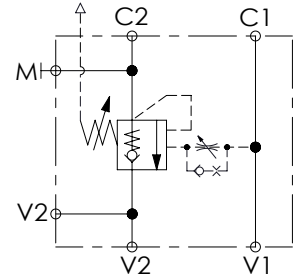
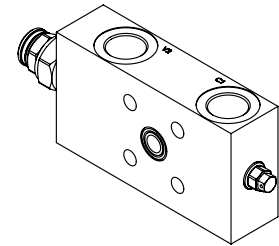
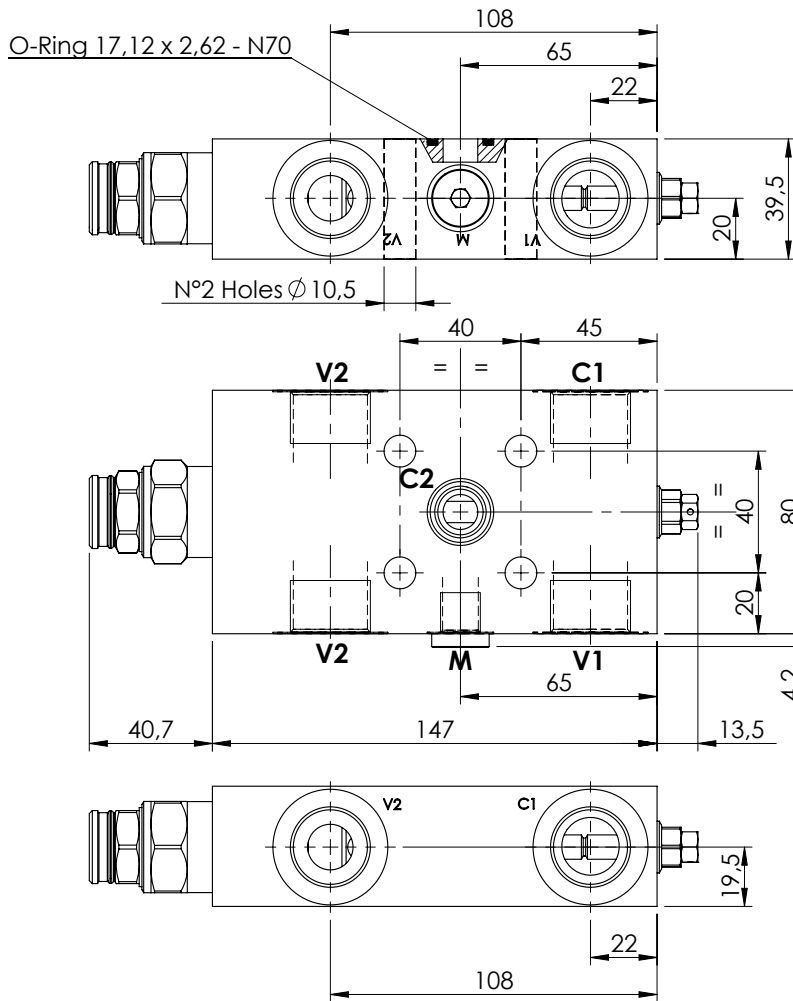
**ORDERING CODES**

Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000500	MBSP-150-ZLSE-08-G34-N350	8:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	350	100-350	83
MB000501	MBSP-150-ZLSE-08-G34-N200	8:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	47
MB000502	MBSP-150-ALDE-08-G34-N350	8:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	350	100-350	83
MB000503	MBSP-150-ALDE-08-G34-N200	8:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	47
MB000504	MBSP-150-ZLSE-04-G34-N350	4:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	350	100-350	104
MB000505	MBSP-150-ZLSE-04-G34-N200	4:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	56
MB000506	MBSP-150-ALDE-04-G34-N350	4:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	350	100-350	104
MB000507	MBSP-150-ALDE-04-G34-N200	4:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	56

OVERCENTRE VALVE

**MBST-150-AANV**

**SINGLE ACTING  
ONE FLANGED PORT  
FULLY COMPENSATED**

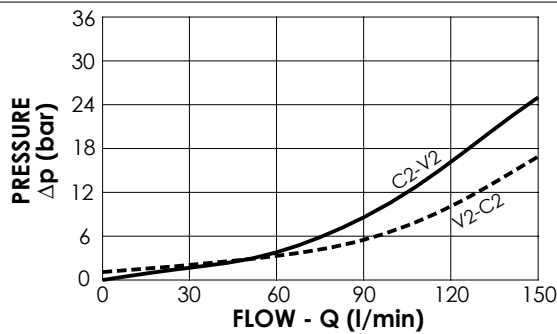
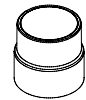


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	3,14 kg

**SEALING CAP**

Ordering code:  
**ST000012**



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

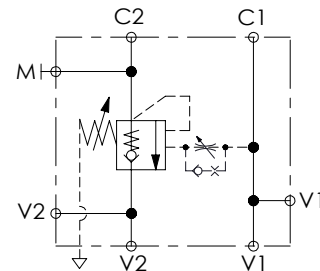
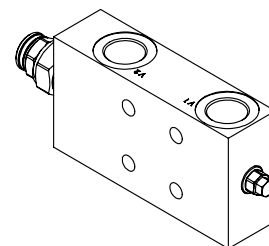
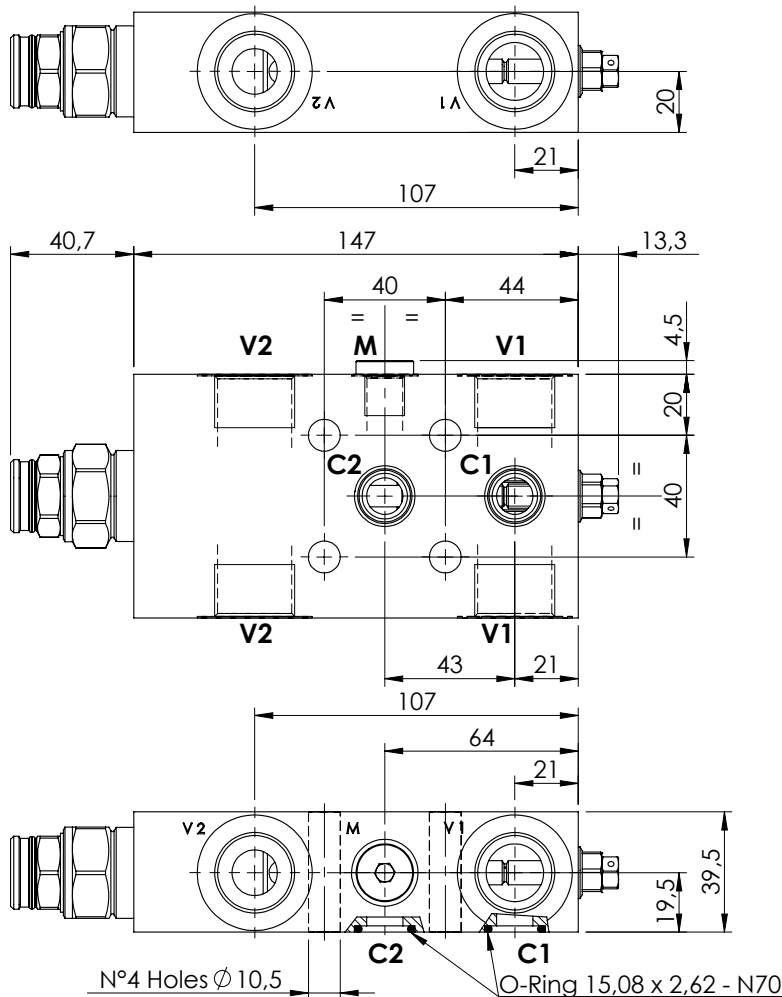
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000267	MBST-150-AANV-04-G34-N350	4:1	V1, V2, C1: G3/4" M: G1/4" C2: Ø11.5	350	100-350	104



OVERCENTRE VALVE

**MBST-150-ABNV**

**SINGLE ACTING  
TWO FLANGED PORTS  
FULLY COMPENSATED**

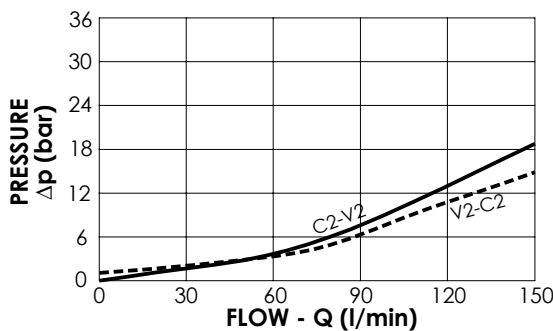
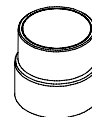


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	3,12 kg

**SEALING CAP**

Ordering code:  
**ST000012**



**NOTES**

Setting: at least 1.3 times the load induced pressure

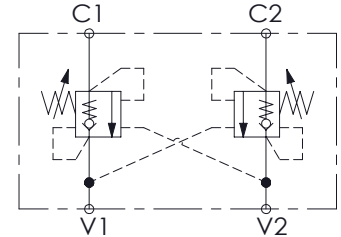
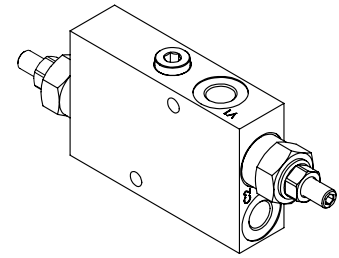
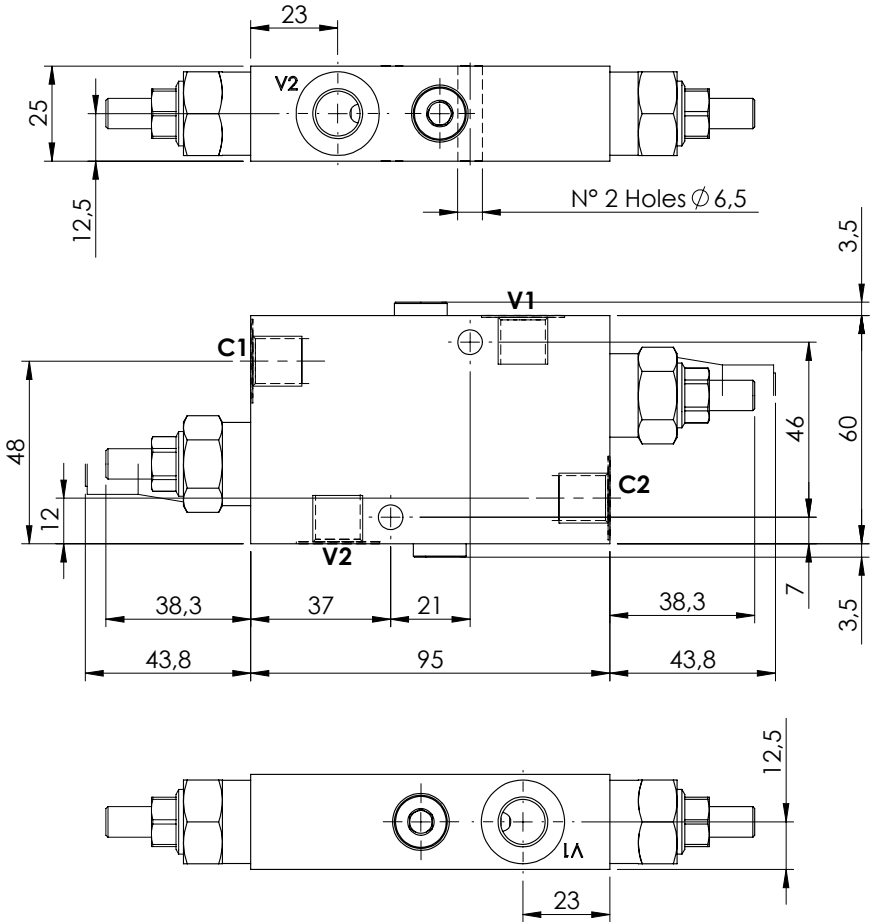
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000561	MBST-150-ABNV-04-G34-N350	4:1	V1, V2: G3/4" M: G 1/4" C1, C2: $\varnothing$ 12	350	100-350	104

OVERCENTRE VALVE

**MBDN-040-ALNP**

DOUBLE ACTING



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Manifold:	Steel
Weight:	1,11 kg

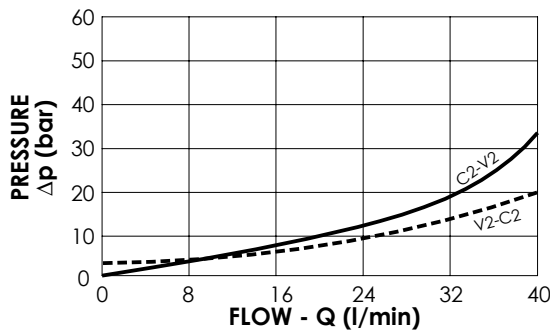
**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure



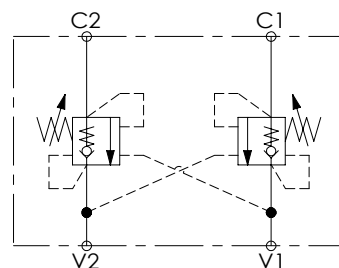
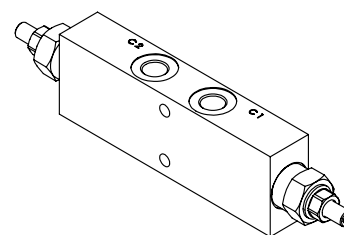
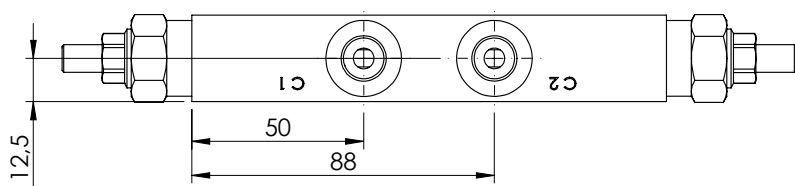
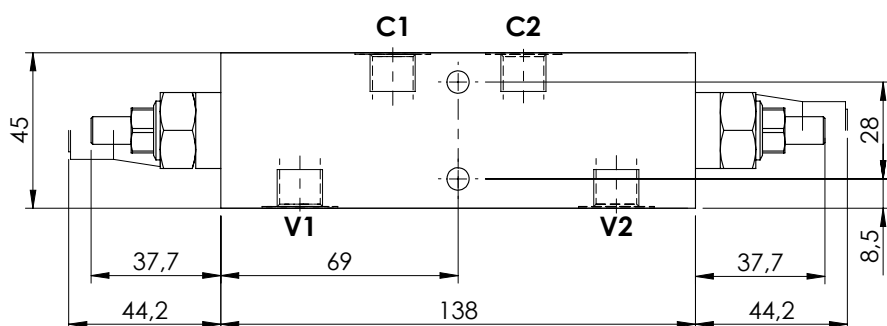
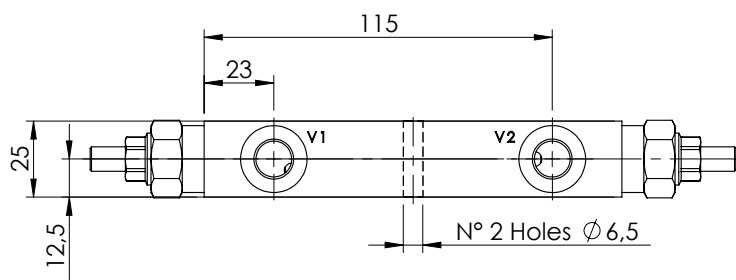
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000219	MBDN-040-ALNP-04-G14-N350	4,1:1	V1, V2: G1/4" C1, C2: G1/4"	350	100-350	184

OVERCENTRE VALVE

**MBDN-040-ALNR**

DOUBLE ACTING



**SPECIFICATIONS**

Max. operating pressure: 350 bar

Rated flow: 40 l/min

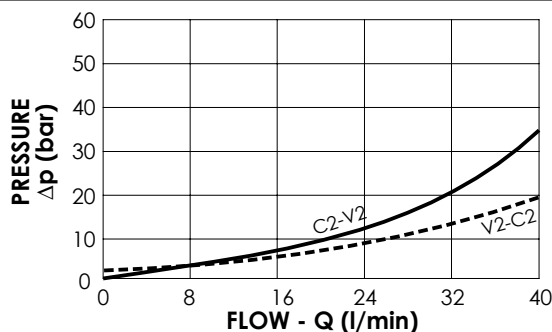
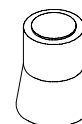
Manifold: Steel

Weight: 1,23 kg

**SEALING CAP**

Ordering code:

AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

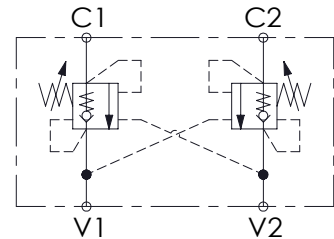
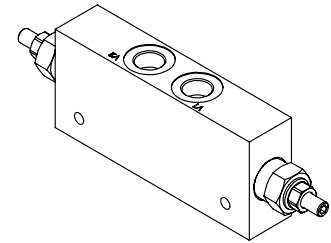
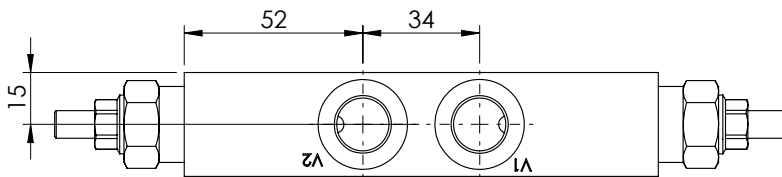
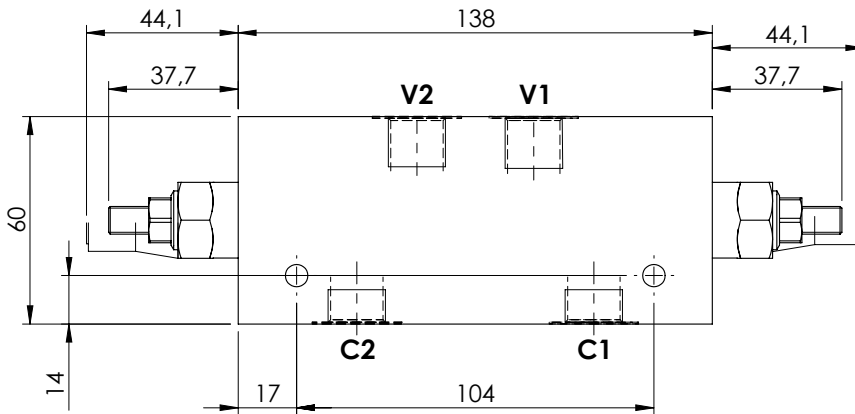
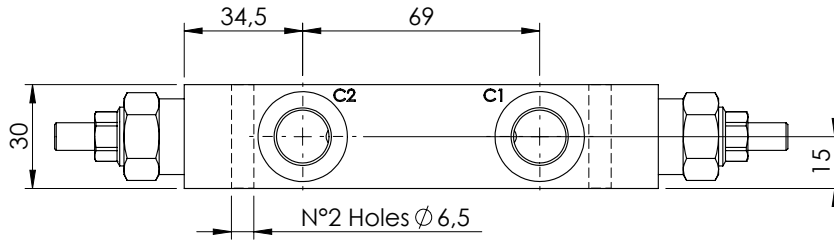
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000072	MBDN-040-ALNR-04-G14-N350	4,1:1	V1, V2: G1/4" C1, C2: G1/4"	350	100-350	184
MB000873	MBDN-040-ALNR-04-G14-N200	4,1:1	V1, V2: G1/4" C1, C2: G1/4"	200	60-210	83
MB000381	MBDN-040-ALNR-08-G14-N350	7,5:1	V1, V2: G1/4" C1, C2: G1/4"	350	100-350	138

OVERCENTRE VALVE

**MBDN-040-ZLNN**

DOUBLE ACTING

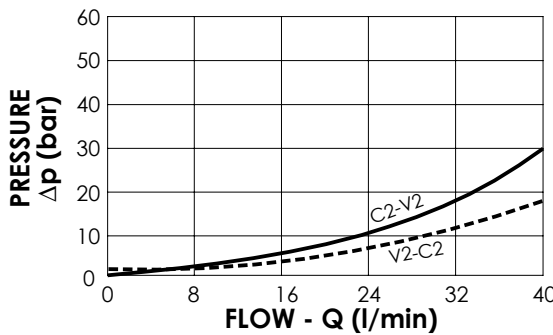
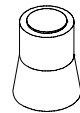


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	0,79 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

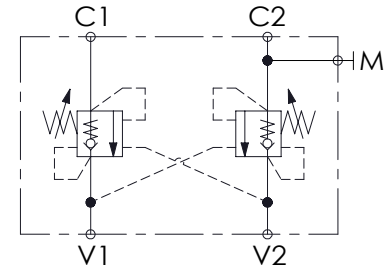
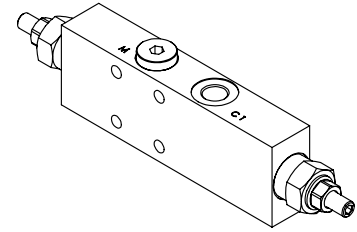
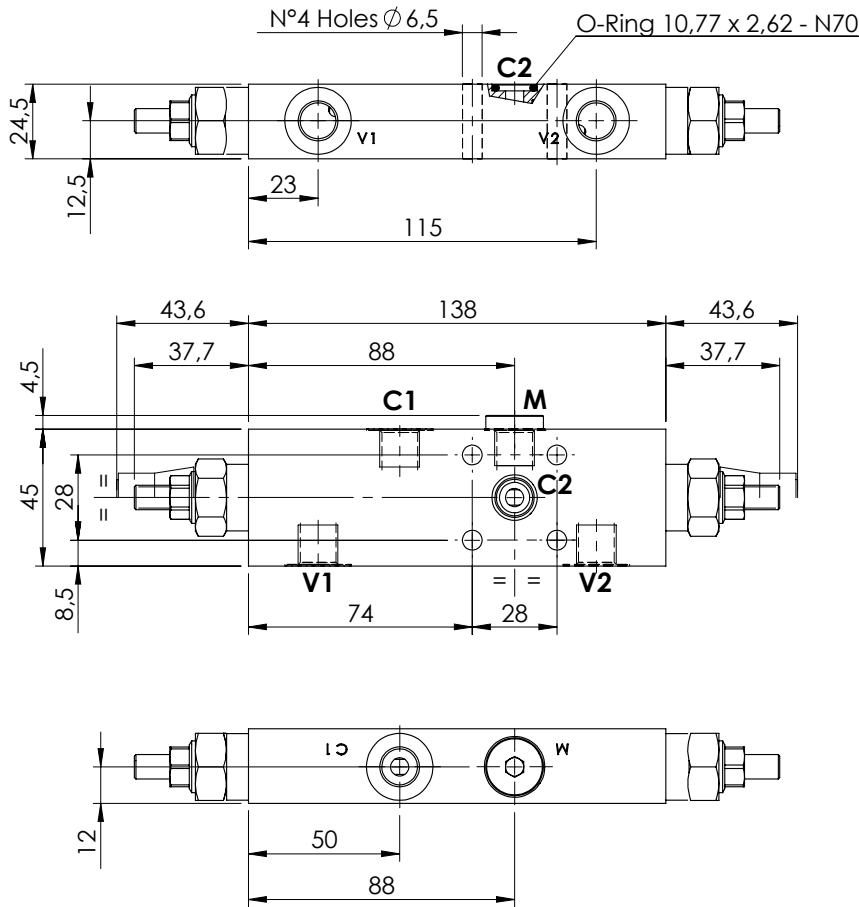
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000310	MBDN-040-ZLNN-04-G38-N350	4,1:1	V1,V2: G 3/8" C1,C2: G 3/8"	350	100-350	184
MB000311	MBDN-040-ZLNN-04-G38-N200	4,1:1	V1,V2: G 3/8" C1,C2: G 3/8"	200	60-210	83
MB000312	MBDN-040-ZLNN-04-G38-N100	4,1:1	V1,V2: G 3/8" C1,C2: G 3/8"	100	45-100	45
MB000341	MBDN-040-ZLNN-07-G38-N350	7,5:1	V1,V2: G 3/8" C1,C2: G 3/8"	350	100-350	138
MB000409	MBDN-040-ZLNN-07-G38-N200	7,5:1	V1,V2: G 3/8" C1,C2: G 3/8"	200	60-210	80



OVERCENTRE VALVE

**MBDN-040-AANR**

**DOUBLE ACTING  
ONE FLANGED PORT**

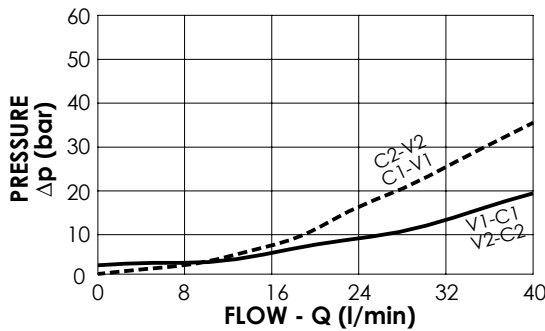
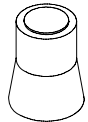


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Manifold:	Steel
Weight:	1,2 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

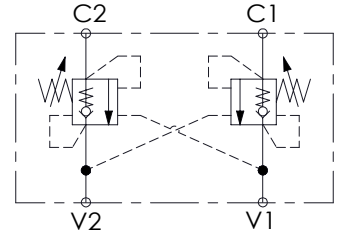
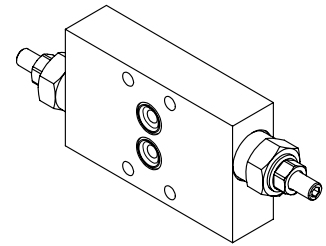
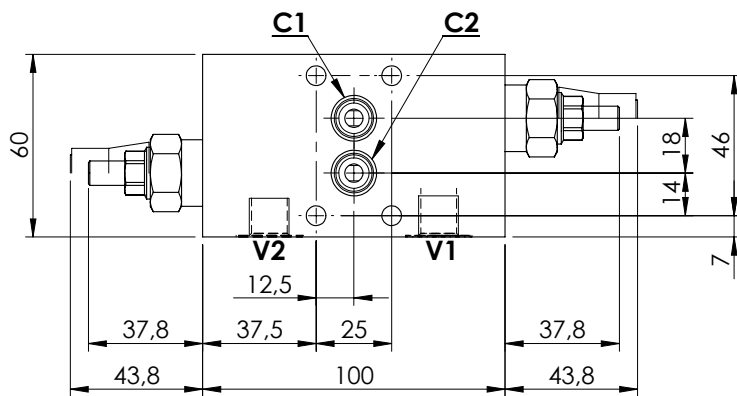
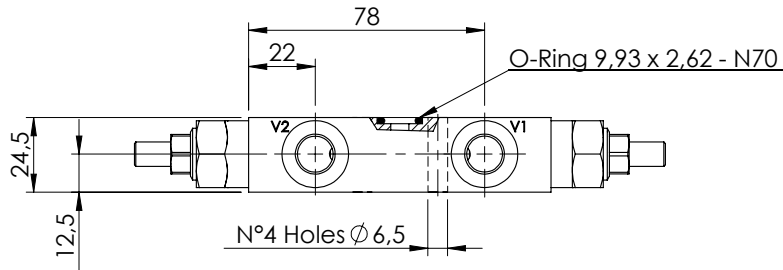
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000106	MBDN-040-AANR-04-G14-N350	4,1:1	V1, V2: G1/4" C1: G1/4" C2:Ø6	350	100-350	184
MB000583	MBDN-040-AANR-07-G14-N350	7,5:1	V1, V2: G1/4" C1: G1/4" C2:Ø6	350	100-350	138

OVERCENTRE VALVE

**MBDN-040-ABNP**

DOUBLE ACTING  
TWO FLANGED PORTS

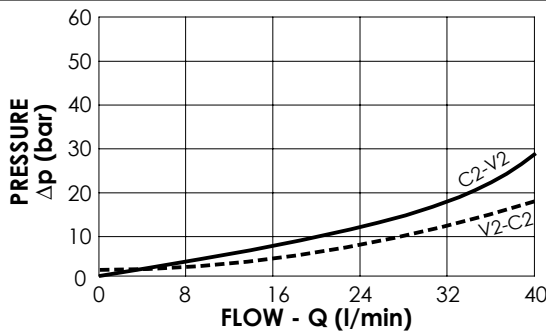
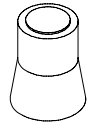


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Manifold:	Steel
Weight:	1,15 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

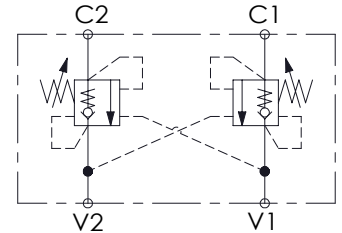
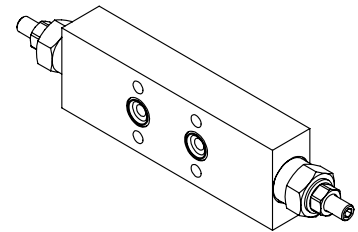
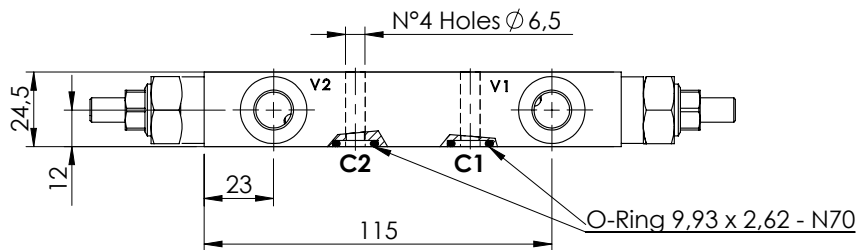
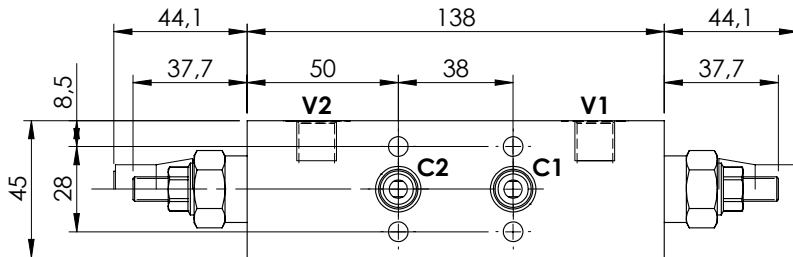
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000334	MBDN-040-ABNP-04-G14-N350	4,1:1	V1, V2: G1/4" C1, C2: Ø6	350	100-350	184

OVERCENTRE VALVE

**MBDN-040-ABNR**

DOUBLE ACTING  
TWO FLANGED PORTS

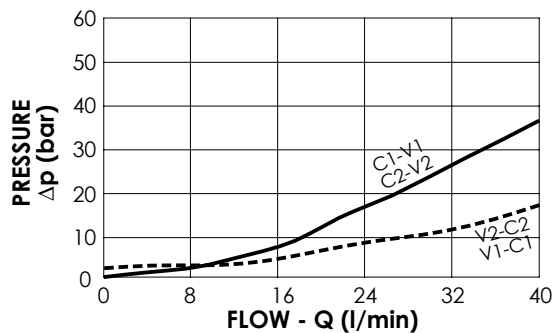
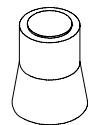


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Manifold:	Steel
Weight:	1,21 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

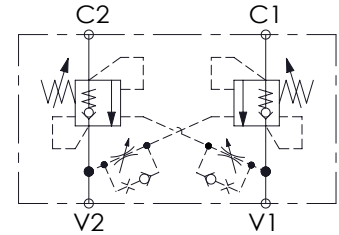
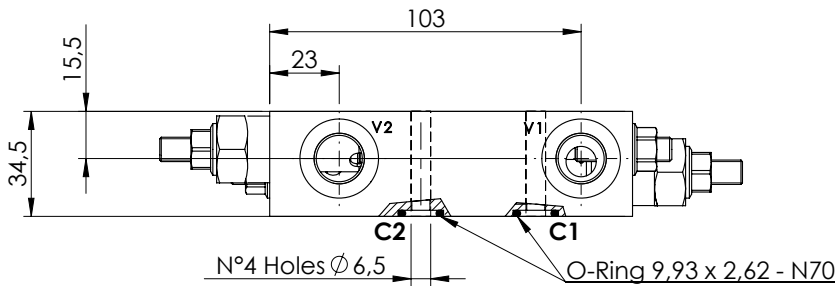
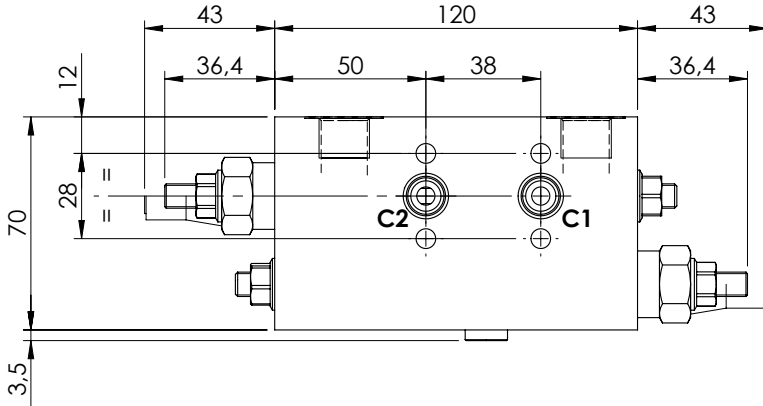
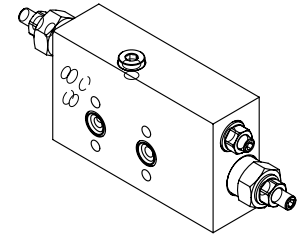
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000110	MBDN-040-ABNR-04-G14-N350	4,1:1	V1, V2: G1/4" C1, C2: Ø6	350	100-350	184
MB000331	MBDN-040-ABNR-08-G14-N350	7,5:1	V1, V2: G1/4" C1, C2: Ø6	350	100-350	138
MB000589	MBDN-040-ABNR-11-G14-N350	11,5:1	V1, V2: G1/4" C1, C2: Ø6	350	100-350	228

OVERCENTRE VALVE

**MBDN-040-ABNV**

DOUBLE ACTING  
TWO FLANGED PORTS

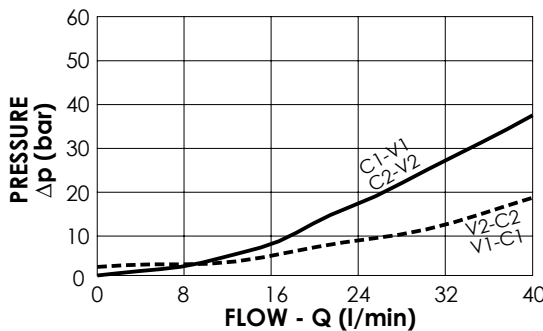
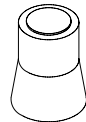


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Manifold:	Steel
Weight:	2,2 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

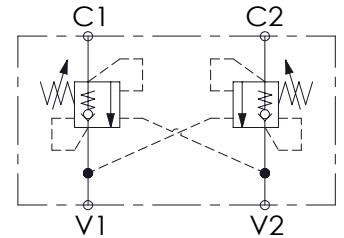
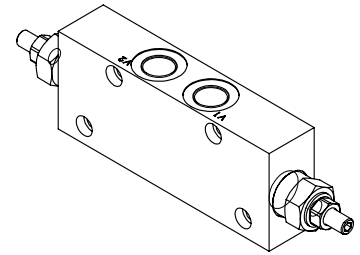
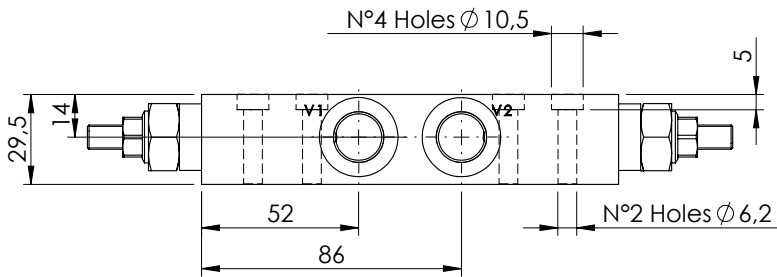
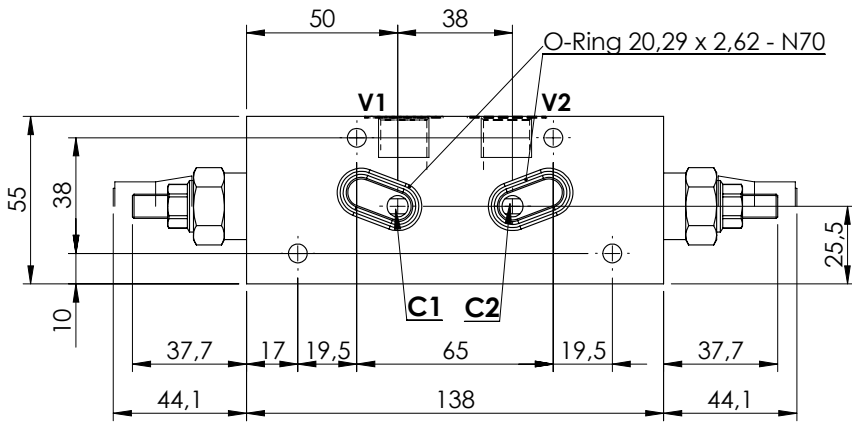
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000590	MBDN-040-ABNV-04-G38-N350	4,1:1	V1, V2: G3/8" C1, C2: Ø6	350	100-350	184

OVERCENTRE VALVE

**MBDN-040-LBNN**

**DOUBLE ACTING  
TWO FLANGED PORTS**

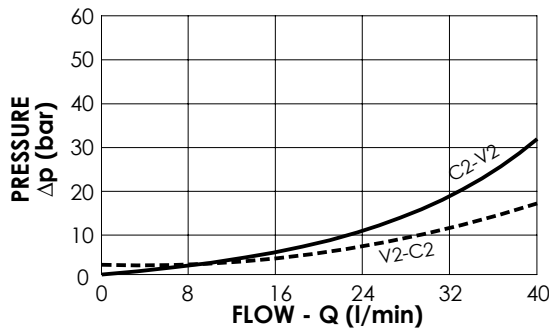
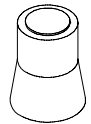


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	0,72 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

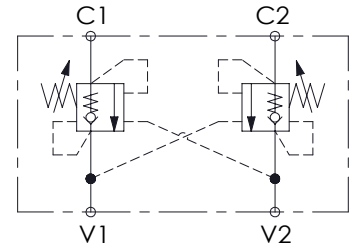
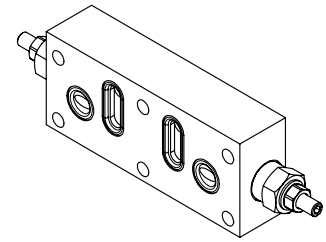
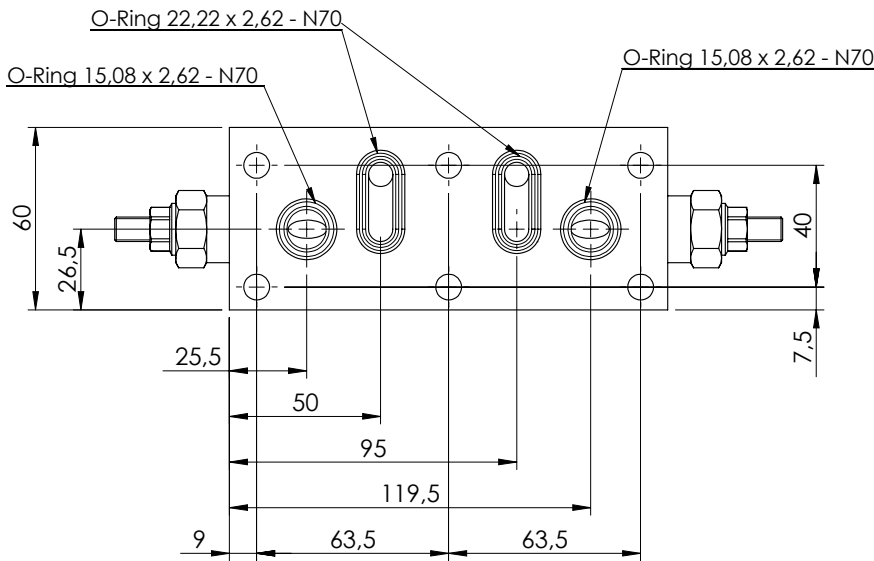
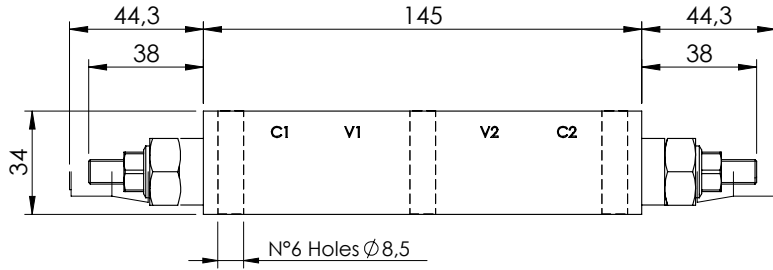
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000410	MBDN-040-ZBNN-04-G38-N350	4,1:1	V1,V2: G3/8" C1,C2: Ø 7	350	100-350	184
MB000411	MBDN-040-LBNN-04-G38-N200	4,1:1	V1,V2: G3/8" C1,C2: Ø 7	200	60-210	83
MB000412	MBDN-040-LBNN-07-G38-N350	7,5:1	V1,V2: G3/8" C1,C2: Ø 7	350	100-350	138
MB000413	MBDN-040-LBNN-07-G38-N200	7,5:1	V1,V2: G3/8" C1,C2: Ø 7	200	60-210	80

OVERCENTRE VALVE

**MBDN-040-ZDNA**

DOUBLE ACTING  
ALL FLANGED PORTS

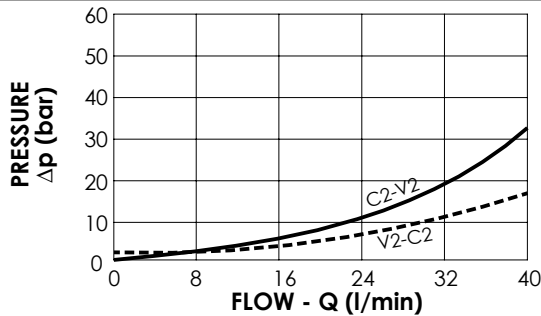
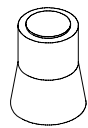


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Weight:	0.9 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

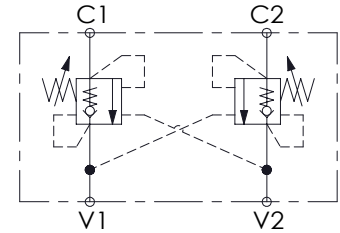
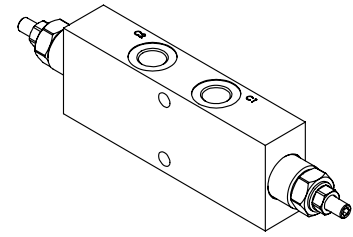
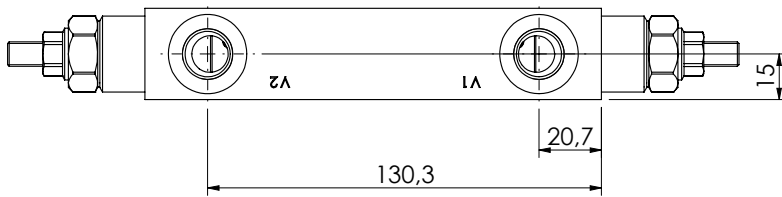
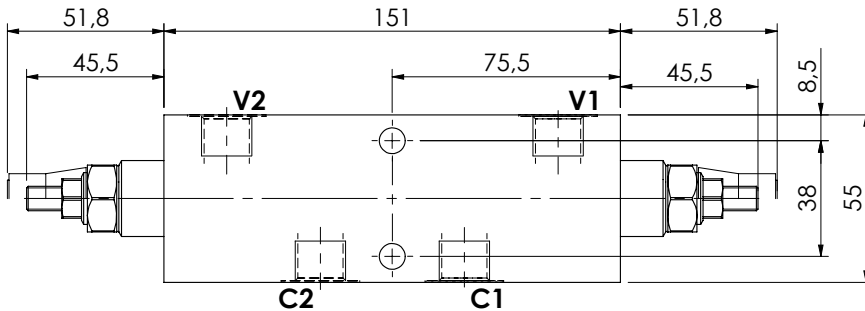
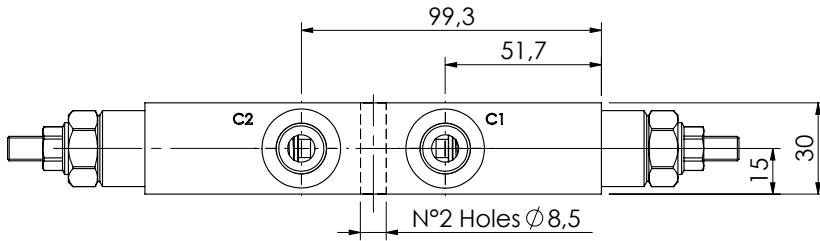
Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000523	MBDN-040-ZDNA-04-PTF-N350	4,1:1	Aluminium	V1,V2: Ø 8 C1,C2: Ø 8	350	100-350	184
MB000524	MBDN-040-ZDNA-04-PTF-N200	4,1:1	Aluminium	V1,V2: Ø 8 C1,C2: Ø 8	200	60-210	83

OVERCENTRE VALVE

**MBDN-060-ALNR** DOUBLE ACTING

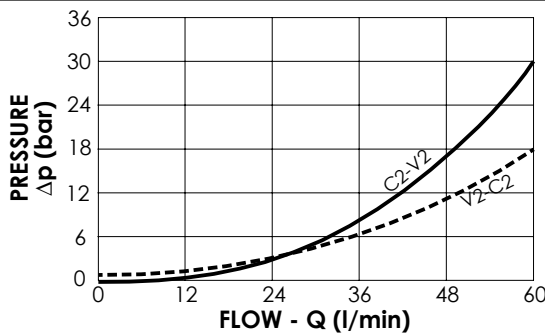
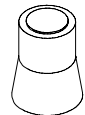


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,92 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

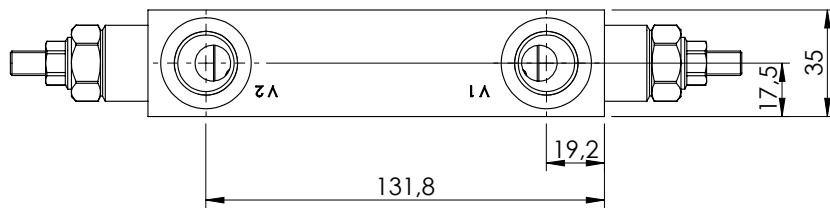
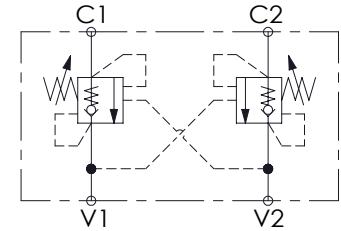
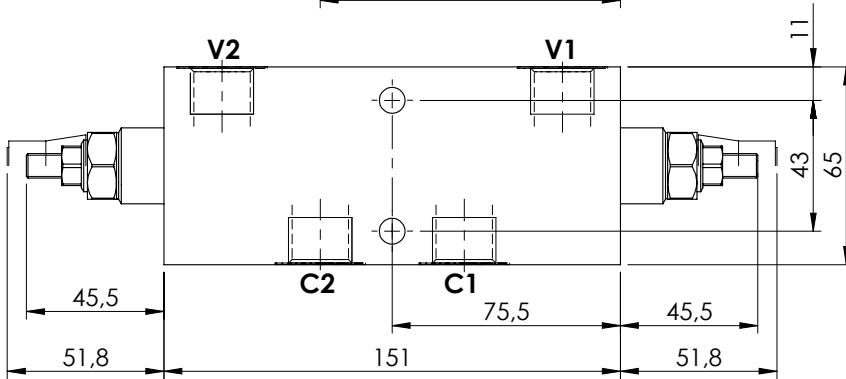
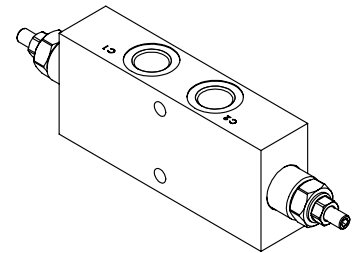
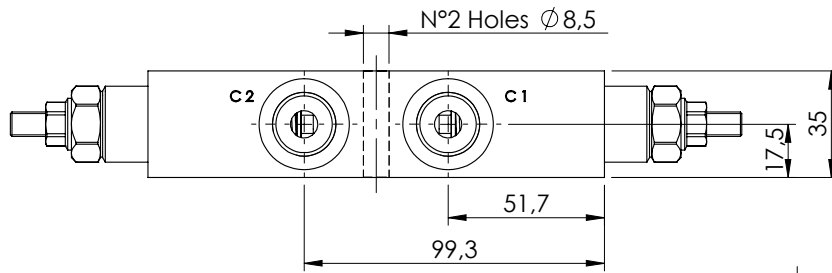
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000006	MBDN-060-ALNR-04-G38-N350	4,2:1	V1, V2: G3/8" C1, C2: G3/8"	350	100-350	138
MB000084	MBDN-060-ALNR-04-G38-N200	4,2:1	V1, V2: G3/8" C1, C2: G3/8"	200	60-210	62
MB000186	MBDN-060-ALNR-11-G38-N250	11:1	V1, V2: G3/8" C1, C2: G3/8"	250	60-250	69

OVERCENTRE VALVE

**MBDN-060-ALNR**

DOUBLE ACTING

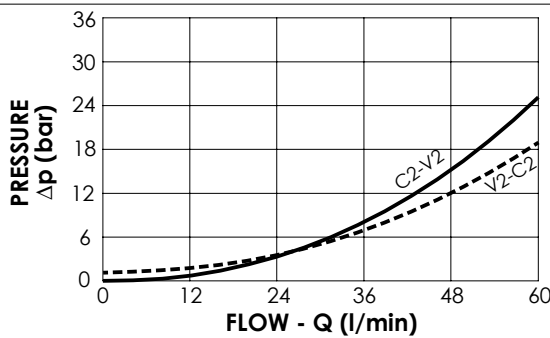
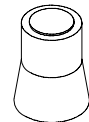


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	2,56 kg

**SEALING CAP**

Ordering code:  
AT00020



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

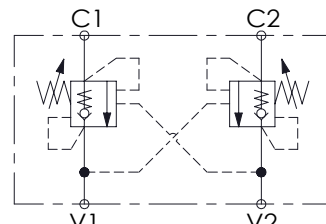
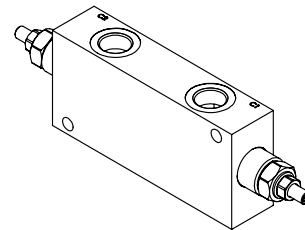
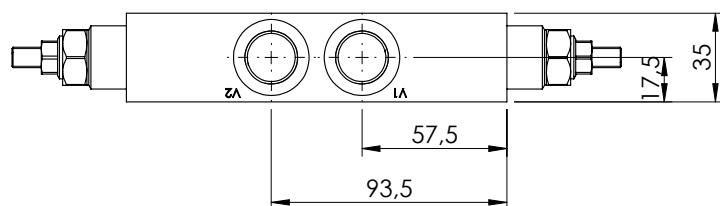
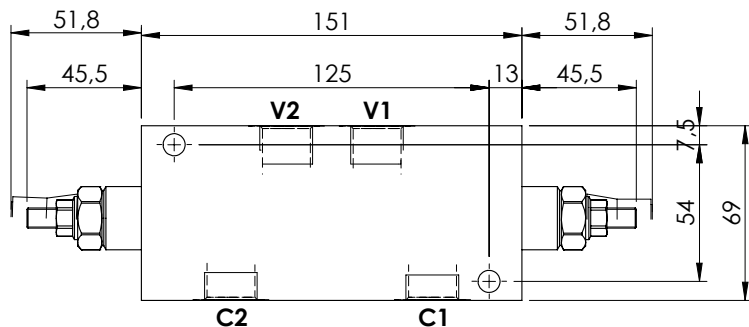
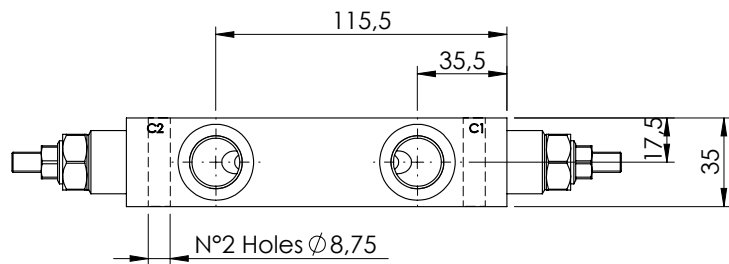
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000009	MBDN-060-ALNR-04-G12-N350	4,2:1	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	138
MB000263	MBDN-060-ALNR-04-G12-N200	4,2:1	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	62
MB000391	MBDN-060-ALNR-11-G12-N350	11:1	V1, V2: G1/2" C1, C2: G1/2"	350	60-350	69



OVERCENTRE VALVE

**MBDN-060-ZLDE**

DOUBLE ACTING



**SPECIFICATIONS**

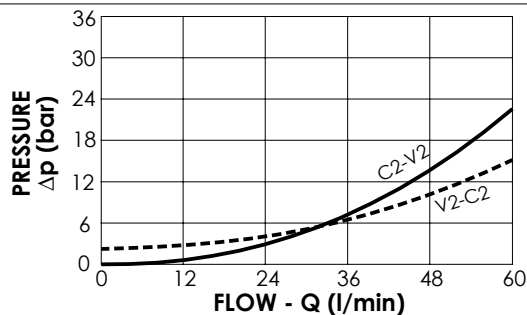
Max. operating pressure: 350 bar

Rated flow: 60 l/min

Weight: Aluminium 1.1 kg; Steel 2.7 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

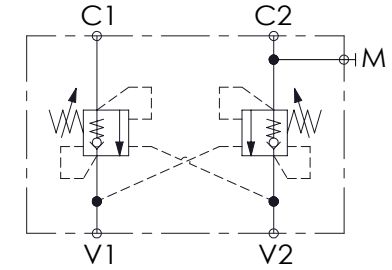
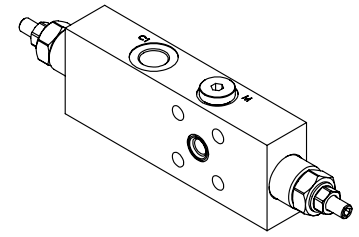
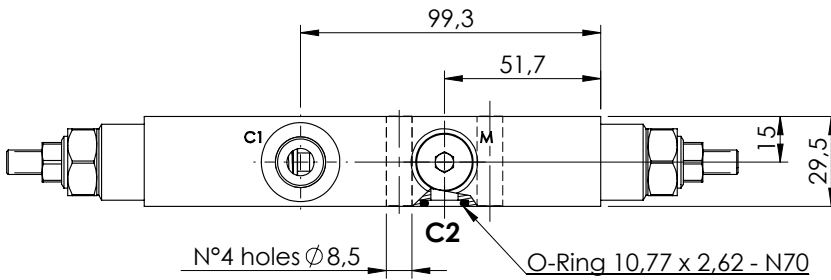
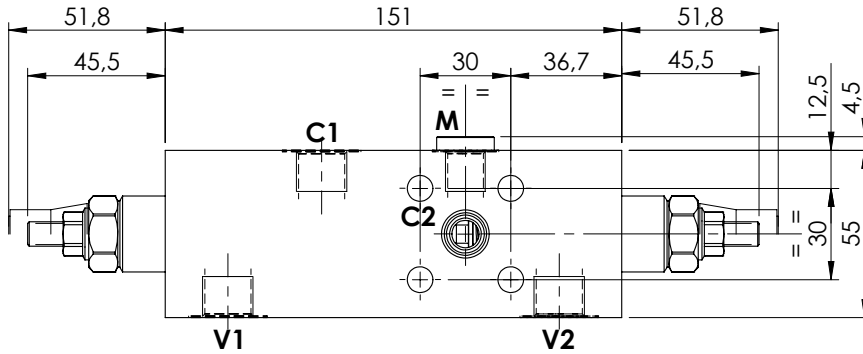
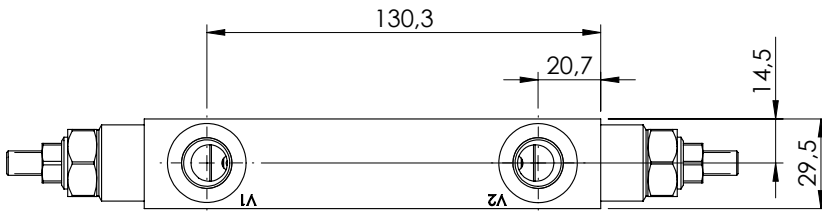
**ORDERING CODES**

Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000321	MBDN-060-ZLDE-04-G12-N350	4.2:1	Aluminium	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	138
MB000443	MBDN-060-ZLDE-04-G12-N200	4.2:1	Aluminium	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	62
MB000444	MBDN-060-ALDE-04-G12-N350	4.2:1	Steel	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	138
MB000445	MBDN-060-ALDE-04-G12-N200	4.2:1	Steel	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	62
MB000320	MBDN-060-ZLDE-07-G12-N350	7:1	Aluminium	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	106
MB000446	MBDN-060-ZLDE-07-G12-N200	7:1	Aluminium	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	46
MB000447	MBDN-060-ALDE-07-G12-N350	7:1	Steel	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	106
MB000448	MBDN-060-ALDE-07-G12-N200	7:1	Steel	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	46

OVERCENTRE VALVE

**MBDN-060-AANR**

**DOUBLE ACTING  
ONE FLANGED PORT**

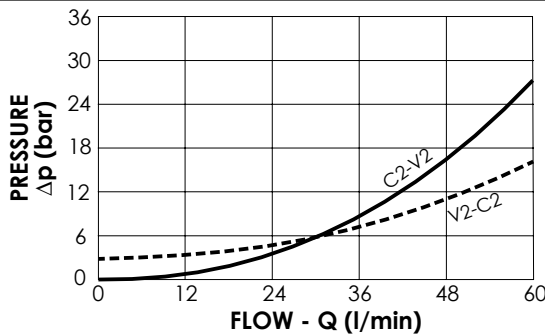
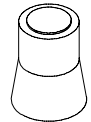


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,88 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

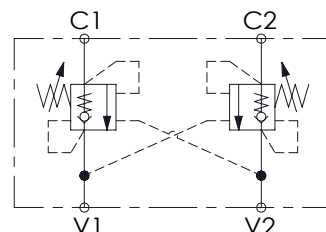
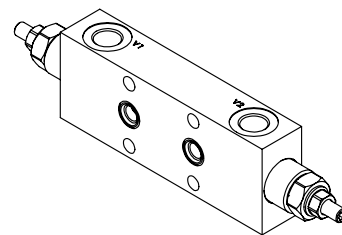
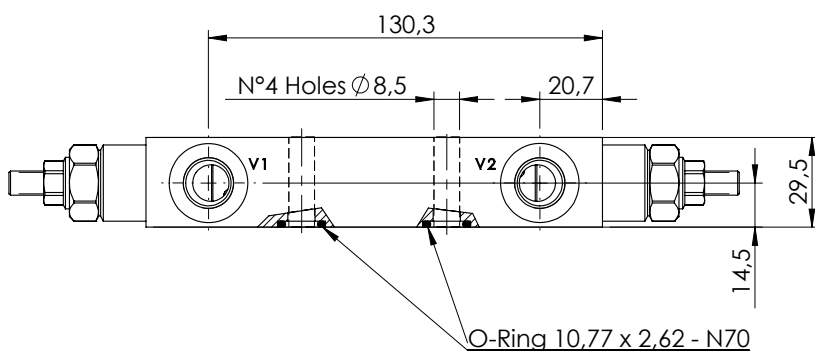
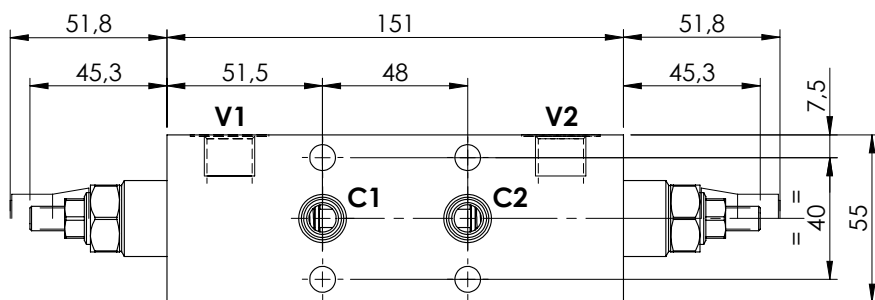
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000008	MBDN-060-AANR-04-G38-N350	4,2:1	V1, V2, C1: G3/8" C2: Ø9 M: G1/4"	350	100-350	138

OVERCENTRE VALVE

**MBDN-060-ABNR**

DOUBLE ACTING  
TWO FLANGED PORTS

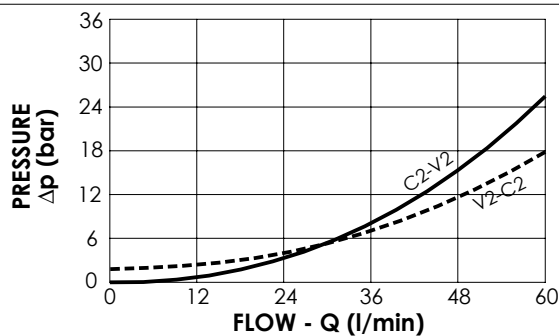
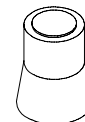


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,89 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

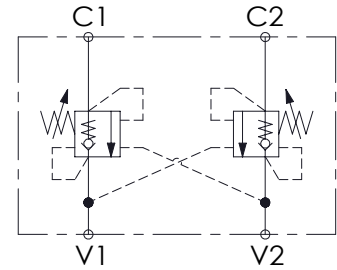
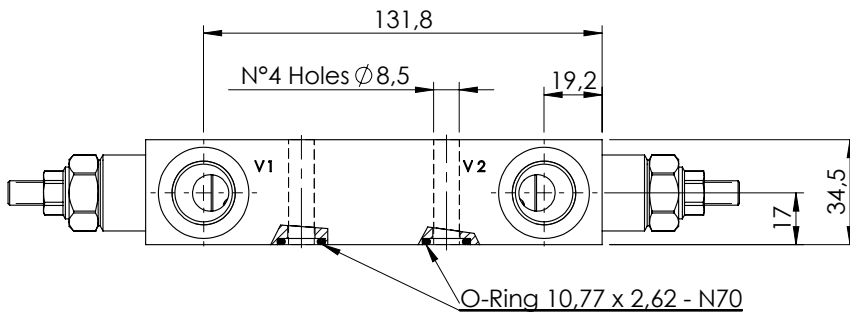
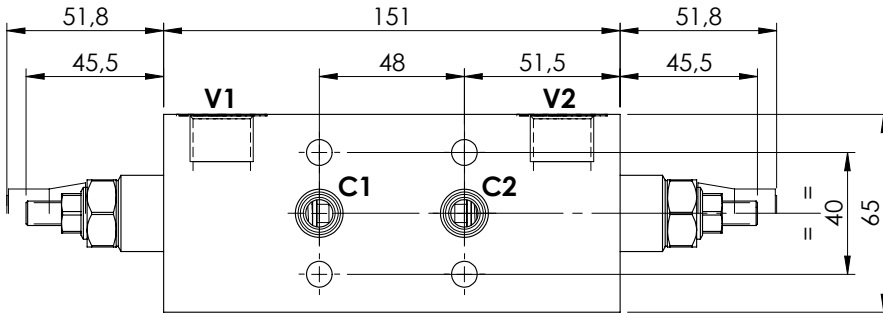
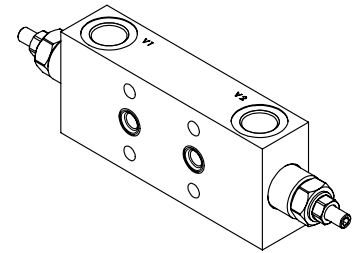
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000235	MBDN-060-ABNR-11-G38-N250	11:1	V1, V2: G3/8" C1, C2: Ø 9	200	60-250	69
MB000087	MBDN-060-ABNR-04-G38-N350	4,2:1	V1, V2: G3/8" C1, C2: Ø 9	350	100-350	138
MB000178	MBDN-060-ABNR-04-G38-N200	4,2:1	V1, V2: G3/8" C1, C2: Ø 9	200	60-210	62
MB000826	MBDN-060-ABNR-07-G38-N350	7:1	V1, V2: G3/8" C1, C2: Ø 9	350	100-350	106

OVERCENTRE VALVE

**MBDN-060-ABNR**

DOUBLE ACTING,  
TWO FLANGED PORTS

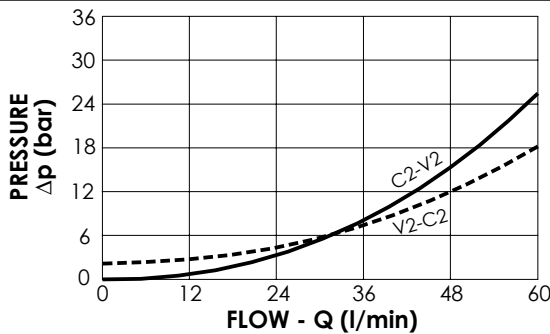
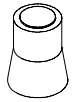


**SPECIFICATIONS**

Max operating pressure:	420 bar
Rated flow:	60 l/min
Manifold :	Steel
Weight:	2,57 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

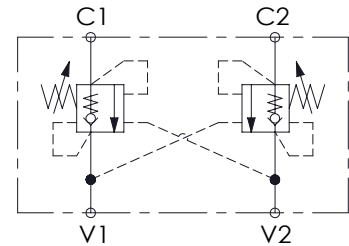
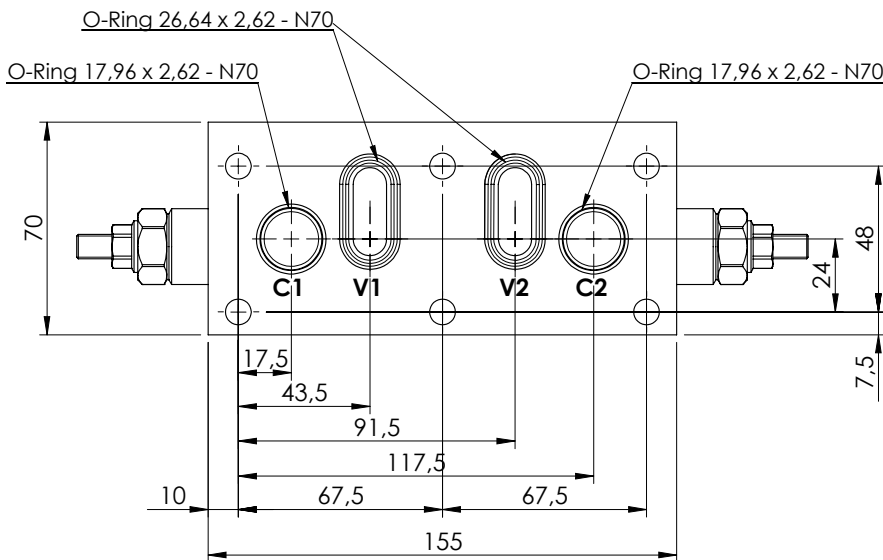
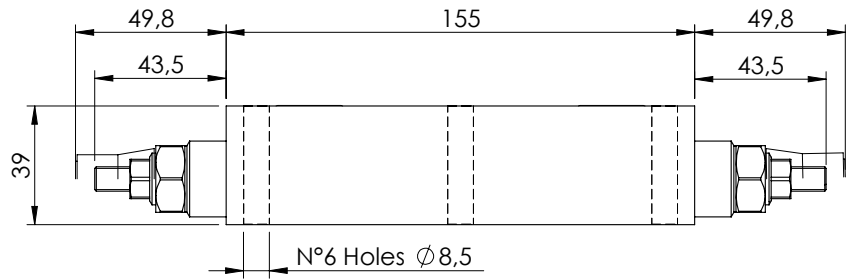
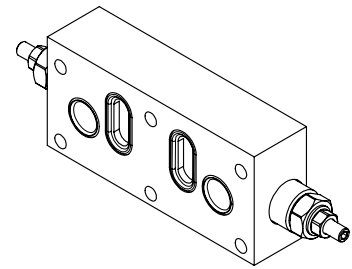
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Pressure range (bar)	Pressure increase (bar/turn)
MB000016	MBDN-060-ABNR-04-G12-N350	4,2:1	V1, V2: G1/2" C1, C2: Ø9	350	100-350	138
MB000228	MBDN-060-ABNR-04-G12-N200	4,2:1	V1, V2: G1/2" C1, C2: Ø9	200	60-210	62
MB000229	MBDN-060-ABNR-11-G12-N200	11:1	V1, V2: G1/2" C1, C2: Ø9	200	60-250	69
MB000380	MBDN-060-ABNR-11-G12-N350	11:1	V1, V2: G1/2" C1, C2: Ø9	350	150-420	161

OVERCENTRE VALVE

**MBDN-060-ZDNA**

DOUBLE ACTING  
ALL FLANGED PORTS

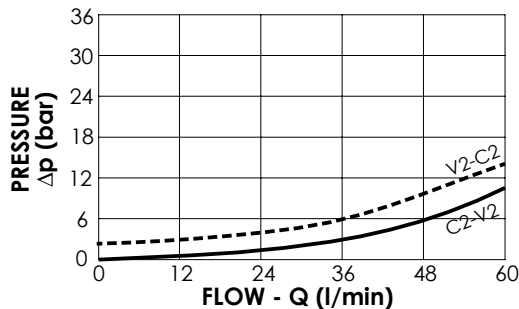
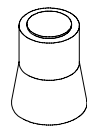


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Weight:	Aluminium 1.3kg, Steel 3.1kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

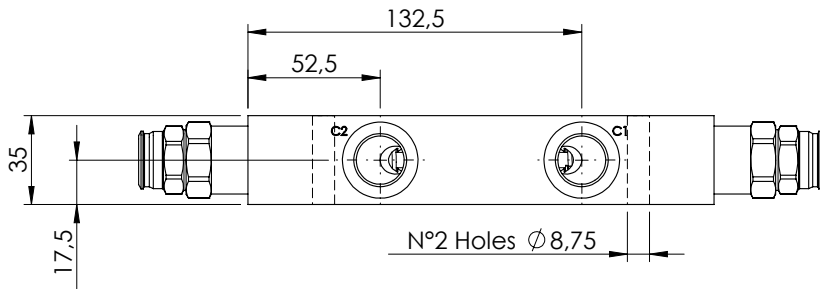
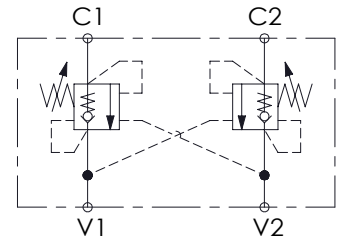
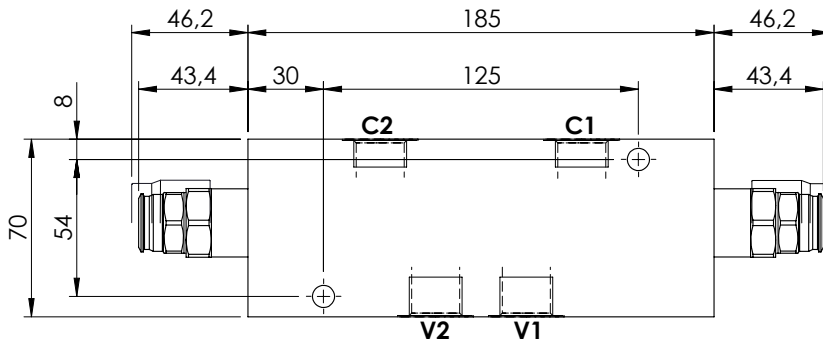
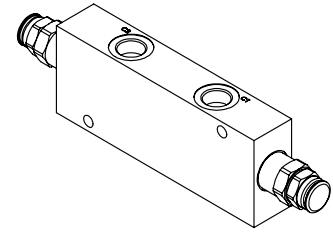
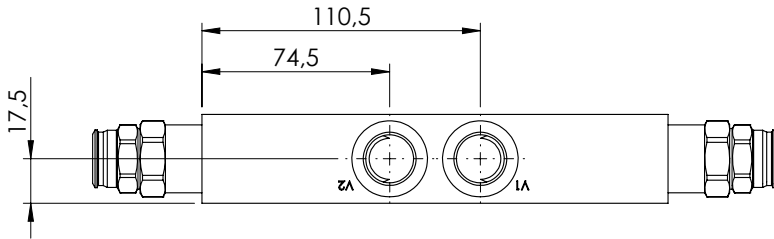
Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000404	MBDN-060-ZDNA-04-PTF-N350	4,2:1	Aluminium	V1,V2: $\varnothing 10$ C1,C2: $\varnothing 10$	350	100-350	138
MB000405	MBDN-060-ZDNA-04-PTF-N200	4,2:1	Aluminium	V1,V2: $\varnothing 10$ C1,C2: $\varnothing 10$	200	60-210	62
MB000424	MBDN-060-ADNA-04-PTF-N350	4,2:1	Steel	V1,V2: $\varnothing 10$ C1,C2: $\varnothing 10$	350	100-350	138
MB000442	MBDN-060-ADNA-04-PTF-N200	4,2:1	Steel	V1,V2: $\varnothing 10$ C1,C2: $\varnothing 10$	200	60-210	62
MB000399	MBDN-060-ZDNA-07-PTF-N350	7:1	Aluminium	V1,V2: $\varnothing 10$ C1,C2: $\varnothing 10$	350	100-350	106
MB000403	MBDN-060-ZDNA-07-PTF-N200	7:1	Aluminium	V1,V2: $\varnothing 10$ C1,C2: $\varnothing 10$	200	60-210	46
MB000441	MBDN-060-ADNA-07-PTF-N350	7:1	Steel	V1,V2: $\varnothing 10$ C1,C2: $\varnothing 10$	350	100-350	106
MB000440	MBDN-060-ADNA-07-PTF-N200	7:1	Steel	V1,V2: $\varnothing 10$ C1,C2: $\varnothing 10$	200	60-210	46

OVERCENTRE VALVE

**MBDN-100-ALDE** DOUBLE ACTING

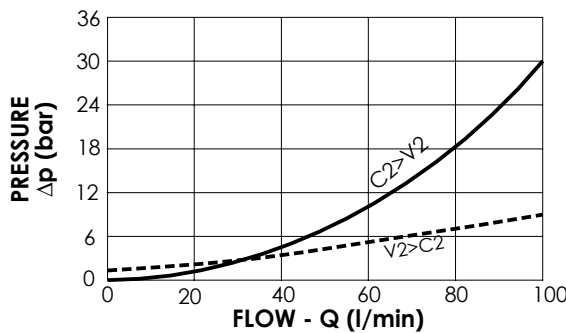
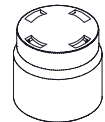


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Manifold:	Steel
Weight:	Steel 3,42 kg

**SEALING CAP**

Ordering code:  
PT000243



**NOTES**

Setting: at least 1.3 times the load induced pressure

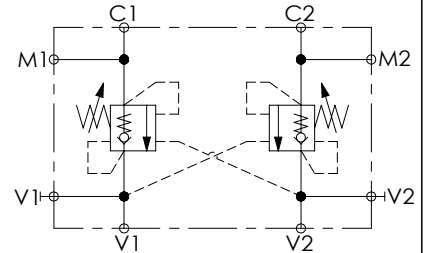
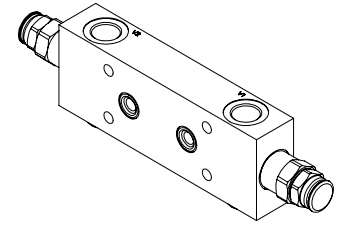
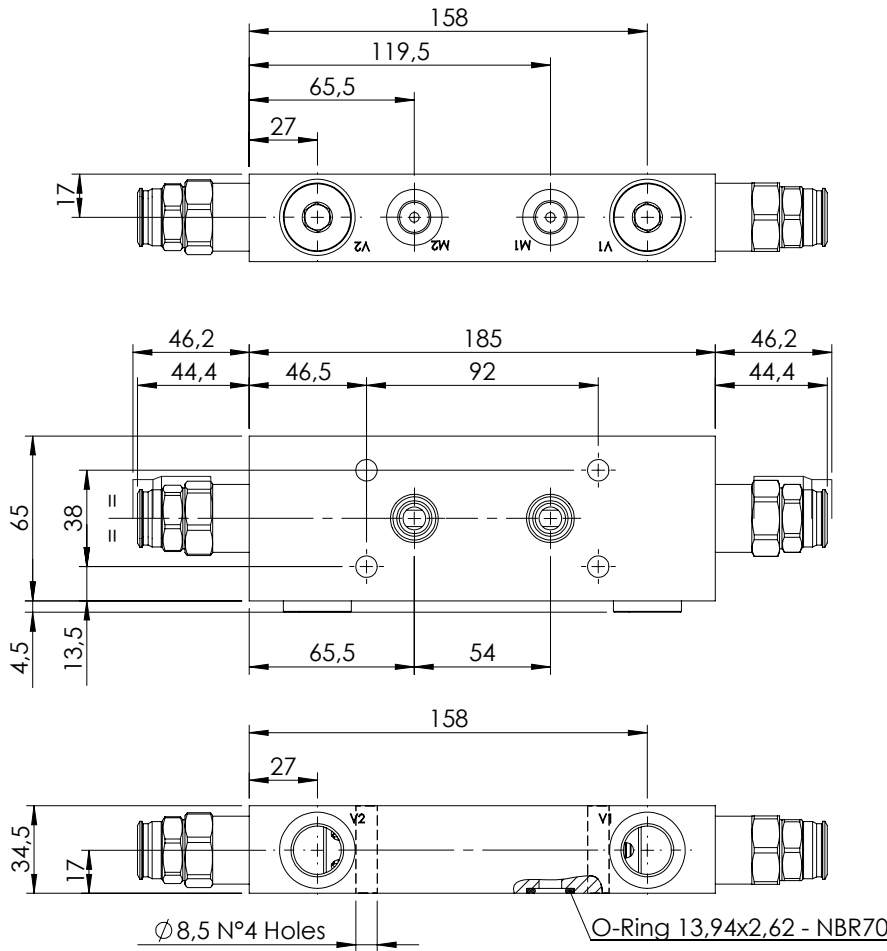
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Manifold material	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressur increase (bar/turn)
MB000398	MBDN-100-ALDE-04-G12-N350	4:1	V1,V2: G 1/2" C1,C2: G 1/2"	Steel	350	100-350	118
MB000400	MBDN-100-ALDE-04-G12-N200	4:1	V1,V2: G 1/2" C1,C2: G 1/2"	Steel	200	70-210	68
MB000395	MBDN-100-ALDE-08-G12-N350	8:1	V1,V2: G 1/2" C1,C2: G 1/2"	Steel	350	100-350	132
MB000401	MBDN-100-ALDE-08-G12-N200	8:1	V1,V2: G 1/2" C1,C2: G 1/2"	Steel	200	70-210	74

OVERCENTRE VALVE

**MBDN-100-ABNR**

DOUBLE ACTING  
TWO FLANGED PORTS

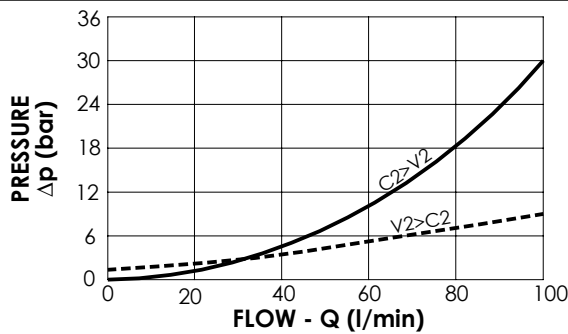
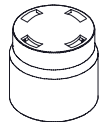


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Manifold:	Steel
Weight:	3,19 kg

**SEALING CAP**

Ordering code:  
**PT000243**



**NOTES**

Setting: at least 1.3 times the load induced pressure

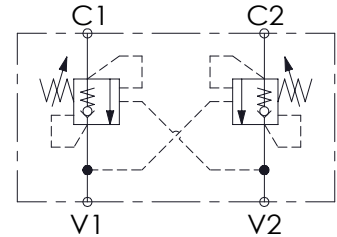
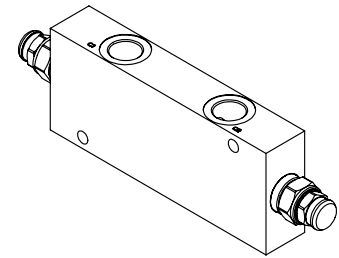
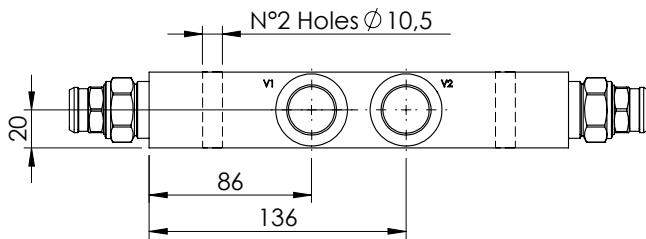
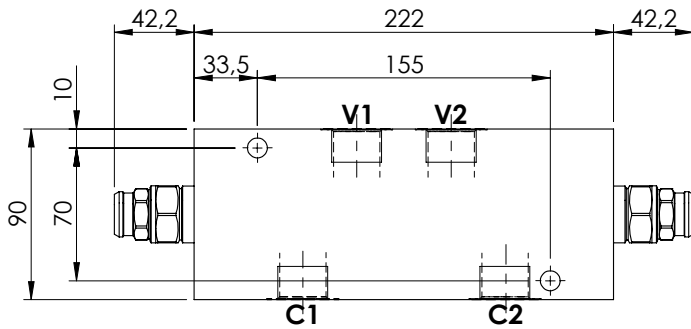
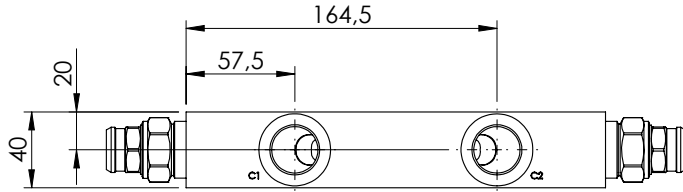
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000911	MBDN-100-ABNR-04-G12-N350	4:1	V1,V2:G 1/2" C1,C2: Ø9 M1,M2:G 1/4"	350	100-350	118

OVERCENTRE VALVE

**MBDN-150-ZLDE**

DOUBLE ACTING

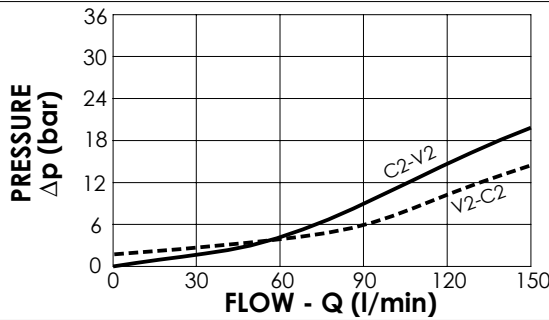
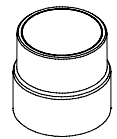


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Weight:	Aluminium 2,4 kg; Steel 5.7 kg

**SEALING CAP**

Ordering code:  
ST000012



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

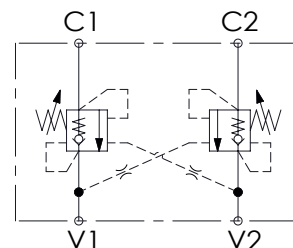
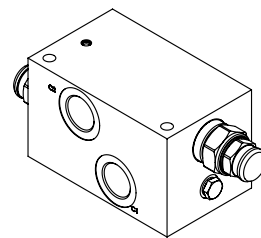
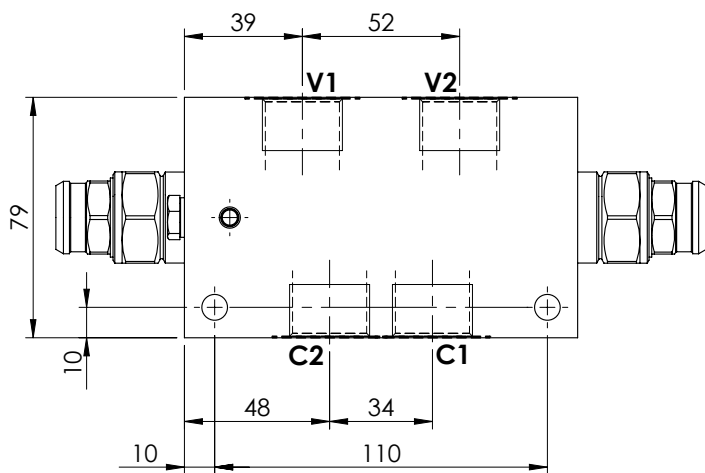
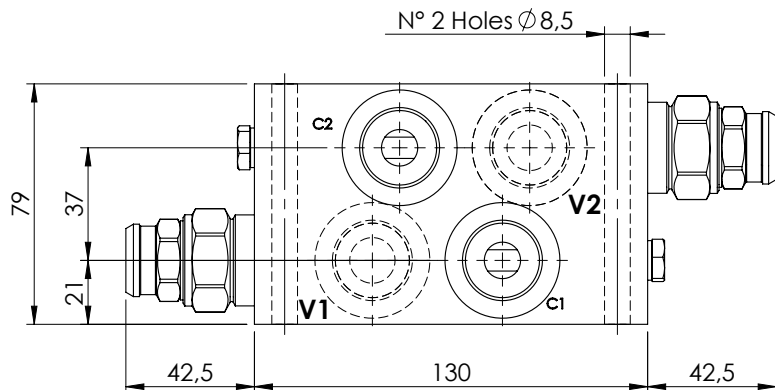
Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000414	MBDN-150-ZLDE-04-G34-N350	4:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	350	100-350	104
MB000415	MBDN-150-ZLDE-04-G34-N200	4:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	56
MB000407	MBDN-150-ZLDE-08-G34-N350	8:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	350	100-350	82
MB000408	MBDN-150-ZLDE-08-G34-N200	8:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	47
MB000420	MBDN-150-ALDE-04-G34-N350	4:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	350	100-350	104
MB000421	MBDN-150-ALDE-04-G34-N200	4:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	56
MB000418	MBDN-150-ALDE-08-G34-N350	8:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	350	100-350	82
MB000419	MBDN-150-ALDE-08-G34-N200	8:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	47



OVERCENTRE VALVE

**MBDN-150-ZLNP**

DOUBLE ACTING

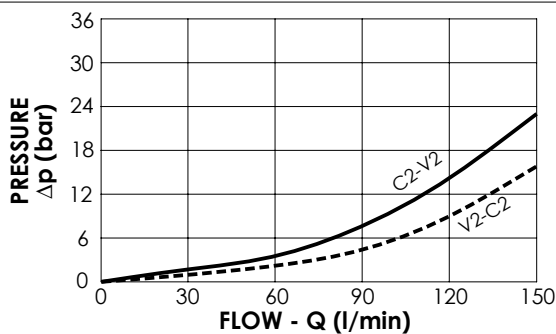
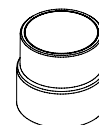


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Aluminium
Weight:	2,49 kg

**SEALING CAP**

Ordering code:  
ST000012



**NOTES**

Setting: at least 1.3 times the load induced pressure

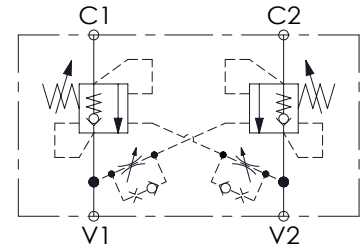
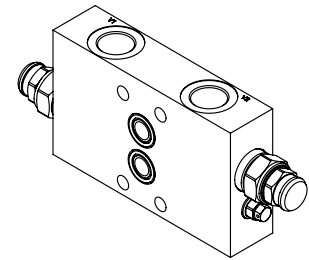
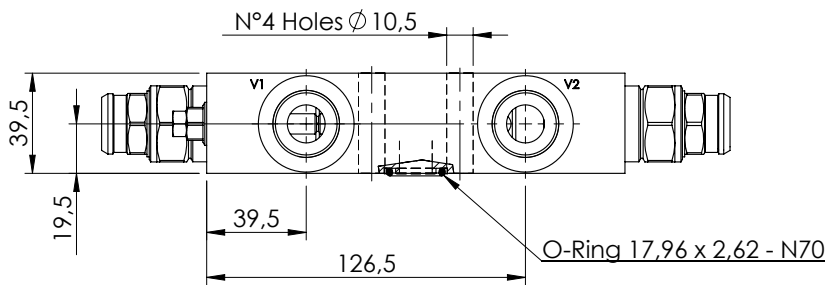
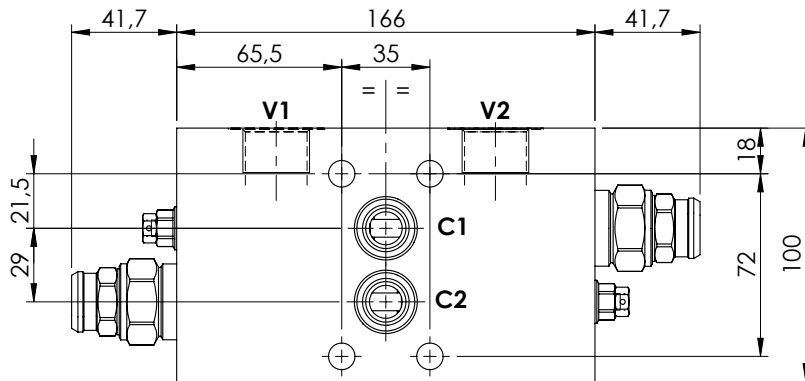
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000210	MBDN-150-ZLNP-04-G34-N350	4:1	V1, V2: G3/4" C1, C2: G3/4"	350	100-350	104

OVERCENTRE VALVE

**MBDN-150-ZBNV**

DOUBLE ACTING  
TWO FLANGED PORTS

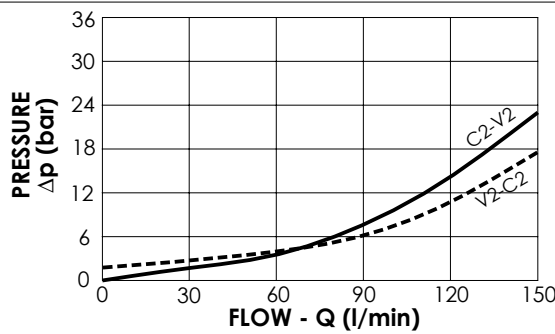
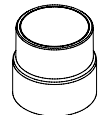


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Aluminium
Weight:	2,15 kg

**SEALING CAP**

Ordering code:  
ST00012



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

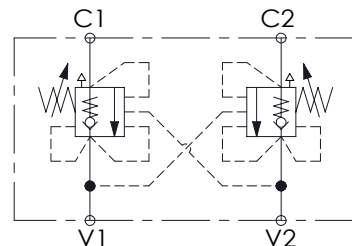
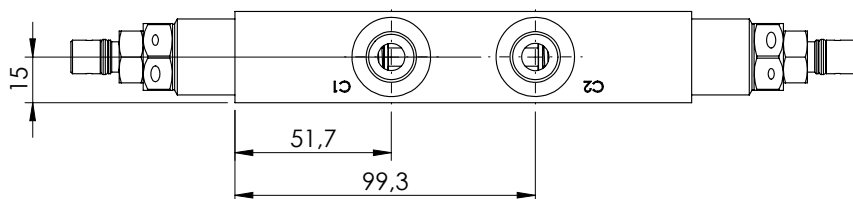
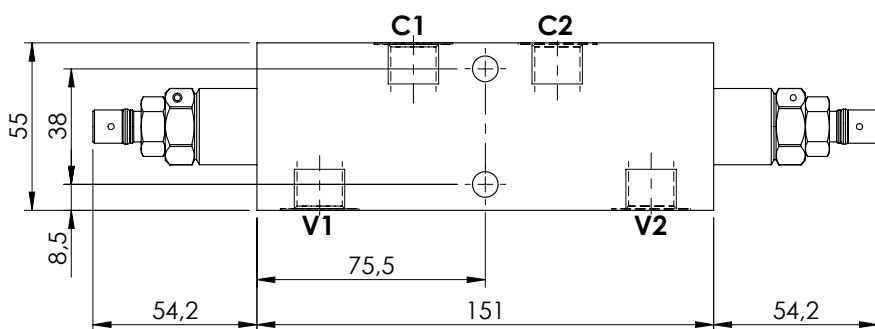
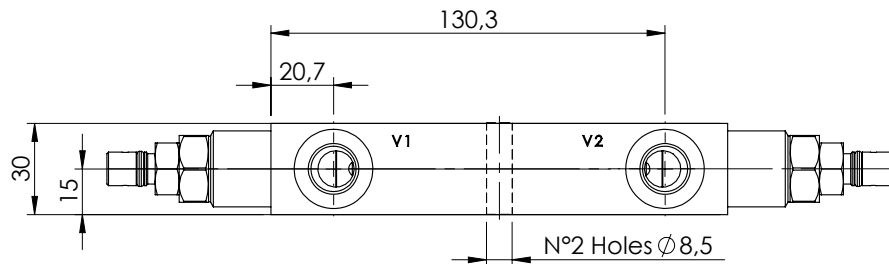
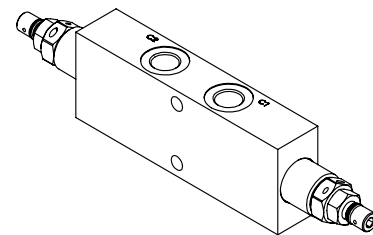
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000428	MBDN-150-ZBNV-04-G34-N350	4:1	V1,V2 : G3/4" C1,C2 : Ø 13	350	100-350	104



OVERCENTRE VALVE

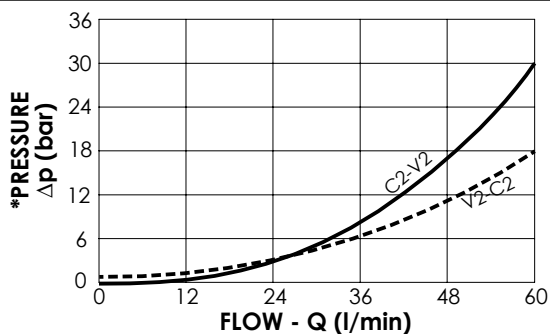
**MBDP-060-ALNR**

DOUBLE ACTING  
RELIEF COMPENSATED



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,98 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

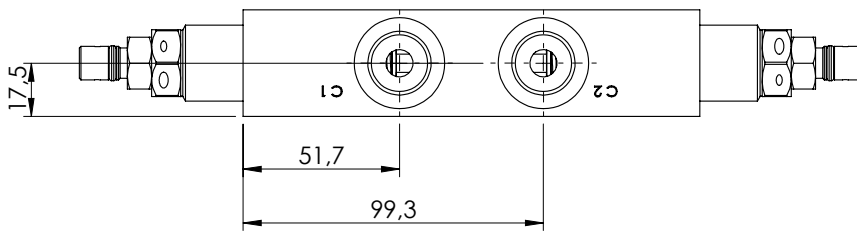
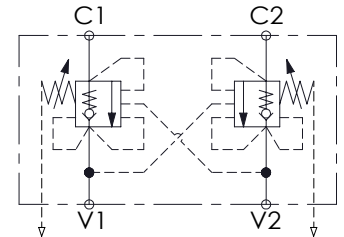
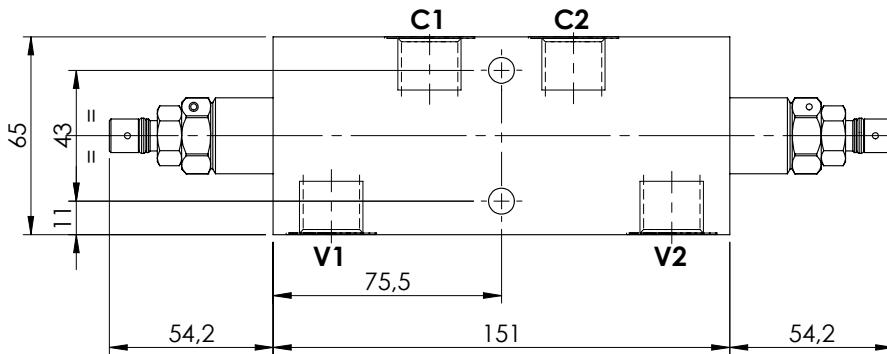
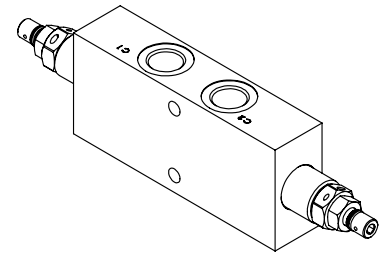
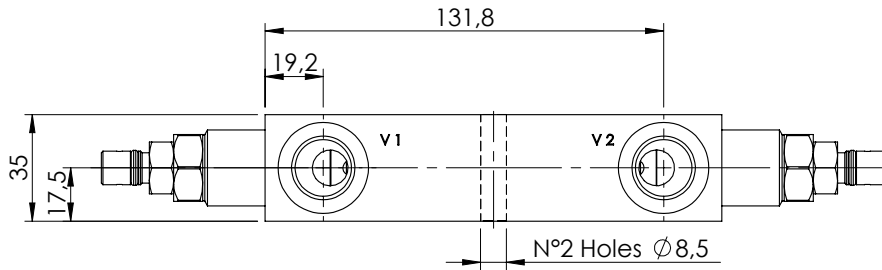
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000190	MBDP-060-ALNR-04-G38-N350	4,2:1	V1, V2: G3/8" C1, C2: G3/8"	350	100-350	166
MB000191	MBDP-060-ALNR-04-G38-N200	4,2:1	V1, V2: G3/8" C1, C2: G3/8"	200	60-210	75

OVERCENTRE VALVE

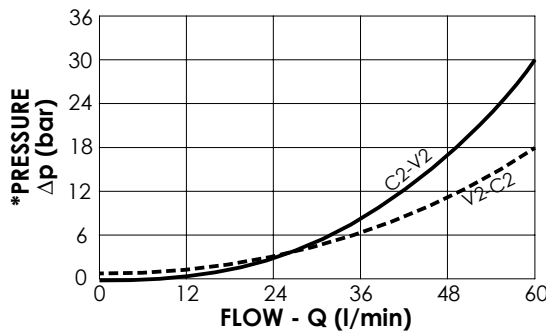
**MBDP-060-ALNR**

DOUBLE ACTING  
RELIEF COMPENSATED



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	2,62 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

