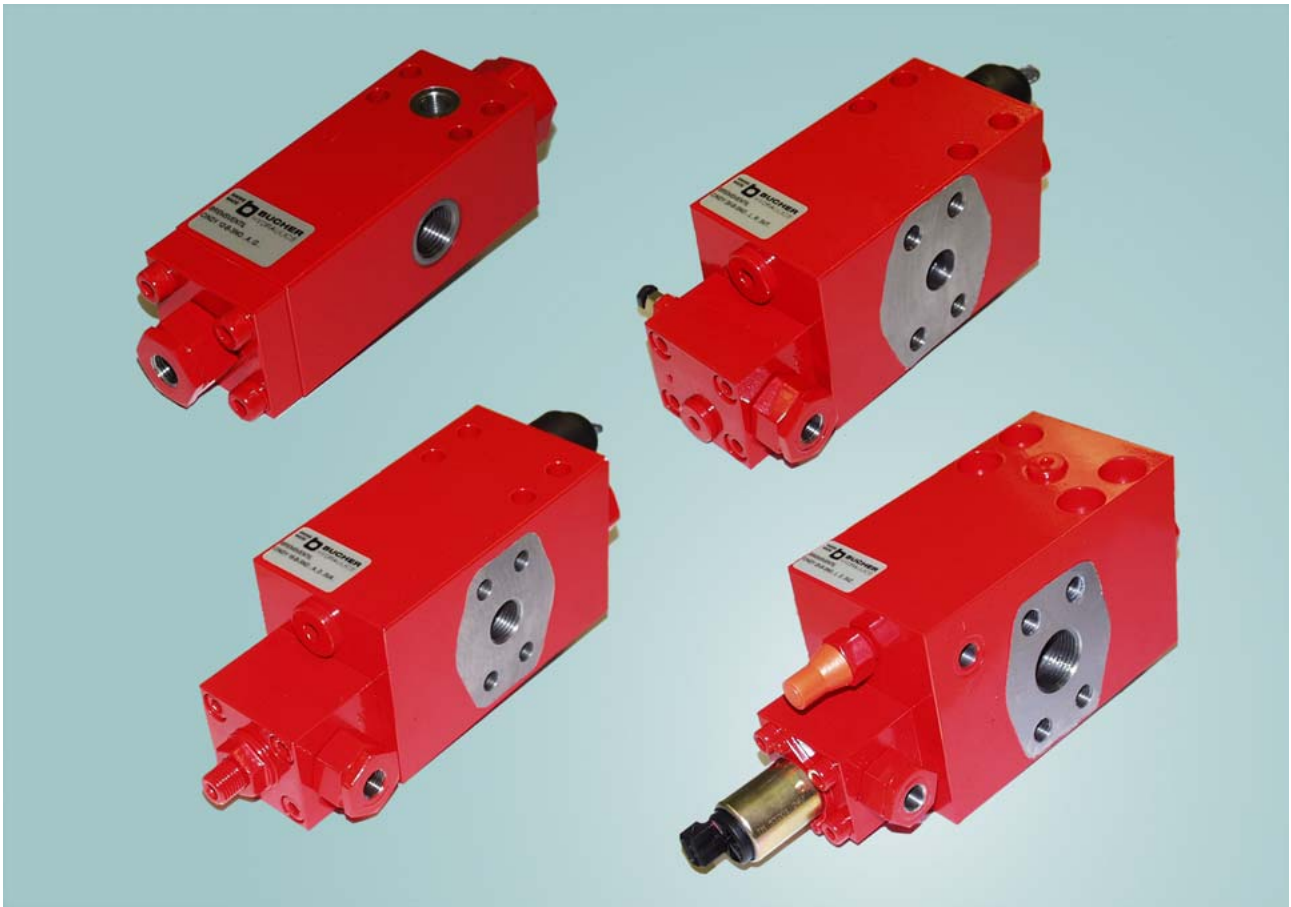


Safety for Hydraulics

Load Control Valve, series Cindy Standard



motion and progress

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1. Selection table for type S, serie Cindy B

X = standard catalogue valves

Flow rate [l/min.]	Port B SAE 6000 psi	Port A SAE 6000 psi or pipe thread G...	Option: port B with pipe-threaded flange (see General Information Leaflet, section 11.2)	Option: port A with pipe-threaded flange (see General Information Leaflet, section 11.1)	With secondary pressure relief valve (see General Information Leaflet, section 10.)	With thermal expansion only (see General Information Leaflet, section 10.3)	Over-compensation is possible	Pilot pressure depending of back-pressure	Pilot-pressure independent of back-pressure	Catalogue data sheet / page nos.
Cindy 12-B-S to 150 [l/min.]	SAE 1/2"	G 1/2"	G 1/2"					X		sect. 2., p. 4
									X	sect. 3., p. 8
					in return line			X		sect. 4., p. 12
					in return line				X	sect. 5., p. 16
					in tank line				X	sect. 6., p. 20
						in return line		X		sect. 7., p. 24
Cindy 16-B-S to 250 [l/min.]	SAE 3/4"	SAE 3/4"	G 3/4"	G 3/4"					X	sect. 8., p. 28
								X		sect. 9., p. 32
									X	sect. 10., p. 36
					in return line			X		sect. 11., p. 40
					in return line				X	sect. 12., p. 44
					in tank line				X	sect. 13., p. 48
						in return line		X		sect. 14., p. 52
						in drain line			X	sect. 15., p. 56
							X		X	sect. 16., p. 60
					in return line		X		X	sect. 17., p. 64
Cindy 20-B-S to 350 [l/min.]	SAE 1"	SAE 1"	G 1"	G 1"	in tank line		X		X	sect. 18., p. 68
						in drain line	X		X	sect. 19., p. 72
								X		sect. 20., p. 76
									X	sect. 21., p. 80
					in return line			X		sect. 22., p. 84
					in return line				X	sect. 23., p. 88
					in tank line				X	sect. 24., p. 92
						in return line		X		sect. 25., p. 96
						in drain line			X	sect. 26., p. 100
							X		X	sect. 27., p. 104
Cindy 25-B-S to 500 [l/min.]	SAE 1 1/4"	SAE 1 1/4"	G 1 1/4"	G 1 1/4"	in return line		X		X	sect. 28., p. 108
					in tank line		X		X	sect. 29., p. 112
						in drain line	X		X	sect. 30., p. 116
								X		sect. 31., p. 120
									X	sect. 32., p. 124
					in return line			X		sect. 33., p. 128
					in return line				X	sect. 34., p. 132
					in tank line				X	sect. 35., p. 136
						in return line		X		sect. 36., p. 140
						in drain line			X	sect. 37., p. 144
							X		X	sect. 38., p. 148
					in return line		X		X	sect. 39., p. 152
					in tank line		X		X	sect. 40., p. 156
						in drain line	X		X	sect. 41., p. 160

2. Description Cindy-12-B-S-.....-A-.....

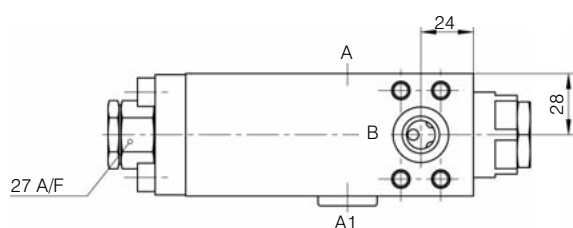
2.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	G 1/2"	-
B	SAE 1/2" 6000 psi	3.53x18.66
X, MB	G 1/4"	-