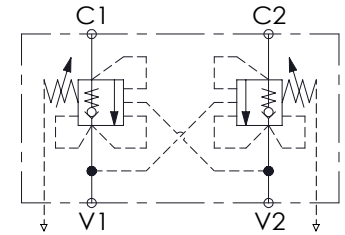
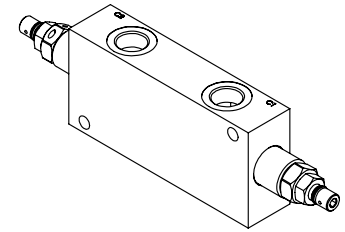
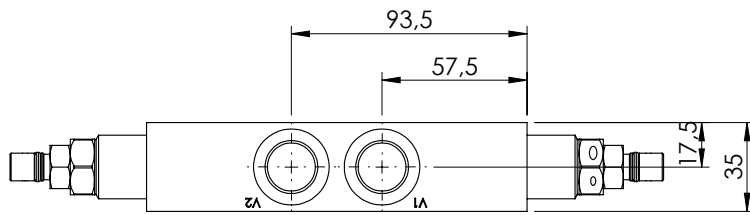
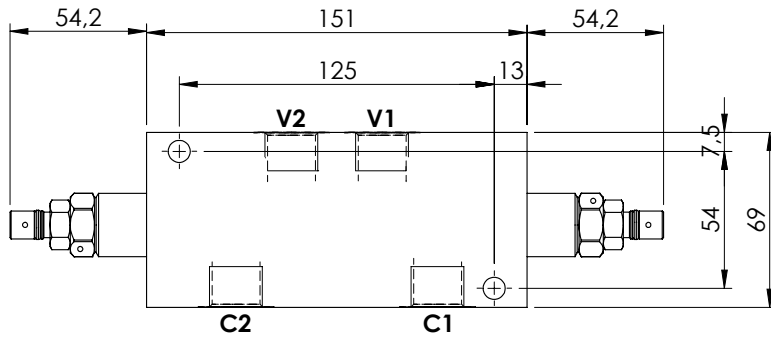
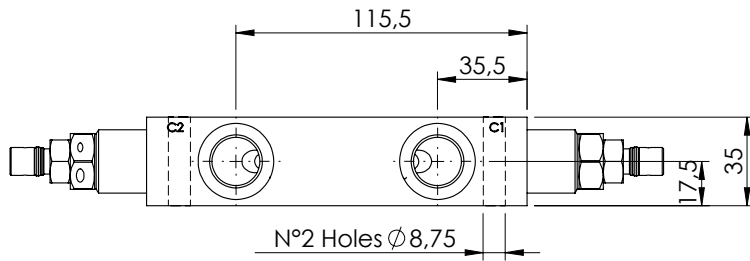
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000176	MBDP-060-ALNR-04-G12-N350	4,2:1	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	166
MB000189	MBDP-060-ALNR-04-G12-N200	4,2:1	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	75

OVERCENTRE VALVE

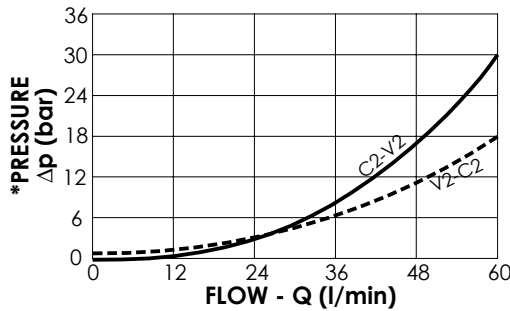
**MBDP-060-ZLDE**

**DOUBLE ACTING  
RELIEF COMPENSATED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Weight:	Aluminium 1.1 kg; Steel 2.7 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

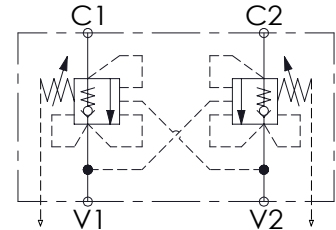
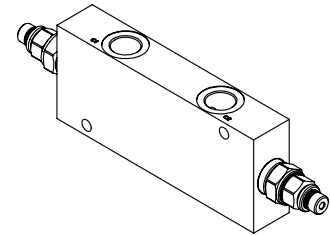
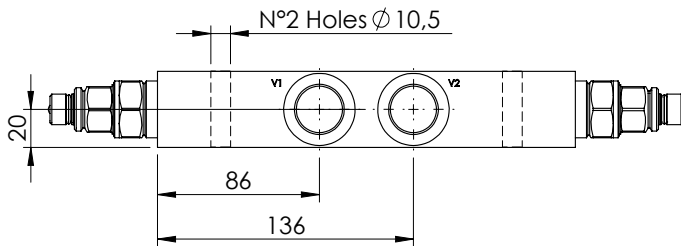
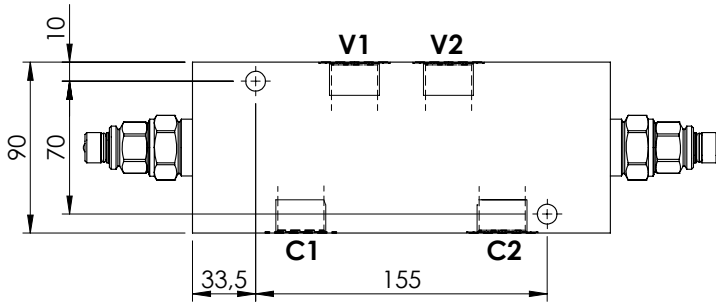
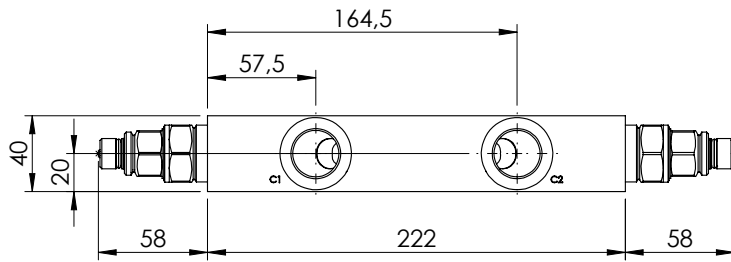
**ORDERING CODES**

Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000322	MBDP-060-ZLDE-04-G12-N350	4,2:1	Aluminium	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	166
MB000449	MBDP-060-ZLDE-04-G12-N200	4,2:1	Aluminium	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	75
MB000450	MBDP-060-ALDE-04-G12-N350	4,2:1	Steel	V1, V2: G1/2" C1, C2: G1/2"	350	100-350	166
MB000451	MBDP-060-ALDE-04-G12-N200	4,2:1	Steel	V1, V2: G1/2" C1, C2: G1/2"	200	60-210	75

OVERCENTRE VALVE

**MBDP-150-ZLDE**

DOUBLE ACTING  
RELIEF COMPENSATED

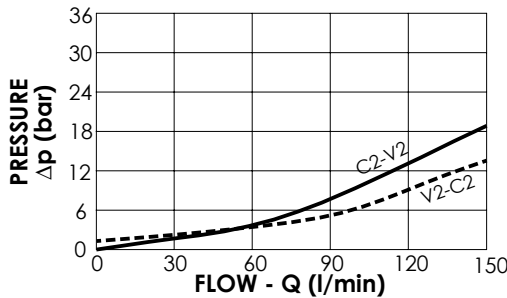
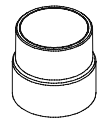


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Weight:	Aluminium 2,5 kg; Steel 5.84 kg

**SEALING CAP**

Ordering code:  
ST000012

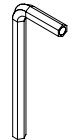


**NOTES**

Setting: at least 1.3 times the load induced pressure

Hex key for setting the valve:

Ordering code:  
PV000669



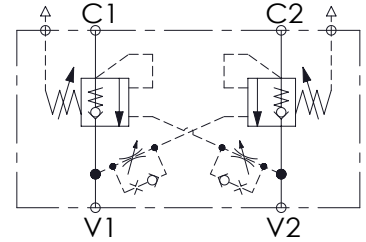
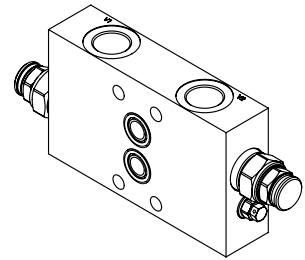
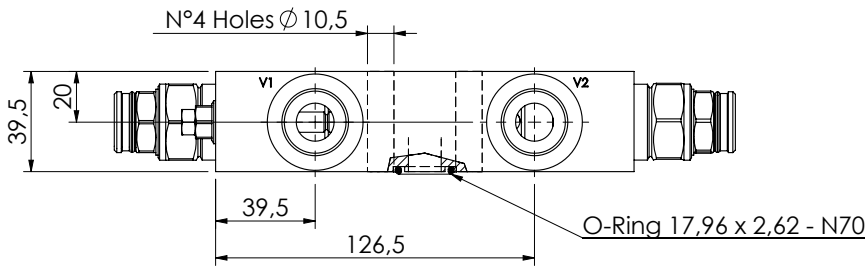
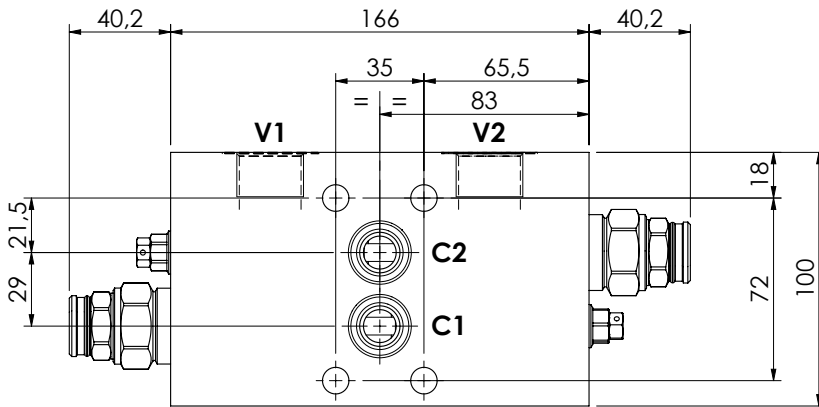
**ORDERING CODES**

Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000436	MBDP-150-ZLDE-04-G34-N350	4:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	350	100-350	104
MB000437	MBDP-150-ZLDE-04-G34-N200	4:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	56
MB000438	MBDP-150-ALDE-04-G34-N350	4:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	350	100-350	104
MB000439	MBDP-150-ALDE-04-G34-N200	4:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	56
MB000416	MBDP-150-ZLDE-08-G34-N350	8:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	350	200-350	82
MB000417	MBDP-150-ZLDE-08-G34-N200	8:1	Aluminium	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	47
MB000422	MBDP-150-ALDE-08-G34-N350	8:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	350	200-350	82
MB000423	MBDP-150-ALDE-08-G34-N200	8:1	Steel	V1, V2: G3/4" C1, C2: G3/4"	200	60-210	47

OVERCENTRE VALVE

**MBDT-150-ZBNV**

DOUBLE ACTING  
TWO FLANGED PORTS  
COMPENSATED



**SPECIFICATIONS**

Max. operating pressure: 350 bar

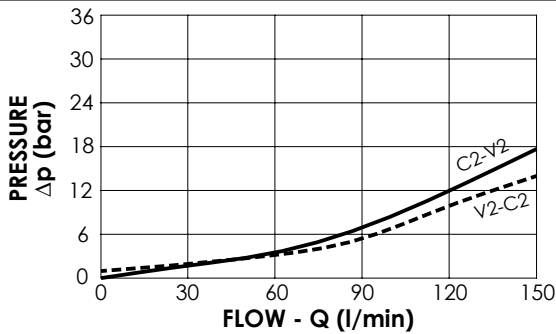
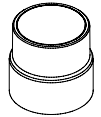
Rated flow: 150 l/min

Weight: Aluminium 2,14 kg; Steel 4,85 kg

**SEALING CAP**

Ordering code:

ST000012



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

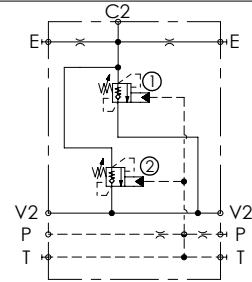
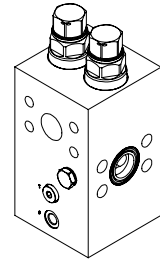
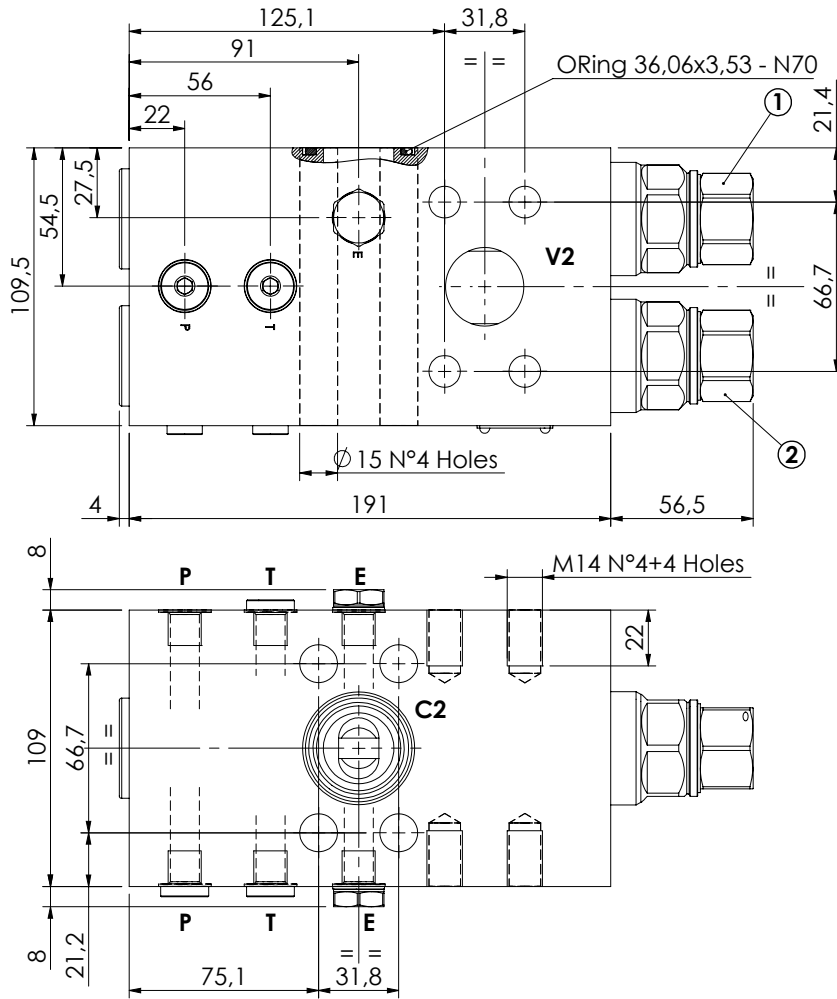
Quick code	Description	Pilot ratio	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000429	MBDT-150-ZBNV-04-G34-N350	4:1	Aluminium	V1,V2: G 3/4" C1,C2: Ø 13	350	100-350	104
MB000641	MBDT-150-ZBNV-04-G12-N350	4:1	Aluminium	V1,V2: G 1/2" C1,C2: Ø 13	350	100-350	104
MB000646	MBDT-150-ABNV-04-G34-N350	4:1	Steel	V1,V2: G 3/4" C1,C2: Ø 13	350	100-350	104
MB000647	MBDT-150-ABNV-04-G12-N350	4:1	Steel	V1,V2: G 1/2" C1,C2: Ø 13	350	100-350	104



OVERCENTRE VALVE

**MBDN-500-ABNR**

DOUBLE ACTING



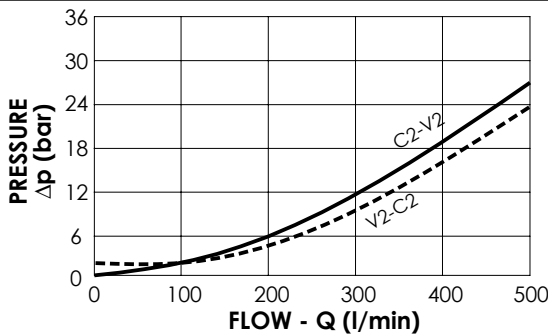
**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	500 l/min
Manifold:	Steel
Weight:	16,32 kg

**NOTES**

When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

T line plugs must be kept closed

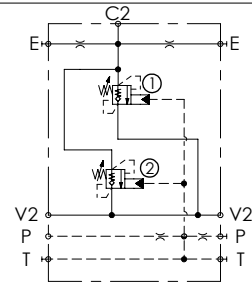
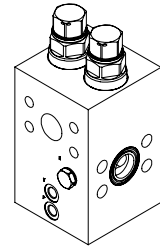
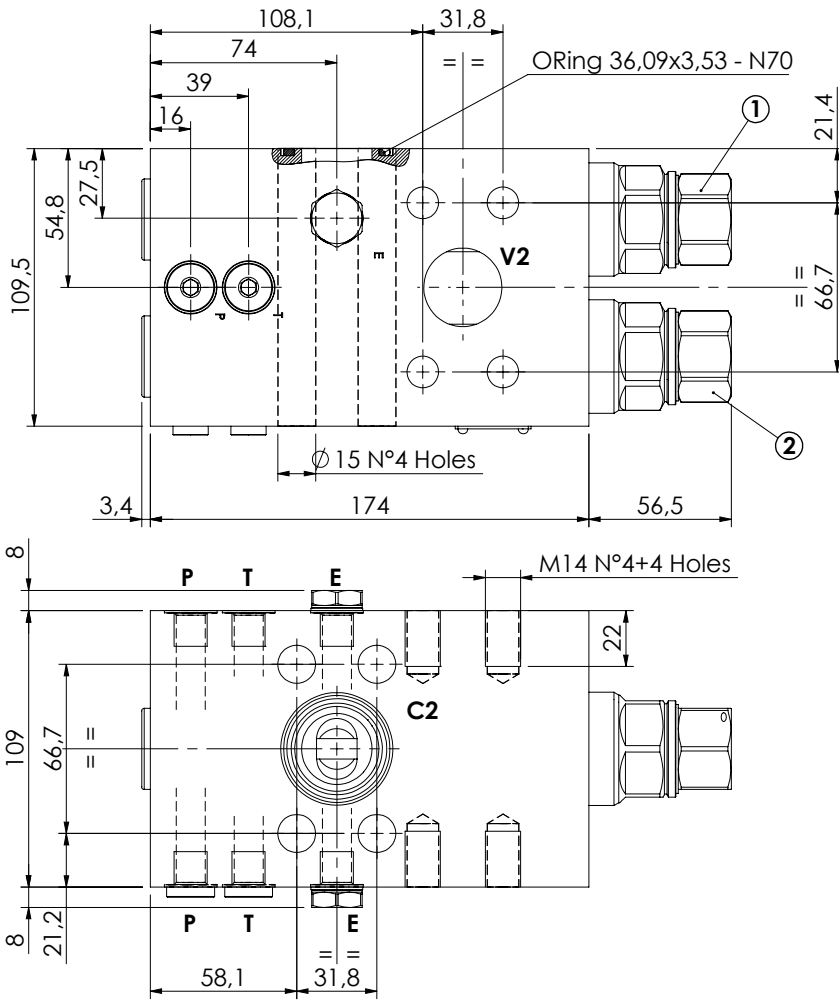


**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000979	MBDN-500-ABNR-06-S11-N420	6:1	V2,C2:1 1/4" SAE 6000 P,T,E: G 1/4"	420	250-420	104

OVERCENTRE VALVE

**MBDN-500-ABNR** DOUBLE ACTING



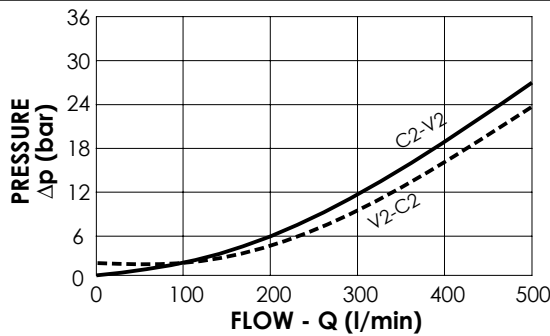
**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	500 l/min
Manifold:	Steel
Weight:	14,78 kg

**NOTES**

When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

T line plugs must be kept closed



**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000978	MBDN-500-ABNR-13-S11-N420	13:1	V2,C2:1 1/4" SAE 6000 P,T,E: G 1/4"	350	250-420	104

## SECTION 7



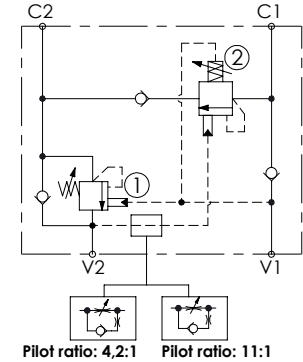
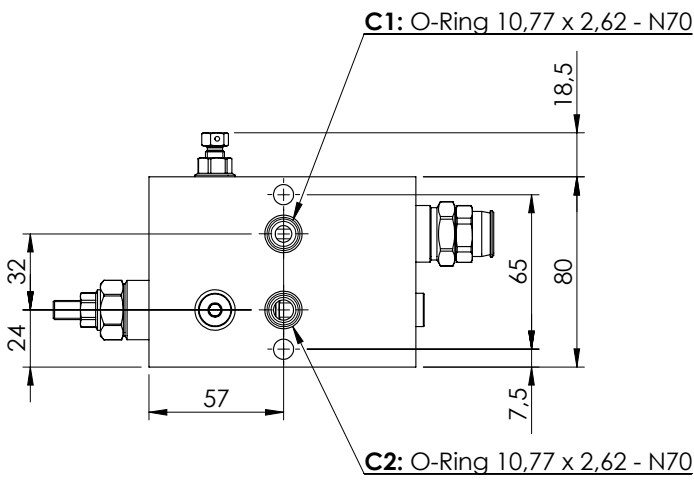
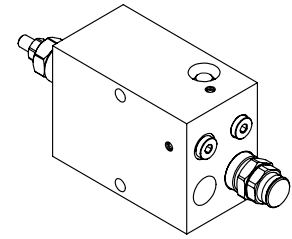
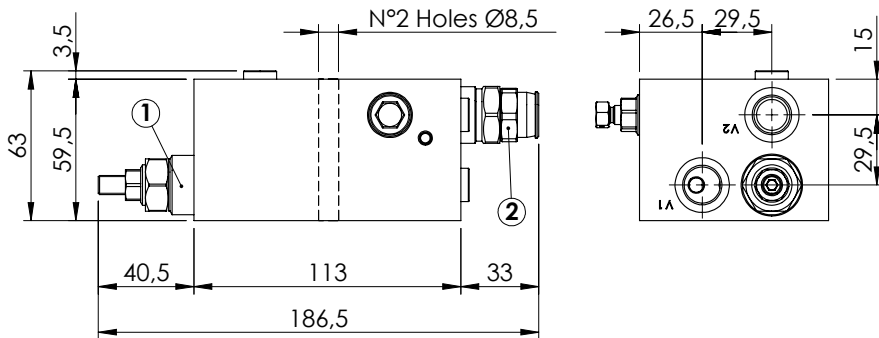
# REGENERATIVE VALVES

Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	MRSN-060-ZBNP	Single overcentre with regenerative	60	350	Flanged	G 3/8"	7.01.010
	MRLN-060-ZLNP	Single overcentre with regenerative	60	350	In line	G 1/2"	7.02.020
	MRSN-150-ZLNV	Single overcentre with regenerative	100	350	In line	G 1/2"	7.03.030
	MRDN-150-ZLNV	Double overcentre with regenerative	150	350	In line	G 3/4"	7.04.040
	MRSN-300-ABNV	Single overcentre with regenerative	300	420	Flanged	3/4" SAE 6000	7.05.050
	MRSN-300-ABNE	Single overcentre with double regenerative	500	420	Flanged	1"-1/4 SAE 6000	7.06.060

REGENERATIVE VALVE

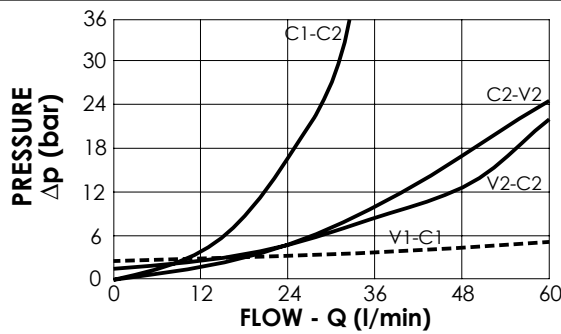
**MRSN-060-ZBNV**

REGENERATIVE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Aluminium
Weight:	1,6 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure  
 Designed for aerial platforms

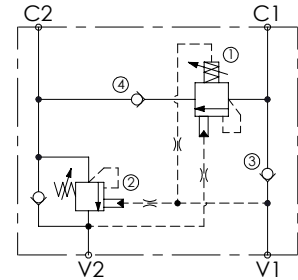
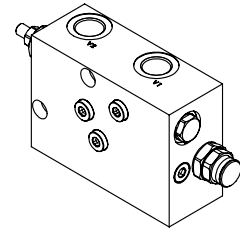
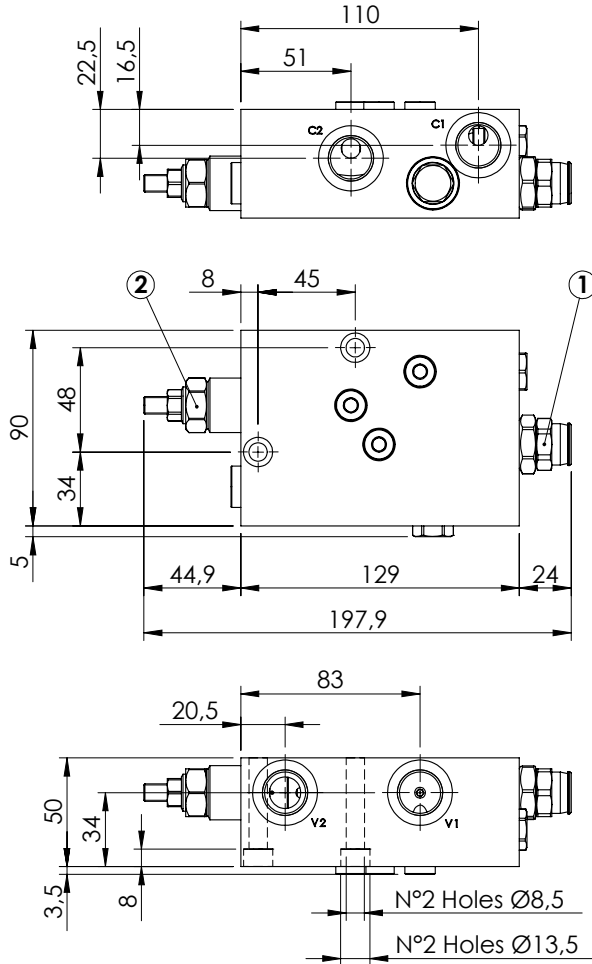
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000035	MRSN-060-ZBNV-11-G38-N350	11:1	V1,V2: G3/8" C1,C2: Ø 7	350	100-350	69
MB000085	MRSN-060-ZBNV-04-G38-N350	4,2:1	V1,V2: G3/8" C1,C2: Ø 7	350	100-350	139

REGENERATIVE VALVE

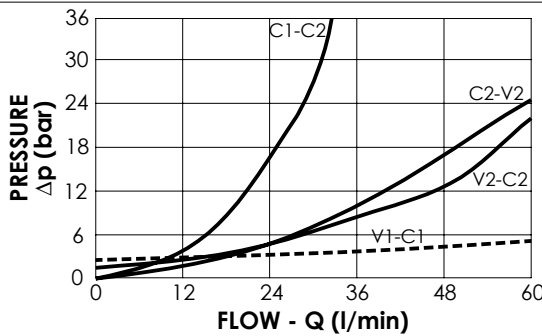
**MRSN-060-ZLNP**

REGENERATIVE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Aluminium
Weight:	1,71 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

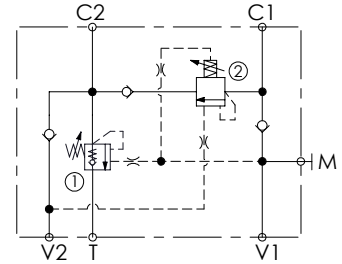
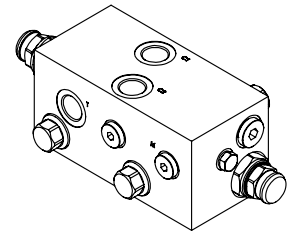
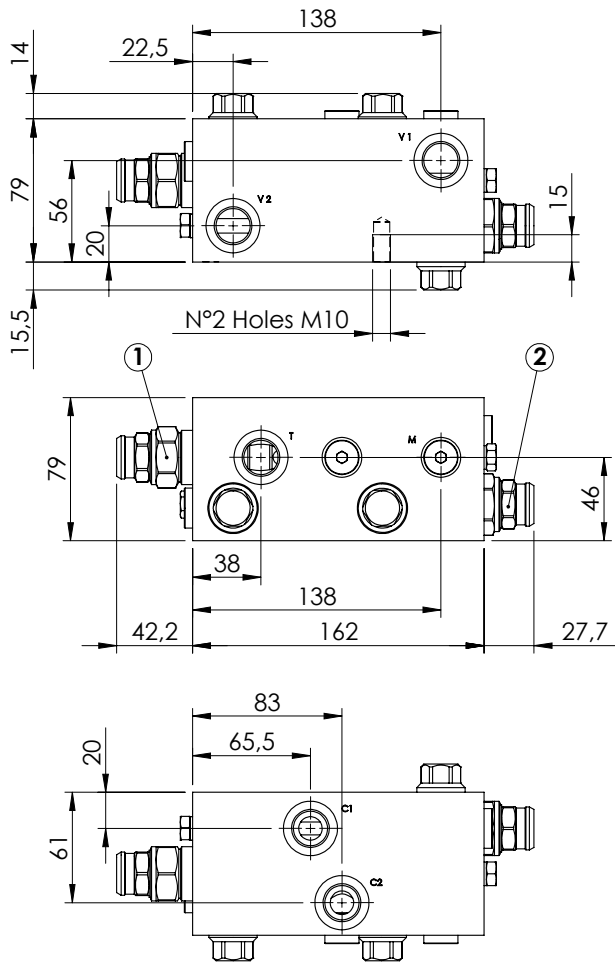
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000150	MRSN-060-ZLNP-04-G12-N350	4,2:1	V1,V2,C1,C2 : G 1/2"	170	60-210	62

REGENERATIVE VALVE

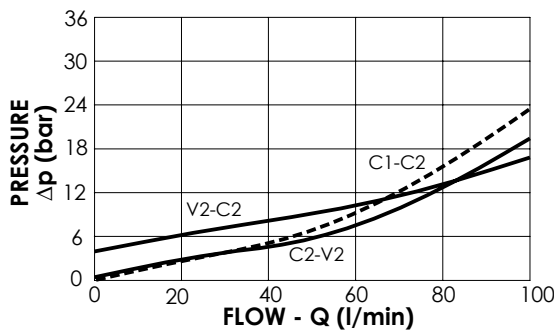
**MRSN-150-ZLNV**

REGENERATIVE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Aluminium
Weight:	3,18 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure  
 Designed for truck mounted cranes

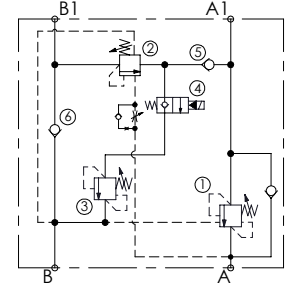
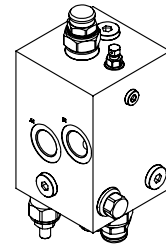
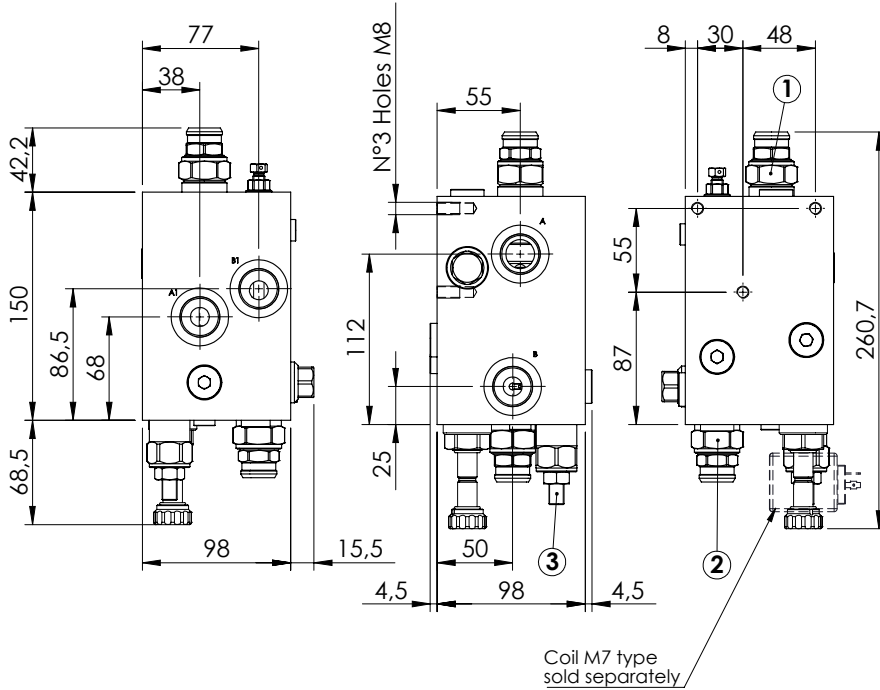
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000113	MRSN-150-ZLNV-04-G12-N350	4:1	V1,V2,C1,C2,T : G1/2" M: G1/4"	350	100-350	104

REGENERATIVE VALVE

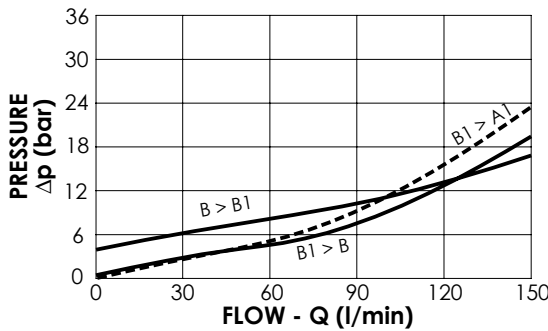
**MRDN-150-ZLNV**

REGENERATIVE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Aluminium
Weight:	4,64 kg
Coil:	M7 Type (sold separately)



**NOTES**

Setting: at least 1.3 times the load induced pressure  
Designed for truck mounted cranes

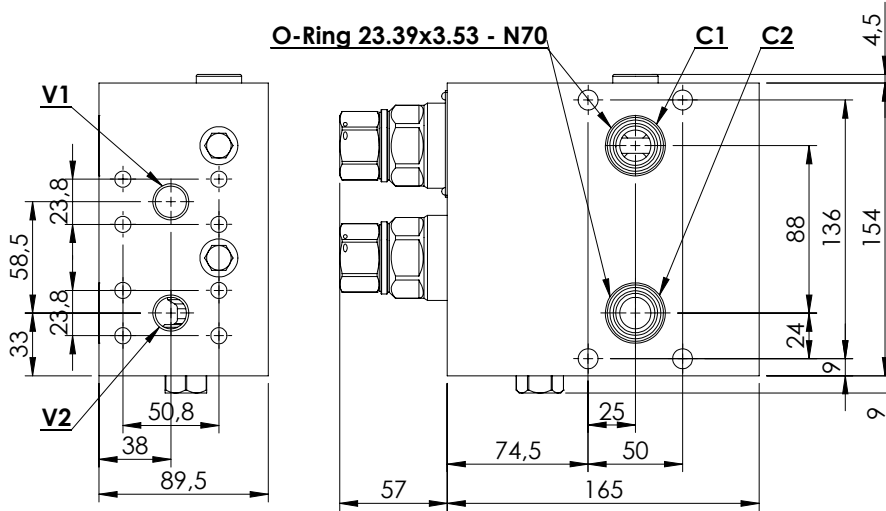
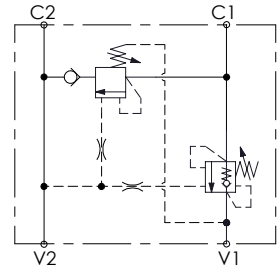
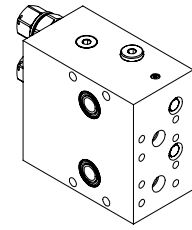
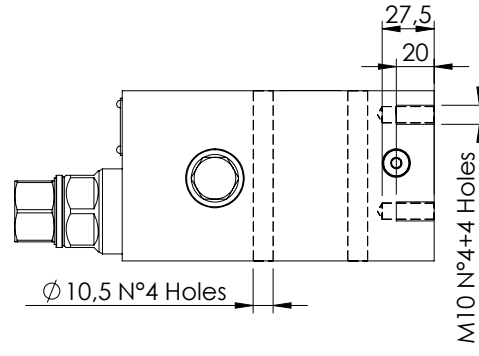
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000476	MRDN-150-ZLNV-04-G34-N350	4:1	A,A1,B,B1 : G3/4"	① 350 ② 350 ③ 350	① 100-350 ② 100-350 ③ 140-350	① 103 ② 103 ③ 114

REGENERATIVE VALVE

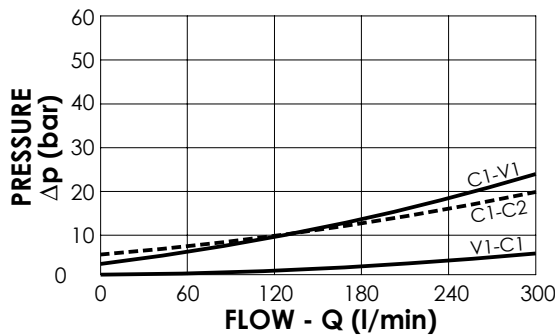
**MRSN-300-ABNV**

REGENERATIVE



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	300 l/min
Manifold:	Steel
Weight:	16,86 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

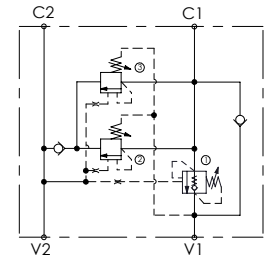
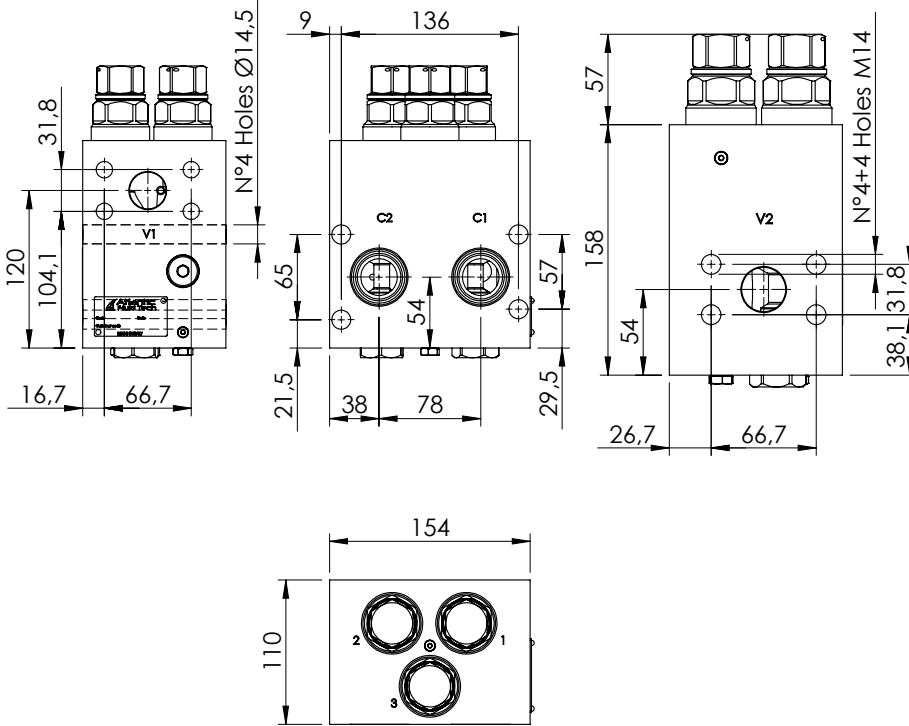
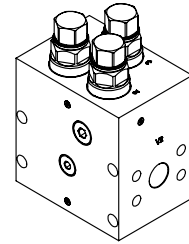
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000816	MRSN-300-ABNV-06-S34-N420	6:1	V1,V2: 3/4" SAE 6000 C1,C2: Ø16,5	250	120-360	122



REGENERATIVE VALVE

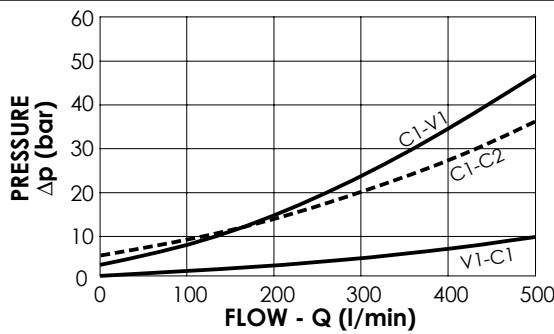
**MRSN-300-ABNE**

REGENERATIVE



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	300 l/min
Manifold:	Steel
Weight:	18,77 kg



**NOTES**

Designed for crusher scissors  
Valve for heavy duty working cycles with viton seals and reinforced plugs

**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000132	MRSN-300-ABNE-06-S11-V420	6:1	V1,V2: 1-1/4 SAE 6000 C1,C2: Ø 28	250	120-360	104



**SECTION 8**

**HYDRAULIC MOTOR, ACTUATOR,  
AND WINCH VALVES**



Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	MADN-030-TLNR	Double antishock	30	350	In line	G 3/8"	8.01.010
	MADN-030-TLNR	Double antishock	30	350	In line	G 1/2"	8.01.020
	MADN-030-TBNR	Double antishock, for SD OMP-OMR	30	210	Flanged	G 1/2"	8.01.030
	MADN-080-TLNR	Double antishock	80	350	In line	G 1/2"	8.01.040
	MADN-040-LLNR	Dual cross over and anticavitation relief	40	210	In line	G 1/2"	8.02.050
	MADN-080-LLNR	Dual cross over and anticavitation relief	80	250	In line	G 3/4"	8.03.060
	MBDN-055-GLNR	Counterbalance, dual acting	55	350	In line	G 3/8"	8.04.070
	MBDN-055-GLSF	Counterbalance, dual acting, with brake release	55	350	In line	G 3/8"	8.05.080
	MFLN-150-RFSR	Flushing	150	350	Flanged	Ø13	8.06.090
	MFLN-300-RFSR	Flushing	300	350	Flanged	Ø19	8.06.100
	MFLN-500-RFSR	Flushing	500	350	Flanged	Ø25	8.06.110
	MBSN-060-ZMSF	Single acting, brake release, for SD OMP motor	60	350	Flanged	G 1/2"	8.07.120
	MBDN-060-ALSF	Dual acting, brake release	60	350	In line	G 3/8"	8.08.130
	MBDN-060-ALSF	Dual acting, brake release	60	350	In line	G 1/2"	8.08.140
	MBDN-060-ZMSF	Dual acting, brake release	60	250	Flanged	Ø9	8.08.150
	MBDN-060-LMNR	Dual acting, brake release	60	210	Flanged	1/2" SAE 6000	8.08.160
	MBDN-060-LMSF	Dual acting, brake release, for SD OMS motor	60	250	Flanged	G 1/2"	8.08.170
	MBDN-060-LMSF	Dual acting, brake release, for SD OMP motor	60	250	Flanged	G 1/2"	8.08.180
	MBDN-060-AMSF	Dual acting, brake release, for SAM BR motor	60	250	Flanged	G 1/2"	8.08.190
	MBDN-060-AMSF	Dual acting, brake release, for SAM HR motor	60	250	Flanged	G 1/2"	8.08.200
		MBDN-060-AMSR	Dual acting, brake release, for BR A2FE 28-32	60	420	Flanged	1/2" SAE 6000
MBDN-100-AMSR		Dual acting, brake release, for BR A2FE 28-32	100	420	Flanged	1/2" SAE 6000	8.09.220
MBDN-150-AMSR		Dual acting, brake release, for BR A2FE 45-56-63	150	420	Flanged	3/4" SAE 6000	8.09.230
MBDN-150-AMSR		Dual acting, brake release, for BR A2FE 80-90	180	420	Flanged	1" SAE 6000	8.09.240
MBDN-300-AMSR		Dual acting, brake release, for BR A2FE 80-90	300	420	Flanged	1" SAE 6000	8.09.250
MBDN-320-AMSR		Dual acting, brake release, for BR A2FE 107-125-160-180	320	420	Flanged	1-1/4" SAE 6000	8.09.260

**SECTION 8**

**HYDRAULIC MOTOR, ACTUATOR,  
AND WINCH VALVES**

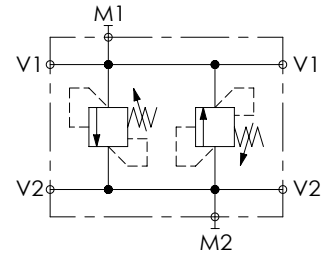
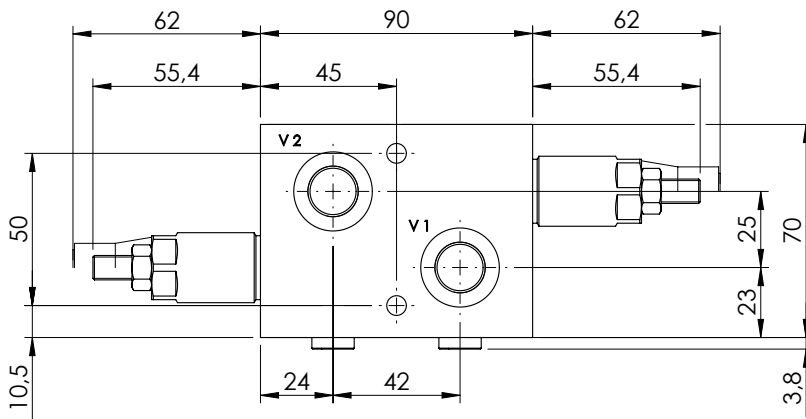
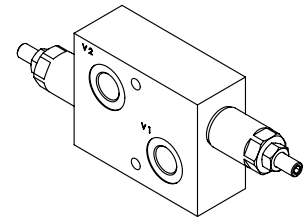
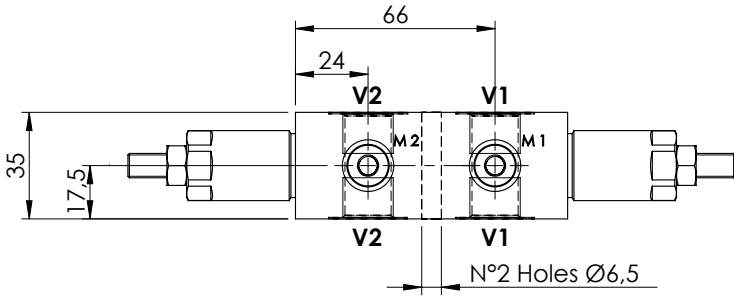


Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	MBSN-100-LMSF	Single acting for winches, pilot assisted, for SD OMS motor	100	350	Flanged	G 1/2"	8.10.270
	MBSN-250-AMSF	Single acting for winches, brake release	250	500	Flanged	3/4" SAE 6000	8.11.280
	MBSN-300-AMSF	Single acting for winches, brake release	300	500	Flanged	1" SAE 6000	8.11.290
	MBSN-300-AMSF	Single acting for winches, brake release	300	500	Flanged	1-1/4" SAE 6000	8.11.300
	MBDN-500-AMSF	Double acting for winches, brake release	500	500	Flanged	1-1/4" SAE 6000	8.12.310

VALVES FOR MOTORS OR HYDRAULIC ACTUATORS

**MADN-030-TLNR**

DOUBLE ANTISHOCK

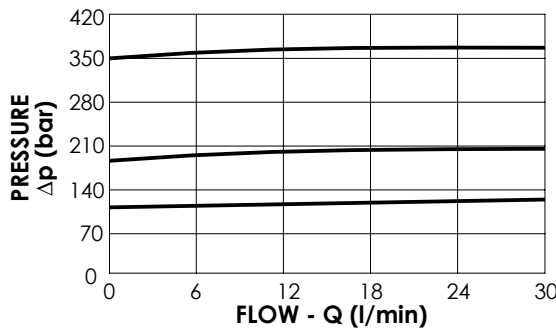
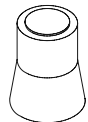


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,8 kg

**SEALING CAP**

Ordering code:  
**AT000020**



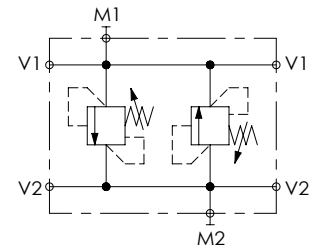
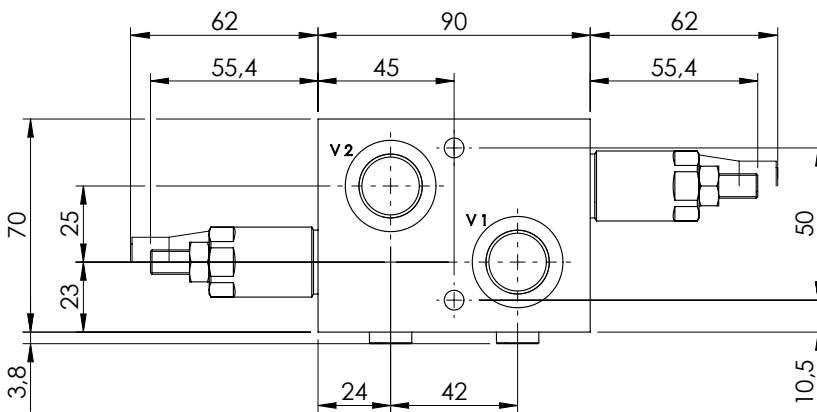
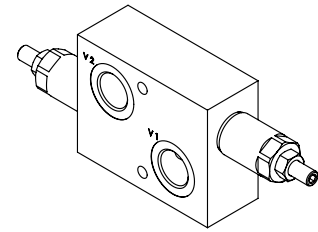
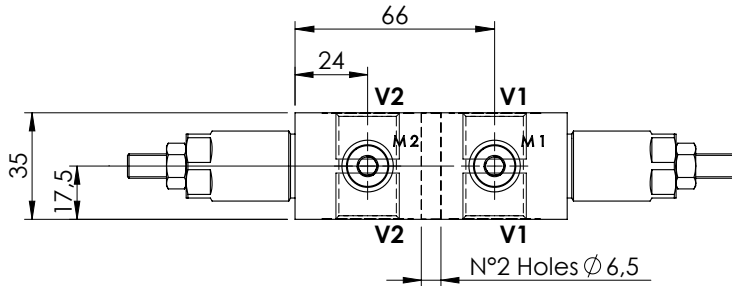
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MA000006	MADN-030-TLNR-HN-G38-N350	V1,V2 : G 3/8" M1,M2 : G1/8"	350	100-350	91
MA000005	MADN-030-TLNR-HN-G38-N200	V1,V2 : G 3/8" M1,M2 : G1/8"	200	50-210	42
MA000004	MADN-030-TLNR-HN-G38-N100	V1,V2 : G 3/8" M1,M2 : G1/8"	100	30-100	20

VALVES FOR MOTORS OR HYDRAULIC ACTUATORS

**MADN-030-TLNR**

DOUBLE ANTISHOCK

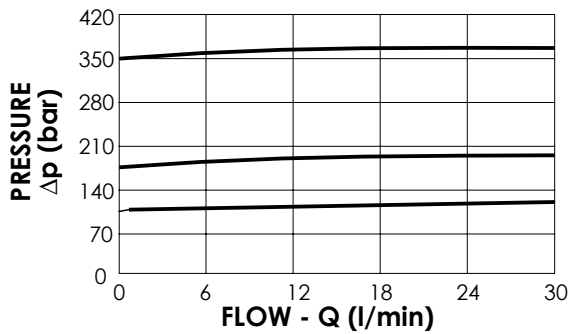
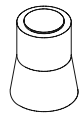


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,8 kg

**SEALING CAP**

Ordering code:  
AT000020



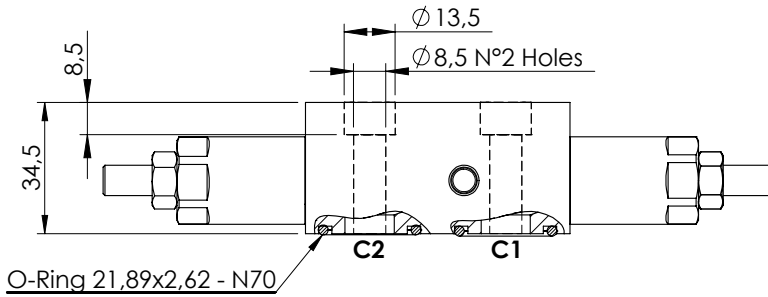
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MA000010	MADN-030-TLNR-HN-G12-N350	V1,V2 : G1/2" M1,M2 : G1/8"	350	100-350	91
MA000007	MADN-030-TLNR-HN-G12-N200	V1,V2 : G1/2" M1,M2 : G1/8"	200	50-210	42
MA000009	MADN-030-TLNR-HN-G12-N100	V1,V2 : G1/2" M1,M2 : G1/8"	100	30-100	20
MA000032	MADN-030-TLNR-HN-G12-N050	V1,V2 : G1/2" M1,M2 : G1/8"	50	10- 50	10

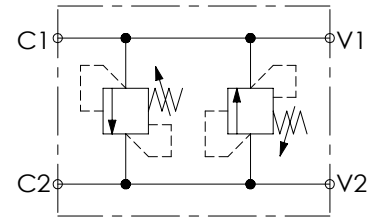
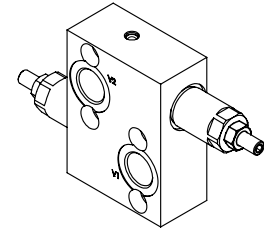
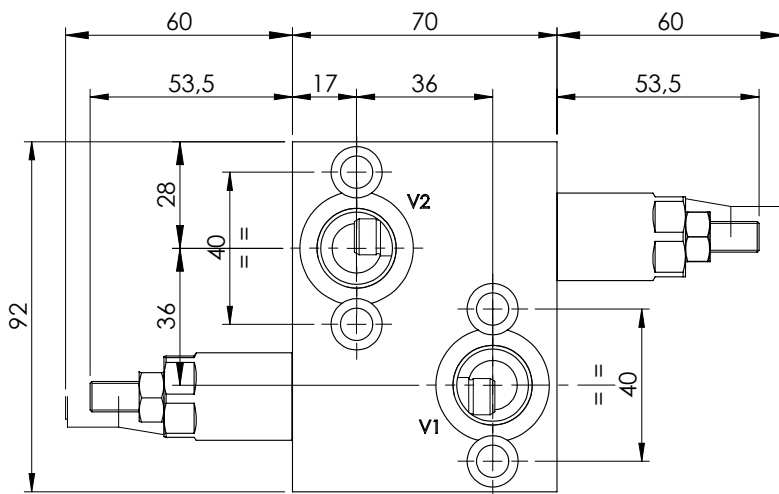
VALVES FOR MOTORS OR HYDRAULIC ACTUATORS

**MADN-030-TBNR**

DOUBLE ANTISHOCK



O-Ring 21,89x2,62 - N70

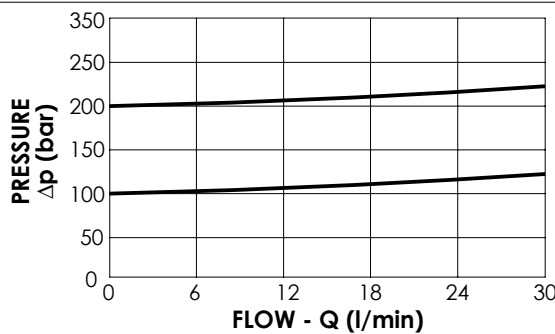
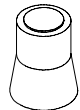


**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	30 l/min
Manifold:	Aluminium
Weight:	0,76 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure  
Designed for DANFOSS motors OMP-OMR series.

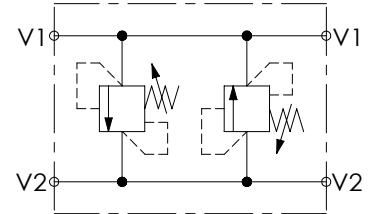
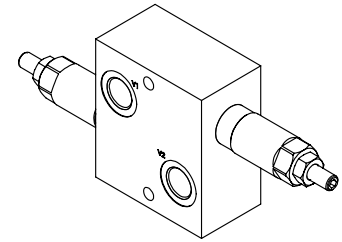
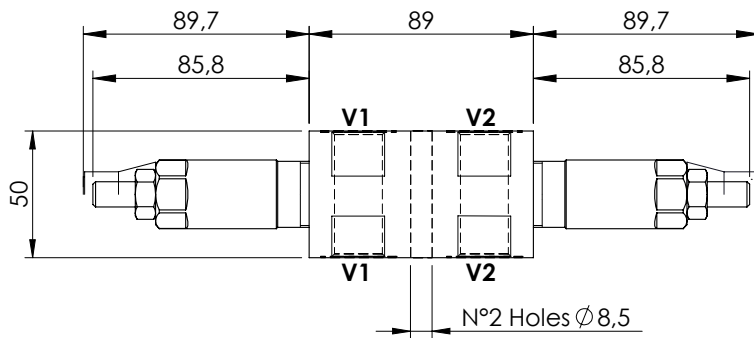
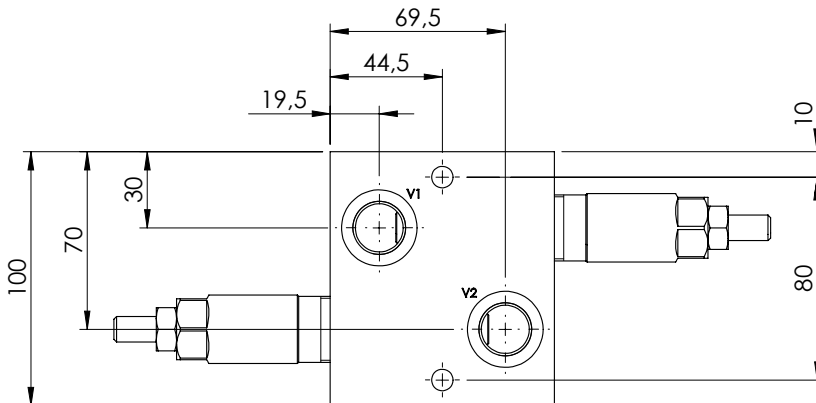
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MA000012	MADN-030-TBNR-HN-G12-N210	V1,V2: G 1/2" C1,C2: $\varnothing 13$	200	50-210	42
MA000022	MADN-030-TBNR-HN-G12-N100	V1,V2: G 1/2" C1,C2: $\varnothing 13$	100	30-100	20

VALVES FOR MOTORS OR HYDRAULIC ACTUATORS

**MADN-080-TLNR**

DOUBLE ANTISHOCK

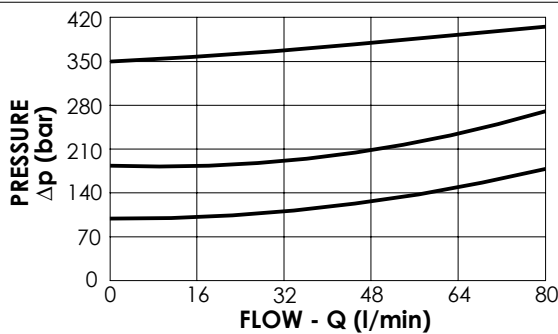
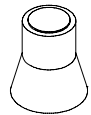


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	80 l/min
Manifold:	Aluminium
Weight:	1,62 kg

**SEALING CAP**

Ordering code:  
AT000021



**ORDERING CODES**

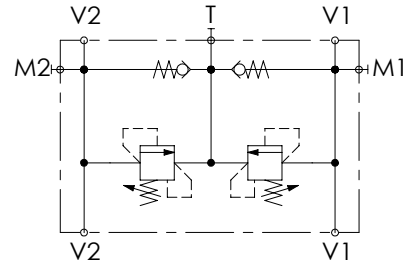
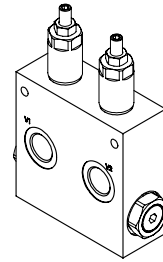
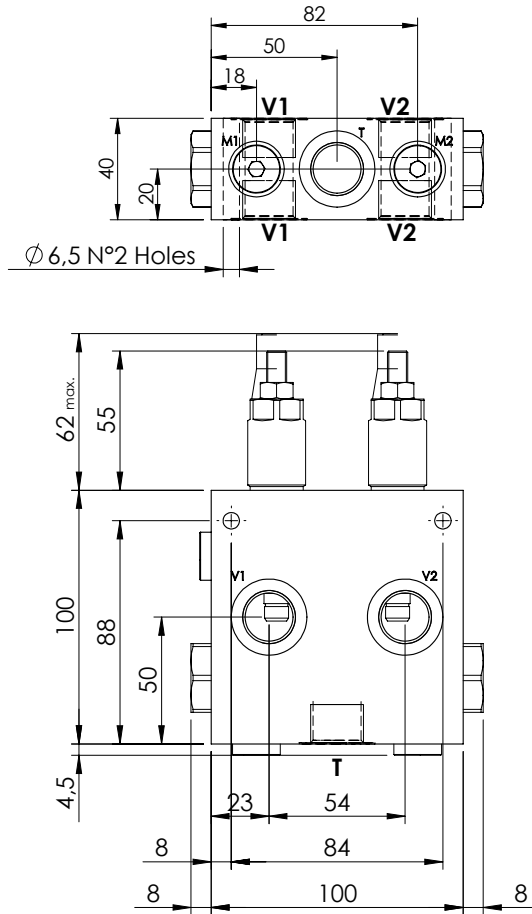
Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MA000026	MADN-080-TLNR-HN-G12-N350	V1,V2 : G 1/2"	350	100-350	42
MA000025	MADN-080-TLNR-HN-G12-N200	V1,V2 : G 1/2"	200	60-210	24
MA000021	MADN-080-TLNR-HN-G12-N100	V1,V2 : G 1/2"	100	25-100	13



VALVES FOR MOTORS OR HYDRAULIC ACTUATORS

**MADN-040-LLNR**

DUAL CROSS OVER  
ANTICAVITATION RELIEF

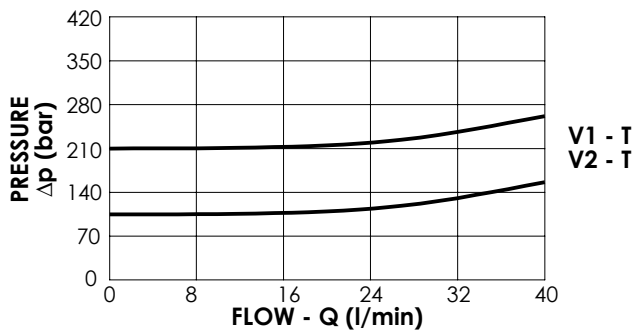
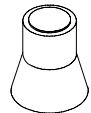


**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	1,32 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

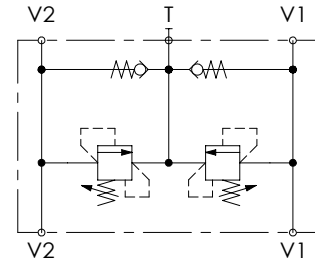
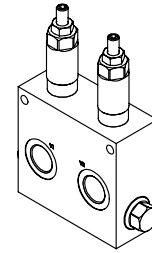
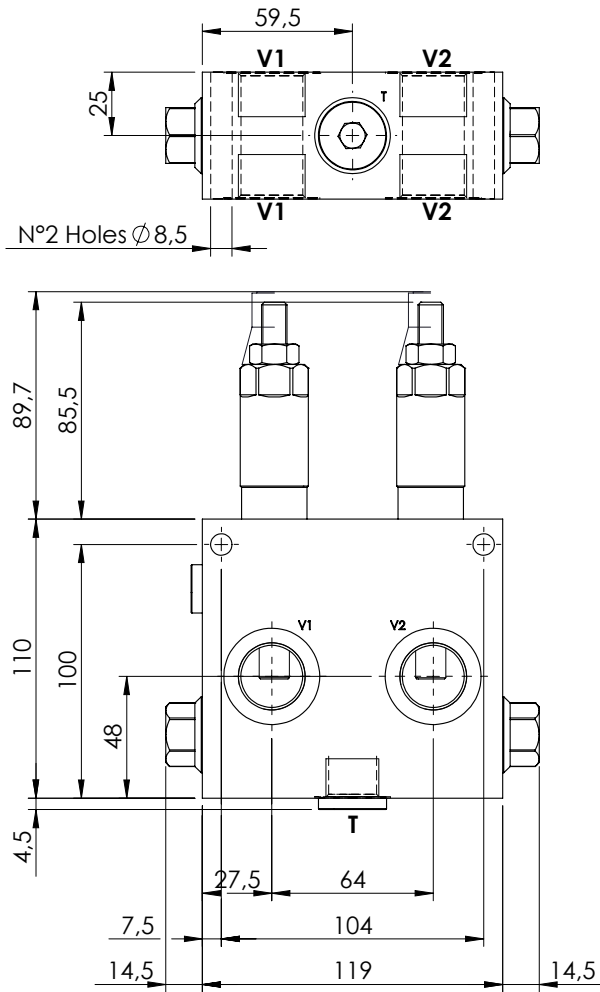
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MA000054	MADN-040-LLNR-HN-G12-N200	V1,V2,T: G1/2" M1,M2: G1/4"	200	50-210	42
MA000055	MADN-040-LLNR-HN-G12-N100	V1,V2,T: G1/2" M1,M2: G1/4"	100	30-100	20

VALVES FOR MOTORS OR HYDRAULIC ACTUATORS

**MADN-080-LLNR**

DUAL CROSS OVER  
ANTICAVITATION RELIEF

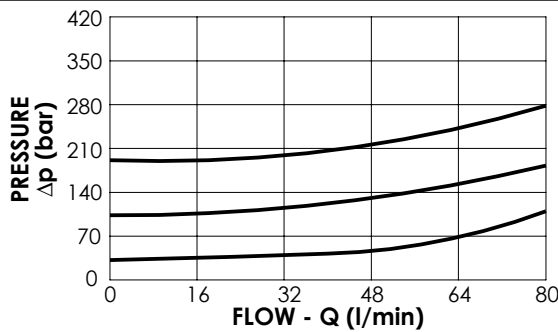
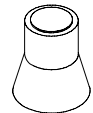


**SPECIFICATIONS**

Max. operating pressure:	250 bar
Rated flow:	80 l/min
Manifold:	Aluminium
Weight:	2,28 kg

**SEALING CAP**

Ordering code:  
AT000021



V1 - T  
V2 - T

**NOTES**

Setting: at least 1.3 times the load induced pressure

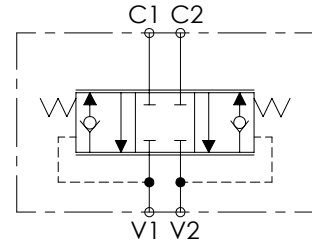
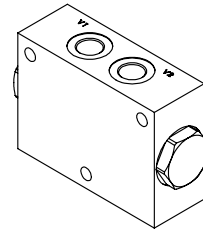
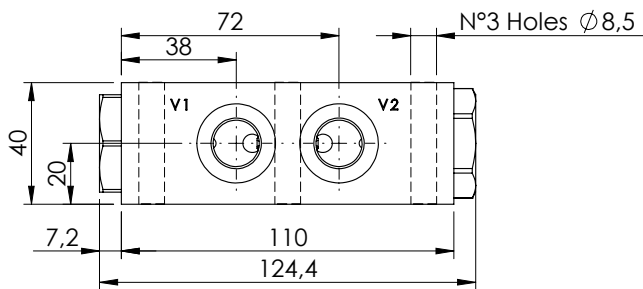
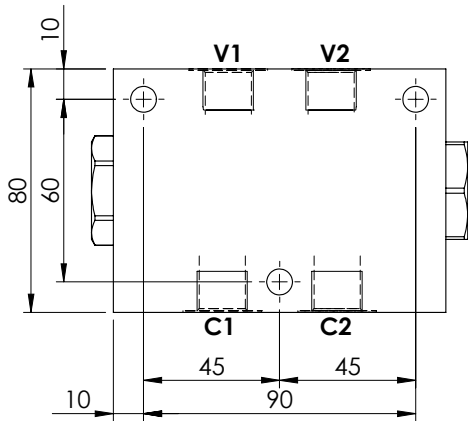
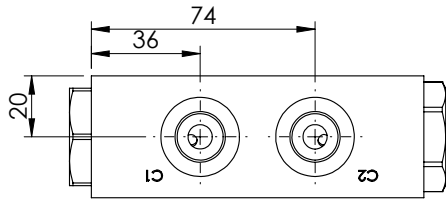
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MA000018	MADN-080-LLNR-HN-G34-N200	V1,V2: G3/4" T: G1/2"	200	60-210	24
MA000023	MADN-080-LLNR-HN-G34-N100	V1,V2: G3/4" T: G1/2"	100	25-100	13
MA000024	MADN-080-LLNR-HN-G34-N050	V1,V2: G3/4" T: G1/2"	50	5-50	9

VALVES FOR MOTORS

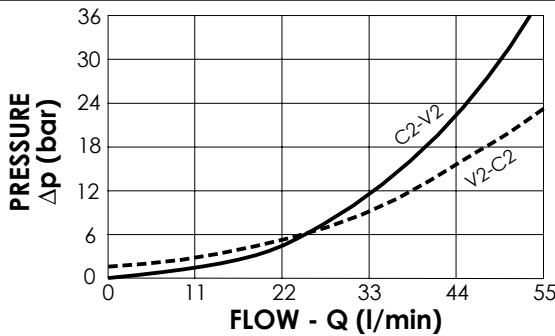
**MBDN-055-GLNR**

COUNTERBALANCE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	55 l/min
Manifold:	Cast iron
Weight:	2,53 kg



**NOTES**

Designed for traction control of small undercarriages

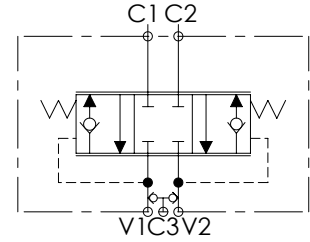
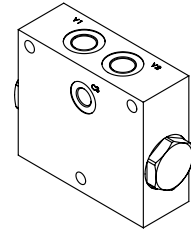
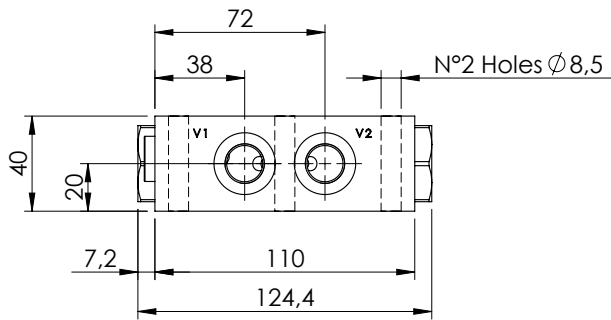
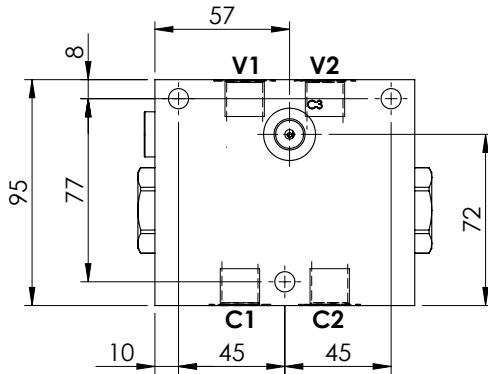
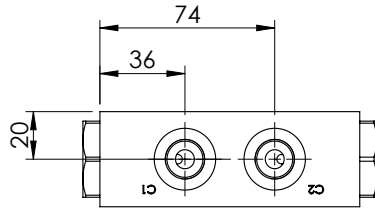
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000112	MBDN-055-GLNR-01-G38-N006	V1,V2,C1,C2 : G3/8"	6	Fixed setting	NO

VALVES FOR MOTORS

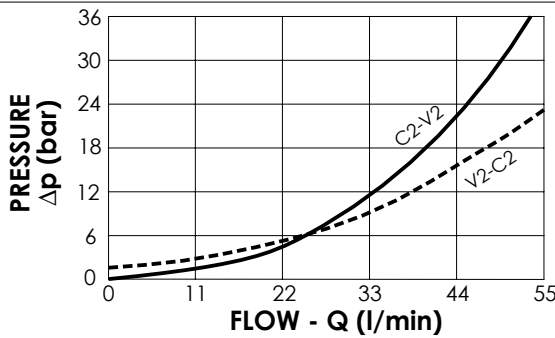
**MBDN-055-GLSF**

**COUNTERBALANCE WITH BRAKE RELEASE**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	55 l/min
Manifold:	Cast iron
Weight:	3 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure  
 Designed for traction control of small undercarriages

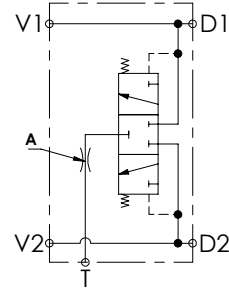
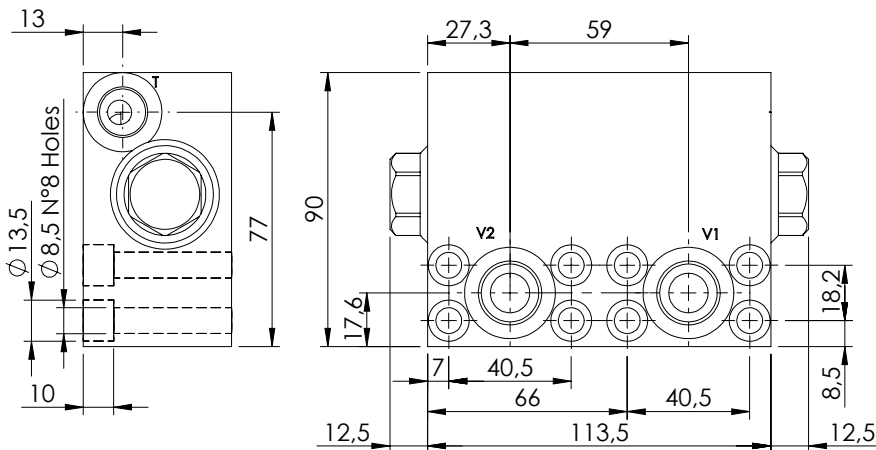
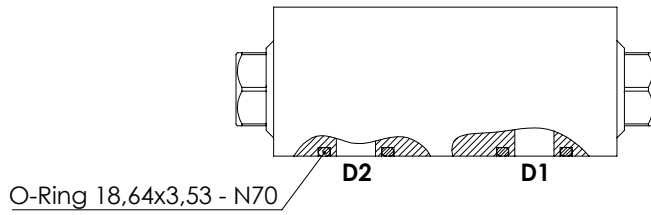
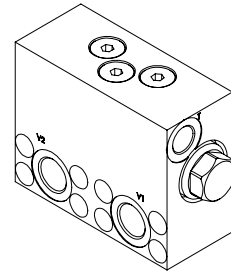
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000232	MBDN-055-GLSF-01-G38-N006	V1,V2,C1,C2 : G3/8" C3 : G1/4"	6	Fixed setting	NO

VALVES FOR MOTORS

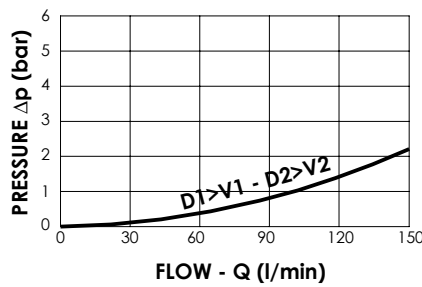
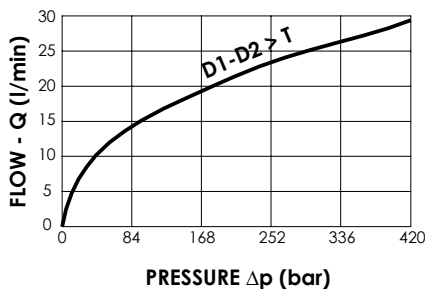
**MFLN-150-RFSR**

FLUSHING VALVE  
FLANGEABLE TYPE



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	3,38 kg



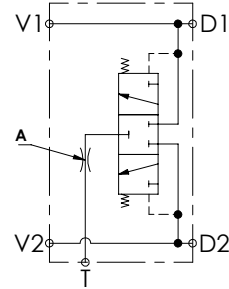
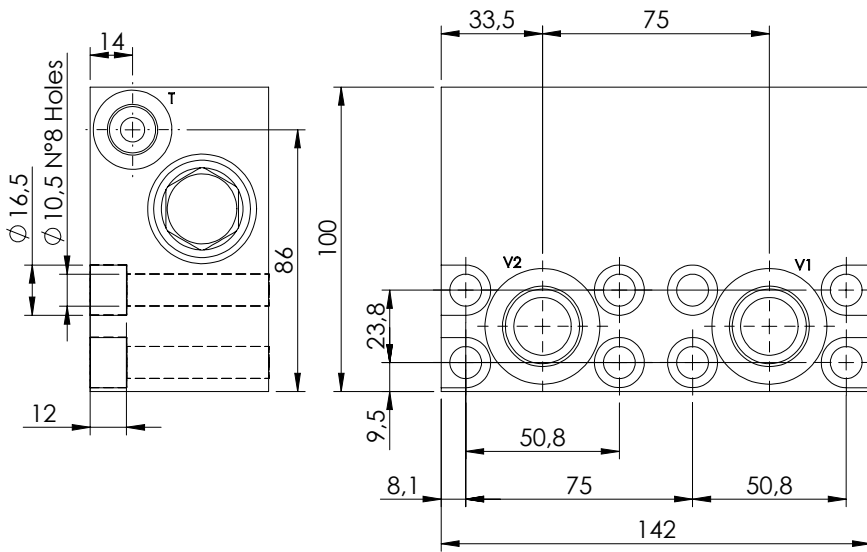
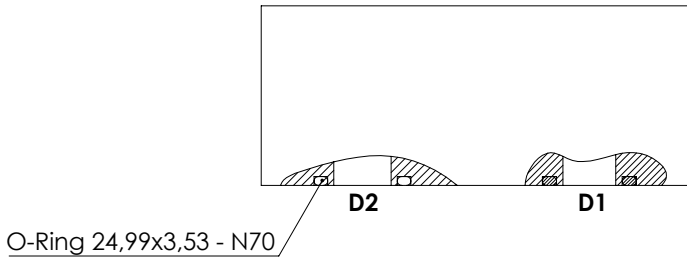
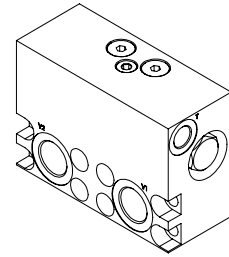
**ORDERING CODES**

Quick code	Description	Main ports size	Spool setting (bar)	A Orifice $\varnothing$	
MF000111	MFLN-150-RFSR-08-S12-N420	V1,V2:G1/2" D1,D2:1/2"SAE 6000 T: G3/8"	6	1,7	

VALVES FOR MOTORS

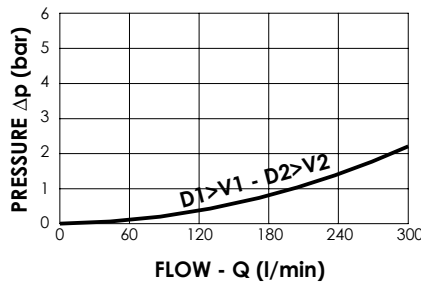
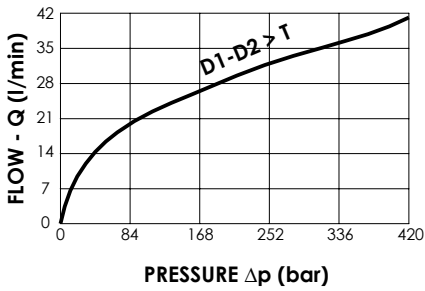
**MFLN-300-RFSR**

FLUSHING VALVE  
FLANGEABLE TYPE



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	300 l/min
Manifold:	Steel
Weight:	3,38 kg



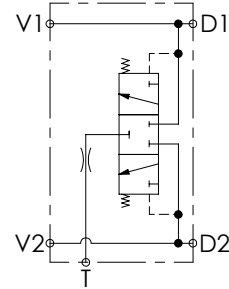
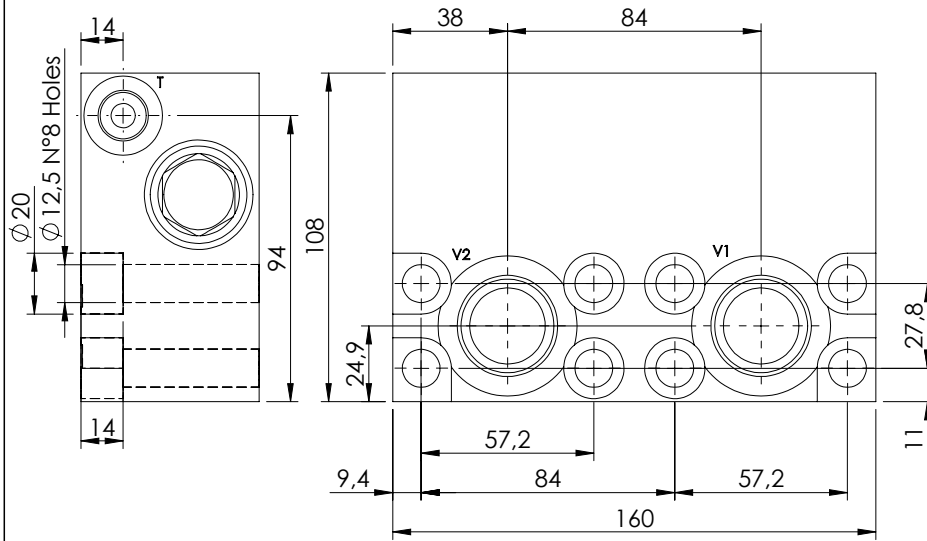
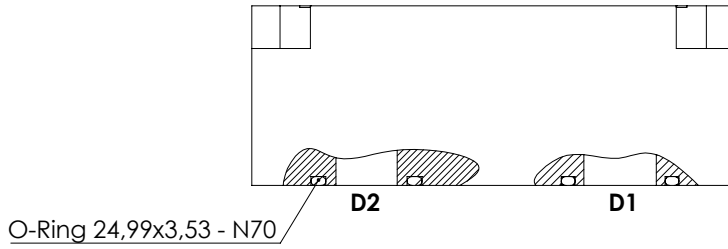
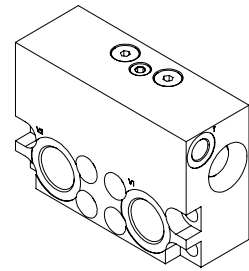
**ORDERING CODES**

Quick code	Description	Main ports size	Spool setting (bar)	A Orifice Ø	
MF000110	MFLN-300-RFSR-09-S34-N420	V1,V2:G3/4" D1,D2:3/4"SAE 6000 T: G3/8"	6	1,9	

VALVES FOR MOTORS

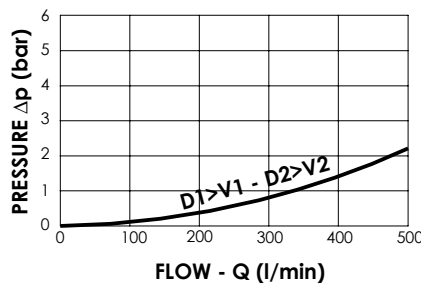
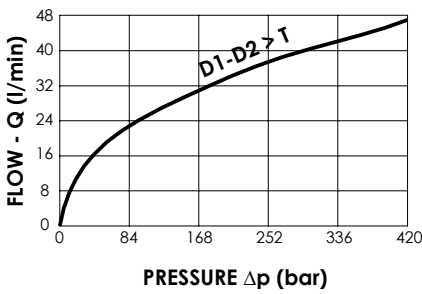
**MFLN-500-RFSR**

FLUSHING VALVE  
FLANGEABLE TYPE



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	500 l/min
Manifold:	Steel
Weight:	3,38 kg



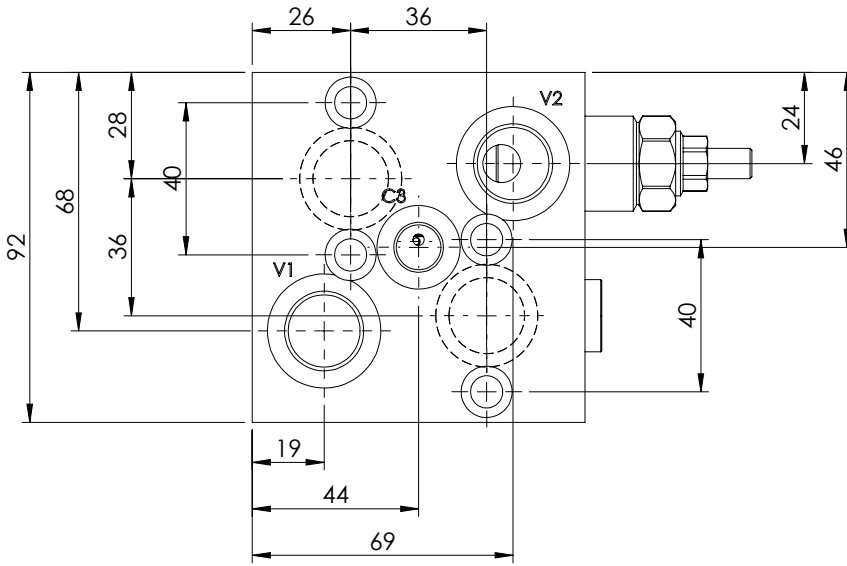
**ORDERING CODES**

Quick code	Description	Main ports size	Spool setting (bar)	A Orifice $\phi$	
MF000109	MFLN-500-RFSR-13-S10-N420	V1, V2: G1" D1, D2: 1" SAE 6000 T: G3/8"	6	2,1	

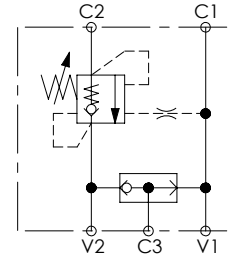
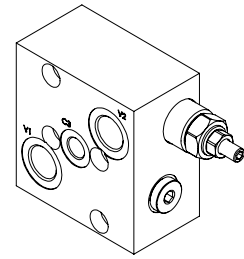
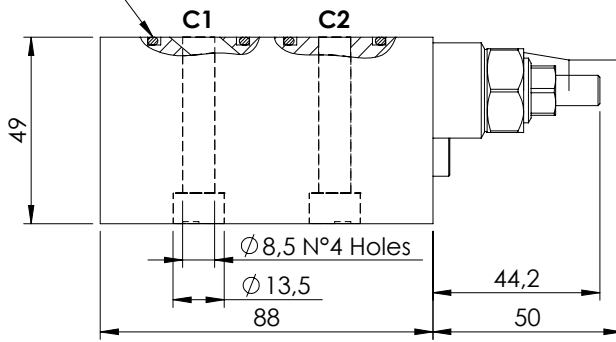
VALVES FOR MOTORS

**MBSN-060-ZMSF**

OVERCENTRE  
WITH BRAKE RELEASE



O-Ring 21,89x2,62 - N70

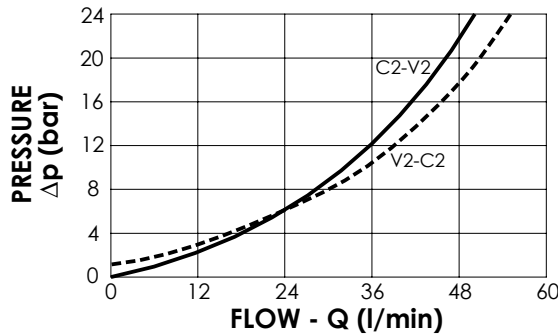
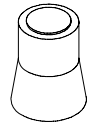


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Aluminium
Weight:	1,09 kg

**SEALING CAP**

Ordering code:  
**AT00020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

Designed for DANFOSS motors OMP-OMR series

**ORDERING CODES**

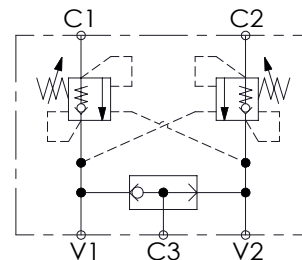
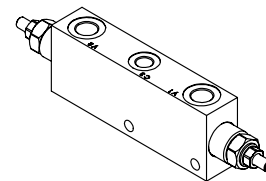
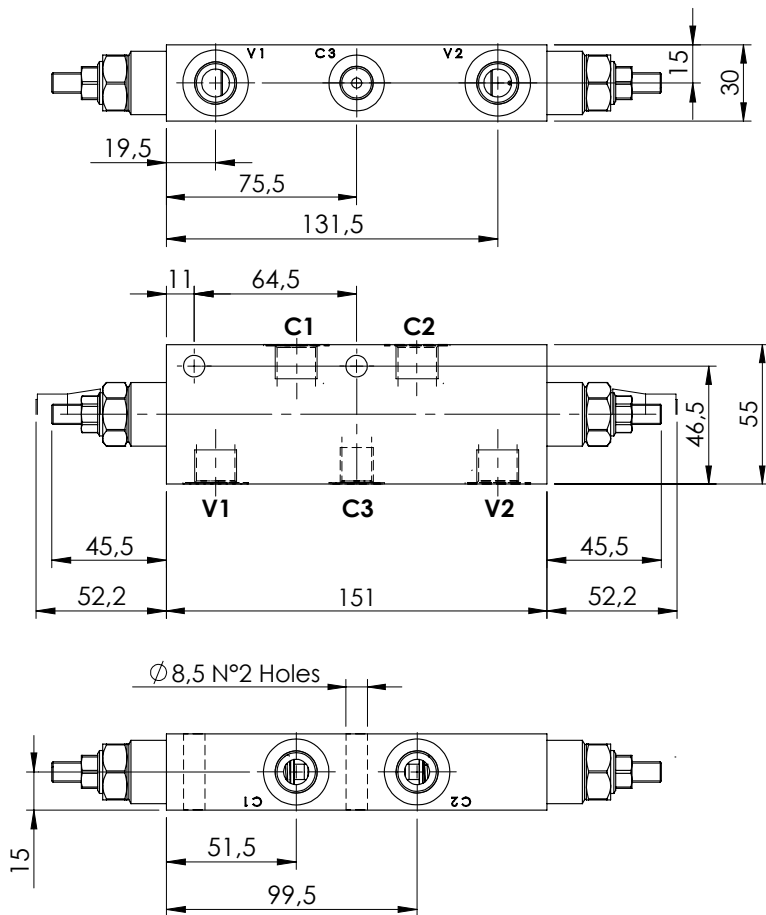
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000796	MBSN-060-ZMSF-04-G12-N350-NOMP	4,2:1	V1,V2: G1/2" C1,C2: OMP flange C3: G 1/4"	350	100-350	139
MB000795	MBSN-060-ZMSF-04-G12-N200-NOMP	4,2:1	V1,V2: G1/2" C1,C2: OMP flange C3: G 1/4"	200	60-210	62



VALVES FOR MOTORS

**MBDN-060-ALSF**

**DOUBLE ACTING WITH  
BRAKE RELEASE**

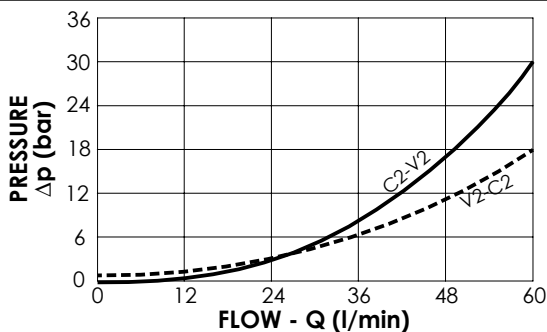
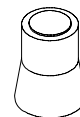


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	1,89 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

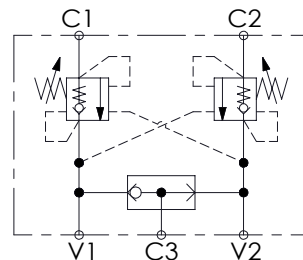
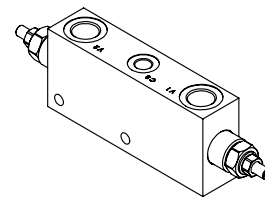
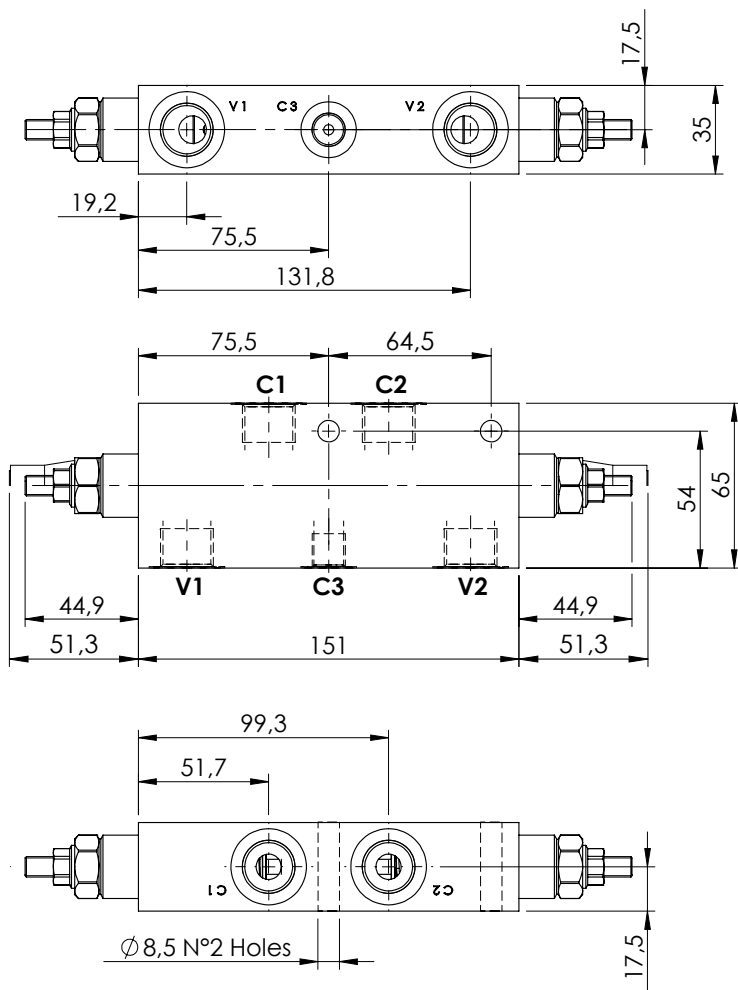
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000528	MBDN-060-ALSF-04-G38-N350	4,2:1	V1,V2: G3/8" C1,C2: G3/8" C3:G1/4"	350	100-350	138
MB000529	MBDN-060-ALSF-04-G38-N200	4,2:1	V1,V2: G3/8" C1,C2: G3/8" C3:G1/4"	200	60-210	62
MB000704	MBDN-060-ALSF-11-G38-N250	11:1	V1,V2: G3/8" C1,C2: G3/8" C3:G1/4"	250	60-250	56

VALVES FOR MOTORS

**MBDN-060-ALSF**

**DOUBLE ACTING WITH  
BRAKE RELEASE**

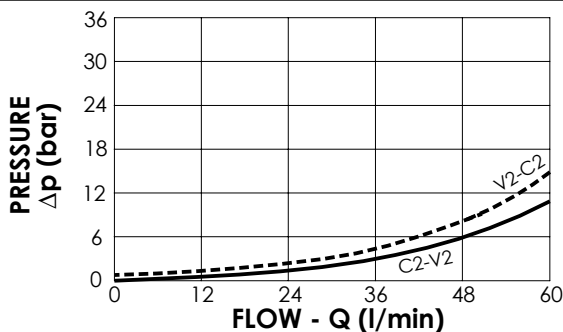
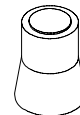


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	2,53 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

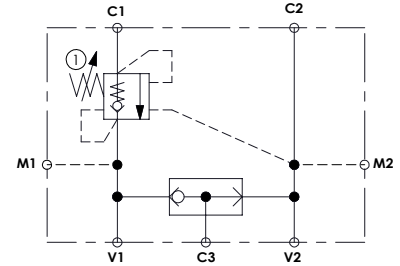
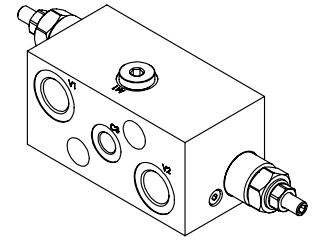
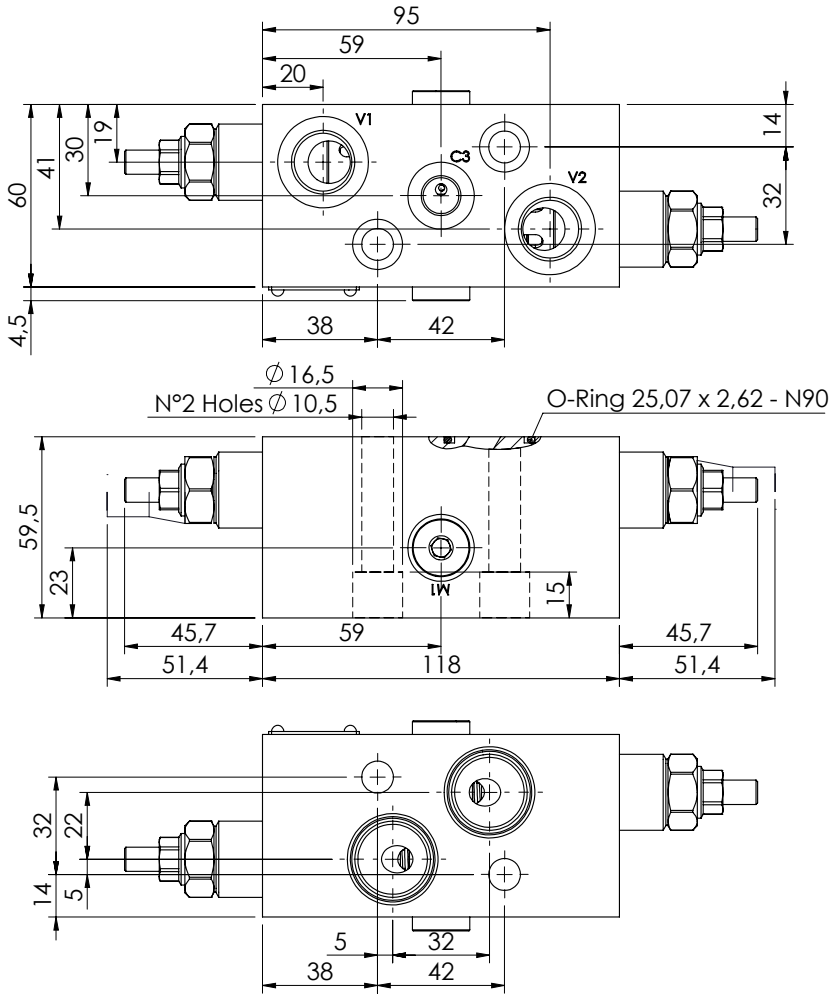
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000021	MBDN-060-ALSF-11-G12-N350	11:1	V1,V2: G1/2" C1,C2: G1/2" C3:G1/4"	350	100-350	161
MB000465	MBDN-060-ALSF-11-G12-N250	11:1	V1,V2: G1/2" C1,C2: G1/2" C3:G1/4"	250	60-250	69
MB000466	MBDN-060-ALSF-04-G12-N350	4,2:1	V1,V2: G1/2" C1,C2: G1/2" C3:G1/4"	350	100-350	139
MB000363	MBDN-060-ALSF-04-G12-N200	4,2:1	V1,V2: G1/2" C1,C2: G1/2" C3:G1/4"	200	60-210	62

VALVES FOR MOTORS

**MBDN-060-ZMSF**

**DOUBLE ACTING WITH  
BRAKE RELEASE**

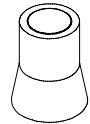


**SPECIFICATIONS**

Max. operating pressure:	250 bar
Rated flow:	60 l/min
Manifold:	Aluminium
Weight:	1,296 g

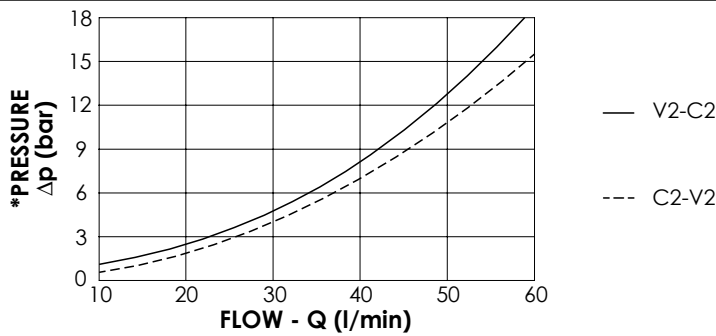
**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Designed for OMS motors