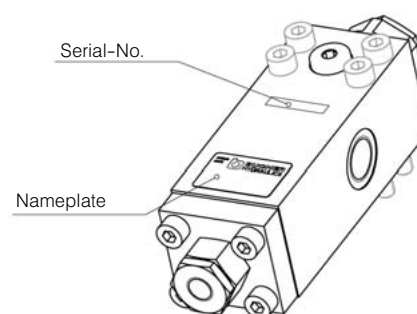
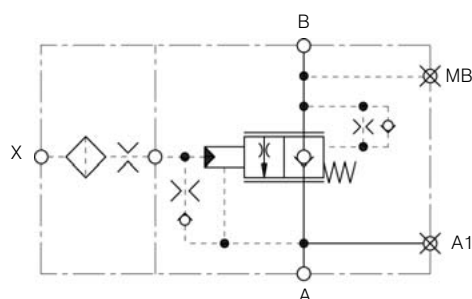
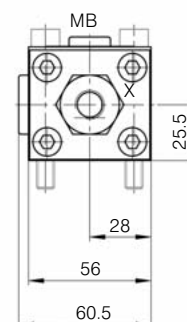
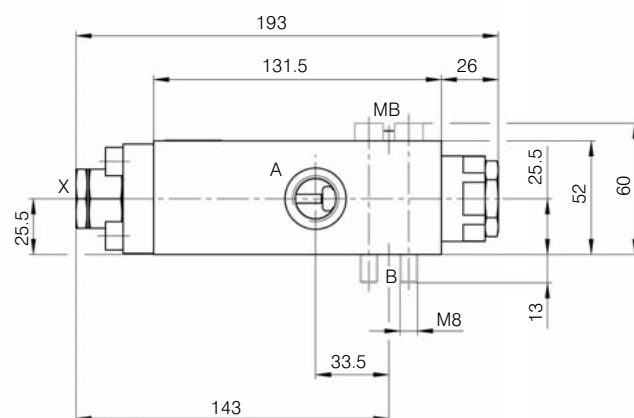
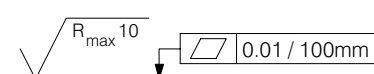
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 3.9 kg

2.2 Standard model

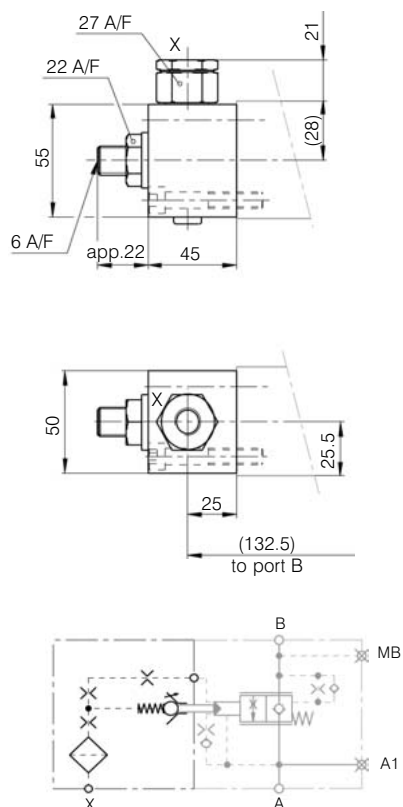


Required quality of the mating surface:

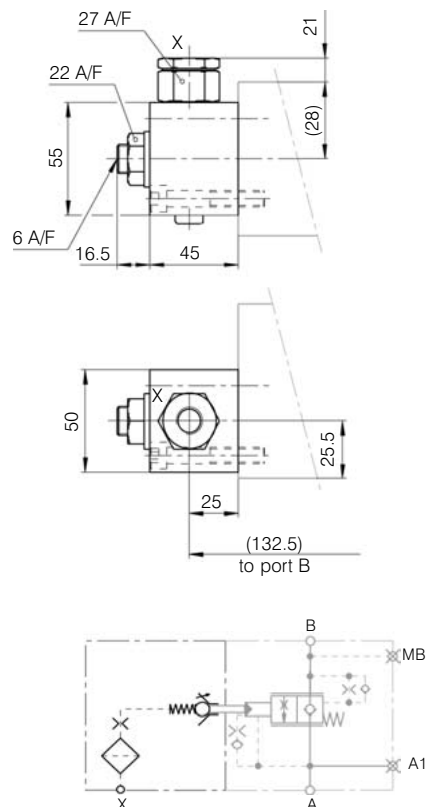


2.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

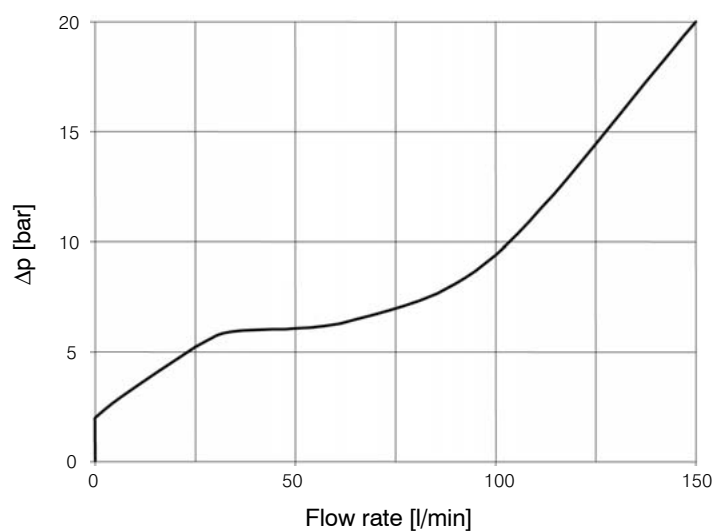


Pilot-control with the "hydro-mechanical stroke limiter" (H)