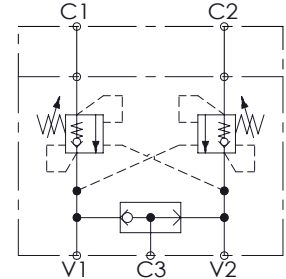
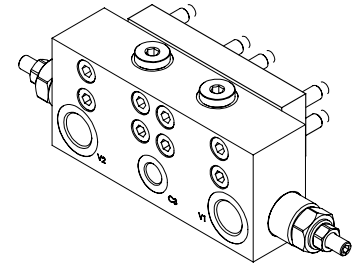
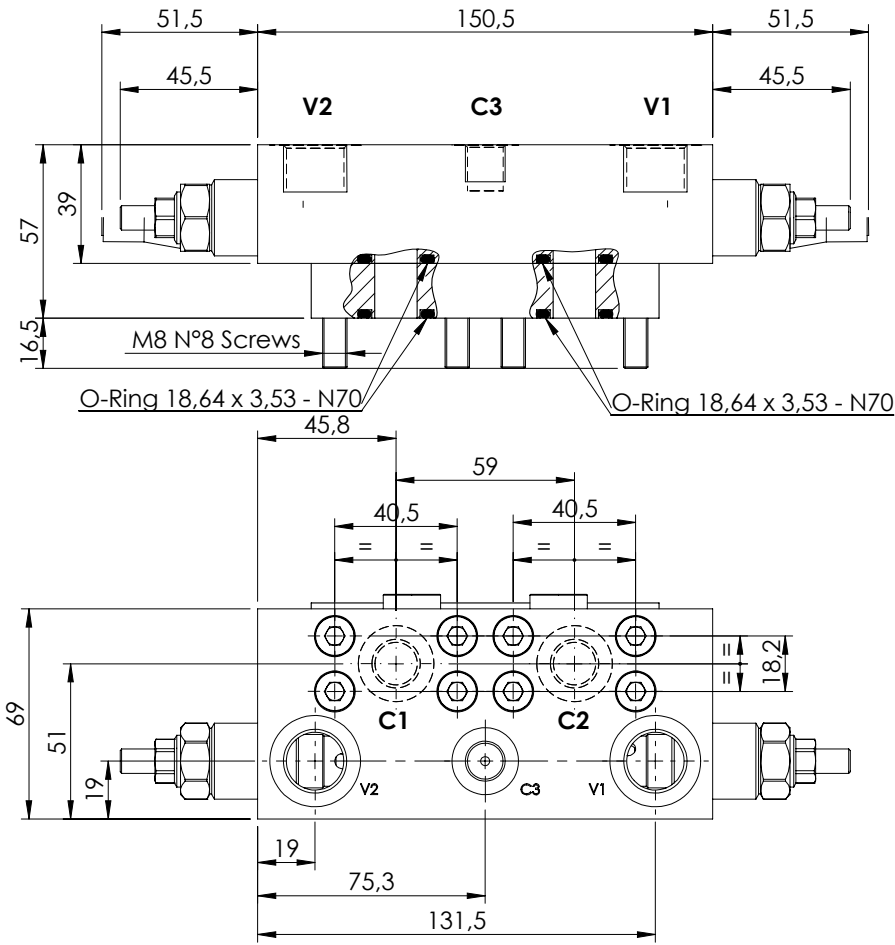
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000908	MBDN-060-ZMSF-11-G12-N250	11:1	V1, V2: G1/2" C1, C2: Ø9 C3, M1, M2: G1/4"	250	100-420	69

VALVES FOR MOTORS

**MBDN-060-ZMNR**

OVERCENTRE  
WITH BRAKE RELEASE

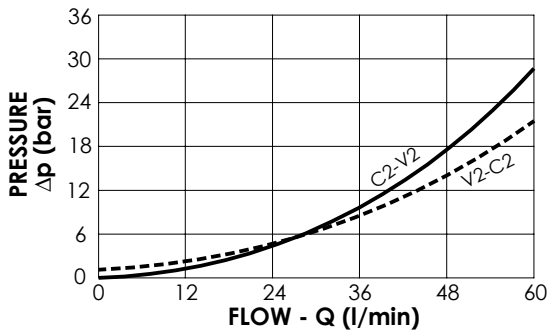
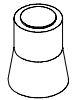


**SPECIFICATIONS**

Max. operating pressure:	250 bar
Rated flow:	60 l/min
Manifold:	Anodized Aluminium
Weight:	2 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

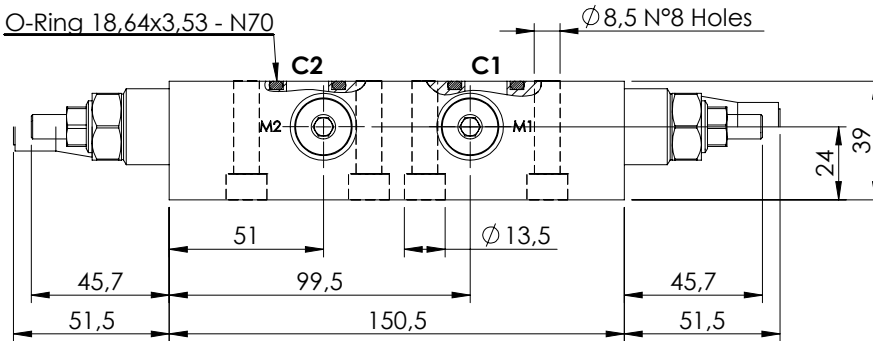
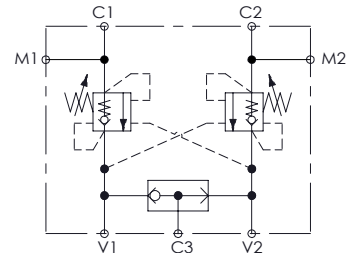
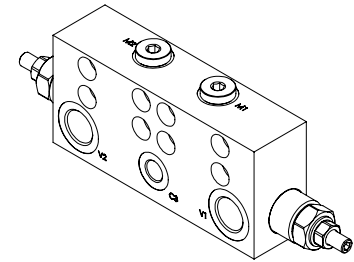
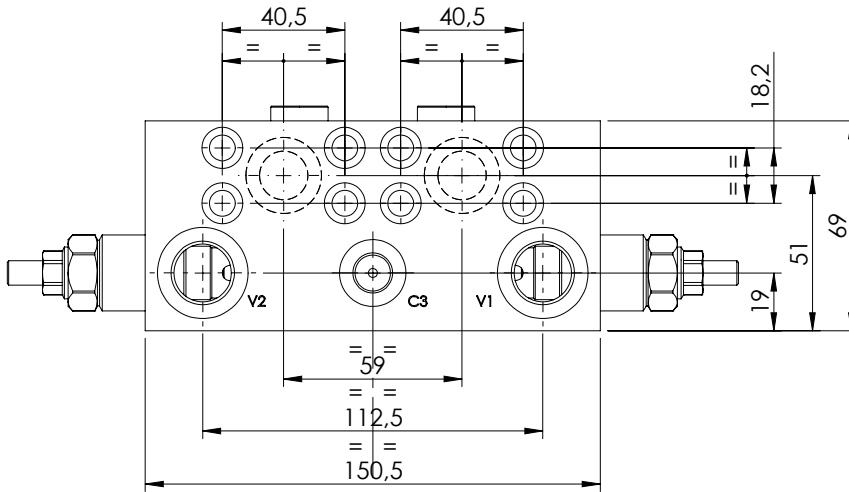
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000195	MBDN-060-ZMNR-11-G12-N250	11:1	V1,V2: G 1/2" C3: G 1/4" C1,C2: 1/2" SAE 6000	250	60-250	69

VALVES FOR MOTORS

**MBDN-060-ABSF**

DUAL PILOT  
WITH BRAKE RELEASE

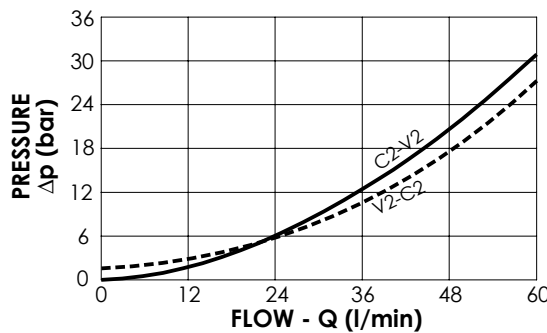
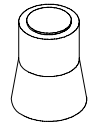


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	2,91 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure

Designed for REXROTH motors  
A2FE-28-32 series

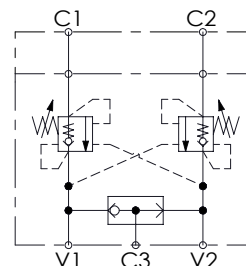
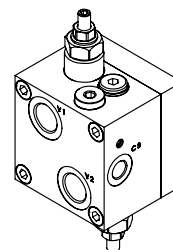
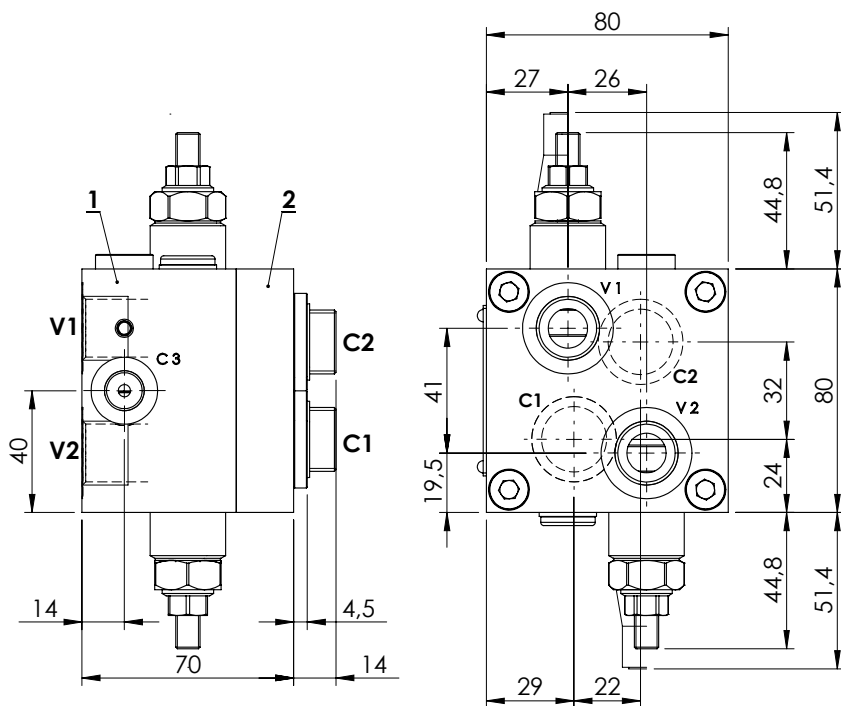
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000868	MBDN-060-ABSF-04-G12-N350	4:1	V1,V2: G1/2" C3,M1,M2: G1/4" C1,C2: Ø14	170	100-350	139

VALVES FOR MOTORS

**MBDN-060-LMSF**

**OVERCENTRE  
WITH BRAKE RELEASE**

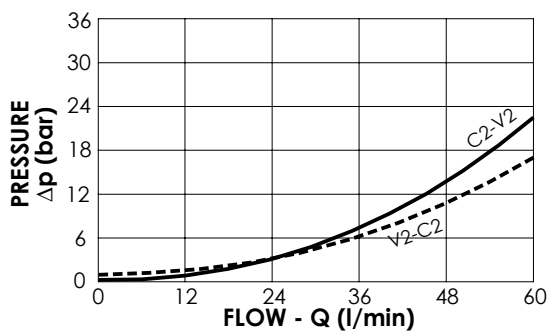
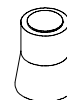


**SPECIFICATIONS**

Max. operating pressure:	250 bar
Rated flow:	60 l/min
Manifold:	Anodized Aluminium
Weight:	2,07 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

Designed for OMS motors

Valve composed by:  
1.MB000520  
2.MP000012

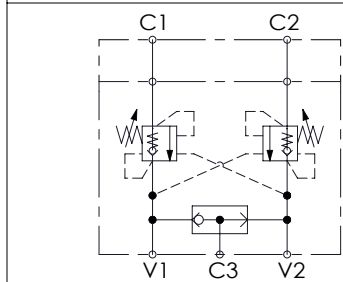
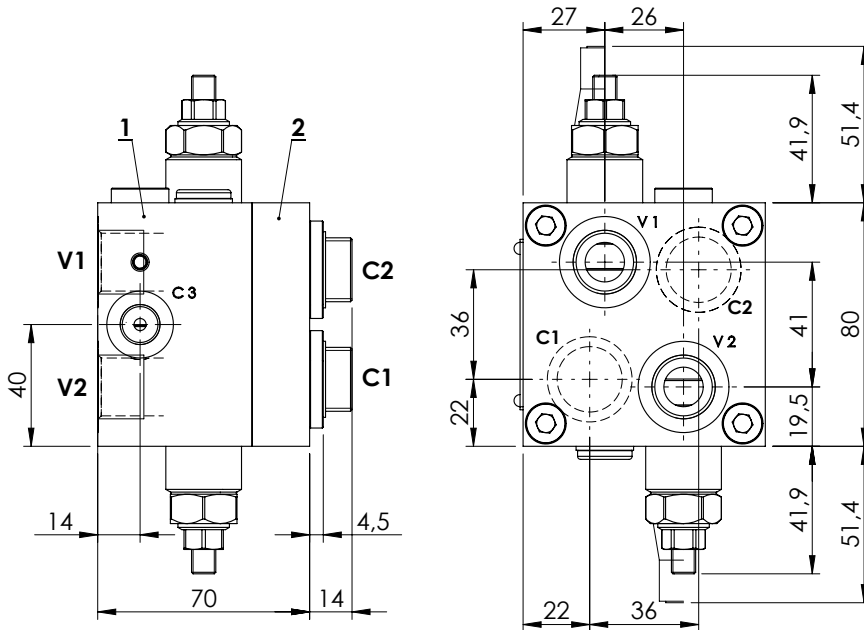
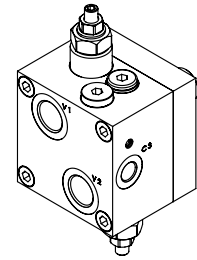
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000036	MBDN-060-LMSF-04-G12-N200-NOMS	4,2:1	V1,V2: G 1/2" C1,C2: OMS flange C3: G 1/4"	200	60-210	62

VALVES FOR MOTORS

**MBDN-060-LMSF**

OVERCENTRE  
WITH BRAKE RELEASE

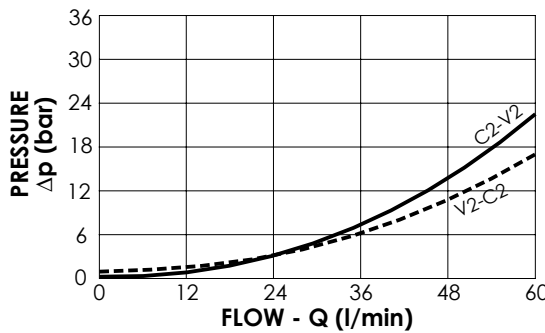
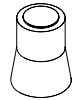


**SPECIFICATIONS**

Max. operating pressure:	250 bar
Rated flow:	60 l/min
Manifold:	Anodized Aluminium
Weight:	2,07 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

Designed for OMP motors

Valve composed by:  
1.MB000520  
2.MP000013

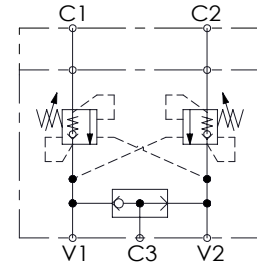
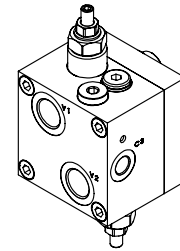
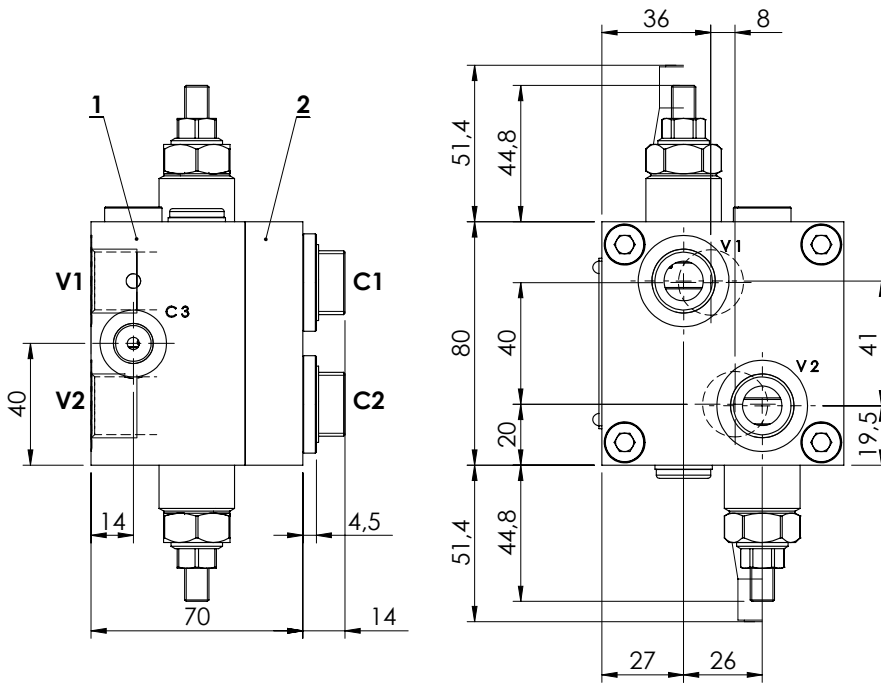
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000208	MBDN-060-LMSF-04-G12-N200-NOMP	4,2:1	V1,V2: G 1/2" C1,C2: OMP flange C3: G1/4"	200	60-210	62

VALVES FOR MOTORS

**MBDN-060-AMSF**

**OVERCENTRE  
WITH BRAKE RELEASE**

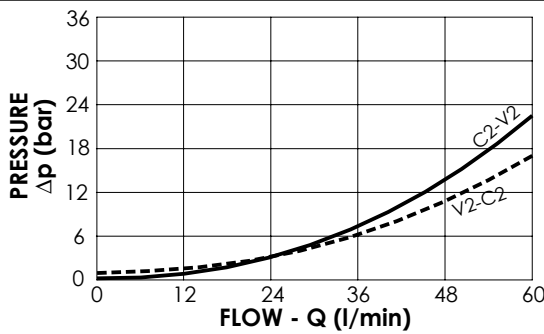


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	3,44 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

Setting: at least 1.3 times the load induced pressure  
Designed for SAM HYDRAULIK BR motors  
Valve composed by:  
1.MB000619  
2.MP000034

**ORDERING CODES**

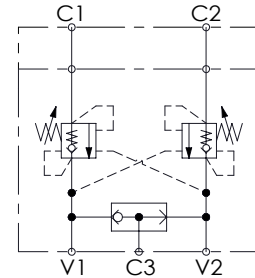
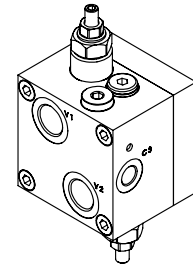
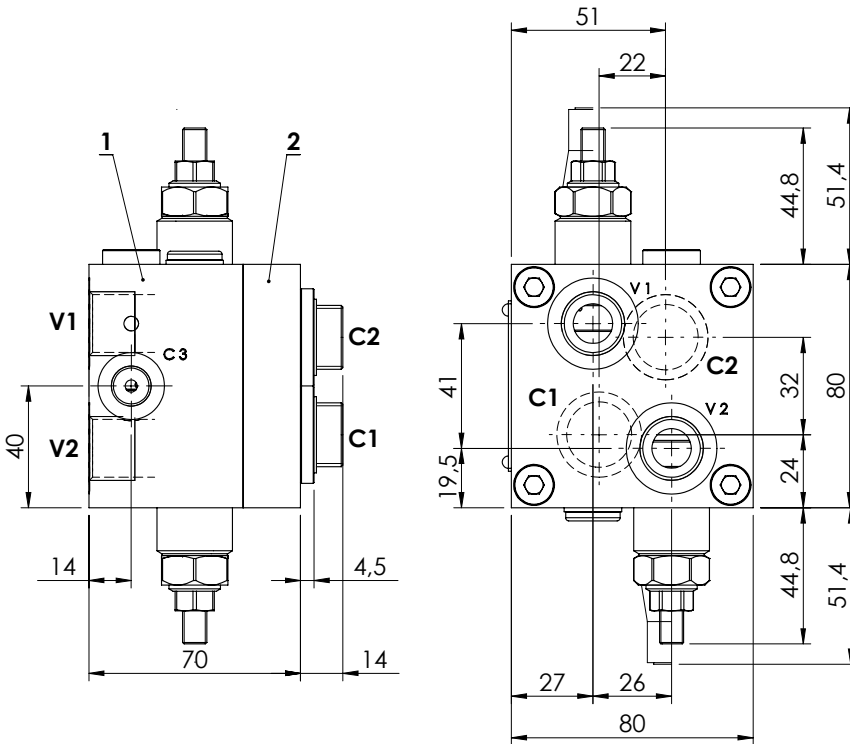
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000317	MBDN-060-AMSF-04-G12-N200-SH BR	4,2:1	V1,V2: G 1/2" C1,C2: Sam Hydraulik flange C3: G 1/4"	200	60-210	62



VALVES FOR MOTORS

**MBDN-060-AMSF**

**OVERCENTRE  
WITH BRAKE RELEASE**

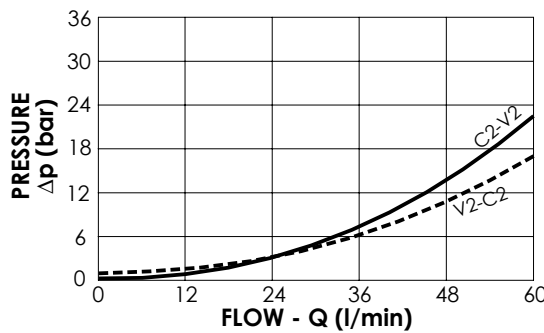
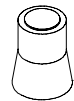


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	3,44 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure

Designed for  
SAM HYDRAULIC HR/OMS motors

Valve composed by:  
1.MB000619  
2.MP000030

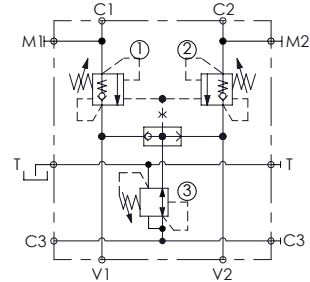
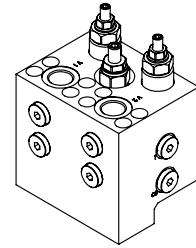
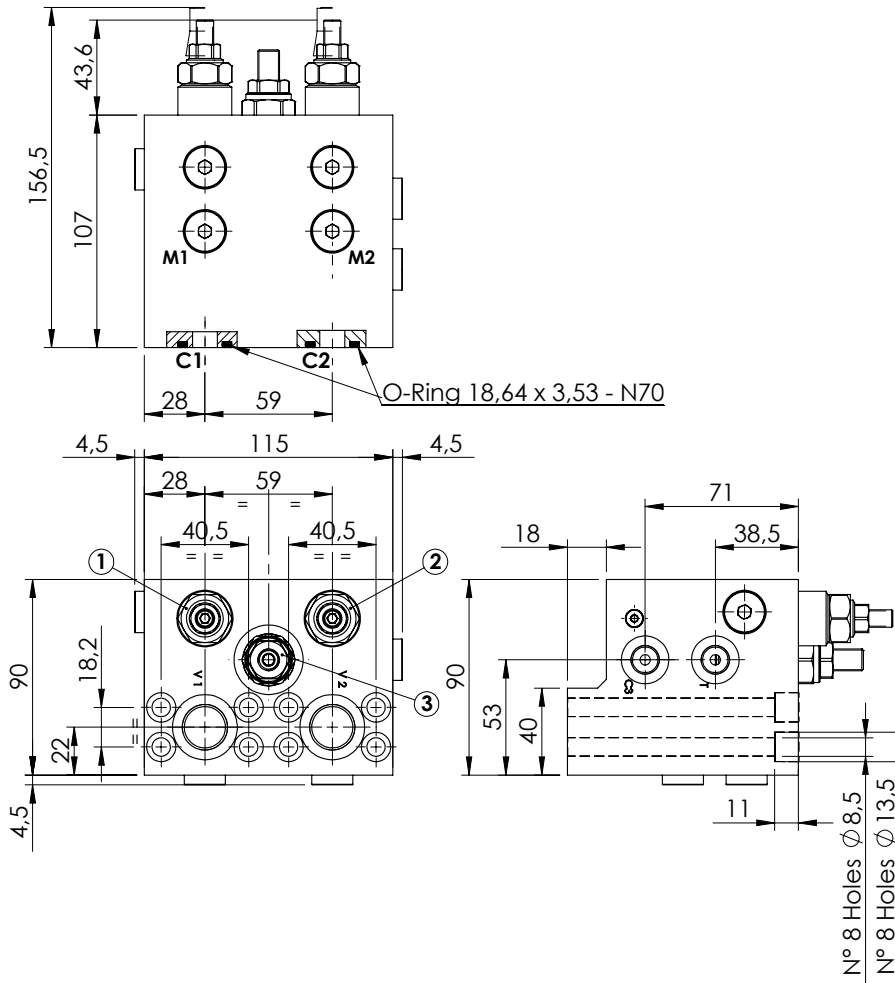
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000319	MBDN-060-AMSF-04-G12-N200-SH HR	4,2:1	V1,V2: G 1/2" C1, C2: Sam Hydraulic HR /OMS C3: G 1/4"	200	60-210	62

VALVES FOR MOTORS

**MBDN-060-AMSR**

OVERCENTRE  
WITH BRAKE RELEASE

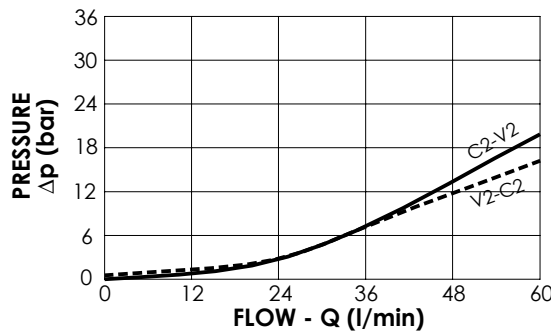


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	7,04 kg

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Setting: at least 1.3 times the load induced pressure  
Designed for REXROTH A2FE 28-32 motors

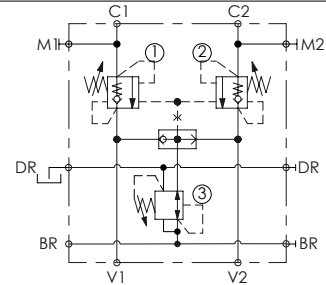
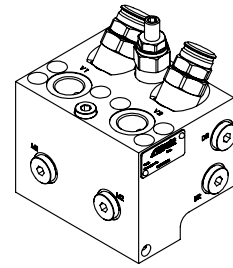
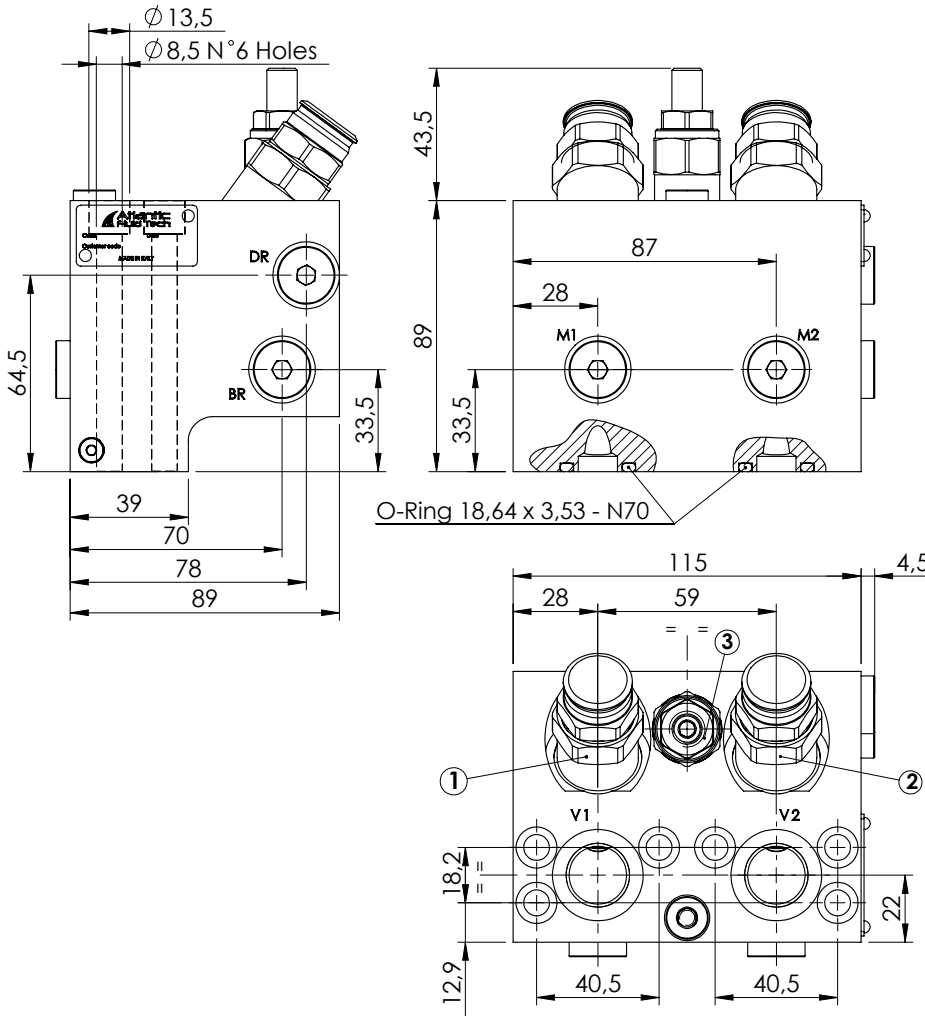
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000483	MBDN-060-AMSR-11-S12-N420	11:1	V1,V2:G1/2" C1,C2:1/2 SAE 6000 C3,T,M1,M2:G1/4"	① ② :350 ③ :50	① ② :80-350 ③ :10-60	① ② :161 ③ :6

VALVES FOR MOTORS

**MBDN-100-AMSR**

**OVERCENTRE  
WITH BRAKE RELEASE**

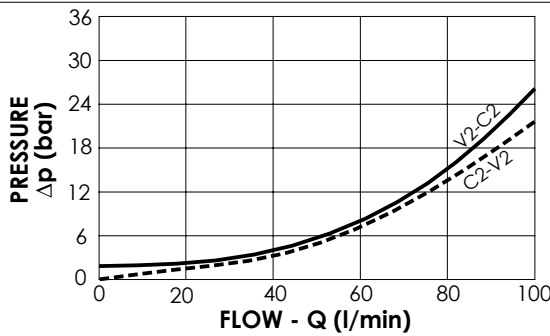
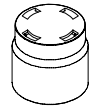


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	100 l/min
Manifold:	Steel
Weight:	5,83 kg

**SEALING CAP**

Ordering code:  
**PT000243**



**NOTES**

Setting: at least 1.3 times the load induced pressure

Designed for REXROTH A2FE 28-32 motors

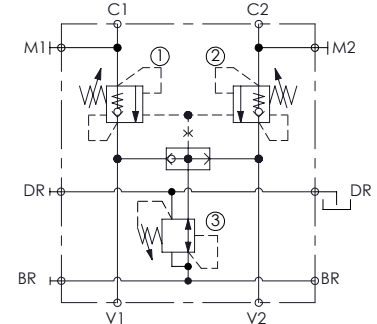
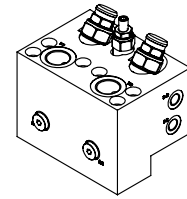
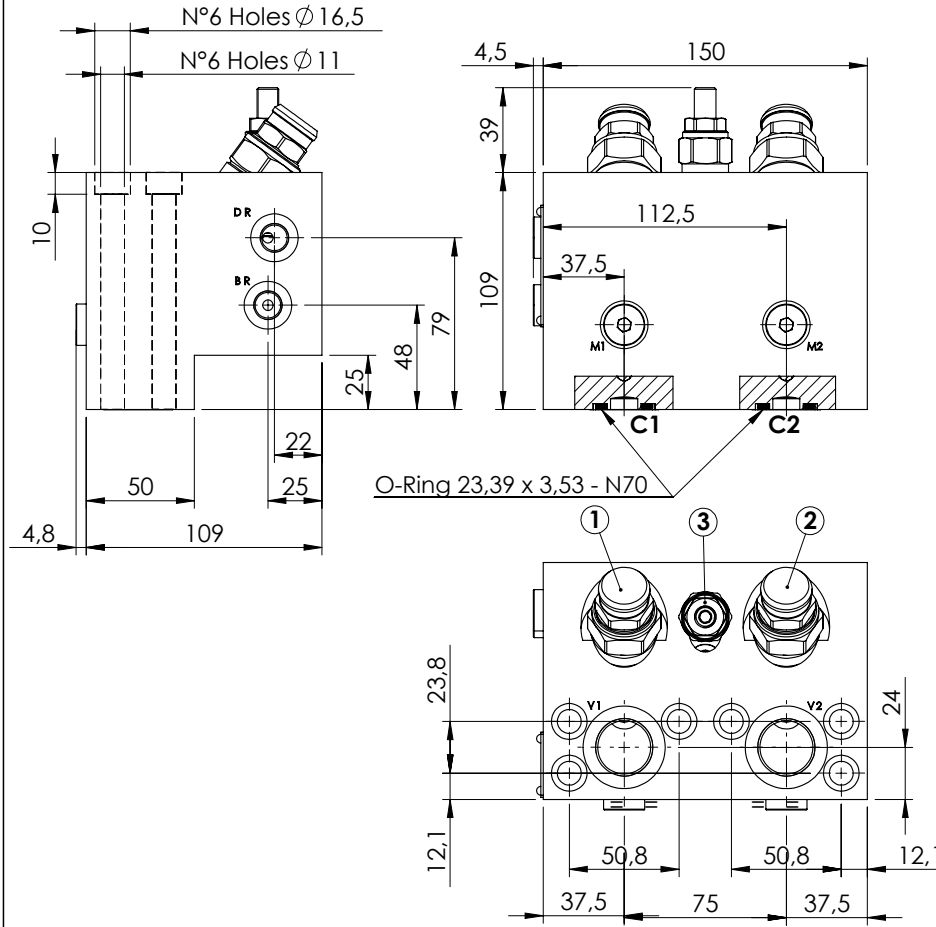
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000484	MBDN-100-AMSR-04-S12-N420	3,8:1	V1,V2: G1/2" C1,C2: 1/2" SAE 6000 DR,BR,M1,M2: G1/4"	① ②:350 ③:40	① ②:100-350 ③:10-60	① ②:118 ③:6
MB000766	MBDN-100-AMSR-08-S12-N420	8:1	V1,V2: G1/2" C1,C2: 1/2" SAE 6000 DR,BR,M1,M2: G1/4"	① ②:350 ③:40	① ②:100-350 ③:10-60	① ②:132 ③:6

VALVES FOR MOTORS

**MBDN-150-AMSR**

**OVERCENTRE  
WITH BRAKE RELEASE**

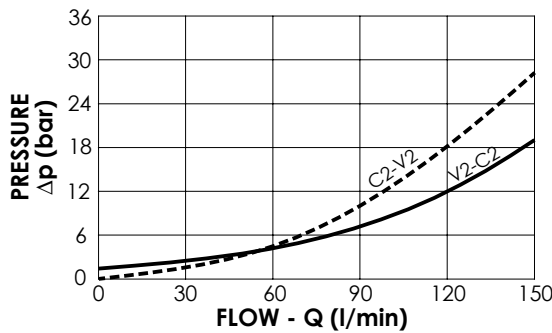


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	11 kg

**SEALING CAP**

Ordering code:  
ST000012



**NOTES**

Setting: at least 1.3 times the load induced pressure  
Designed for REXROTH A2FE 45-56-63 motors

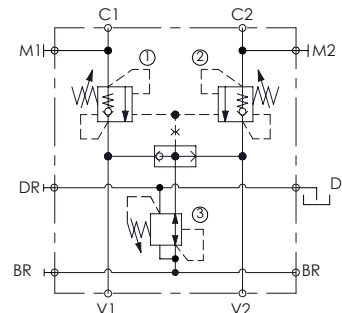
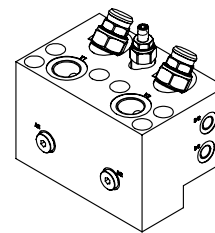
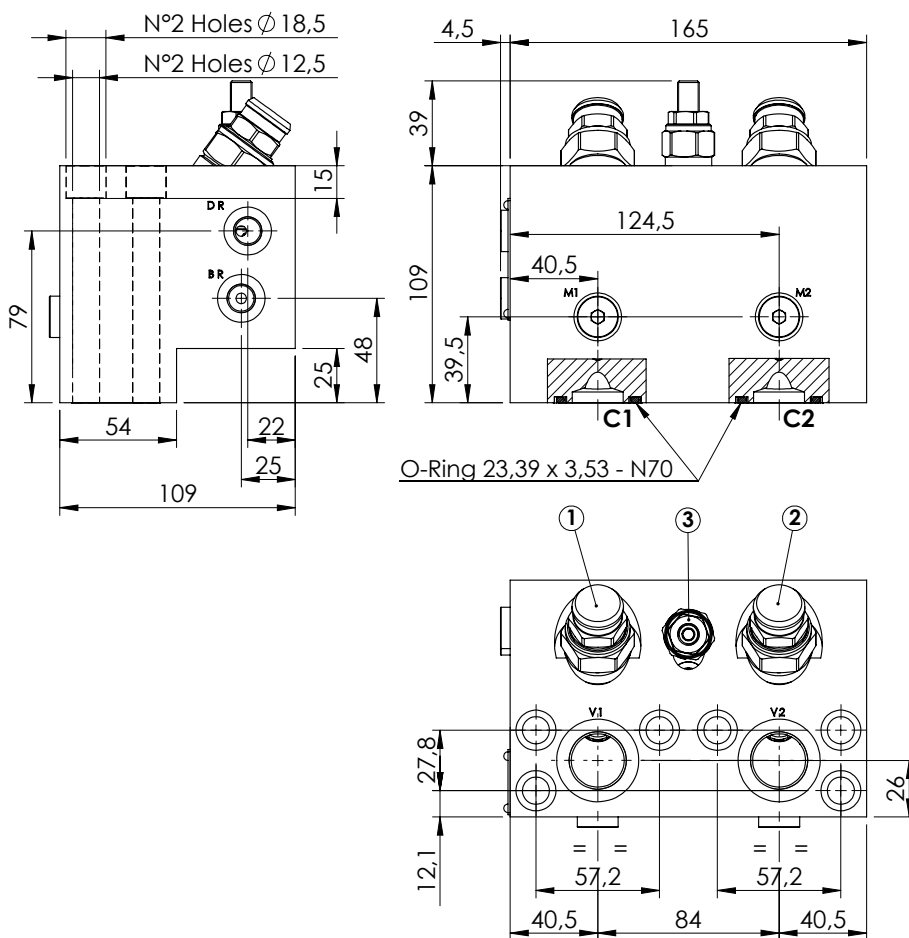
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000347	MBDN-150-AMSR-04-S34-N420	4:1	V1,V2:G3/4" C1,C2:3/4" SAE 6000 BR,DR,M1,M2:G1/4"	①②: 350 ③: 30	①②:100-350 ③: 10-60	①②: 104 ③: 6
MB000350	MBDN-150-AMSR-08-S34-N420	8:1	V1,V2:G3/4" C1,C2:3/4" SAE 6000 BR,DR,M1,M2:G1/4"	①②: 380 ③: 30	①②:100-420 ③: 10-60	①②: 82 ③: 6

VALVES FOR MOTORS

**MBDN-150-AMSR**

**OVERCENTRE  
WITH BRAKE RELEASE**

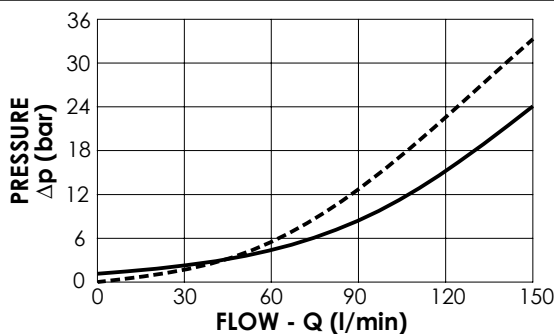
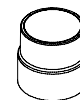


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	12,07 kg

**SEALING CAP**

Ordering code:  
ST00012



**NOTES**

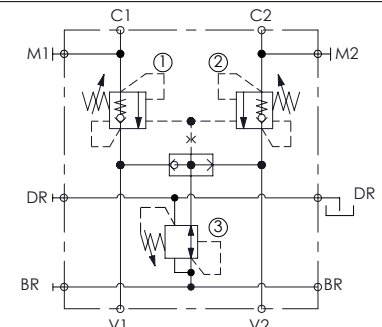
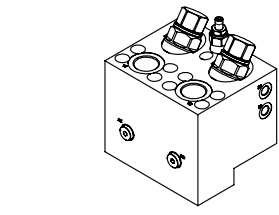
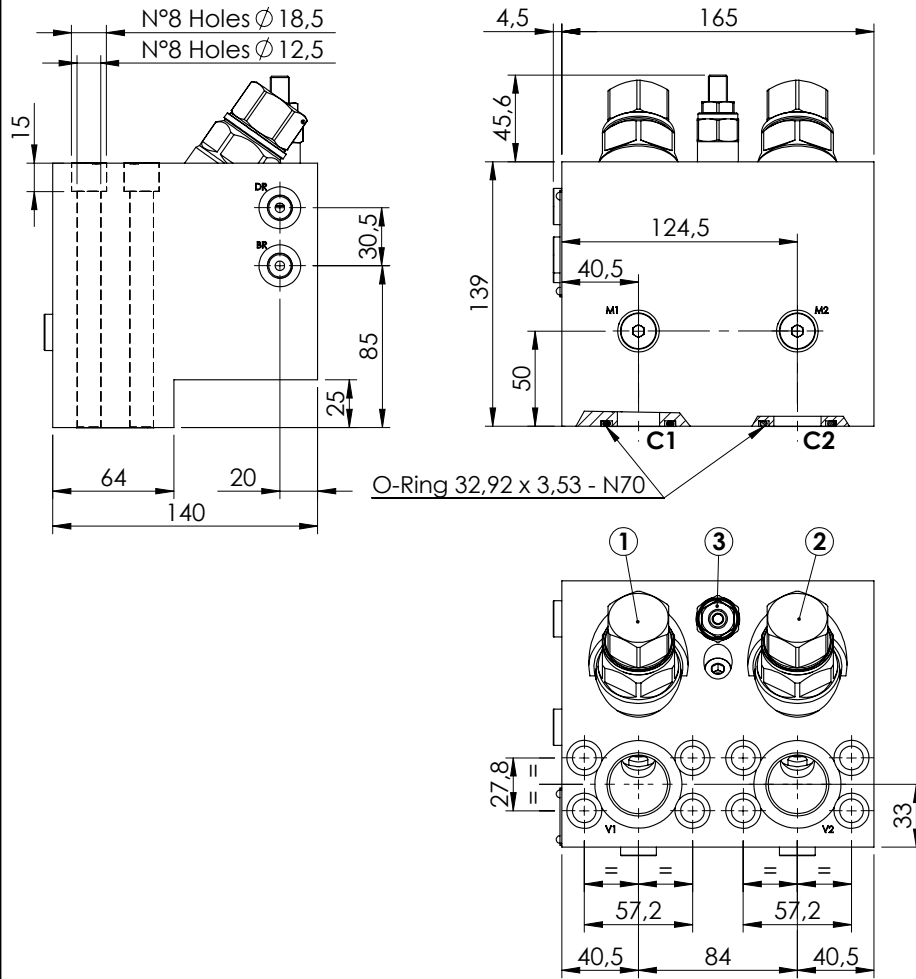
Setting: at least 1.3 times the load induced pressure  
Designed for REXROTH A2FE 80-90 motors

**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000477	MBDN-150-AMSR-04-S10-N420	4:1	V1,V2:G 3/4" C1,C2: 1" SAE 6000 BR,DR:G 1/4"	①②: 350 ③: 40	①②:100-350 ③: 10-60	①②: 104 ③: 6

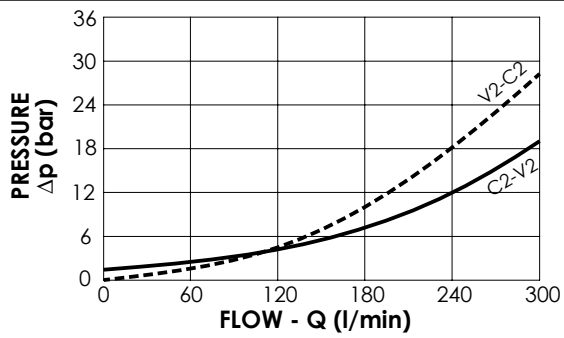
VALVES FOR MOTORS

**MBDN-300-AMSR** OVERCENTRE WITH BRAKE RELEASE



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	300 l/min
Manifold:	Steel
Weight:	20,45 kg



**NOTES**

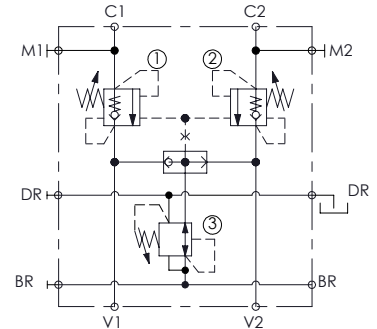
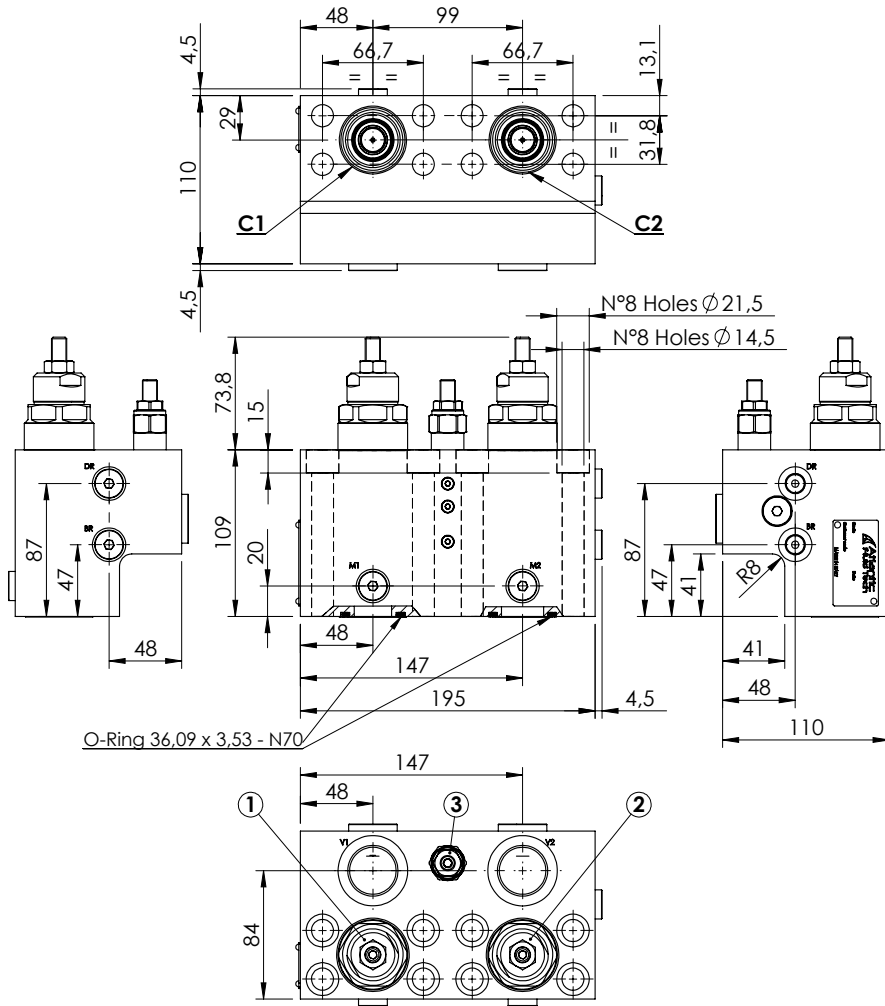
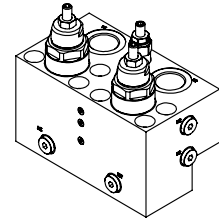
Setting: at least 1.3 times the load induced pressure  
 Designed for REXROTH A2FE 80-90 motors

**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000402	MBDN-300-AMSR-04-S10-N420	4:1	V1,V2: G 1" C1,C2: 1" SAE 6000 BR,DR,M1,M2: G1/4"	① ② : 350 ③ : 30	① ② : 100-350 ③ : 10-60	① ② : 75 ③ : 6
MB000349	MBDN-300-AMSR-06-S10-N420	6:1	V1,V2: G 1" C1,C2: 1" SAE 6000 BR,DR,M1,M2: G1/4"	① ② : 380 ③ : 30	① ② : 100-420 ③ : 10-60	① ② : 62 ③ : 6

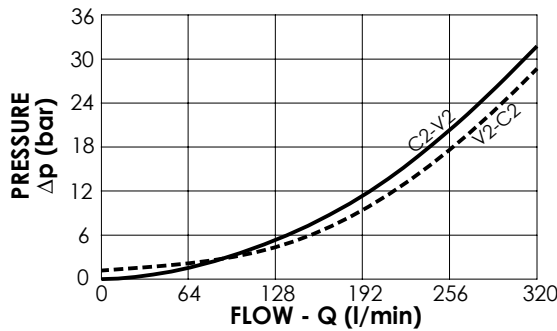
VALVES FOR MOTORS

**MBDN-320-AMSR** OVERCENTRE WITH BRAKE RELEASE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	320 l/min
Manifold:	Steel
Weight:	13,7 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure  
 Designed for REXROTH A2FE 107-125 160-180 motors

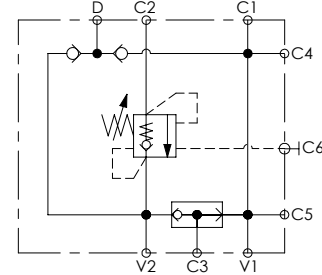
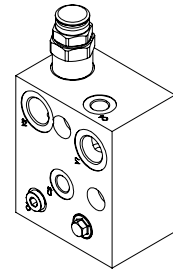
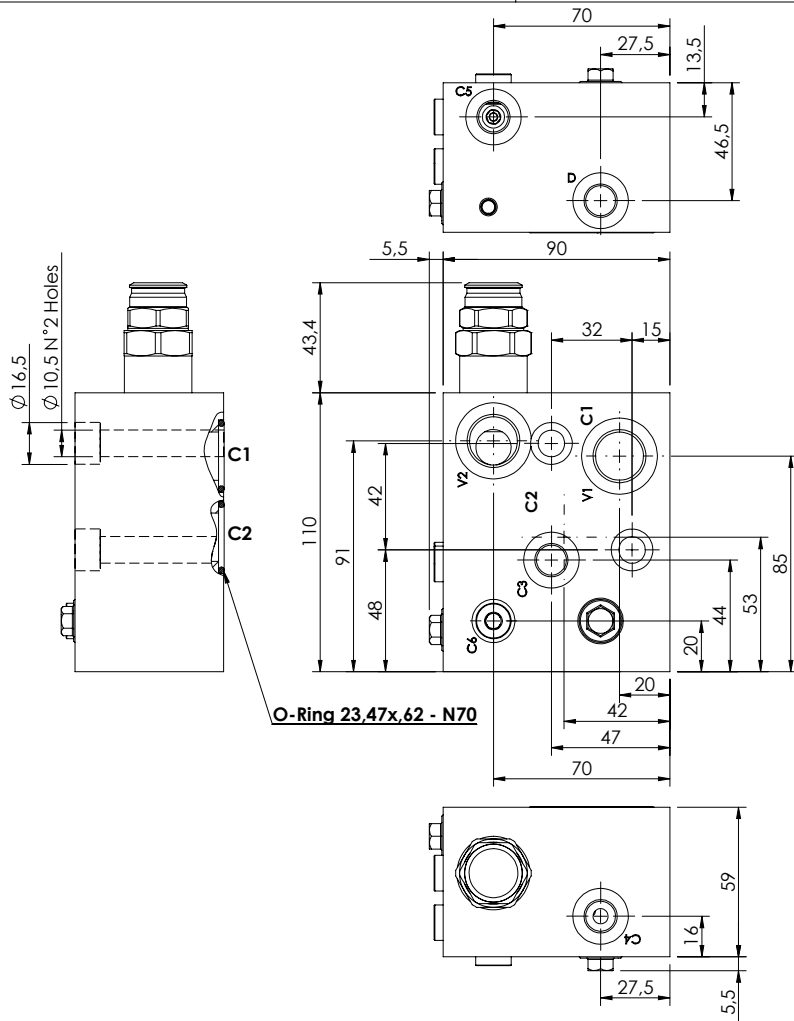
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000563	MBDN-320-AMSR-08-S11-N350	8:1	V1,V2: G 1" C1,C2: 1-1/4" SAE 6000 BR,DR,M1,M2: G1/4"	①②: 350 ③: 40	①②: 140-350 ③: 10-60	①②: 56 ③: 6,5

VALVES FOR WINCHES

**MBSN-100-ZMSF**

PILOT ASSISTED  
OVERCENTRE

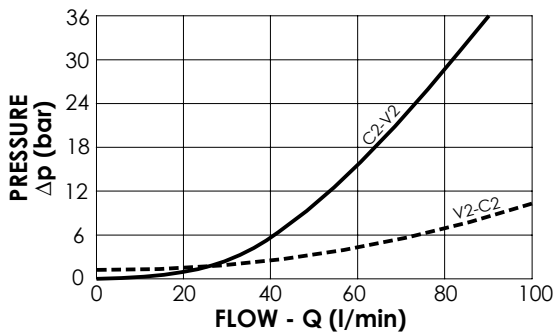
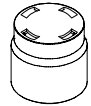


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Manifold:	Aluminum
Weight:	1,61 kg

**SEALING CAP**

Ordering code:  
PT000243



**NOTES**

Setting: at least 1.3 times the load induced pressure

Designed for DANFOSS motors OMS series.

**ORDERING CODES**

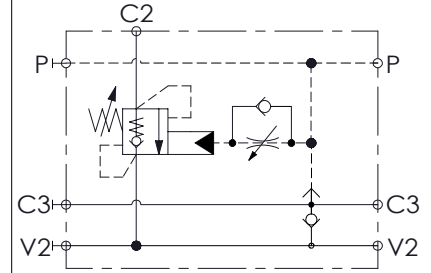
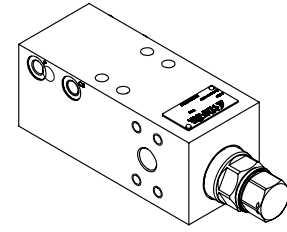
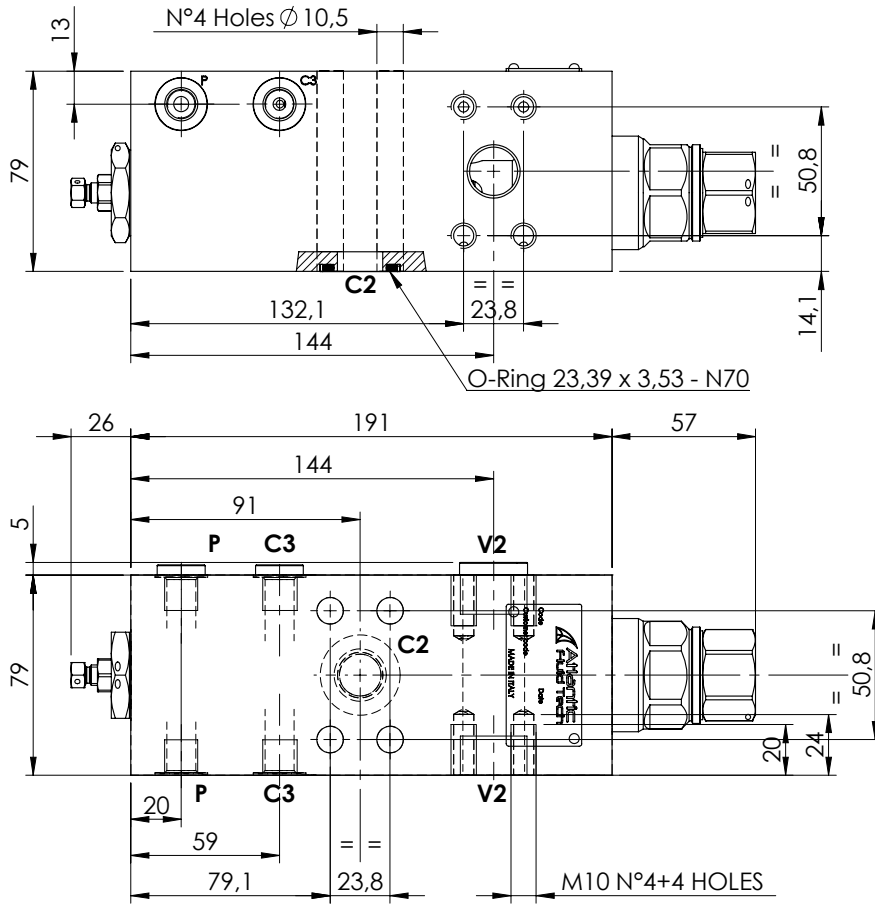
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000925	MBSN-100-ZMSF-04-G12-N350	4:1	V1,V2: G1/2" C6: G1/8" C1,C2: Ø19 D,C3,C4,C5: G1/4"	250	100-350	124



VALVES FOR WINCHES

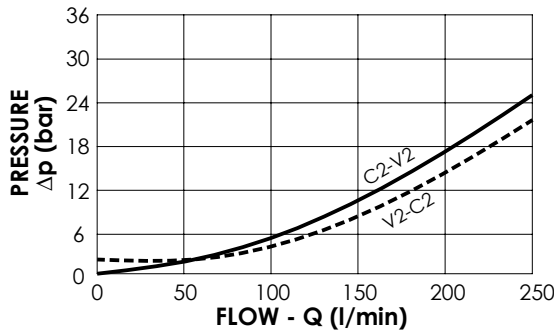
**MBSN-250-AMSF**

SINGLE ACTING  
WITH BRAKE RELEASE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	250 l/min
Manifold:	Steel
Weight:	8,1 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

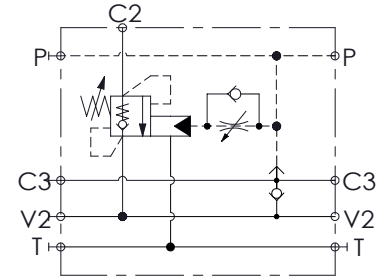
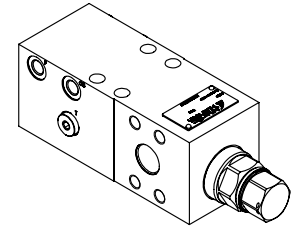
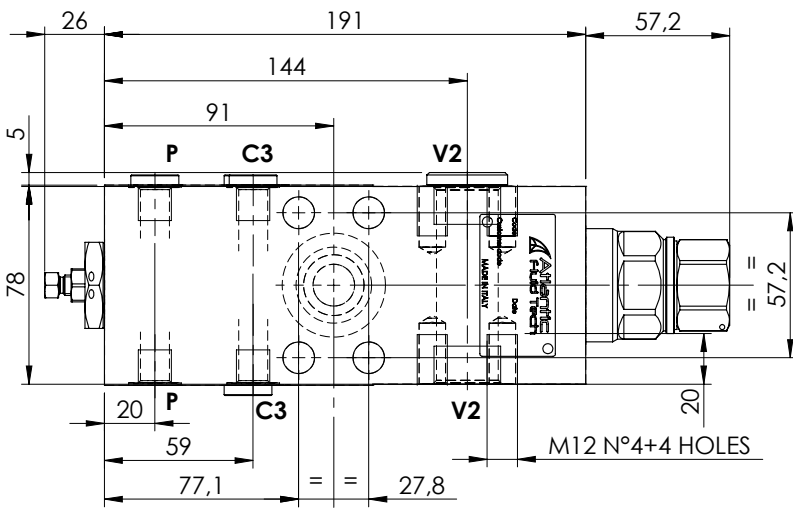
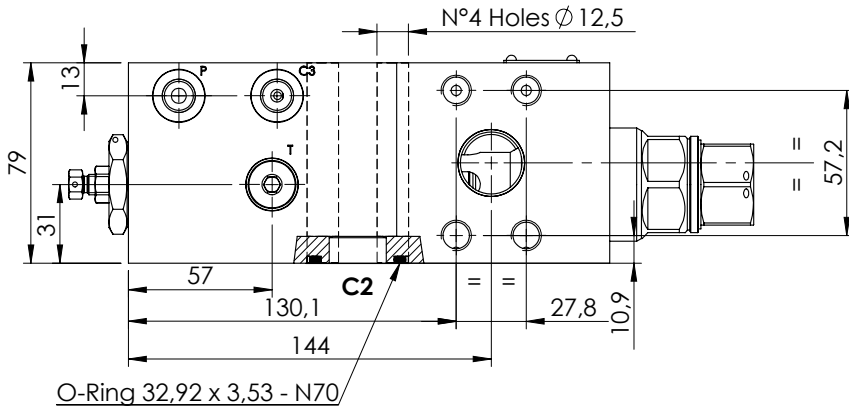
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000663	MBSN-250-AMSF-13-S34-N350	13:1	C2,V2 : 3/4" SAE 6000 P,C3 : G 1/4"	350	250-350	104

**VALVES FOR WINCHES**

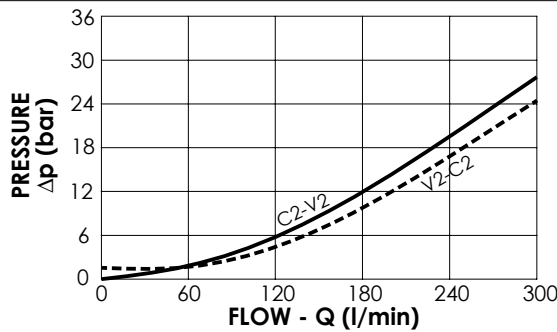
**MBSN-300-AMSF**

**SINGLE ACTING  
WITH BRAKE RELEASE**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	300 l/min
Manifold:	Steel
Weight:	8 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

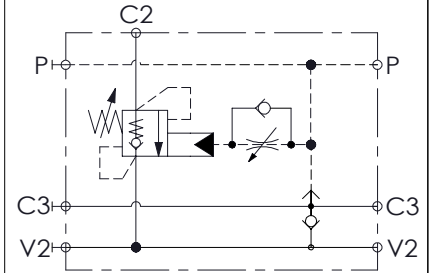
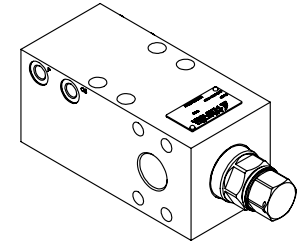
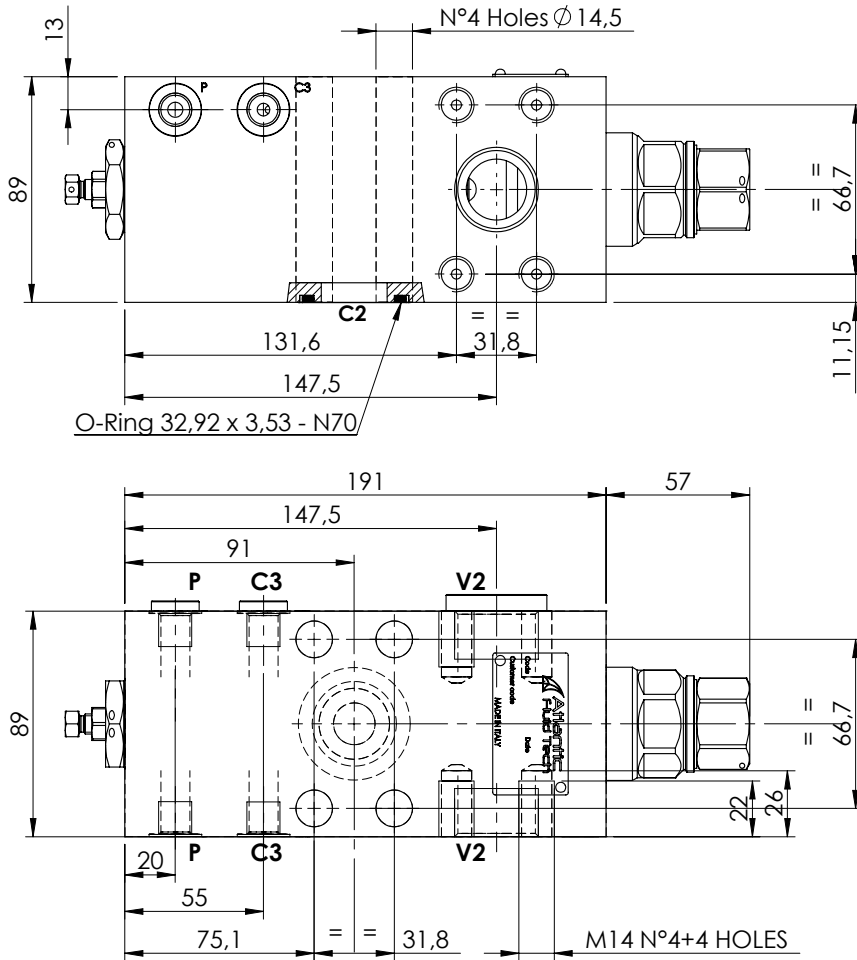
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000664	MBSN-300-AMSF-13-S10-N350	13:1	C2,V2 : 1" SAE 6000 P,C3 : G 1/4"	350	250-350	104

**VALVES FOR WINCHES**

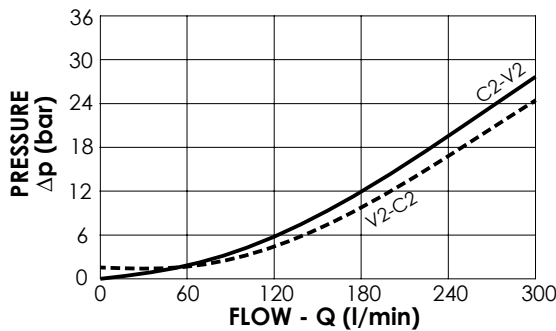
**MBSN-300-AMSF**

**SINGLE ACTING  
WITH BRAKE RELEASE**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	300 l/min
Manifold:	Steel
Weight:	10,91 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

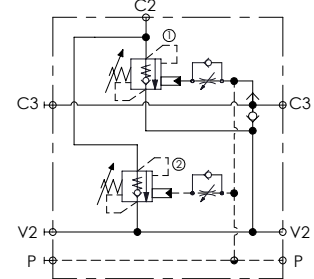
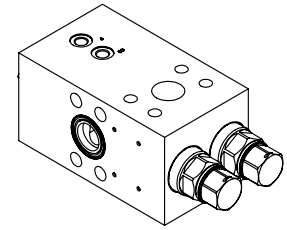
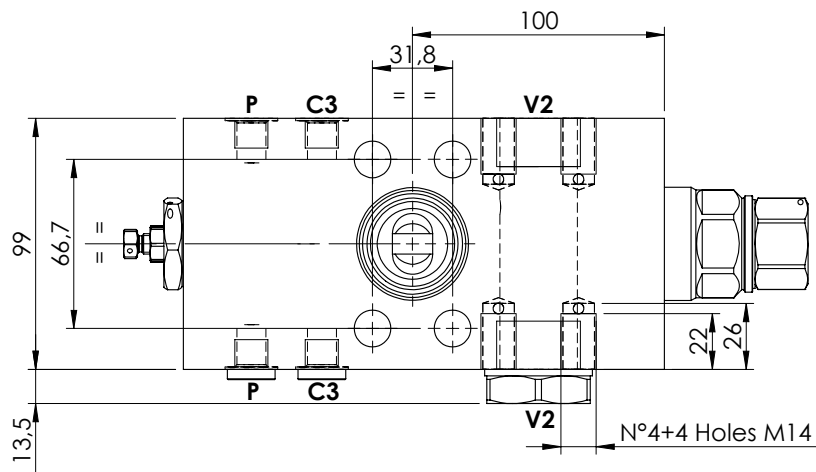
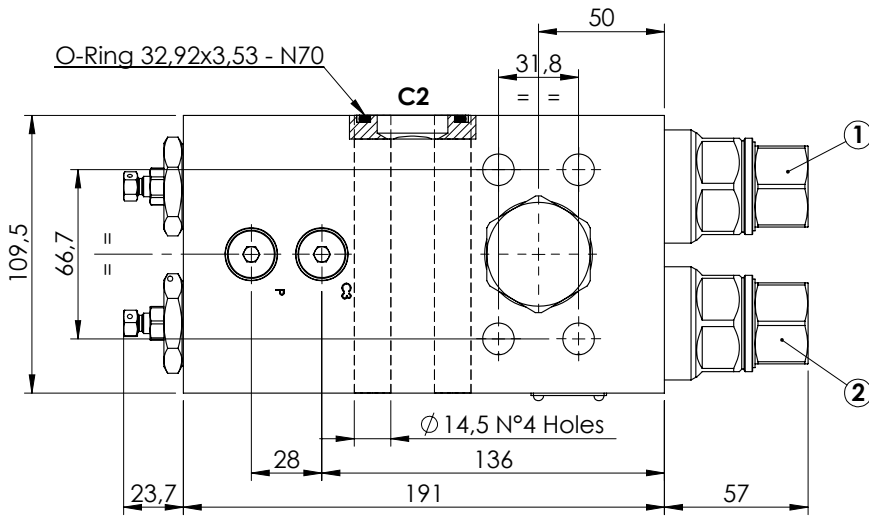
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000665	MBSN-300-AMSF-13-S11-N350	13:1	C2,V2 : 1-1/4" SAE 6000 P11,C3 : G 1/4"	500	250-500	104

VALVES FOR WINCHES

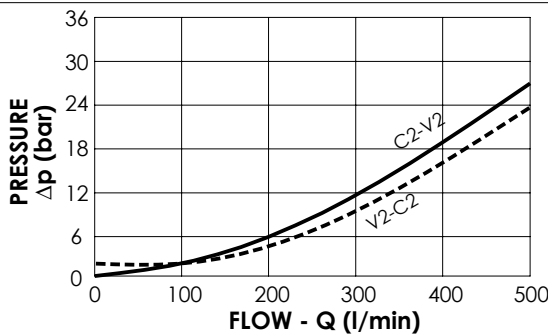
**MBDN-500-AMSF**

**DOUBLE ACTING  
WITH BRAKE RELEASE**



**SPECIFICATIONS**

Max. operating pressure:	500 bar
Rated flow:	500 l/min
Manifold:	Steel
Weight:	15,18 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MB000676	MBDN-500-AMSF-13-S11-N500	13:1	C2,V2: 1-1/4" SAE 6000 P,E,C3: G 1/4"	500	250-500	104

**SECTION 9**

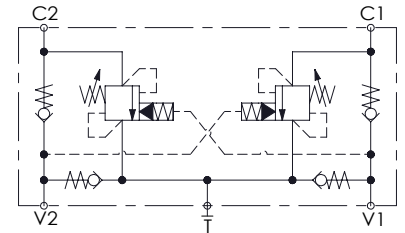
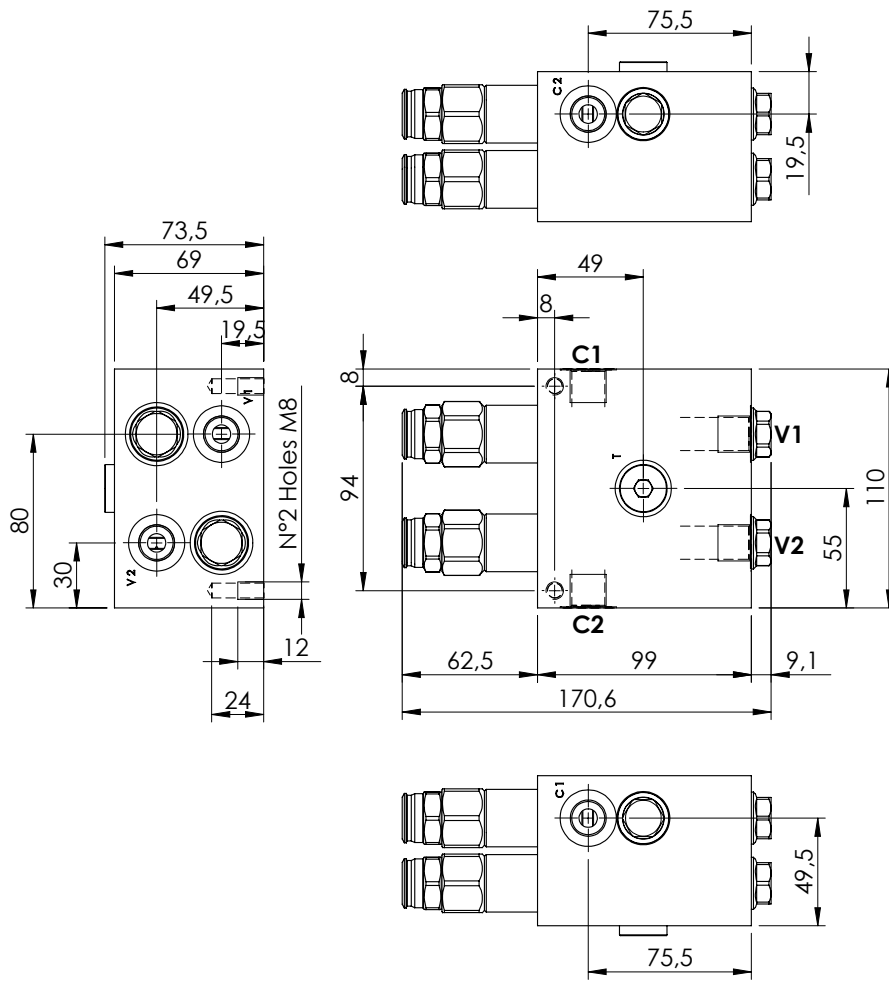
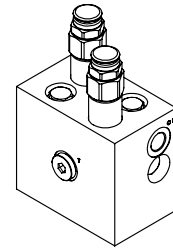
**MOTION CONTROL VALVES**



Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size	Page
	MNDN-040-LLST	Stabilized	40	350	In line	G 3/8"	9.01.010
	MNDN-120-LLST	Stabilized	120	350	In line	G 3/4"	9.01.020
	MNDN-200-LLST	Stabilized	200	350	In line	G 1"	9.01.030
	MNDN-040-LLSV	Stabilized, with brake release	40	350	In line	G 3/8"	9.02.040
	MNDN-120-LLSV	Stabilized, with brake release	120	350	In line	G 3/4"	9.02.050
	MNDN-200-LLSV	Stabilized, with brake release	200	350	In line	G 1"	9.02.060
	MNDN-040-LLPT	Stabilized and brake, dual setting	40	350	In line	G 3/8"	9.03.070
	MNDN-120-LLPT	Stabilized and brake, dual setting	120	350	In line	G 3/4"	9.03.080
	MNDN-200-LLPT	Stabilized and brake, dual setting	200	350	In line	G 1"	9.03.090
	MNDN-040-LLPV	Stabilized and brake, dual setting, with brake release	40	350	In line	G 3/8"	9.03.100
	MNDN-120-LLPV	Stabilized and brake, dual setting, with brake release	120	350	In line	G 3/4"	9.03.110
	MNDN-200-LLPV	Stabilized and brake, dual setting, with brake release	200	350	In line	G 1"	9.03.120

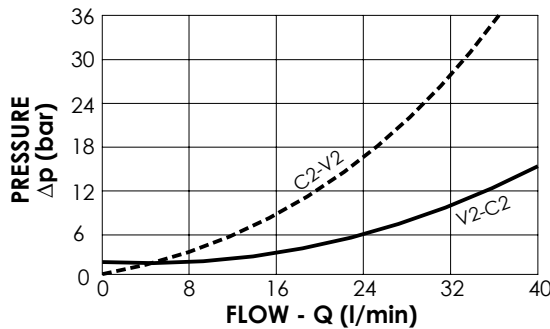
# MNDN-040-LLST

STABILIZED



## SPECIFICATIONS

Max. operating pressure:	300 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	2,65 kg



## NOTES

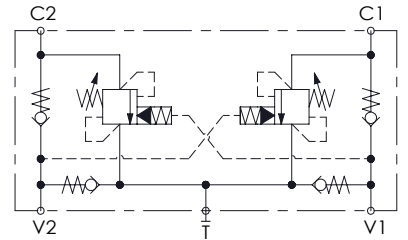
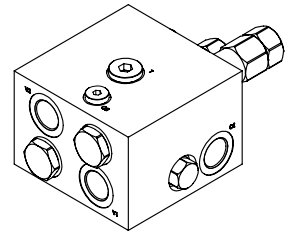
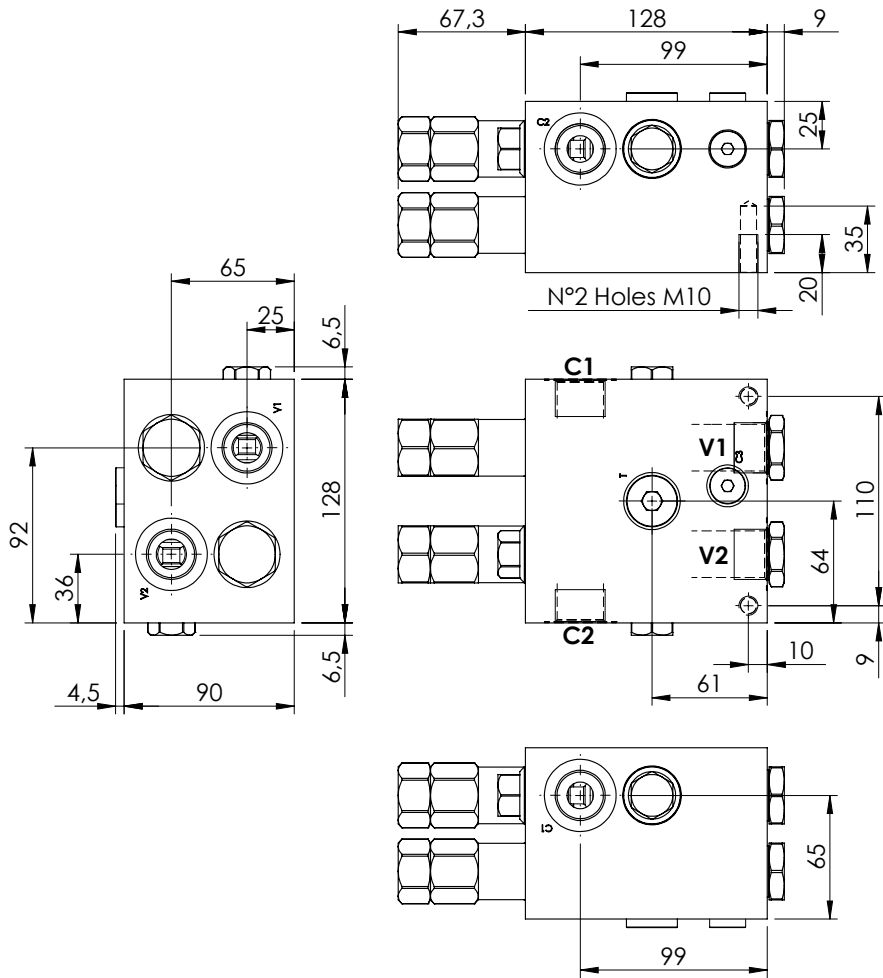
Setting: at least 1.3 times the load induced pressure

## ORDERING CODES

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000023	MNDN-040-LLST-09-G38-N300	9:1	V1,V2,C1,C2: G 3/8" T: G 3/8"	150	100-300	119
MN000029	MNDN-040-LLST-03-G38-N300	3:1	V1,V2,C1,C2: G 3/8" T: G 3/8"	150	100-300	119

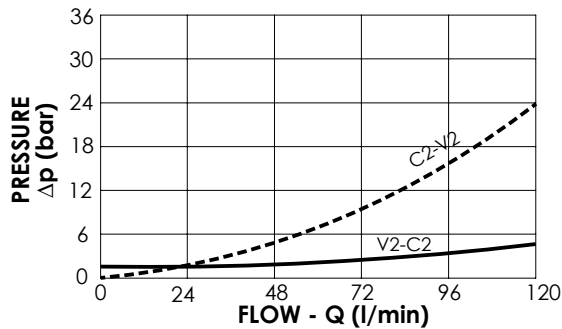
# MNDN-120-LLST

STABILIZED



## SPECIFICATIONS

Max. operating pressure:	300 bar
Rated flow:	120 l/min
Manifold:	Aluminium
Weight:	5,05 kg



## NOTES

Setting: at least 1.3 times the load induced pressure

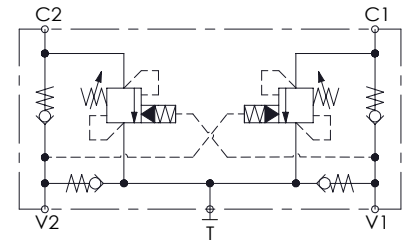
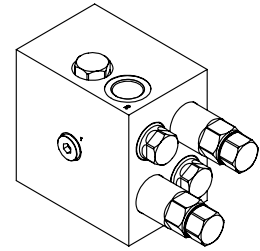
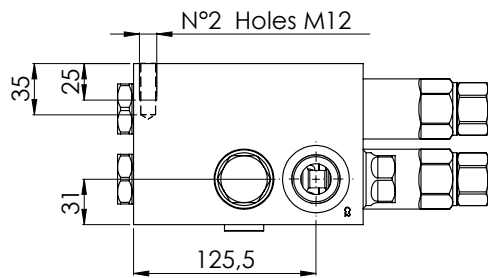
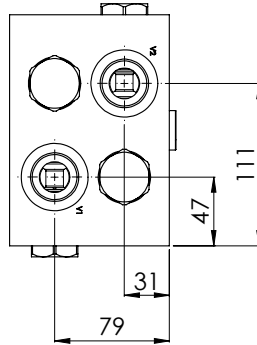
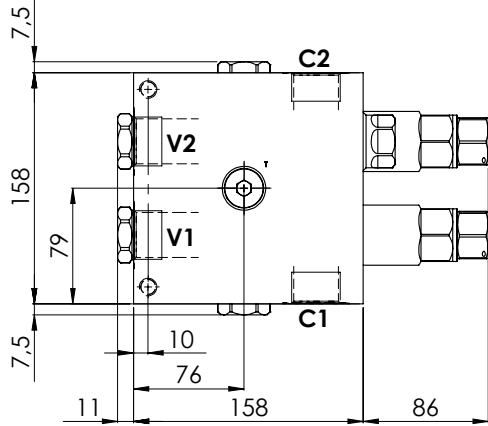
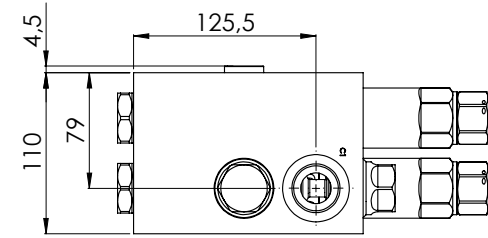
## ORDERING CODES

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000013	MNDN-120-LLST-08-G34-N300	8:1	V1,V2,C1,C2 : G3/4" T : G 1/2"	150	100-300	111
MN000012	MNDN-120-LLST-03-G34-N300	3:1	V1,V2,C1,C2 : G3/4" T : G 1/2"	150	70-210	73

MOTION CONTROL

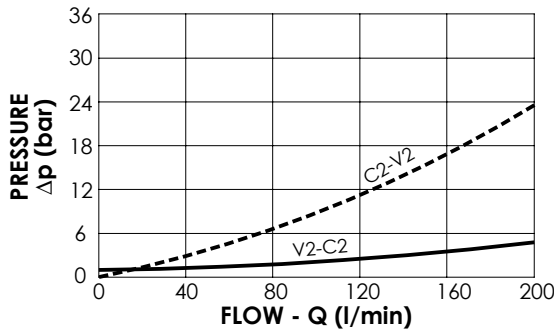
**MNDN-200-LLST**

STABILIZED



**SPECIFICATIONS**

Max. operating pressure:	300 bar
Rated flow:	200 l/min
Manifold:	Aluminium
Weight:	9,74 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

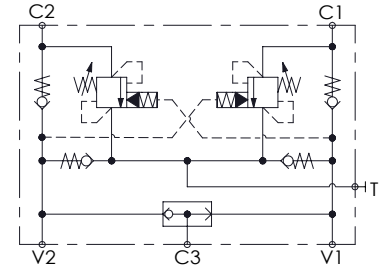
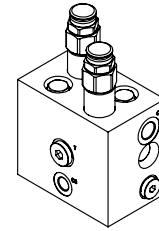
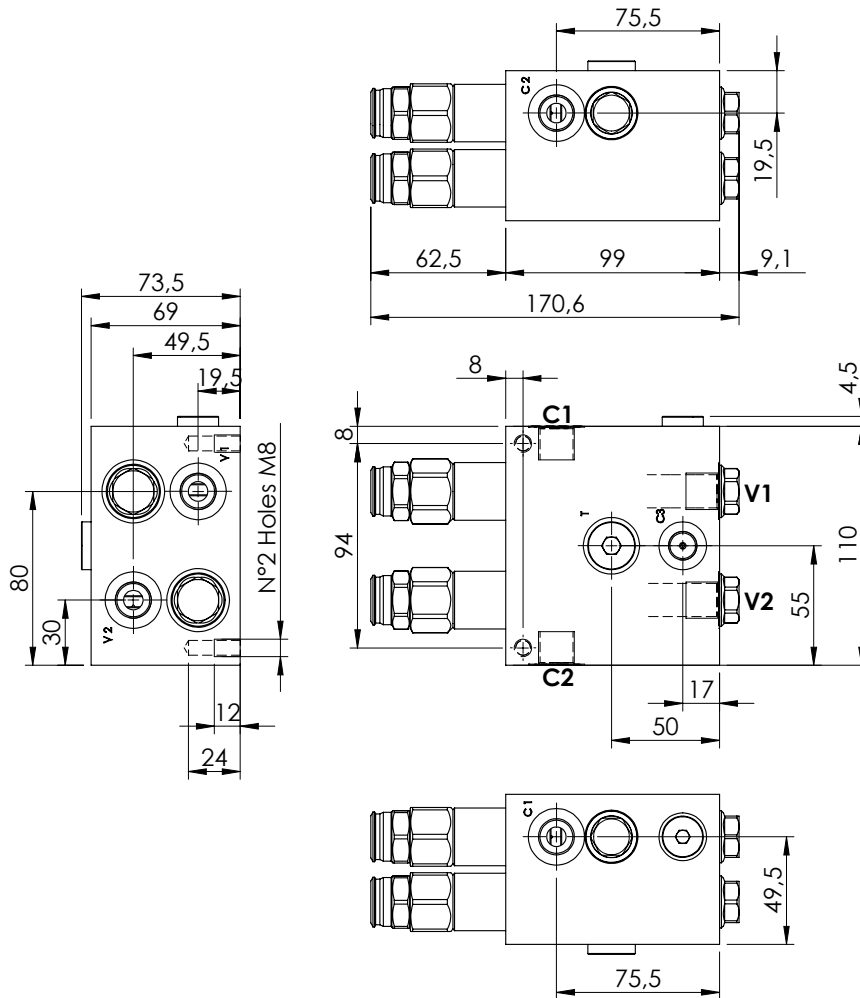
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000020	MNDN-200-LLST-08-G10-N300	8:1	V1,V2,C1,C2: G1" T: G1/2"	150	120-300	65



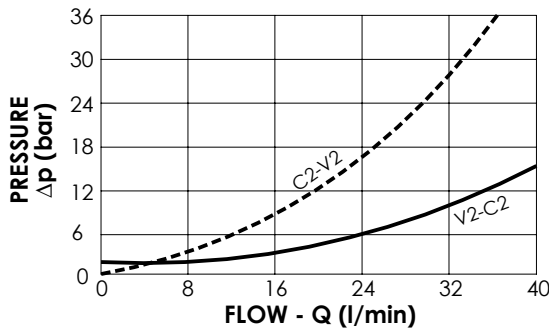
# MNDN-040-LLSV

STABILIZED  
WITH BRAKE RELEASE



## SPECIFICATIONS

Max. operating pressure:	300 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	2,66 kg



## NOTES

Setting: at least 1.3 times the load induced pressure

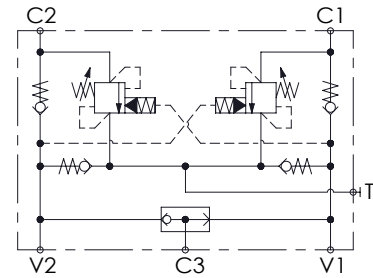
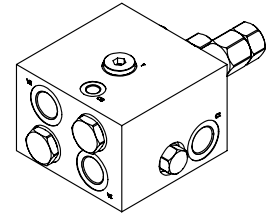
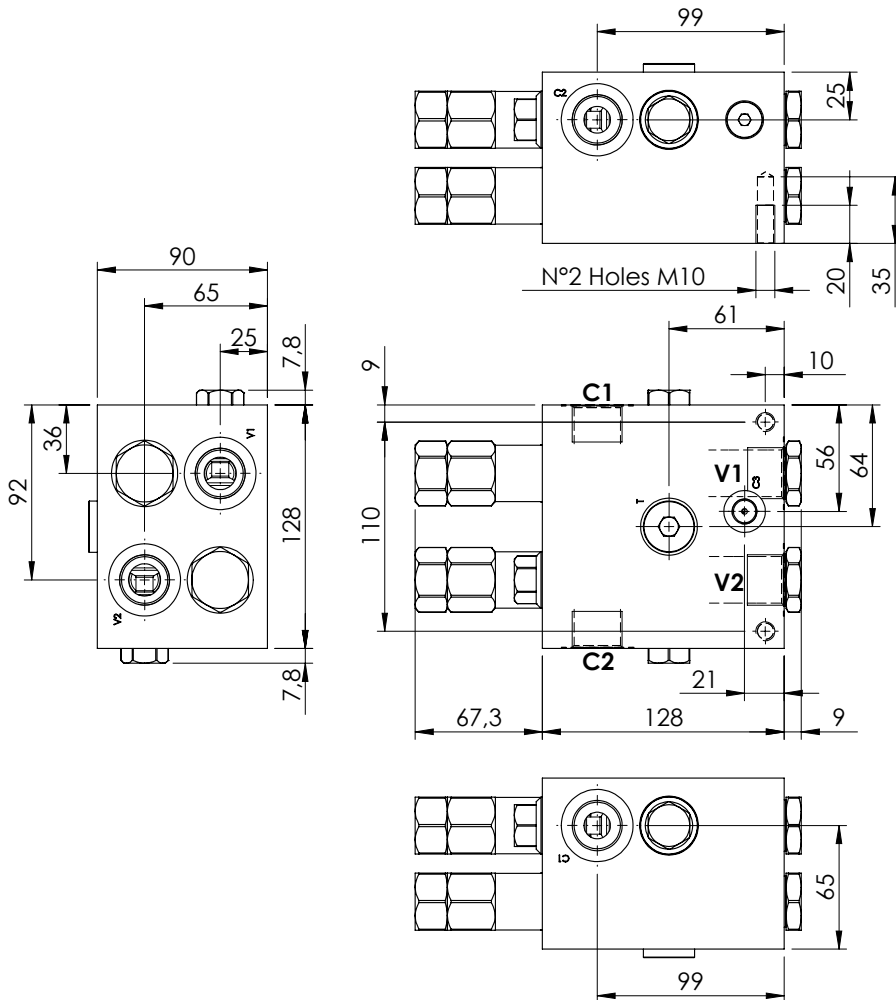
## ORDERING CODES

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000008	MNDN-040-LLSV-09-G38-N300	9:1	V1,V2,C1,C2,T: G 3/8" C3: G 1/4"	150	100-300	119
MN000032	MNDN-040-LLSV-09-G38-N200	9:1	V1,V2,C1,C2,T: G 3/8" C3: G 1/4"	150	70-150	63
MN000033	MNDN-040-LLSV-03-G38-N300	3:1	V1,V2,C1,C2,T: G 3/8" C3: G 1/4"	150	100-300	119
MN000034	MNDN-040-LLSV-03-G38-N200	3:1	V1,V2,C1,C2,T: G 3/8" C3: G 1/4"	150	70-150	63

MOTION CONTROL

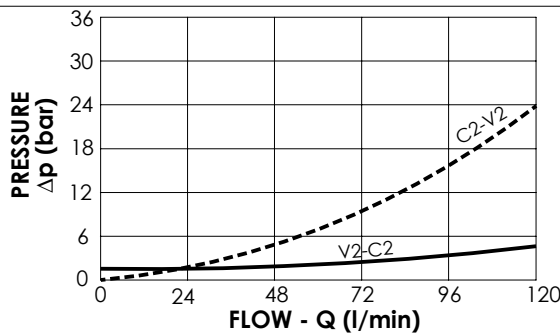
**MNDN-120-LLSV**

STABILIZED  
WITH BRAKE RELEASE



**SPECIFICATIONS**

Max. operating pressure:	300 bar
Rated flow:	120 l/min
Manifold:	Aluminium
Weight:	5,03 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

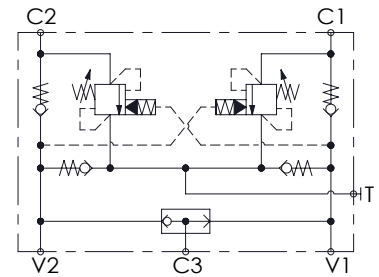
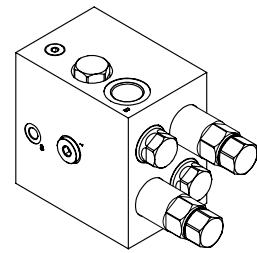
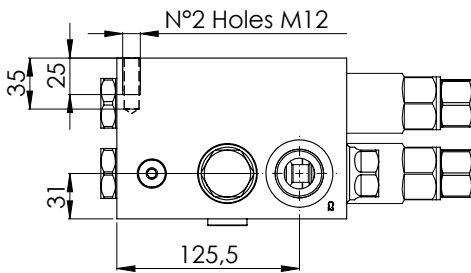
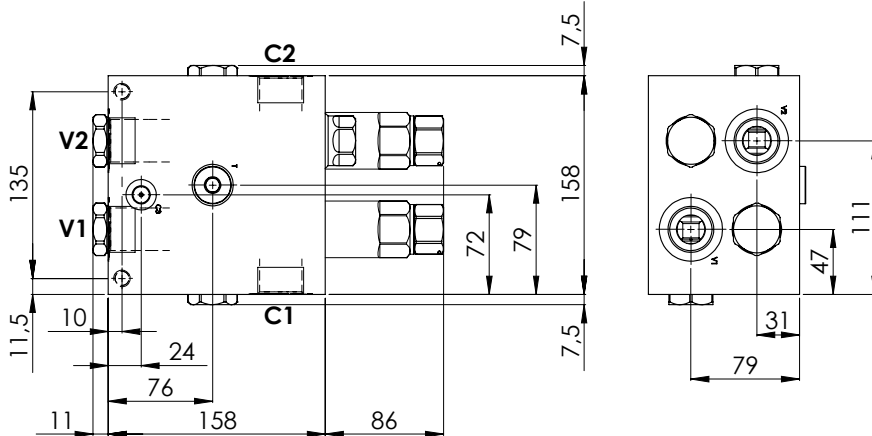
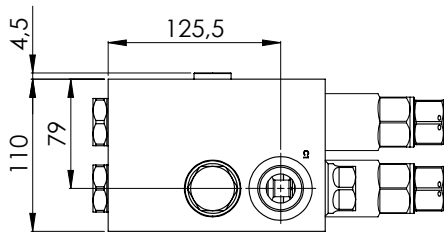
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000014	MNDN-120-LLSV-08-G34-N300	8:1	V1,V2,C1,C2: G 3/4" T: G 1/2"; C3: G 1/4"	150	100-300	111
MN000015	MNDN-120-LLSV-03-G34-N300	3:1	V1,V2,C1,C2: G 3/4" T: G 1/2"; C3: G 1/4"	150	100-300	111

MOTION CONTROL

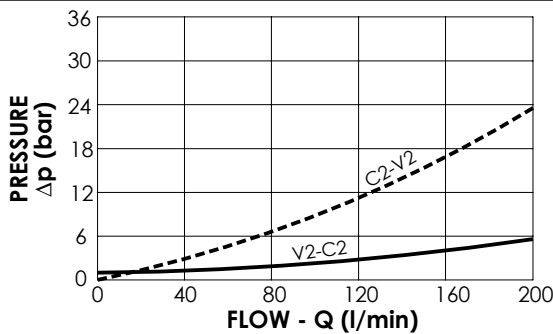
**MNDN-200-LLSV**

STABILIZED  
WITH BRAKE RELEASE



**SPECIFICATIONS**

Max. operating pressure:	300 bar
Rated flow:	200 l/min
Manifold:	Aluminium
Weight:	9,56 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

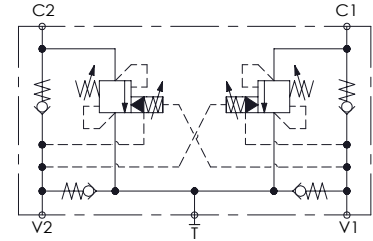
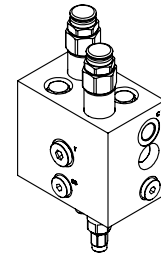
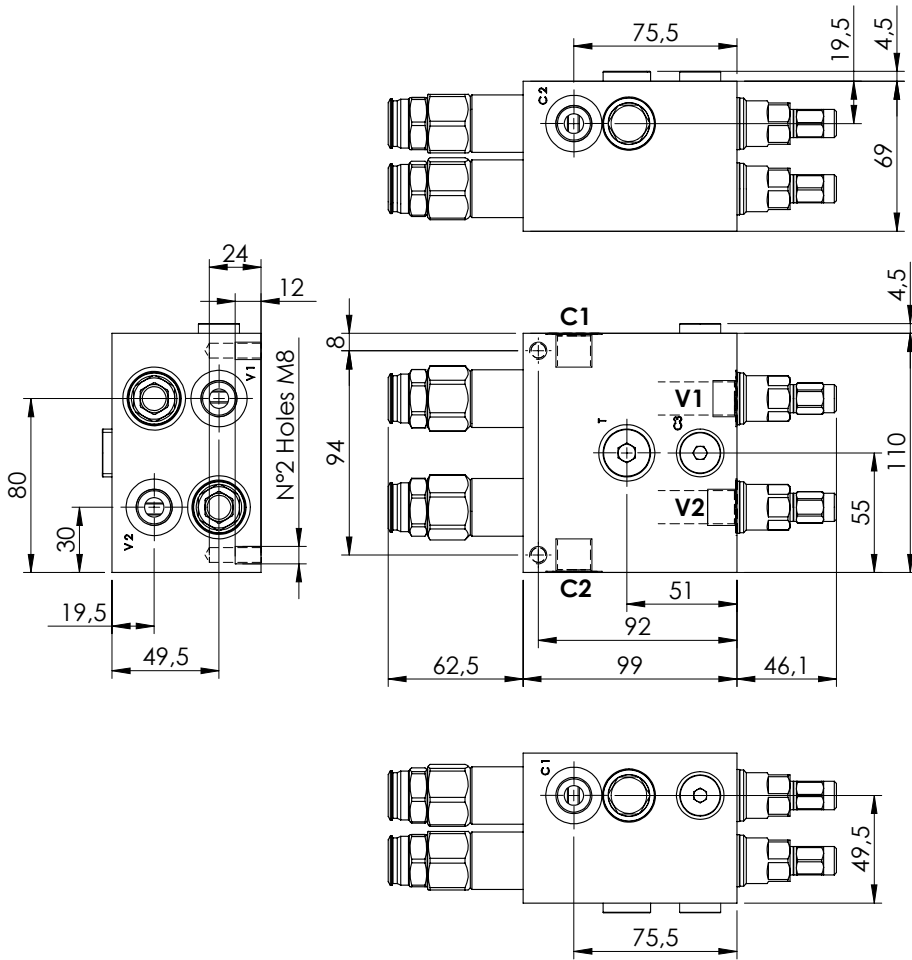
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000021	MNDN-200-LLSV-08-G10-N300	8:1	V1,V2,C1,C2: G1" T: G1/2"; C3: G 1/4"	150	120-300	65