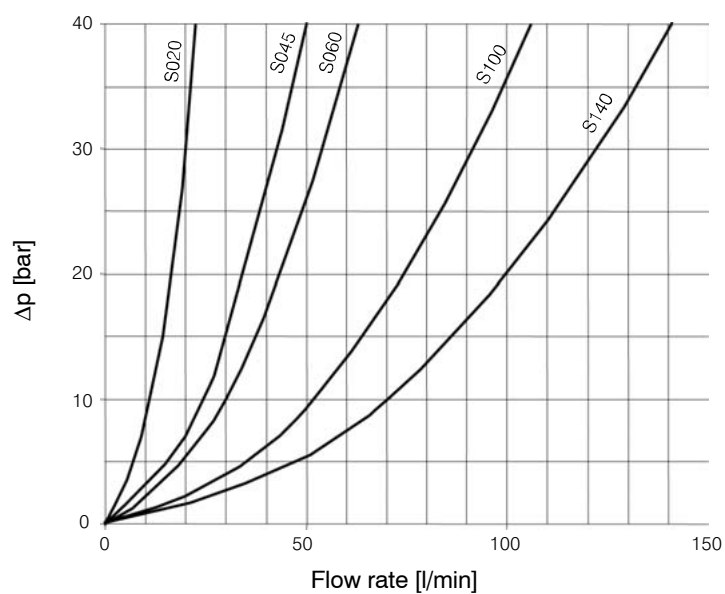


2.4 Characteristic curves (measured at 33 mm²/s [cSt])

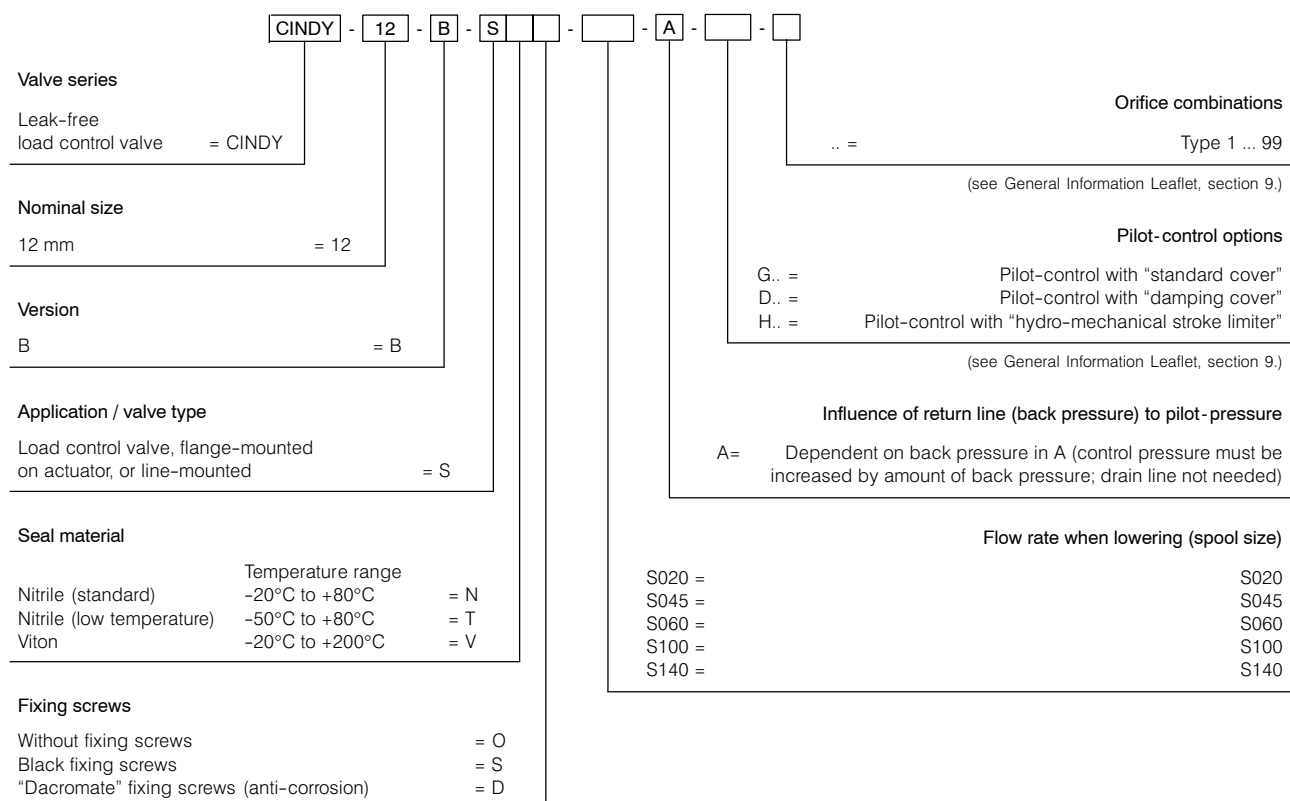
2.4.1 Δp from A $\rightarrow$ B (Lifting)



2.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



2.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010521.....	300 6010528.....	300 6010535.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-S-N-1-G 300.0306842	Service packages Cindy 12-B-S-V-1-G 300.0306900	Service packages Cindy 12-B-S-T-1-G 300.0306906
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-S-N-1-D 300.0306843	Service packages Cindy 12-B-S-V-1-D 300.0306901	Service packages Cindy 12-B-S-T-1-D 300.0306907

3. Description Cindy-12-B-S-.....-L-....-

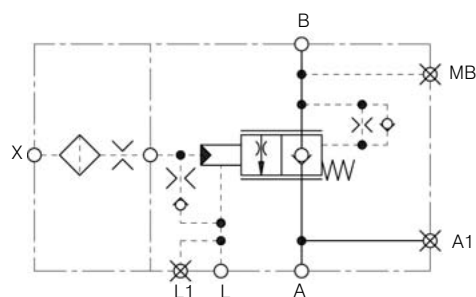
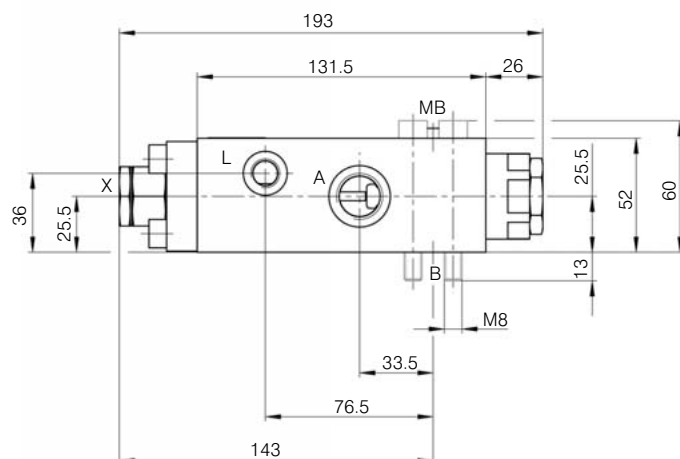
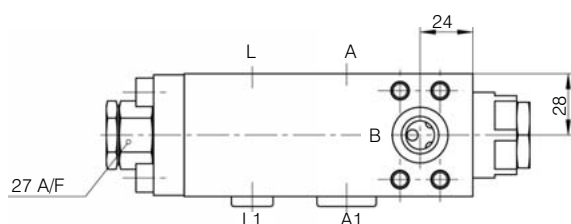
3.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	G 1/2"	-
B	SAE 1/2" 6000 psi	3.53x18.66
X, L, L1, MB	G 1/4"	-

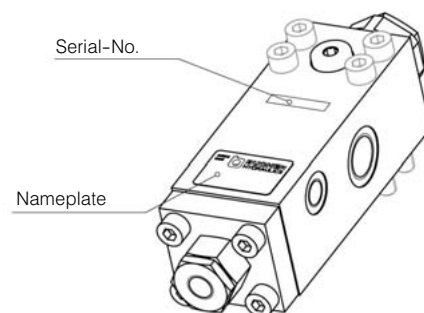
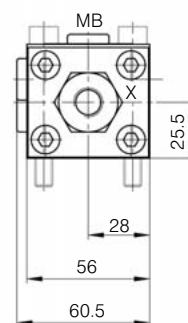
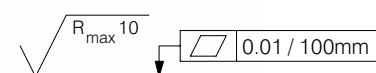
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 3.9 kg

3.2 Standard model

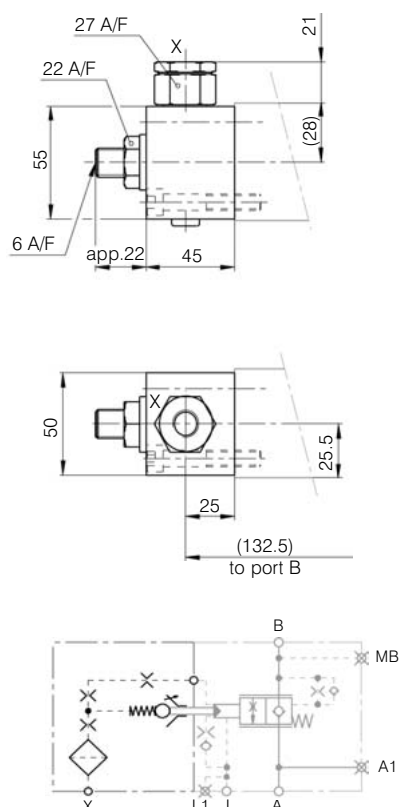


Required quality of the mating surface:

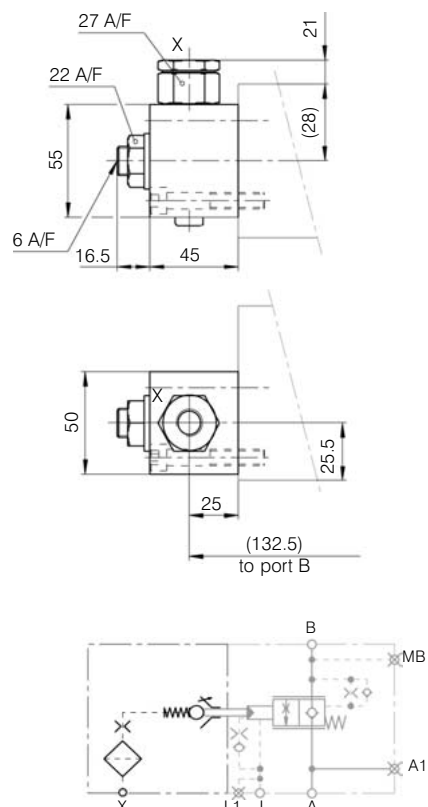


3.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

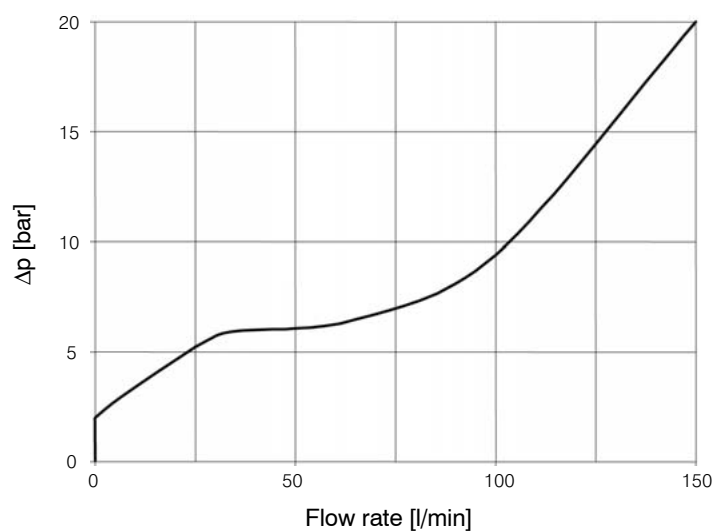


Pilot-control with the "hydro-mechanical stroke limiter" (H)

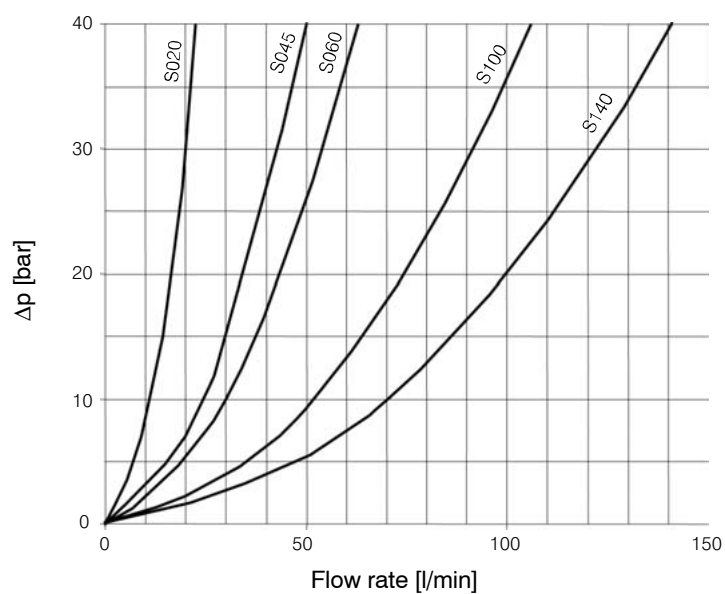


3.4 Characteristic curves (measured at 33 mm²/s [cSt])

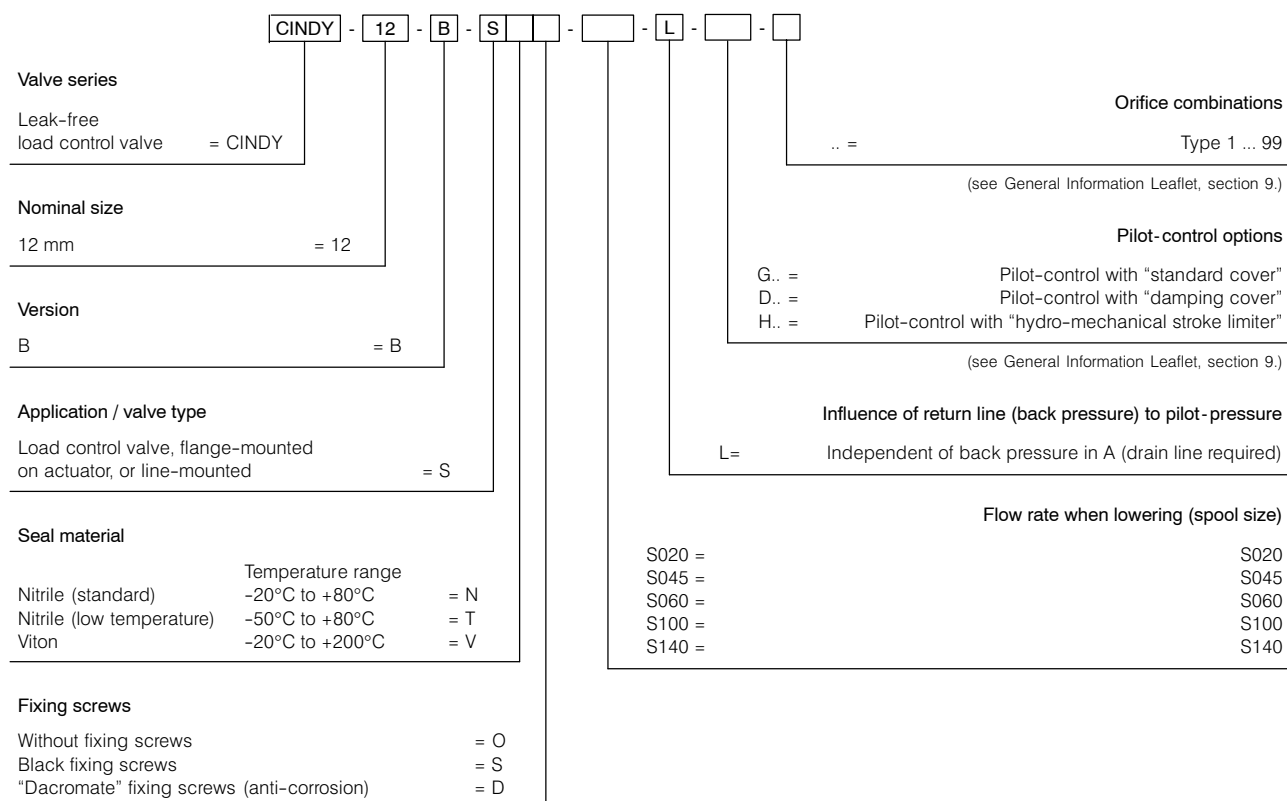
3.4.1 Δp from A $\rightarrow$ B (Lifting)



3.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



3.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010522.....	300 6010529.....	300 6010536.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-S-N-1-G 300.0306842	Service packages Cindy 12-B-S-V-1-G 300.0306900	Service packages Cindy 12-B-S-T-1-G 300.0306906
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-S-N-1-D 300.0306843	Service packages Cindy 12-B-S-V-1-D 300.0306901	Service packages Cindy 12-B-S-T-1-D 300.0306907