MOTION CONTROL

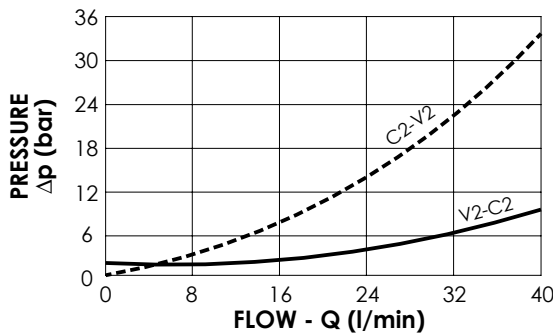
**MNDN-040-LLPT**

SOFT STOP  
DUAL SETTING



**SPECIFICATIONS**

Max. operating pressure:	300 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	2,79 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

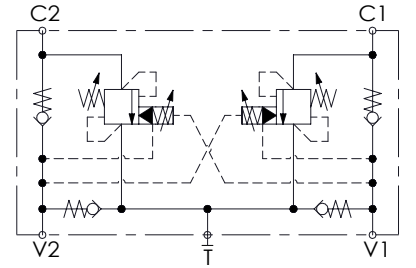
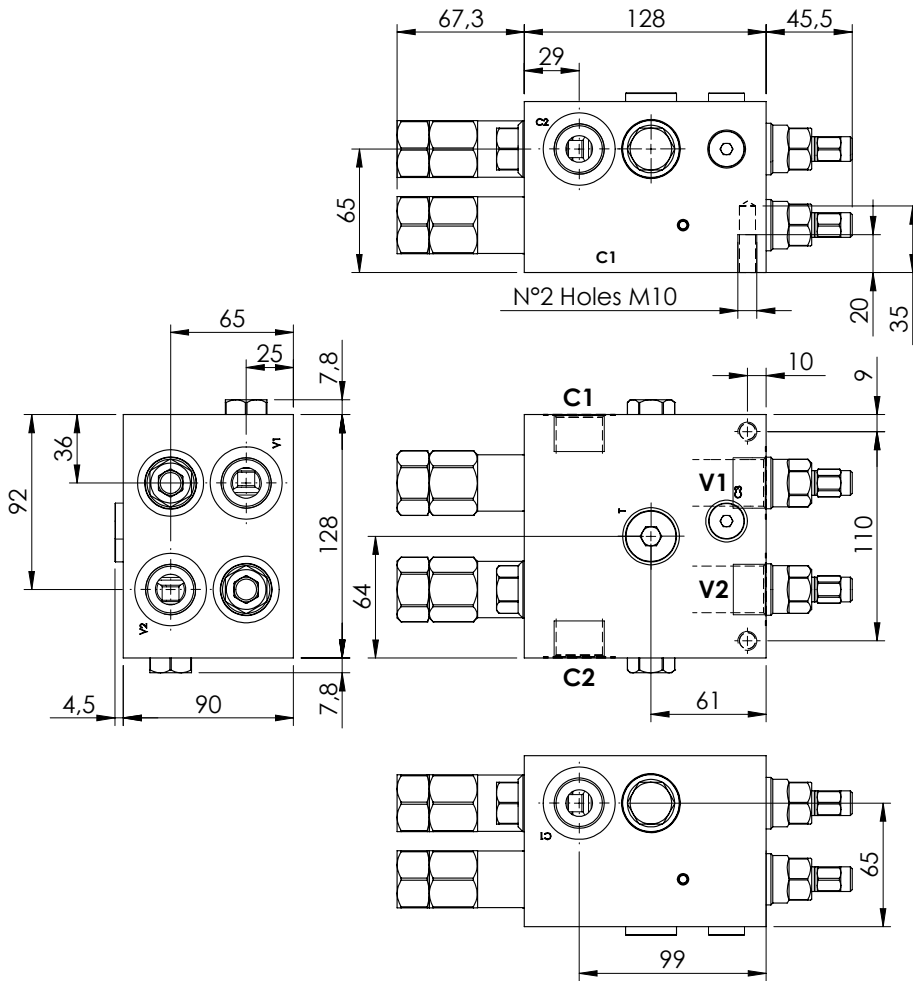
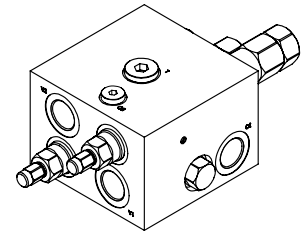
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000024	MNDN-040-LLPT-09-G38-N300	9:1	V1,V2,C1,C2: G3/8" T: G3/8"	Start: 300 Brake: 120	100-300	119

MOTION CONTROL

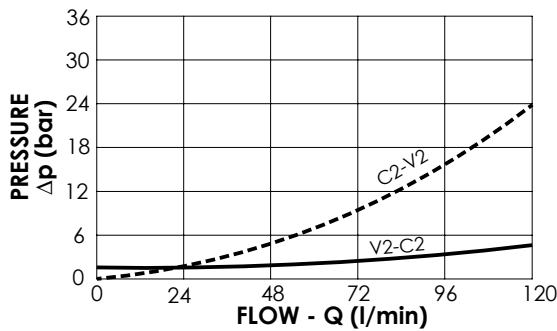
**MNDN-120-LLPT**

SOFT STOP  
DUAL SETTING



**SPECIFICATIONS**

Max. operating pressure:	300 bar
Rated flow:	120 l/min
Manifold:	Aluminium
Weight:	5,13 kg



**NOTES**

Setting: at least 1.3 times the load induced pressure

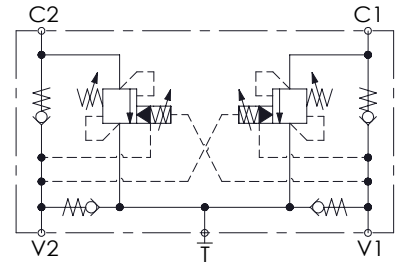
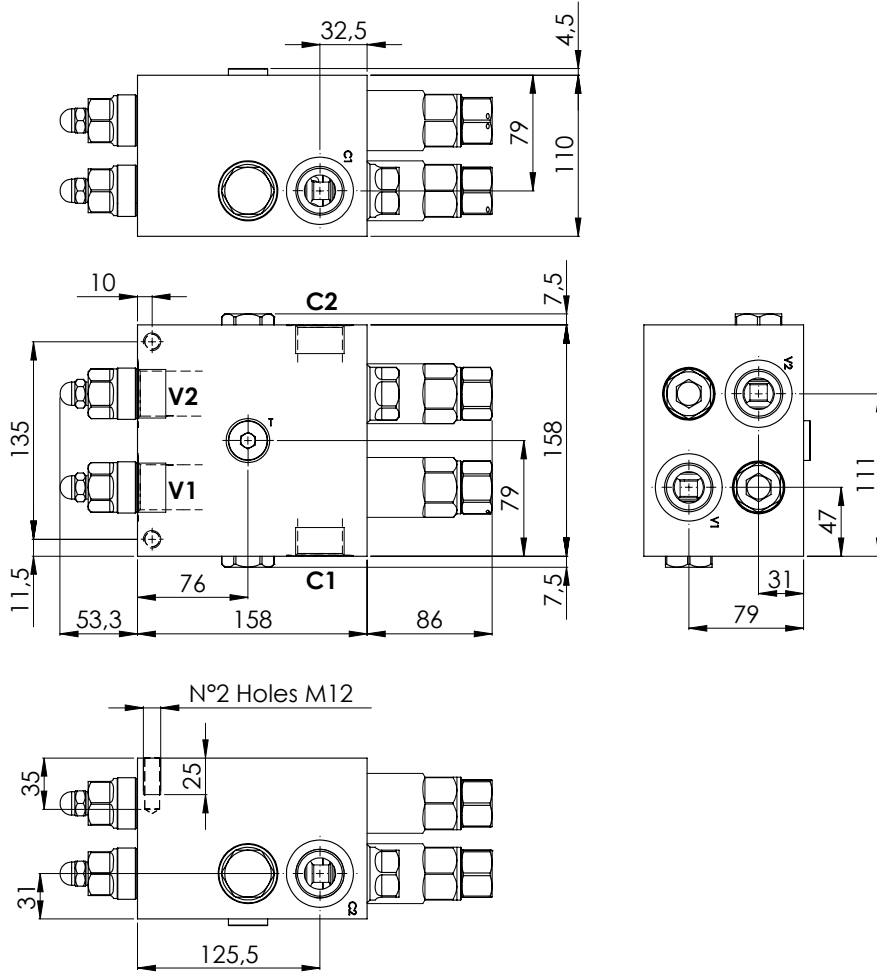
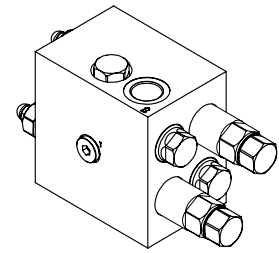
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000017	MNDN-120-LLPT-08-G34-N300	8:1	V1,V2,C1,C2 : G3/4" T : G 1/2"	Start: 300 Brake: 120	100-300	107
MN000047	MNDN-120-LLPT-03-G34-N300	3:1	V1,V2,C1,C2 : G3/4" T : G 1/2"	Start: 300 Brake: 120	100-300	107
MN000016	MNDN-120-LLPT-03-G34-N200	3:1	V1,V2,C1,C2 : G3/4" T : G 1/2"	Start: 180 Brake: 90	70-210	73

MOTION CONTROL

**MNDN-200-LLPT**

SOFT STOP  
DUAL SETTING

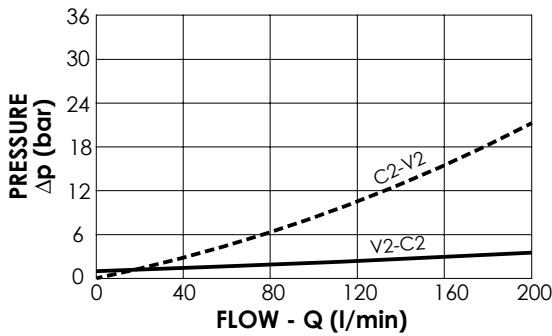


**SPECIFICATIONS**

Max. operating pressure:	300 bar
Rated flow:	200 l/min
Manifold:	Aluminium
Weight:	9,8 kg

**NOTES**

Setting: at least 1.3 times the load induced pressure



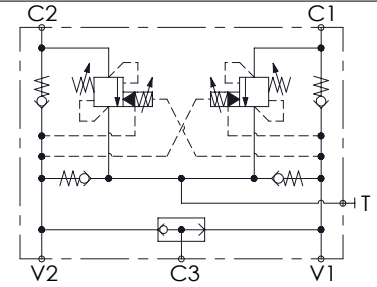
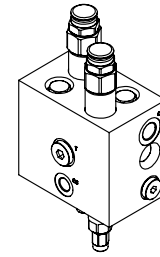
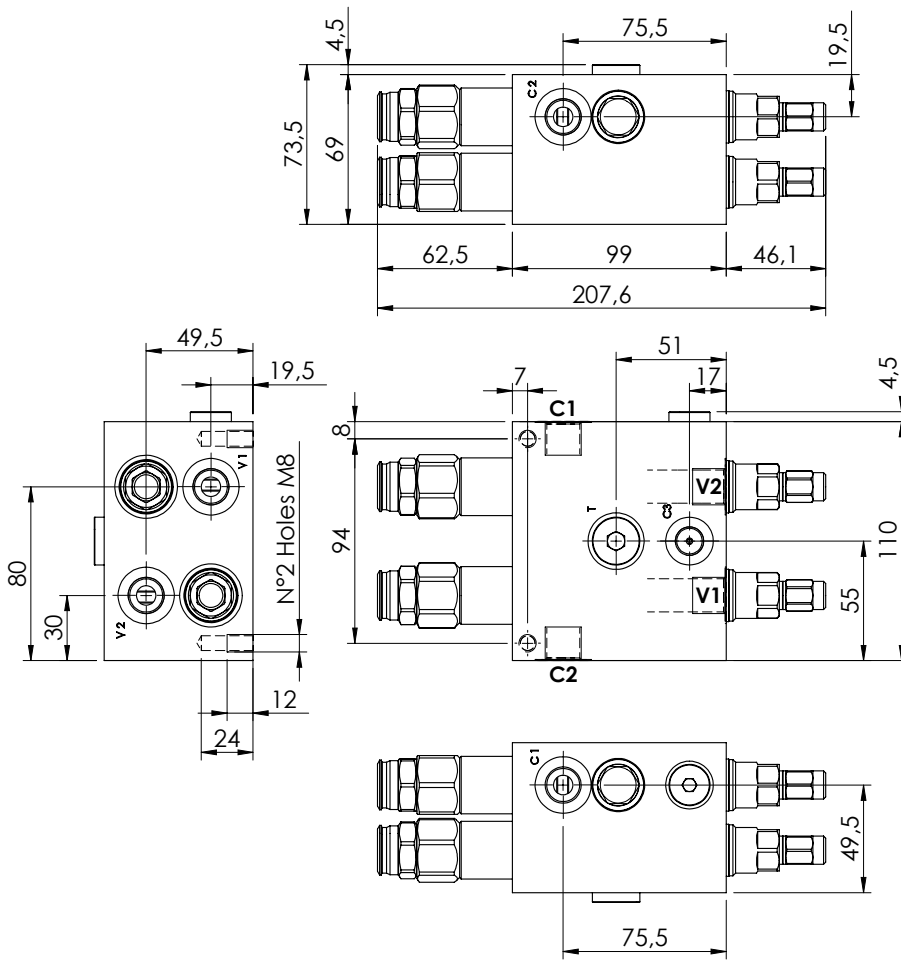
**ORDERING CODES**

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000004	MNDN-200-LLPT-08-G10-N300	8:1	V1,V2,C1,C2 : G1" T : G1/2"	Start: 300 Brake: 120	120-300	65

MOTION CONTROL

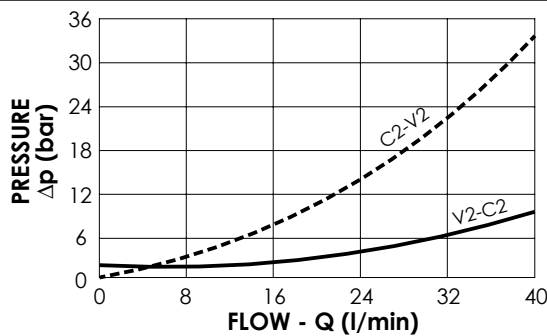
# MNDN-040-LLPV

**SOFT STOP  
DUAL SETTING  
WITH BRAKE RELEASE**



### SPECIFICATIONS

Max. operating pressure:	300 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	2,77 kg



### NOTES

Setting: at least 1.3 times the load induced pressure

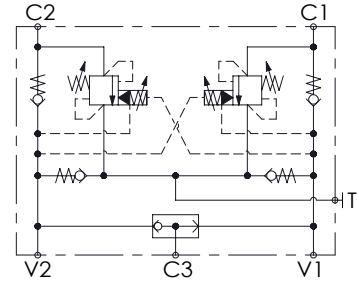
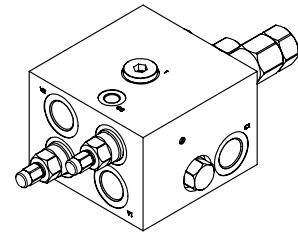
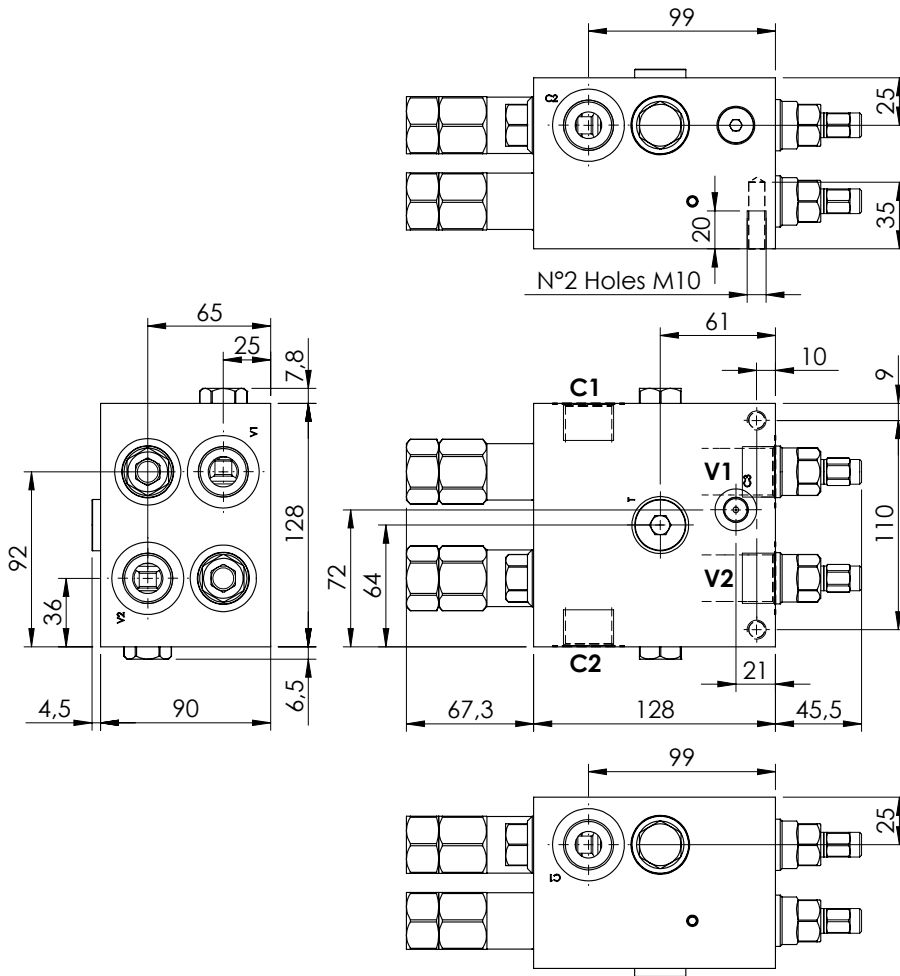
### ORDERING CODES

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000019	MNDN-040-LLPV-09-G38-N300	9:1	V1,V2,C1,C2,T: G 3/8" C3: G 1/4"	Start: 300 Brake: 120	100-300	119
MN000028	MNDN-040-LLPV-09-G38-N200	9:1	V1,V2,C1,C2,T: G 3/8" C3: G 1/4"	Start: 200 Brake: 90	60-210	63

MOTION CONTROL

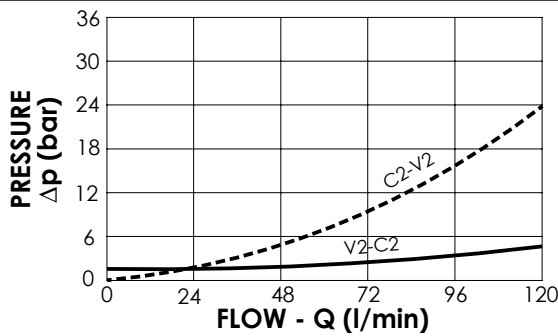
# MNDN-120-LLPV

**SOFT STOP  
DUAL SETTING  
WITH BRAKE RELEASE**



### SPECIFICATIONS

Max. operating pressure:	300 bar
Rated flow:	120 l/min
Manifold:	Aluminium
Weight:	5,11 kg



### NOTES

Setting: at least 1.3 times the load induced pressure

### ORDERING CODES

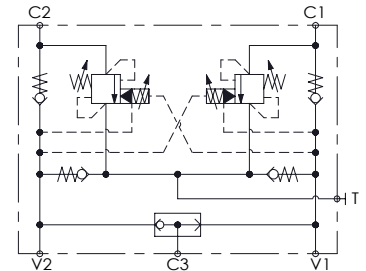
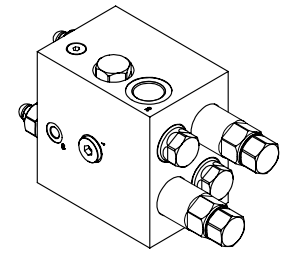
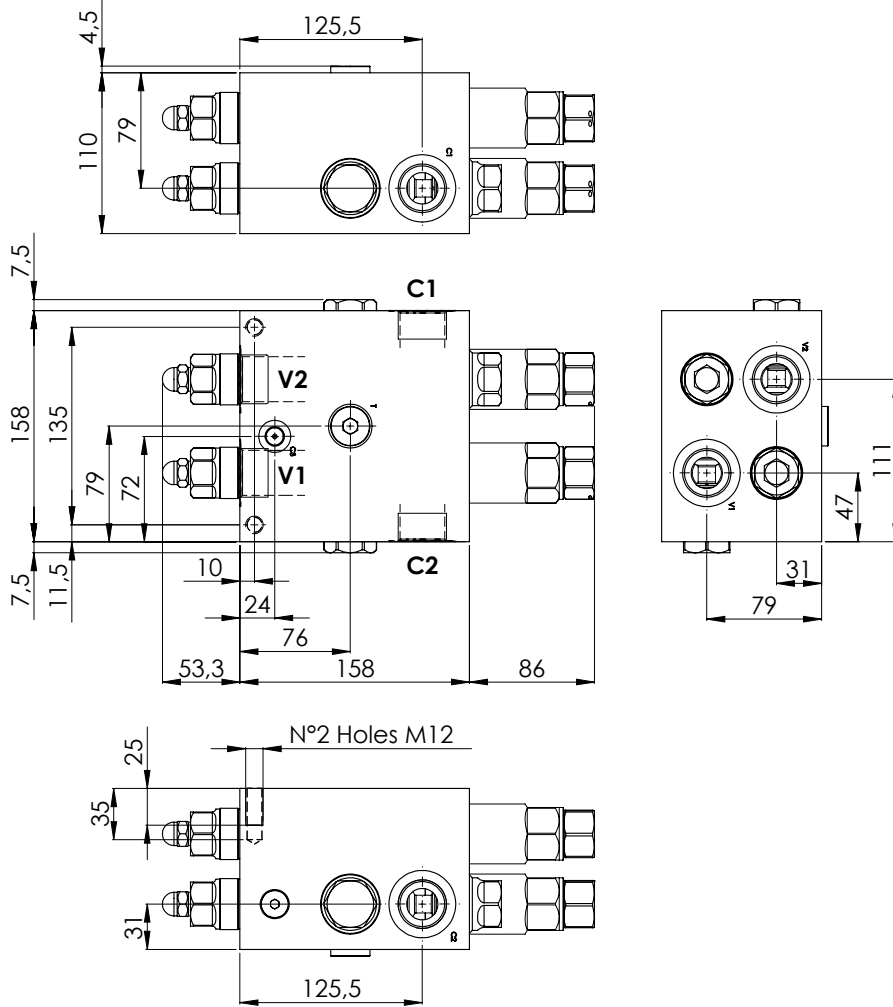
Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000010	MNDN-120-LLPV-08-G34-N300	8:1	V1,V2,C1,C2: G 3/4" T: G 1/2"; C3: G 1/4"	Start: 300 Brake: 120	100-300	111
MN000001	MNDN-120-LLPV-08-G34-N200	8:1	V1,V2,C1,C2: G 3/4" T: G 1/2"; C3: G 1/4"	Start: 180 Brake: 90	70-210	73
MN000018	MNDN-120-LLPV-03-G34-N300	3:1	V1,V2,C1,C2: G 3/4" T: G 1/2"; C3: G 1/4"	Start: 300 Brake: 120	100-300	111
MN000048	MNDN-120-LLPV-03-G34-N200	3:1	V1,V2,C1,C2: G 3/4" T: G 1/2"; C3: G 1/4"	Start: 180 Brake: 90	70-210	73



MOTION CONTROL

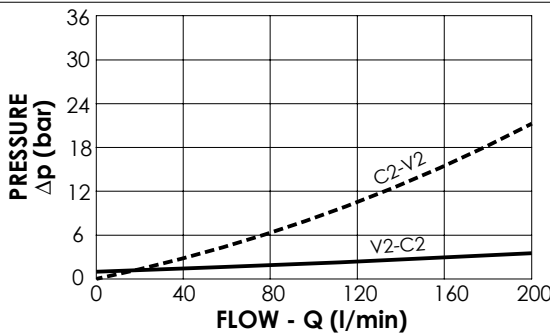
# MNDN-200-LLPV

SOFT STOP  
DUAL SETTING  
WITH BRAKE RELEASE



## SPECIFICATIONS

Max. operating pressure:	300 bar
Rated flow:	200 l/min
Manifold:	Aluminium
Weight:	9,81 kg



## NOTES

Setting: at least 1.3 times the load induced pressure

## ORDERING CODES

Quick code	Description	Pilot ratio	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MN000022	MNDN-200-LLPV-08-G10-N300	8:1	V1,V2,C1,C2 : G1" T : G1/2"; C3 : G 1/4"	Start: 300 Brake: 120	120-300	65



**SECTION 10**

**CHECK AND METERING VALVES**

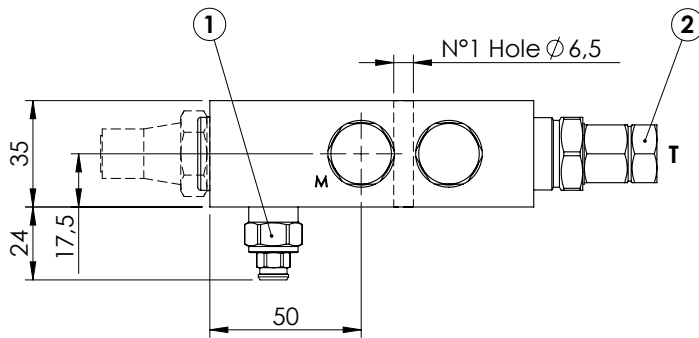
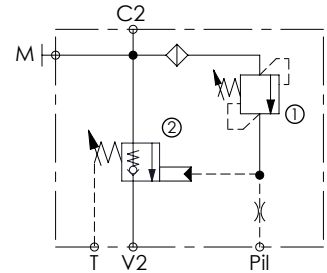
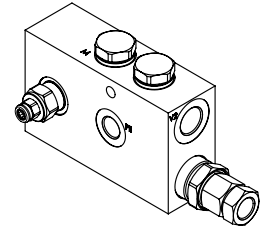
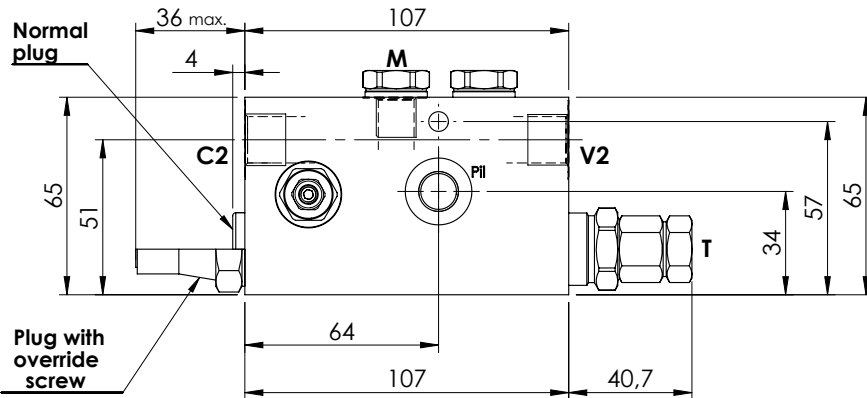


Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	MLST-040-ALGR	Right version	40	420	In line	G 3/8"	10.01.010
	MLST-040-ALGL	Left version	40	420	In line	G 3/8"	10.01.020
	MLST-100-ALGR	Right version	100	420	In line	G 1/2"	10.01.030
	MLST-100-ALGL	Left version	100	420	In line	G 1/2"	10.01.040
	MLST-150-ALGR	Right version	150	420	In line	G 3/4"	10.01.050
	MLST-150-ALGL	Left version	150	420	In line	G 3/4"	10.01.060
	MLST-100-AFGD	Right and left version	150	420	Flanged	1/2" SAE 6000	10.02.070
	MLST-150-AAGN	Right and left version	150	420	Flanged	1/2" SAE 6000	10.02.080
	MLST-200-AAGN	Right and left version	250	420	Flanged	3/4" SAE 6000	10.02.090
	MLST-200-AAGN	Right and left version	250	420	Flanged	1" SAE 6000	10.02.100
	MLST-300-AAGR	Right and left version	350	420	Flanged	3/4" SAE 6000	10.02.110
	MLST-300-AAGN	Right and left version	400	420	Flanged	1" SAE 6000	10.02.120
	MLST-300-AAGN	Right and left version	500	420	Flanged	1 1/4" SAE 6000	10.02.130
	MLST-500-AAGN	Right and left version	500	420	Flanged	3/4" SAE 6000	10.03.140
	MLST-500-AAGN	Right and left version	500	420	Flanged	1" SAE 6000	10.03.150
	MLST-550-AAGN	Right and left version	500	420	Flanged	1 1/4" SAE 6000	10.03.160
	MLST-700-AAGN	Right and left version	700	420	Flanged	1 1/4" SAE 6000	10.03.170
	MLST-700-AAGN	Right and left version	700	420	Flanged	1 1/2" SAE 6000	10.03.180
	MLST-1400-AAGN	Right and left version	1400	420	Flanged	1 1/2" SAE 6000	10.04.190
	MLST-1400-AAGR	Right version	1400	420	Flanged	2" SAE 6000	10.04.200
	MLST-1400-AAGL	Left version	1400	420	Flanged	2" SAE 6000	10.04.210
	MLST-1500-AAGR	Right version	1500	420	Flanged	2" SAE 6000 3" SAE 6000	10.04.220
	MLST-1500-AAGL	Left version	1500	420	Flanged	2" SAE 6000 3" SAE 6000	10.04.230

CHECK AND METERING VALVE

**MLST-040-ALGR**

IN LINE VERSION  
RIGHT VERSION

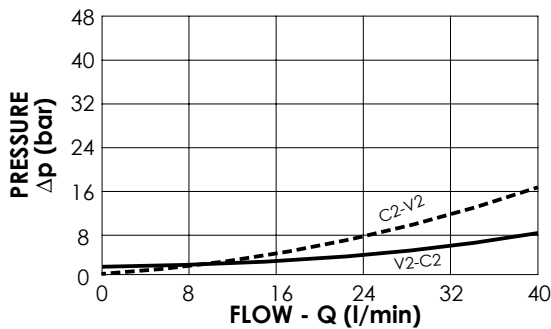


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	40 l/min
Manifold:	Steel
Weight:	1,86 kg

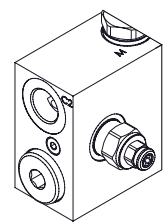
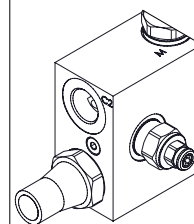
**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643



Plug with override screw

Normal plug



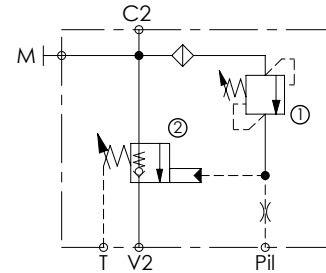
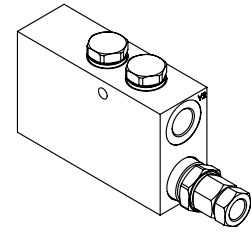
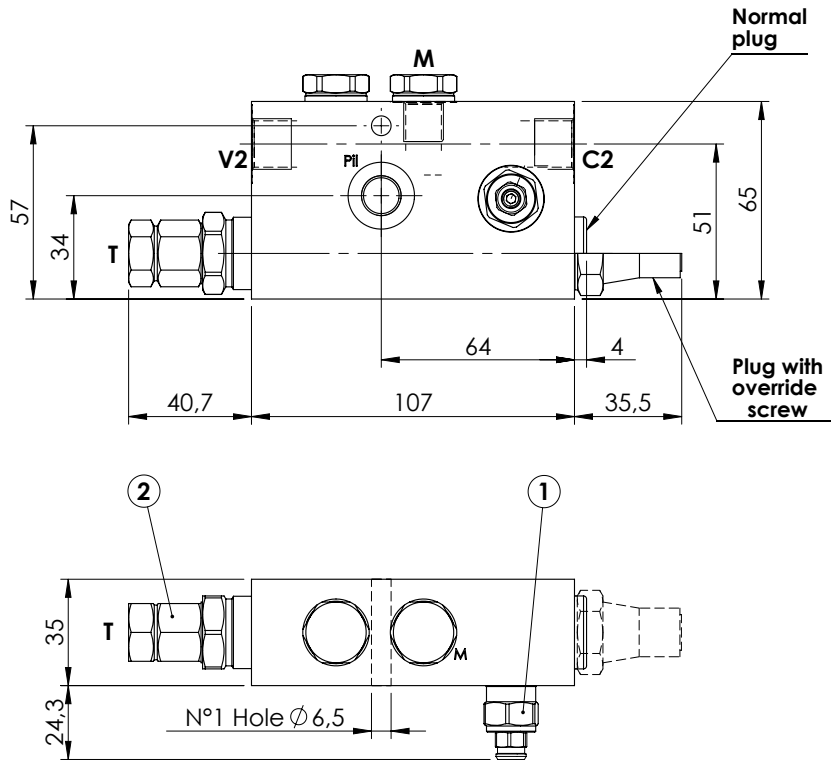
**ORDERING CODES**

Quick code	Description	Main ports size	Plug with override screw	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000143	MLST-040-ALGR-00-G38-N420	V2,C2: G 3/8" Pii,T,M: G 1/4"	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 6.7
ML000144	MLST-040-ALGR-00-G38-E420	V2,C2: G 3/8" Pii,T,M: G 1/4"	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 6.7
ML000185	MLST-040-ALGR-00-J38-N420	V2,C2: JIS 3/8" Pii,T,M: JIS 1/4"	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 6.7
ML000186	MLST-040-ALGR-00-J38-E420	V2,C2: JIS 3/8" Pii,T,M: JIS 1/4"	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 6.7

CHECK AND METERING VALVE

**MLST-040-ALGL**

IN LINE VERSION  
LEFT VERSION

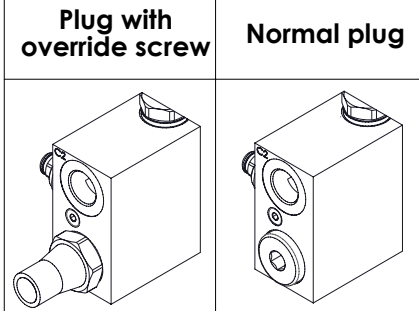
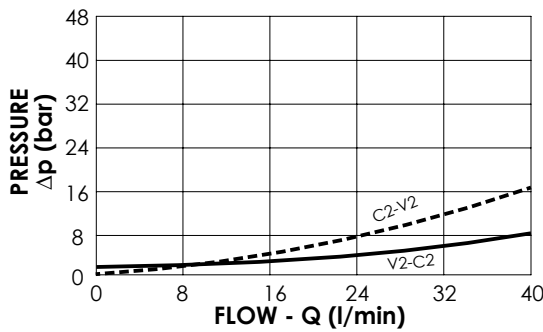


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	40 l/min
Manifold:	Steel
Weight:	1,86 kg

**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643



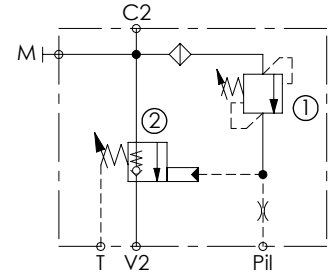
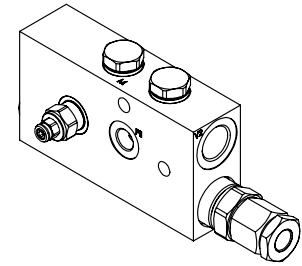
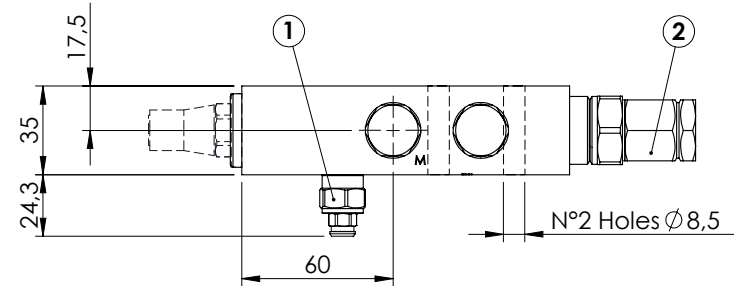
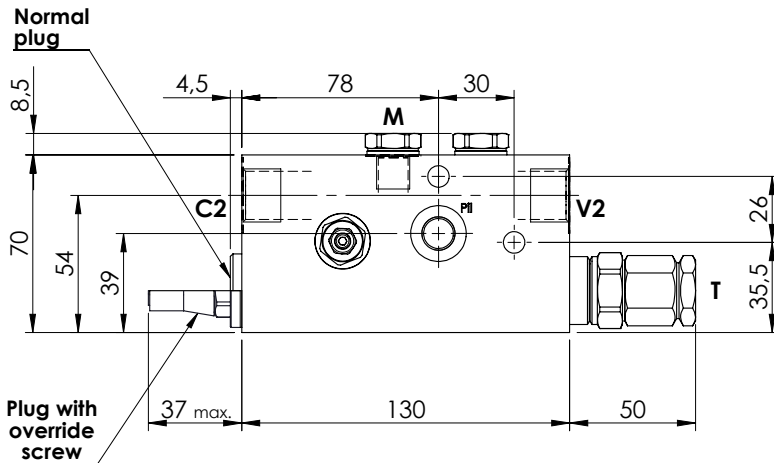
**ORDERING CODES**

Quick code	Description	Main ports size	Plug with override screw	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000145	MLST-040-ALGL-00-G38-N420	V2,C2: G 3/8" Pii,T,M: G 1/4"	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 6.7
ML000146	MLST-040-ALGL-00-G38-E420	V2,C2: G 3/8" Pii,T,M: G 1/4"	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 6.7
ML000187	MLST-040-ALGL-00-J38-N420	V2,C2: JIS 3/8" Pii,T,M: JIS 1/4"	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 6.7
ML000188	MLST-040-ALGL-00-J38-E420	V2,C2: JIS 3/8" Pii,T,M: JIS 1/4"	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 6.7

CHECK AND METERING VALVE

**MLST-100-ALGR**

IN LINE VERSION  
RIGHT VERSION

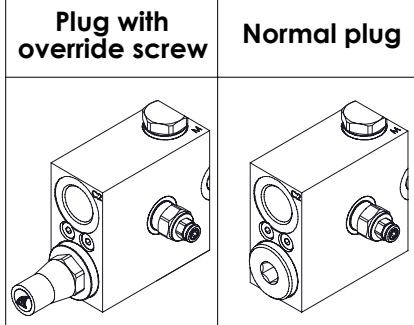
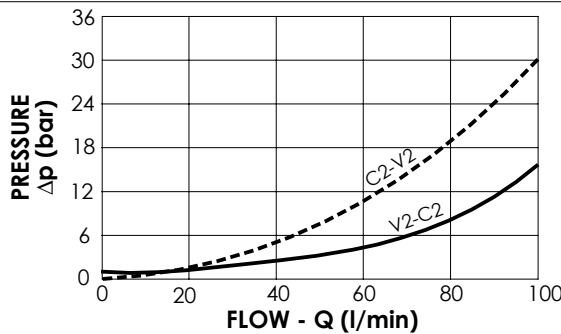


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	100 l/min
Manifold:	Steel
Weight:	2,39 kg

**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643



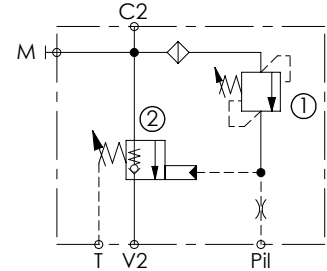
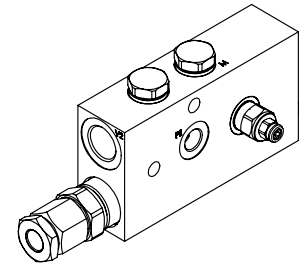
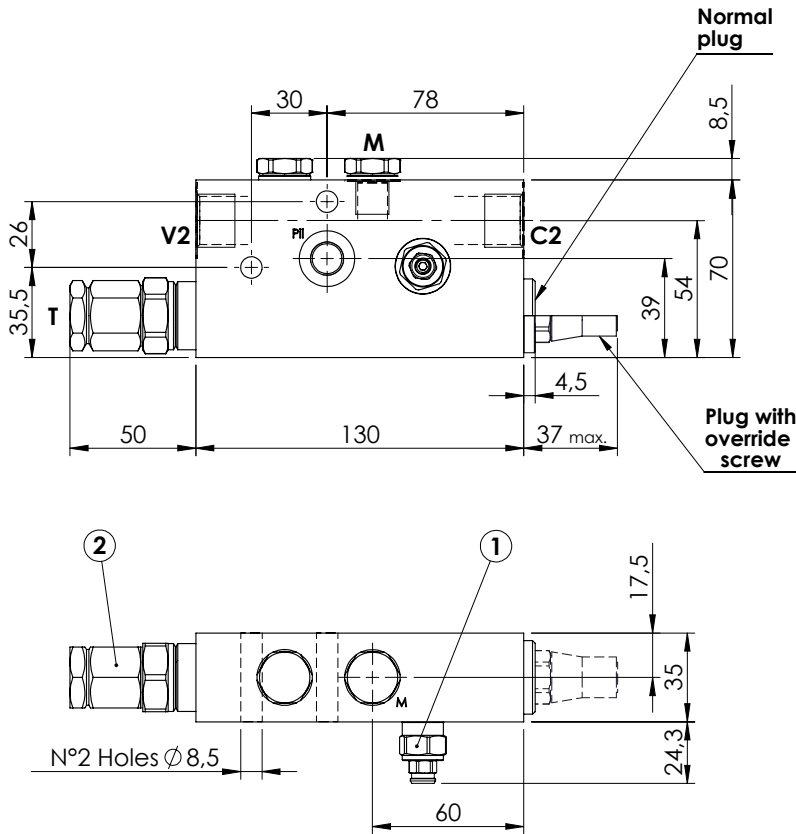
**ORDERING CODES**

Quick code	Description	Main ports size	Plug with override screw	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000134	MLST-100-ALGR-00-G12-N420	V2,C2: G 1/2" Pil, T, M: G 1/4"	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 7
ML000147	MLST-100-ALGR-00-G12-E420	V2,C2: G 1/2" Pil, T, M: G 1/4"	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 7
ML000135	MLST-100-ALGR-00-J12-N420	V2,C2: JIS 1/2" Pil, T, M: JIS 1/4"	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 7
ML000148	MLST-100-ALGR-00-J12-E420	V2,C2: JIS 1/2" Pil, T, M: JIS 1/4"	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 7

CHECK AND METERING VALVE

**MLST-100-ALGL**

IN LINE VERSION  
LEFT VERSION

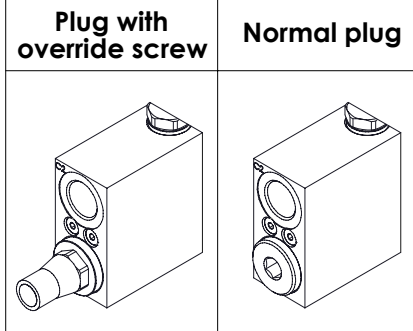
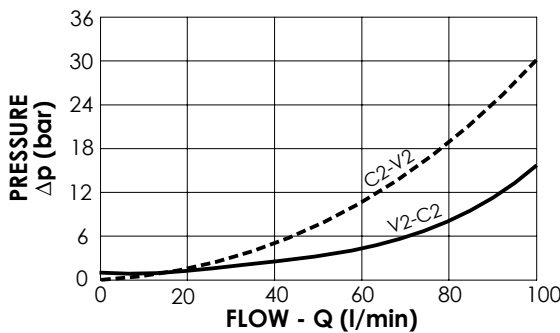


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	100 l/min
Manifold:	Steel
Weight:	2,39 kg

**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643



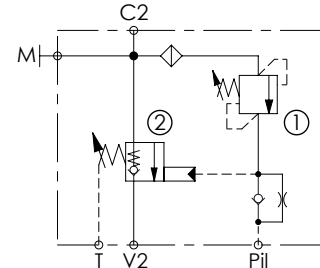
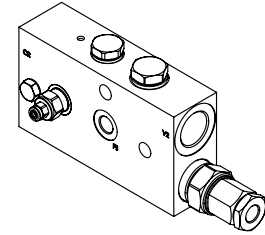
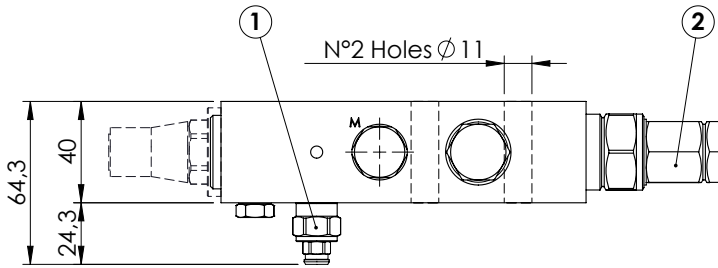
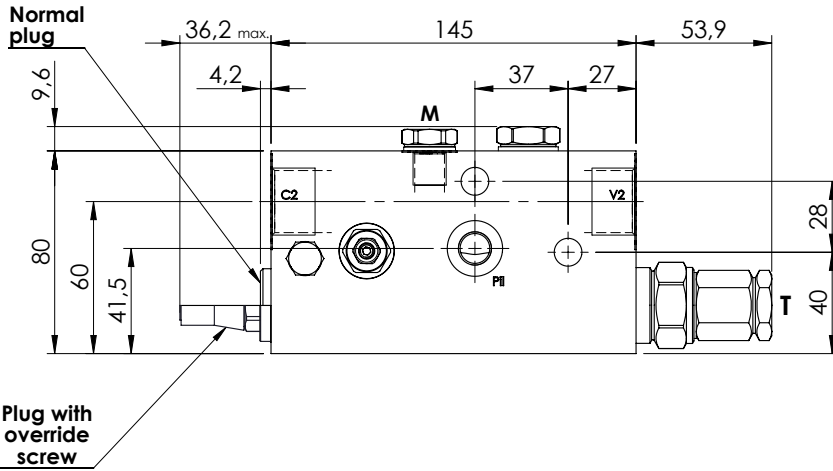
**ORDERING CODES**

Quick code	Description	Main ports size	Plug with override screw	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000136	MLST-100-ALGL-00-G12-N420	V2,C2: G 1/2" Pil, T, M: G 1/4"	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 7
ML000149	MLST-100-ALGL-00-G12-E420	V2,C2: G 1/2" Pil, T, M: G 1/4"	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 7
ML000137	MLST-100-ALGL-00-J12-N420	V2,C2: JIS 1/2" Pil, T, M: JIS 1/4"	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 7
ML000150	MLST-100-ALGL-00-J12-E420	V2,C2: JIS 1/2" Pil, T, M: JIS 1/4"	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 7

CHECK AND METERING VALVE

**MLST-150-ALGR**

IN LINE VERSION  
RIGHT VERSION

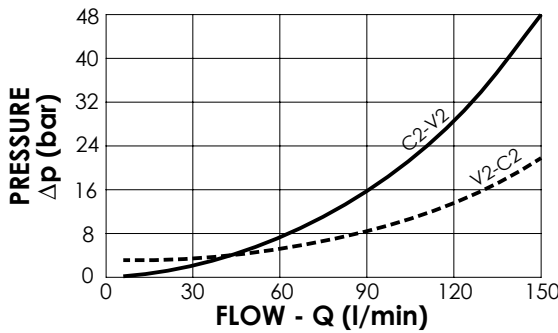


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	3,35 kg

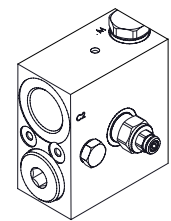
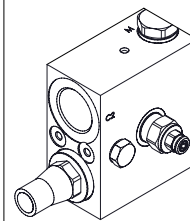
**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643



Plug with override screw

Normal plug



**ORDERING CODES**

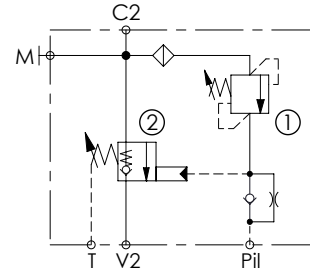
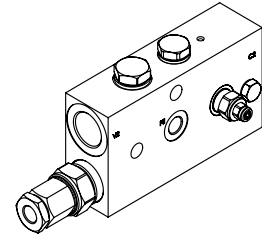
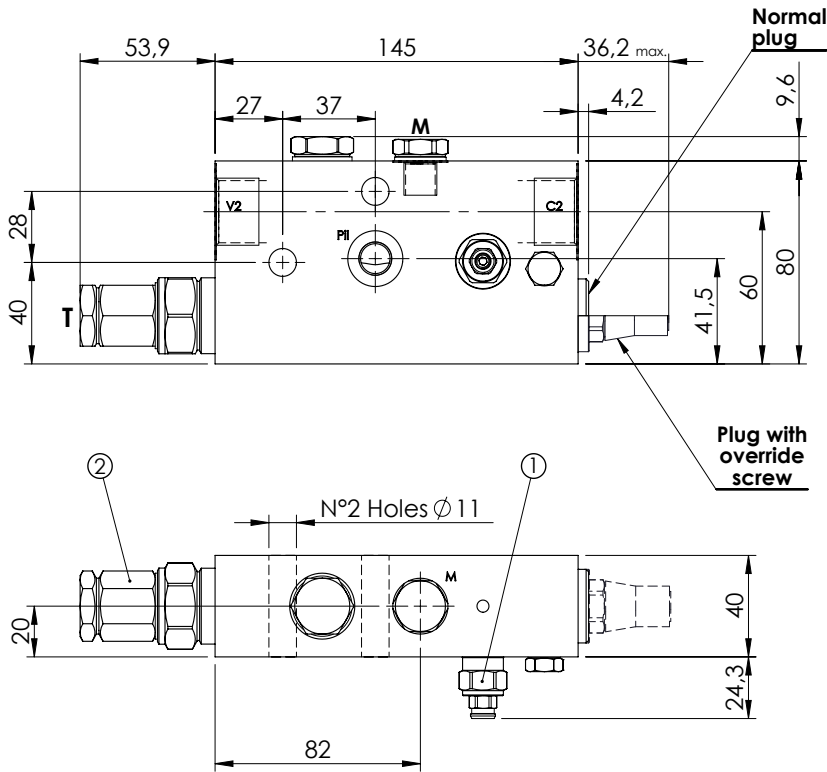
Quick code	Description	Main ports size	Plug with override screw	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000126	MLST-150-ALGR-00-G34-N420	V2,C2: <b>G 3/4"</b> P1,T,M: <b>G 1/4"</b>	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8
ML000011	MLST-150-ALGR-00-G34-E420	V2,C2: <b>G 3/4"</b> P1,T,M: <b>G 1/4"</b>	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8
ML000122	MLST-150-ALGR-00-U11-N420	V2,C2: <b>1 1/16-12 UNF</b> P1,T: <b>9/16-18 UNF</b> M: <b>G 1/4"</b>	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8
ML000029	MLST-150-ALGR-00-U11-E420	V2,C2: <b>1 1/16-12 UNF</b> P1,T: <b>9/16-18 UNF</b> M: <b>G 1/4"</b>	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8
ML000123	MLST-150-ALGR-00-J34-N420	V2,C2: <b>3/4" JIS</b> P1,T,M: <b>1/4" JIS</b>	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8
ML000105	MLST-150-ALGR-00-J34-E420	V2,C2: <b>3/4" JIS</b> P1,T,M: <b>1/4" JIS</b>	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8



CHECK AND METERING VALVE

**MLST-150-ALGL**

IN LINE VERSION  
LEFT VERSION

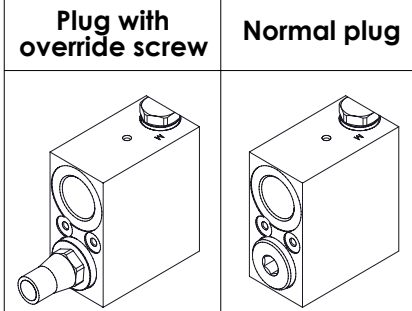
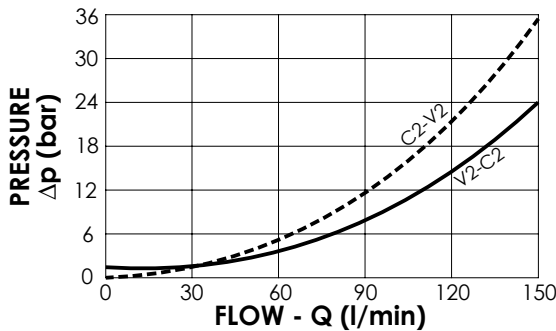


**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	3,35 kg

**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643



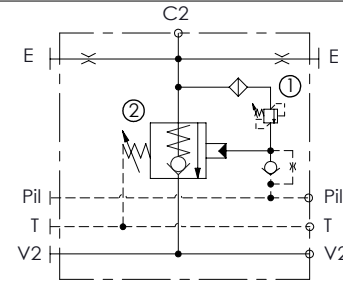
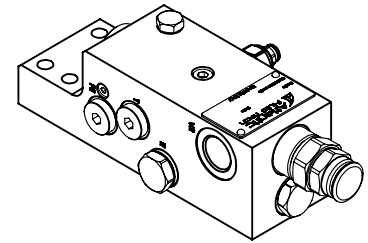
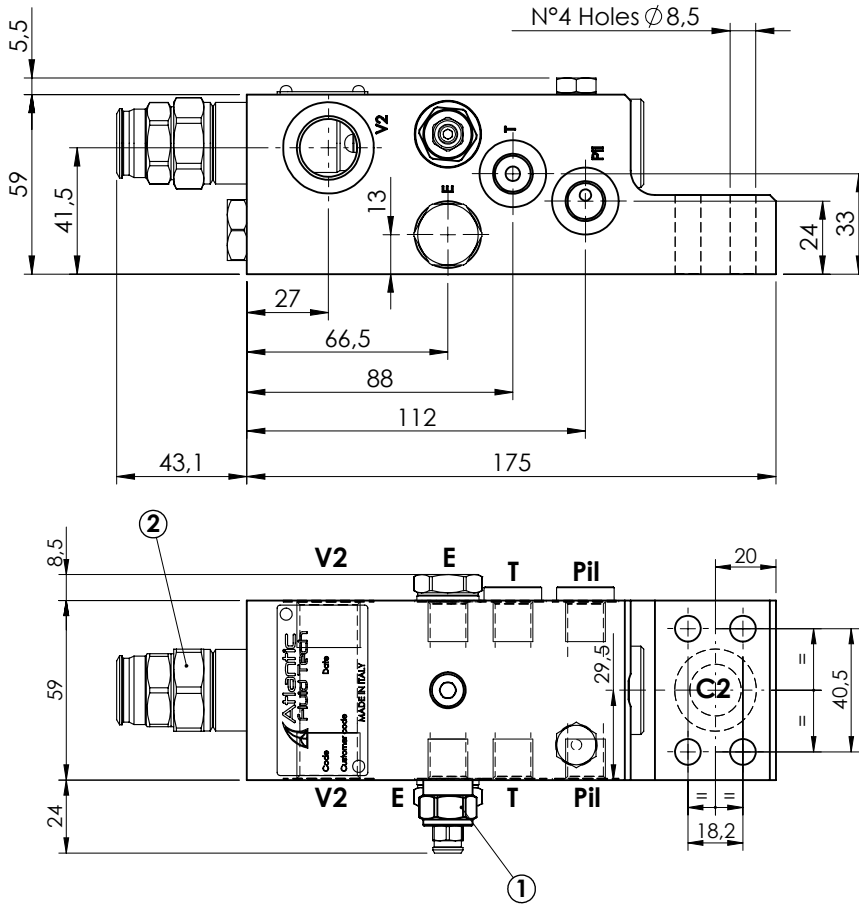
**ORDERING CODES**

Quick code	Description	Main ports size	Plug with override screw	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000121	MLST-150-ALGL-00-G34-N420	V2,C2: G 3/4" Pii,T,M: G 1/4"	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8
ML000010	MLST-150-ALGL-00-G34-E420	V2,C2: G 3/4" Pii,T,M: G 1/4"	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8
ML000124	MLST-150-ALGL-00-U11-N420	V2,C2: 1 1/16-12 UNF Pii,T: 9/16-18 UNF M: G 1/4"	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8
ML000030	MLST-150-ALGL-00-U11-E420	V2,C2: 1 1/16-12 UNF Pii,T: 9/16-18 UNF M: G 1/4"	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8
ML000125	MLST-150-ALGL-00-J34-N420	V2,C2: 3/4" JIS Pii,T,M: 1/4" JIS	No	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8
ML000104	MLST-150-ALGL-00-J34-E420	V2,C2: 3/4" JIS Pii,T,M: 1/4" JIS	Yes	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 8

CHECK AND METERING VALVE

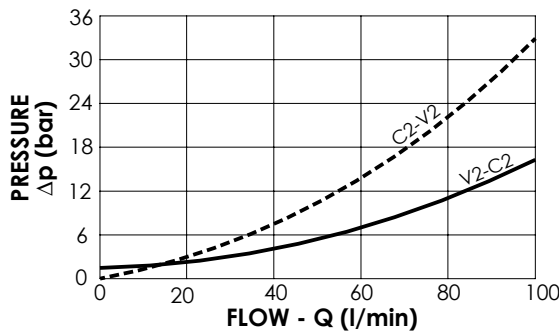
**MLST-100-AAGN**

FLANGED TYPE  
1/2" SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	100 l/min
Manifold:	Steel
Weight:	3,87 kg



**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643

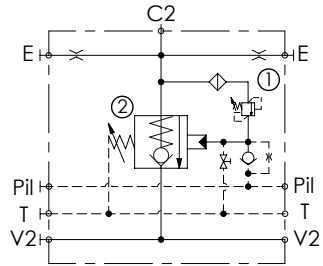
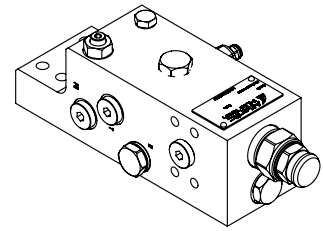
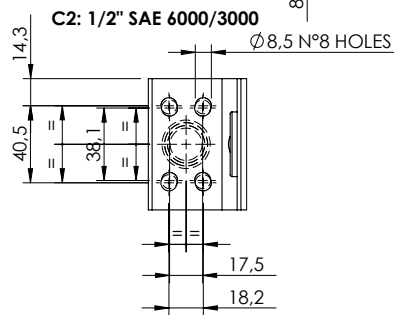
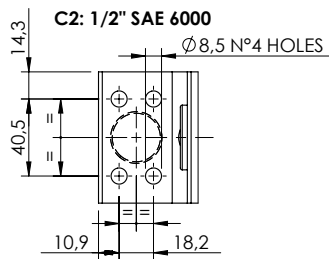
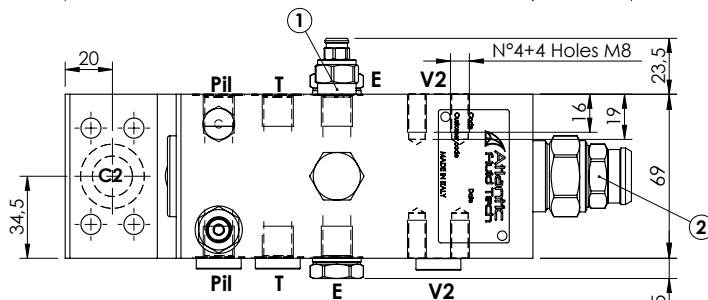
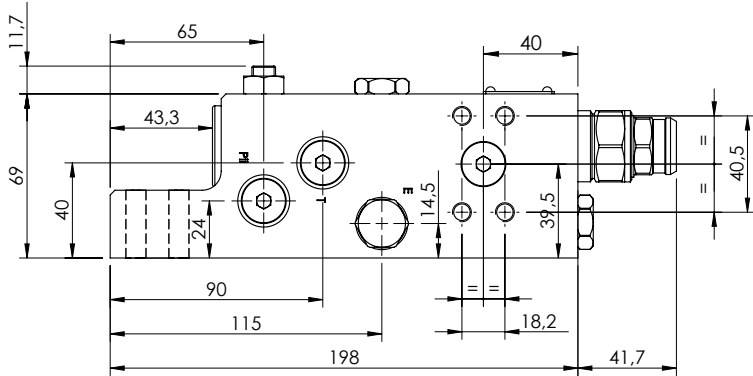
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000130	MLST-100-AAGN-00-S12-N420	C2: 1/2" SAE 6000 V2: G 1/2" E, Pil, T: G 1/4	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 6

CHECK AND METERING VALVE

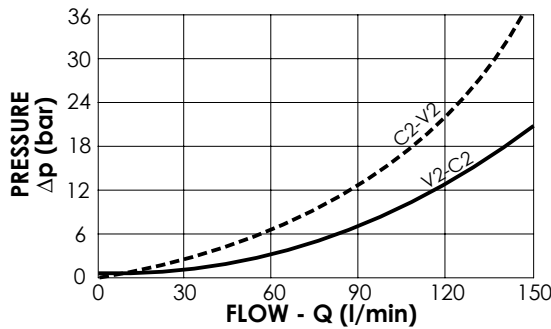
**MLST-150-AAGN**

FLANGED TYPE  
1/2" SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	6,13 kg



**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643

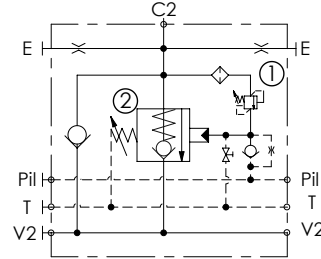
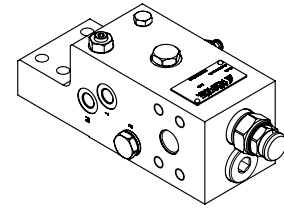
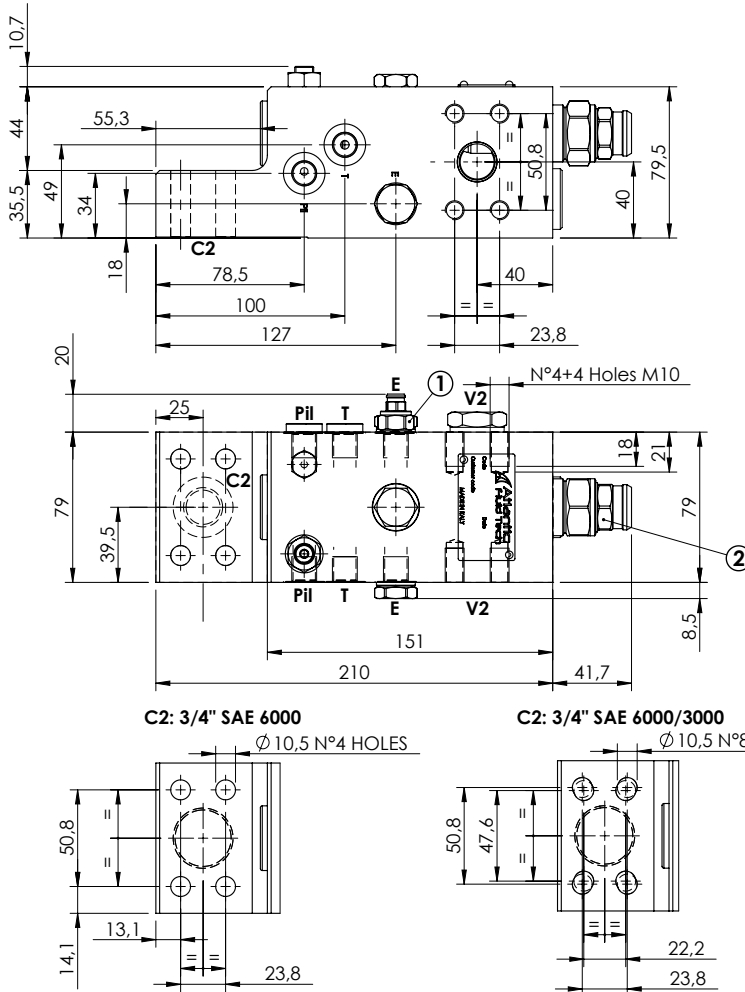
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000082	MLST-150-AAGN-00-S12-N420	V2,C2: 1/2" SAE 6000 E,P11,T: G 1/4"	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 5
ML000083	MLST-150-ASGN-00-S12-N420	C2: 1/2" SAE 6000/3000 V2: 1/2" SAE 6000 E,P11,T: G 1/4"	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 5

CHECK AND METERING VALVE

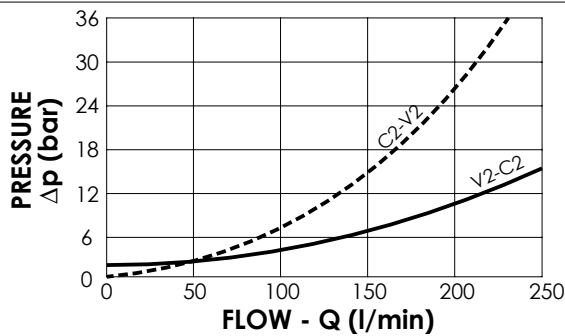
**MLST-200-AAGN**

FLANGED TYPE  
3/4" SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	250 l/min
Manifold:	Steel
Weight:	8,15 kg



**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643

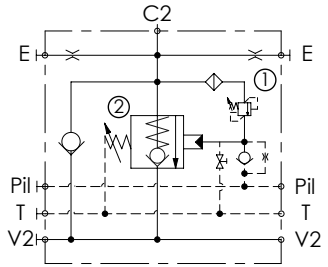
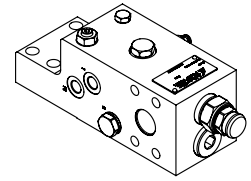
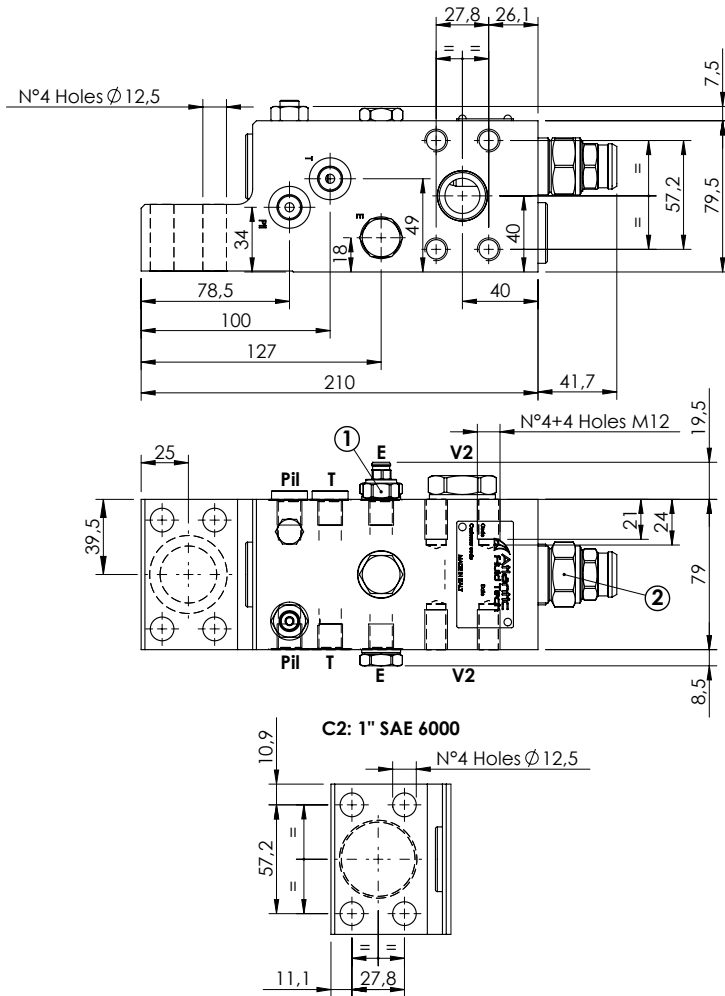
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000075	MLST-200-AAGN-00-S34-N420	V2,C2: 3/4" SAE 6000 E,Pil,T: G 1/4"	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 5
ML000076	MLST-200-AAUD-00-S34-N420	V2,C2: 3/4" SAE 6000 E,Pil,T: 9/16-18 UNF-2B	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 5
ML000091	MLST-200-ASGN-00-S34-N420	V2: 3/4" SAE 6000 C2: 3/4" SAE 6000/3000 E,Pil,T: G 1/4"	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 5
ML000112	MLST-200-ASJN-00-S34-N420	V2,C2: 3/4" SAE 6000 E,Pil,T: 1/4" JIS	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 5

CHECK AND METERING VALVE

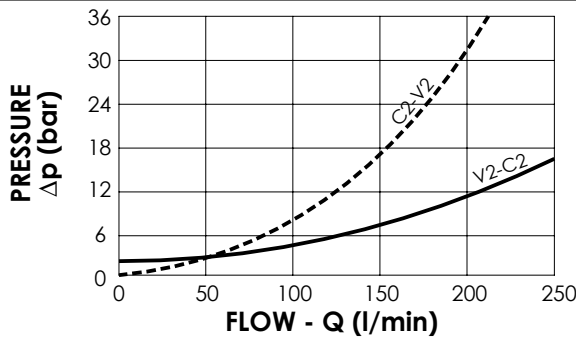
**MLST-200-AAGN**

FLANGED TYPE  
1" SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	250 l/min
Manifold:	Steel
Weight:	8 kg



**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643

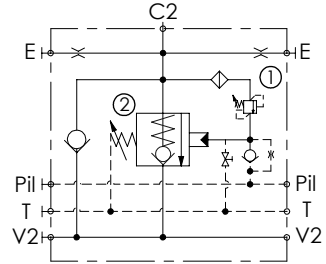
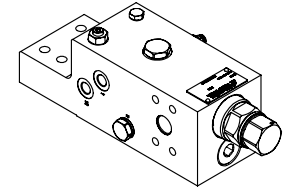
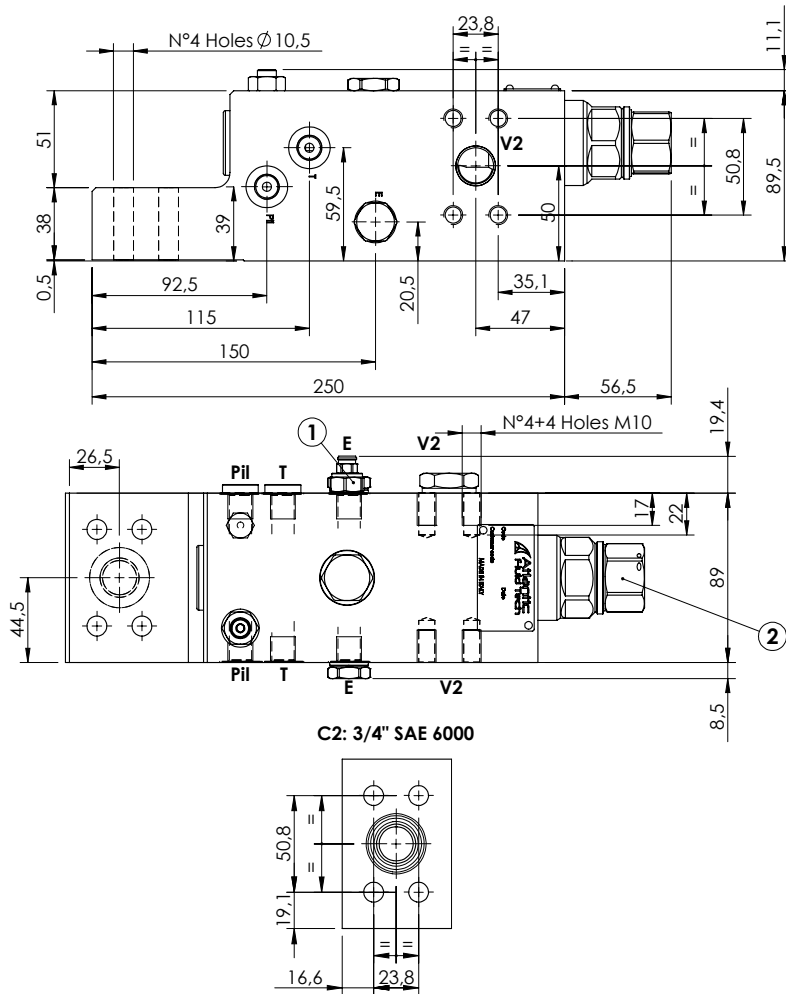
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000138	MLST-200-AAGN-00-S10-N420	V2,C2: 1" SAE 6000 E,Pil,T: G 1/4"	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 5

**CHECK AND METERING VALVE**

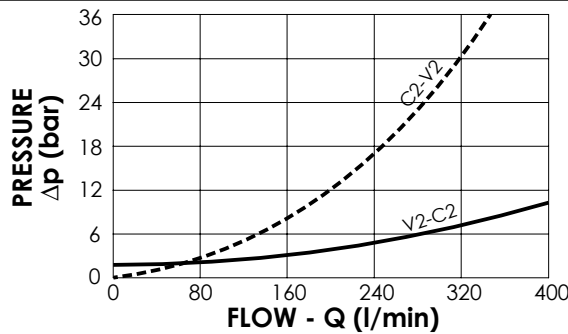
**MLST-300-AAGR**

**FLANGED TYPE  
3/4" SAE 6000**



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	350 l/min
Manifold:	Steel
Weight:	12,27 kg



**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643

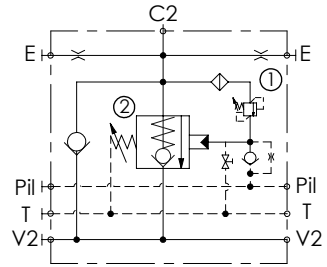
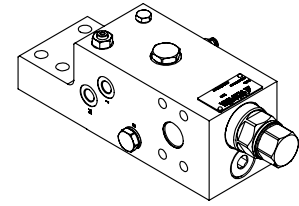
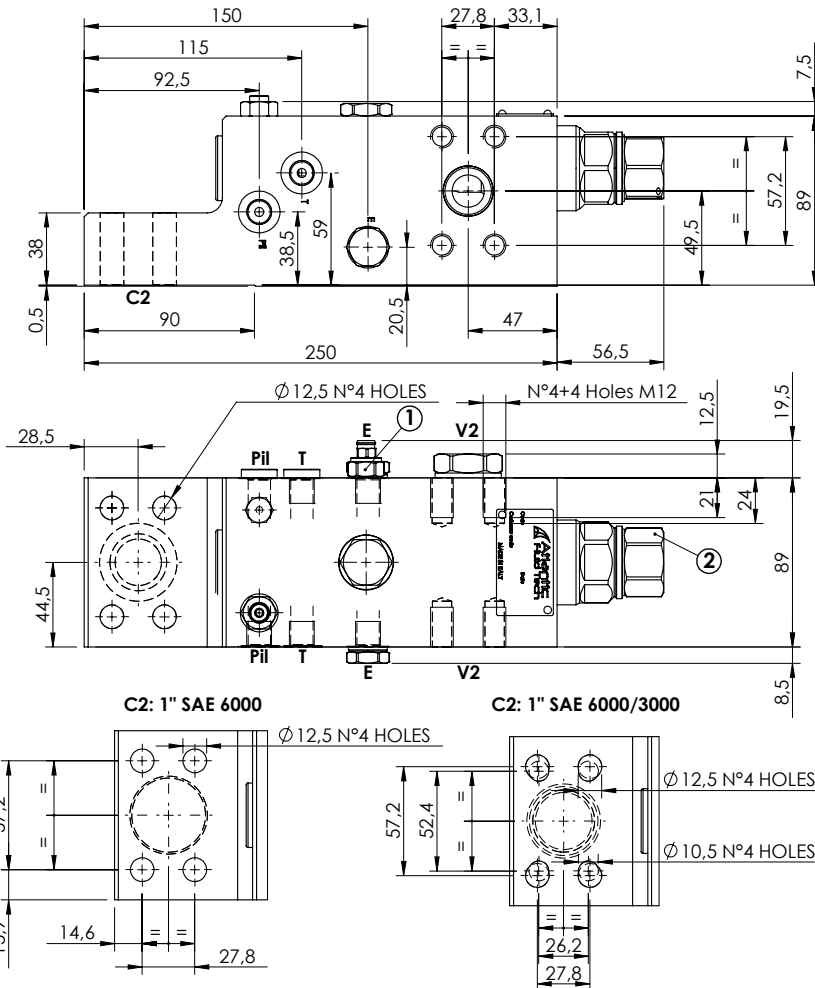
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000106	MLST-300-AAGR-00-S34-N420	V2,C2: 3/4" SAE 6000 E,Pil,T: G 1/4"	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 3.4
ML000115	MLST-300-AAJR-00-S34-N420	V2,C2: 3/4" SAE 6000 E,Pil,T: 1/4" JIS	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 3.4

CHECK AND METERING VALVE

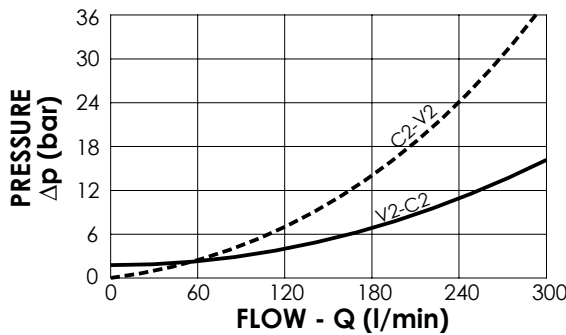
**MLST-300-AAGN**

FLANGED TYPE  
1" SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	300 l/min
Manifold:	Steel
Weight:	12,14 kg



**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643

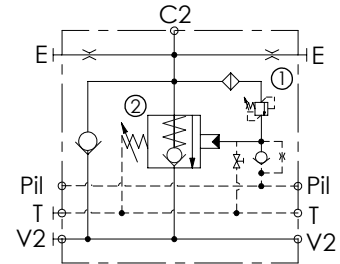
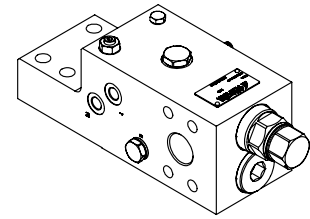
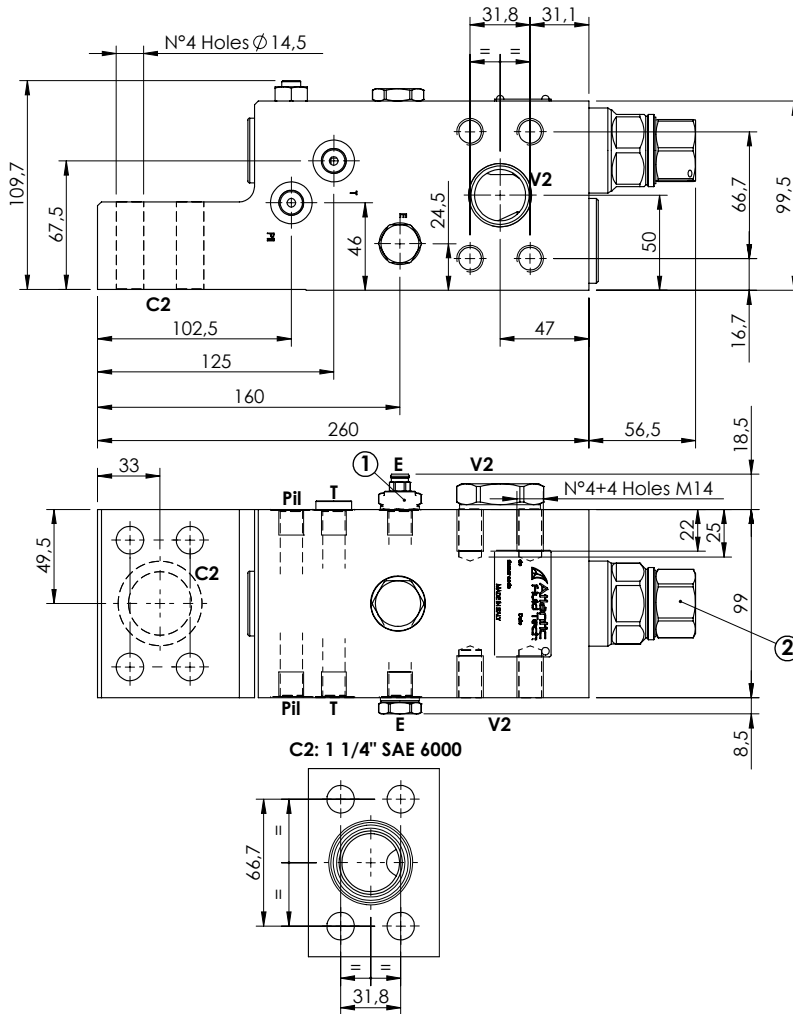
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000079	MLST-300-AAGN-00-S10-N420	V2,C2: 1" SAE 6000 E,Pil,T: G 1/4"	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 3.4
ML000080	MLST-300-AAUN-00-S10-N420	V2,C2: 1" SAE 6000 E,Pil,T: 9/16-18 UNF-2B	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 3.4
ML000081	MLST-300-ASGN-00-S10-N420	V2: 1" SAE 6000 C2: 1" SAE 6000/3000 E, Pil, T: G 1/4"	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 3.4
ML000177	MLST-300-ASJN-00-S10-N420	V2,C2: 1" SAE 6000 E, Pil, T: JIS 1/4"	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 3.4

CHECK AND METERING VALVE

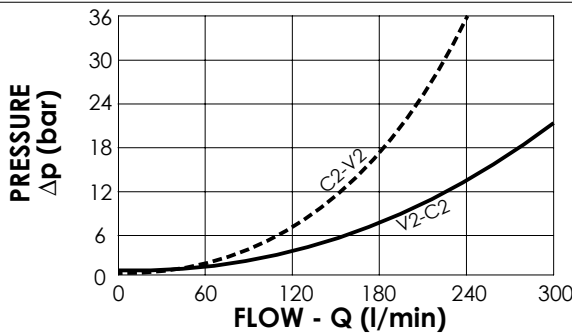
**MLST-300-AAGN**

FLANGED TYPE  
1 1/4" SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	300 l/min
Manifold:	Steel
Weight:	15,18 kg



**NOTES**

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643

**ORDERING CODES**

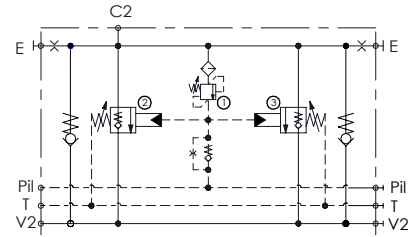
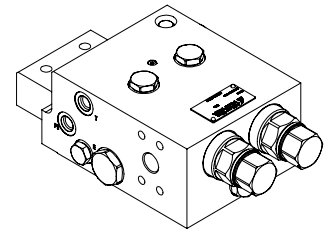
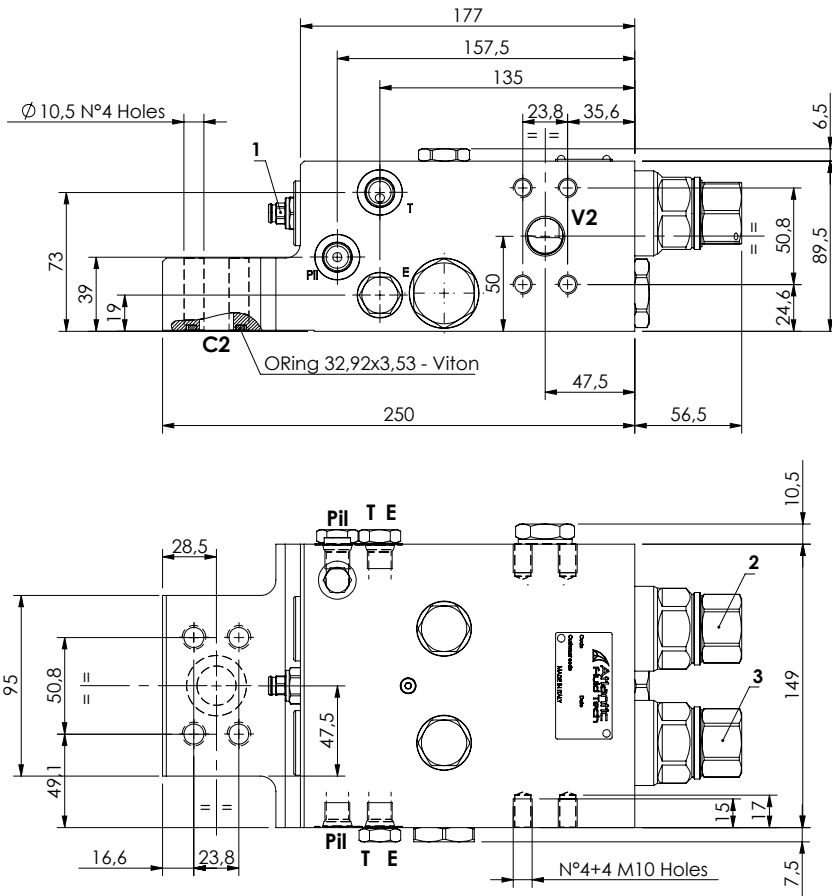
Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000077	MLST-300-AAGN-00-S11-N420	V2,C2: 1 1/4" SAE 6000 E,P11,T: G 1/4"	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 3.4
ML000078	MLST-300-AAUN-00-S11-N420	V2,C2: 1 1/4" SAE 6000 E,P11,T: 9/16-18 UNF-2B	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 3.4
ML000131	MLST-300-AAJN-00-S11-N420	V2,C2: 1 1/4" SAE 6000 E,P11,T: 1/4" JIS	① 350 Q=5 l/min ② 7.5 Crack. pr.	① 150-420 ② 3-15	① 236 ② 3.4



CHECK AND METERING VALVE

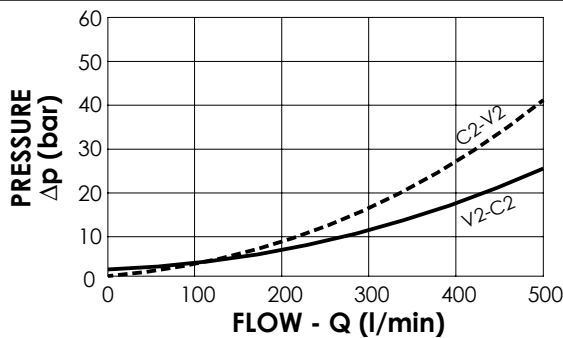
**MLST-500-AAJN**

FLANGED TYPE  
3/4" SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	500 l/min
Manifold:	Steel
Weight:	19,51 kg



**NOTES**

When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

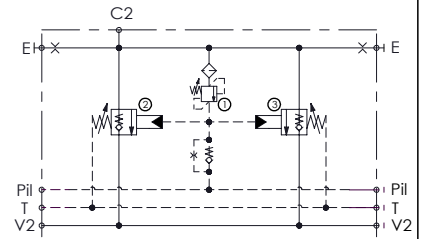
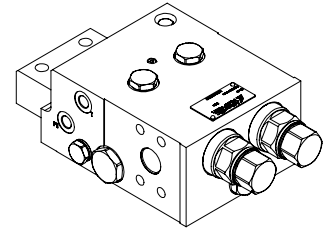
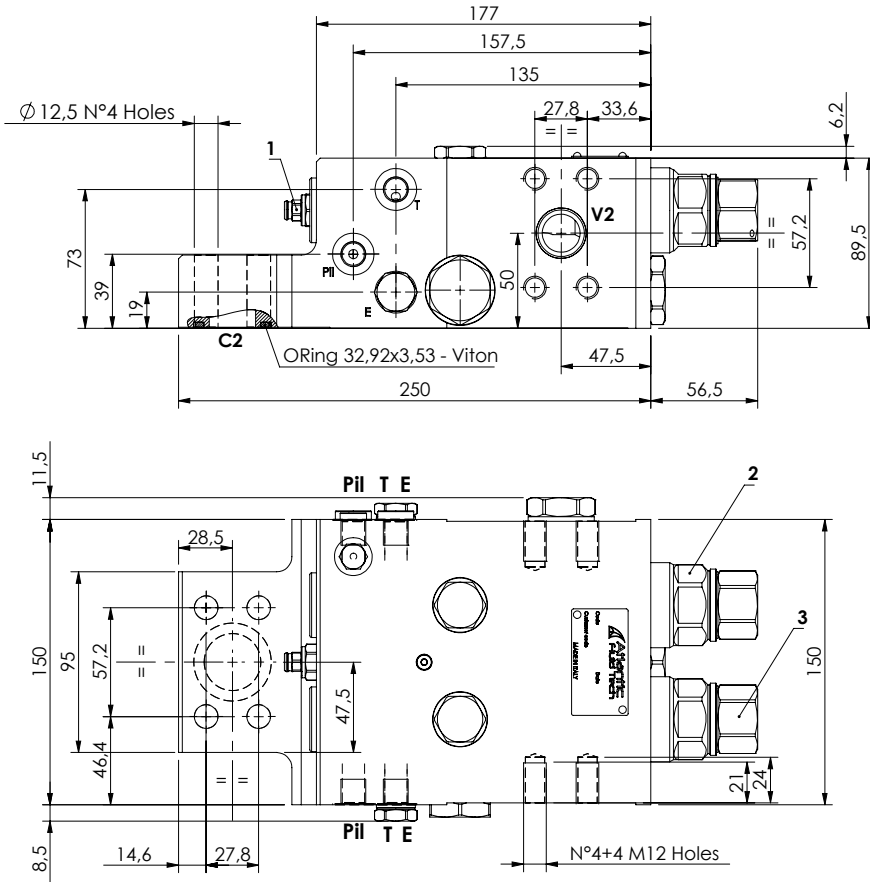
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000263	MLST-500-AAJN-00-S34-N420	V2,C2: 3/4" SAE 6000 E,Pil,T: JIS 1/4"	① 350 Q=5 l/min ②③7.5 Crack. pr.	① 150-420 ②③3-15	① 236 ②③3.4

CHECK AND METERING VALVE

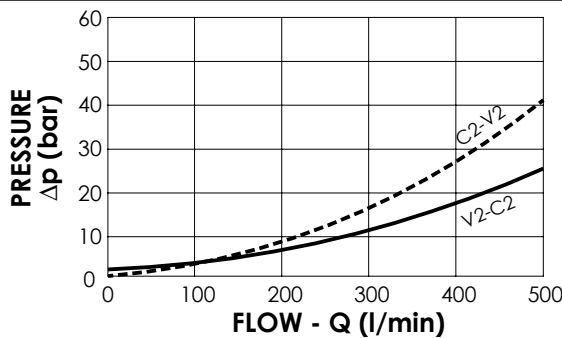
**MLST-500-AAGN**

FLANGED TYPE  
1" SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	500 l/min
Manifold:	Steel
Weight:	19,43 kg



**NOTES**

When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

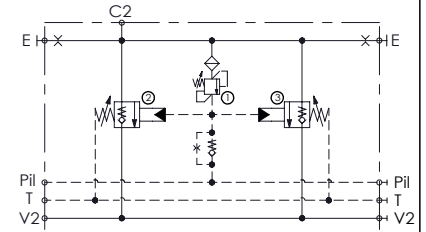
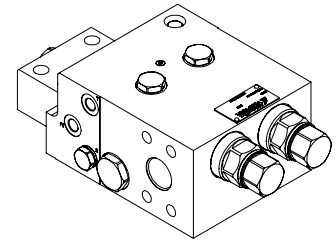
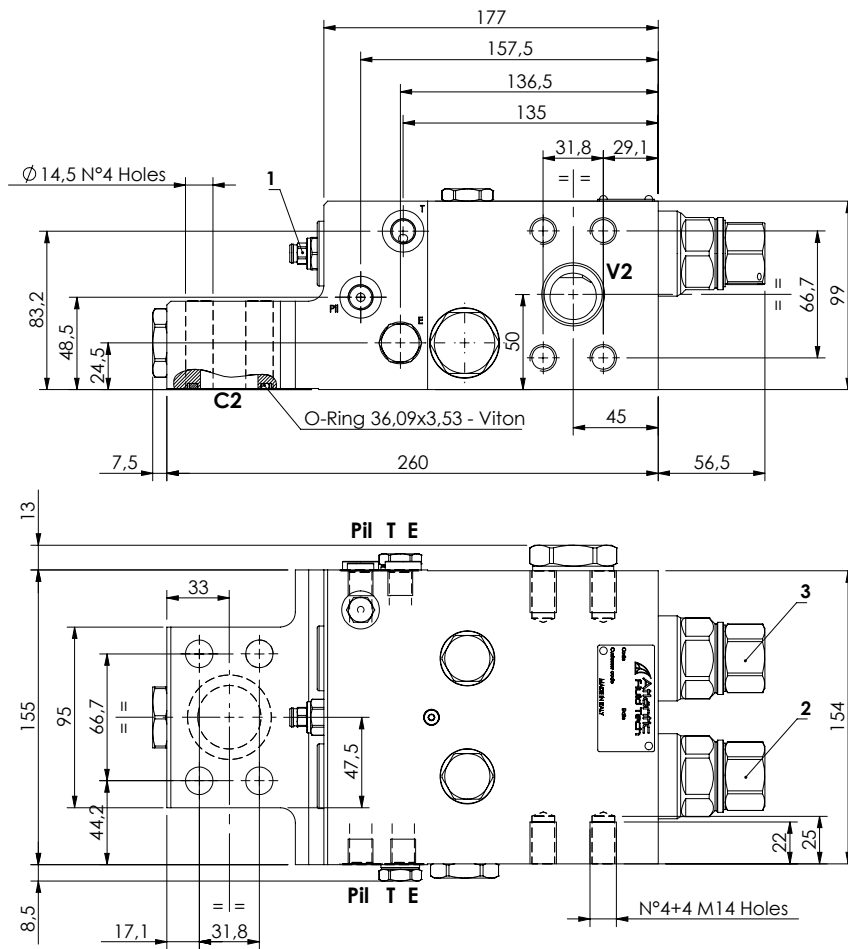
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000113	MLST-500-AAGN-00-S10-N420	V2,C2: 1" SAE 6000 E,Pil,T: G 1/4"	① 370 Q=5 l/min ②③ 7.5 Crack. pr.	① 150-420 ②③ 3-15	① 236 ②③ 3.4

CHECK AND METERING VALVE

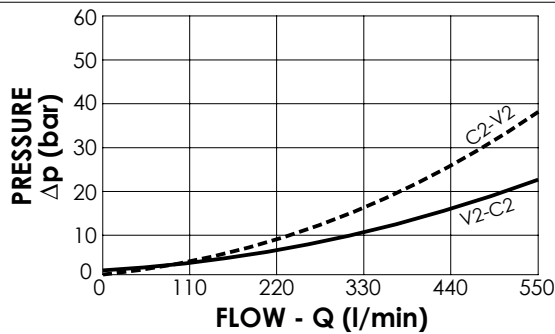
**MLST-550-AAGN**

FLANGED TYPE  
1" 1/4 SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	550 l/min
Manifold:	Steel
Weight:	22,67 kg



**NOTES**

When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

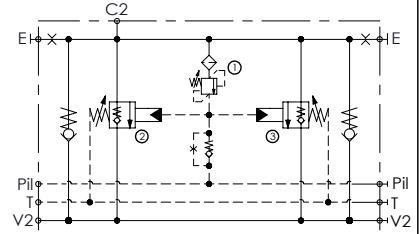
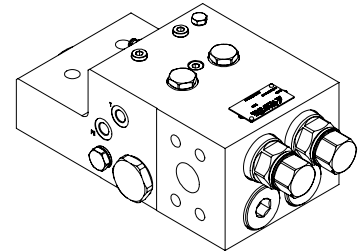
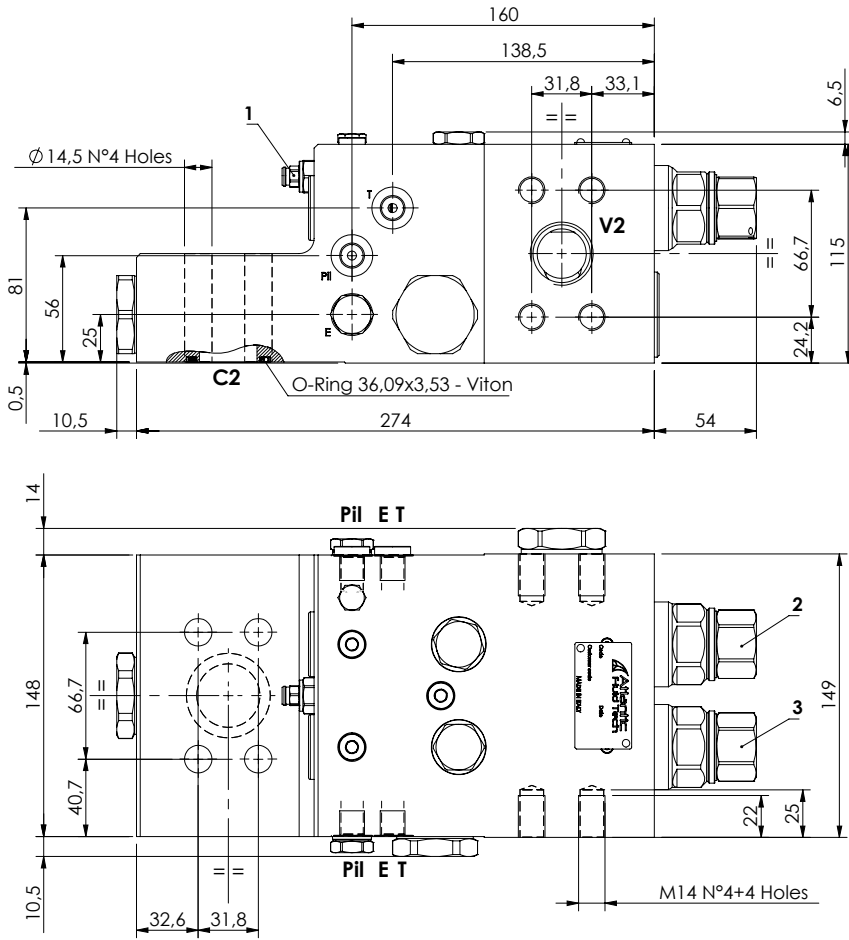
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000161	MLST-550-AAGN-00-S11-N420	V2,C2:1" 1/4 SAE 6000 E,Pil,T:G 1/4"	① 350 Q=5 l/min ②③ 7.5 Crack. pr.	① 150-420 ②③ 3-15	① 236 ②③ 3.4

CHECK AND METERING VALVE

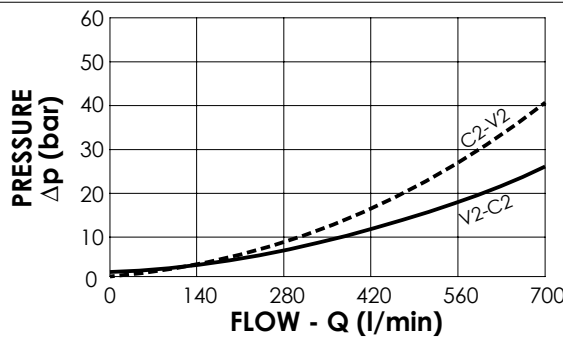
**MLST-700-AAGN**

FLANGED TYPE  
1" 1/4 SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	700 l/min
Manifold:	Steel
Weight:	27,5 kg



**NOTES**

When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

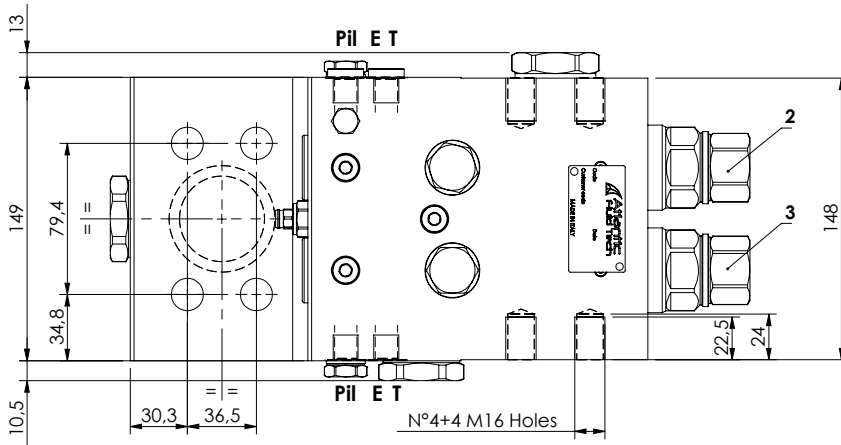
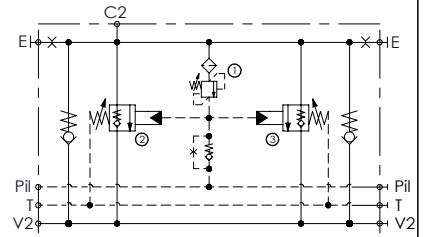
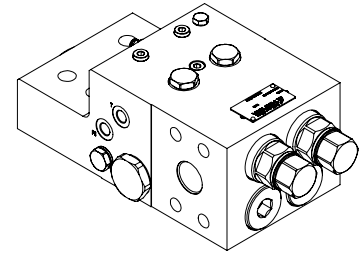
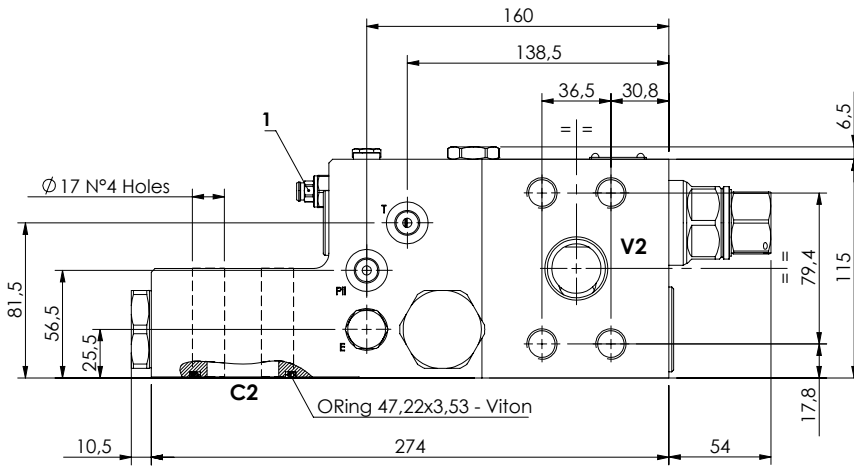
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000211	MLST-700-AAGN-00-S11-N420	V2,C2:1" 1/4 SAE 6000 E,Pil,T:G 1/4"	① 400 Q=5 l/min ②③ 7.5 Crack. pr.	① 150-420 ②③ 3-15	① 236 ②③ 3.4

CHECK AND METERING VALVE

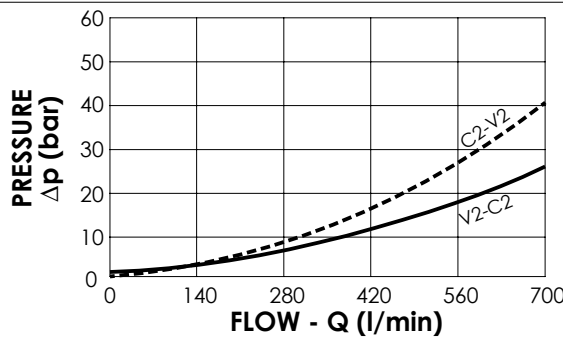
**MLST-700-AAGN**

FLANGED TYPE  
1" 1/2 SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	700 l/min
Manifold:	Steel
Weight:	27,31 kg



**NOTES**

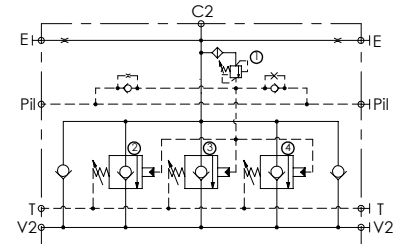
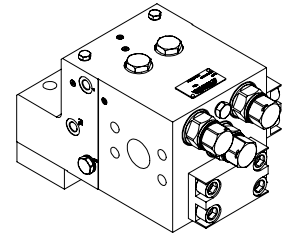
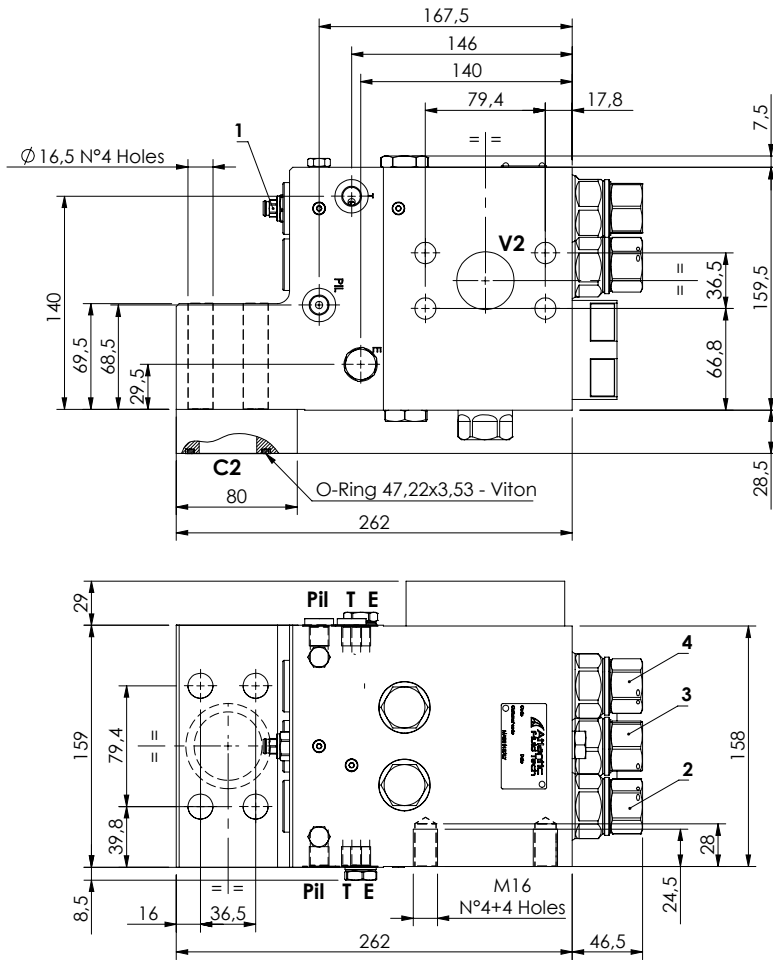
When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000098	MLST-700-AAGN-00-S22-N420	V2,C2:1" 1/2 SAE 6000 E,Pil,T:G 1/4"	① 400 Q=5 l/min ②③ 7.5 Crack. pr.	① 150-420 ②③ 3-15	① 236 ②③ 3.4
ML000094	MLST-700-AAJN-00-S22-N420	V2,C2:1" 1/2 SAE 6000 E,Pil,T:1/4" JIS	① 400 Q=5 l/min ②③ 7.5 Crack. pr.	① 150-420 ②③ 3-15	① 236 ②③ 3.4

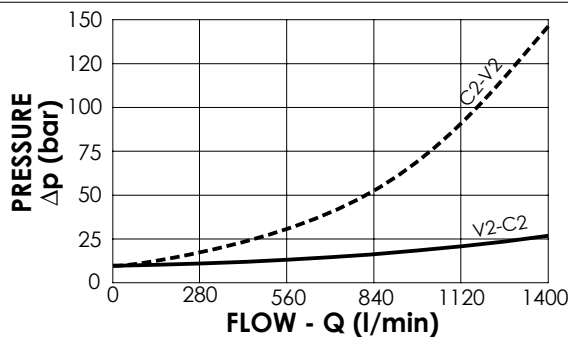
CHECK AND METERING VALVE

**MLST-1400-AAGN** FLANGED TYPE  
1" 1/2 SAE 6000



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	1400 l/min
Manifold:	Steel
Weight:	43,27 kg



**NOTES**

When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

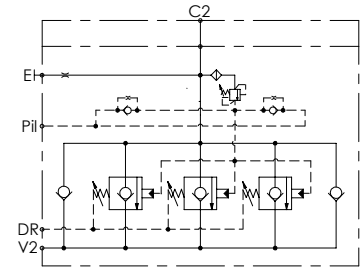
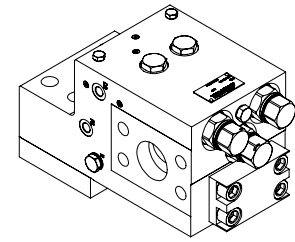
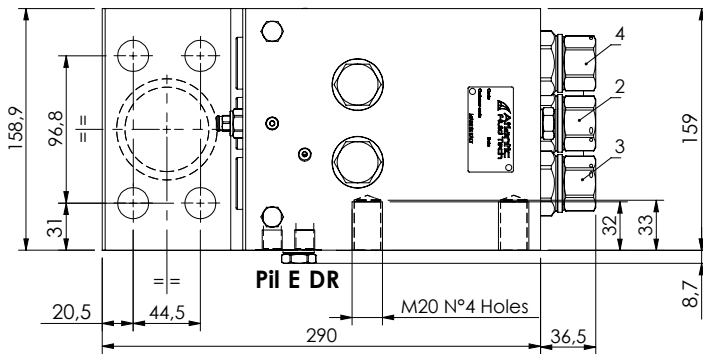
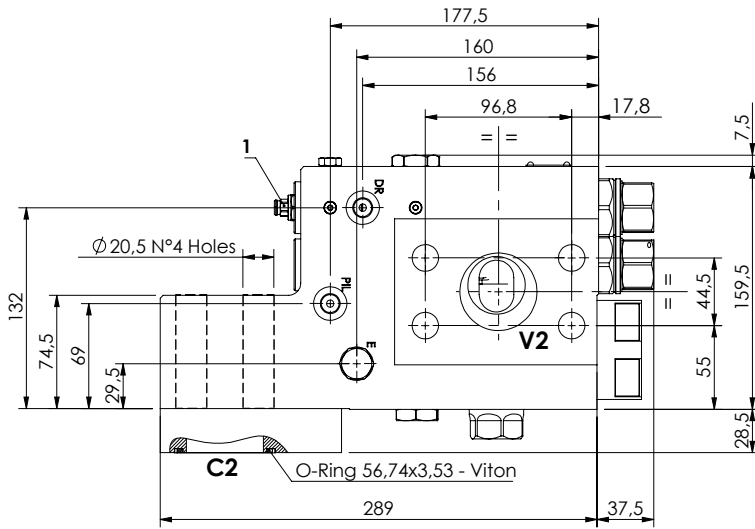
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000162	MLST-1400-AAGN-00-S22-N420	V2,C2:1" 1/2 SAE 6000 E,Pil,T:G 1/4"	① 400 Q=5 l/min ②③④ 7.5 Crack. pr.	① 150-420 ②③④ 3-15	① 236 ②③④ 3.4

CHECK AND METERING VALVE

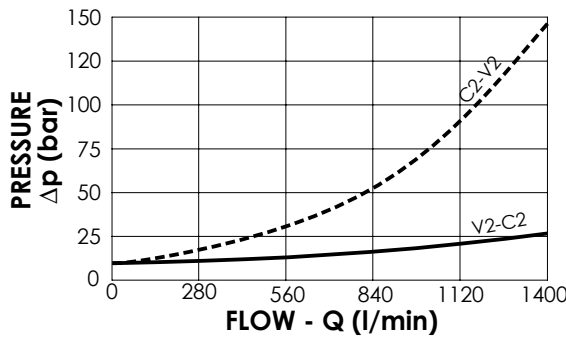
**MLST-1400-AAGR**

**FLANGED TYPE  
2" SAE 6000  
RIGHT VERSION**



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	1400 l/min
Manifold:	Steel
Weight:	45,87 kg



**NOTES**

When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

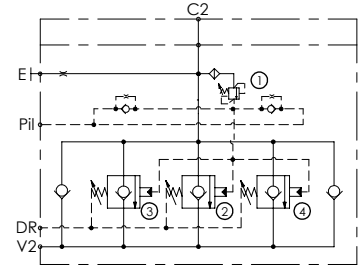
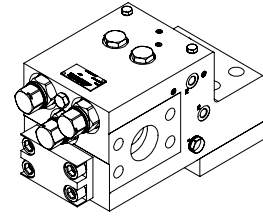
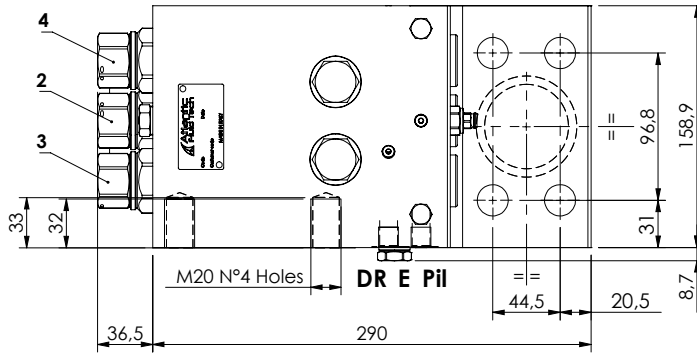
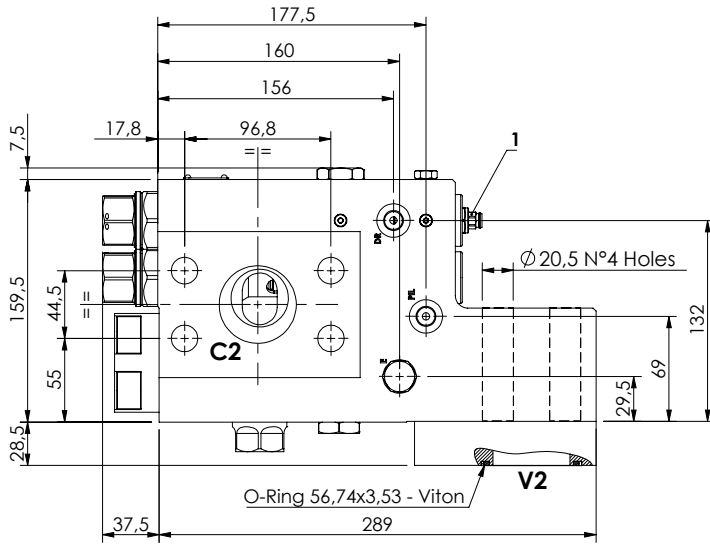
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000167	MLST-1400-AAGR-00-S20-N420	V2,C2: 2" SAE 6000 E,Pil,DR: G 1/4"	① 400 Q=5 l/min ②③④7,5 Crack. pr.	① 150-420 ②③④ 3-15	① 236 ②③④ 3.4

CHECK AND METERING VALVE

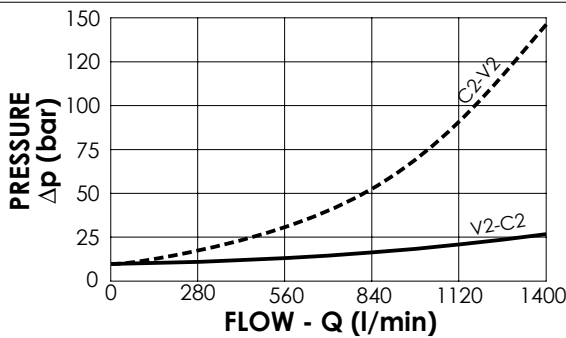
**MLST-1400-AAGL**

FLANGED TYPE  
2" SAE 6000  
LEFT VERSION



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	1400 l/min
Manifold:	Steel
Weight:	45,86 kg



**NOTES**

When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

**ORDERING CODES**

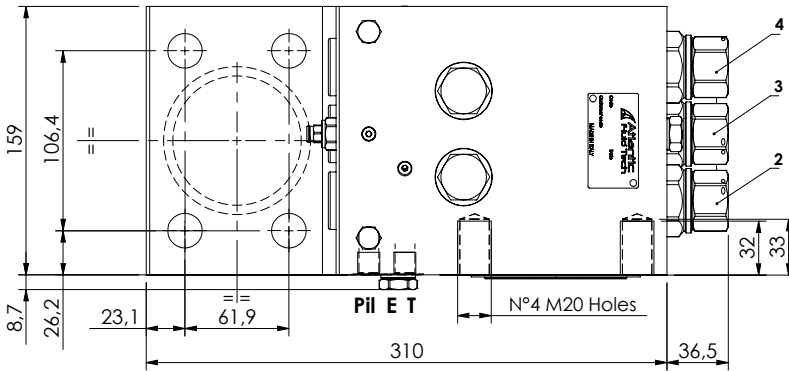
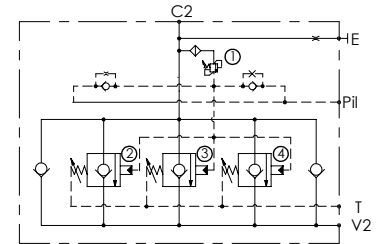
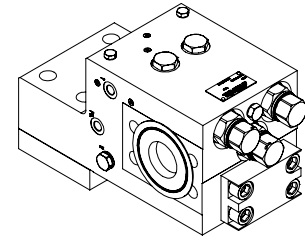
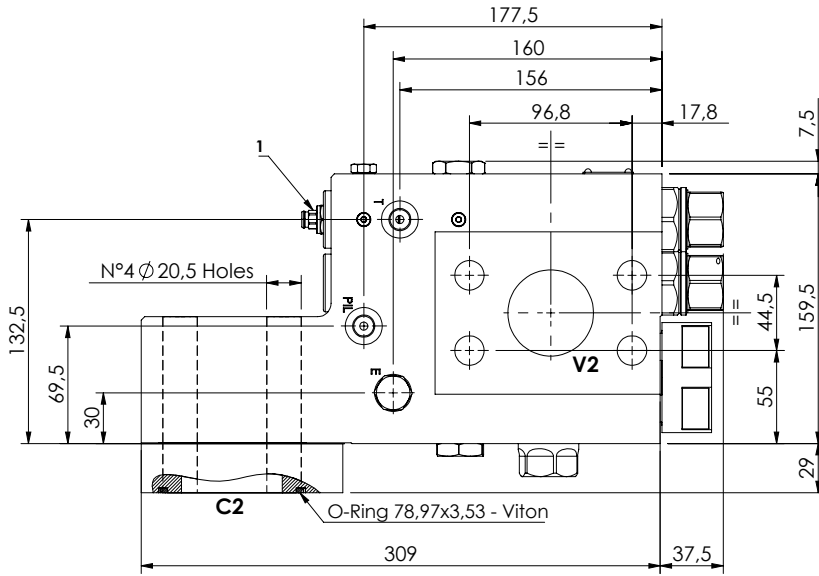
Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000166	MLST-1400-AAGL-00-S20-N420	V2,C2:2" SAE 6000 E,Pil,T:G 1/4"	①400 Q=5 l/min ②③④7,5 Crack. pr.	①150-420 ②③④3-15	①236 ②③④3.4



CHECK AND METERING VALVE

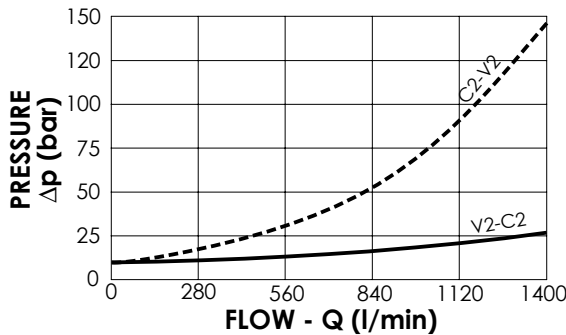
**MLST-1500-AAGR**

**FLANGED TYPE  
3" SAE 3000 / 2" SAE 6000  
RIGHT VERSION**



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	1500 l/min
Manifold:	Steel
Weight:	47,16 kg



**NOTES**

When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

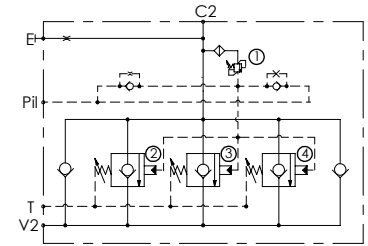
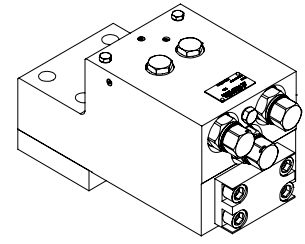
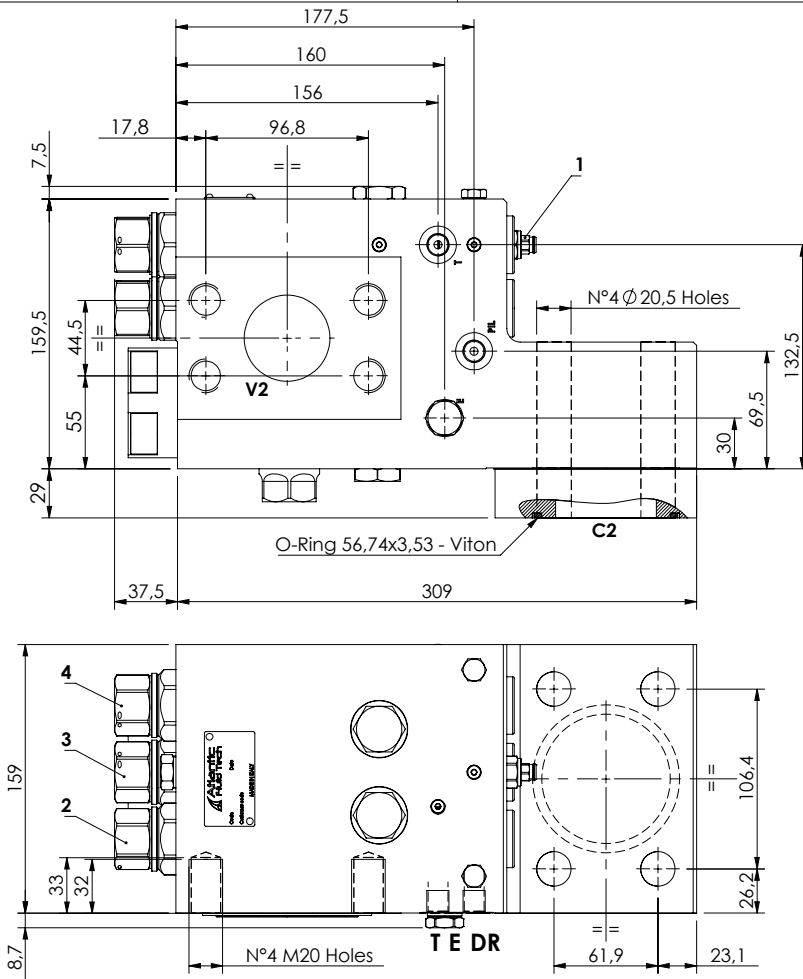
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000164	MLST-1500-AAGR-00-S30-N420	V2:2" SAE 6000 C2:3" SAE 3000 E,Pii,T:G 1/4"	① 400 Q=5 l/min ② ③ ④ 7.5 Crack. pr.	① 150-420 ② ③ ④ 3-15	① 236 ② ③ ④ 3.4

CHECK AND METERING VALVE

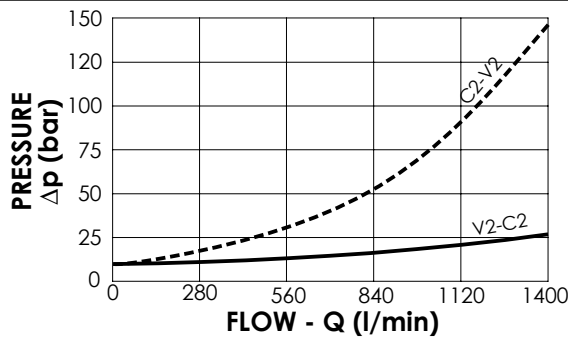
**MLST-1500-AAGL**

**FLANGED TYPE  
3" SAE 3000 / 2" SAE 6000  
LEFT VERSION**



**SPECIFICATIONS**

Max. operating pressure:	420 bar
Rated flow:	1500 l/min
Manifold:	Steel
Weight:	47,15 kg



**NOTES**

When correctly adjusted for the special excavator installation, these valves meet the requirement of ISO 8643

**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)
ML000163	MLST-1500-AAGL-00-S30-N420	V2:2" SAE 6000 C2:3" SAE 3000 E,P,ii,T:G 1/4"	① 400 Q=5 l/min ②③④7.5 Crack. pr	① 200-420 ②③④3-15	① 236 ②③④3.4

SECTION 11

SHUTTLE AND LOGIC ELEMENTS



Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	CDSN-005-SSNS	Shuttle	5	350	Insert	VP000018	11.01.010
	CDSN-030-SSNS	Shuttle	30	350	Insert	VP000079	11.01.020
	MDSN-050-SSNR	Shuttle	50	350	In line	G 1/4"	11.01.030
	CDML-040-LBVD	Direct acting, manually operated	40	350	Cartridge	VP000338	11.02.040
	CDLN-040-CCTC	Direct acting, spool type	40	350	Cartridge	SAE-10-3N	11.03.050
	CDLN-040-CCTE	Direct acting, spool type	40	350	Cartridge	SAE-10-3N	11.04.060
	CDLN-040-CCVC	Direct acting, spool type	40	350	Cartridge	SAE-10-3N	11.05.070
	CDLN-040-CCVE	Direct acting, spool type	40	350	Cartridge	SAE-10-3N	11.06.080
	CDLC-150-CCTB	Direct acting, spool type	150	350	Cartridge	SAE-12-4N	11.07.090
	CDLN-040-CDTK	Direct acting, spool type	40	350	Cartridge	SAE-10-4N	11.08.100
	CDLN-040-CDTH	Direct acting, spool type	40	350	Cartridge	SAE-10-4N	11.09.110
	CDLN-040-CDPB	Direct acting, spool type	40	350	Cartridge	SAE-10-4N	11.10.120
	CDLN-120-CDPB	Direct acting, spool type	120	350	Cartridge	SAE-12-4N	11.10.130
	CDLN-100-SCPC	Normally closed, spool type	100	350	Cartridge	VP000198	11.11.140
	CDLN-100-SCPC	Normally closed, spool type, adjustable setting	100	350	Cartridge	VP000198	11.11.150
	CDLN-160-SCTC	Normally closed, spool type	160	350	Cartridge	VP000065	11.11.160
	CDLN-300-SCTC	Normally closed, spool type	300	350	Cartridge	VP000058	11.11.170
	CDLN-500-SCTC	Normally closed, spool type	500	350	Cartridge	VP000178	11.11.180

SECTION 11



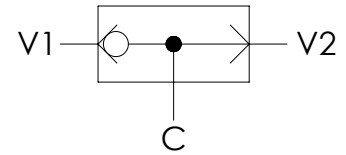
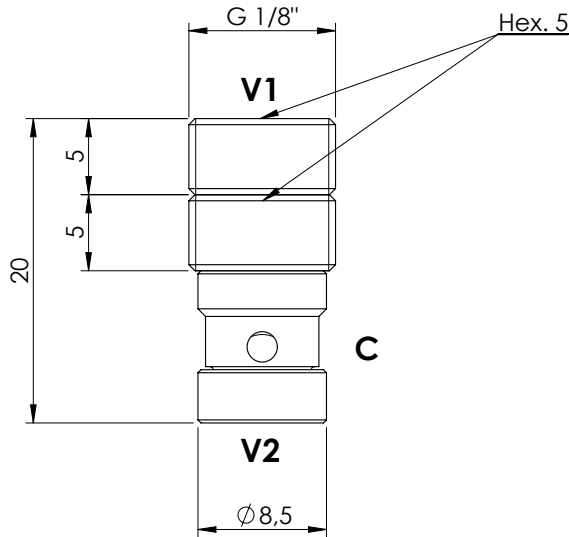
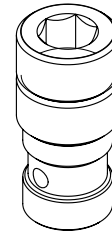
SHUTTLE AND LOGIC ELEMENTS

Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	CDLN-100-SCPD	Normally closed, spool type with internal orifice	100	350	Cartridge	VP000198	11.12.200
	CDLN-160-SCTD	Normally closed, spool type with internal orifice	160	350	Cartridge	VP000065	11.12.210
	CDLN-300-SCTD	Normally closed, spool type with internal orifice	300	350	Cartridge	VP000058	11.12.220
	CDLN-500-SCTD	Normally closed, spool type with internal orifice	500	350	Cartridge	VP000178	11.12.230
	CDLN-500-PCPS	Normally closed, poppet type, externally piloted	500	350	Cartridge	VP000189	11.13.240
	CDLN-060-SCPR	Normally open, spool type	60	350	Cartridge	VP000198	11.14.250
	CDLN-100-SBPE	Normally open, spool type	100	350	Cartridge	VP000330	11.15.260
	CDLN-200-SBPE	Normally open, spool type	200	350	Cartridge	VP000204	11.15.270
	CDLN-380-SBPE	Normally open, spool type	380	350	Cartridge	VP000330	11.15.280
	CDLN-160-SCTS	Normally closed, spool type, kick down type	160	350	Cartridge	VP000065	11.16.290

SHUTTLE VALVE

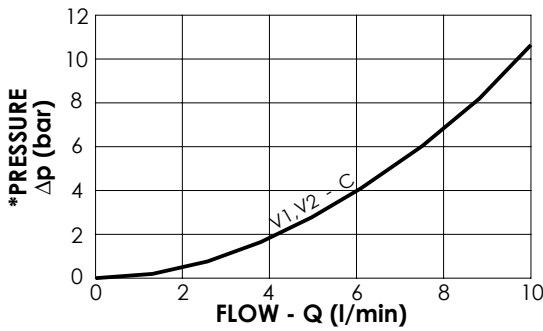
**CDSN-005-SSNS**

INSERT TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	5 l/min
Cavity:	VP000018
Weight:	0,01 kg



**NOTES**

Installation torque:	12-15 Nm
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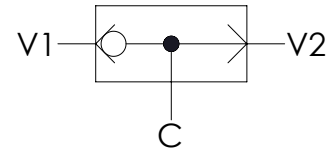
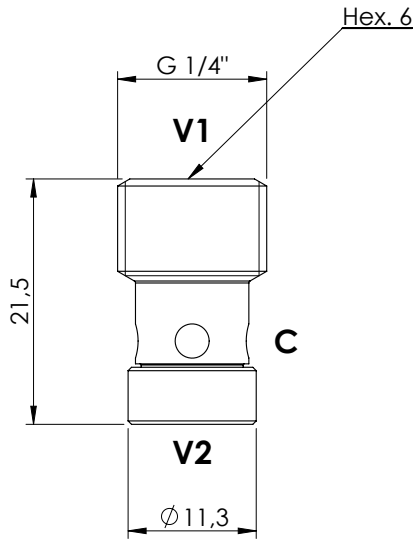
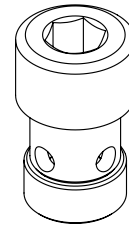
**ORDERING CODES**

Quick code	Description
CD000001	CDSN-005-SSNS-FN-018-N000

SHUTTLE VALVE

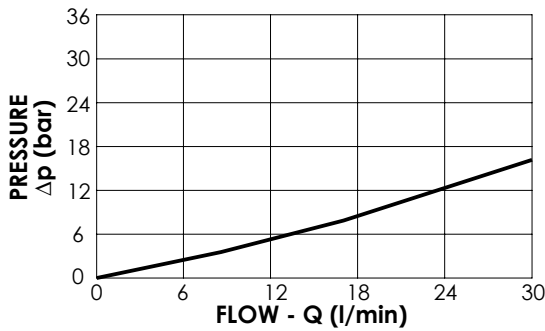
**CDSN-030-SSNS**

INSERT TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	VP000079
Weight:	0,01 kg



**NOTES**

Installation torque: 14 - 16 Nm

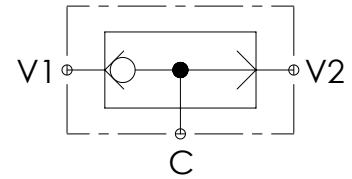
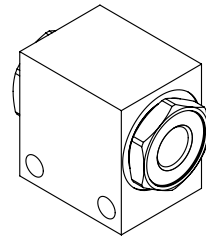
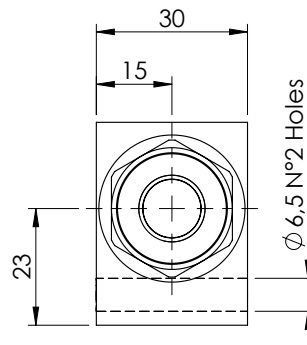
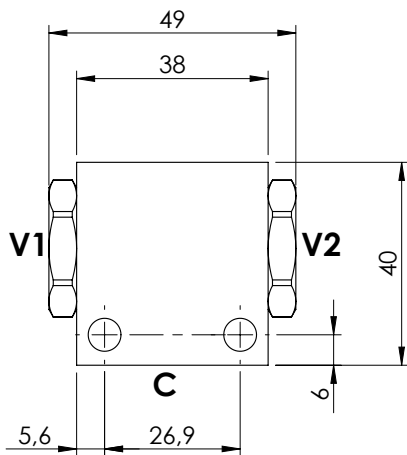
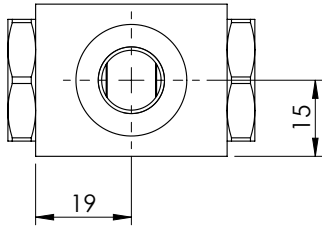
**ORDERING CODES**

Quick code	Description
CD000045	CDSN-030-SSNS-FN-079-N000

SHUTTLE VALVE

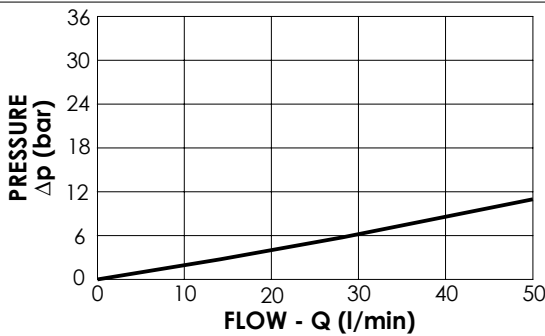
**MDSN-050-SSNR**

IN LINE TYPE



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	50 l/min
Manifold:	Aluminium
Weight:	0,16 kg



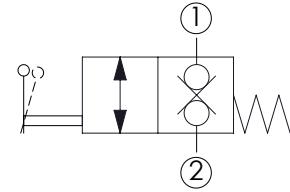
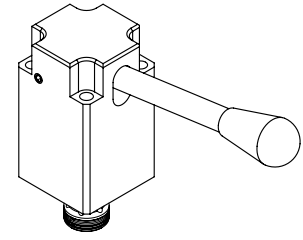
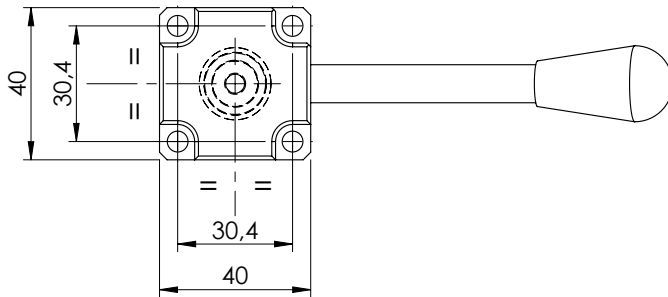
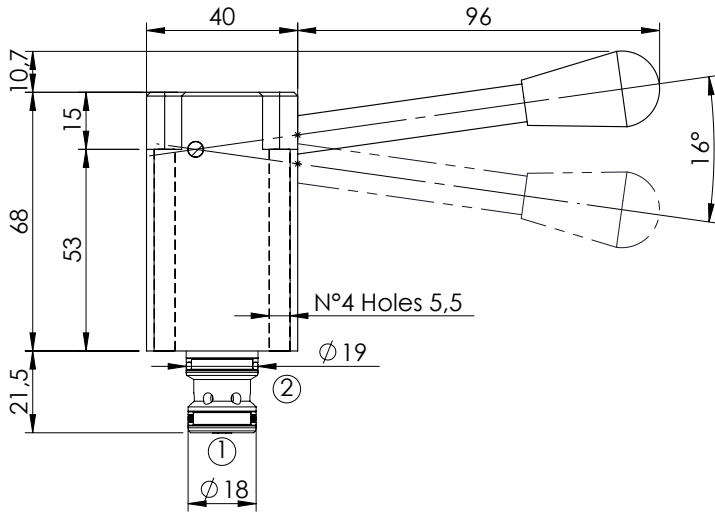
**ORDERING CODES**

Quick code	Description	Main ports size	
MD000001	MDSN-050-SSNR-NP-G14-N350	G 1/4"	

**CARTRIDGE SEAT VALVE**

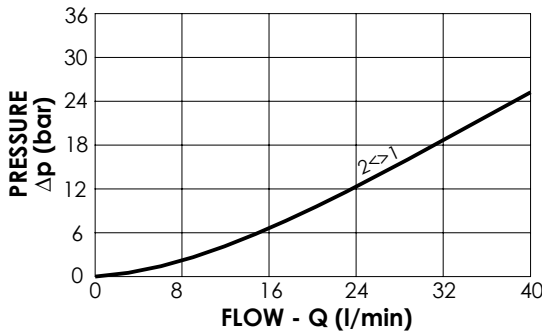
**CDML-040-LBVD**

**BIDIRECTIONAL SEAT-VALVE SHUT-OFF  
DIRECT ACTING  
MANUALLY OPERATED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Manifold:	Steel
Weight:	0,8 kg
Seal kit:	RD700338



**NOTES**

To be mounted with M5 x 60 bolt  
Installation torque: 5 Nm

**ORDERING CODES**

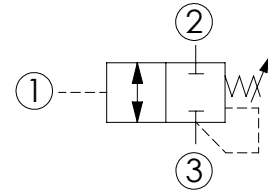
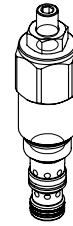
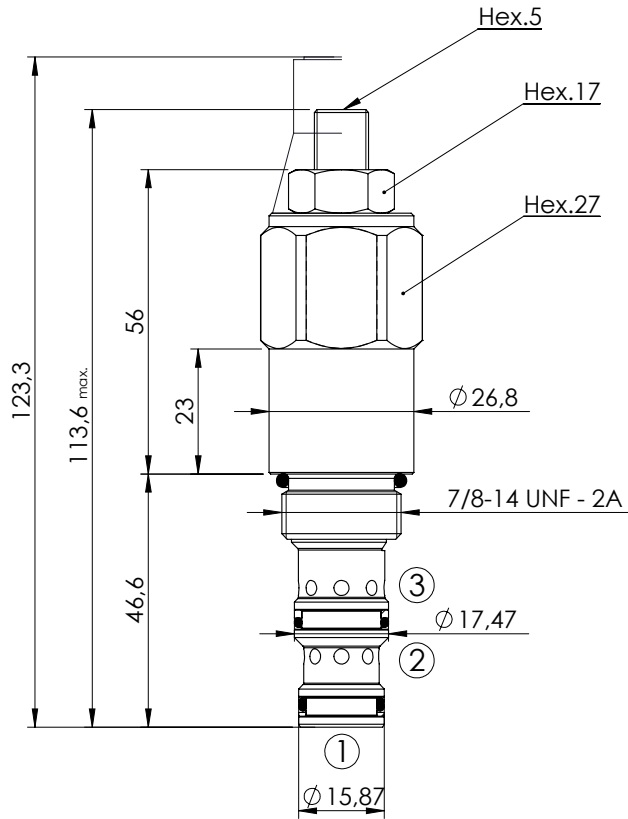
Quick code	Description	Cavity	
CD000234	CDML-040-LBVD-00-338-N350	VP000338	



LOGIC ELEMENT

**CDLN-040-CCTC**

**DIRECT ACTING  
SPOOL TYPE**



**SPECIFICATIONS**

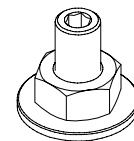
Max. operating pressure:	350 bar
Rated flow:	40 l/min
Cavity:	SAE-10-3N
Weight:	0,29 kg
Installation torque:	50 - 57 Nm
Seal kit:	RB700092

**SEALING CAP**

Ordering code:  
**AT000021**

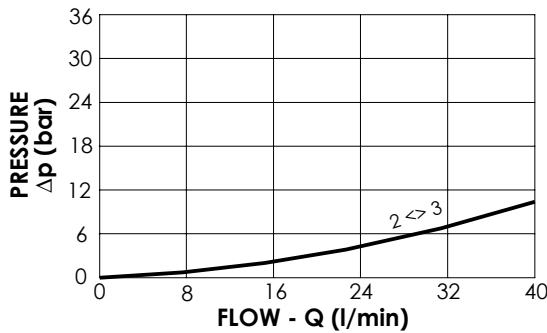


**OPTIONS**



**Adjustment  
with Screw**

Pressure in port 3 is additive to setting 1:1. For back pressure compensated valve consult CDLN-040-CCVC data sheef. No O-ring on 1



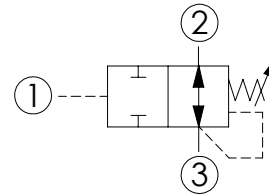
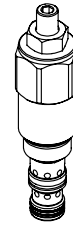
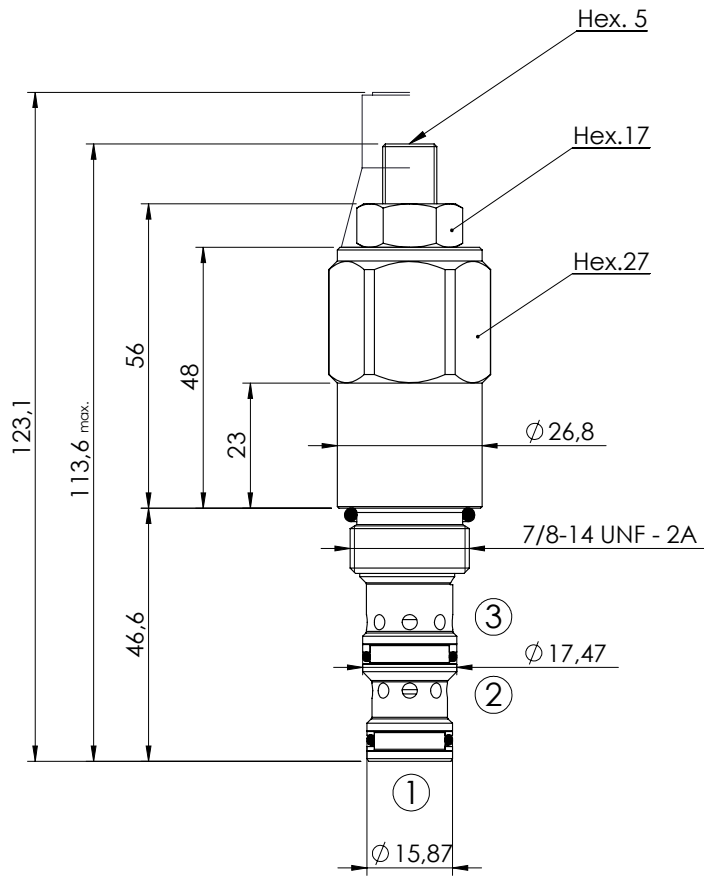
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CD000121	CDLN-040-CCTC-S10-N060	30	10-60	11	Adjustment with Screw

LOGIC ELEMENT

**CDLN-040-CCTE**

DIRECT ACTING  
SPOOL TYPE

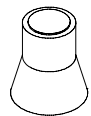


**SPECIFICATIONS**

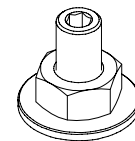
Max. operating pressure:	350 bar
Rated flow:	40 l/min
Cavity:	SAE-10-3N
Weight:	0,29 kg
Installation torque:	50 - 57 Nm
Seal kit:	RB700092

**SEALING CAP**

Ordering code:  
AT000021

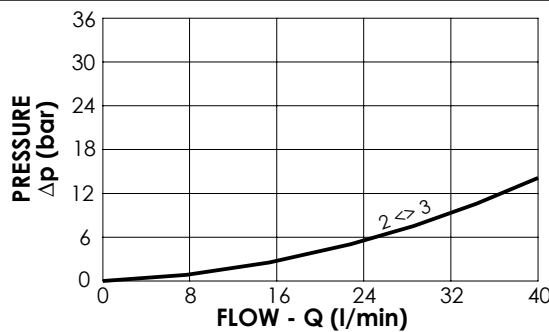


**OPTIONS**



Adjustment  
with Screw

Pressure in port 3 is additive to setting 1:1. For back pressure compensated valve consult CDLN-040-CCVE data sheet. No O-ring on 1



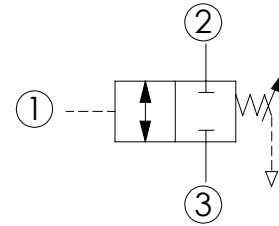
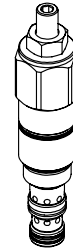
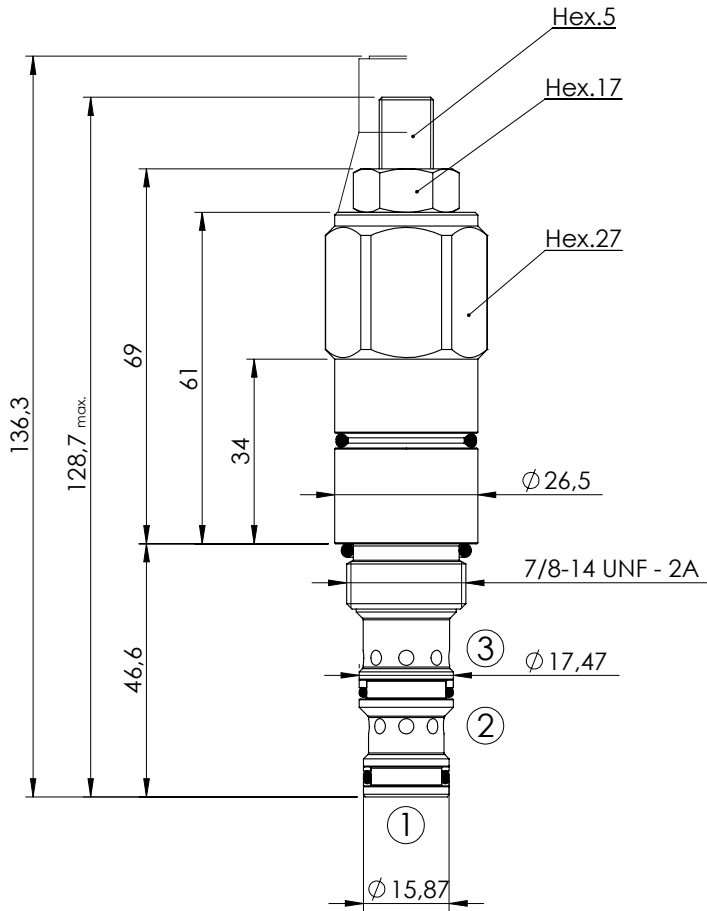
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CD000123	CDLN-040-CCTE-S10-N060	30	10-60	11	Adjustment with Screw

LOGIC ELEMENT

**CDLN-040-CCVC**

SPOOL TYPE - VENTED  
EXTERNAL PILOT

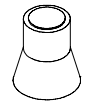


**SPECIFICATIONS**

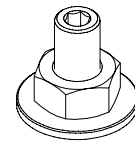
Max. operating pressure:	350 bar
Rated flow:	40 l/min
Cavity:	SAE-10-3N
Weight:	0,33 kg
Installation torque:	60 - 75 Nm
Seal kit:	RB700092

**SEALING CAP**

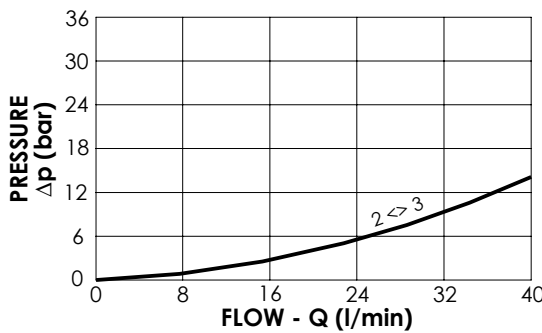
Ordering code:  
AT000021



**OPTIONS**



Adjustment  
with Screw



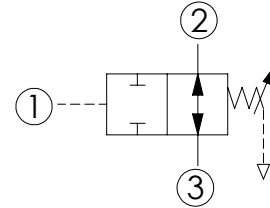
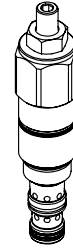
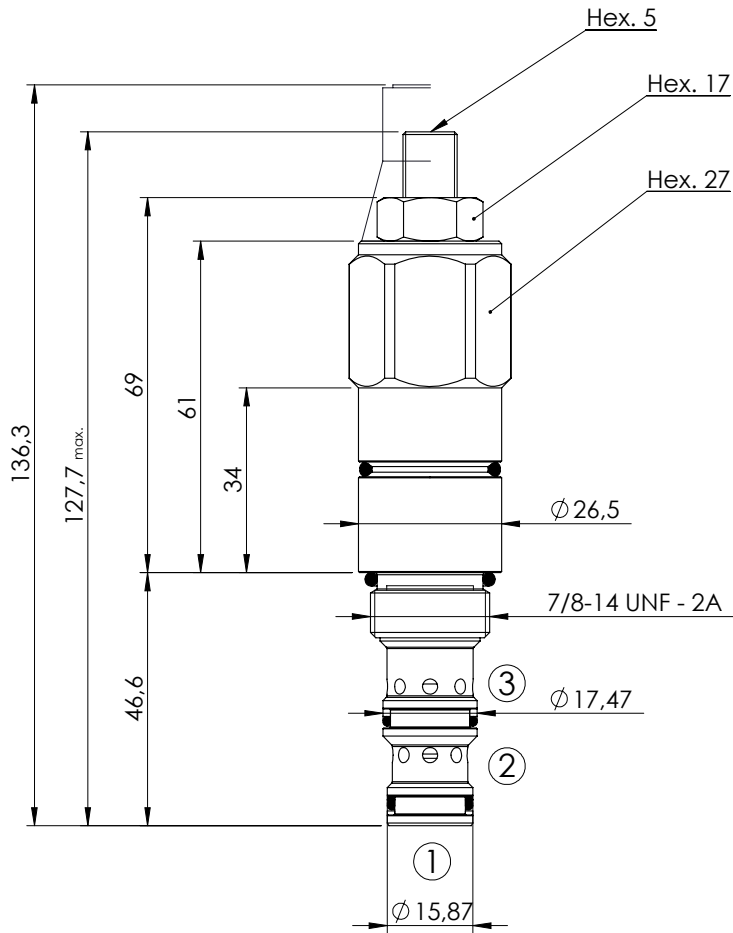
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CD000119	CDLN-040-CCVC-HN-S10-N180	120	20-180	22	Adjustment with Screw

LOGIC ELEMENT

**CDLN-040-CCVE**

SPOOL TYPE - VENTED  
EXTERNAL PILOT

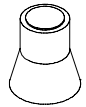


**SPECIFICATIONS**

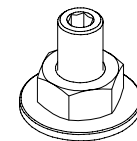
Max. operating pressure:	350 bar
Rated flow:	40 l/min
Cavity:	SAE-10-3N
Weight:	0,33 kg
Installation torque:	50 - 57 Nm
Seal kit:	RB700092

**SEALING CAP**

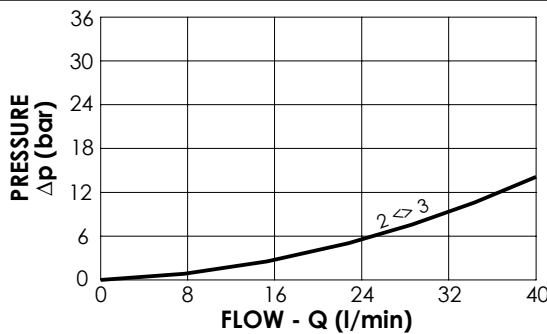
Ordering code:  
AT000021



**OPTIONS**



Adjustment  
with Screw



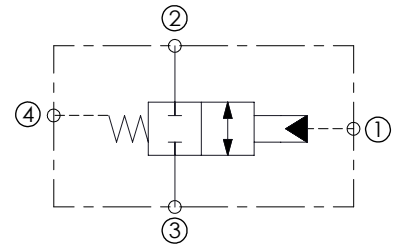
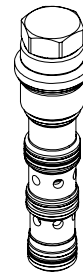
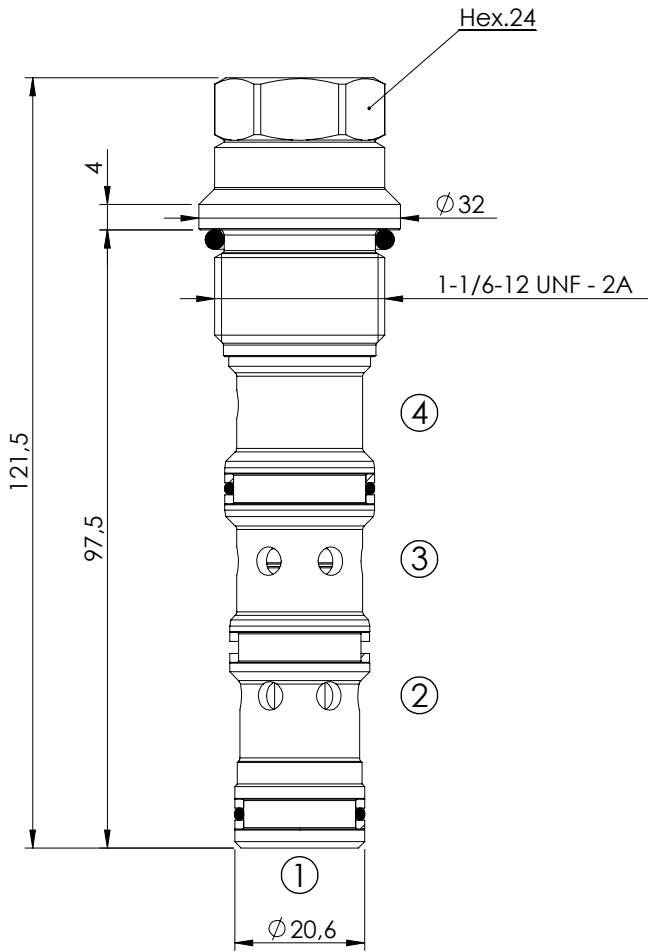
**ORDERING CODES**

Quick code	Description	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CD000122	CDLN-040-CCVE-HN-S10-N120	120	20-180	22	Adjustment with Screw

LOGIC ELEMENTS

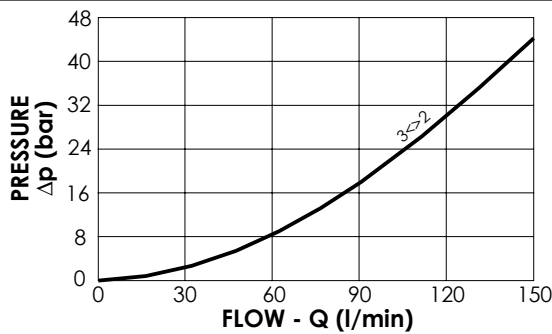
**CDLC-150-CCTB**

**DIRECT ACTING  
SPOOL TYPE**



**SPECIFICATIONS**

Max. operating pressure:	450 bar
Rated flow:	150 l/min
Cavity:	SAE-12-4N
Weight:	0,33 kg



**NOTES**

Installation torque:	120 - 130 Nm
Seal kit:	RB700103

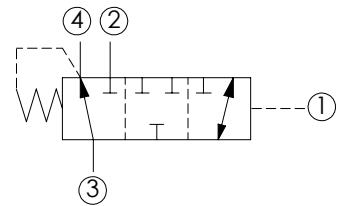
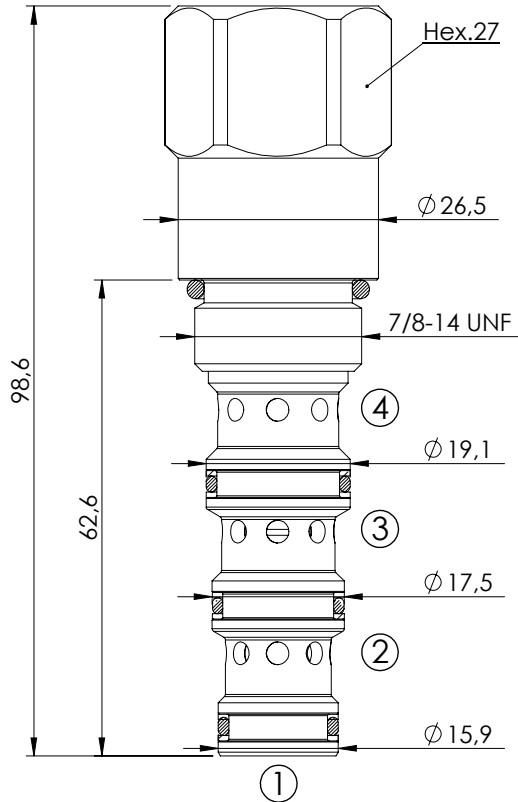
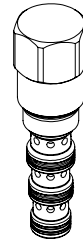
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	
CD000105	CDLC-150-CCTB-FN-S12-N007	7,5 (0/+2)	

LOGIC ELEMENT

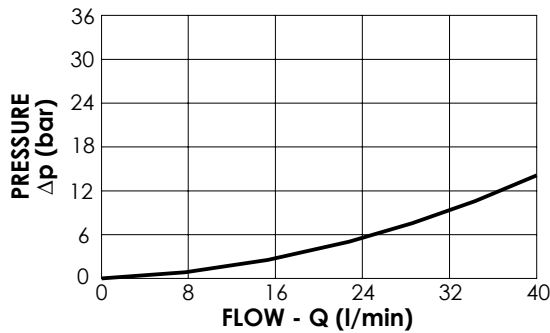
# CDLN-040-CDTK

DIRECT ACTING  
SPOOL TYPE



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Cavity:	SAE-10-4N
Weight:	0,23 kg
Internal leakage:	50 cc/min



## NOTES

Installation torque:	50-57 Nm
Seal kit:	RB700102

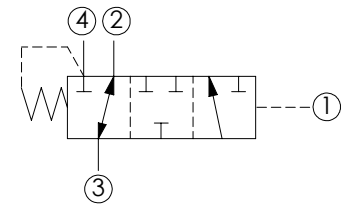
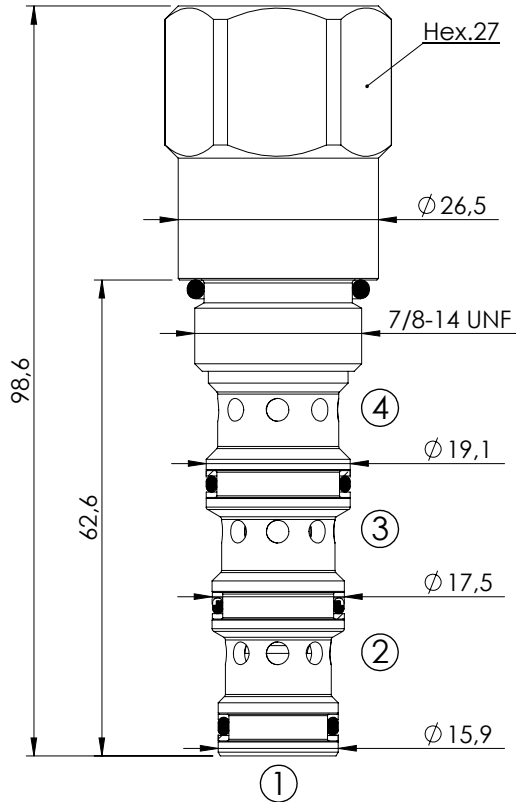
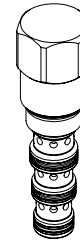
## ORDERING CODES

Quick code	Description	Standard setting (bar, Q=5 l/min)	
CD000300	CDLN-040-CDTK-FN-S10-N003	3 (±1)	
CD000260	CDLN-040-CDTK-FN-S10-N011	11(±1)	

LOGIC ELEMENT

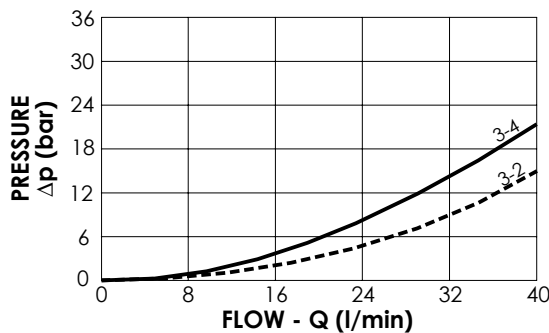
# CDLN-040-CDTH

DIRECT ACTING  
SPOOL TYPE



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Cavity:	SAE-10-4N
Weight:	0,23 kg
Internal leakage:	50 cc/min



## NOTES

Installation torque:	50-57 Nm
Seal kit:	RB700102

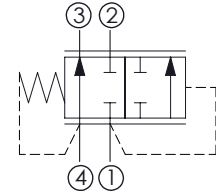
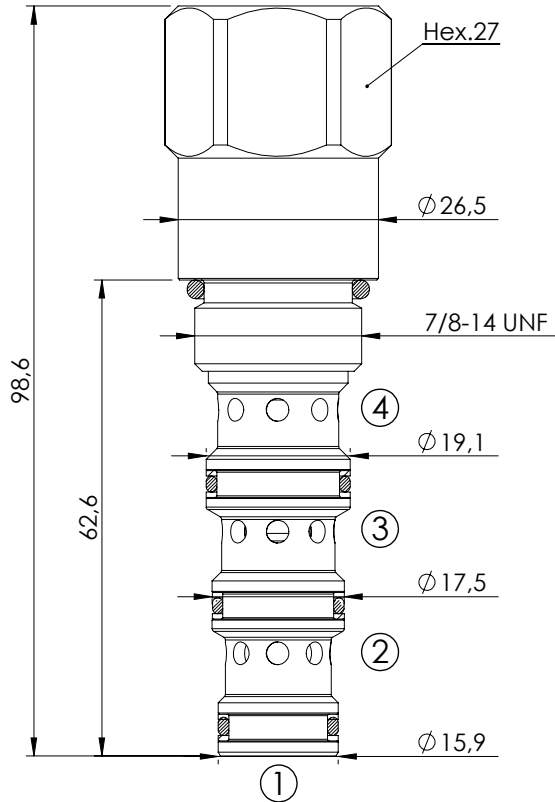
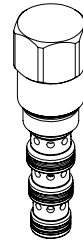
## ORDERING CODES

Quick code	Description	Standard setting (bar, Q=5 l/min)	
CD000377	CDLN-040-CDTH-FN-S10-N003	3 (±1)	
CD000261	CDLN-040-CDTH-FN-S10-N011	11 (±1)	
CD000343	CDLN-040-CDTH-FH-S10-N015	15 (±1)	
CD000276	CDLN-040-CDTH-FH-S10-N030	30 (±1)	
CD000262	CDLN-040-CDTH-FH-S10-N050	50 (±1)	

LOGIC ELEMENT

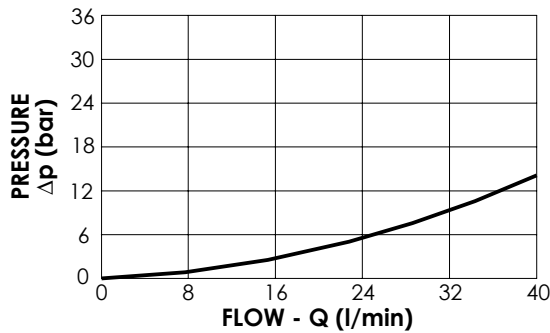
# CDLN-040-CDPB

DIRECT ACTING  
SPOOL TYPE



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	40 l/min
Cavity:	SAE-10-4N
Weight:	0,23 kg
Internal leakage:	50 cc/min



## NOTES

Installation torque:	50-57 Nm
Seal kit:	RB700102

## ORDERING CODES

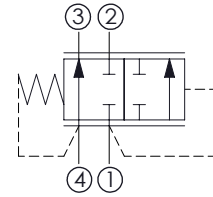
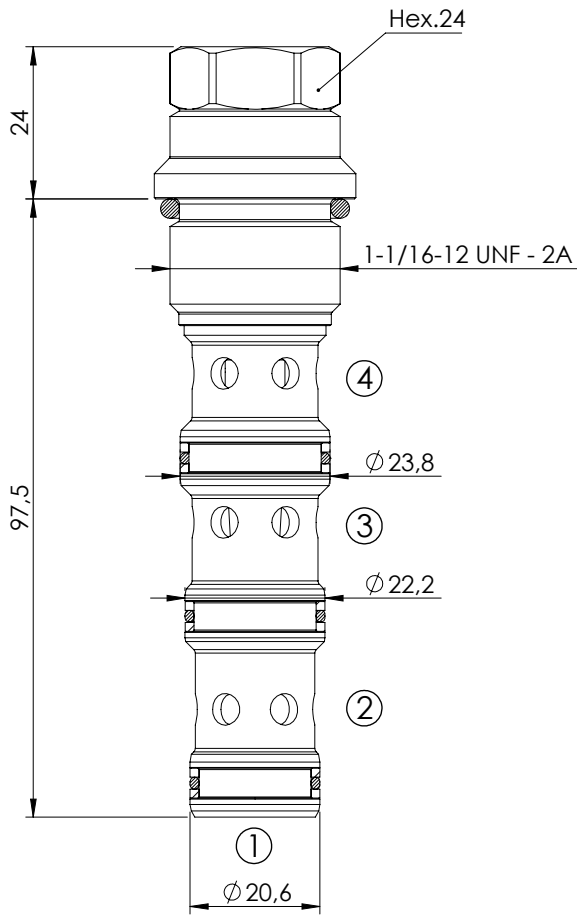
Quick code	Description	Standard setting (bar, Q=5 l/min)	
CD000295	CDLN-040-CDPB-FH-S10-N005	5 (±0,5)	
CD000296	CDLN-040-CDPB-FH-S10-N011	11,5 (±0,5)	



LOGIC ELEMENTS

**CDLN-120-CDPB**

DIREC ACTING  
SPOOL TYPE

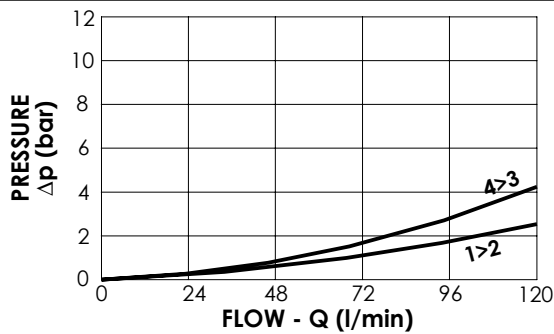


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	120 l/min
Cavity:	SAE-12-4N
Weight:	0,31 kg

**NOTES**

Installation torque:	50 - 60 Nm
Seal kit:	RB700103



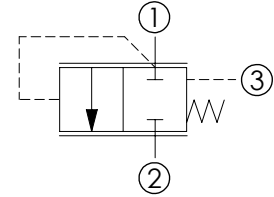
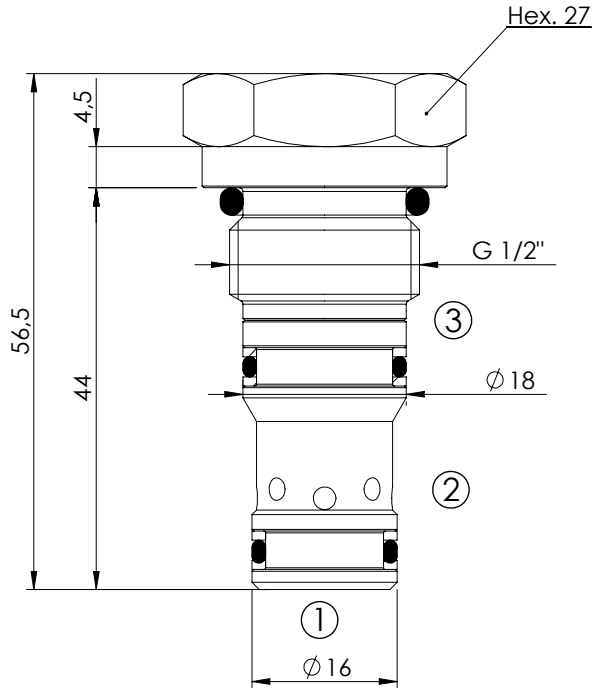
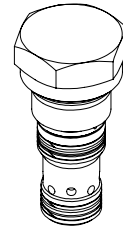
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	
CD000336	CDLN-120-CDPB-FH-S12-N010	10	

LOGIC ELEMENT

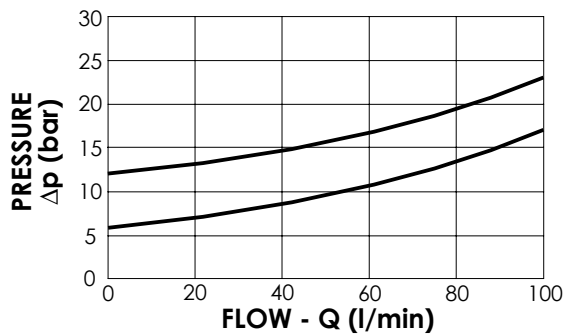
# CDLN-100-SCPC

NORMALLY CLOSED  
SPOOL TYPE



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Cavity:	VP000198
Weight:	0,12 kg
Spool:	Ø10 mm



## NOTES

Installation torque:	75 - 85 Nm
Seal kit:	RD700198
Parts in body compensator	

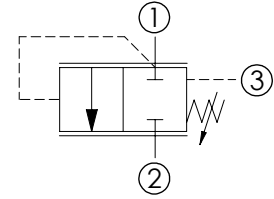
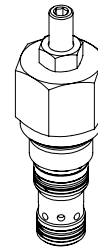
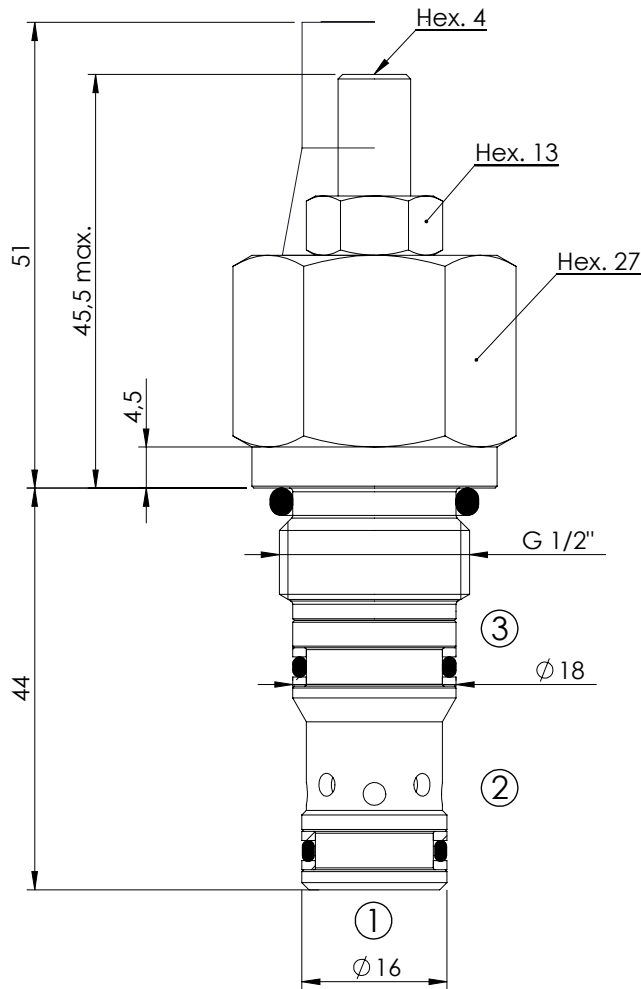
## ORDERING CODES

Quick code	Description	Cracking pressure (bar)	
CD000073	CDLN-100-SCPC-14-198-N006	6	
CD000103	CDLN-100-SCPC-14-198-N012	12	

LOGIC ELEMENT

# CDLN-100-SCPC

NORMALLY CLOSED  
SPOOL TYPE  
ADJUSTABLE SETTING

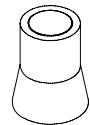


## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Cavity:	VP000198
Weight:	0,19 kg
Spool:	Ø10 mm

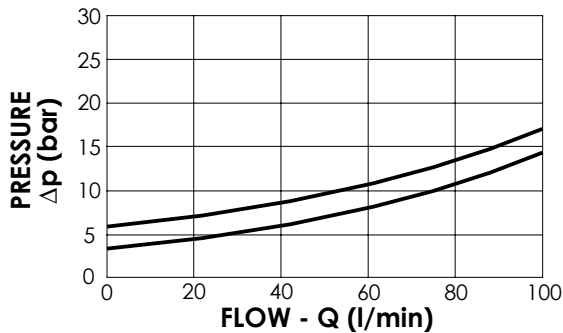
## SEALING CAP

Ordering code:  
AT000020



## NOTES

Installation torque:	75 - 85 Nm
Seal kit:	RD700198
Parts in body compensator	



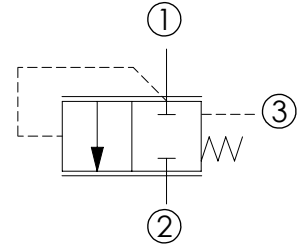
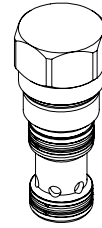
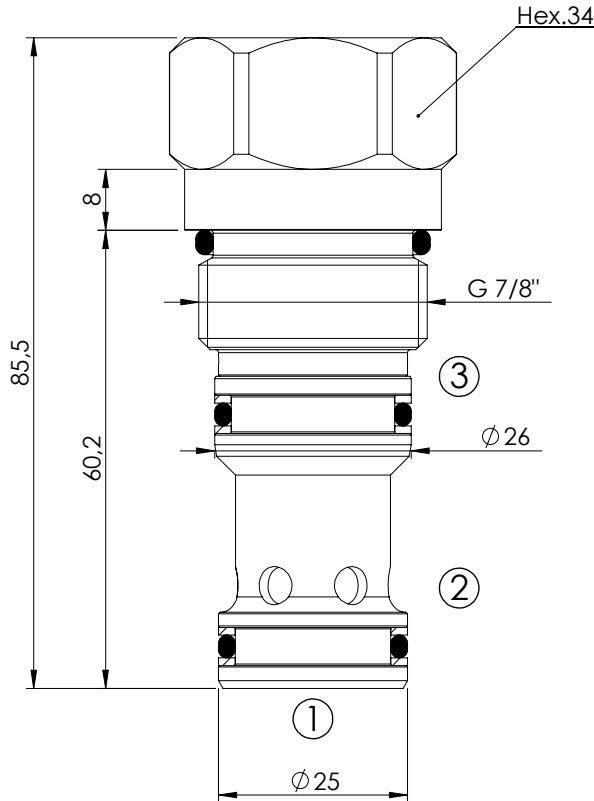
## ORDERING CODES

Quick code	Description	Setting range (bar)	
CD000358	CDLN-100-SCPC-01-198-H020	10 - 20	

LOGIC ELEMENT

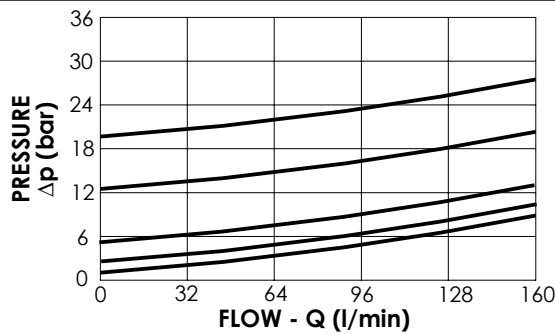
# CDLN-160-SCTC

NORMALLY CLOSED  
SPOOL TYPE



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	160 l/min
Cavity:	VP000065
Weight:	0,33 kg
Spool:	Ø16 mm



## NOTES

Installation torque:	135-145 Nm
Seal kit:	RD900065
Parts in body compensator	

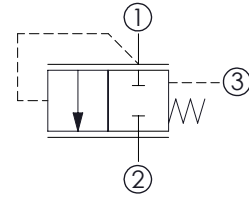
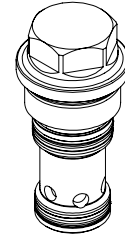
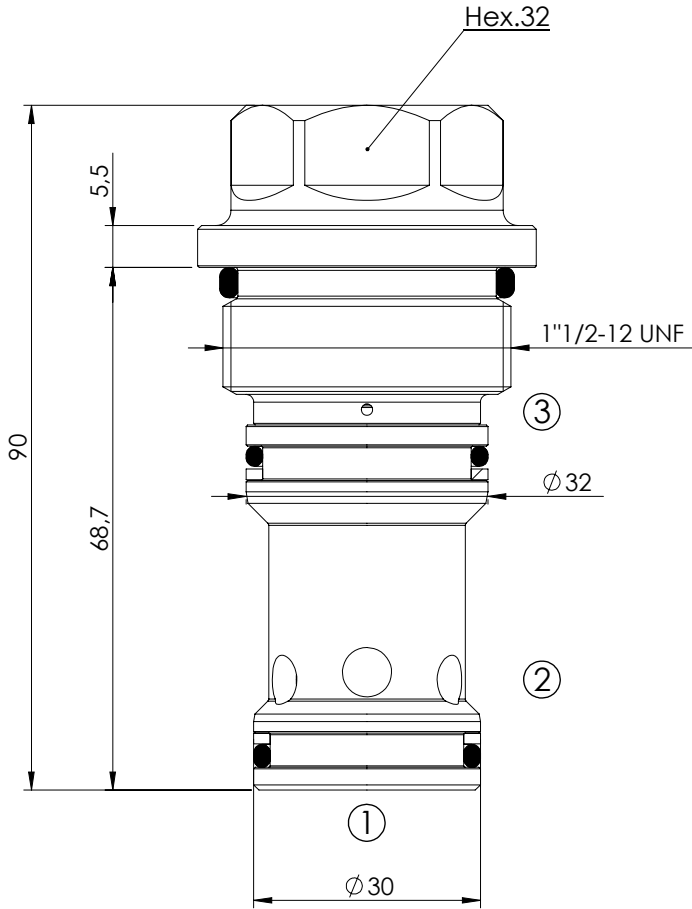
## ORDERING CODES

Quick code	Description	Cracking pressure (bar)	
CD000158	CDLN-160-SCTC-14-065-N000	0,4	
CD000076	CDLN-160-SCTC-14-065-N002	2	
CD000051	CDLN-160-SCTC-14-065-N005	5,5	
CD000147	CDLN-160-SCTC-14-065-N012	12,5	
CD000248	CDLN-160-SCTC-14-065-N020	20,5	

LOGIC ELEMENT

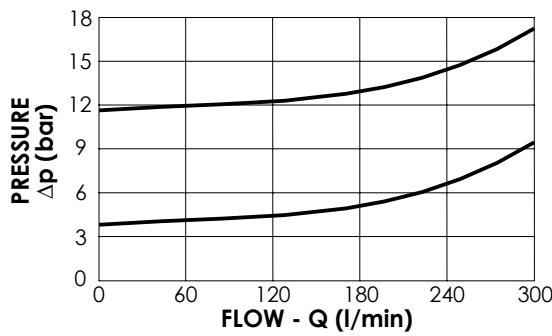
**CDLN-300-SCTC**

**NORMALLY CLOSED  
SPOOL TYPE**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	300 l/min
Cavity:	VP000058
Weight:	0,57 kg
Spool:	$\varnothing 19$ mm



**NOTES**

Installation torque:	260-280 Nm
Seal kit:	RC700058
Parts in body compensator	

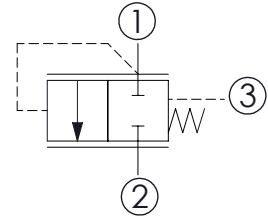
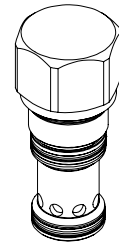
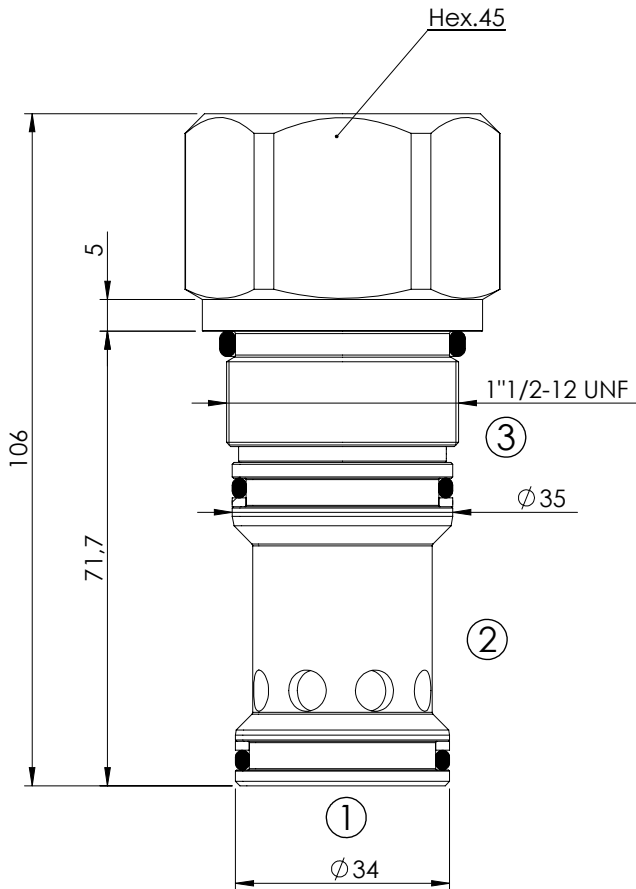
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	
CD000096	CDLN-300-SCTC-14-058-N004	4	
CD000311	CDLN-300-SCTC-14-058-N012	11,5	

LOGIC ELEMENT

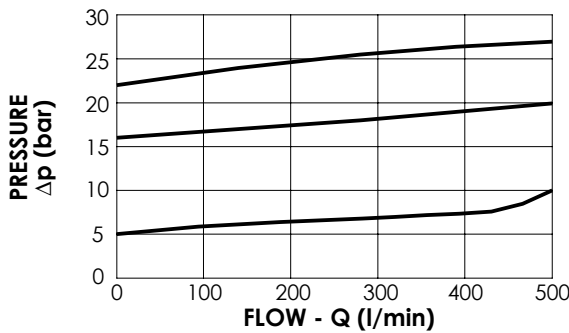
# CDLN-500-SCTC

NORMALLY CLOSED  
SPOOL TYPE



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	500 l/min
Cavity:	VP000178
Weight:	0,75 kg
Spool:	Ø22 mm



## NOTES

Installation torque:	280-300 Nm
Seal kit:	RC700178
Parts in body compensator	

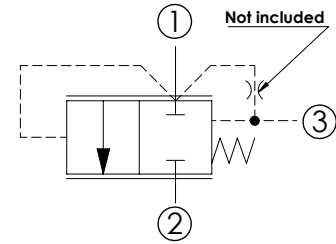
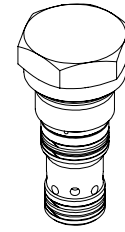
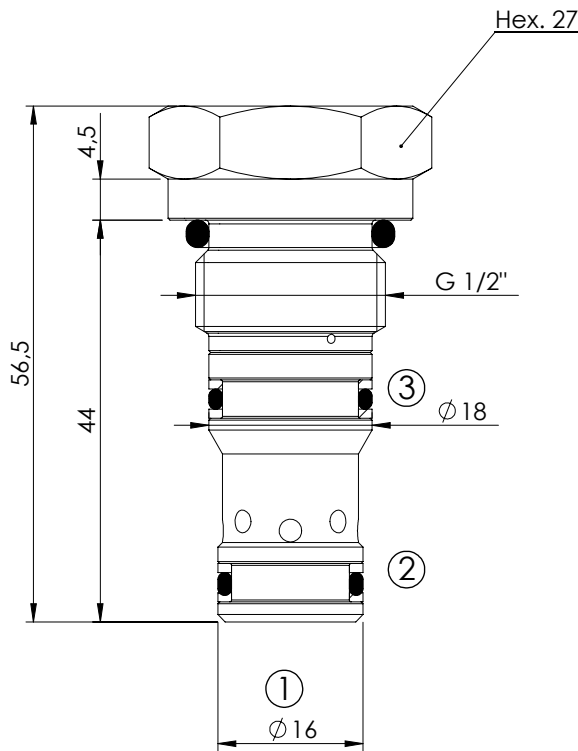
## ORDERING CODES

Quick code	Description	Cracking pressure (bar)	
CD000053	CDLN-500-SCTC-14-178-N005	5	
CD000255	CDLN-500-SCTC-14-178-N017	17	
CD000308	CDLN-500-SCTC-14-178-N023	23	

LOGIC ELEMENT

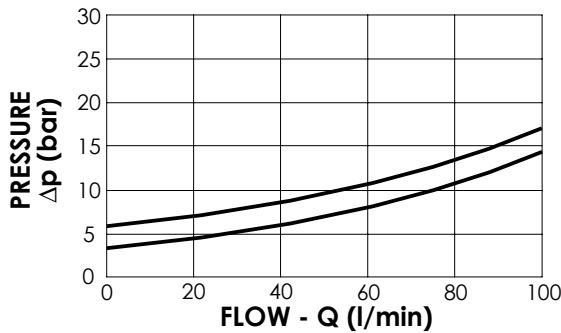
# CDLN-100-SCPD

**NORMALLY CLOSED  
SPOOL TYPE  
WITH INTERNAL ORIFICE**



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Cavity:	VP000198
Weight:	0,12 kg
Spool:	Ø10 mm
Internal orifice:	M5 thread



## NOTES

Installation torque:	75 - 85 Nm
Seal kit:	RD700198
Parts in body compensator	

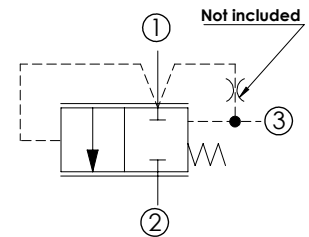
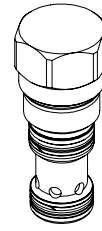
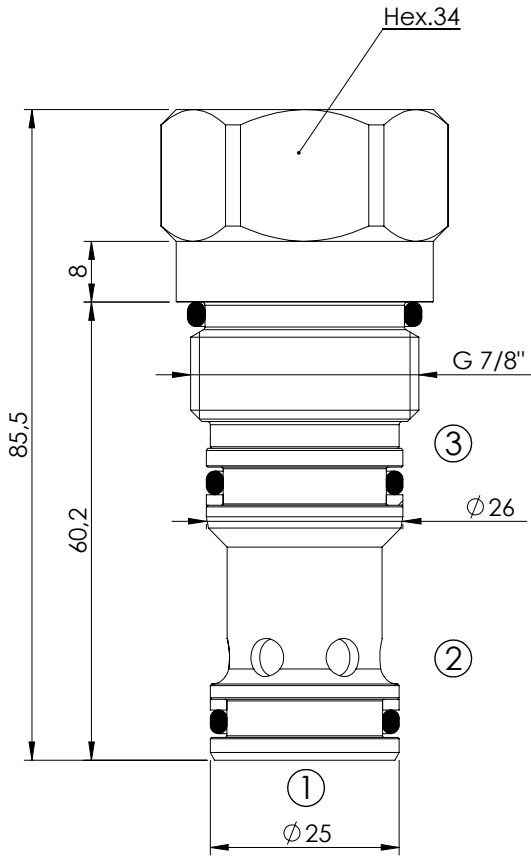
## ORDERING CODES

Quick code	Description	Cracking pressure (bar)	
CD000216	CDLN-100-SCPD-13-198-N003	3	
CD000215	CDLN-100-SCPD-13-198-N006	6	
CD000220	CDLN-100-SCPD-13-198-N012	12	
CD000238	CDLN-100-SCPD-13-198-N016	16	

LOGIC ELEMENT

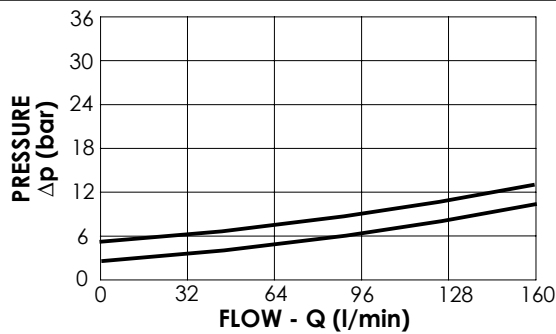
# CDLN-160-SCTD

**NORMALLY CLOSED  
SPOOL TYPE  
INTERNAL ORIFICE**



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	160 l/min
Cavity:	VP000065
Weight:	0,32 kg
Spool:	Ø16 mm
Internal orifice:	M6 thread



## NOTES

Installation torque:	135-145 Nm
Seal kit:	RC900065
Parts in body compensator	

## ORDERING CODES

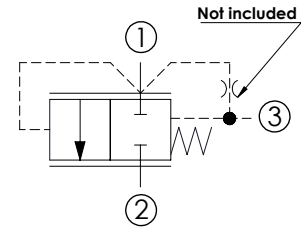
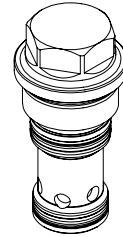
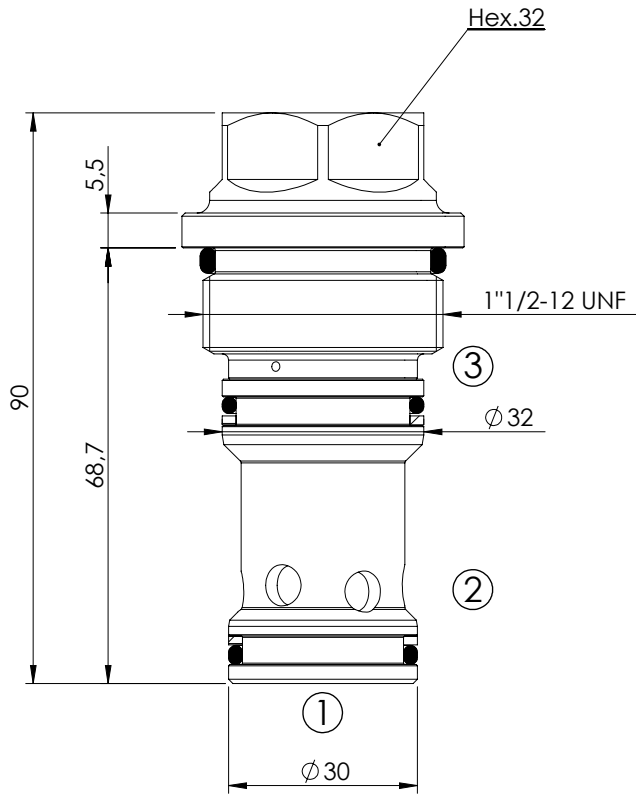
Quick code	Description	Cracking pressure (bar)	
CD000081	CDLN-160-SCTD-13-065-N002	2	
CD000066	CDLN-160-SCTD-13-065-N006	6	
CD000003	CDLN-160-SCTD-13-065-N012	12	
CD000004	CDLN-160-SCTD-13-065-N016	16	



LOGIC ELEMENT

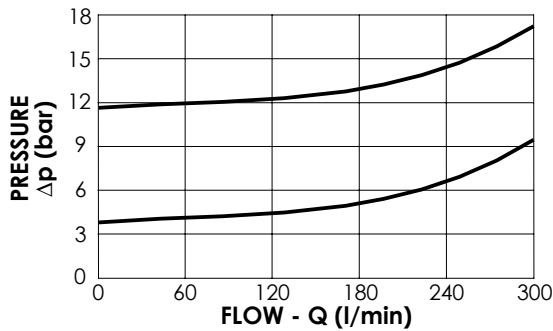
# CDLN-300-SCTD

NORMALLY CLOSED  
SPOOL TYPE  
INTERNAL RESTRICTOR



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	300 l/min
Cavity:	VP000058
Weight:	0,55 kg
Spool:	Ø19 mm
Internal orifice:	M6 thread



## NOTES

Installation torque:	280-300 Nm
Seal kit:	RC700058
Parts in body compensator	

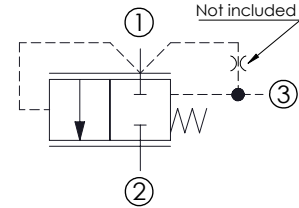
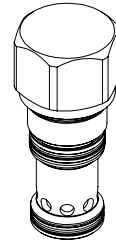
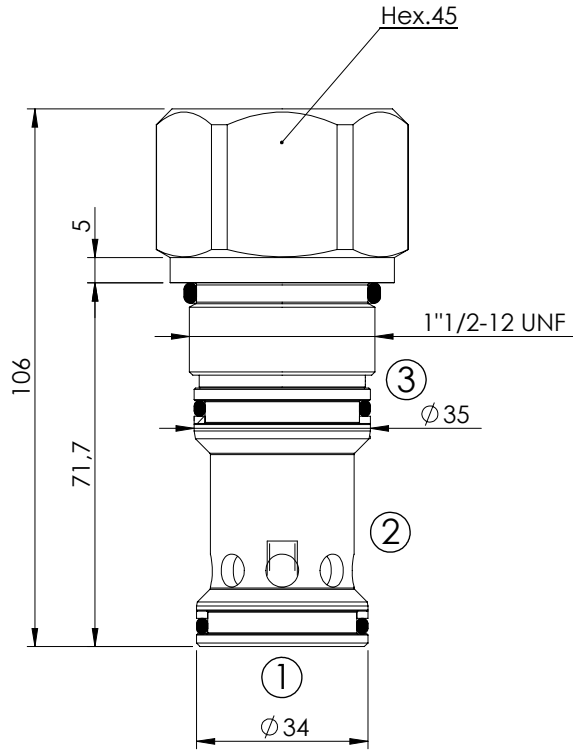
## ORDERING CODES

Quick code	Description	Cracking pressure (bar)	
CD000095	CDLN-300-SCTD-13-058-N001	1,5	
CD000110	CDLN-300-SCTD-13-058-N004	4	

LOGIC ELEMENT

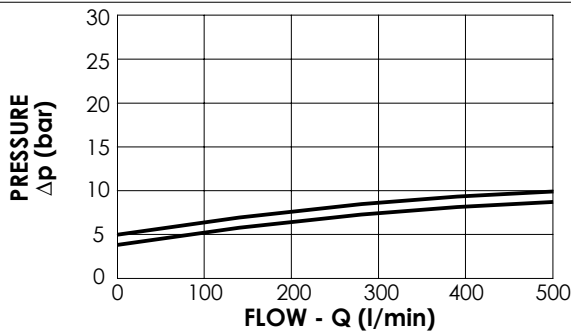
# CDLN-500-SCTD

**NORMALLY CLOSED  
SPOOL TYPE  
INTERNAL ORIFICE**



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	500 l/min
Cavity:	VP000178
Weight:	0,74 kg
Spool:	Ø22 mm
Internal orifice:	M6 thread



## NOTES

Installation torque:	180-250 Nm
Seal kit:	RC700178
Parts in body compensator	

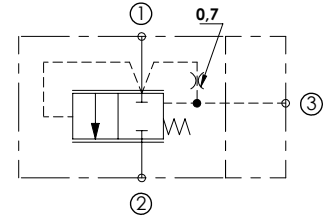
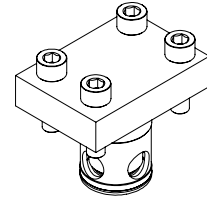
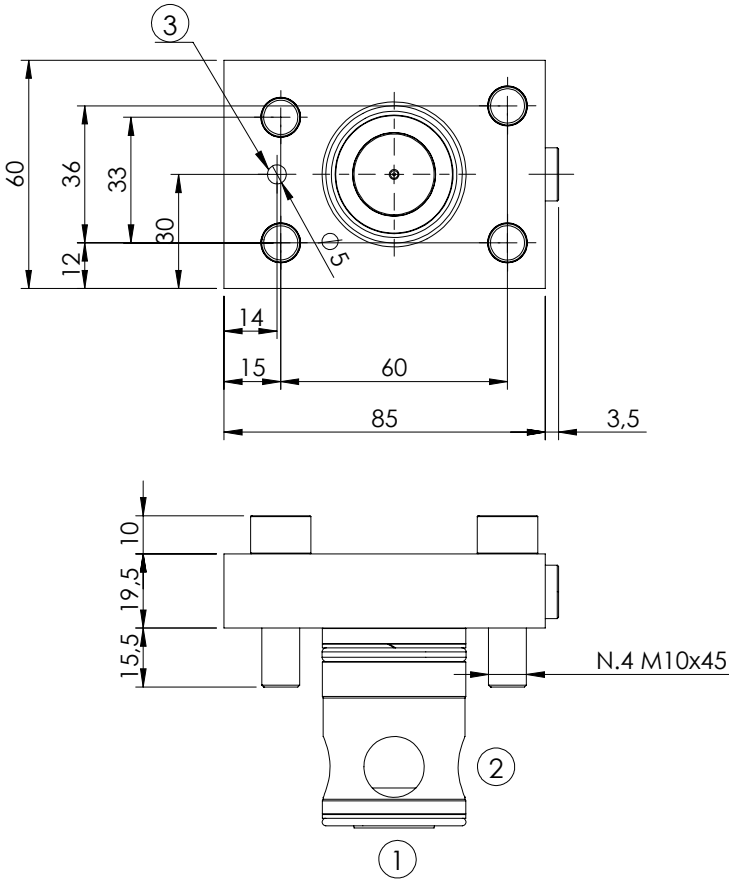
## ORDERING CODES

Quick code	Description	Cracking pressure (bar)	
CD000067	CDLN-500-SCTD-13-178-N005	5	
CD000335	CDLN-500-SCTD-13-178-N004	4	

LOGIC ELEMENTS

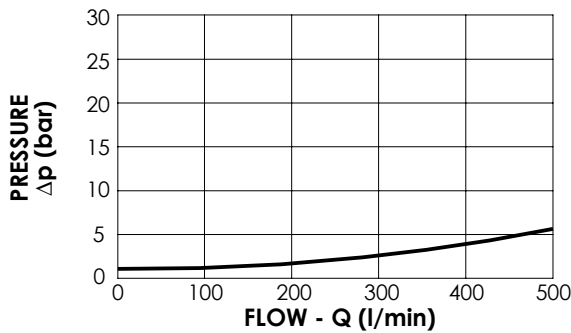
**CDLN-500-PCPS**

**NORMALLY CLOSED  
POPPET TYPE  
EXTERNALLY PILOTED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	500 l/min
Cavity:	VP000189
Weight:	1,1 kg



**NOTES**

Seal kit:	RC700189
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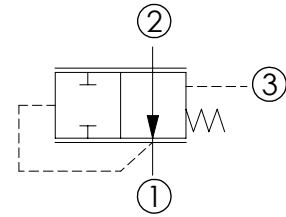
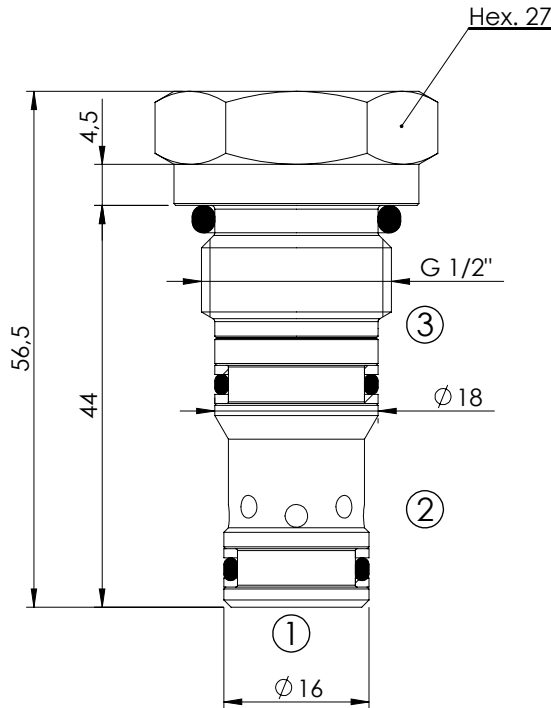
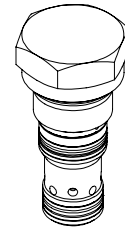
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=1 l/min)	Configuration
CD000376	CDLN-500-PCPS-01-189-N350	T: G1/8"	1	Logic element + cover
SC000049	SCLN-500-PCPS-01-189-N350			Logic element