4. Description Cindy-12-B-S...-....-A-....-SVA

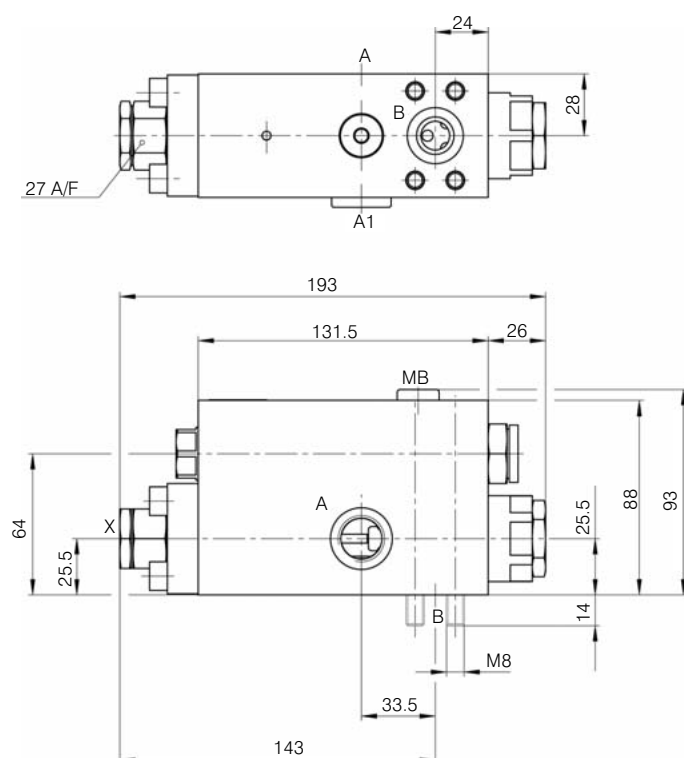
4.1 Port sizes / weight

Port	Port size	O - Ring
A, A1	G 1/2"	-
B	SAE 1/2" 6000 psi	3.53x18.66
X, MB	G 1/4"	-

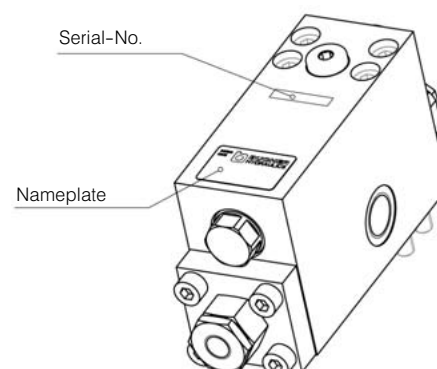
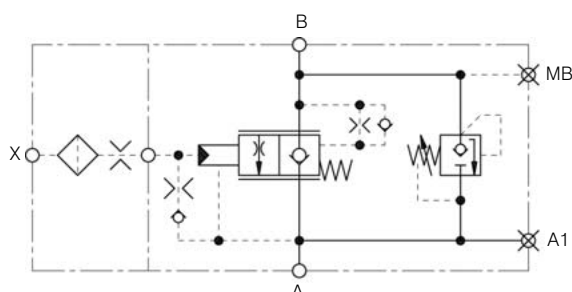
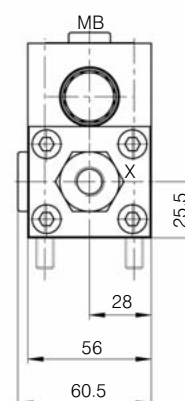
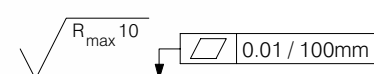
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 5.7 kg

4.2 Standard model

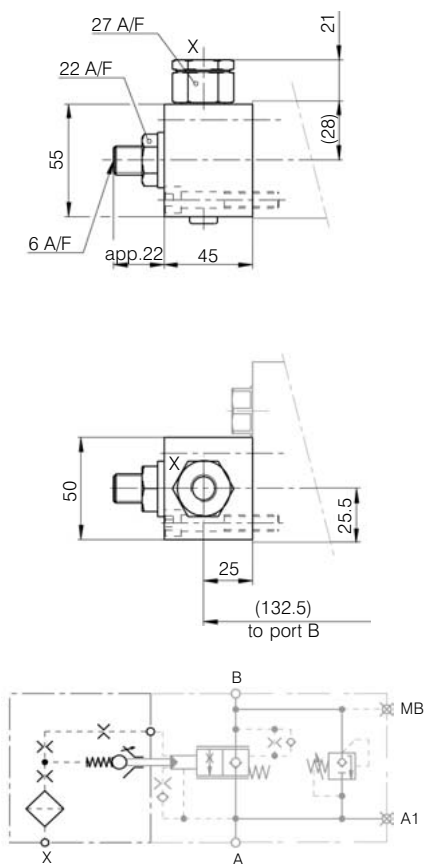


Required quality of the mating surface:

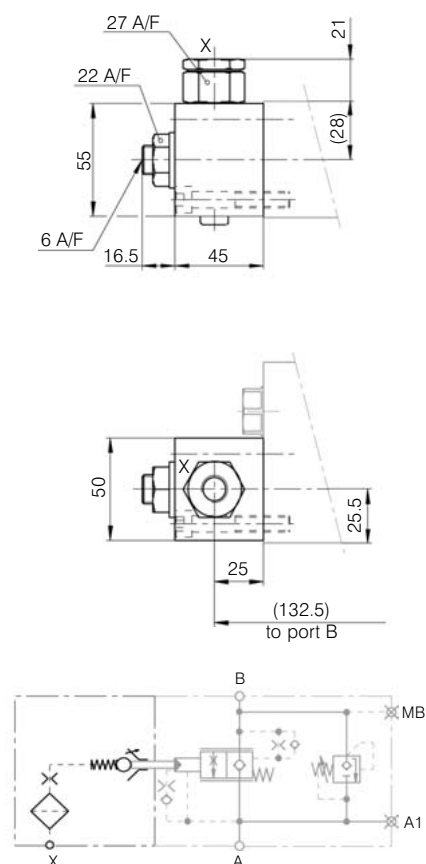


4.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

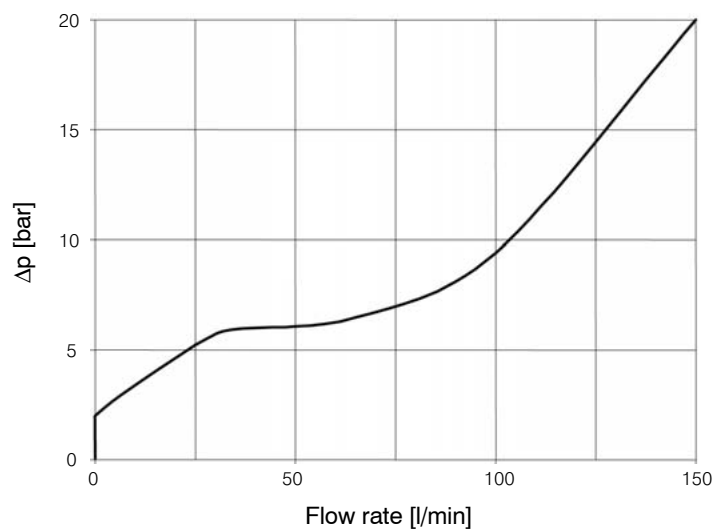


Pilot-control with the "hydro-mechanical stroke limiter" (H)