LOGIC ELEMENT

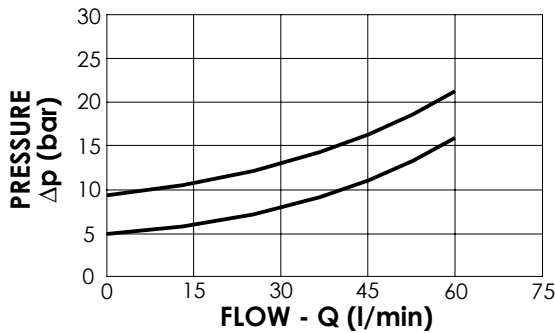
**CDLN-060-SCPR**

**NORMALLY OPEN  
SPOOL TYPE**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	VP000198
Weight:	0,12 kg
Spool:	Ø10 mm



**NOTES**

Installation torque:	75 - 85 Nm
Seal kit:	RD700198
Parts in body compensator	

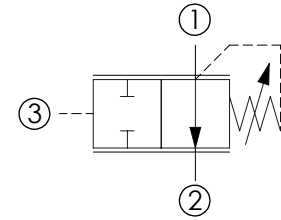
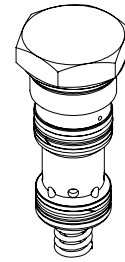
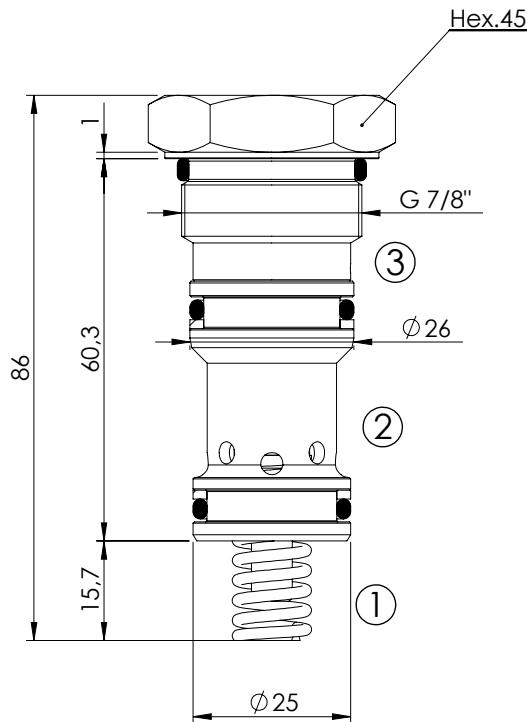
**ORDERING CODES**

Quick code	Description	Closing pressure (bar)	
CD000078	CDLN-060-SCPR-11-198-N005	5	
CD000184	CDLN-060-SCPR-11-198-N009	9,5	

LOGIC ELEMENT

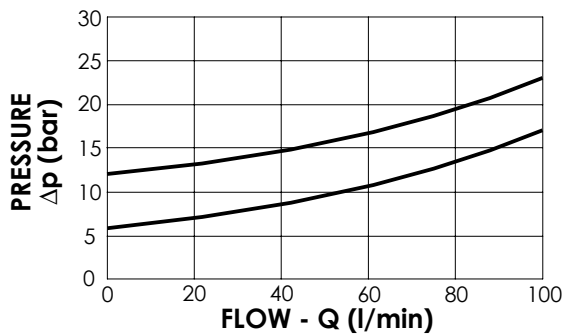
# CDLN-100-SBPE

NORMALLY OPEN  
SPOOL TYPE



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Cavity:	VP000330
Weight:	0,27 kg
Spool:	$\phi 16$ mm



## NOTES

Installation torque:	135-145 Nm
Seal kit:	RC700330
Parts in body compensator	

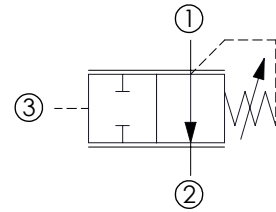
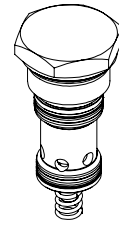
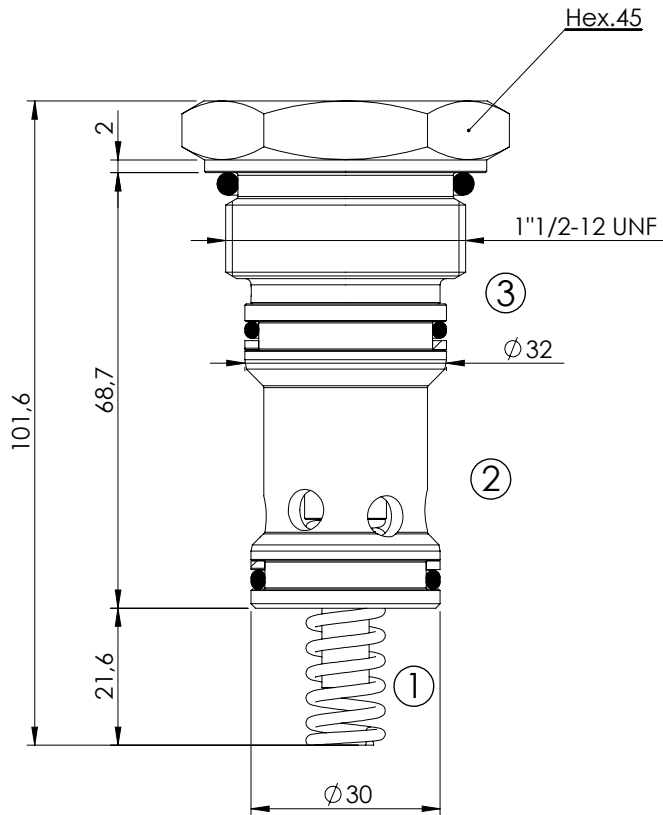
## ORDERING CODES

Quick code	Description	Closing pressure (bar)	
CD000115	CDLN-100-SBPE-01-065-N005	5	

LOGIC ELEMENT

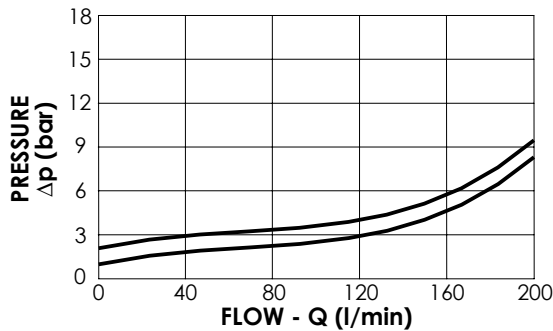
# CDLN-200-SBPE

NORMALLY OPEN  
SPOOL TYPE



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	200 l/min
Cavity:	VP000204
Weight:	0,50 kg
Spool:	$\phi 19$ mm



## NOTES

Installation torque:	220-300 Nm
Seal kit:	RC700204
Parts in body compensator	

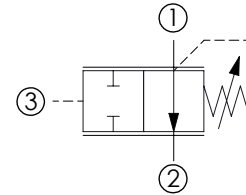
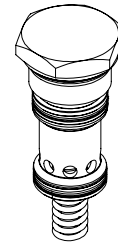
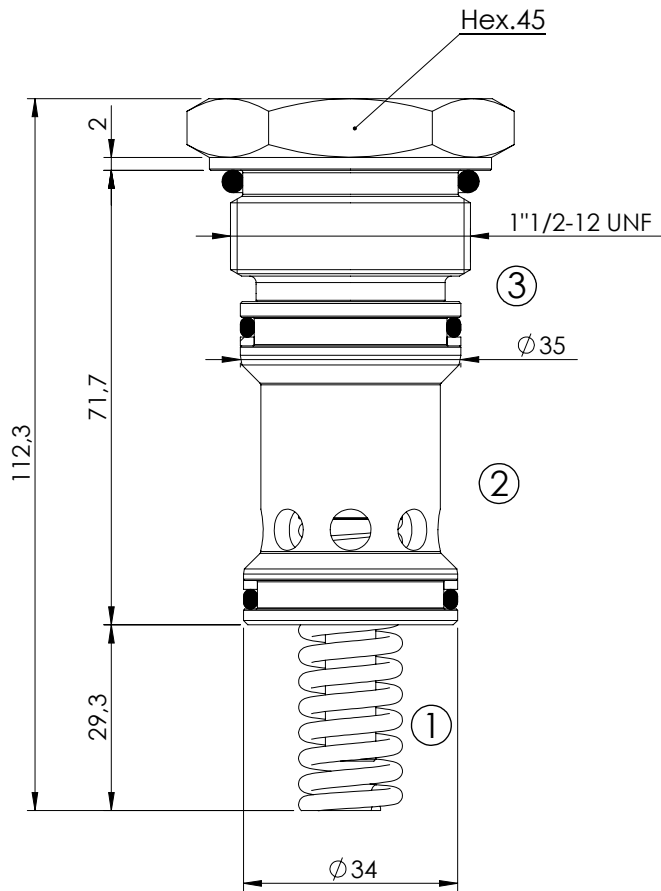
## ORDERING CODES

Quick code	Description	Closing pressure (bar)	
CD000080	CDLN-200-SBPE-01-204-N001	1	
CD000286	CDLN-200-SBPE-01-204-N002	2	

LOGIC ELEMENT

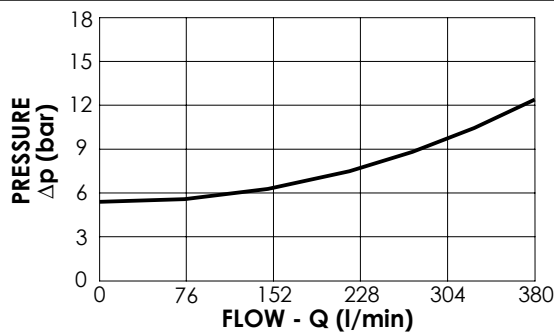
# CDLN-380-SBPE

NORMALLY OPEN  
SPOOL TYPE



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	380 l/min
Cavity:	VP000330
Weight:	0,57 kg
Spool:	Ø22 mm



## NOTES

Installation torque:	220-300 Nm
Seal kit:	RC700330
Parts in body compensator	

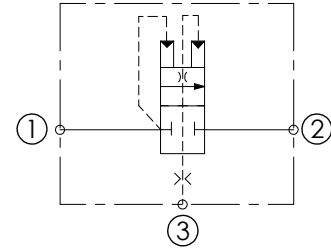
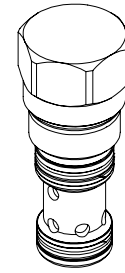
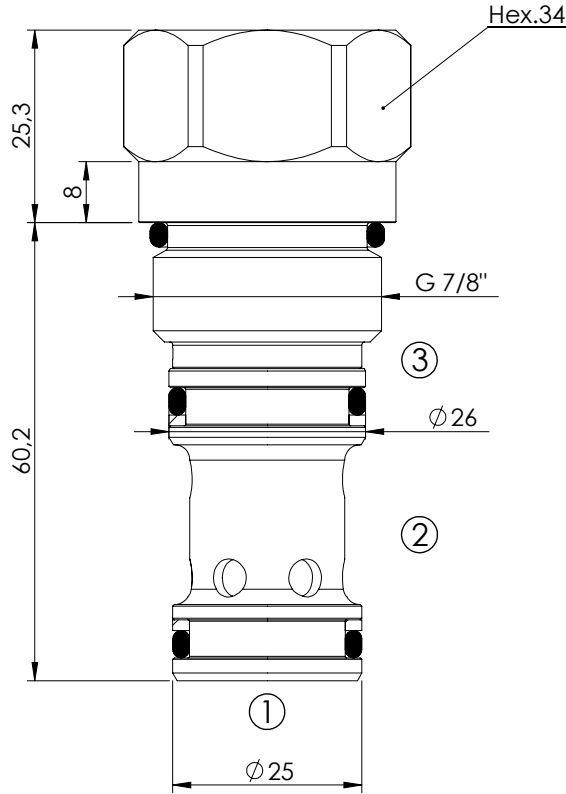
## ORDERING CODES

Quick code	Description	Cracking pressure (bar)	
CD000189	CDLN-380-SBPE-01-330-N005	5,5	

LOGIC ELEMENT

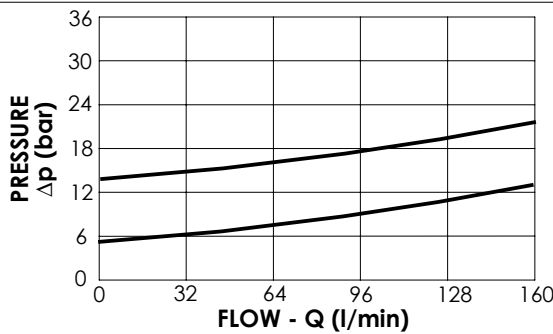
# CDLN-160-SCTS

NORMALLY CLOSED  
SPOOL TYPE  
KICK DOWN TYPE



## SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	160 l/min
Cavity:	VP000065
Weight:	0,33 kg
Spool:	$\phi 16$ mm



## NOTES

Installation torque:	140 - 150 Nm
Seal kit:	RC900065
Parts in body compensator	

## ORDERING CODES

Quick code	Description	Cracking pressure (bar)	
CD000298	CDLN-160-SCTS-01-065-N005	5	
CD000299	CDLN-160-SCTS-01-065-N014	14	



**SECTION 12**

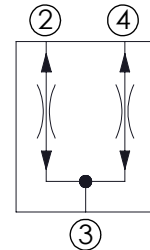
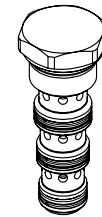
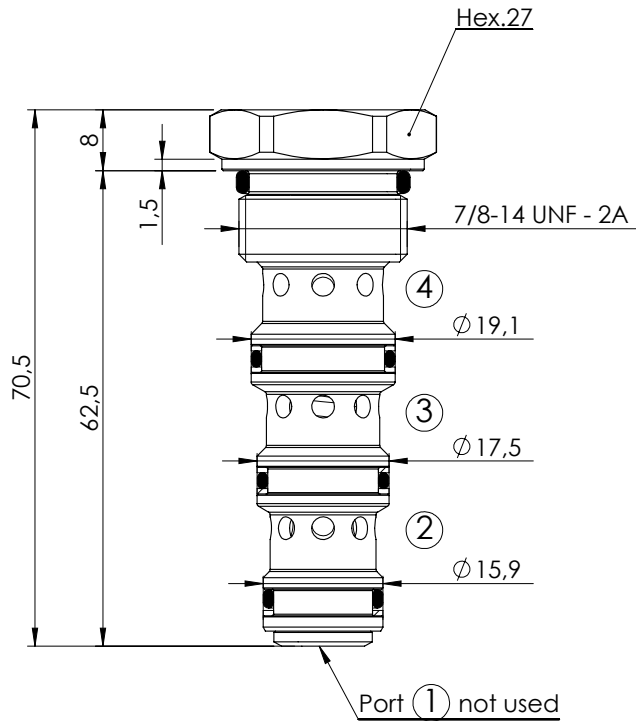
**FLOW DIVIDERS AND COMBINERS**



Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	CFDT-055-BRAR	Spool type, divider and combiner	55	350	Cartridge	SAE-10-4N	12.01.010
	CFDT-160-BRAR	Spool type, divider and combiner	160	350	Cartridge	SAE-16-4N	12.01.020
	MFDT-040-BFTR	Spool type, divider and combiner	40	210	In line	G 3/8"	12.02.030
	MFDT-040-BFTR	Spool type, divider and combiner	40	210	In line	G 1/2"	12.02.030
	MFDT-150-BFLR	Spool type, divider and combiner	150	210	In line	G 3/4"	12.02.040
	MFDT-150-BFLR	Spool type, divider and combiner	150	210	In line	G 1/2"	12.02.040
	KFDT-055-BFAR	Spool type, divider and combiner	55	210	In line	G 1/4"	12.02.050
	KFDT-055-BFAR	Spool type, divider and combiner	40	210	In line	G 3/8"	12.02.050
	KFDT-055-BFAR	Spool type, divider and combiner	55	210	In line	G 1/2"	12.02.050

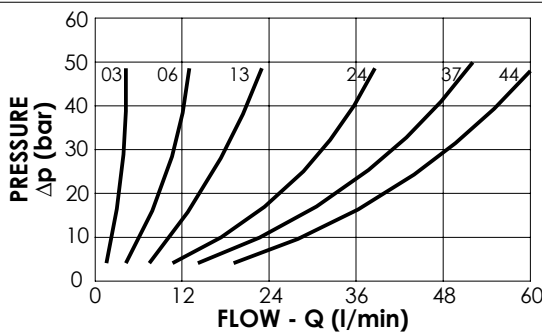
**FLOW DIVIDER AND COMBINER**

**CFDT-055-BFRR**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Division or combination:	50%-50%
Cavity:	SAE-10-4N -3P
Weight:	0,13 kg
Installation torque:	40 - 65 Nm



**NOTES**

Seal kit: **RB700102**

Flow divider accuracy:  $\pm 7/8\%$  between 40-100% of max. input flow

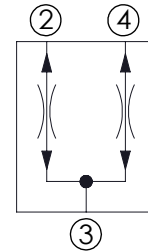
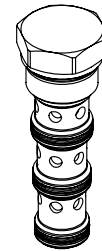
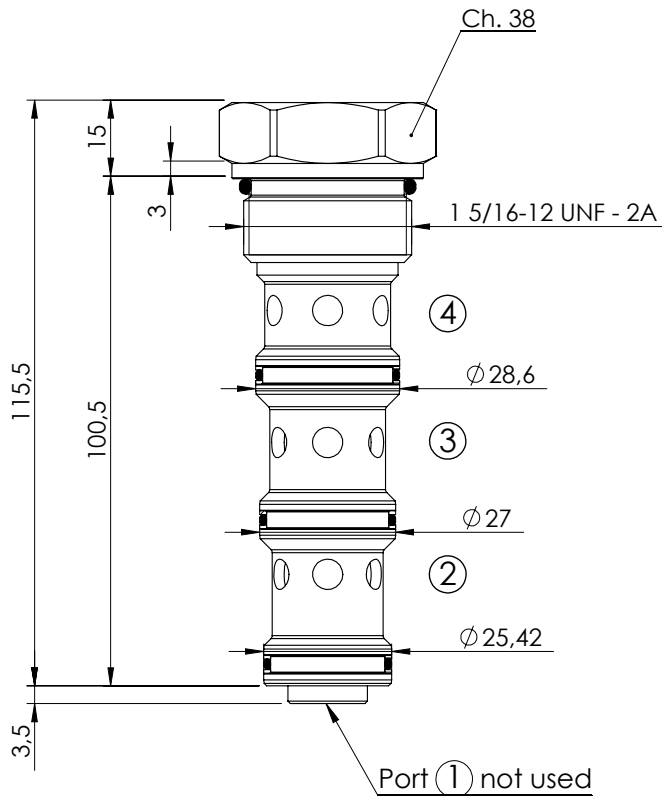
- Other dividing ratios available.

**ORDERING CODES**

Quick code	Description	Inlet range Flow (l/min)	
CF000047	CFDT-055-BFRR-03-S10-N350	1,2-3	
CF000048	CFDT-055-BFRR-06-S10-N350	3-6	
CF000049	CFDT-055-BFRR-13-S10-N350	6-13	
CF000050	CFDT-055-BFRR-24-S10-N350	10-24	
CF000001	CFDT-055-BFRR-37-S10-N350	15-37	
CF000051	CFDT-055-BFRR-44-S10-N350	18-44	

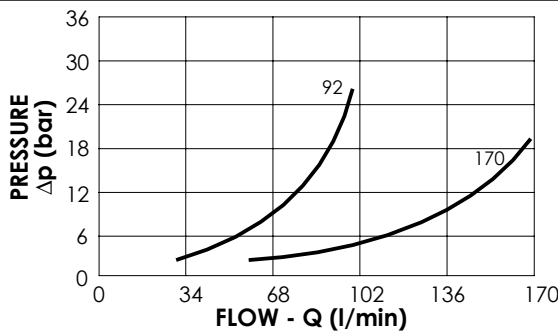
**FLOW DIVIDER AND COMBINER**

**CFDT-160-BFRR**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Division or combination:	50%-50%
Cavity:	SAE-16-4N
Weight:	0,36 kg
Installation torque:	145 - 170 Nm



**NOTES**

Seal kit: **RB700104**

Flow divider accuracy:  $\pm 7/8\%$  between 40-100% of max. input flow

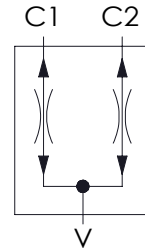
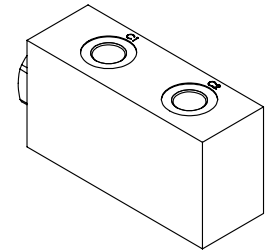
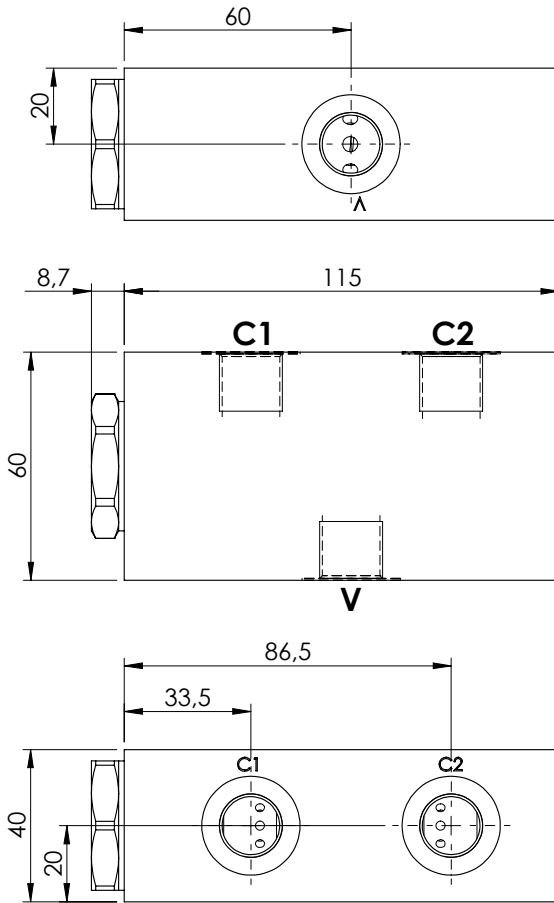
- Other dividing ratios available.

**ORDERING CODES**

Quick code	Description	Inlet range Flow (l/min)	
CF000142	CFDT-160-BFRR-92-S16-N350	28 - 92	
CF000144	CFDT-160-BFRR-170-S16-N350	48 - 170	

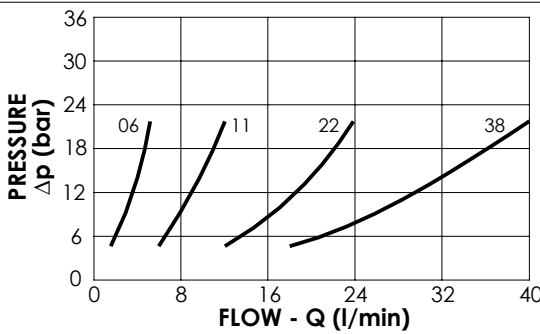
**FLOW DIVIDER AND COMBINER**

**MFDT-040-BFTR**



**SPECIFICATIONS**

Max. operating pressure:	210 bar
Division or combination:	50% - 50%
Manifold:	Aluminium
Weight:	0,88 kg
Cavity:	VP000242



**NOTES**

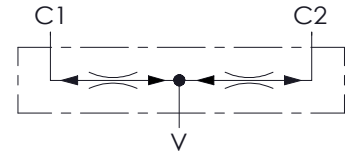
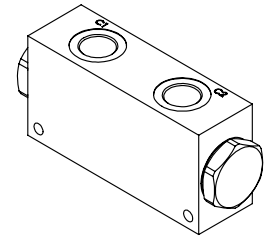
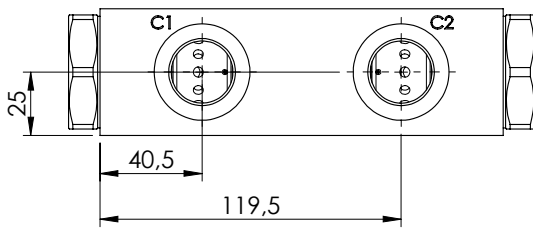
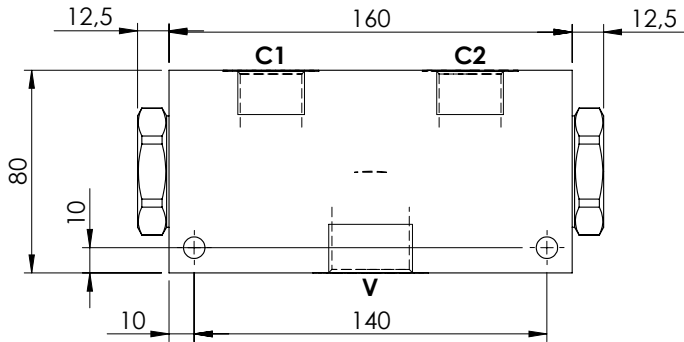
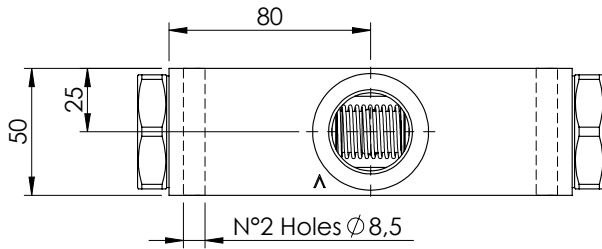
Flow divider accuracy:  $\pm 4/5\%$  between 40-100% of max. input flow

**ORDERING CODES**

Quick code	Description	Main ports size	Inlet range Flow (l/min)	
MF000076	MFDT-040-BFTR-06-G38-N210	V:G3/8" ; C1,C2:G 3/8"	2,8 - 5,8	
MF000077	MFDT-040-BFTR-11-G38-N210	V:G3/8" ; C1,C2:G 3/8"	6,5 - 11	
MF000078	MFDT-040-BFTR-22-G38-N210	V:G3/8" ; C1,C2:G 3/8"	13 - 22	
MF000075	MFDT-040-BFTR-38-G38-N210	V:G3/8" ; C1,C2:G 3/8"	25 - 38	
MF000080	MFDT-040-BFTR-06-G12-N210	V:G1/2" ; C1,C2:G 3/8"	2,8 - 5,8	
MF000081	MFDT-040-BFTR-11-G12-N210	V:G1/2" ; C1,C2:G 3/8"	6,5 - 11	
MF000082	MFDT-040-BFTR-22-G12-N210	V:G1/2" ; C1,C2:G 3/8"	13 - 22	
MF000079	MFDT-040-BFTR-38-G12-N210	V:G1/2" ; C1,C2:G 3/8"	25 - 38	

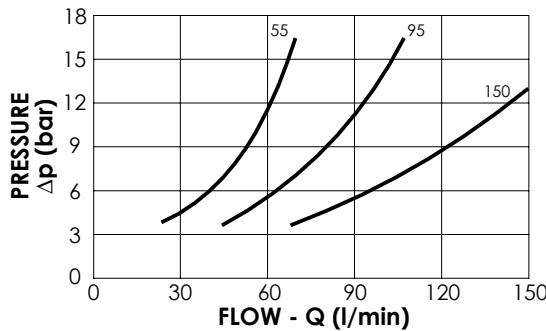
**FLOW DIVIDER AND COMBINER**

**MFDT-150-BFLR**



**SPECIFICATIONS**

Max. operating pressure:	210 bar
Division or combination:	50% - 50%
Manifold:	Aluminium
Weight:	2,1 kg



**NOTES**

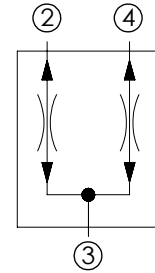
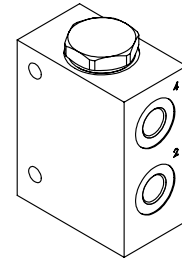
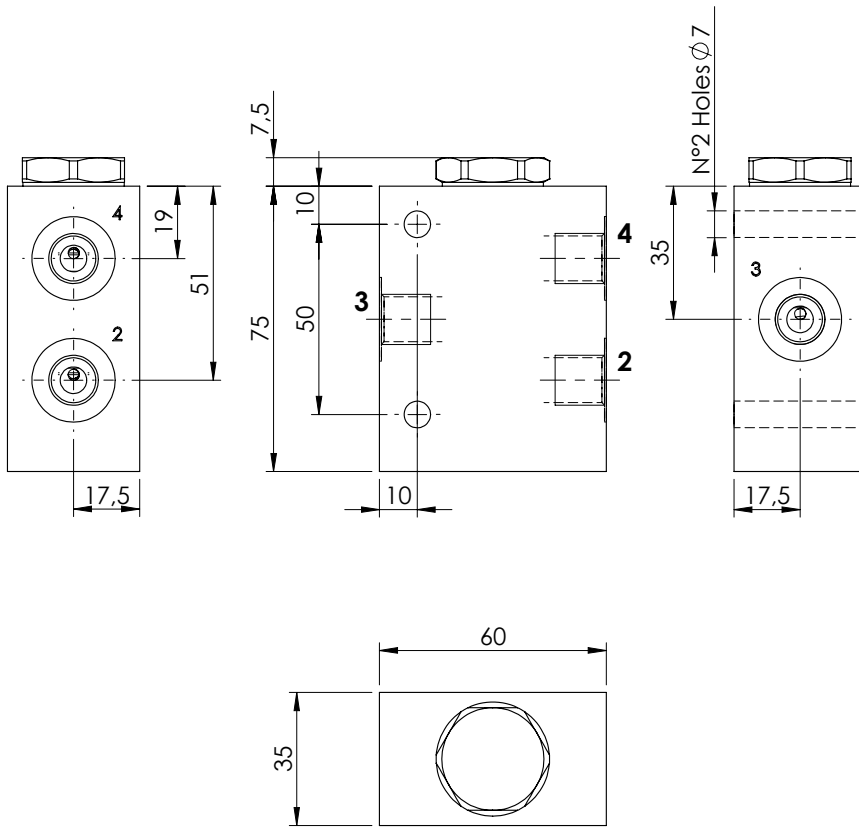
Flow divider accuracy:  $\pm 4-5\%$  between 40-100% of max. input flow

**ORDERING CODES**

Quick code	Description	Main ports size	Inlet range Flow (l/min)	
MF000117	MFDT-150-BFLR-95-G10-N210	V: G 1" C1,C2: G 3/4"	56 - 95	
MF000118	MFDT-150-BFLR-15-G10-N210	V: G 1" C1,C2: G 3/4"	90 - 150	
MF000122	MFDT-150-BFLR-55-G34-N210	V: G 3/4" C1,C2: G 1/2"	28 - 55	
MF000123	MFDT-150-BFLR-95-G34-N210	V: G 3/4" C1,C2: G 1/2"	56 - 95	

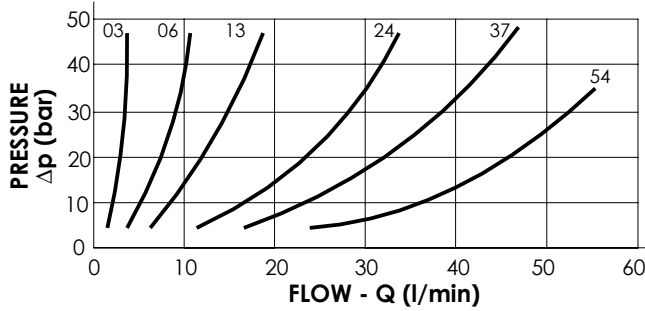
**FLOW DIVIDER AND COMBINER**

**KFDT-055-BFAR**



**SPECIFICATIONS**

Max. operating pressure:	210 bar
Division or combination:	50%-50%
Manifold:	Aluminium
Weight:	0,46 kg
Size:	SAE-10-4N



**NOTES**

Flow divider accuracy:  $\pm 7/8\%$  between 40-100% of max. input flow

**ORDERING CODES**

Quick code	Description	Main ports size	Inlet range Flow (l/min)
KF000005	KFDT-055-BFAR-03-G14-N210-L	2,3,4 : G 1/4"	1.2-3
KF000006	KFDT-055-BFAR-06-G14-N210-L	2,3,4 : G 1/4"	3-6
KF000007	KFDT-055-BFAR-13-G14-N210-L	2,3,4 : G 1/4"	6-13
KF000010	KFDT-055-BFAR-13-G38-N210-L	2,3,4 : G 3/8"	6-13
KF000011	KFDT-055-BFAR-24-G38-N210-L	2,3,4 : G 3/8"	10-24
KF000012	KFDT-055-BFAR-37-G38-N210-L	2,3,4 : G 3/8"	15-37
KF000009	KFDT-055-BFAR-37-G12-N210-L	2,3,4 : G 1/2"	15-37
KF000008	KFDT-055-BFAR-44-G12-N210-L	2,3,4 : G 1/2"	18-44
KF000004	KFDT-055-BFAR-54-G12-N210-L	2,3,4 : G 1/2"	22-54

**SECTION 13**



**FLOW CONTROL VALVES**

Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	CFFN-015-MFSR	Disk type, double mounting	15	350	Insert	G 1/4"	13.01.010
	CFFN-030-MFSR	Disk type, double mounting	30	350	Insert	G 3/8"	13.01.020
	CFFN-070-MFSR	Disk type, double mounting	70	350	Insert	G 1/2"	13.01.030
	CDFN-010-PSNC	Poppet type	10	350	Sleeve	G 1/4"	13.02.040
	CFSN-040-MHRR	Not compensated	40	350	Cartridge	SAE-08-2N	13.03.050
	CFSN-040-BHRR	Not compensated	40	350	Cartridge	SAE-08-2N	13.04.060
	CFSN-070-BHRR	Not compensated	70	350	Cartridge	SAE-10-2N	13.04.070
	CFHN-030-MHST	Hose burst valve	29	350	Insert	G 1/4"	13.05.080
	CFHN-050-MHST	Hose burst valve	45	350	Insert	G 3/8"	13.05.080
	CFHN-070-MHST	Hose burst valve	67	350	Insert	G 1/2"	13.05.080
	CFHN-170-MHST	Hose burst valve	169	350	Insert	G 3/4"	13.05.080
	CFHN-230-MHST	Hose burst valve	223	350	Insert	G 1"	13.05.080
	CFST-010-MDST	Two ways compensated	10	350	Insert	G 1/4"	13.06.090
	CFST-025-MDST	Two ways compensated	25	350	Insert	G 3/8"	13.06.090
	CFST-070-MDST	Two ways compensated	67	350	Insert	G 1/2"	13.06.090
	CFST-150-MDST	Two ways compensated	150	350	Insert	G 3/4"	13.06.090
	CFCT-060-MHRR	Three ways combination	60	350	Cartridge	SAE-10-3N	13.07.100
	CFPT-100-MVRR	Three ways combination	100	350	Cartridge	SAE-16-3N	13.08.110
	MFST-030-RVTR-30	Two ways compensated	30	210-350	In line	G 3/8"	13.09.120
	MFST-055-RVTR-55	Two ways compensated	55	210-350	In line	G 1/2"	13.09.130
	MFST-090-RPTR	Two ways compensated	90	210	In line	G 1/2"	13.09.140
	MFST-090-RVTR-90	Two ways compensated	90	210-350	In line	G 3/4"	13.09.150
	MFST-280-RVTR-19	Two ways compensated	280	210-350	In line	G 1"	13.09.160
	MFCT-055-RVTR-30	Three ways compensated	55	210-350	In line	G 3/8"	13.10.170
	MFCT-090-RVTR-55	Three ways compensated	90	210-350	In line	G 1/2"	13.10.180
	MFCT-090-RPZR	Three ways compensated	90	210	In line	G 1/2"	13.10.190
	MFCT-150-RVTR-90	Three ways compensated	150	210-350	In line	G 3/4"	13.10.200
	MFCT-280-RVTR-19	Three ways compensated	280	210-350	In line	G 1"	13.10.210
	MFPT-090-RVTR	Pressure compensated, priority flow regulator	90	210	In line	G 1/2"	13.11.220
	MFPT-090-RPZR	Pressure compensated, priority flow regulator	90	210	In line	G 1/2"	13.11.230
	MFCT-090-VPZR	Three ways compensated with check valve	90	210	In line	G 1/2"	13.12.240

SECTION 13

# FLOW CONTROL VALVES



Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	MFCT-090-LPZR	Three ways compensated with relief valve	90	210	In line	G 1/2"	13.12.250
	MFCT-090-TPZR	Three ways compensated by pass check valve	90	210	In line	G 1/2"	13.13.260
	MFCT-090-MPTR	Three ways with relief valve and electric unloading	90	210	In line	G 1/2"	13.14.270
	MFCT-280-MVTR	Three ways with relief valve and electric unloading	280	210	In line	G 1"	13.14.280
	BPNN-025-LLEU	Solenoid operated valves	25	350	In line	G 1/2"	13.15.290
	MFCT-150-LHTR	Three ways compensated with relief valve	150	210	In line	G 1"	13.16.300
	MFPT-100-RHAR	Pressure compensated, priority flow regulator	100	350	In line	G 1/2"	13.17.310
	MFPT-200-RHAR	Pressure compensated, priority flow regulator	200	350	In line	G 3/4"	13.18.320
	MFPT-300-RHAR	Pressure compensated, priority flow regulator	300	350	In line	G 1"	13.18.330
	MFPT-100-MHAR	Pressure compensated, priority flow regulator	100	350	In line	G 1/2"	13.19.340
	MFPT-200-MHAR	Pressure compensated, priority flow regulator	200	350	In line	G 3/4"	13.19.350
	MFPT-300-MHAR	Pressure compensated, priority flow regulator	300	350	In line	G 1"	13.19.360
	MFPT-400-MHAR	Pressure compensated, priority flow regulator	400	350	In line	G 1" 1/4	13.20.370
	MFTT-100-MHAR	Pressure compensated, priority flow regulator	2x100	350	In line	G 1/2"	13.21.380
	MFTT-200-MHAR	Pressure compensated, priority flow regulator	2x200	350	In line	G 3/4"	13.21.390
	MFTT-300-MHAR	Pressure compensated, priority flow regulator	2x300	350	In line	G 1"	13.21.400
	MFCZ-040-LSLR	Proportional valve, compensated	40	210	In line	G 3/8"	13.22.410
	MFCZ-040-LSLR	Proportional valve, compensated	30	210	In line	G 3/8"	13.22.410
	MFCZ-040-LSLR	Proportional valve, compensated	20	210	In line	G 3/8"	13.22.410



SECTION 13

# FLOW CONTROL VALVES

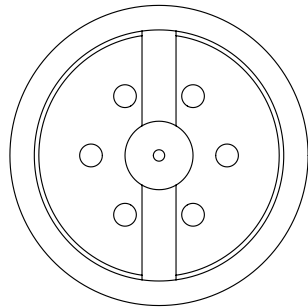
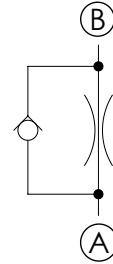
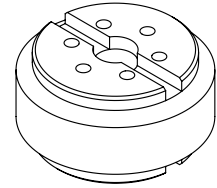
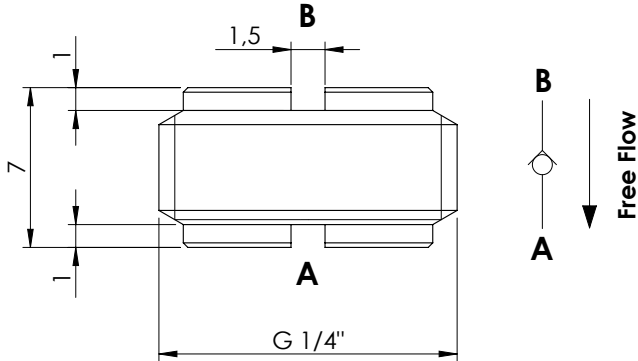


Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	MFPC-140-AMLR	Proportional valve, compensated	90	210	In line	G 1/2"	13.23.420
	MFPC-140-LMLR	Proportional valve, compensated	90	210	In line	G 1/2"	13.24.430
	MFPC-140-TMLR	Proportional valve, compensated	90	210	In line	G 1/2"	13.25.440
	MFPC-200-MMAR	Proportional valve, compensated	200	250	In line	G 3/4"	13.26.450

FLOW CONTROL VALVES

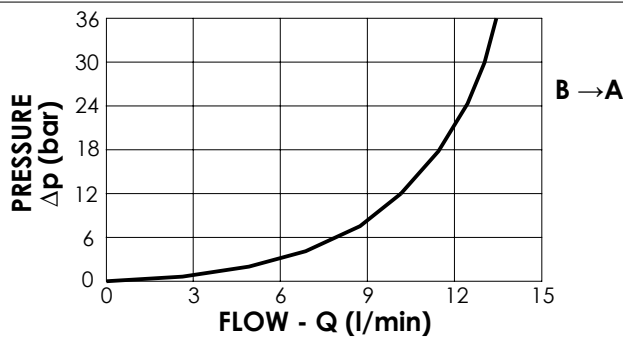
**CFFN-015-MFSR**

INSERT TYPE  
DOUBLE MOUNTING



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	15 l/min
Cavity:	G 1/4"
Weight:	0,01 kg
Installation torque:	5 Nm



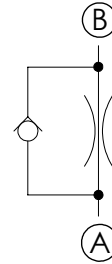
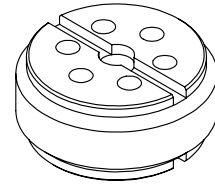
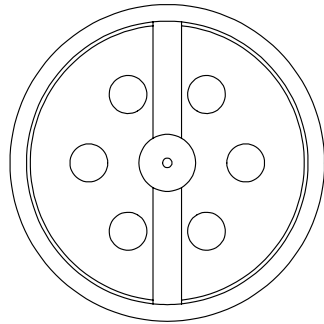
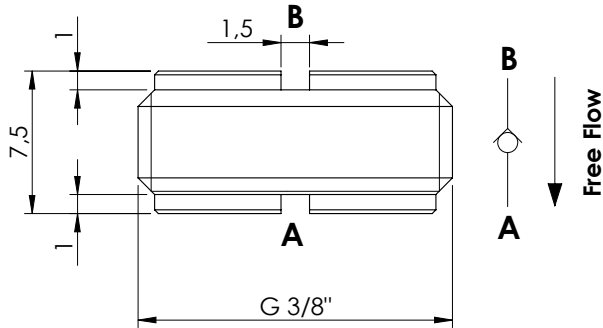
**ORDERING CODES**

Quick code	Description	Ø Orifice	Quick code	Description	Ø Orifice
CF000118	CFFN-015-MFSR-05-G14-N350	0,5	CF000205	CFFN-015-MFSR-13-G14-N350	1,3
CF000119	CFFN-015-MFSR-06-G14-N350	0,6	CF000206	CFFN-015-MFSR-14-G14-N350	1,4
CF000120	CFFN-015-MFSR-07-G14-N350	0,7	CF000123	CFFN-015-MFSR-15-G14-N350	1,5
CF000121	CFFN-015-MFSR-08-G14-N350	0,8	CF000207	CFFN-015-MFSR-16-G14-N350	1,6
CF000203	CFFN-015-MFSR-09-G14-N350	0,9	CF000208	CFFN-015-MFSR-17-G14-N350	1,7
CF000088	CFFN-015-MFSR-10-G14-N350	1	CF000209	CFFN-015-MFSR-18-G14-N350	1,8
CF000204	CFFN-015-MFSR-11-G14-N350	1,1	CF000210	CFFN-015-MFSR-19-G14-N350	1,9
CF000122	CFFN-015-MFSR-12-G14-N350	1,2	CF000124	CFFN-015-MFSR-20-G14-N350	2,0

FLOW CONTROL VALVES

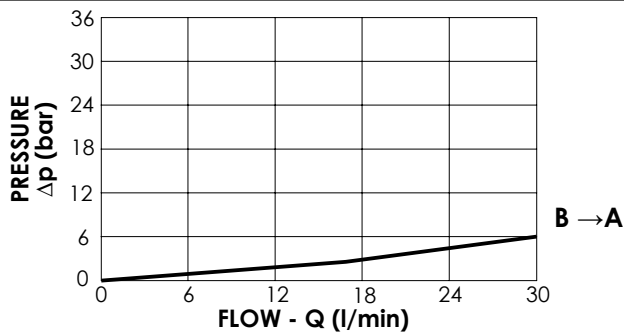
**CFFN-030-MFSR**

INSERT TYPE  
DOUBLE MOUNTING



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	G 3/8
Weight:	0,01 kg
Installation torque:	10 Nm



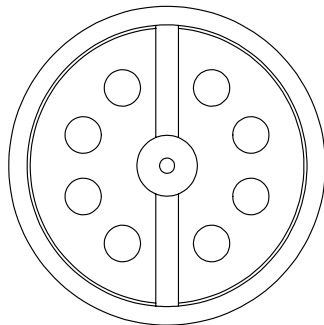
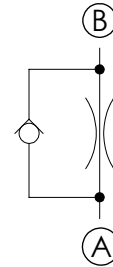
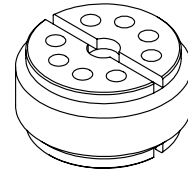
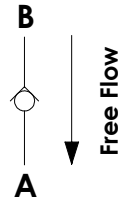
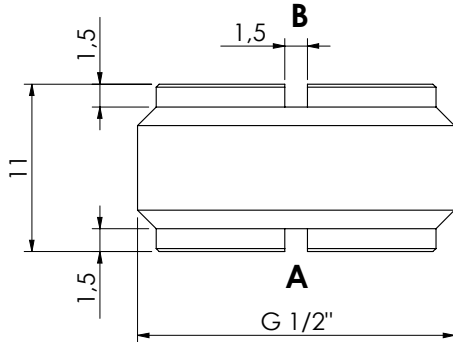
**ORDERING CODES**

Quick code	Description	Ø Orifice	Quick code	Description	Ø Orifice
CF000068	CFFN-030-MFSR-05-G38-N350	0,5	CF000197	CFFN-030-MFSR-13-G38-N350	1,3
CF000069	CFFN-030-MFSR-06-G38-N350	0,6	CF000198	CFFN-030-MFSR-14-G38-N350	1,4
CF000070	CFFN-030-MFSR-07-G38-N350	0,7	CF000074	CFFN-030-MFSR-15-G38-N350	1,5
CF000071	CFFN-030-MFSR-08-G38-N350	0,8	CF000199	CFFN-030-MFSR-16-G38-N350	1,6
CF000195	CFFN-030-MFSR-09-G38-N350	0,9	CF000200	CFFN-030-MFSR-17-G38-N350	1,7
CF000072	CFFN-030-MFSR-10-G38-N350	1	CF000201	CFFN-030-MFSR-18-G38-N350	1,8
CF000196	CFFN-030-MFSR-11-G38-N350	1,1	CF000202	CFFN-030-MFSR-19-G38-N350	1,9
CF000073	CFFN-030-MFSR-12-G38-N350	1,2	CF000125	CFFN-030-MFSR-20-G38-N350	2,0

FLOW CONTROL VALVES

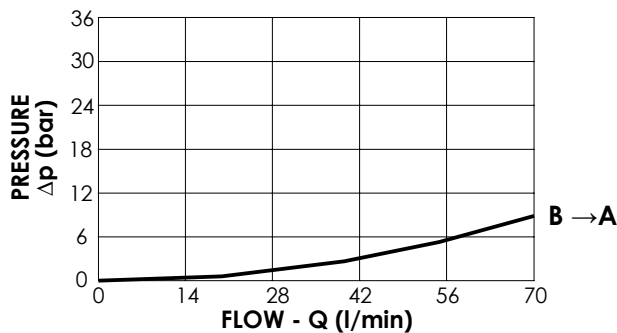
**CFFN-070-MFSR**

INSERT TYPE  
DOUBLE MOUNTING



**SPECIFICATIONS**

Max. operating pressure:	350bar
Rated flow:	70 l/min
Cavity:	G 1/2
Weight:	0,02 kg
Installation torque:	10 Nm



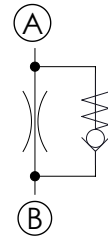
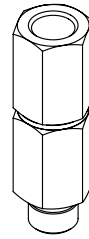
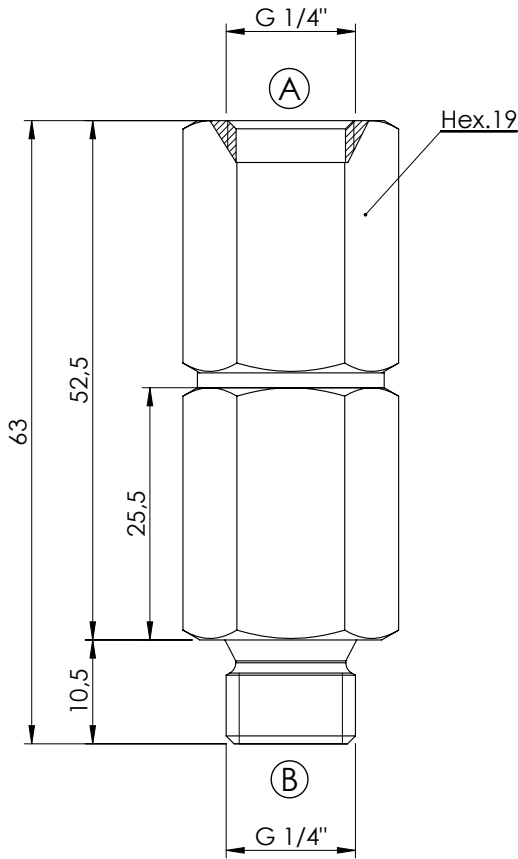
**ORDERING CODES**

Quick code	Description	Ø Orifice	Quick code	Description	Ø Orifice
CF000127	CFFN-070-MFSR-10-G12-N350	1,0	CF000080	CFFN-070-MFSR-33-G12-N350	3,3
CF000128	CFFN-070-MFSR-15-G12-N350	1,5			
CF000352	CFFN-070-MFSR-18-G12-N350	1,8			
CF000117	CFFN-070-MFSR-20-G12-N350	2,0			
CF000129	CFFN-070-MFSR-25-G12-N350	2,5			
CF000130	CFFN-070-MFSR-30-G12-N350	3,0			

FLOW RESTRICTOR

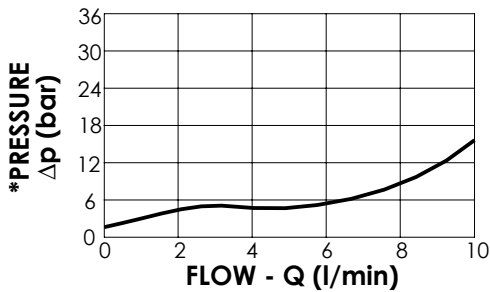
**CDFN-010-PSNC**

MONO DIRECTIONAL  
NOT COMPENSATED



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow (A to B):	10 l/min
Material:	Steel
Weight:	0,11 kg



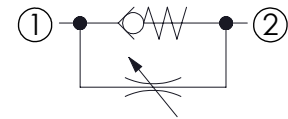
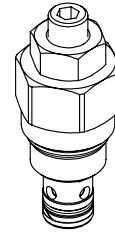
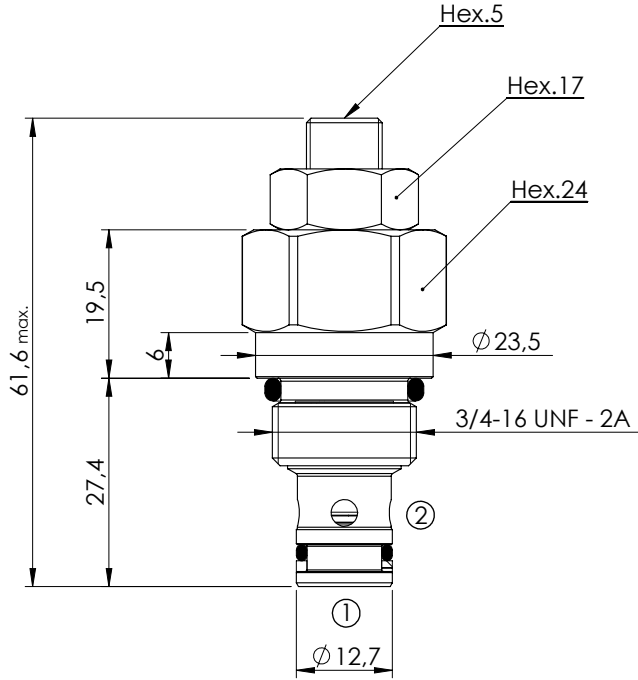
**ORDERING CODES**

Quick code	Description	Cracking pressure (bar)	Ports	Ø Hole (mm)
CD000084	CDFN-010-PSNC-05-G14-N350	5	A,B: G 1/4"	Ø 0,5
CD000085	CDFN-010-PSNC-06-G14-N350	5	A,B: G 1/4"	Ø 0,6
CD000086	CDFN-010-PSNC-07-G14-N350	5	A,B: G 1/4"	Ø 0,7
CD000087	CDFN-010-PSNC-08-G14-N350	5	A,B: G 1/4"	Ø 0,8
CD000089	CDFN-010-PSNC-10-G14-N350	5	A,B: G 1/4"	Ø 1
CD000091	CDFN-010-PSNC-13-G14-N350	5	A,B: G 1/4"	Ø 1,3
CD000167	CDFN-010-PSNC-03-G14-N350	5	A,B: G 1/4"	Ø 0,5 & wire Ø 0,4
CD000168	CDFN-010-PSNC-04-G14-N350	5	A,B: G 1/4"	Ø 0,6 & wire Ø 0,4

**FLOW RESTRICTOR**

**CFSN-040-MHRR**

**NEEDLE RESTRICTOR  
FREE REVERSE FLOW**



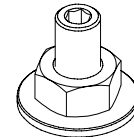
**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated Flow:	40 l/min
Material:	Steel
Cavity:	SAE-08-2N
Weight:	0,12 kg
Seal kit:	RA700081

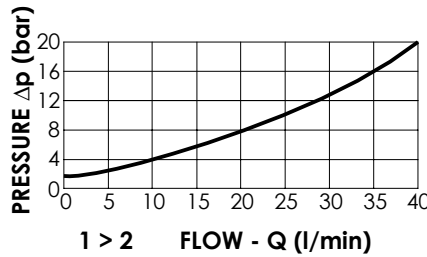
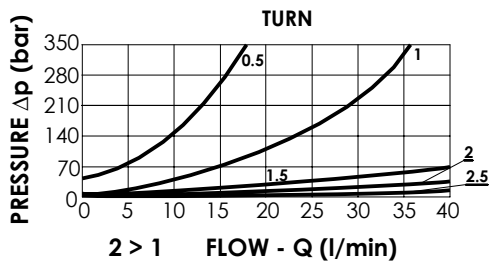
**NOTES**

Installation torque: 34-41 Nm

**ADJUSTMENT OPTIONS**



**Adjustment  
with Screw**

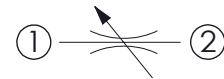
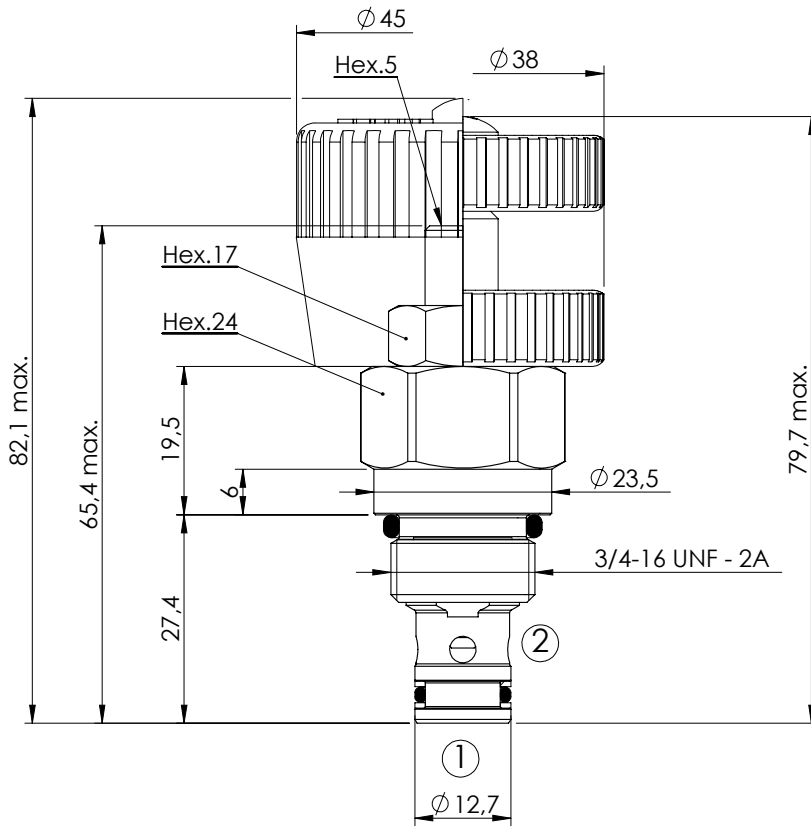
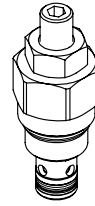


**ORDERING CODES**

Quick code	Description	Options	
CF000167	CFSN-040-MHRR-NP-S08-N350	Adjustment with Screw	

FLOW RESTRICTOR

**CFSN-040-BHRR**

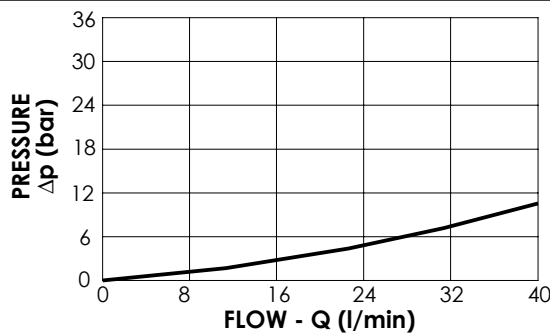


**SPECIFICATIONS**

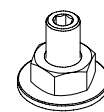
Max. operating pressure:	350 bar
Rated flow:	40 l/min
Material:	Steel
Cavity:	SAE-08-2N
Weight:	0,12 kg
Seal kit:	RB700081

**NOTES**

Installation torque: 45-50 Nm



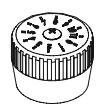
**ADJUSTMENT OPTIONS**



Screw and locknut



Handknob and locknut



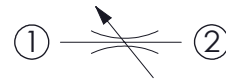
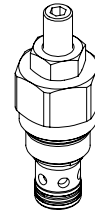
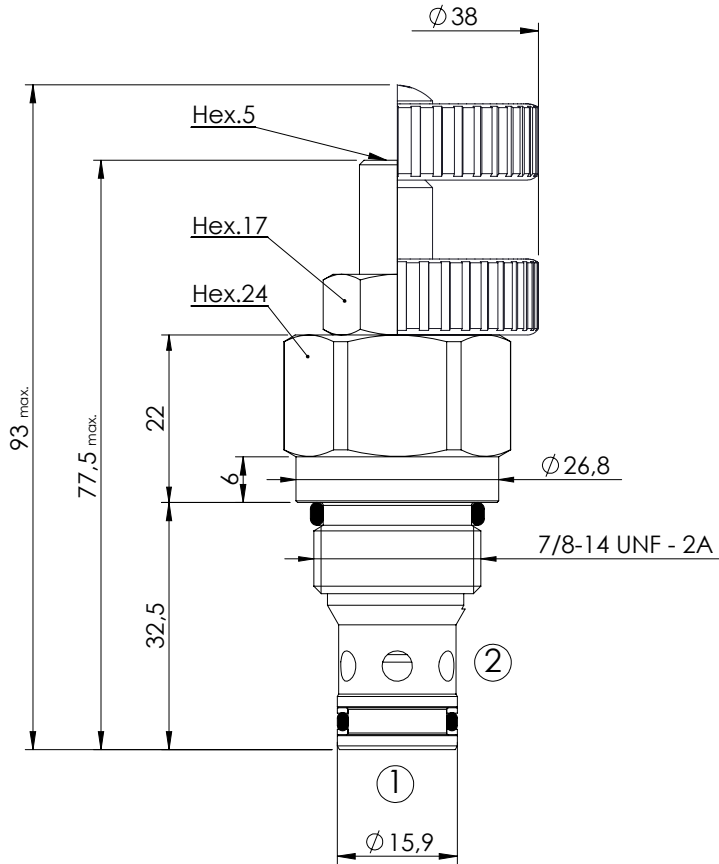
Graduated handknob

**ORDERING CODES**

Quick code	Description	Adjustment options
CF000112	CFSN-040-BHRR-NP-S08-N350	Screw and locknut
CF000109	CFSN-040-BVRR-NP-S08-N350	Handknob and locknut
CF000253	CFSN-040-BMRR-NP-S08-N350	Graduated handknob

**FLOW RESTRICTOR**

**CFSN-070-BHRR**

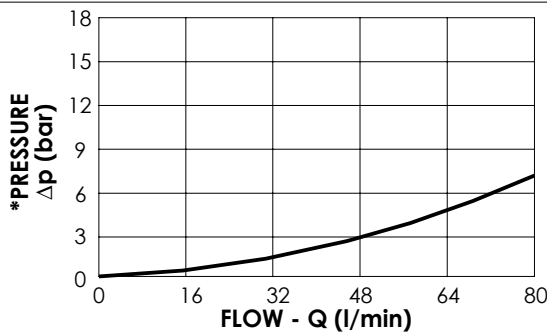


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	70 l/min
Material:	Steel
Cavity:	SAE-10-2N
Weight:	0,17 kg
Seal kit:	RB700082

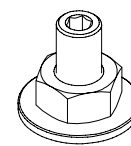
**NOTES**

Installation torque:	50-57 Nm
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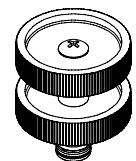


Fully open  
Both directions

**ADJUSTMENT OPTIONS**



Adjustments with Screw



Adjustments with Handknob

**ORDERING CODES**

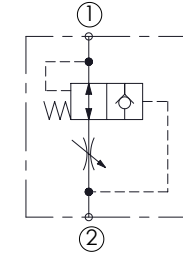
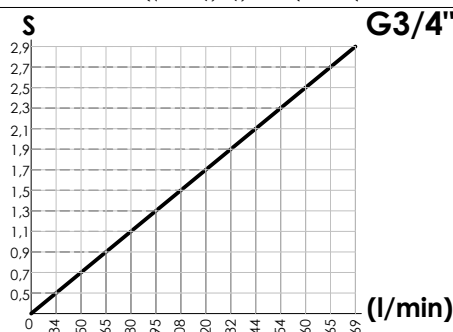
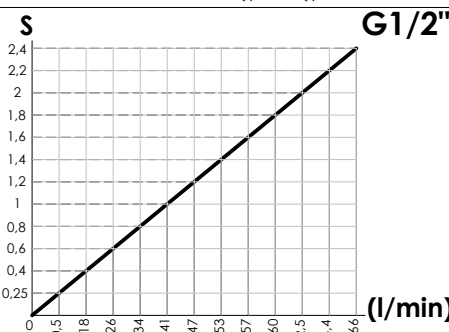
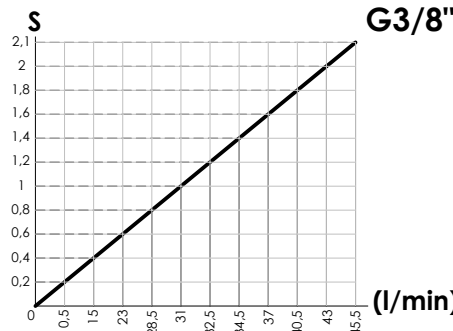
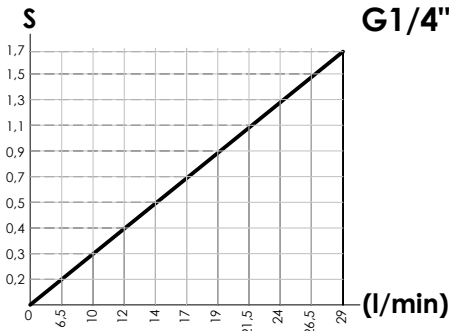
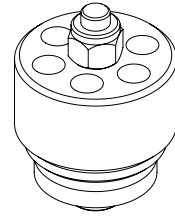
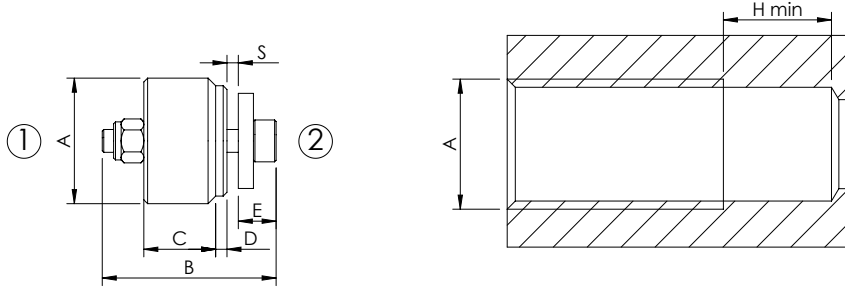
Quick code	Description	Options
CF000136	CFSN-070-BHRR-NP-S10-N350	Adjustments with Screw
CF000116	CFSN-070-BVRR-NP-S10-N350	Adjustments with Handknob



**HOSE BURST VALVE**

**CFHN-XXX-MHST**

INSERT TYPE



**SPECIFICATIONS**

Max. operating pressure: 350 bar

	Max flow (l/min)	Min flow (l/min)
G1/4"	29	6
G3/8"	45	10
G1/2"	67	10
G3/4"	169	30
G1"	223	110

For sleeve housing consult Accessories section

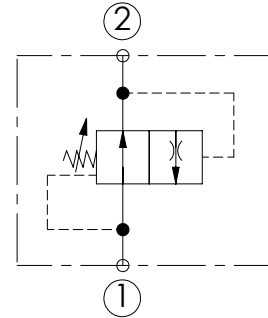
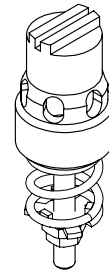
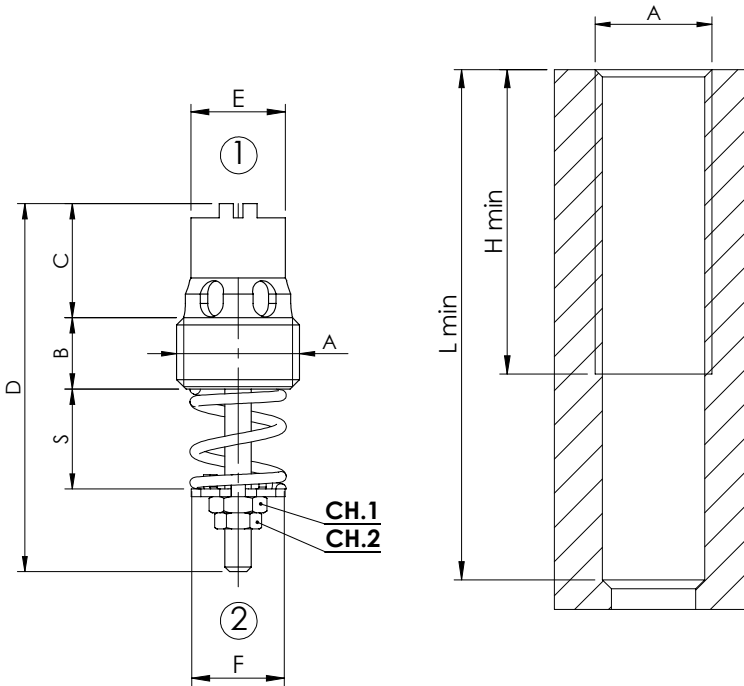
**ORDERING CODES**

Quick code	Description	A	B	C	D	E	H
CF000059	CFHN-030-MHST-00-235	G 1/4"	19	7	1	5	11
CF000055	CFHN-050-MHST-00-234	G 3/8"	23	9,5	1,5	5	11
CF000060	CFHN-070-MHST-00-233	G 1/2"	29	11,5	1,5	6	15
CF000053	CFHN-170-MHST-00-195	G 3/4"	34	15,5	2,5	6	16
CF000061	CFHN-230-MHST-00-232	G 1"	40	18,5	1,5	8,5	21

**FLOW REGULATOR**

**CFST-XXX-MDST**

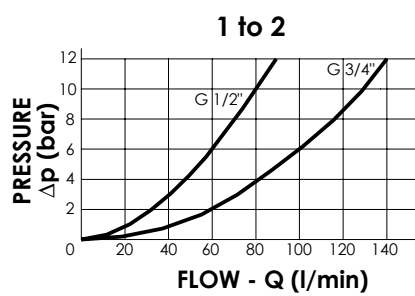
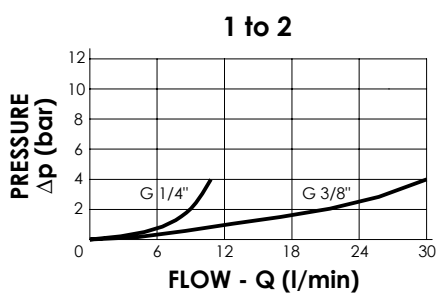
**2 WAYS COMPENSATED  
INSERT TYPE**



**SPECIFICATIONS**

Max. operating pressure: 300 bar

A	B	C	D	E	F	H min	L min	CH.1	CH.2	Installation torque:	Max. Flow ② → ①	Max. Flow ① → ②	
G 1/4"	7	12,5	39	10	10,5	33	55	5,5	4,5	6	G1/4"	10	15
G 3/8"	7	13,5	43	11,5	13,5	34	60	7	6	8	G3/8"	25	30
G 1/2"	8	16	49	15	18	40	70	7	6	12	G1/2"	67	90
G 3/4"	10	21	61	20	23	51	80	7	6	15	G3/4"	150	150



For sleeve housing consult Accessories section

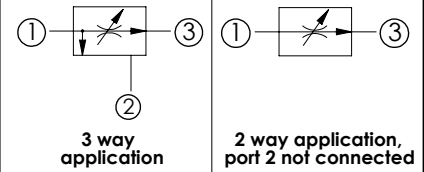
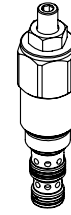
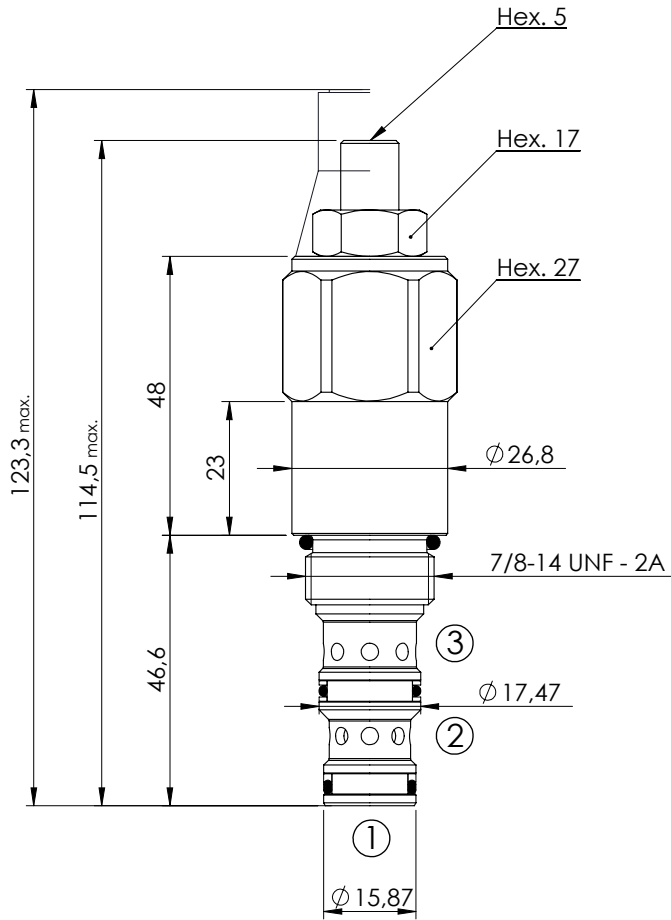
**ORDERING CODES**

G 1/4"		G 3/8"		G 1/2"		G 3/4"	
Quick code	Flow Range Adjustment (l/min)	Quick code	Flow Range Adjustment (l/min)	Quick code	Flow Range Adjustment (l/min)	Quick code	Flow Range Adjustment (l/min)
CF000104	1-1,6	CF000099	2,5-4	CF000093	16-21	CF000096	37-50
CF000105	1,6-2,5	CF000100	4-6,3	CF000094	21-28	CF000097	50-67
CF000106	2,5-4	CF000101	6,3-10	CF000095	28-37	CF000098	67-90
CF000107	4-6,3	CF000102	10-16	CF000081	37-50	CF000083	90-120
CF000108	6,3-10	CF000103	16-25	CF000082	50-67	CF000092	120-150

**FLOW REGULATOR**

**CFCT-060-MHRR**

**3 WAYS COMBINATION  
ADJUSTABLE SETTING**

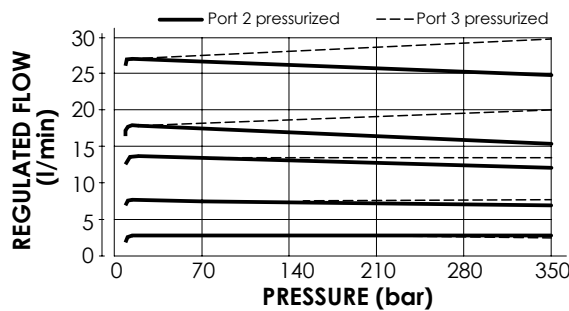
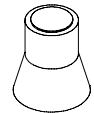


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	SAE-10-3N
Weight:	0,28 kg

**SEALING CAP**

Ordering code:  
**AT000021**



**NOTES**

- Installation torque: **50 - 57 Nm**
- Seal kit: **RA700092**
- If port 2 is blocked the valve operates as a two way flow regulator.
- Port 2 can be pressurized.

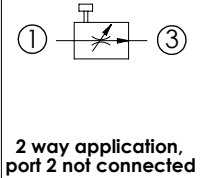
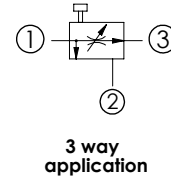
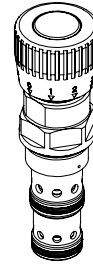
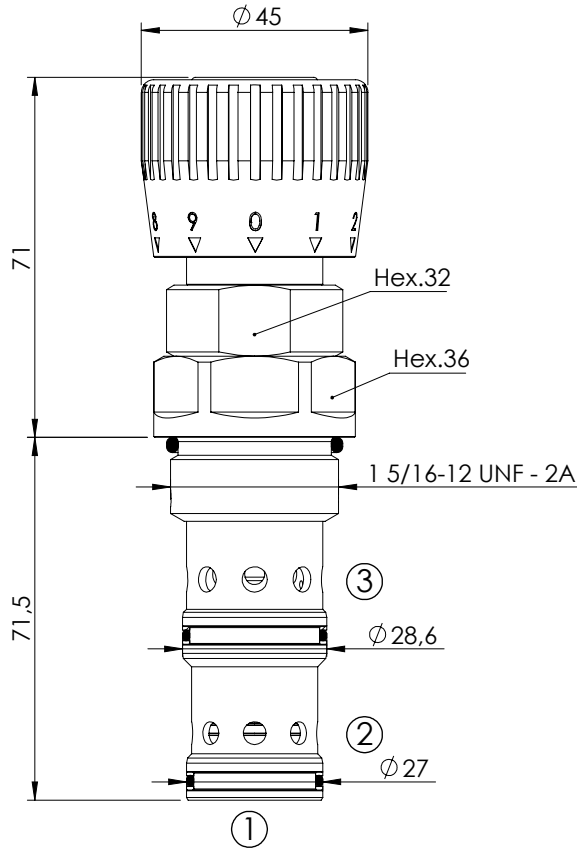
**ORDERING CODES**

Quick code	Description	Max. Inlet Flow (l/min)	Reg. Flow range (l/min)	Adjust. range (bar)	
CF000063	CFCT-060-MHRR-03-S10-N350	60	2,5-3,5	Screw nut locknut	
CF000149	CFCT-060-MHRR-04-S10-N350	60	3-4,5	Screw nut locknut	
CF000150	CFCT-060-MHRR-06-S10-N350	60	4,2-6,2	Screw nut locknut	
CF000006	CFCT-060-MHRR-09-S10-N350	60	5,8-9	Screw nut locknut	
CF000054	CFCT-060-MHRR-12-S10-N350	60	8,5-12	Screw nut locknut	
CF000062	CFCT-060-MHRR-16-S10-N350	60	11,5-16,5	Screw nut locknut	
CF000151	CFCT-060-MHRR-23-S10-N350	60	15,5-22,5	Screw nut locknut	
CF000152	CFCT-060-MHRR-30-S10-N350	60	20-29,5	Screw nut locknut	
CF000057	CFCT-060-MHRR-32-S10-N350	60	26,5-38,5	Screw nut locknut	

**FLOW REGULATOR**

**CFPT-140-MVRR**

**3 WAYS COMBINATION  
ADJUSTABLE SETTING**

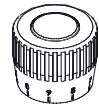


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Division or combination:	140 l/min
Cavity:	SAE-16-3N
Weight:	0,7 kg
Seal kit:	RB700094

**ADJUSTMENT TYPE**

Graduated handknob for flow regulation under pressure



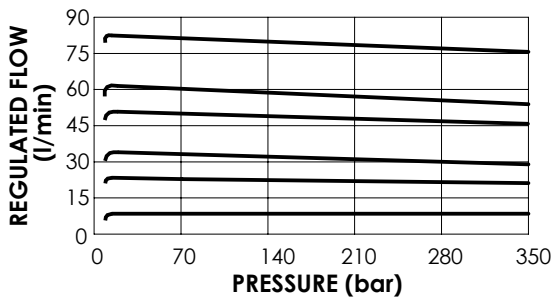
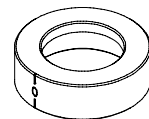
**NOTES**

Installation torque: 118 - 132 Nm

If port 2 is blocked the valve operates as a two way flow regulator. Port 2 can be pressurized.

The washer is used to indicate the zero.

Ordering code:  
SV000083



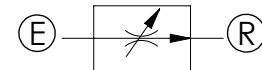
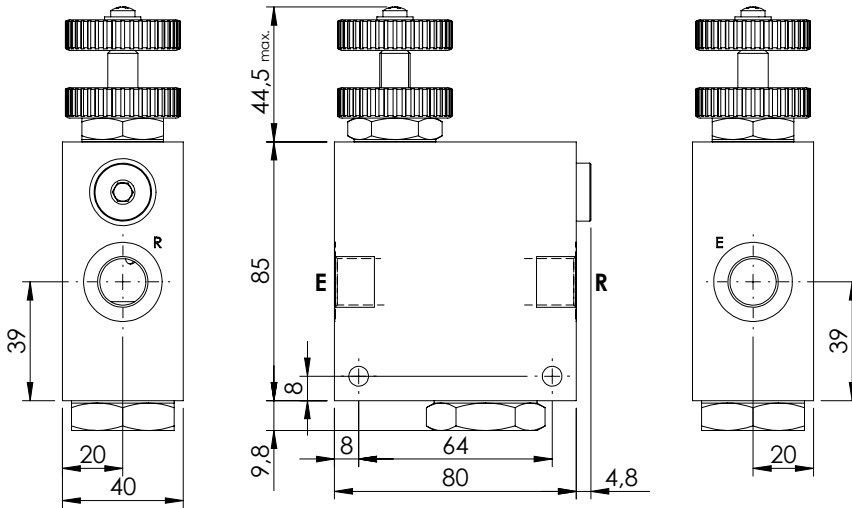
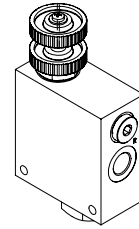
**ORDERING CODES**

Quick code	Description	Regulated flow range (l/min)	Adjustment option
CF000310	CFPT-140-MVRR-15-S16-N350	0 - 15	Graduated handknob
CF000311	CFPT-140-MVRR-25-S16-N350	0 - 25	Graduated handknob
CF000312	CFPT-140-MVRR-35-S16-N350	0 - 35	Graduated handknob
CF000313	CFPT-140-MVRR-50-S16-N350	0 - 50	Graduated handknob
CF000314	CFPT-140-MVRR-65-S16-N350	0 - 65	Graduated handknob
CF000315	CFPT-140-MVRR-80-S16-N350	0 - 80	Graduated handknob

**FLOW REGULATOR**

**MFST-030-RVTR**

**2 WAYS COMPENSATED**

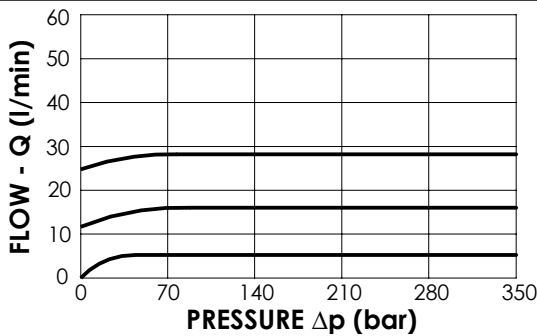


**SPECIFICATIONS**

Max. operating pressure:	See table
Rated flow:	30 l/min
Manifold:	Aluminium/Steel
Weight:	0,95/1,39 kg

**ADJUSTMENT OPTIONS**

Handknob and locknut	Screw and locknut	Graduated handknob



**NOTES**

Regulation: FINE

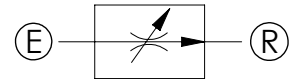
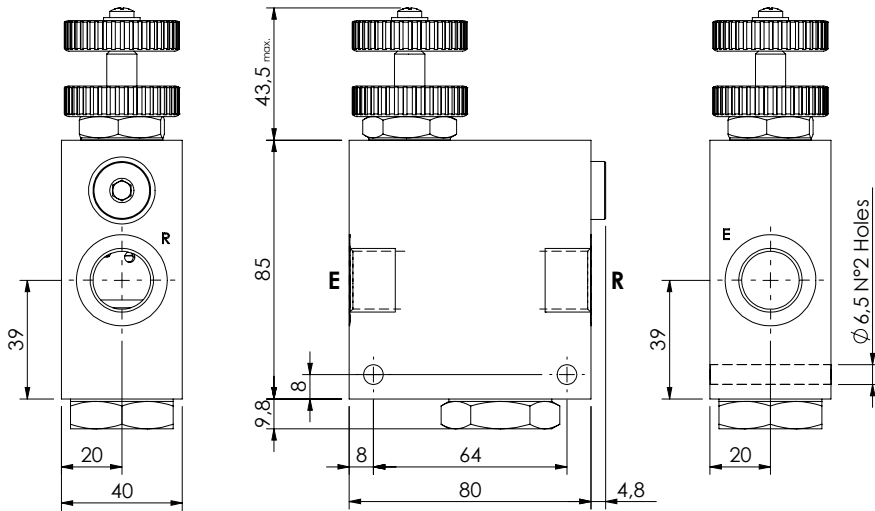
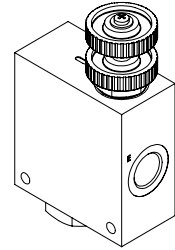
**ORDERING CODES**

Quick code	Description	Main ports size	Manifold	Max. Pressure (Bar)	Max. inlet flow (l/min)	Adjustment options
MF000241	MFST-030-RVTR-30-G38-N210	E,R: G 3/8"	Aluminium	210	30	Handknob and locknut
MF000242	MFST-030-RHTR-30-G38-N210	E,R: G 3/8"	Aluminium	210	30	Screw and locknut
MF000243	MFST-030-RMTR-30-G38-N210	E,R: G 3/8"	Aluminium	210	30	Graduated handknob
MF000244	MFST-030-RVSR-30-G38-N350	E,R: G 3/8"	Steel	350	30	Handknob and locknut
MF000245	MFST-030-RHSR-30-G38-N350	E,R: G 3/8"	Steel	350	30	Screw and locknut
MF000246	MFST-030-RMSR-30-G38-N350	E,R: G 3/8"	Steel	350	30	Graduated handknob

**FLOW REGULATOR**

**MFST-055-TVTR**

**2 WAYS COMPENSATED**



**SPECIFICATIONS**

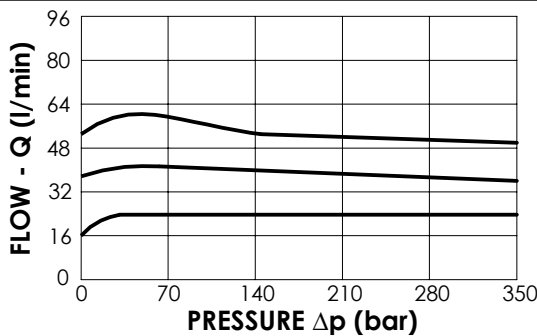
Max. operating pressure:	See table
Rated flow:	55 l/min
Manifold:	Aluminium/Steel
Weight:	0,94/2,01 kg

**ADJUSTMENT OPTIONS**



**NOTES**

Regulation: FINE



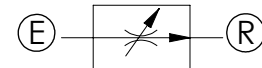
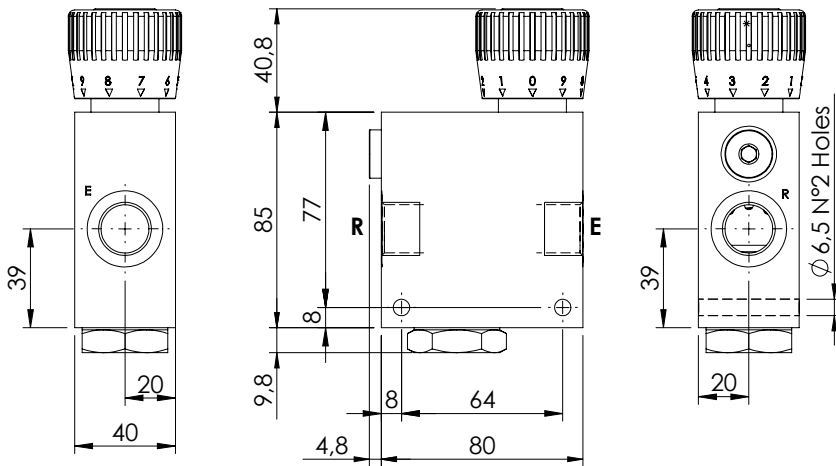
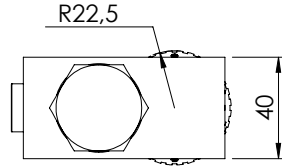
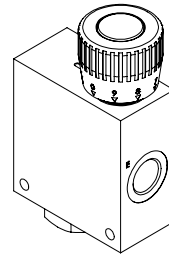
**ORDERING CODES**

Quick code	Description	Main ports size	Manifold	Max. Pressure (Bar)	Max. inlet flow (l/min)	Adjustment options
MF000052	MFST-055-RVTR-55-G12-N210	E,R: G 1/2"	Aluminium	210	55	Handknob and locknut
MF000238	MFST-055-RHTR-55-G12-N210	E,R: G 1/2"	Aluminium	210	55	Screw and locknut
MF000106	MFST-055-RMTR-55-G12-N210	E,R: G 1/2"	Aluminium	210	55	Graduated handknob
MF000148	MFST-055-RVSR-55-G12-N350	E,R: G 1/2"	Steel	350	55	Handknob and locknut
MF000239	MFST-055-RHSR-55-G12-N350	E,R: G 1/2"	Steel	350	55	Screw and locknut
MF000240	MFST-055-RMSR-55-G12-N350	E,R: G 1/2"	Steel	350	55	Graduated handknob

**FLOW REGULATOR**

**MFST-090-RPZR**

**2 WAYS COMPENSATED**

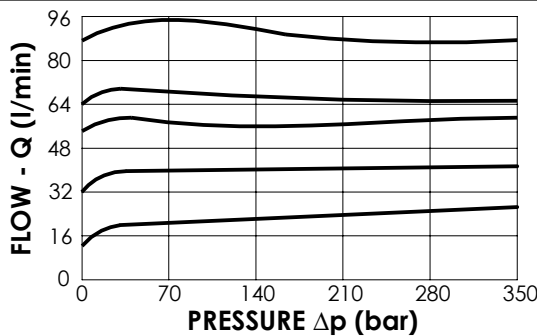
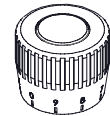


**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	90 l/min
Manifold:	Aluminium
Weight:	0,93 kg

**ADJUSTMENT TYPE**

Graduated handknob for flow regulation under pressure



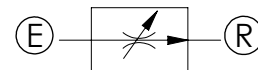
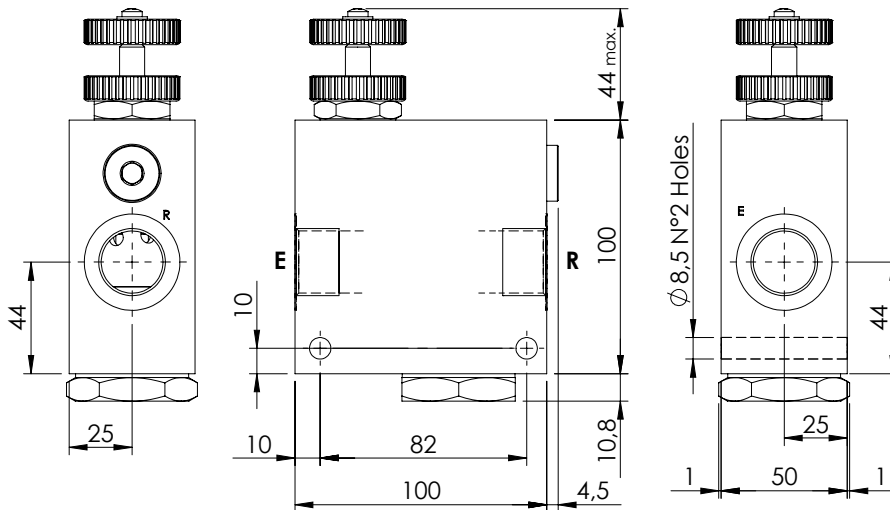
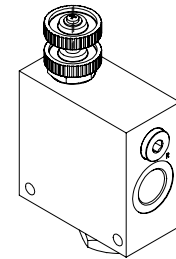
**ORDERING CODES**

Quick code	Description	Main ports size	Regulated flow range (l/min)	Adjustment type
MF000186	MFST-090-RPZR-06-G12-N210	G 1/2"	0 - 6	Graduated handknob
MF000187	MFST-090-RPZR-12-G12-N210	G 1/2"	0 - 12	Graduated handknob
MF000188	MFST-090-RPZR-25-G12-N210	G 1/2"	0 - 25	Graduated handknob
MF000189	MFST-090-RPZR-32-G12-N210	G 1/2"	0 - 32	Graduated handknob
MF000190	MFST-090-RPZR-50-G12-N210	G 1/2"	0 - 50	Graduated handknob
MF000191	MFST-090-RPZR-63-G12-N210	G 1/2"	0 - 63	Graduated handknob

**FLOW REGULATOR**

**MFST-090-RVTR**

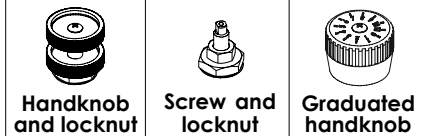
**2 WAYS COMPENSATED**



**SPECIFICATIONS**

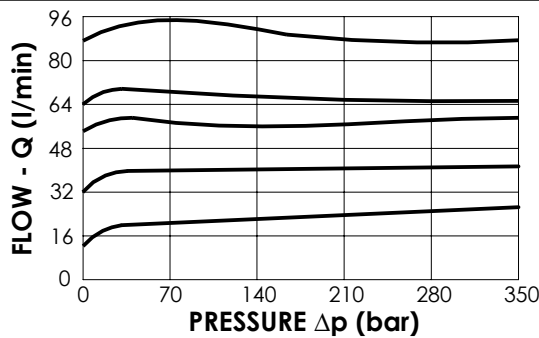
Max. operating pressure:	See table
Rated flow:	90 l/min
Manifold:	Aluminium/Steel
Weight:	1,66/ 3,6 kg

**ADJUSTMENT OPTIONS**



**NOTES**

Regulation: STANDARD



**ORDERING CODES**

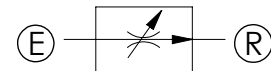
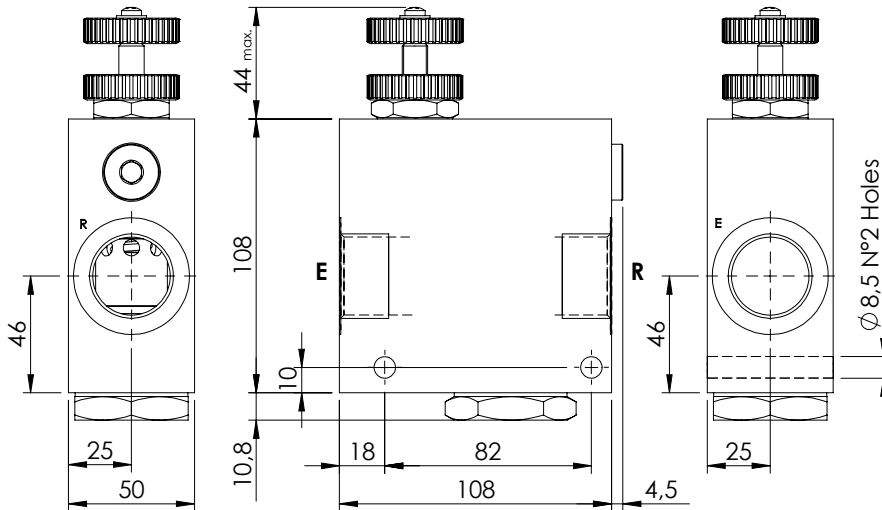
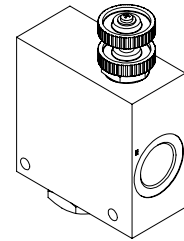
Quick code	Description	Main ports size	Manifold	Max. pressure (Bar)	Max. inlet flow (l/min)	Adjustment options
MF000042	MFST-090-RVTR-90-G34-N210	E,R: G 3/4"	Aluminium	210	90	Handknob and locknut
MF000234	MFST-090-RHTR-90-G34-N210	E,R: G 3/4"	Aluminium	210	90	Screw and locknut
MF000235	MFST-090-RMTR-90-G34-N210	E,R: G 3/4"	Aluminium	210	90	Graduated handknob
MF000139	MFST-090-RVSR-90-G34-N350	E,R: G 3/4"	Steel	350	90	Handknob and locknut
MF000236	MFST-090-RHSR-90-G34-N350	E,R: G 3/4"	Steel	350	90	Screw and locknut
MF000237	MFST-090-RMSR-90-G34-N350	E,R: G 3/4"	Steel	350	90	Graduated handknob



**FLOW REGULATOR**

**MFST-190-RVTR**

**2 WAYS COMPENSATED**

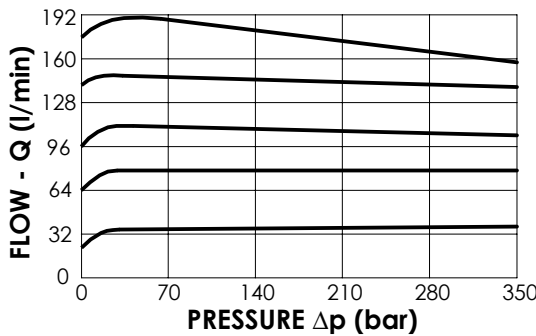


**SPECIFICATIONS**

Max. operating pressure:	210/350 bar
Rated flow:	190 l/min
Manifold:	Aluminium/Steel
Weight:	1,8/4,0 kg

**ADJUSTMENT OPTIONS**

Handknob and locknut	Screw and locknut	Graduated handknob



**NOTES**

Regulation: STANDARD

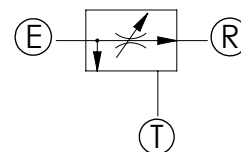
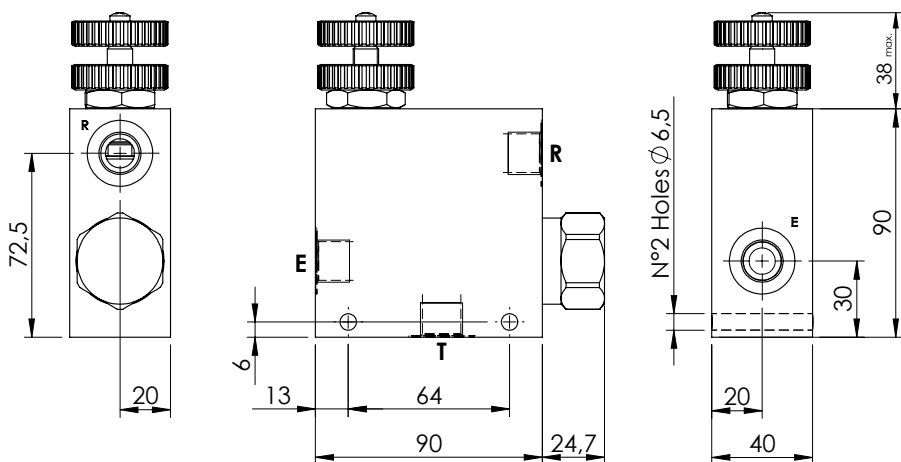
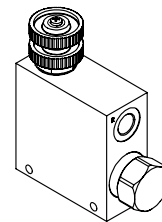
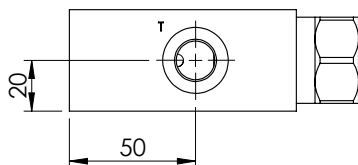
**ORDERING CODES**

Quick code	Description	Main ports size	Manifold	Max. Pressure (Bar)	Max. inlet flow (l/min)	Adjustment options
MF000253	MFST-190-RVTR-19-G10-N210	E,R: G 1"	Aluminium	210	190	Handknob and locknut
MF000254	MFST-190-RHTR-19-G10-N210	E,R: G 1"	Aluminium	210	190	Screw and locknut
MF000255	MFST-190-RMTR-19-G10-N210	E,R: G 1"	Aluminium	210	190	Graduated handknob
MF000256	MFST-190-RVSR-19-G10-N350	E,R: G 1"	Steel	350	190	Handknob and locknut
MF000257	MFST-190-RHSR-19-G10-N350	E,R: G 1"	Steel	350	190	Screw and locknut
MF000258	MFST-190-RMSR-19-G10-N350	E,R: G 1"	Steel	350	190	Graduated handknob

**FLOW REGULATOR**

**MFCT-055-RVTR**

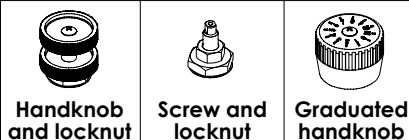
**3 WAYS COMPENSATED**



**SPECIFICATIONS**

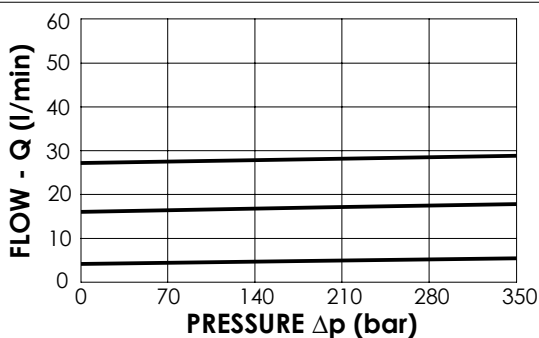
Max. operating pressure:	see table
Rated flow:	55 l/min
Manifold:	Aluminium/Steel
Weight:	1,12/2,48 kg

**ADJUSTMENT OPTIONS**



**NOTES**

Regulation sensitivity: FINE



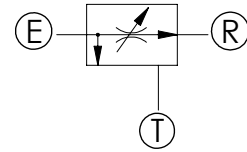
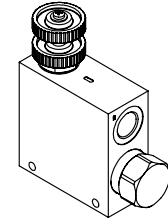
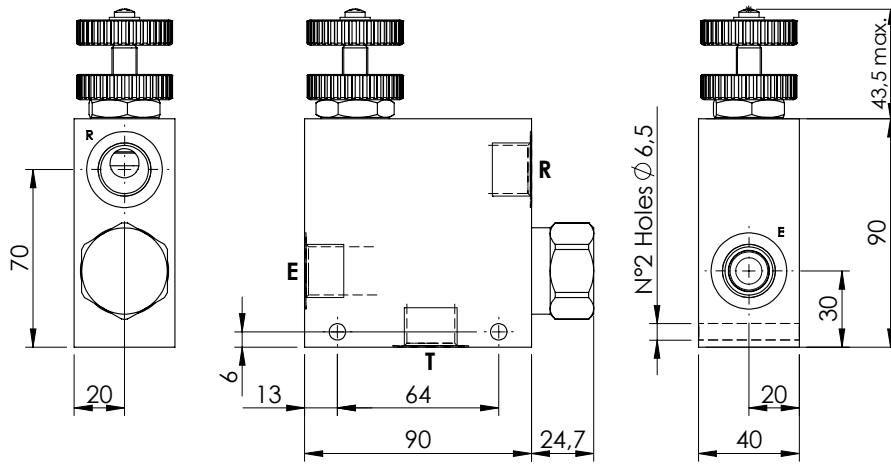
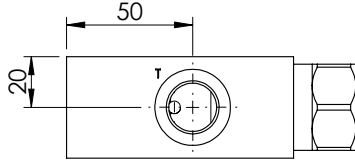
**ORDERING CODES**

Quick code	Description	Main ports size	Manifold	Max. Pressure (Bar)	Max. reg.flow (l/min)	Max. inlet flow (l/min)	Adjustment options
MF000008	MFCT-055-RVTR-30-G38-N210	G 3/8"	Aluminium	210	30	55	Handknob and locknut
MF000009	MFCT-055-RHTR-30-G38-N210	G 3/8"	Aluminium	210	30	55	Screw and locknut
MF000010	MFCT-055-RMTR-30-G38-N210	G 3/8"	Aluminium	210	30	55	Graduated handknob
MF000089	MFCT-055-RVSR-30-G38-N350	G 3/8"	Steel	350	30	55	Handknob and locknut
MF000090	MFCT-055-RHSR-30-G38-N350	G 3/8"	Steel	350	30	55	Screw and locknut
MF000091	MFCT-055-RMSR-30-G38-N350	G 3/8"	Steel	350	30	55	Graduated handknob

**FLOW REGULATOR**

**MFCT-090-RVTR**

**3 WAYS COMPENSATED**



**SPECIFICATIONS**

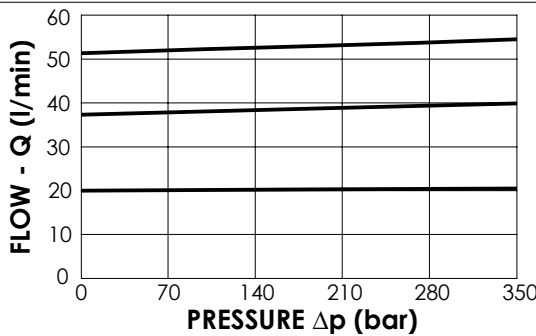
Max. operating pressure:	see table
Rated flow:	90 l/min
Manifold:	Aluminium/Steel
Weight:	1,11/2,45 kg

**ADJUSTMENT OPTIONS**



**NOTES**

Regulation: FINE



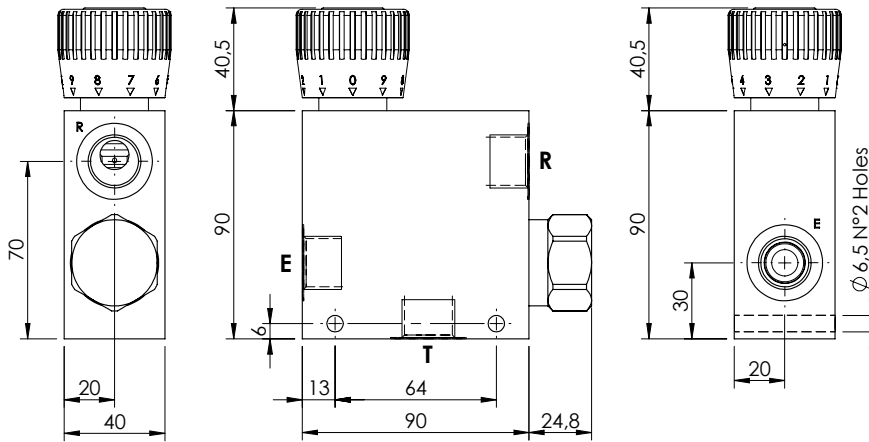
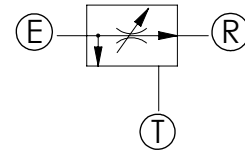
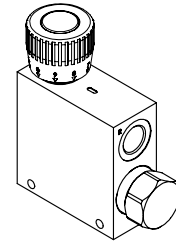
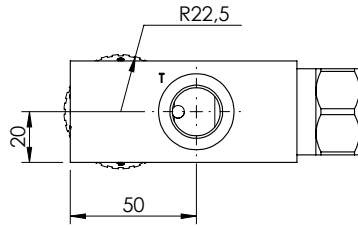
**ORDERING CODES**

Quick code	Description	Main ports size	Manifold	Max. Pressure (Bar)	Max. reg.flow (l/min)	Max. inlet flow (l/min)	Adjustment options
MF000015	MFCT-090-RVTR-55-G12-N210	G 1/2"	Aluminium	210	55	90	Handknob and locknut
MF000016	MFCT-090-RHTR-55-G12-N210	G 1/2"	Aluminium	210	55	90	Screw and locknut
MF000014	MFCT-090-RMTR-55-G12-N210	G 1/2"	Aluminium	210	55	90	Graduated handknob
MF000095	MFCT-090-RVSR-55-G12-N350	G 1/2"	Steel	350	55	90	Handknob and locknut
MF000096	MFCT-090-RHSR-55-G12-N350	G 1/2"	Steel	350	55	90	Screw and locknut
MF000097	MFCT-090-RMSR-55-G12-N350	G 1/2"	Steel	350	55	90	Graduated handknob

**FLOW REGULATOR**

**MFCT-090-RPZR**

**3 WAYS COMPENSATED**

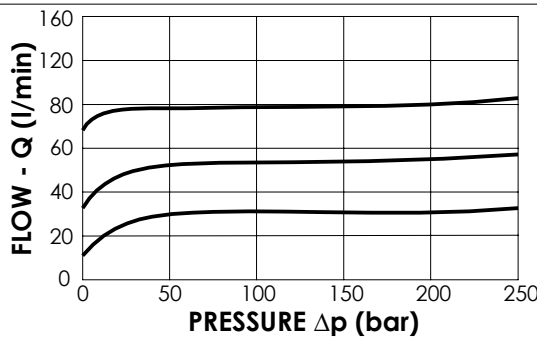
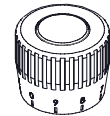


**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	90 l/min
Manifold:	Aluminium
Weight:	0,93 kg

**ADJUSTMENT TYPE**

Graduated handknob for flow regulation under pressure



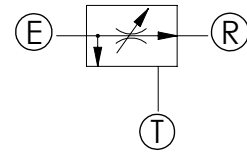
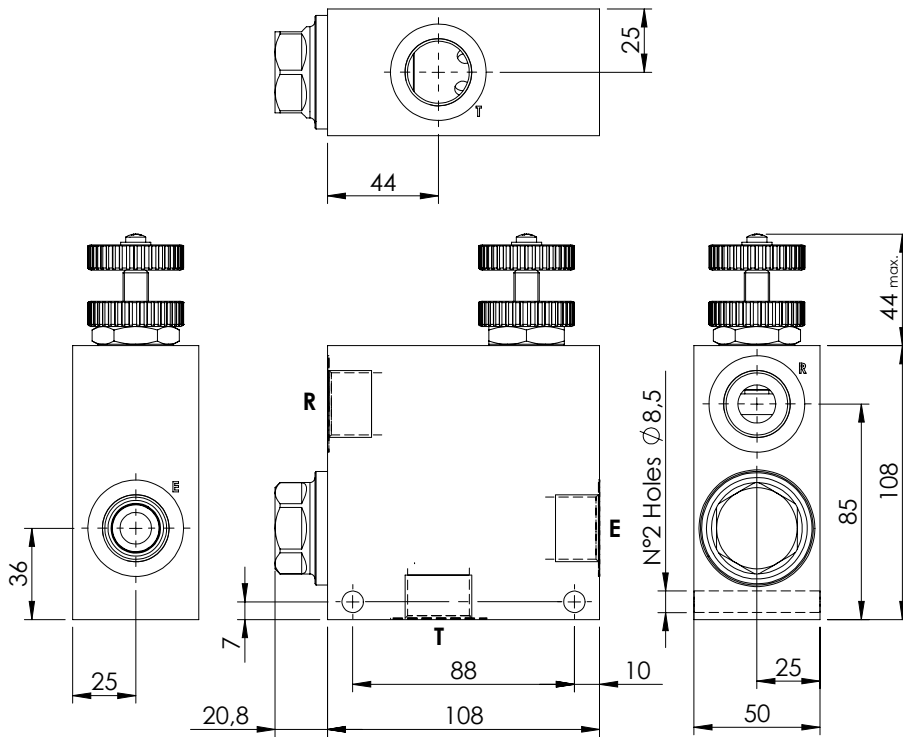
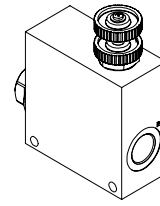
**ORDERING CODES**

Quick code	Description	Main ports size	Regulated flow range (l/min)	Adjustment type
MF000194	MFCT-090-RPZR-06-G12-N210	G 1/2"	0 - 6	Graduated handknob
MF000195	MFCT-090-RPZR-12-G12-N210	G 1/2"	0 - 12	Graduated handknob
MF000196	MFCT-090-RPZR-25-G12-N210	G 1/2"	0 - 25	Graduated handknob
MF000197	MFCT-090-RPZR-32-G12-N210	G 1/2"	0 - 32	Graduated handknob
MF000198	MFCT-090-RPZR-50-G12-N210	G 1/2"	0 - 50	Graduated handknob
MF000199	MFCT-090-RPZR-63-G12-N210	G 1/2"	0 - 63	Graduated handknob
MF000200	MFCT-090-RPZR-70-G12-N210	G 1/2"	0 - 70	Graduated handknob
MF000201	MFCT-090-RPZR-80-G12-N210	G 1/2"	0 - 80	Graduated handknob

**FLOW REGULATOR**

**MFCT-150-RVTR**

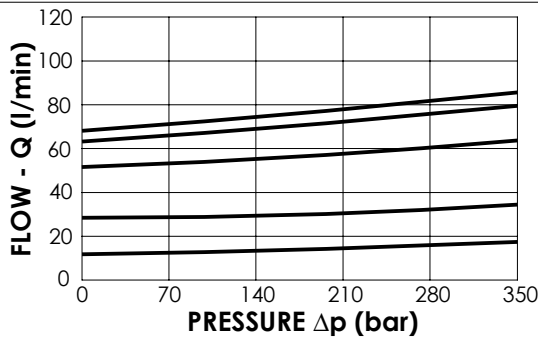
**3 WAYS COMPENSATED**



**SPECIFICATIONS**

Max. operating pressure:	see table
Rated flow:	150 l/min
Manifold:	Aluminium/Steel
Weight:	1,79/4,23 kg

**ADJUSTMENT OPTIONS**



**NOTES**

Regulation: STANDARD

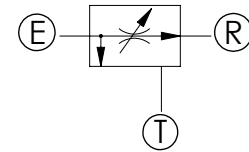
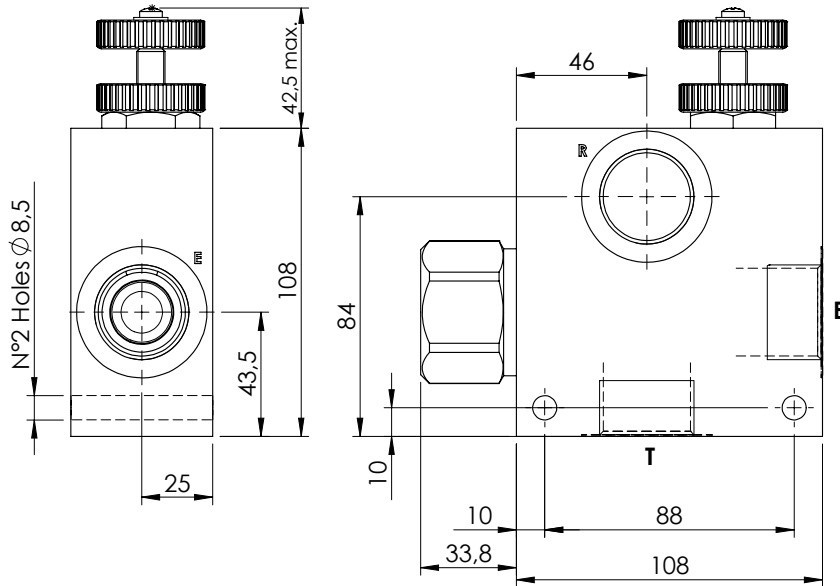
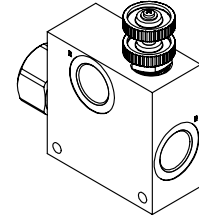
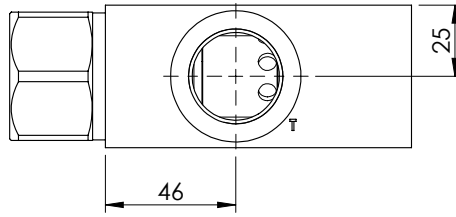
**ORDERING CODES**

Quick code	Description	Main ports size	Manifold	Max. Pressure (Bar)	Max. reg.flow (l/min)	Max. inlet flow (l/min)	Adjustment options
MF000031	MFCT-150-RVTR-90-G34-N210	G 3/4"	Aluminium	210	90	150	Handknob and locknut
MF000032	MFCT-150-RHTR-90-G34-N210	G 3/4"	Aluminium	210	90	150	Screw and locknut
MF000033	MFCT-150-RMTR-90-G34-N210	G 3/4"	Aluminium	210	90	150	Graduated handknob
MF000023	MFCT-150-RVSR-90-G34-N350	G 3/4"	Steel	350	90	150	Handknob and locknut
MF000024	MFCT-150-RHSR-90-G34-N350	G 3/4"	Steel	350	90	150	Screw and locknut
MF000025	MFCT-150-RMSR-90-G34-N350	G 3/4"	Steel	350	90	150	Graduated handknob

**FLOW REGULATOR**

**MFCT-280-RVTR**

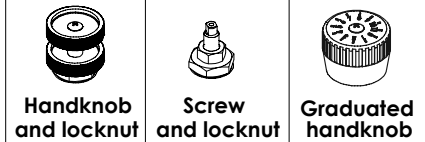
**3 WAYS COMPENSATED**



**SPECIFICATIONS**

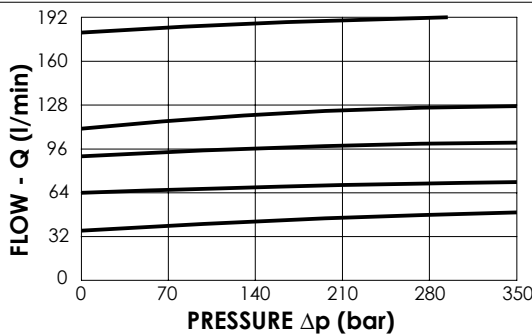
Max. operating pressure:	see table
Rated flow:	280 l/min
Manifold:	Aluminium/Steel
Weight:	1,97/4,08 kg

**ADJUSTMENT OPTIONS**



**NOTES**

Regulating: STANDARD



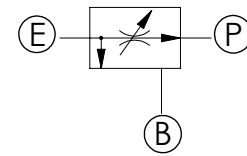
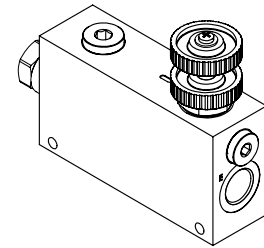
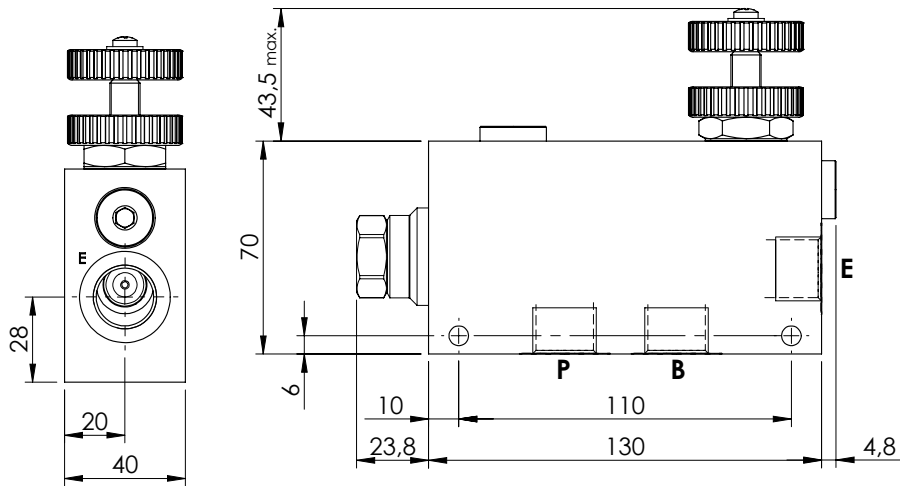
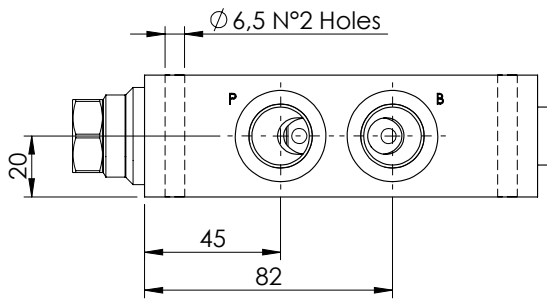
**ORDERING CODES**

Quick code	Description	Main ports size	Manifold	Max. Pressure (Bar)	Max. reg.flow (l/min)	Max. inlet flow (l/min)	Adjustment options
MF000035	MFCT-280-RVTR-19-G10-N210	G 1"	Aluminium	210	190	280	Handknob and locknut
MF000036	MFCT-280-RHTR-19-G10-N210	G 1"	Aluminium	210	190	280	Screw and locknut
MF000037	MFCT-280-RMTR-19-G10-N210	G 1"	Aluminium	210	190	280	Graduated handknob
MF000026	MFCT-280-RVSR-19-G10-N350	G 1"	Steel	350	190	280	Handknob and locknut
MF000027	MFCT-280-RHSR-19-G10-N350	G 1"	Steel	350	190	280	Screw and locknut
MF000028	MFCT-280-RMSR-19-G10-N350	G 1"	Steel	350	190	280	Graduated handknob

**FLOW REGULATOR**

**MFPT-090-RVTR**

**PRESSURE COMPENSATED  
PRIORITY FLOW REGULATOR**



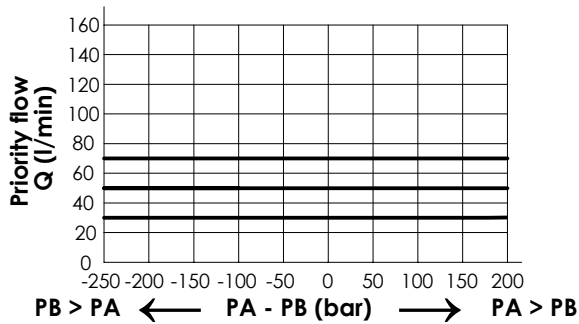
**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	90 l/min
Manifold:	Aluminium
Weight:	1,2 kg

**ADJUSTMENT OPTIONS**



Handknob and locknut



**NOTES**

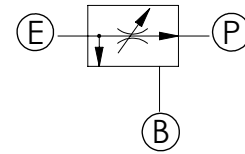
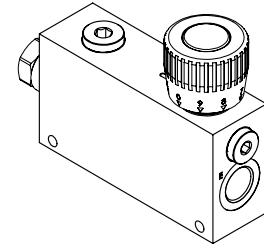
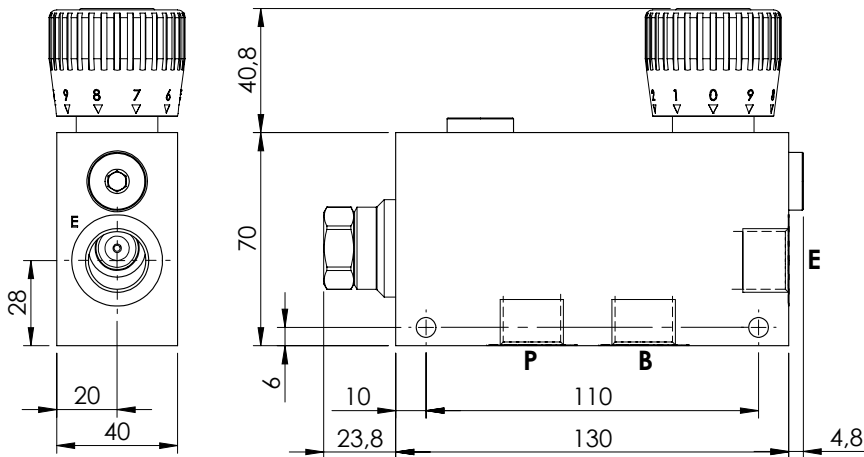
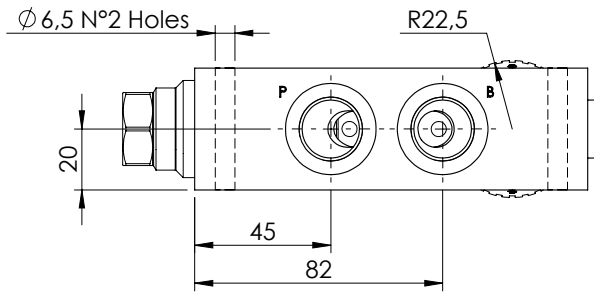
**ORDERING CODES**

Quick code	Description	Main ports size	Max. inlet flow (l/min)	Max. regulated flow (l/min)	Adjustment options
MF000121	MFPT-090-RVTR-70-G12-N210	E,P,T: G1/2"	90 l/min	70 l/min	Handknob and locknut
MF000136	MFPT-090-RVTR-70-G38-N210	E,P,T: G3/8"	90 l/min	70 l/min	Handknob and locknut

**FLOW REGULATOR**

**MFPT-090-RPZR**

**PRESSURE COMPENSATED  
PRIORITY FLOW REGULATOR**

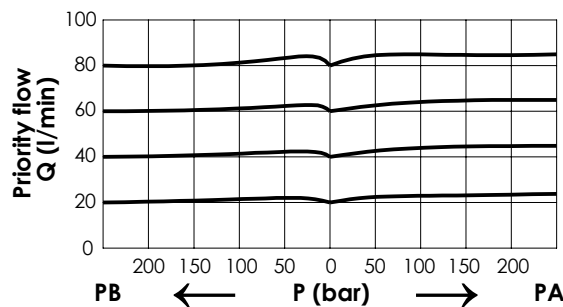
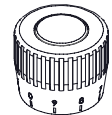


**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	90 l/min
Manifold:	Aluminium
Weight:	1,3 kg

**ADJUSTMENT TYPE**

Graduated handknob for flow regulation under pressure



**ORDERING CODES**

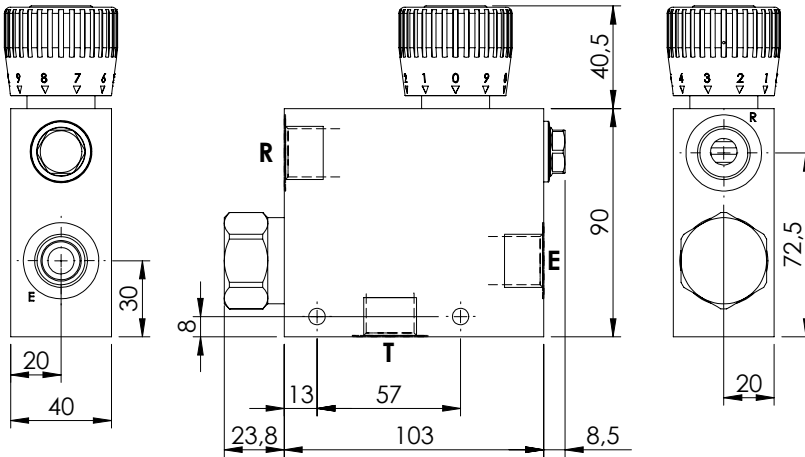
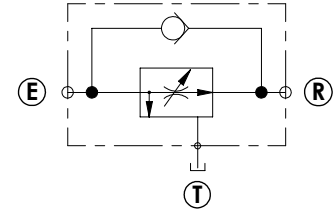
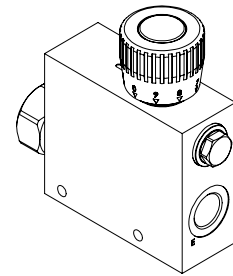
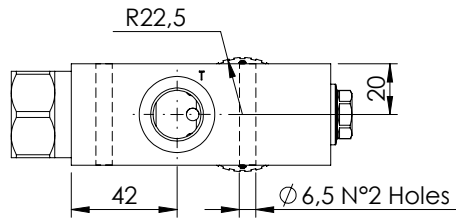
Quick code	Description	Main ports size	Regulated flow range (l/min)	Adjustment type
MF000211	MFPT-090-RPZR-12-G12-N210	G 1/2"	0 - 12	Graduated handknob
MF000212	MFPT-090-RPZR-25-G12-N210	G 1/2"	0 - 25	Graduated handknob
MF000213	MFPT-090-RPZR-32-G12-N210	G 1/2"	0 - 32	Graduated handknob
MF000214	MFPT-090-RPZR-50-G12-N210	G 1/2"	0 - 50	Graduated handknob
MF000215	MFPT-090-RPZR-63-G12-N210	G 1/2"	0 - 63	Graduated handknob
MF000216	MFPT-090-RPZR-70-G12-N210	G 1/2"	0 - 70	Graduated handknob
MF000217	MFPT-090-RPZR-80-G12-N210	G 1/2"	0 - 80	Graduated handknob



**FLOW REGULATOR**

**MFCT-090-VPZR**

**3 WAYS COMPENSATED  
WITH CHECK VALVE**

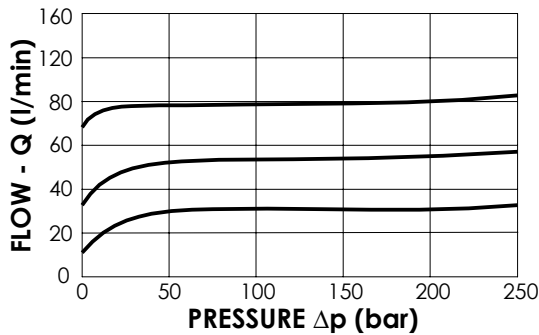
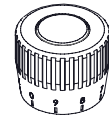


**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	90 l/min
Manifold:	Aluminium
Weight:	1,4 kg

**ADJUSTMENT TYPE**

Graduated handknob for flow regulation under pressure



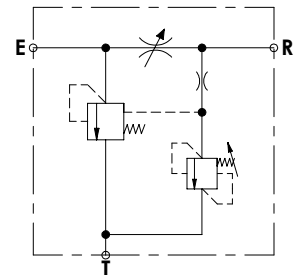
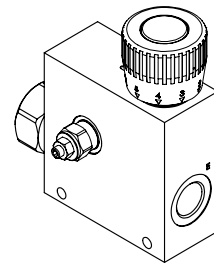
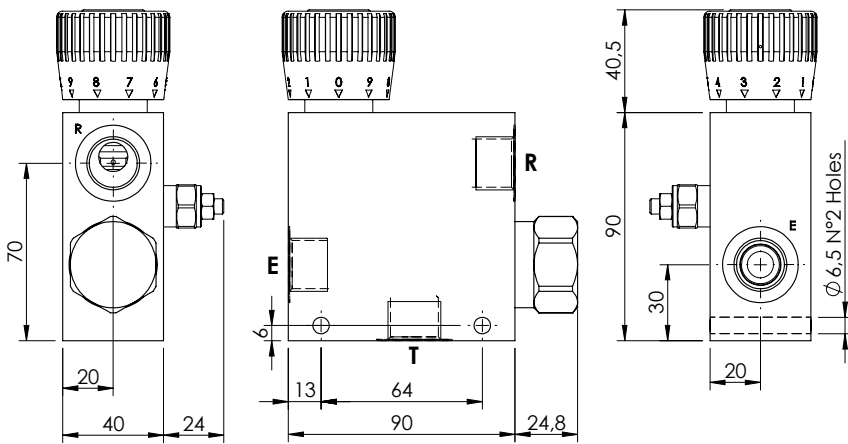
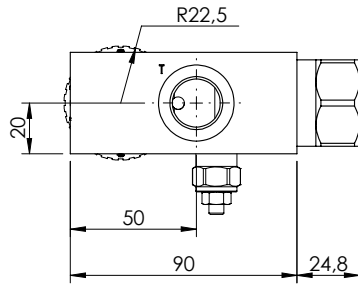
**ORDERING CODES**

Quick code	Description	Main ports size	Regulated flow range (l/min)	Adjustment type
MF000202	MFCT-090-VPZR-06-G12-N210	G 1/2"	0 - 6	Graduated handknob
MF000203	MFCT-090-VPZR-12-G12-N210	G 1/2"	0 - 12	Graduated handknob
MF000204	MFCT-090-VPZR-25-G12-N210	G 1/2"	0 - 25	Graduated handknob
MF000205	MFCT-090-VPZR-32-G12-N210	G 1/2"	0 - 32	Graduated handknob
MF000206	MFCT-090-VPZR-50-G12-N210	G 1/2"	0 - 50	Graduated handknob
MF000207	MFCT-090-VPZR-63-G12-N210	G 1/2"	0 - 63	Graduated handknob
MF000208	MFCT-090-VPZR-70-G12-N210	G 1/2"	0 - 70	Graduated handknob
MF000209	MFCT-090-VPZR-80-G12-N210	G 1/2"	0 - 80	Graduated handknob

**FLOW REGULATOR**

**MFCT-090-LPZR**

**3 WAYS COMPENSATED  
WITH RELIEF VALVE**

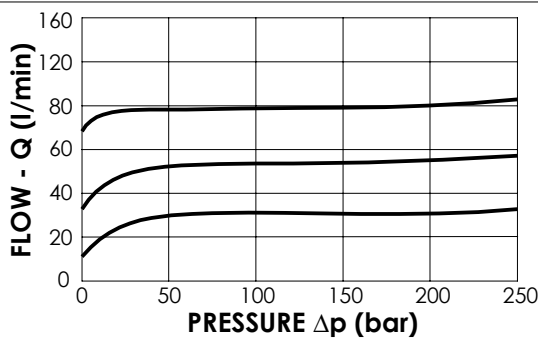
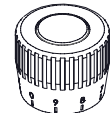


**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	90 l/min
Manifold:	Aluminium
Weight:	0,93 kg

**ADJUSTMENT TYPE**

Graduated handknob for flow regulation under pressure



**RELIEF VALVE**

Setting range:	35 - 210 bar
Standard setting:	210 bar

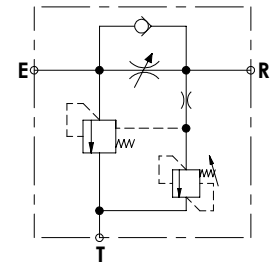
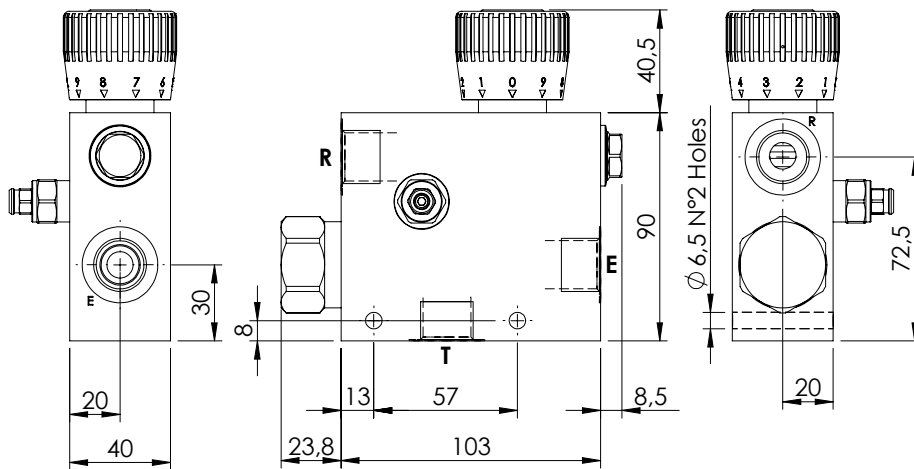
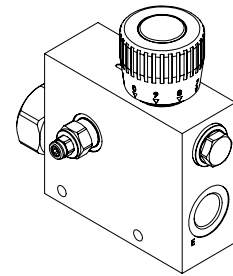
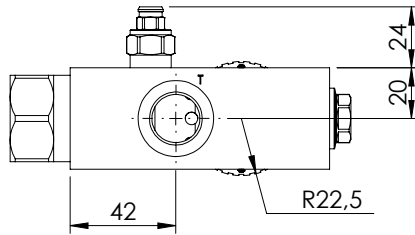
**ORDERING CODES**

Quick code	Description	Main ports size	Regulated flow range (l/min)	Adjustment type
MF000218	MFCT-090-LPZR-06-G12-N210	G 1/2"	0 - 6	Graduated handknob
MF000219	MFCT-090-LPZR-12-G12-N210	G 1/2"	0 - 12	Graduated handknob
MF000220	MFCT-090-LPZR-25-G12-N210	G 1/2"	0 - 25	Graduated handknob
MF000221	MFCT-090-LPZR-32-G12-N210	G 1/2"	0 - 32	Graduated handknob
MF000222	MFCT-090-LPZR-50-G12-N210	G 1/2"	0 - 50	Graduated handknob
MF000223	MFCT-090-LPZR-63-G12-N210	G 1/2"	0 - 63	Graduated handknob
MF000224	MFCT-090-LPZR-70-G12-N210	G 1/2"	0 - 70	Graduated handknob
MF000225	MFCT-090-LPZR-80-G12-N210	G 1/2"	0 - 80	Graduated handknob

**FLOW REGULATOR**

**MFCT-090-TPZR**

**3 WAYS COMPENSATED  
BY PASS CHECK VALVE  
RELIEF VALVE**

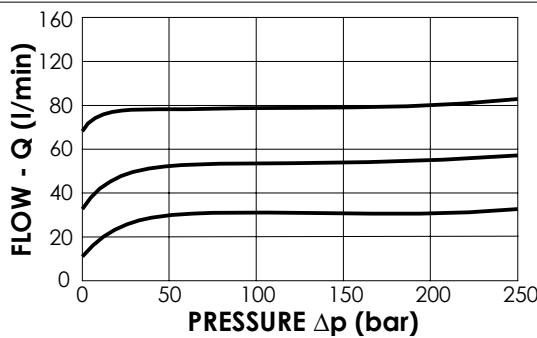
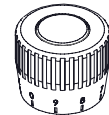


**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	90 l/min
Manifold:	Aluminium
Weight:	1,44 kg

**ADJUSTMENT TYPE**

Graduated handknob for flow regulation under pressure



**NOTES**

Setting range: 35 - 210 bar  
Standard setting: 210 bar

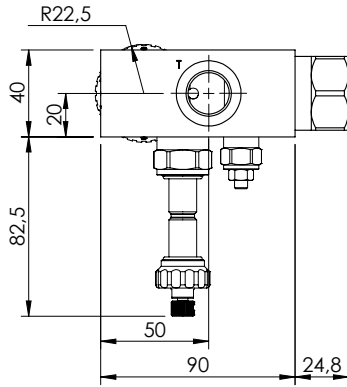
**ORDERING CODES**

Quick code	Description	Main ports size	Regulated flow range (l/min)	Adjustment type
MF000226	MFCT-090-TPZR-06-G12-N210	G 1/2"	0 - 6	Graduated handknob
MF000227	MFCT-090-TPZR-12-G12-N210	G 1/2"	0 - 12	Graduated handknob
MF000228	MFCT-090-TPZR-25-G12-N210	G 1/2"	0 - 25	Graduated handknob
MF000229	MFCT-090-TPZR-32-G12-N210	G 1/2"	0 - 32	Graduated handknob
MF000230	MFCT-090-TPZR-50-G12-N210	G 1/2"	0 - 50	Graduated handknob
MF000231	MFCT-090-TPZR-63-G12-N210	G 1/2"	0 - 63	Graduated handknob
MF000232	MFCT-090-TPZR-70-G12-N210	G 1/2"	0 - 70	Graduated handknob
MF000233	MFCT-090-TPZR-80-G12-N210	G 1/2"	0 - 80	Graduated handknob

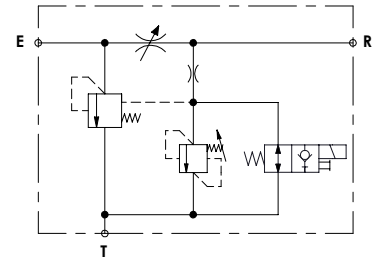
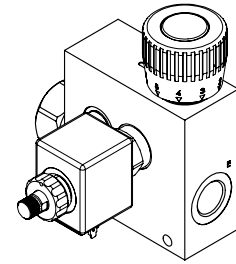
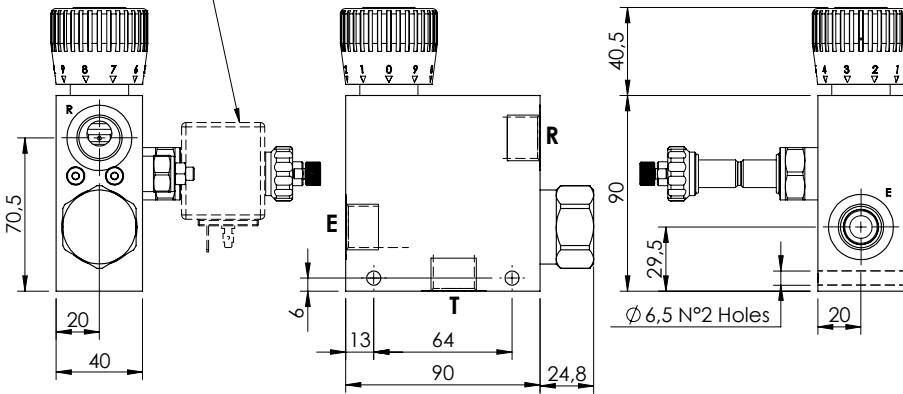
**FLOW REGULATOR**

**MFCT-090-MPTR**

**3 WAYS COMPENSATED  
WITH RELIEF VALVE AND  
ELECTRIC UNLOADING**



M7 coil type to be ordered separately

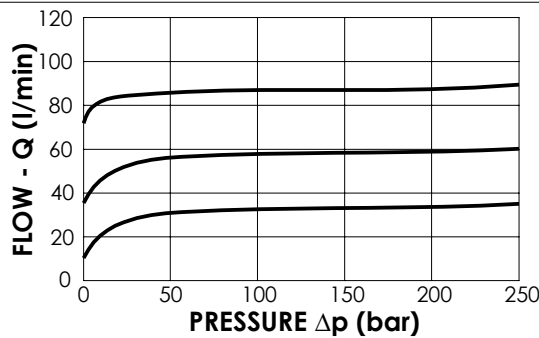
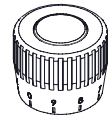


**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	90 l/min
Manifold:	Aluminium
Weight:	0,93 kg

**ADJUSTMENT TYPE**

Graduated handknob for flow regulation under pressure



**RELIEF VALVE**

Setting range:	35 - 210 bar
Standard setting:	210 bar

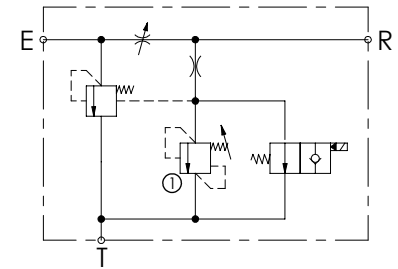
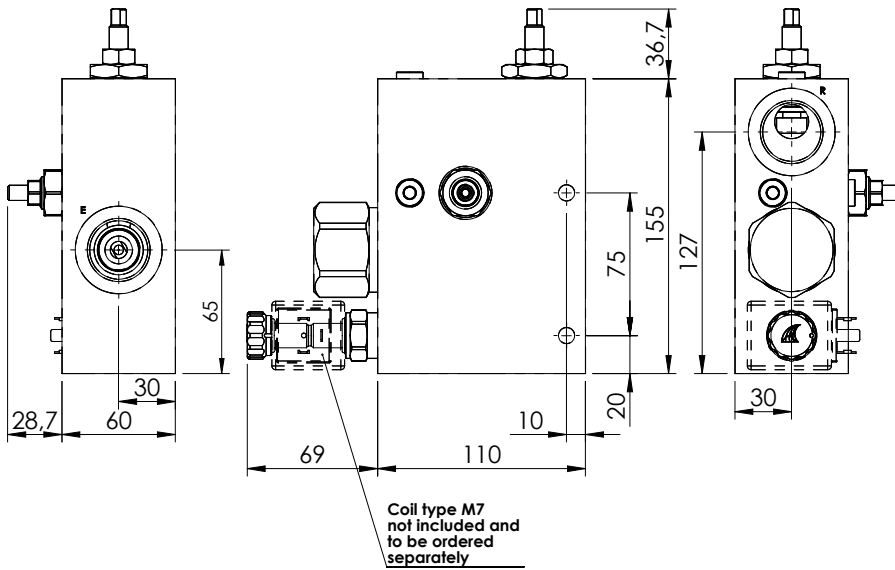
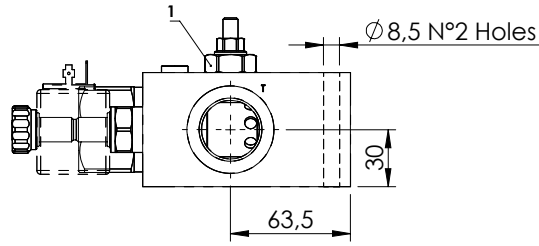
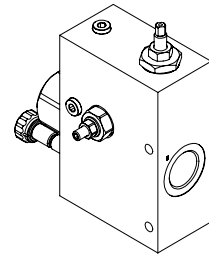
**ORDERING CODES**

Quick code	Description	Main ports size	Regulated flow range (l/min)	Adjustment type
MF000298	MFCT-090-MPTR-06-G12-N210	G 1/2"	0 - 6	Graduated handknob
MF000299	MFCT-090-MPTR-12-G12-N210	G 1/2"	0 - 12	Graduated handknob
MF000300	MFCT-090-MPTR-25-G12-N210	G 1/2"	0 - 25	Graduated handknob
MF000301	MFCT-090-MPTR-32-G12-N210	G 1/2"	0 - 32	Graduated handknob
MF000302	MFCT-090-MPTR-50-G12-N210	G 1/2"	0 - 50	Graduated handknob
MF000303	MFCT-090-MPTR-63-G12-N210	G 1/2"	0 - 63	Graduated handknob
MF000304	MFCT-090-MPTR-70-G12-N210	G 1/2"	0 - 70	Graduated handknob
MF000305	MFCT-090-MPTR-80-G12-N210	G 1/2"	0 - 80	Graduated handknob

**FLOW REGULATOR**

**MFCT-280-MVTR**

**3 WAYS COMPENSATED  
WITH RELIEF VALVE AND  
ELECTRIC UNLOADING**



**SPECIFICATIONS**

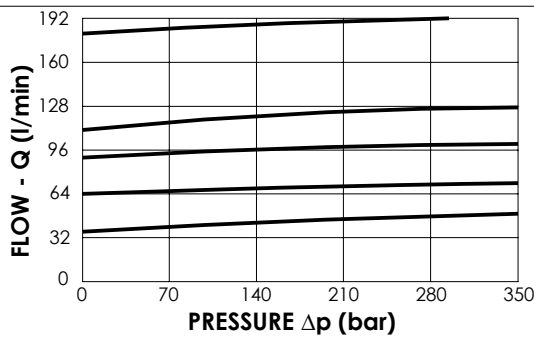
Max. operating pressure:	250 bar
Rated flow:	280 l/min
Regulated flow:	190 l/min
Manifold:	Aluminium
Weight:	3,24 kg
Coil:	M7

**ADJUSTMENT OPTIONS**



**NOTES**

-For options see pag. 22.00.000.



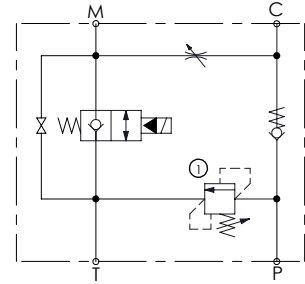
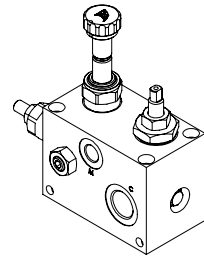
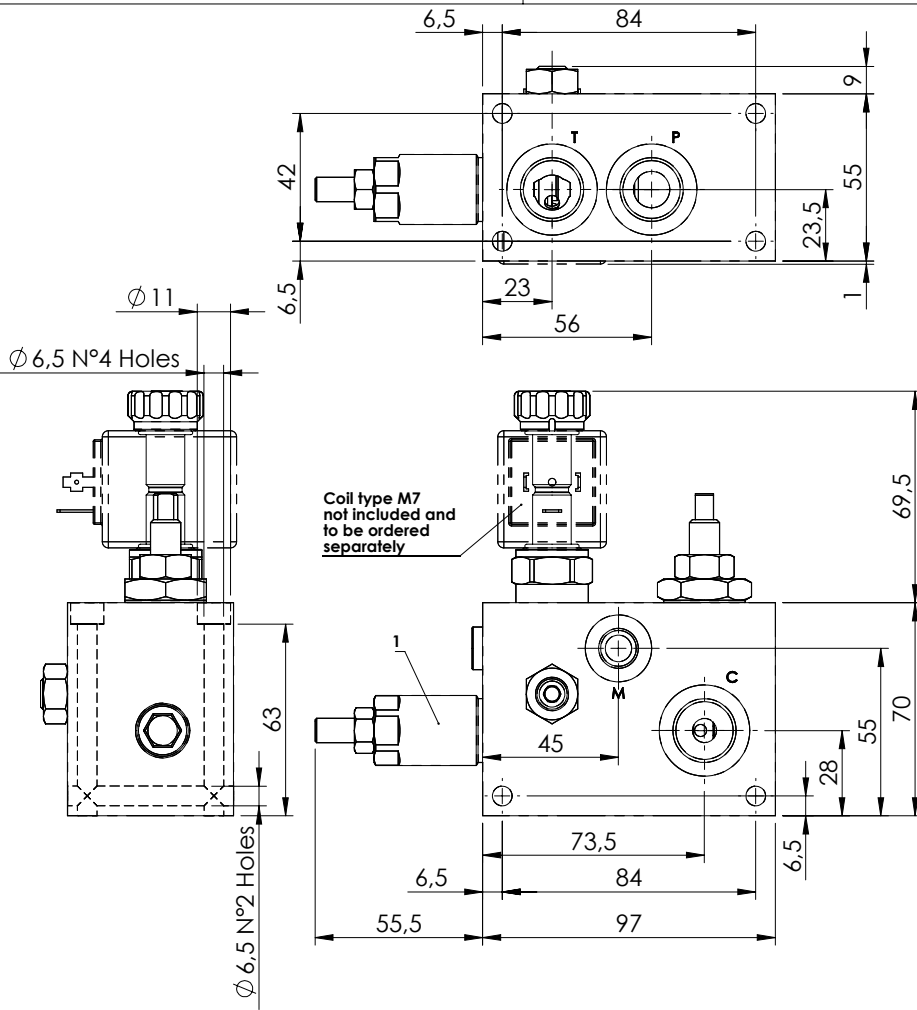
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=l/min)	Adjustment range (bar)	Pressure increase (bar)
MF000143	MFCT-280-MVTR-19-G10-N250	R,E,T: G 1"	240	140-350	142

**FLOW REGULATOR**

**BPNN-025-LLEU**

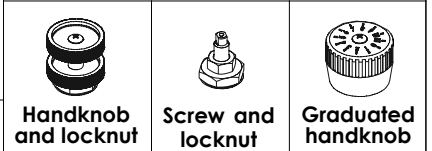
SOLENOID OPERATED VALVES  
STANDARD INTEGRATED CIRCUITS



**SPECIFICATIONS**

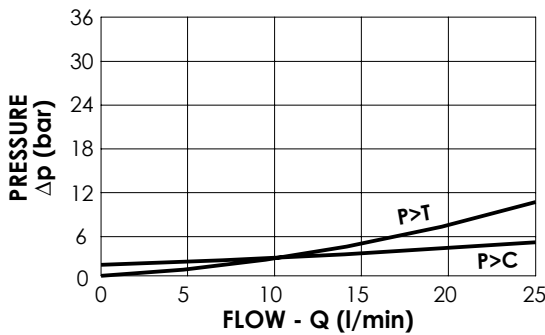
Max. operating pressure:	350 bar
Rated flow:	25 l/min
Manifold:	Aluminium
Weight:	1,3 kg
Coil:	M7

**ADJUSTMENT OPTIONS**



**NOTES**

-For options see pag. 22.00.000.



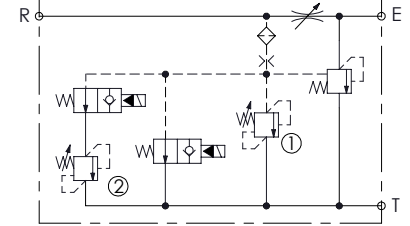
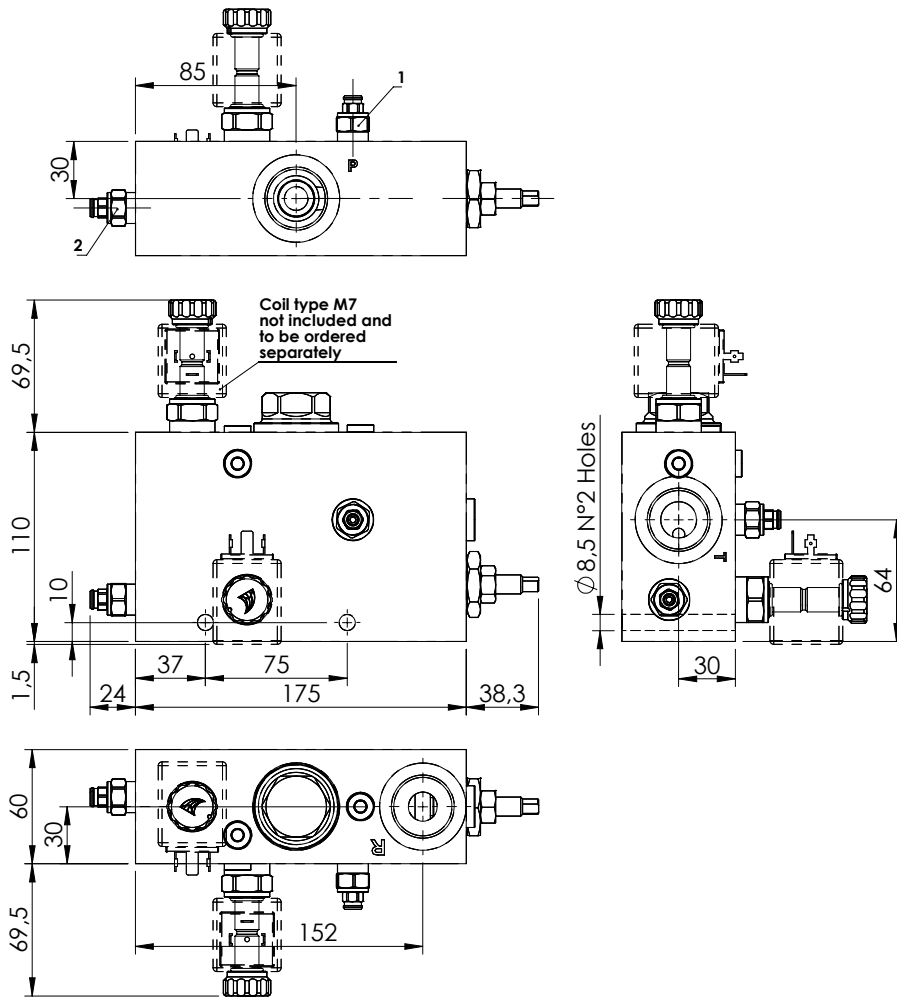
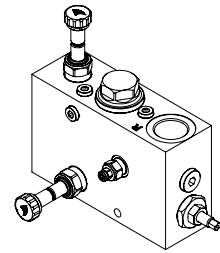
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar)	Adjust. options
BP000081	BPNN-025-LLEU-G12-N200	P,T,C:G1/2" M:G1/4"	200	50-210	42	Screw and locknut

**FLOW REGULATOR**

**MFCT-150-LHTR**

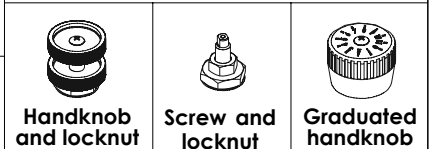
**3 WAYS COMPENSATED WITH RELIEF VALVE**



**SPECIFICATIONS**

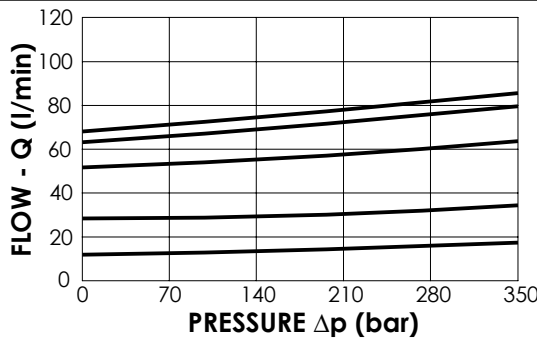
Max. operating pressure:	210 bar
Rated flow:	150 l/min
Regulated Flow:	90 l/min
Manifold:	Aluminium
Weight:	3,5 kg
Coil:	M7

**ADJUSTMENT OPTIONS**



**NOTES**

-For options see pag. 22.00.000.



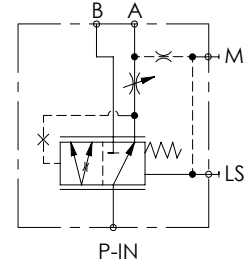
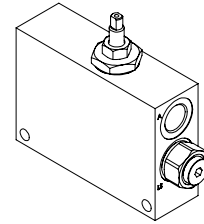
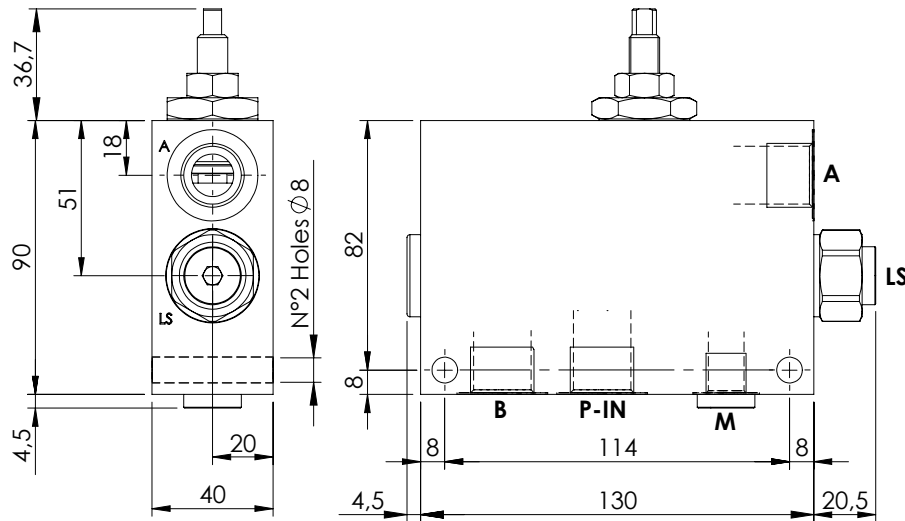
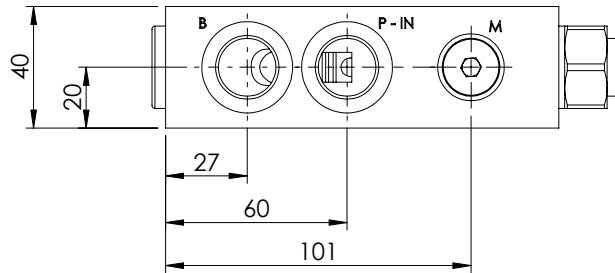
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjustment range (bar)	Pressure increase (bar/turn)
MF000344	MFCT-150-LHTR-90-G10-N210	R,E,T: G 1"	① 170 ② 150	① 100-200 ② 100-200	① 75 ② 75

**FLOW REGULATOR**

**MFPT-100-RHAR**

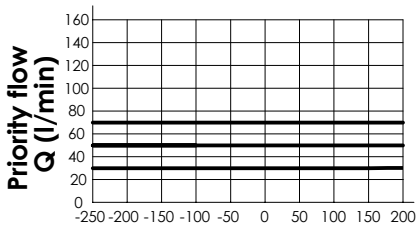
**PRESSURE COMPENSATED  
PRIORITY FLOW REGULATOR**



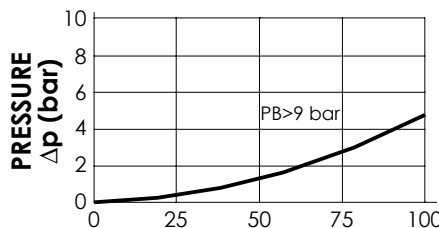
**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Manifold:	Steel
Weight:	3,38 kg

**ADJUSTMENT OPTIONS**



$PB > PA \leftarrow PA - PB \rightarrow PA > PB$   
(bar)



FLOW - Q (l/min)

**NOTES**

- For correct operation 8-9 bar must be present in port A. For open centre or low pressure systems a 9 bar check valve should be fitted in port A, see page 61.
- Spool switching can be influenced by flexing or stressing the valve body. It is recommended to fit spacers on the mounting bolts between the valve and the mounting surface.
- For options see pag. 22.00.000.

**ORDERING CODES**

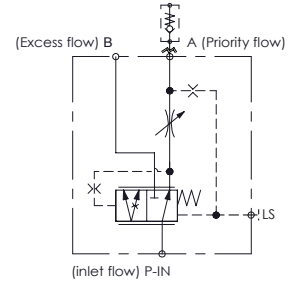
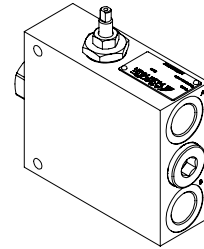
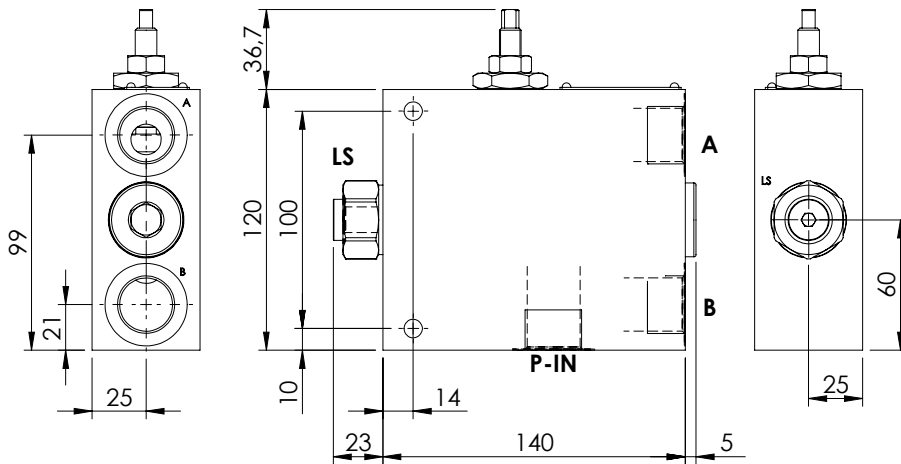
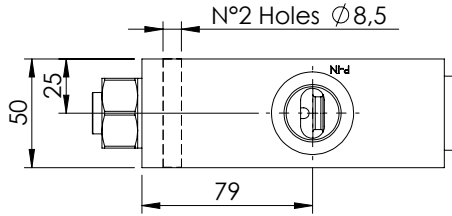
Quick code	Description	Main ports size	Max. inlet flow (l/min)	Max. regulated flow (l/min)	Adjustment options
MF000069	MFPT-100-RHAR-85-G12-N350	P-IN, A, B: G1/2" LS, M: G1/4"	100	85	Screw and locknut



**FLOW REGULATOR**

**MFPT-200-RHAR**

**PRESSURE COMPENSATED  
PRIORITY**



**SPECIFICATIONS**

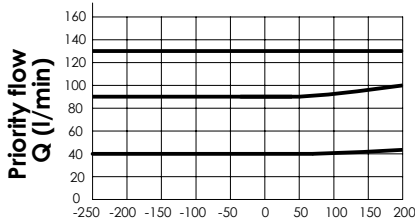
Max. operating pressure:	350 bar
Rated flow:	200 l/min
Regulated Flow:	1-140 l/min
Manifold:	Zinc plated steel
Weight:	4,9 kg

**ADJUSTMENT OPTIONS**

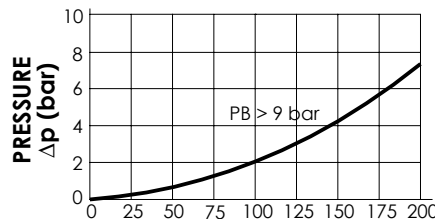
Screw and locknut		

**NOTES**

-For options see pag. 22.00.000.



PB > PA ← PA - PB → PA > PB  
(bar)



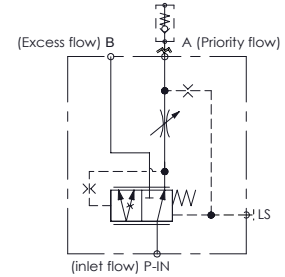
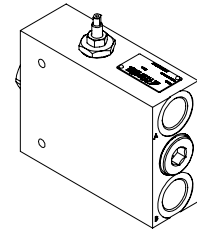
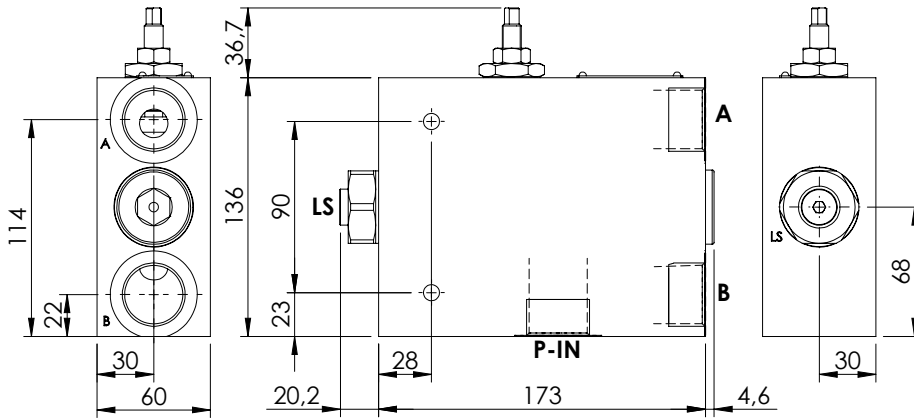
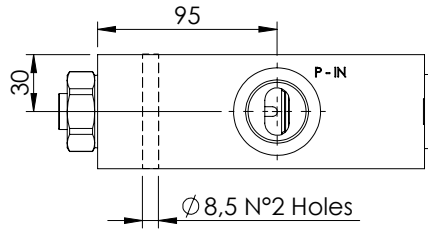
**ORDERING CODES**

Quick code	Description	Main ports size	Adjustment options
MF000141	MFPT-200-RHAR-14-G34-N350	P-IN,A,B: G 3/4" LS: G 1/4"	Screw and locknut

**FLOW REGULATOR**

**MFPT-300-RHAR**

**PRESSURE COMPENSATED  
PRIORITY**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	300 l/min
Regulated Flow:	1-220 l/min
Manifold:	Zinc plated steel
Weight:	4,9 kg

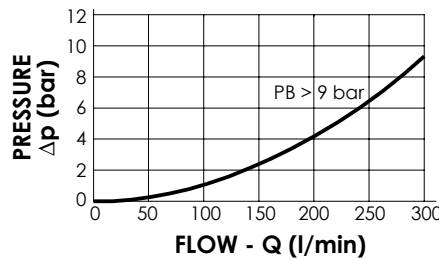
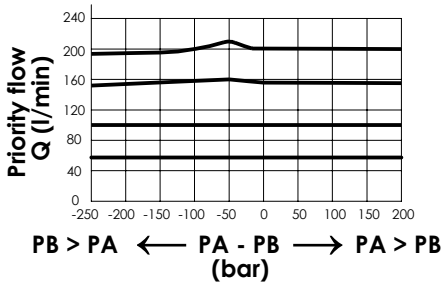
**ADJUSTMENT OPTIONS**



Screw and locknut

**NOTES**

-For options see pag. 22.00.000.



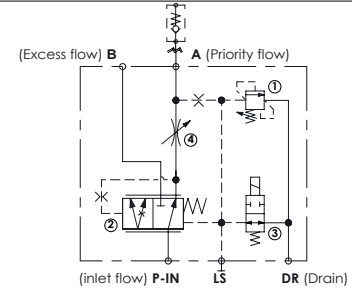
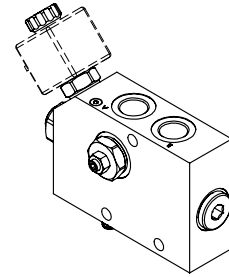
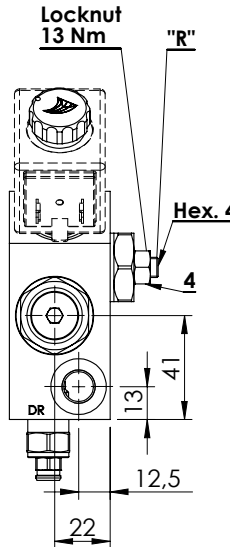
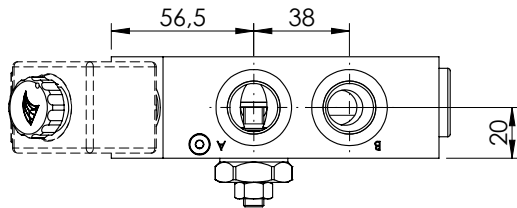
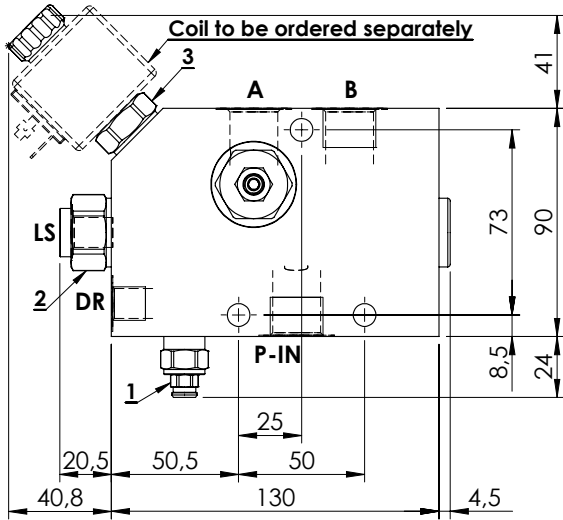
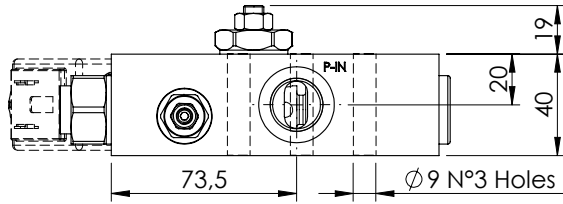
**ORDERING CODES**

Quick code	Description	Main ports size	Adjustment options
MF000283	MFPT-300-RHAR-20-G10-N350	P-IN,A,B: G 1" LS: G 1/4"	Screw and locknut

**FLOW REGULATOR**

**MFPT-100-MHAR**

**PRESSURE COMPENSATED PRIORITY FLOW REGULATOR FOR AUXILIARY CIRCUITS**

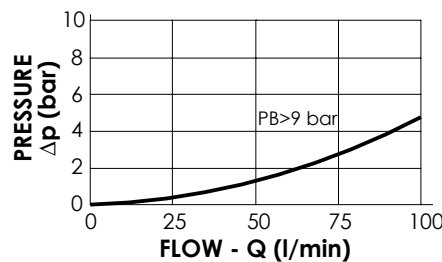
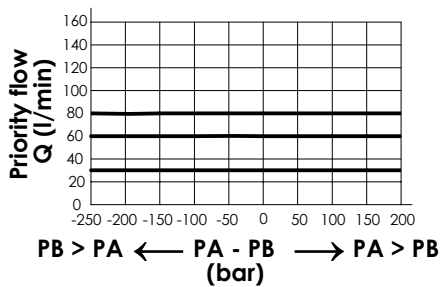


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Regulated Flow:	1,5 - 85 l/min
Manifold:	Zinc plated steel
Weight:	3,4 kg
Coil:	M7

**NOTES**

- Turn screw "R" anti-clockwise to increase regulated flow.
- Drain flow when de-energized 2 l/min.
- Max back pressure admitted on "DR" line 1,5 bar.
- For correct operation 8-9 bar must be present in port A. For open centre or low pressure systems a 9 bar check valve should be fitted in port A.
- Spool switching can be influenced by flexing or stressing the valve body. It is recommended to fit spacers on the mounting bolts between the valve and the mounting surface.
- See chapter four for suitable check valves.



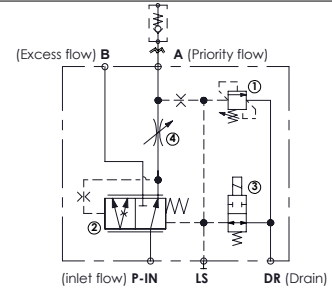
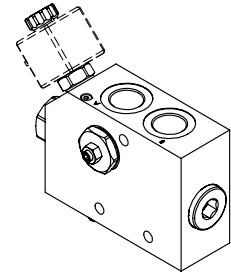
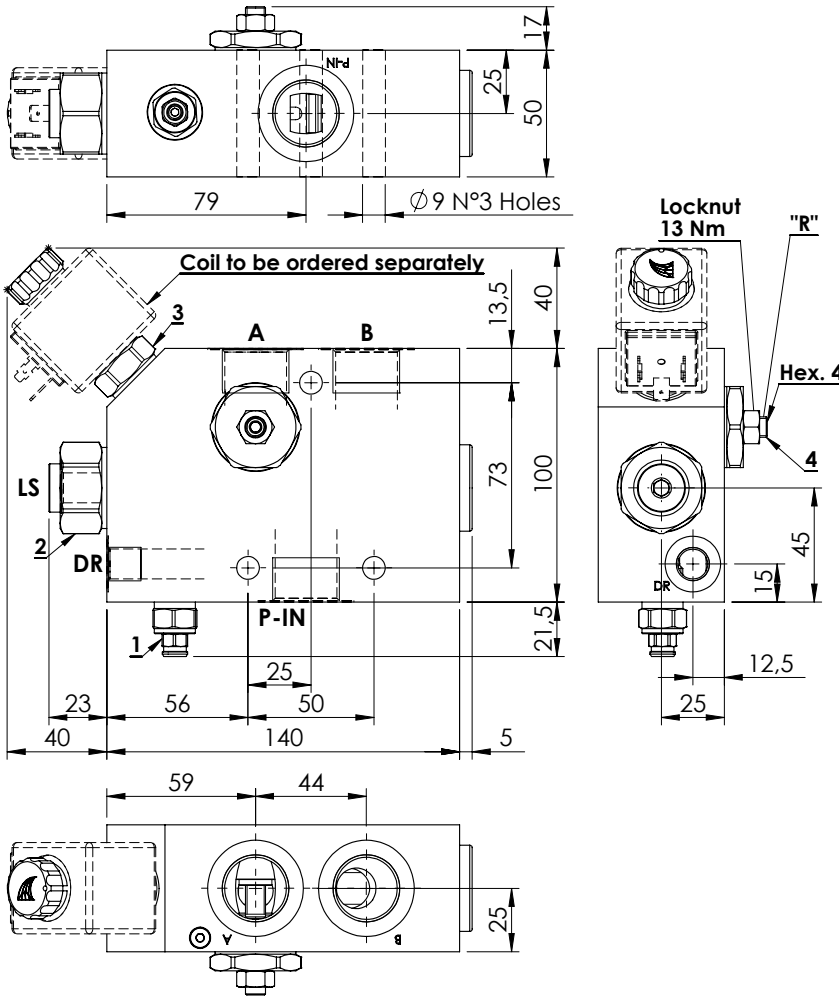
**ORDERING CODES**

Quick code	Description	Main ports size	Setting range (bar)	Standard setting (bar)	Adjustment (bar/turn)
MF000053	MFPT-100-MHAR-85-G12-N210	P-IN, A,B: G 1/2" DR,LS: G 1/4"	100 - 200	200	75
MF000054	MFPT-100-MHAR-85-G12-N350	P-IN, A,B: G 1/2" DR,LS: G 1/4"	150 - 350	350	165

**FLOW REGULATOR**

**MFPT-200-MHAR**

**PRESSURE COMPENSATED PRIORITY FLOW REGULATOR FOR AUXILIARY CIRCUITS**

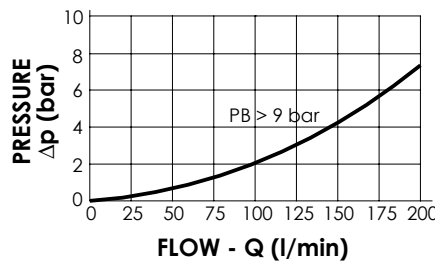
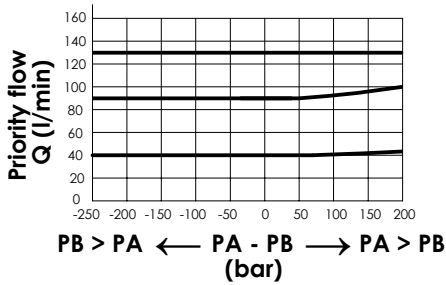


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	200 l/min
Regulated Flow:	1,5 - 140 l/min
Manifold:	Zinc plated steel
Weight:	4,9 kg
Coil:	M7

**NOTES**

- Turn screw "R" anti-clockwise to increase regulated flow.
- Drain flow when de-energized 2 l/min.
- Max back pressure admitted on "DR" line 1,5 bar.
- For correct operation 8-9 bar must be present in port A. For open centre or low pressure systems a 9 bar check valve should be fitted in port A.
- Spool switching can be influenced by flexing or stressing the valve body. It is recommended to fit spacers on the mounting bolts between the valve and the mounting surface.
- See chapter four for suitable check valves.



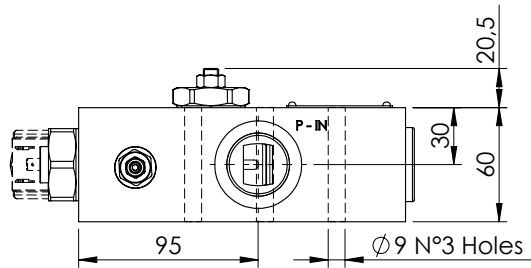
**ORDERING CODES**

Quick code	Description	Main ports size	Setting range (bar)	Standard setting (bar)	Adjustment (bar/turn)
MF000055	MFPT-200-MHAR-14-G34-N210	P-IN, A,B: G 3/4" DR,LS: G 1/4"	100 - 200	200	75
MF000056	MFPT-200-MHAR-14-G34-N350	P-IN, A,B: G 3/4" DR,LS: G 1/4"	150 - 350	350	165

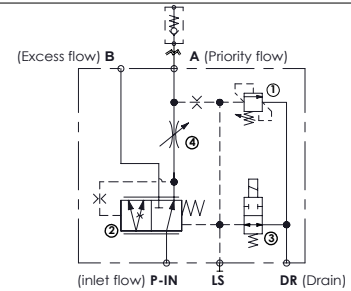
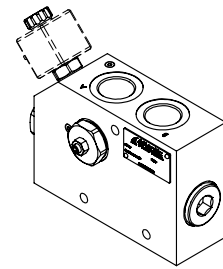
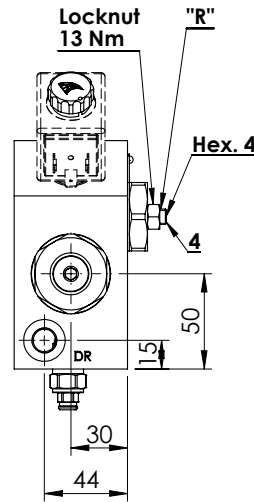
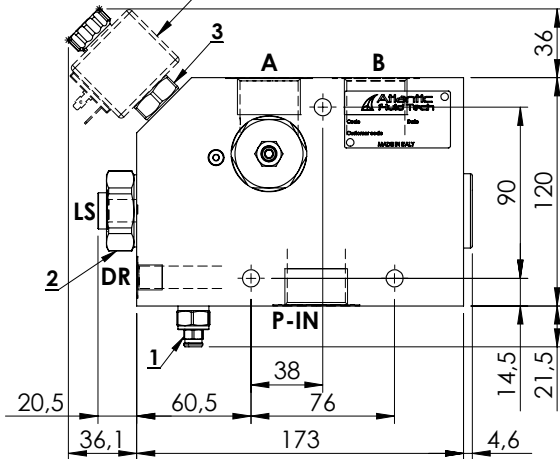
**FLOW REGULATOR**

**MFPT-300-MHAR**

**PRESSURE COMPENSATED PRIORITY FLOW REGULATOR FOR AUXILIARY CIRCUITS**



Coil to be ordered separately

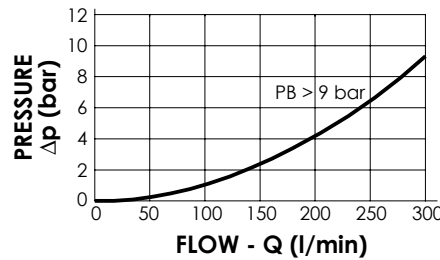
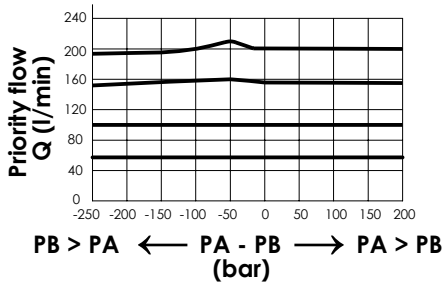


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	300 l/min
Regulated Flow:	1,5 - 220 l/min
Manifold:	Zinc plated steel
Weight:	8,6 kg
Coil:	M7

**NOTES**

- Turn screw "R" anti-clockwise to increase regulated flow.
- Drain flow when de-energized 2 l/min.
- Max back pressure admitted on "DR" line 1,5 bar.
- For correct operation 8-9 bar must be present in port A. For open centre or low pressure systems a 9 bar check valve should be fitted in port A .
- Spool switching can be influenced by flexing or stressing the valve body. It is recommended to fit spacers on the mounting bolts between the valve and the mounting surface.
- See chapter four for suitable check valves.



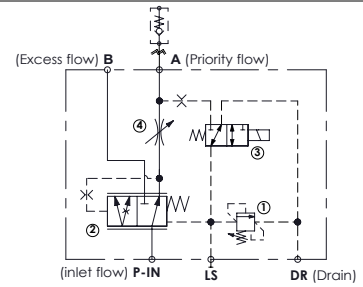
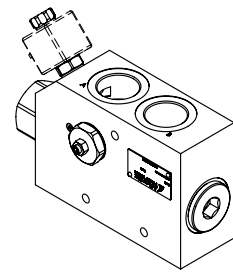
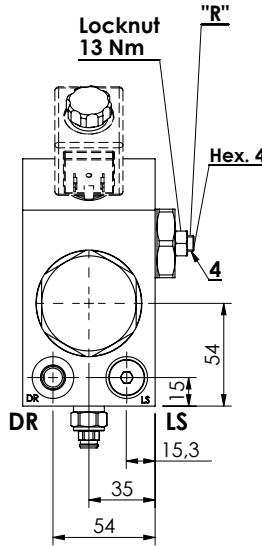
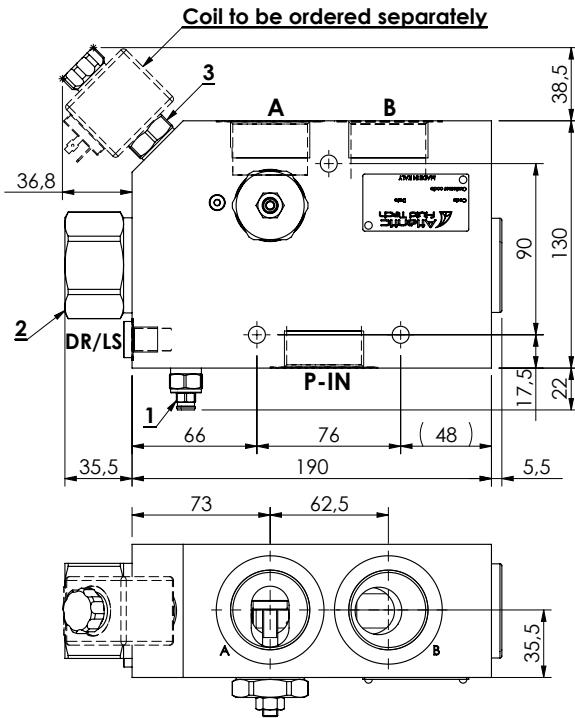
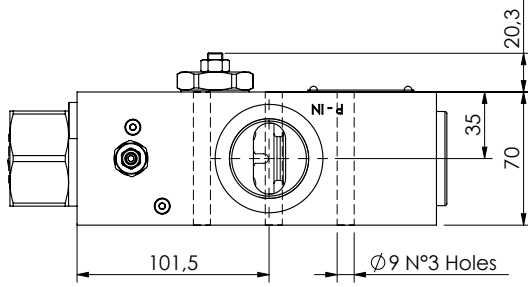
**ORDERING CODES**

Quick code	Description	Main ports size	Setting range (bar)	Standard setting (bar)	Adjustment (bar/turn)
MF000057	MFPT-300-MHAR-22-G10-N210	P-IN, A,B: G 1" DR,LS: G 1/4"	100 - 200	200	75
MF000058	MFPT-300-MHAR-22-G10-N350	P-IN, A,B: G 1" DR,LS: G 1/4"	150 - 350	350	165

**FLOW REGULATOR**

**MFPT-400-MHAR**

**PRESSURE COMPENSATED PRIORITY FLOW REGULATOR FOR AUXILIARY CIRCUITS**

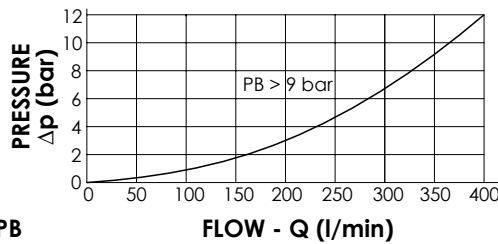
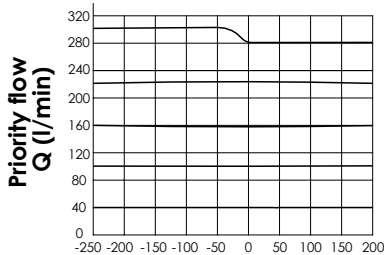


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	400 l/min
Regulated Flow:	1,5 - 300 l/min
Manifold:	Zinc plated steel
Weight:	11,4 kg
Coil:	M7

**NOTES**

- Turn screw "R" anti-clockwise to increase regulated flow.
- Drain flow when de-energized 2,5 l/min.
- Max back pressure admitted on "DR" line 1,5 bar.
- For correct operation 8-9 bar must be present in port A. For open centre or low pressure systems a 9 bar check valve should be fitted in port A .
- Spool switching can be influenced by flexing or stressing the valve body. It is recommended to fit spacers on the mounting bolts between the valve and the mounting surface.
- See chapter four for suitable check valves.



PB > PA ← PA - PB → PA > PB (bar)

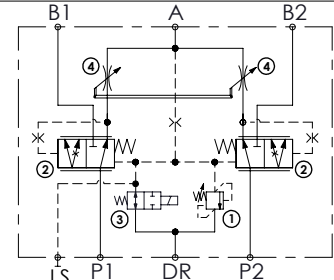
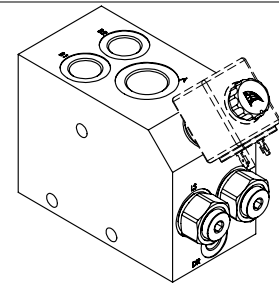
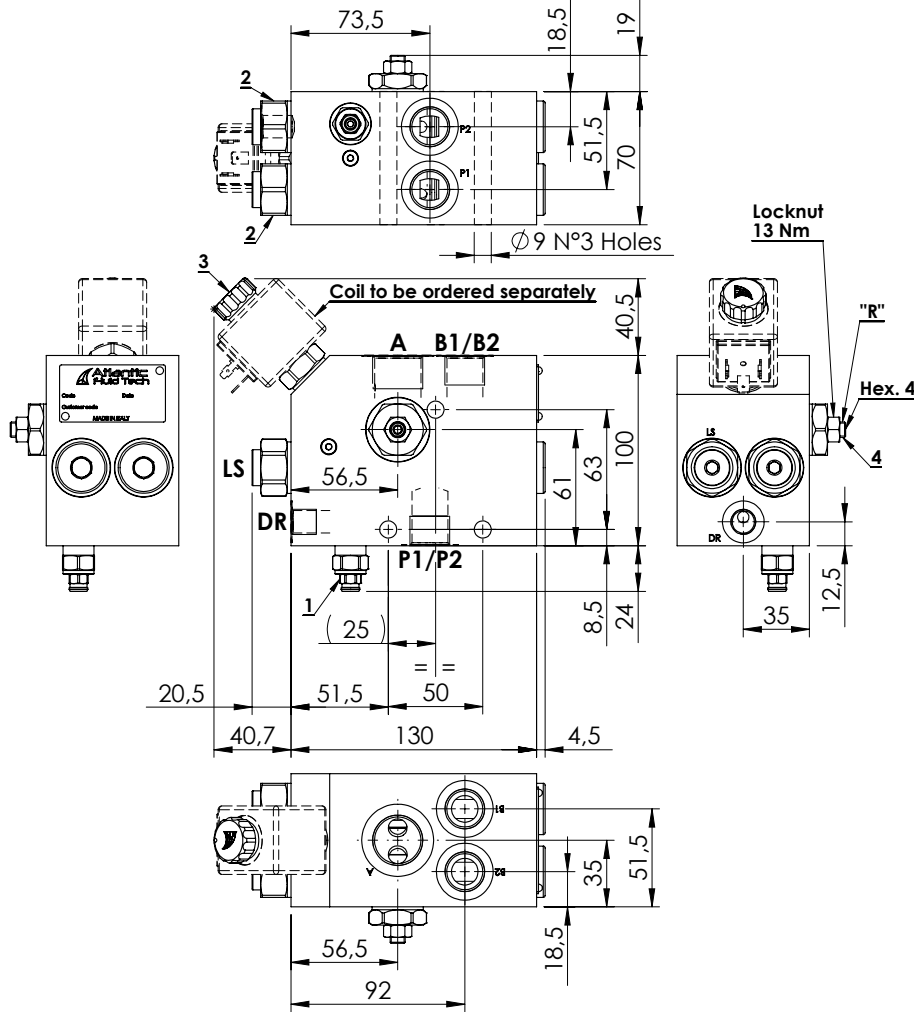
**ORDERING CODES**

Quick code	Description	Main ports size	Setting range (bar)	Standard setting (bar)	Adjustment (bar/turn)
MF000071	MFPT-400-MHAR-30-G11-N210	P-IN, A,B: G 1"-1/4 DR,LS: G 1/4"	100 - 200	200	75
MF000073	MFPT-400-MHAR-30-G11-N350	P-IN, A,B: G 1"-1/4 DR,LS: G 1/4"	150 - 350	350	165

**FLOW REGULATOR**

**MFTT-100-MHAR**

**PRESSURE COMPENSATED PRIORITY  
TWO PUMPS SYSTEM  
FLOW REGULATOR FOR  
AUXILIARY CIRCUITS**

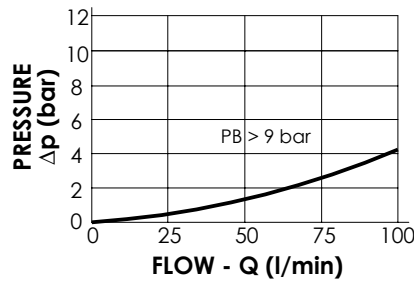
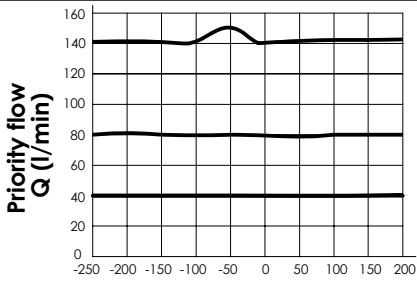


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	2 x 100 l/min
Regulated Flow:	3 - 150 l/min
Manifold:	Zinc plated steel
Weight:	6,5 kg
Coil:	M7

**NOTES**

- Turn screw "R" anti-clockwise to increase regulated flow.
- Drain flow when de-energized 4 l/min.
- Max back pressure admitted on "DR" line 1,5 bar.
- For correct operation 8-9 bar must be present in port A. For open centre or low pressure systems a 9 bar check valve should be fitted in port A .
- Spool switching can be influenced by flexing or stressing the valve body. It is recommended to fit spacers on the mounting bolts between the valve and the mounting surface.
- See chapter four for suitable check valves.



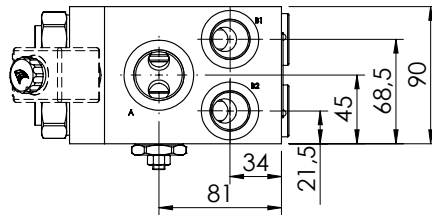
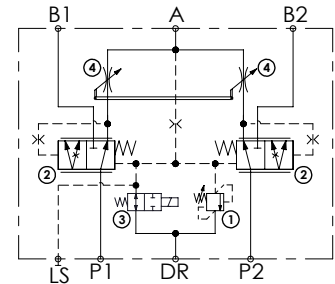
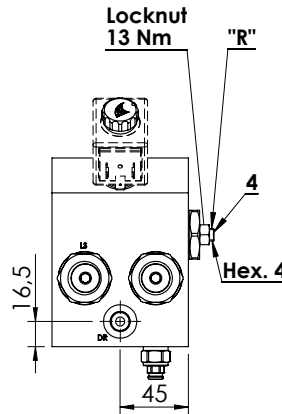
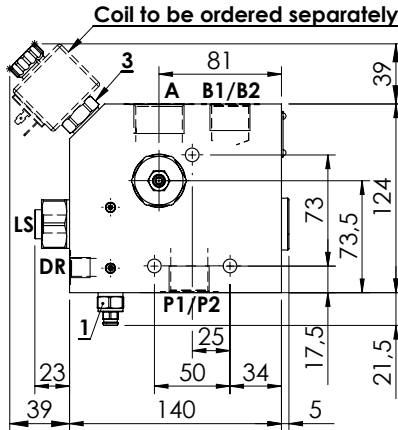
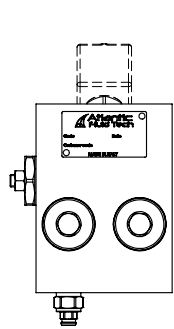
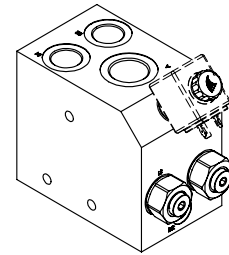
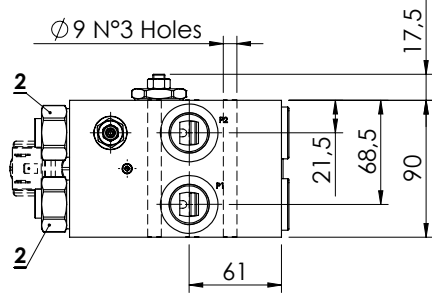
**ORDERING CODES**

Quick code	Description	Main ports size	Setting range (bar)	Standard setting (bar)	Adjustment (bar/turn)
MF000066	MFTT-100-MHAR-85-G12-N210	P1-P2-B1-B2: G 1/2" A: G3/4"; DR: G 1/4"	100 - 200	200	75
MF000067	MFTT-100-MHAR-85-G12-N350	P1-P2-B1-B2: G 1/2" A: G3/4"; DR: G 1/4"	150 - 350	350	165

**FLOW REGULATOR**

**MFTT-200-MHAR**

**PRESSURE COMPENSATED PRIORITY  
TWO PUMPS SYSTEM  
FLOW REGULATOR FOR  
AUXILIARY CIRCUITS**

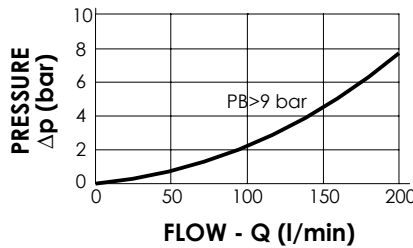
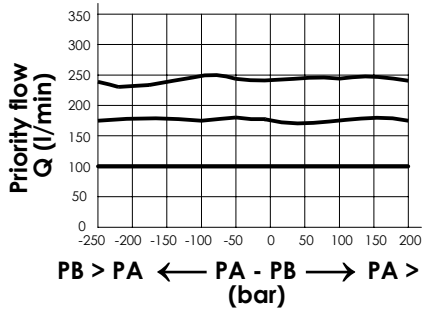


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	2 x 200 l/min
Regulated Flow:	3 - 250 l/min
Manifold:	Zinc plated steel
Weight:	10,9 kg
Coil:	M7

**NOTES**

- Turn screw "R" anti-clockwise to increase regulated flow.
- Drain flow when de-energized 4 l/min.
- Max back pressure admitted on "DR" line 1,5 bar.
- For correct operation 8-9 bar must be present in port A. For open centre or low pressure systems a 9 bar check valve should be fitted in port A.
- Spool switching can be influenced by flexing or stressing the valve body. It is recommended to fit spacers on the mounting bolts between the valve and the mounting surface.
- See chapter four for suitable check valves.



**ORDERING CODES**

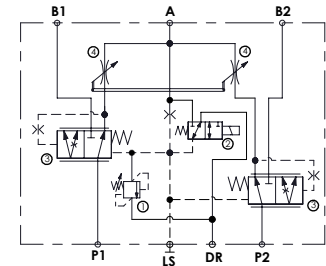
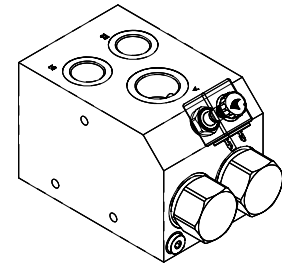
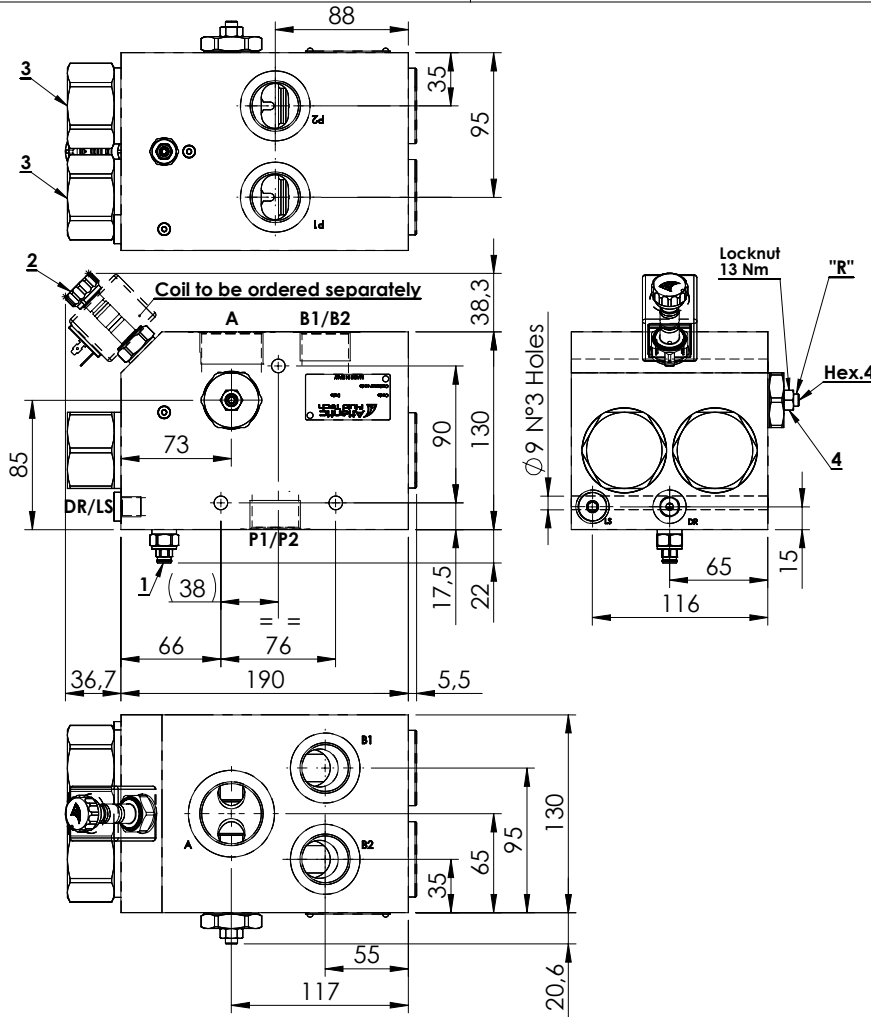
Quick code	Description	Main ports size	Setting range (bar)	Standard setting (bar)	Adjustment (bar/turn)
MF000064	MFTT-200-MHAR-14-G34-N210	P1-P2-B1-B2: G3/4" A: G1"; T: G1/4"	100-200	200	75
MF000065	MFTT-200-MHAR-14-G34-N350	P1-P2-B1-B2: G3/4" A: G1"; T: G1/4"	150-350	350	165



**FLOW REGULATOR**

**MFTT-300-MHAR**

**PRESSURE COMPENSATED PRIORITY  
TWO PUMPS SYSTEM  
FLOW REGULATOR FOR  
AUXILIARY CIRCUITS**

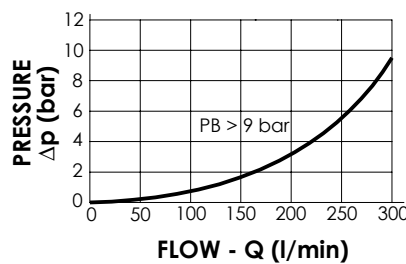
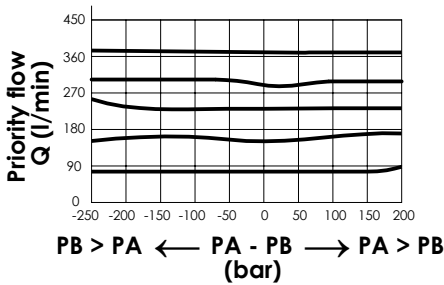


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	2 x 300 l/min
Regulated Flow:	1,5 - 300 l/min
Manifold:	Zinc plated steel
Weight:	22,33 kg
Coil:	M7

**NOTES**

- Turn screw "R" anti-clockwise to increase regulated flow.
- Drain flow when de-energized 4 l/min.
- Max back pressure admitted on "DR" line 1,5 bar.
- For correct operation 8-9 bar must be present in port A. For open centre or low pressure systems a 9 bar check valve should be fitted in port A.
- Spool switching can be influenced by flexing or stressing the valve body. It is recommended to fit spacers on the mounting bolts between the valve and the mounting surface.
- See chapter four for suitable check valves.