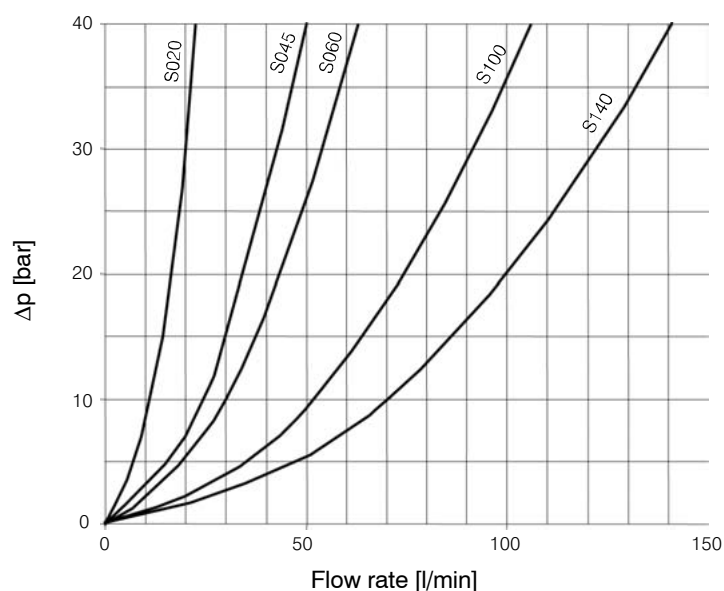


4.4 Characteristic curves (measured at 33 mm²/s [cSt])

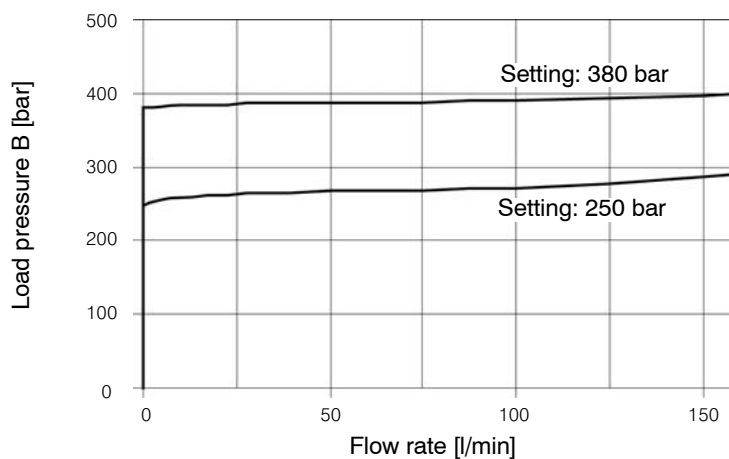
4.4.1 Δp from A $\rightarrow$ B (Lifting)



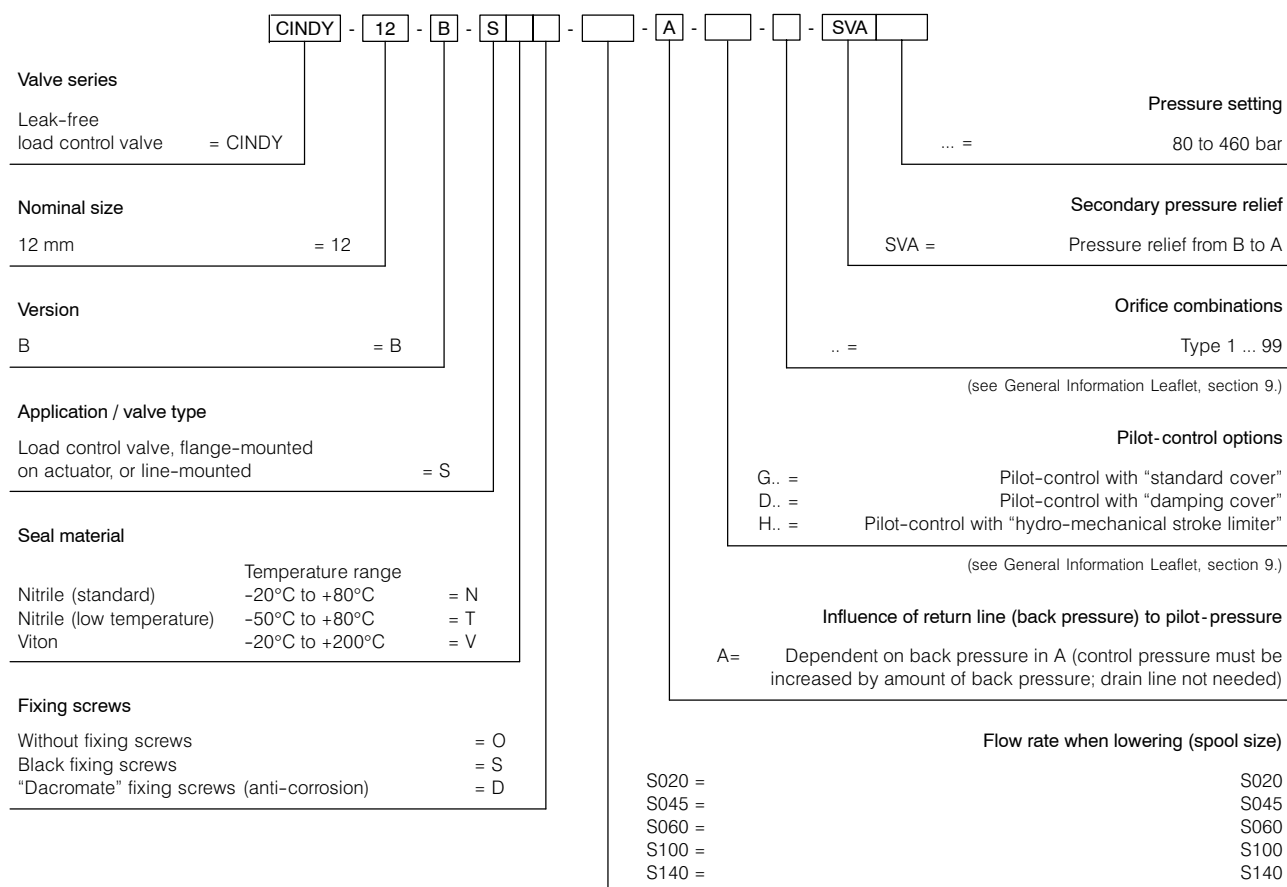
4.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



4.4.3 Opening characteristic of the secondary pressure relief valve



4.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP
Art. No. for basic valve (without specific features)	300 6010523.....	300 6010530.....	300 6010537.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-S-N-2-G 300.0306844	Service packages Cindy 12-B-S-V-2-G 300.0306902	Service packages Cindy 12-B-S-T-2-G 300.0306908
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-S-N-2-D 300.0306845	Service packages Cindy 12-B-S-V-2-D 300.0306903	Service packages Cindy 12-B-S-T-2-D 300.0306909

5. Description Cindy-12-B-S-.....-L-.....-SVA

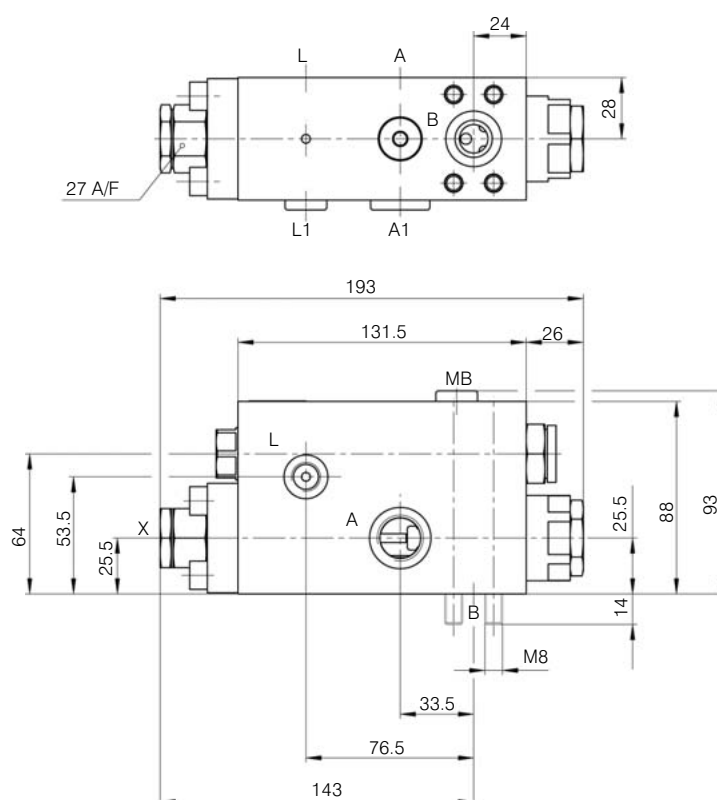
5.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	G 1/2"	-
B	SAE 1/2" 6000 psi	3.53x18.66
X, L, L1, MB	G 1/4"	-

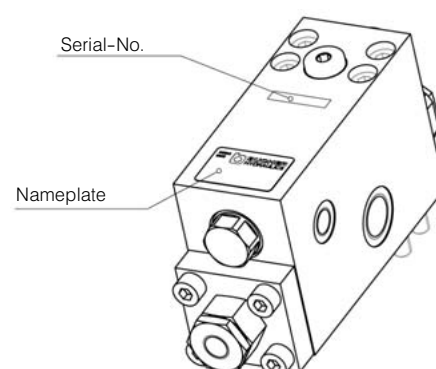
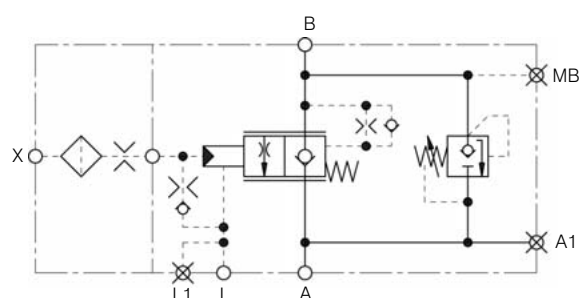
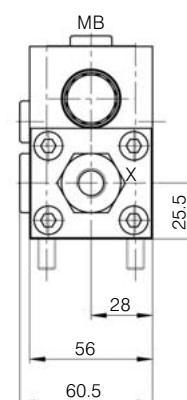
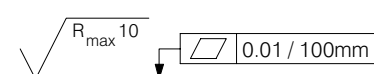
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 5.7 kg

5.2 Standard model

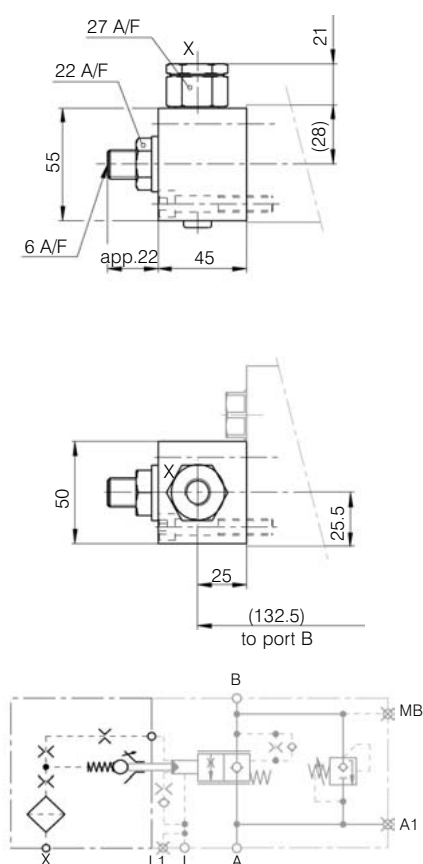


Required quality of the mating surface:

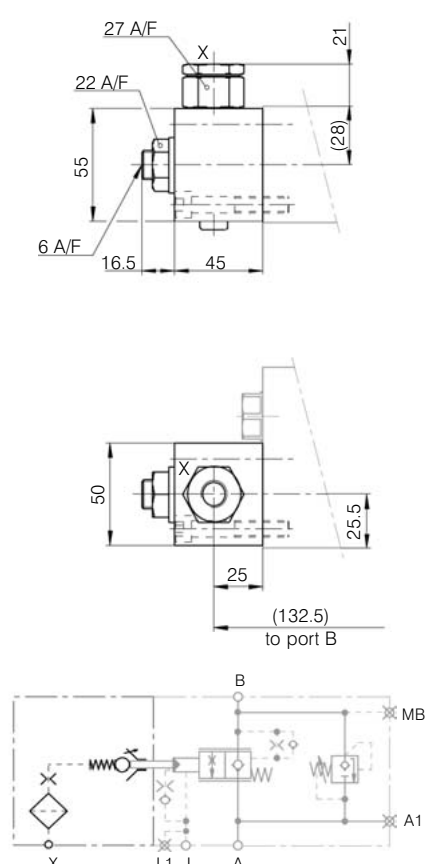


5.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

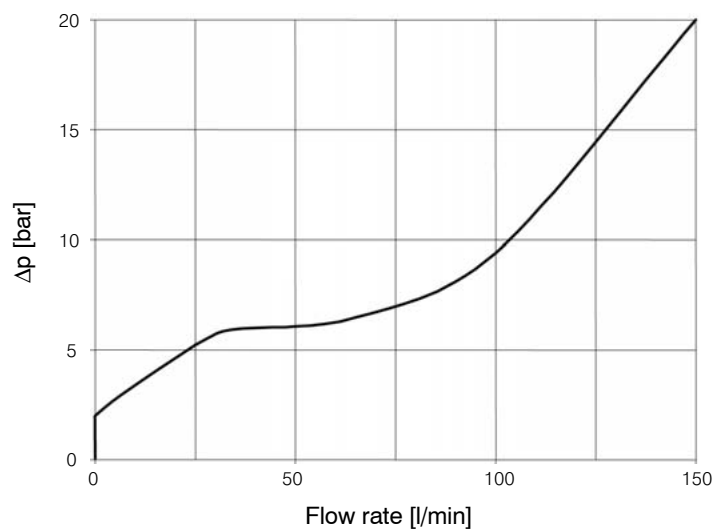


Pilot-control with the "hydro-mechanical stroke limiter" (H)

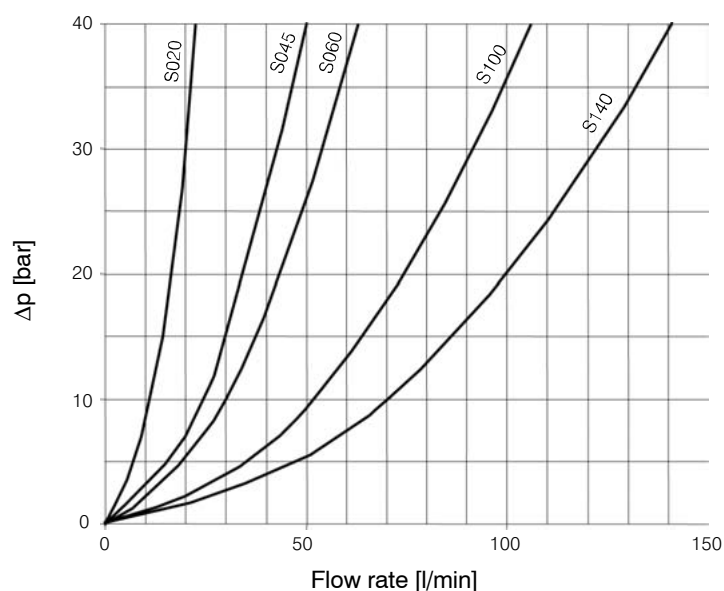


5.4 Characteristic curves (measured at 33 mm²/s [cSt])

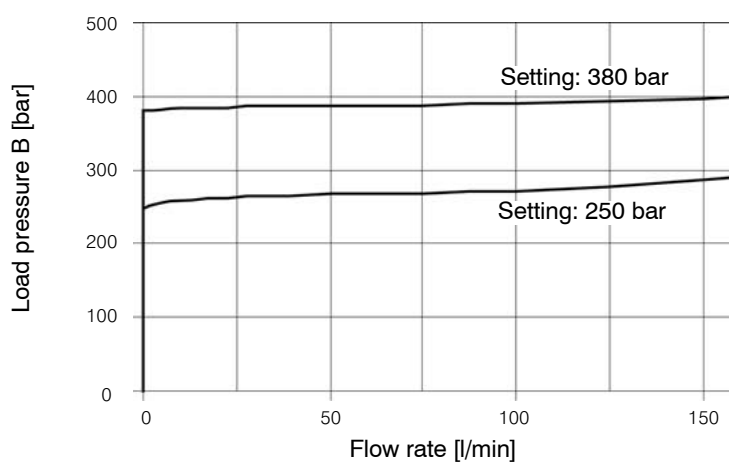
5.4.1 Δp from A $\rightarrow$ B (Lifting)