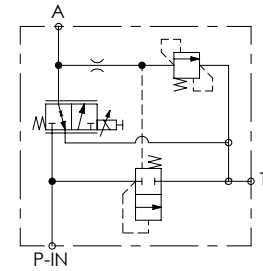
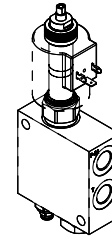
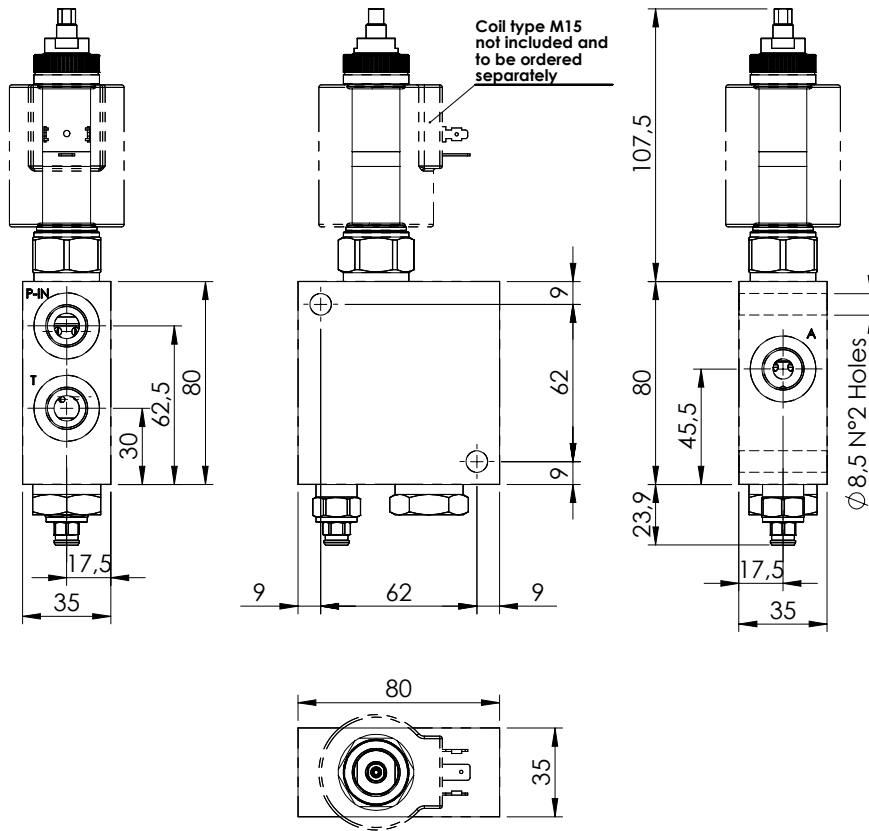
**ORDERING CODES**

Quick code	Description	Main ports size	Setting range (bar)	Standard setting (bar)	Adjustment (bar/turn)
MF000275	MFTT-300-MHAR-30-G11-N350	P1,P2,B1,B2: G 1" A: G 1-1/4" DR,LS: G 1/4"	120-350	350	165

**FLOW REGULATOR**

**MFCZ-040-LSLR**

**PROPORTIONAL VALVE  
COMPENSATED**

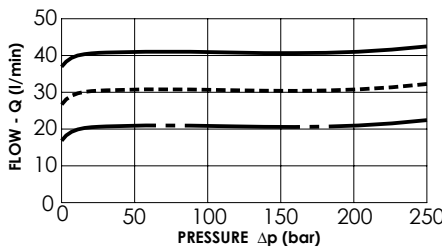


**SPECIFICATIONS**

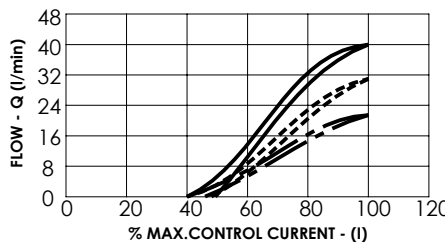
Max. operating pressure:	210 bar
Rated flow:	40 l/min
Recommended PWM range:	150-180 Hz
Weight:	0,84 kg
Manifold:	Aluminium
Coil type:	M15
Max. int. leakage:	150 cm <sup>3</sup> /min (@46 cst)

**NOTES**

- Bleed air before use
- Manual override screw type
- See chapter 18.00.000 for coil.



MF000294 3>2 ———



MF000296 3>2 — — — —

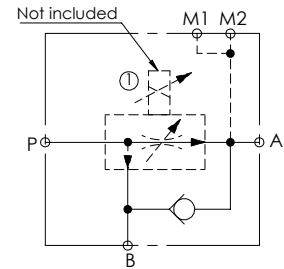
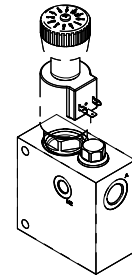
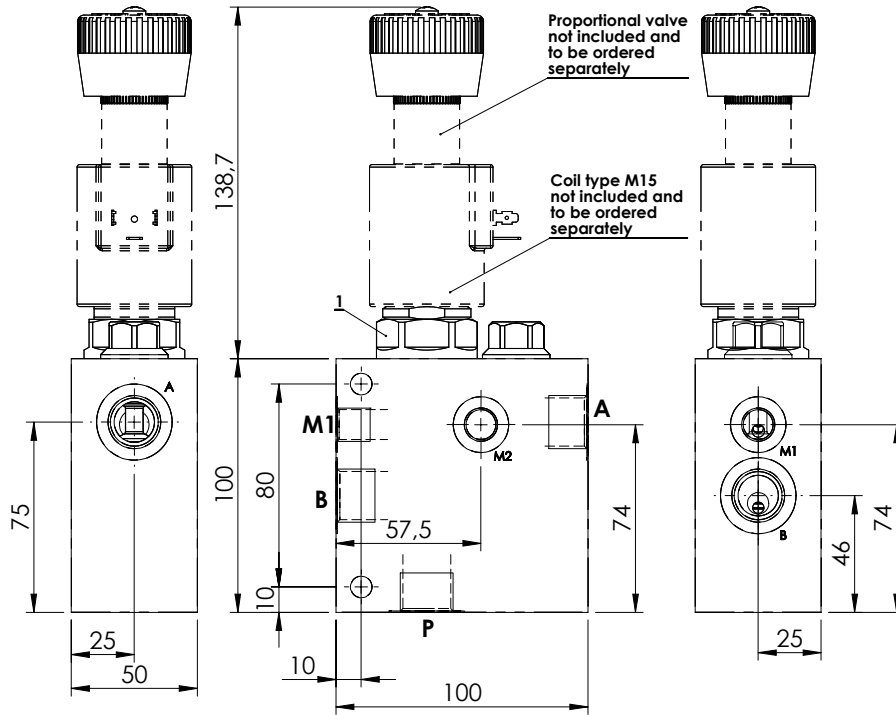
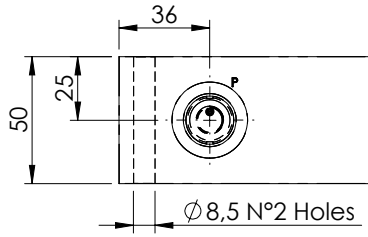
**ORDERING CODES**

Quick code	Description	Rated flow (l/min)	Ports	Threshold current (with 12VDC coil)	Max control current (with 12V DC coil)
MF000294	MFCZ-040-LSLR-40-G38-N210	40	G 3/8"	800 mA (+/-7%)	1600 mA (+/-7%)
MF000295	MFCZ-030-LSLR-30-G38-N210	30	G 3/8"	700 mA (+/-7%)	1500 mA (+/-7%)
MF000296	MFCZ-020-LSLR-20-G38-N210	20	G 3/8"	700 mA (+/-7%)	2400 mA (+/-7%)

**FLOW REGULATOR**

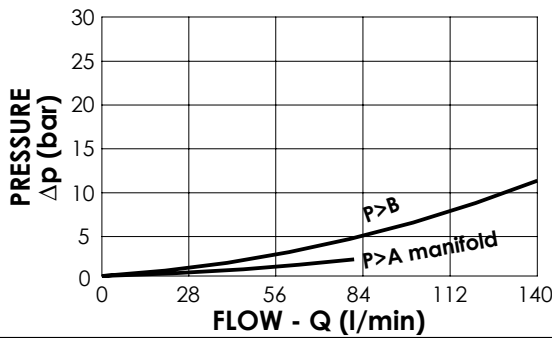
**MFPC-140-AMLR**

**PROPORTIONAL VALVES WITH ANTICAVITATION**



**SPECIFICATIONS**

Max. operating pressure:	320 bar
Rated flow:	140 l/min
Max regulated flow:	0 - 80 l/min
Manifold:	Aluminium
Weight:	1,1 kg
Coil type:	M15
Cavity type:	SAE-16-3N



**NOTES**

- See chapter 18.00.000 for coil.
- See chapter 16.00.000 for proportional valve info.

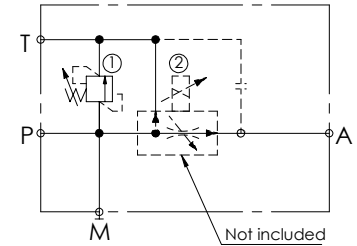
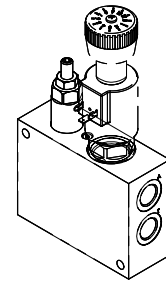
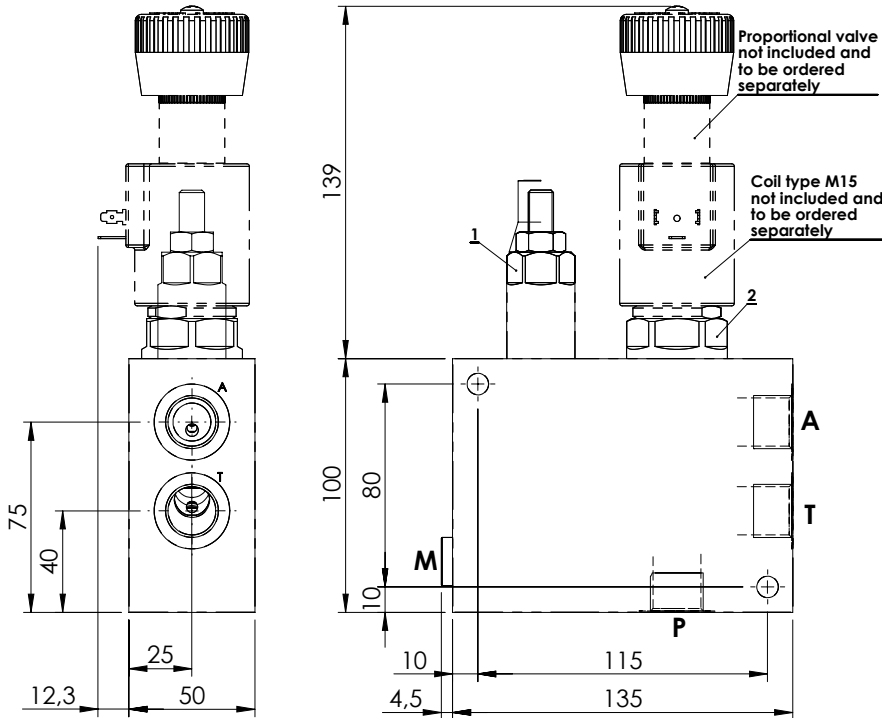
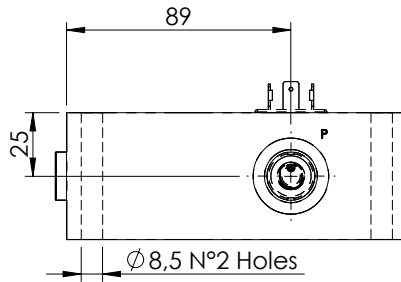
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MF000349	MFPC-140-AMLR-80-G12-N320	P,A,T: G1/2" M: G1/4"	200	60-210	24

**FLOW REGULATOR**

**MFPC-140-LMLR**

**PROPORTIONAL VALVE WITH RELIEF**

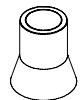


**SPECIFICATIONS**

Max. operating pressure:	320 bar
Rated flow:	140 l/min
Max regulated flow:	0 - 80 l/min
Manifold:	Aluminium
Weight:	1,7 kg
Coil type:	M15
Cavity type:	SAE-16-3N

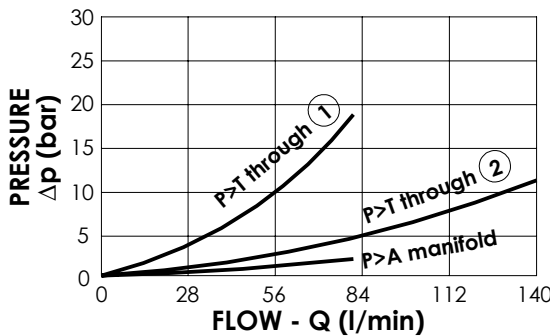
**SEALING CAP**

Ordering code:  
**AT000021**



**NOTES**

- See chapter 18.00.000 for coil.
- See chapter 16.00.000 for proportional valve info.



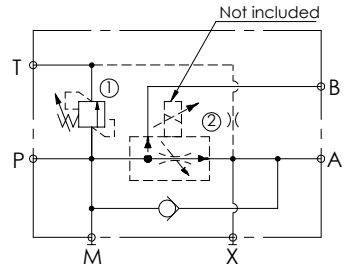
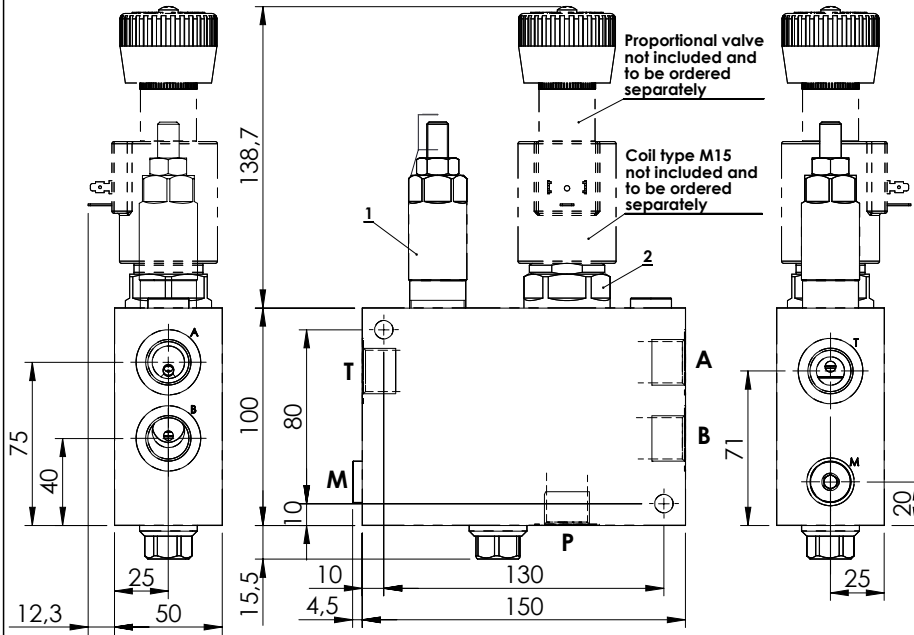
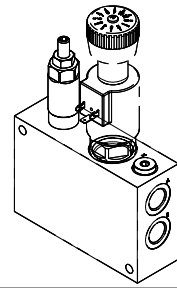
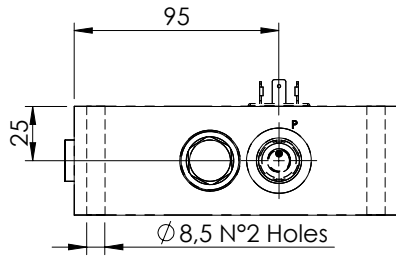
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MF000350	MFPC-140-LMLR-80-G12-N320	P,A,T: G1/2" M: G1/4"	200	60-210	24

**FLOW REGULATOR**

**MFPC-140-TMLR**

**PROPORTIONAL VALVES  
WITH BYPASS CHECK  
WITH RELIEF**

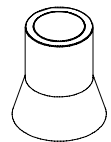


**SPECIFICATIONS**

Max. operating pressure:	320 bar
Rated flow:	140 l/min
Max regulated flow:	0 - 80 l/min
Manifold:	Aluminium
Weight:	2,0 kg
Coil type:	M15
Cavity type:	SAE-16-3N

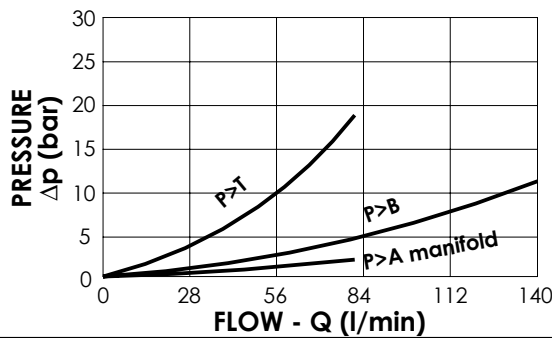
**SEALING CAP**

Ordering code:  
**AT000021**



**NOTES**

- See chapter 18.00.000 for coil.
- See chapter 16.00.000 for proportional valve info.



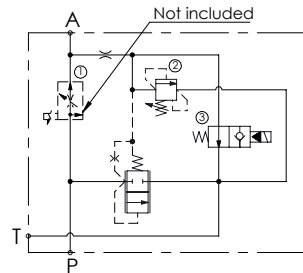
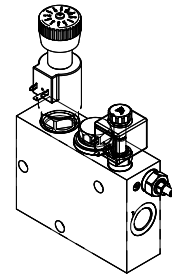
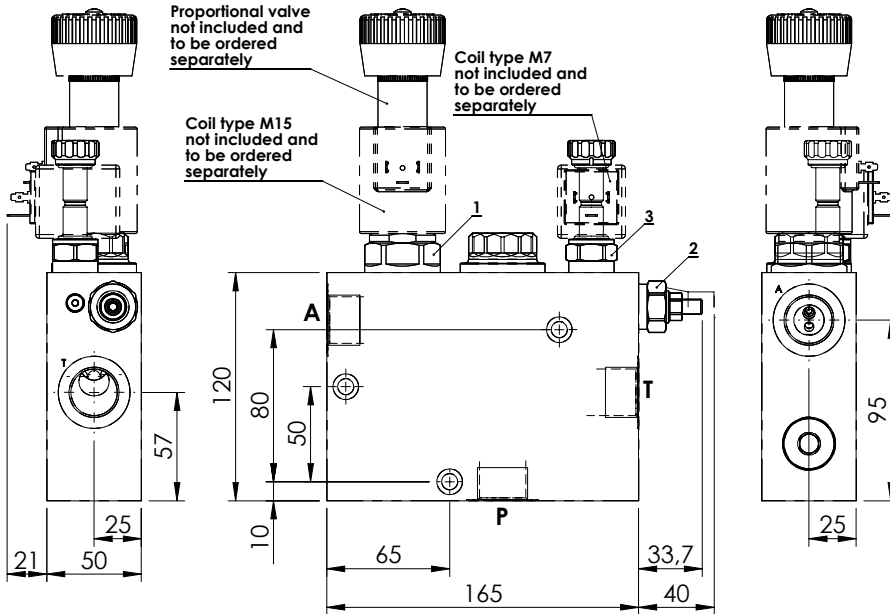
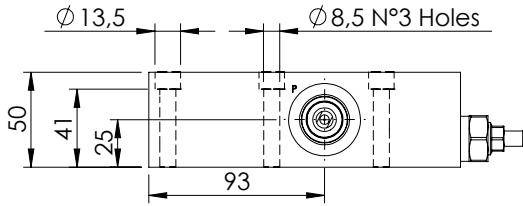
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MF000351	MFPC-140-TMLR-80-G12-N320	P,A,T: G1/2" M: G1/4"	200	60-210	24

**FLOW REGULATOR**

**MFPC-200-MMAR**

**PROPORTIONAL VALVES WITH UNLOADING WITH RELIEF**



**SPECIFICATIONS**

Max. operating pressure:	320 bar
Rated flow:	200 l/min
Max regulated flow:	0 - 80 l/min
Manifold:	Zinc plated steel
Weight:	6,72 kg
Coil type:	M7 - M15
Cavity type:	SAE-16-3N

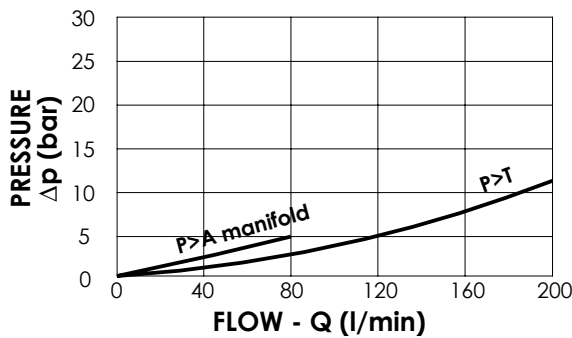
**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

- See chapter 18.00.000 for coils.
- See chapter 16.00.000 for proportional valve info.



**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MF000352	MFPC-200-MMAR-80-G12-N320	P,T,R: G 3/4"	220	140-350	142

**SECTION 14****SPECIAL VALVES**

<b>Chapter</b>	<b>Valve type</b>	<b>Page</b>
14. 1	Fan drive blocks	14.01.000
14. 2	Differential lock valves	14.02.000
14. 3	Unloading - Inloading valves	14.03.000
14. 4	Filter blocks	14.04.000
14. 5	End of stroke valves	14.05.000
14. 6	Pilot blocks	14.06.000
14. 7	Automatic Switching Valves	14.07.000
14. 8	Load Limiting Device	14.08.000





SECTION 14. 1

**SPECIAL VALVES - FAN DRIVE BLOCKS**

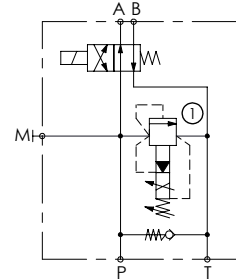
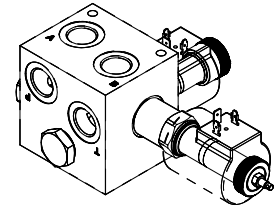
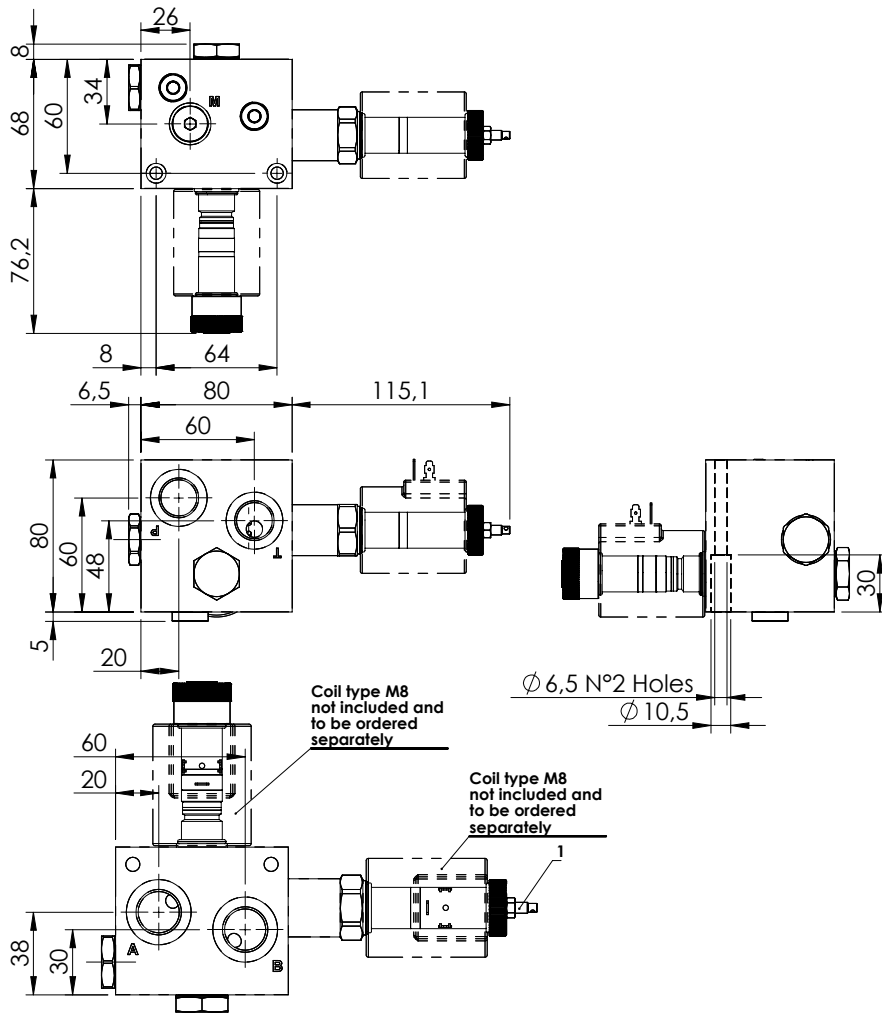


Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	BNND-045-GEC	With proportional pressure control	45	320	In line	G 1/2"	14.01.010

FAN DRIVE BLOCKS

**BNND-045-GEC**

**PROPORTIONAL  
PRESSURE CONTROL  
WITH INVERSION**

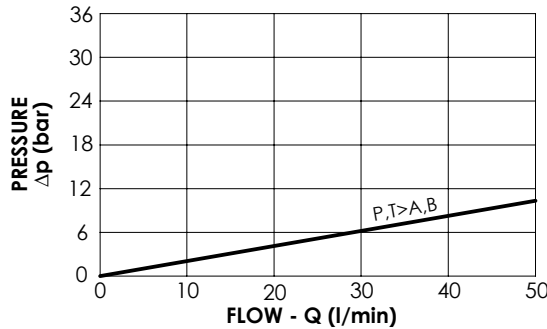


**SPECIFICATIONS**

Max. operating pressure:	320 bar
Rated flow:	45 l/min
Manifold:	Cast Iron
Weight:	3,29 kg
Coil:	M8

**NOTES**

- When valve ① is energized the pressure lowers from the setting to.
- See chapter 18.00.000 for coil.



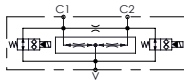
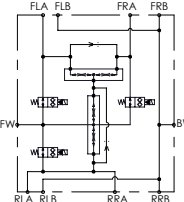
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar)	Setting range (bar)
BD000198	BNND-045-GEC-NP-G12-N320	P,T,A,B:G1/2" M:G1/4"	210	100-320

**SECTION 14. 2**

**SPECIAL VALVES - DIFFERENTIAL LOCK VALVES**

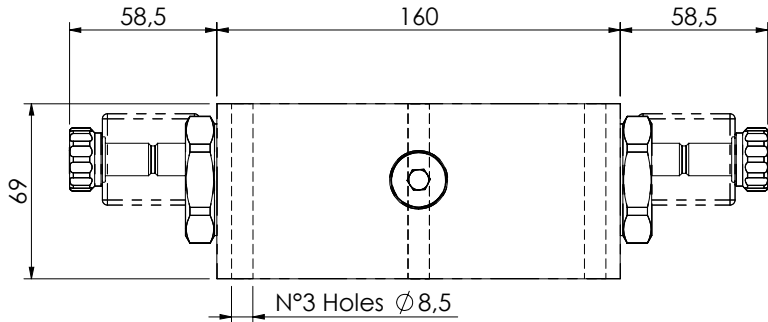


Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	MFDT-150-BFAR-55 MFDT-150-BFAR-95	With electric bypass With electric bypass	150 150	350 350	In line In line	G 1/2" G 1/2"	14.02.010 14.02.010
	MFDT-150-BFAR-95	With electric bypass for three motors transmission	200	500	In line	G 3/4"	14.02.020

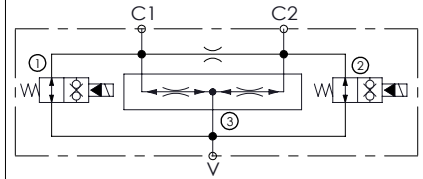
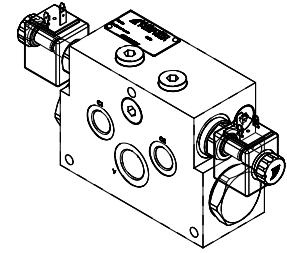
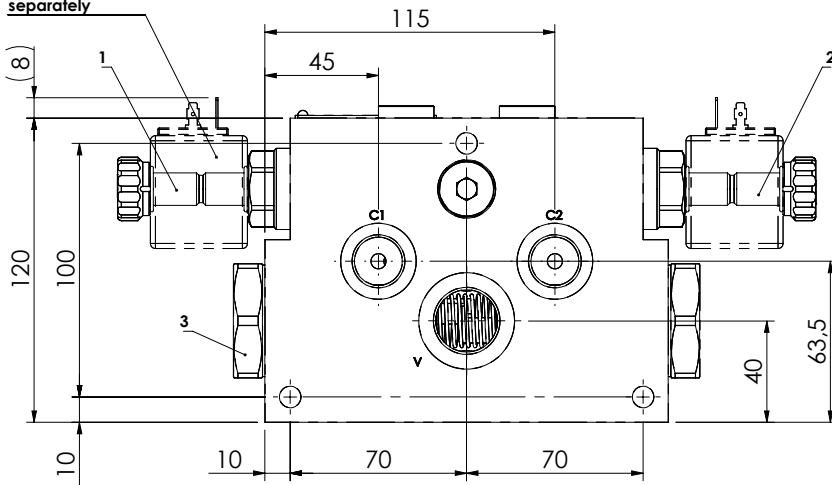
**DIFFERENTIAL LOCK VALVE**

**MFDT-150-BFAR**

**WITH ELECTRIC BYPASS**

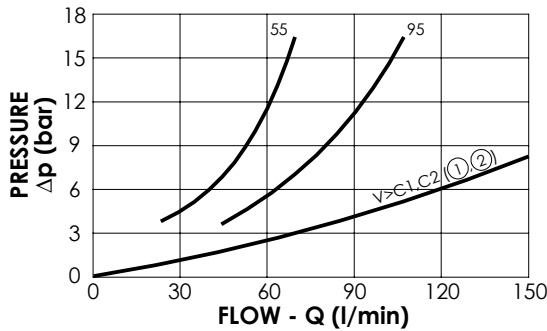


Coil type M7 not included and to be ordered separately



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Regulated Flow:	See table
Manifold:	Steel
Weight:	9,1 kg
Coil:	M7



**NOTES**

- For other flow ranges contact AFT sales network.
- See chapter 18.00.000 for coil.

**ORDERING CODES**

Quick code	Description	Main ports size	Regulated flow range (l/min)	
MF000347	MFDT-150-BFAR-55-G34-N350	C1,C2: G1/2" V: G3/4"	28-55	
MF000348	MFDT-150-BFAR-95-G34-N350	C1,C2: G1/2" V: G3/4"	56-95	





**SECTION 14.3**

**SPECIAL VALVES - UNLOADING/INLOADING VALVES**

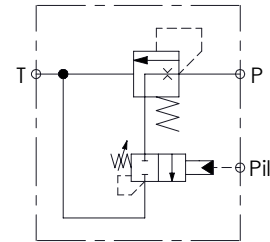
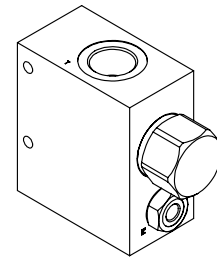
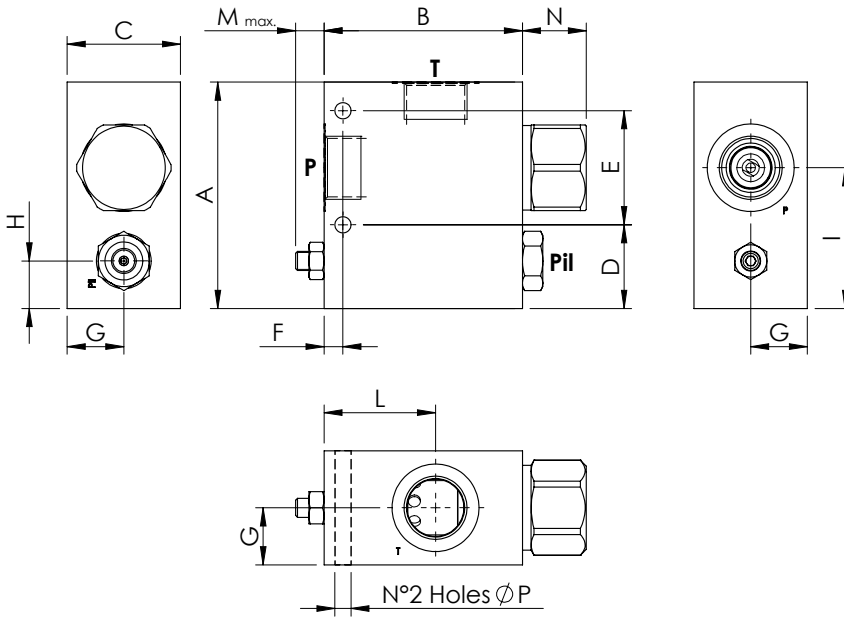


Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	MTLN-120-TLSA MTLN-200-TLSA MTLN-250-TLSA	Spool type, pump unloading, piloted	120 200 250	210 210 210	In line	G 1/2" G 3/4" G 1"	14.03.010 14.03.010 14.03.010
	MFTS-200-DHAN MFTS-200-DHAN MFTS-200-DHAN	Solenoid operated unloading valve, with relief	200 200 200	250 250 350	In line	G 3/4" G 1" G 1"	14.03.020 14.03.030 14.03.040
	MTTD-040-TLPN		40	210	In line	G 1/2"	14.03.050
	MTTE-150-SLSN	Solenoid operated unloading valve, piloted	150	350	In line	1 1/16"-15 UNF	14.03.060
	MTSB-030-SDSN	For Cetop 5	30	350	Flanged	Cetop 5	14.03.070
	MFTS-060-EFCE		60	350	In line	1 1/16"-12 UNF	14.03.080
	MTSD-150-TLNA		150	300	In line	G 3/4"	14.03.090

UNLOADING VALVE

**MTTP-XXX-TLSN**

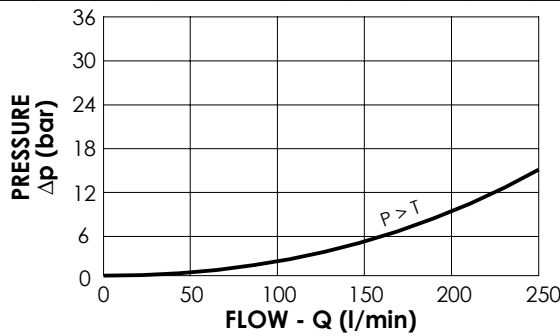
**PUMP UNLOADING  
PILOTED**



**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	See table
Manifold:	Aluminium
Weight:	2,49 kg

A	B	C	D	E	F	G	H	I	L	M	N	P	CODE
119	105	60	44	60	10	30	25	74	59	15	38,8	8,5	MT000007
105	100	40	35	45	15	20	16	56	52	19,5	18,8	8,5	MT000015
90	100	40	35	45	15	20	16	56	52	19,5	18,8	8,5	MT000014



**ORDERING CODES**

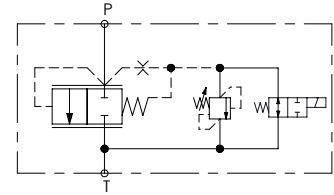
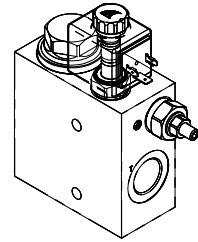
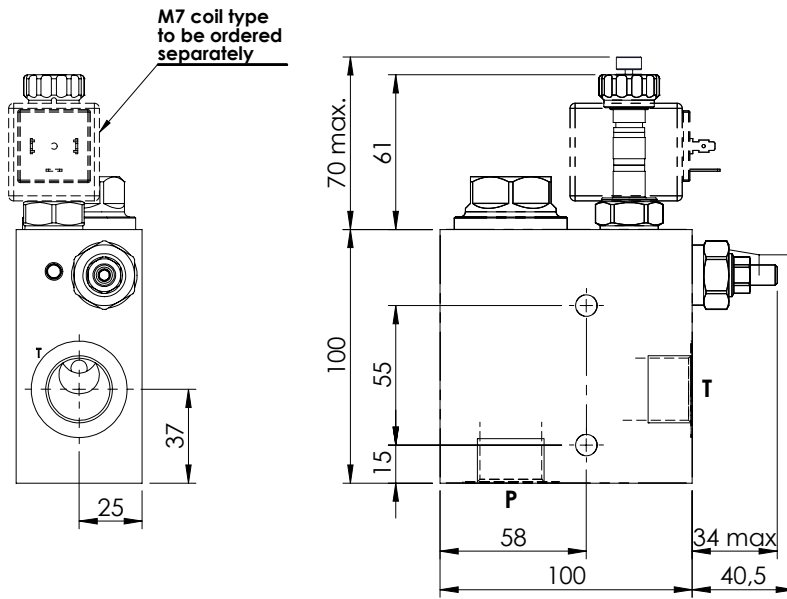
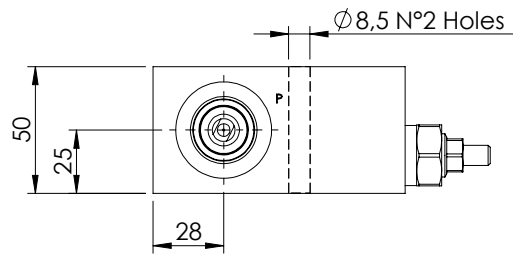
Quick code	Description	Main ports size	Nominal flow (l/min)	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MT000007	MTTP-250-TLSN-NP-G10-N210	P,T:G 1" Pil:G 1/4"	250	200	70 - 210	49
MT000015	MTTP-200-TLSN-NP-G34-N210	P,T:G 3/4" Pil:G 1/4"	200	200	70 - 210	49
MT000014	MTTP-120-TLSN-NP-G12-N210	P,T:G 1/2" Pil:G 1/4"	120	130	70 - 210	49



**UNLOADING VALVE**

**MFTS-200-DHAN**

**SOLENOID OPERATED  
UNLOADING VALVE  
WITH RELIEF**

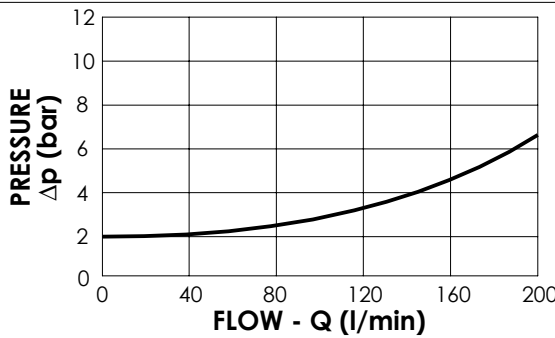
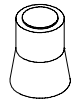


**SPECIFICATIONS**

Max. operating pressure:	250 bar
Rated flow:	200 l/min
Manifold:	Aluminium
Weight:	1,67 kg
Coil type:	M7

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Internal leakage: 80 cc/min  
Available in steel version for 350 bar maximum operating pressure  
See chapter 18.00.000 for coil.

**OPTIONS**



Standard



Push style override

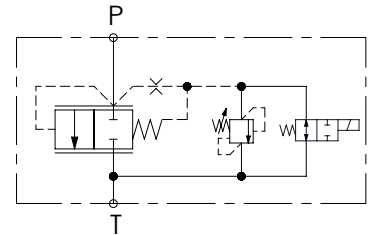
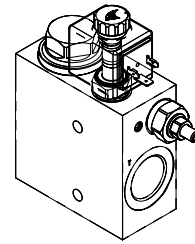
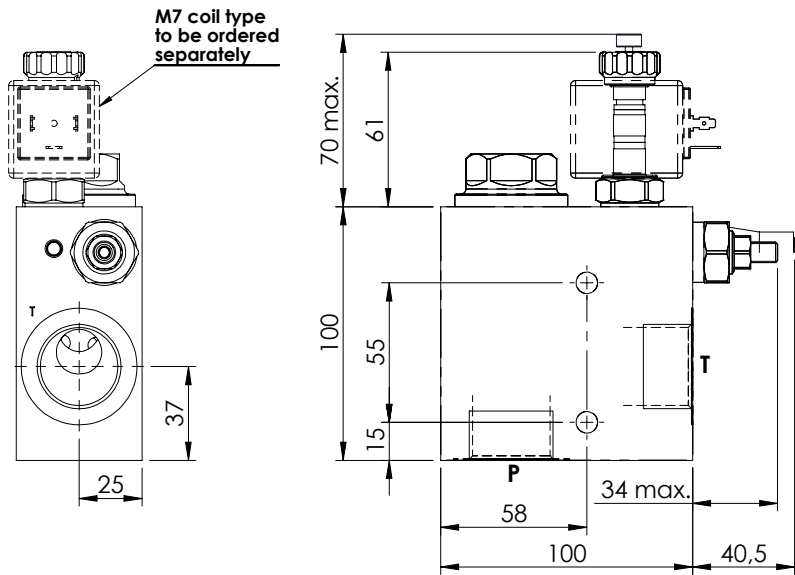
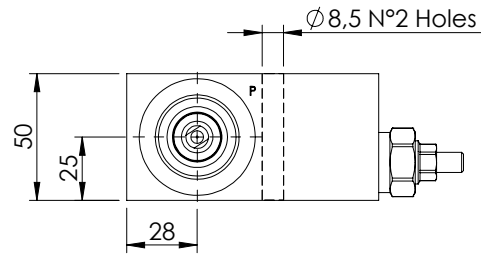
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
MF000038	MFTS-200-DHAN-NP-G34-N250	G 3/4"	200	100-350	142	Standard
MF000044	MFTS-200-DHAE-NP-G34-N250	G 3/4"	200	100-350	142	Push style override

UNLOADING VALVE

**MFTS-200-DHAN**

**SOLENOID OPERATED  
UNLOADING VALVE  
WITH RELIEF**

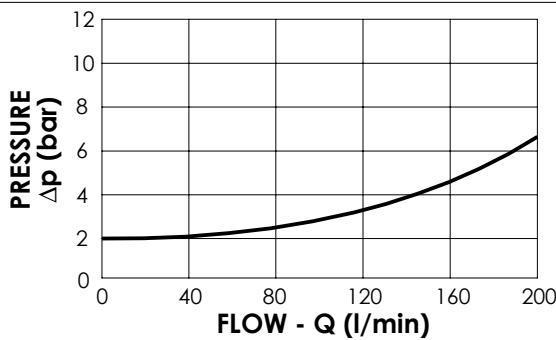
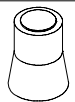


**SPECIFICATIONS**

Max. operating pressure:	250 bar
Rated flow:	200 l/min
Manifold:	Aluminium
Weight:	1,63 kg
Coil type:	M7

**SEALING CAP**

Ordering code:  
**AT000020**



**NOTES**

Internal leakage: 80 cc/min  
Available in steel version for 350 bar maximum operating pressure  
See chapter 18.00.000 for coil.

**OPTIONS**



Standard



Push style override

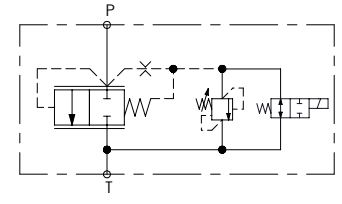
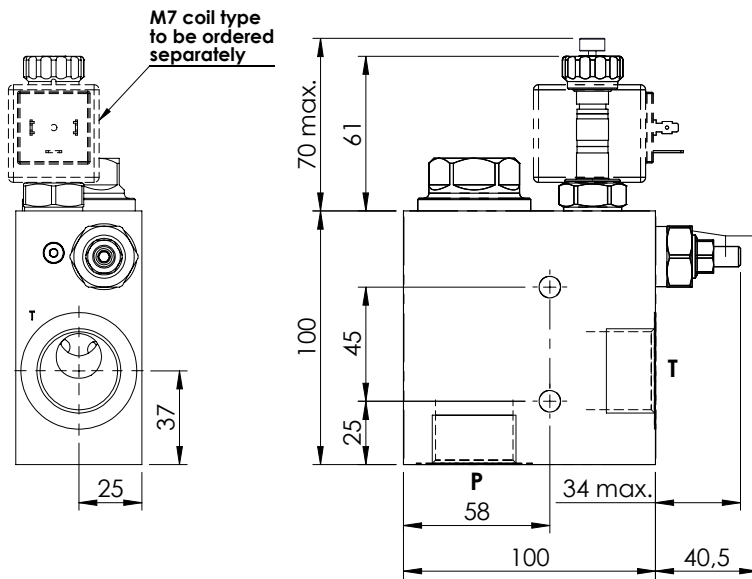
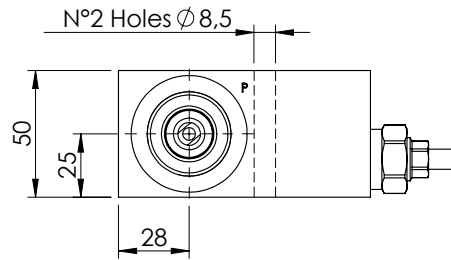
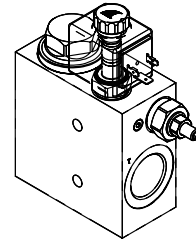
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
MF000039	MFTS-200-DHAN-NP-G10-N250	G 1"	200	100-350	142	Standard
MF000043	MFTS-200-DHAE-NP-G10-N250	G 1"	200	100-350	142	Push style override

UNLOADING VALVE

**MFTS-200-DHAN**

**SOLENOID OPERATED  
UNLOADING VALVE  
WITH RELIEF**

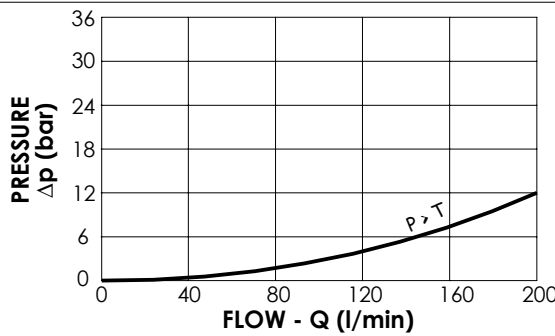
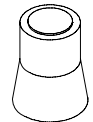


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	200 l/min
Manifold:	Steel
Weight:	3,55 kg

**SEALING CAP**

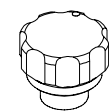
Ordering code:  
**AT000020**



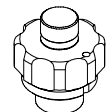
**NOTES**

See chapter 18.00.000 for coil.

**OPTIONS**



Standard



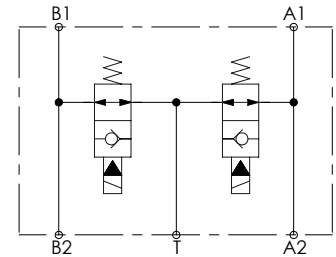
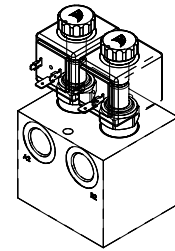
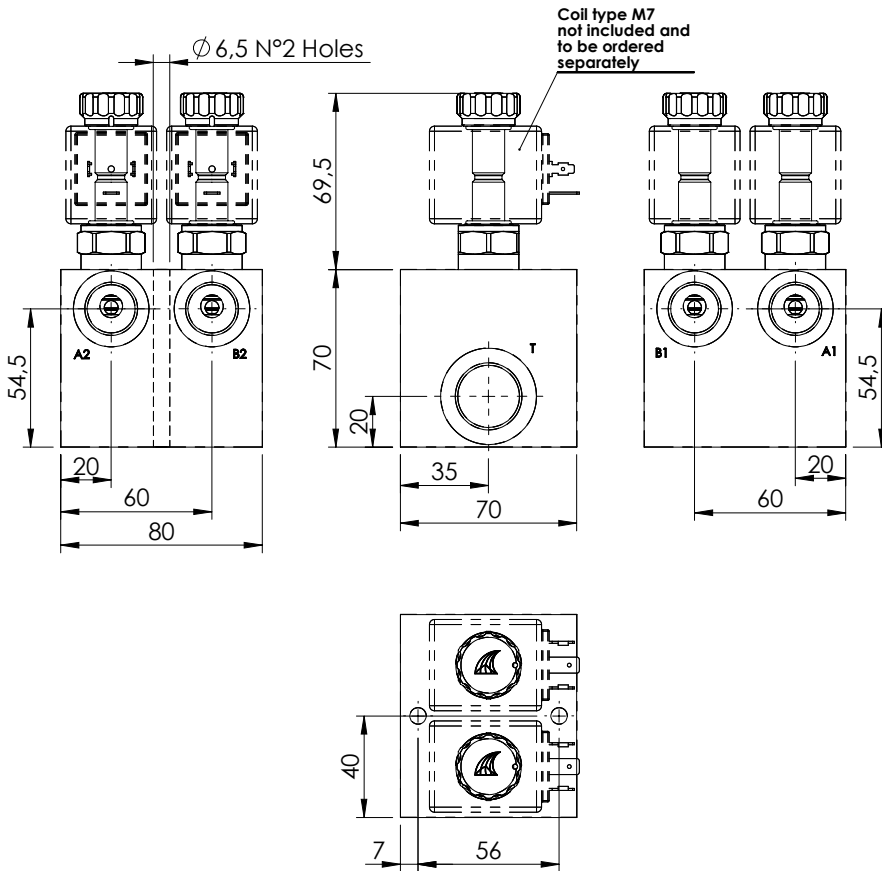
Push style  
override

**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
MF000083	MFTS-200-DHAN-NP-G10-N350	G 1"	350	140-350	142	Standard
MF000103	MFTS-200-DHAE-NP-G10-N350	G 1"	350	140-350	142	Push style override

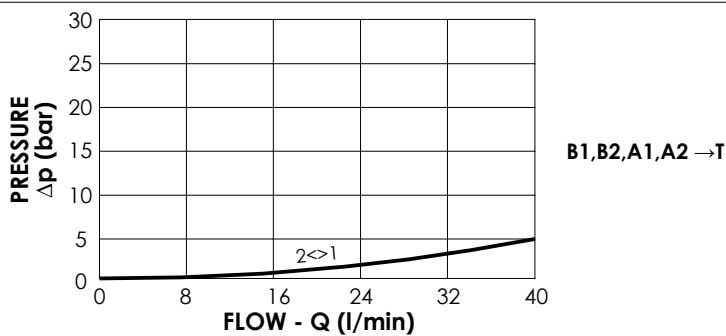
UNLOADING VALVE

**BNND-040-LE**



**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	1,1 kg
Coil:	M7



**NOTES**

See chapter 18.00.000 for coil.

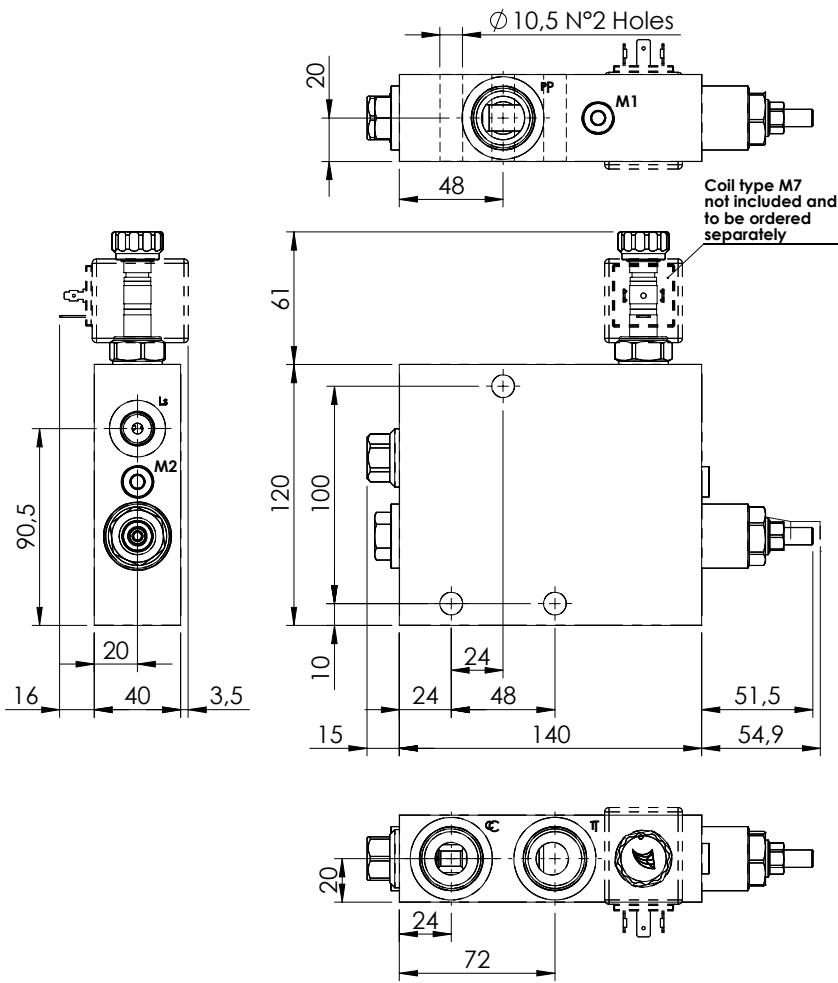
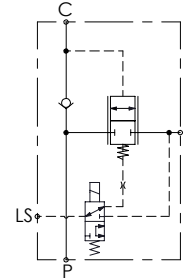
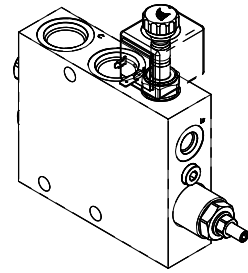
**ORDERING CODES**

Quick code	Description	Main ports size
BD000200	BNND-040-LE-NP-G12-N210	A1,A2,B1,B2: G1/2" T: G3/4"

**UNLOADING VALVE**

**MTTE-150-SLSN**

**PUMP UNLOADING  
PILOTED**

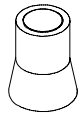


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	4,69 Kg
Coil:	M7

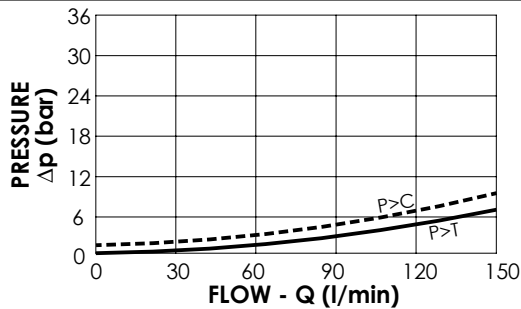
**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

See chapter 18.00.000 for coil.



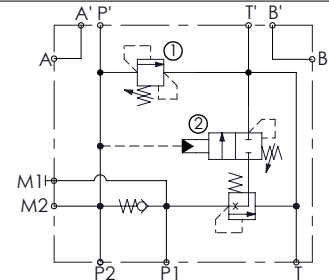
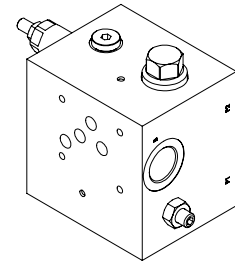
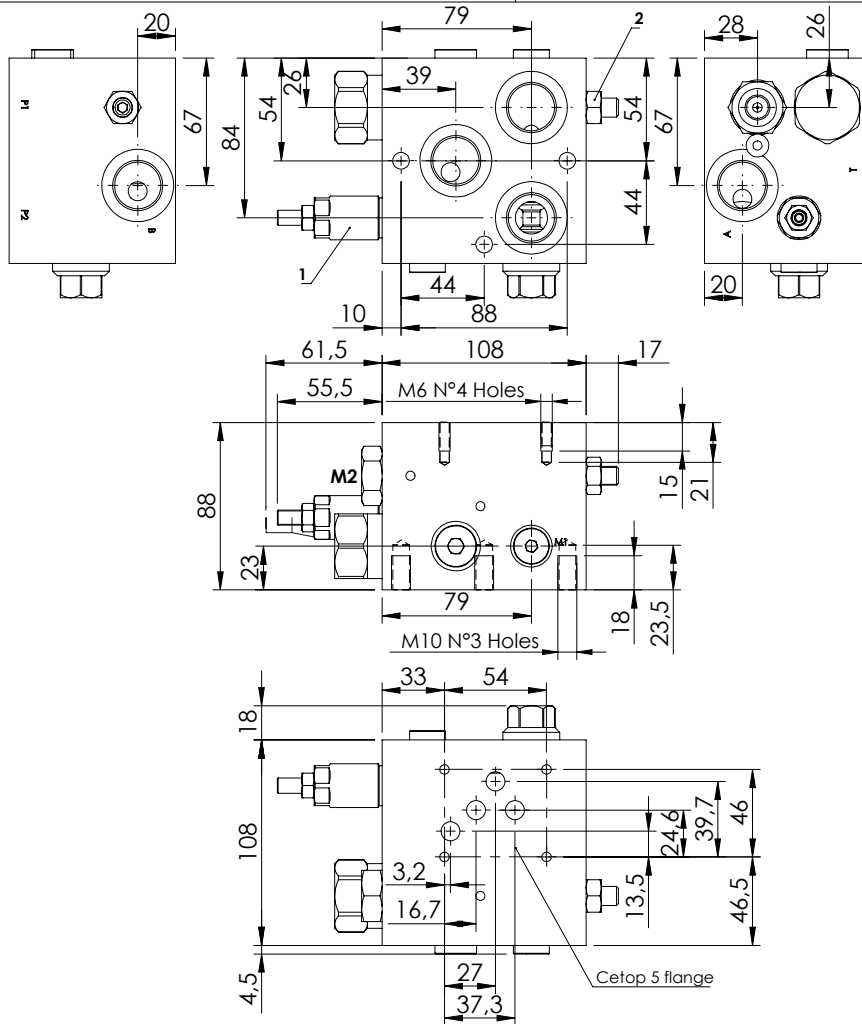
**ORDERING CODES**

Quick code	Description	Main ports size
MT000028	MTTE-150-SLSN-NP-U11-N350	P,C,T: 1 1/16" UNF-2B LS: 9/16" UNF-2B

UNLOADING VALVE

**MTSB-150-SDSN**

CETOP 5

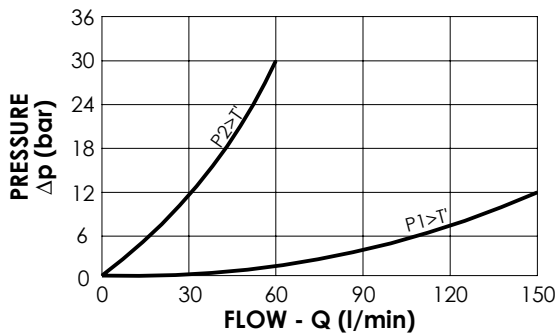
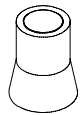


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	7,25 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

- P2 > P' : 50 l/min
- P1 > P' : 100 l/min
- Max flow ① : 30 l/min

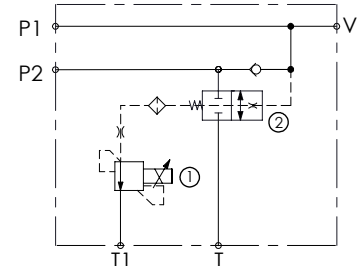
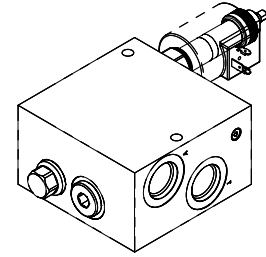
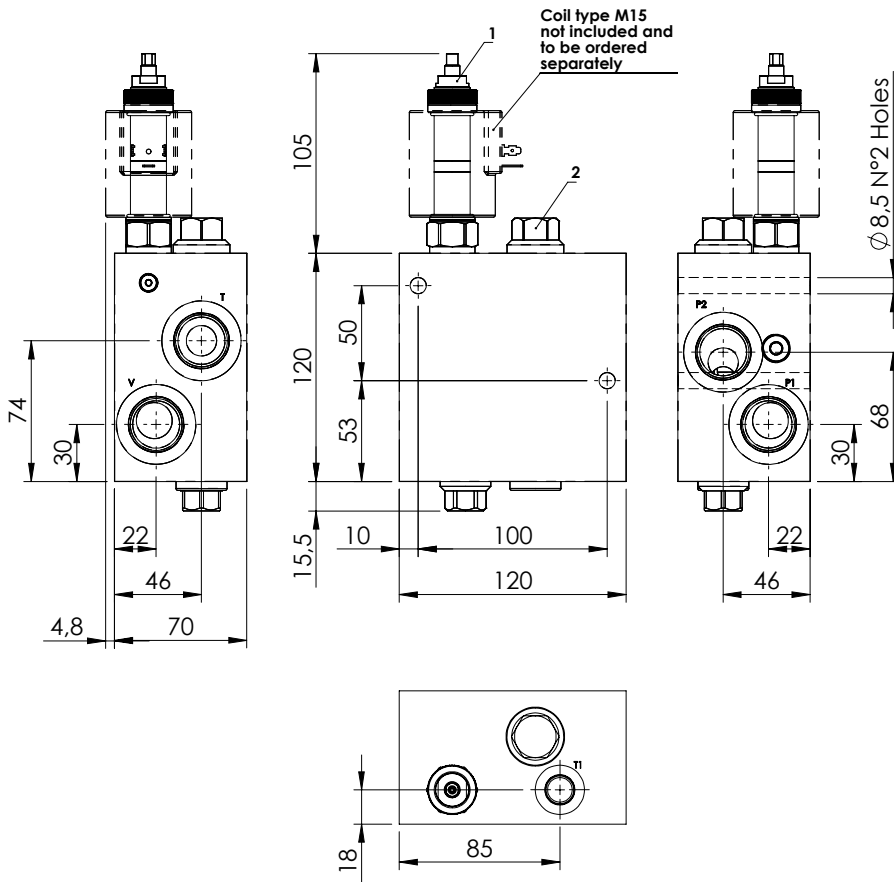
**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MT000029	MTSB-150-SDSN-NP-G34-N350	A,B,P1,P2,T: G3/4" A',B',P',T': Cetop 5 M1,M2: G1/4"	① 200 ② 50	① 50-210 ② 20-100	① 42 ② 23

**UNLOADING VALVE**

**MFTS-150-EFCE**

**SOLENOID OPERATED**

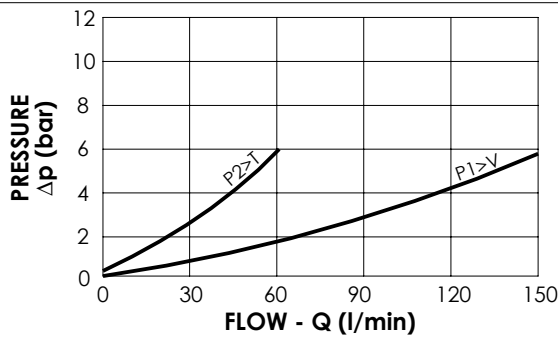


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Steel
Weight:	7,1 kg
Coil type:	M5

**NOTES**

-See chapter 18.00.000 for coil.

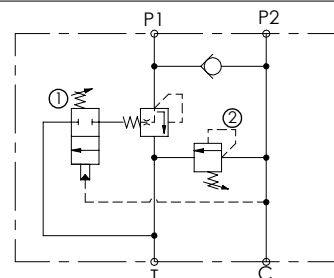
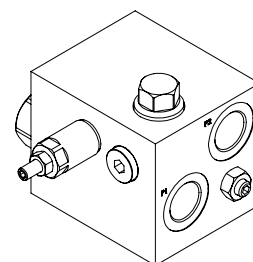
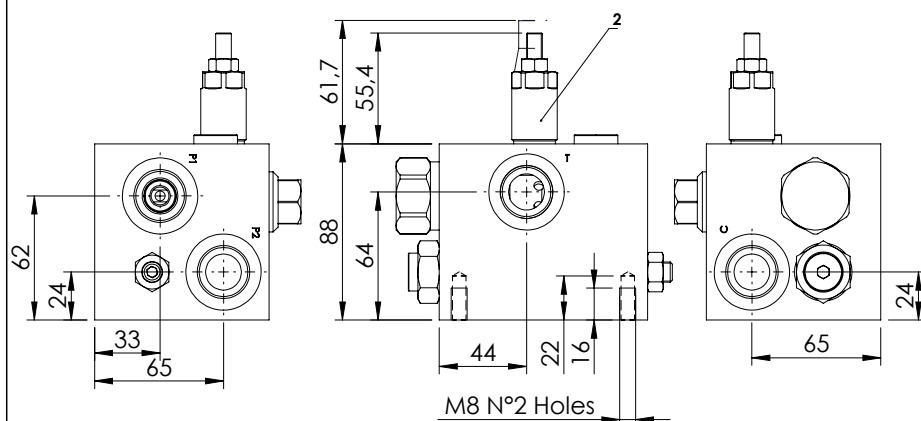
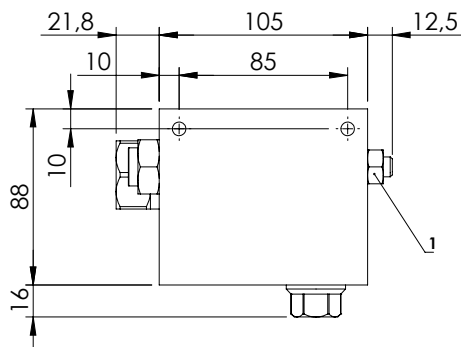


**ORDERING CODES**

Quick code	Description	Main Ports Size	Standard setting (bar)	Setting range (bar)
MF000345	MFTS-150-EFCE-NP-U11-N350	V,P1,P2,T:1" 1/16-12 UNF T1:9/16-18 UNF	30	30-350

UNLOADING VALVE

**MTSD-150-TLSN**

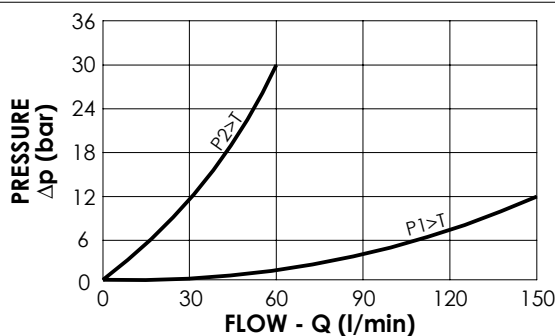
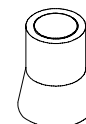


**SPECIFICATIONS**

Max. operating pressure:	300 bar
Rated flow:	150 l/min
Manifold:	See table
Weight:	Aluminium 2,54 kg; Steel 5,9 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

**ORDERING CODES**

Quick code	Description	Manifold material	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
MT000012	MTSD-150-TLSN-00-G34-N300	Aluminium	P1,P2,C,T: G3/4"	① 50 ② 300	① 15-100 ② 100-350	① 23 ② 91
MT000016	MTSD-150-SLSN-00-G34-N300	Steel	P1,P2,C,T: G3/4"	① 50 ② 300	① 15-100 ② 100-350	① 23 ② 91



**SECTION 14. 4**

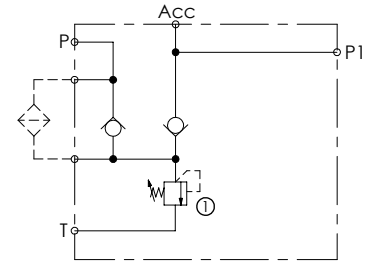
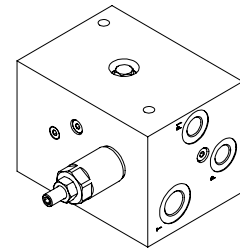
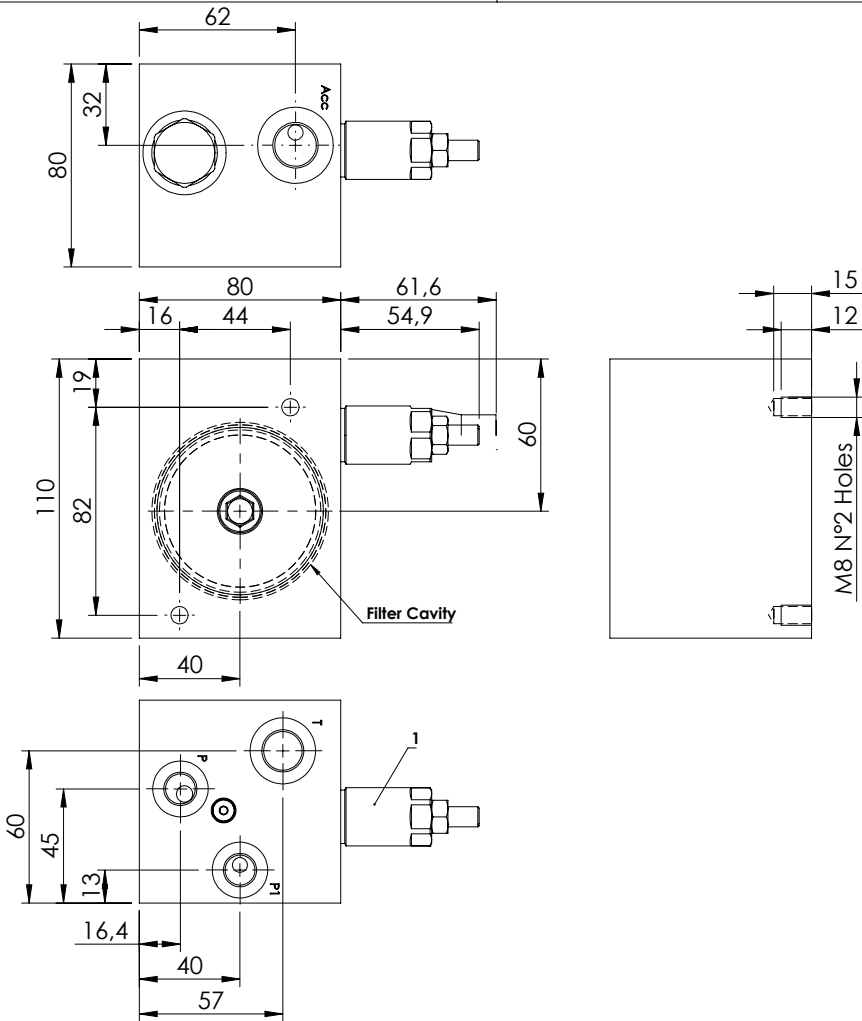
**SPECIAL VALVES - FILTER BLOCKS**



Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	BPNN-025-LLU		25	100	In line	G 1/4"	14.04.010
	BPNN-025-LLEU		25	100	In line	JIS 1/4"	14.04.020

**FILTER VALVE**

**BPNN-025-LLU**

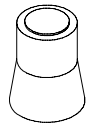


**SPECIFICATIONS**

Max. operating pressure:	100 bar
Rated flow:	25 l/min
Manifold:	Aluminium
Weight:	1,7 kg

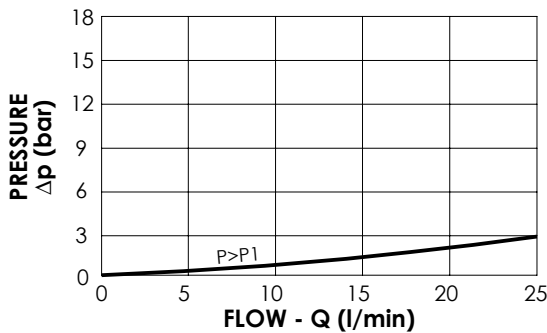
**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

-For filter cavity information or special version ask AFT sales network.

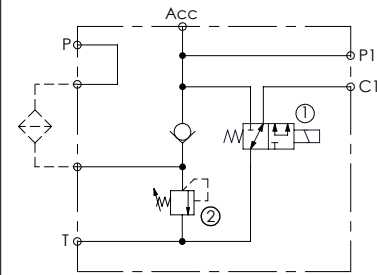
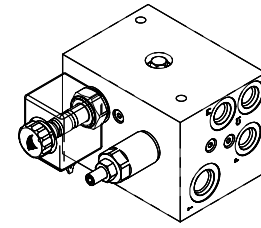
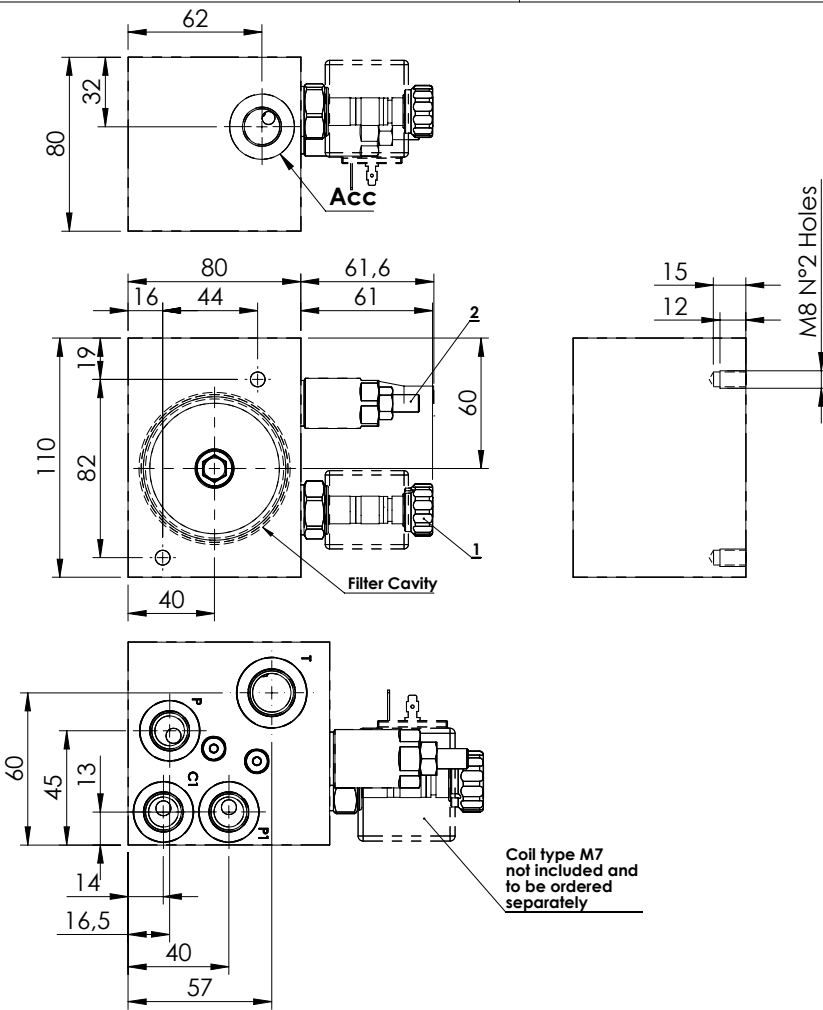


**ORDERING CODES**

Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
BP000109	BPNN-025-LLU-NP-G38-N100	P1,P: G 1/4" T: G 3/8" Acc: M18x1,5	25	10-50	10

**FILTER VALVES**

**BPNN-025-LLEU**

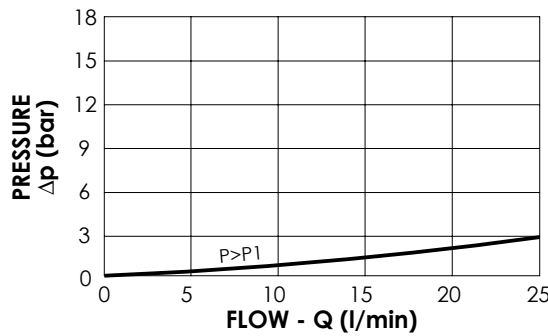
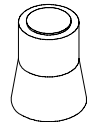


**SPECIFICATIONS**

Max. operating pressure:	100 bar
Rated flow:	25 l/min
Manifold:	Aluminium
Weight:	1,1 kg

**SEALING CAP**

Ordering code:  
AT000020



**NOTES**

- For filter cavity information or special version ask AFT sales network.
- See chapter 18.00.000 for coil.

**ORDERING CODES**

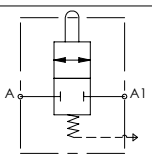
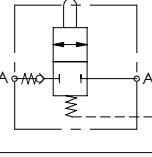
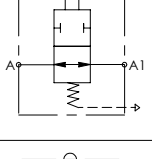
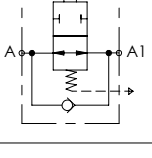
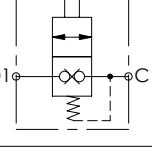
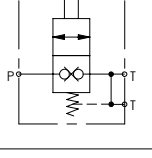
Quick code	Description	Main ports size	Standard setting (bar, Q=5 l/min)	Adjust. range (bar)	Pressure increase (bar/turn)
BP000108	BPNN-025-LLEU-NP-J38-N100	C1,P1,P:1/4" JIS T:3/8" JIS	25	10-50	10



**SECTION 14. 5**

**SPECIAL VALVES - END OF STROKE VALVES**

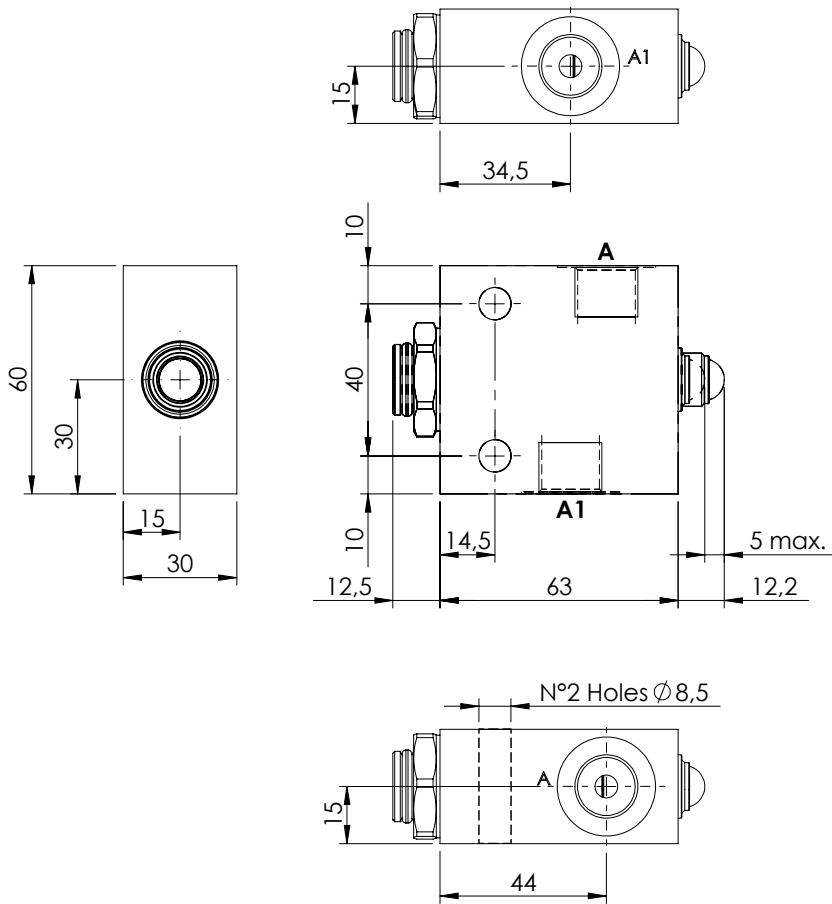
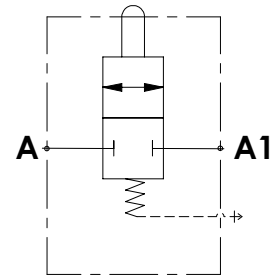
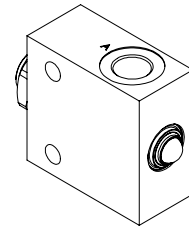


Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	MDTC-060-ABNR	End of stroke, normally open, compensated	60	350	In line	G 3/8"	14.05.010
	MDTA-100-AVNR	End of stroke, normally closed	100	350	In line	G 1/2"	14.05.020
	MDTA-060-ABNR	End of stroke, normally open, compensated	60	350	In line	G 3/8"	14.05.030
	MDTA-100-AVNR	End of stroke, normally open, compensated	100	350	In line	G 1/2"	14.05.040
	MDTC-030-ABNR	End of stroke, normally closed	30	350	In line	G 3/8"	14.05.050
	MDTC-080-ABNR	End of stroke, normally closed	80	350	In line	G 3/8"	14.07.060

END OF STROKE VALVE

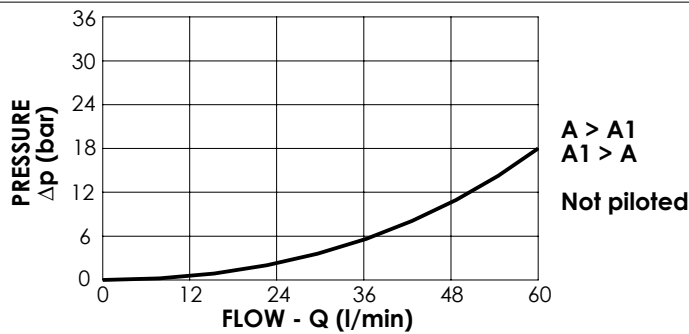
**MDTC-060-ABNR**

**NORMALLY CLOSED  
COMPENSATED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	0,82 kg
Maximum stroke:	5 mm
Max. leakage at 150 bar when fully closed:	200 cc/min



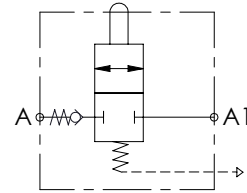
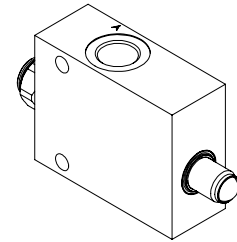
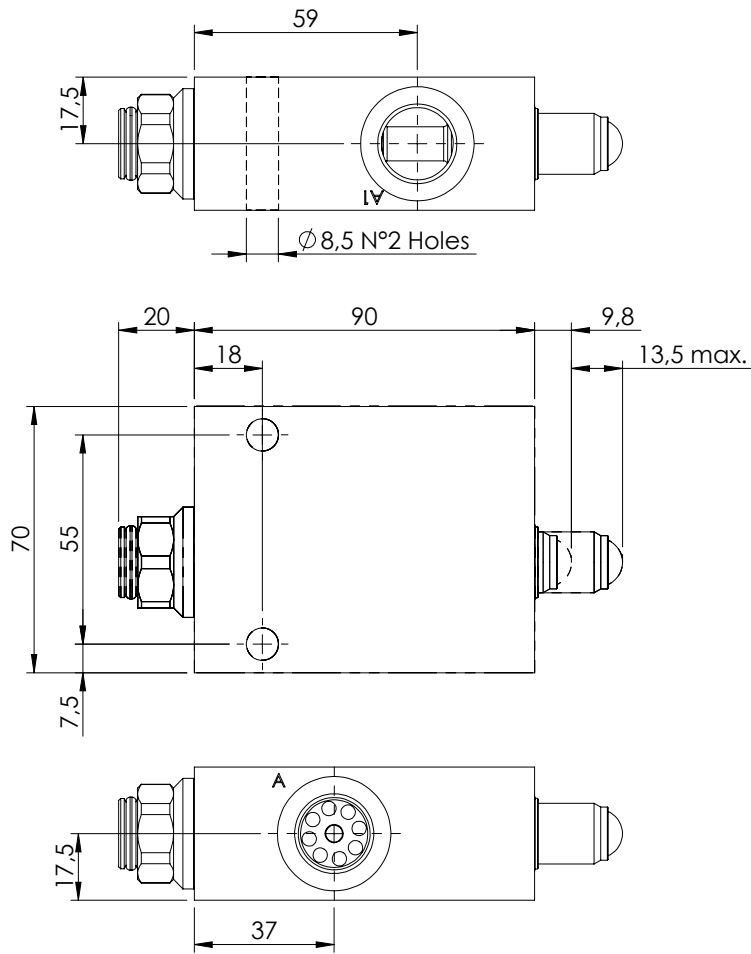
**ORDERING CODES**

Quick code	Description	Main ports size	Cracking pressure (Kg)	Fully open (Kg)
MD000090	MDTC-060-ABNR-NP-G38-N350	G 3/8"	4	13

END OF STROKE VALVE

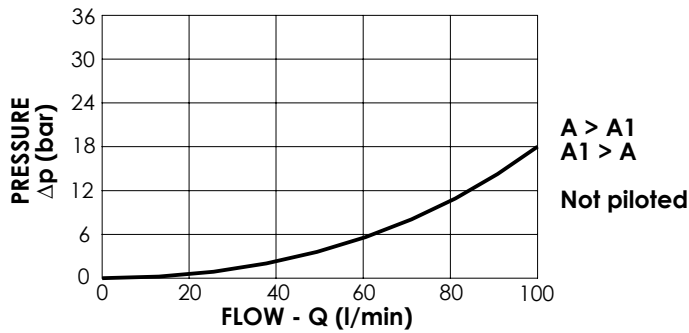
**MDTC-100-AVNR**

**NORMALLY CLOSED  
AIR VENTED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Manifold:	Steel
Weight:	1,57 kg
Maximum stroke:	13,5 mm



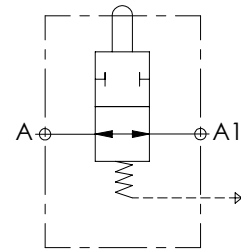
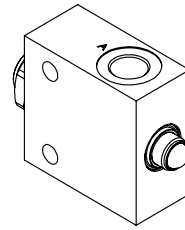
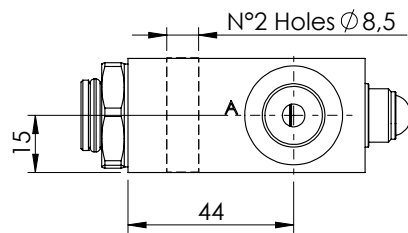
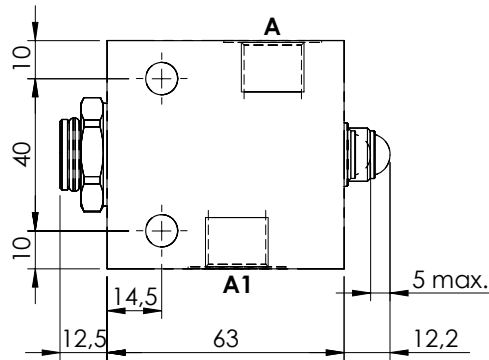
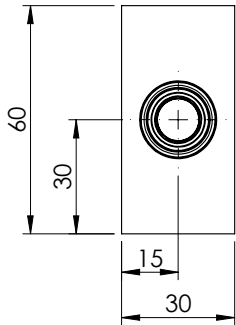
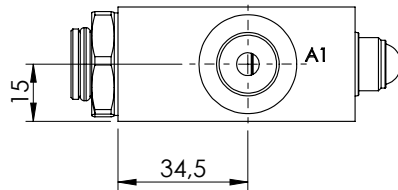
**ORDERING CODES**

Quick code	Description	Main ports size	Cracking pressure (Kg)	Fully open (Kg)
MD000091	MDTC-100-AVNR-NP-G12-N350	G 1/2"	5,3	14

END OF STROKE VALVE

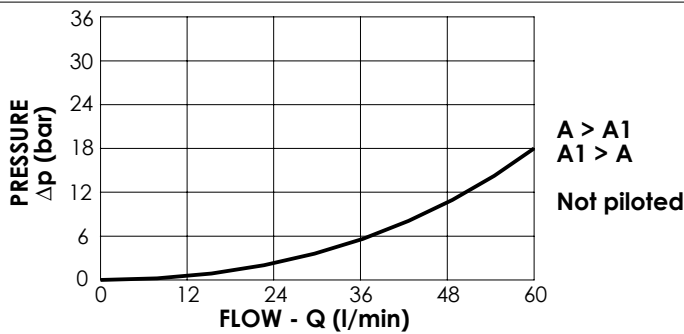
**MDTA-060-ABNR**

**NORMALLY OPEN  
COMPENSATED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	60 l/min
Manifold:	Steel
Weight:	0,82 kg
Maximum stroke:	5 mm
Max. leakage at 150 bar when fully closed:	200 cc/min



**ORDERING CODES**

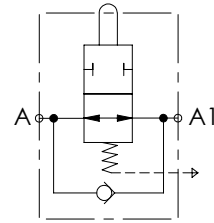
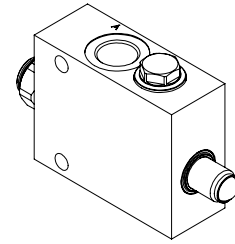
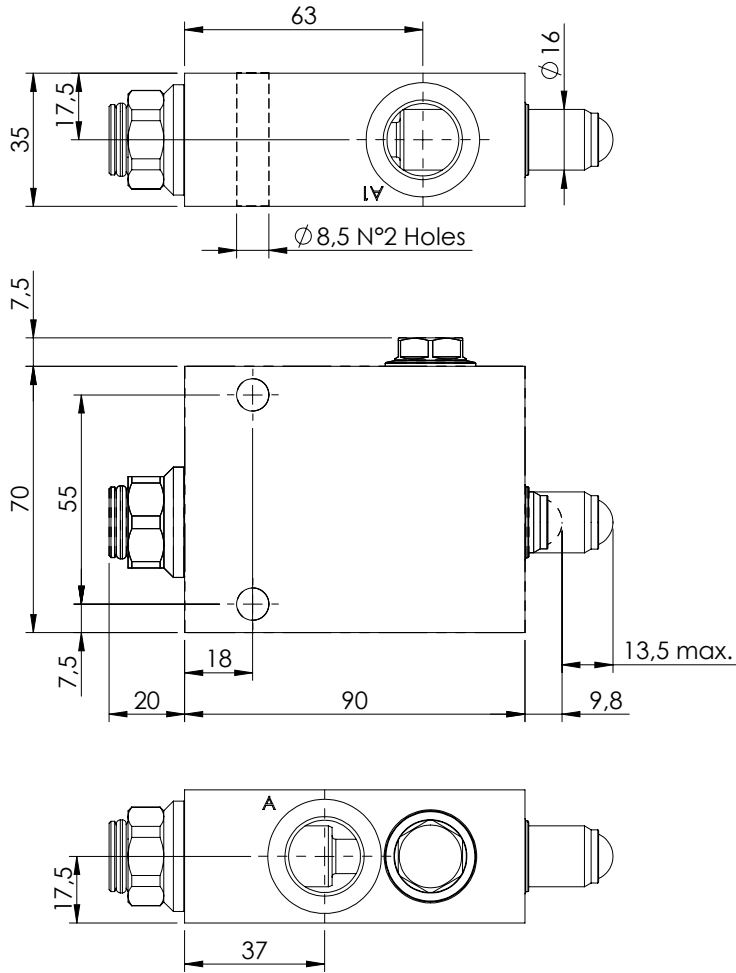
Quick code	Description	Main ports size	Cracking pressure (Kg)	Fully closed (Kg)
MD000043	MDTA-060-ABNR-NP-G38-N350	G 3/8"	4	13



END OF STROKE VALVE

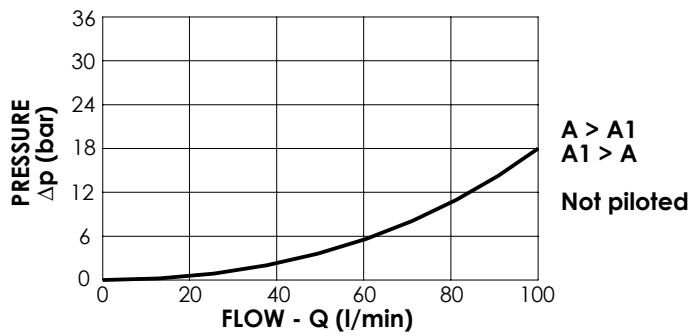
**MDTA-100-AVNR**

**NORMALLY OPEN  
AIR VENTED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Manifold:	Steel
Weight:	1,54 kg
Maximum stroke:	13,5 mm



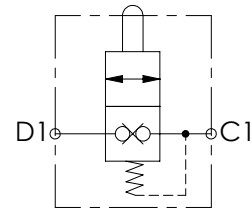
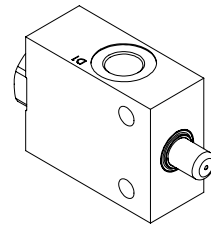
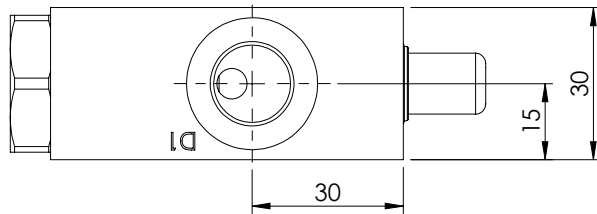
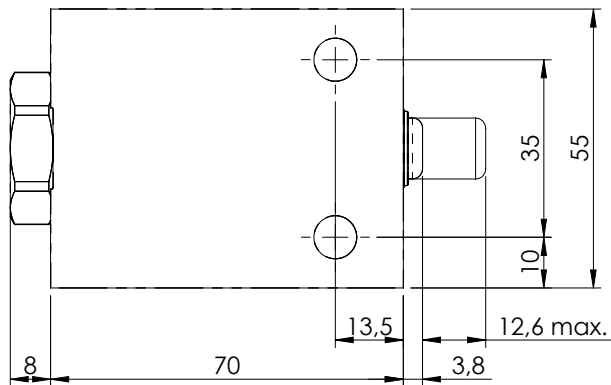
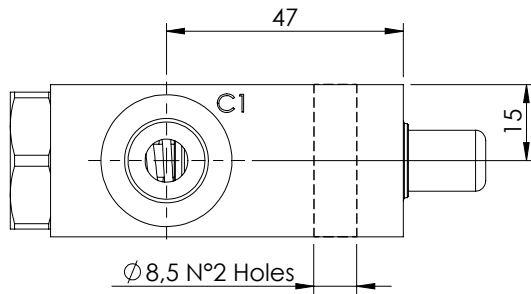
**ORDERING CODES**

Quick code	Description	Main ports size	Cracking pressure (Kg)	Fully closed (Kg)
MD000032	MDTA-100-AVNR-NP-G12-N350	G 1/2"	5,3	14

END OF STROKE VALVE

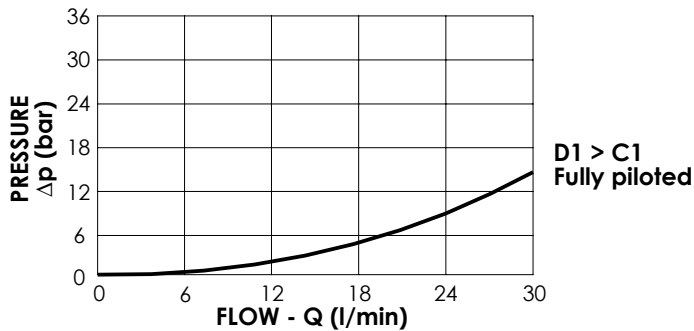
**MDTC-030-ABNR**

NORMALLY CLOSED



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Manifold:	Steel
Weight:	0,78 kg
Maximum stroke:	12,6 mm



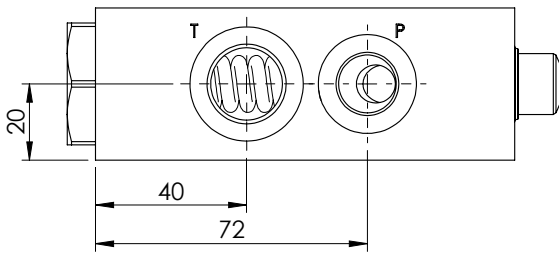
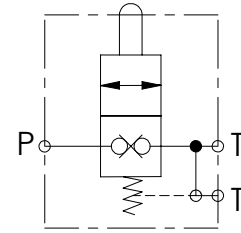
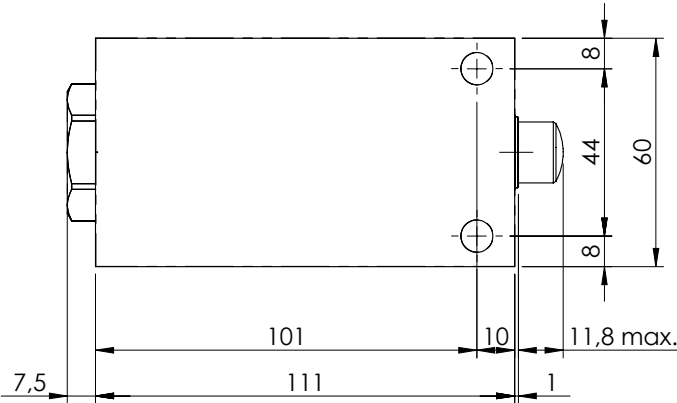
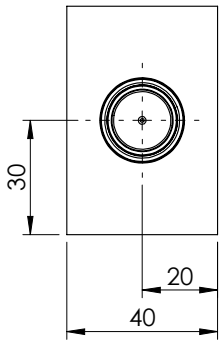
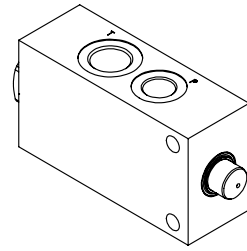
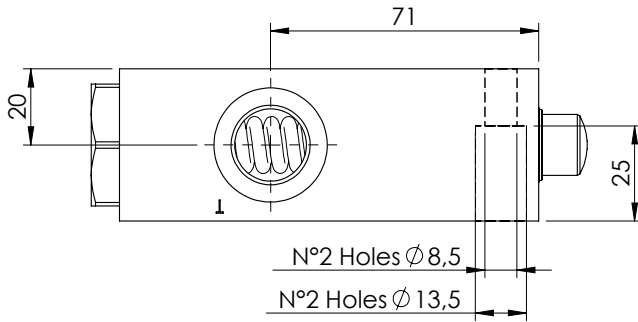
**ORDERING CODES**

Quick code	Description	Main ports size	Cracking pressure (Kg)	Fully open (Kg)
MD000064	MDTC-030-ABNR-NP-G38-N350	G 3/8"	9	19,7

END OF STROKE VALVE

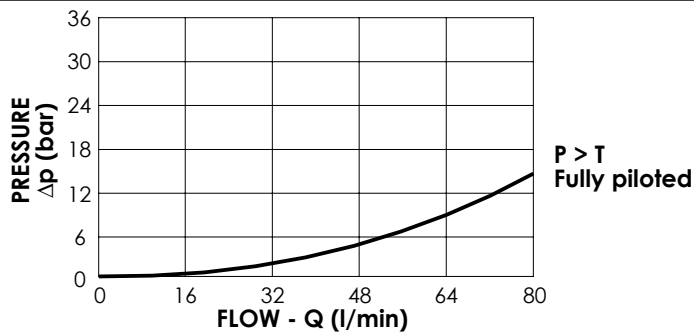
**MDTC-080-ABNR**

**NORMALLY CLOSED**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	80 l/min
Manifold:	Steel
Weight:	1,71 kg
Maximum stroke:	11,8 mm



**ORDERING CODES**

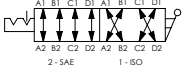
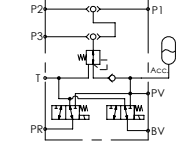
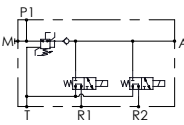
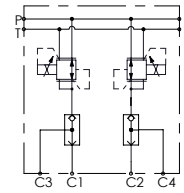
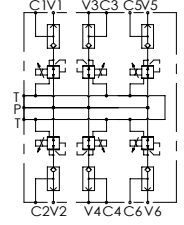
Quick code	Description	Main ports size	Cracking pressure (Kg)	Fully open (Kg)
MD000044	MDTC-080-ABNR-NP-G38-N350	P: G 3/8" T: G 1/2"	36	119



**SECTION 14. 6**

**SPECIAL VALVES - PILOT BLOCKS**



Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	BNND-015-AER	ISO-SAE, Changeover valve	15	210/350	In line	G 1/2"	14.06.010
	MDRD-020-SLN	Pilot manifold	20	50	In line	G 1/4"	14.06.020
	BNND-010-LRE	Joystick safety stop	10	210	In line	G 3/8"	14.06.030
	BNND-003-LNQ-02	Proportional pressure reducing, pilot manifold	3	50	In line	G 1/4"	14.06.040
	BNND-003-LNQ-06	Proportional pressure reducing, pilot manifold	3	50	In line	G 1/4"	14.06.050
	BNND-003-LNQ-08	Proportional pressure reducing, pilot manifold	3	50	In line	G 1/4"	14.06.060
	BNND-003-LNQ-14	Proportional pressure reducing, pilot manifold	3	50	In line	G 1/4"	14.06.070