5.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



5.4.3 Opening characteristic of the secondary pressure relief valve



5.5 Model code key

CINDY - 12 - B - S - - - - L - - - - SVA -			
Valve series			Pressure setting
Leak-free load control valve = CINDY			... = 80 to 460 bar
Nominal size			Secondary pressure relief
12 mm = 12			SVA = Pressure relief from B to A
Version			Orifice combinations
B = B			.. = Type 1 ... 99 (see General Information Leaflet, section 9.)
Application / valve type			Pilot-control options
Load control valve, flange-mounted on actuator, or line-mounted = S			G.. = Pilot-control with "standard cover" D.. = Pilot-control with "damping cover" H.. = Pilot-control with "hydro-mechanical stroke limiter" (see General Information Leaflet, section 9.)
Seal material			Influence of return line (back pressure) to pilot-pressure
Nitrile (standard) -20°C to +80°C = N Nitrile (low temperature) -50°C to +80°C = T Viton -20°C to +200°C = V			L = Independent of back pressure in A (drain line required)
Fixing screws			Flow rate when lowering (spool size)
Without fixing screws = O Black fixing screws = S "Dacromate" fixing screws (anti-corrosion) = D			S020 = S020 S045 = S045 S060 = S060 S100 = S100 S140 = S140

Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010524.....	300 6010531.....	300 6010538.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-S-N-2-G 300.0306844	Service packages Cindy 12-B-S-V-2-G 300.0306902	Service packages Cindy 12-B-S-T-2-G 300.0306908
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-S-N-2-D 300.0306845	Service packages Cindy 12-B-S-V-2-D 300.0306903	Service packages Cindy 12-B-S-T-2-D 300.0306909

6. Description Cindy-12-B-S-.....-L-.....-SVT

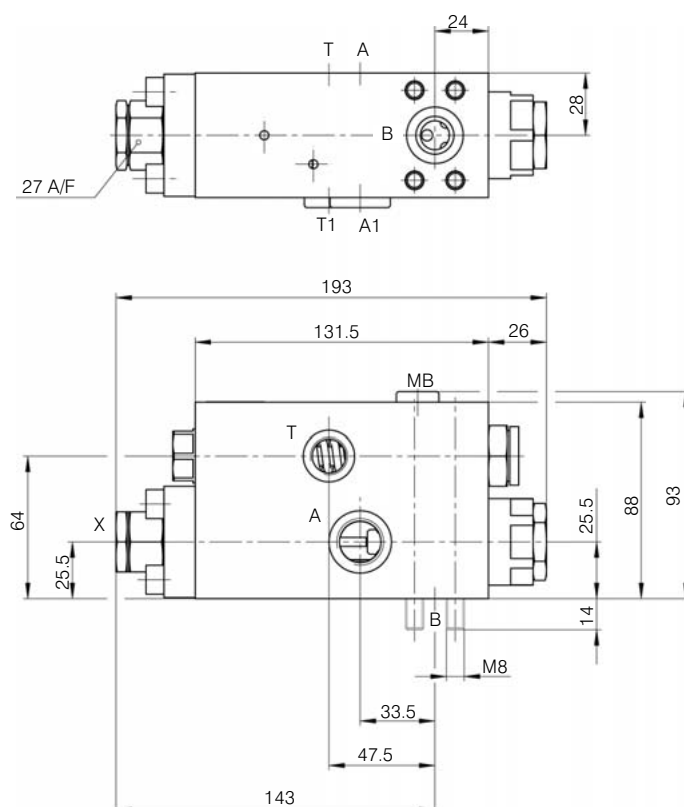
6.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	G 1/2"	-
B	SAE 1/2" 6000 psi	3.53x18.66
T, T1	G 3/8"	-
X, MB	G 1/4"	-

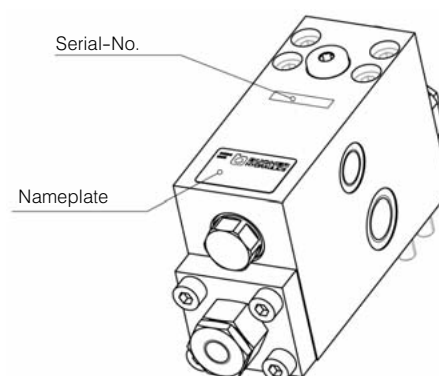
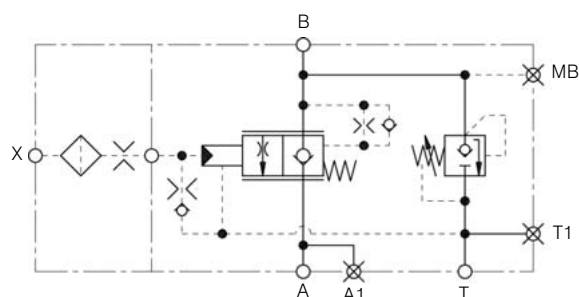
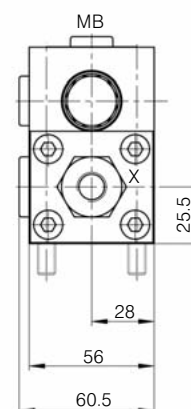
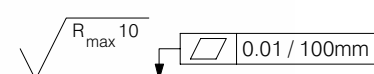
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 5.7 kg

6.2 Standard model

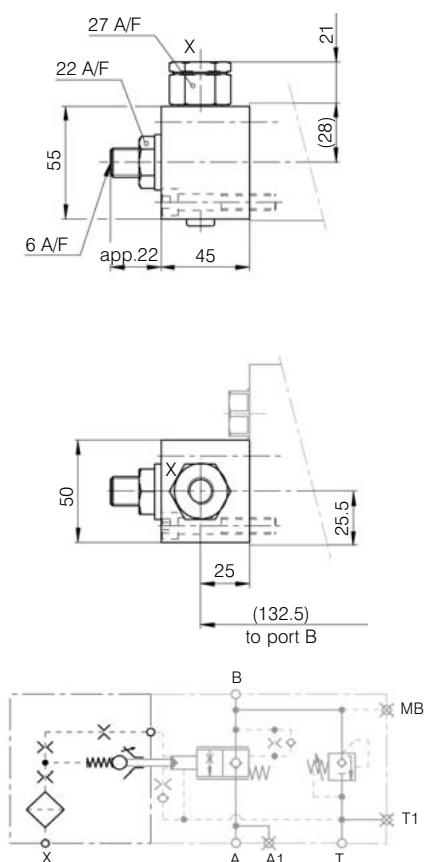


Required quality of the mating surface:

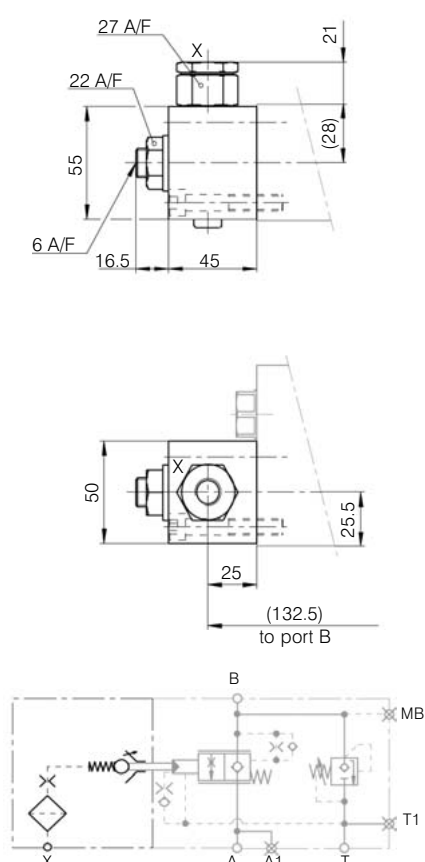


6.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

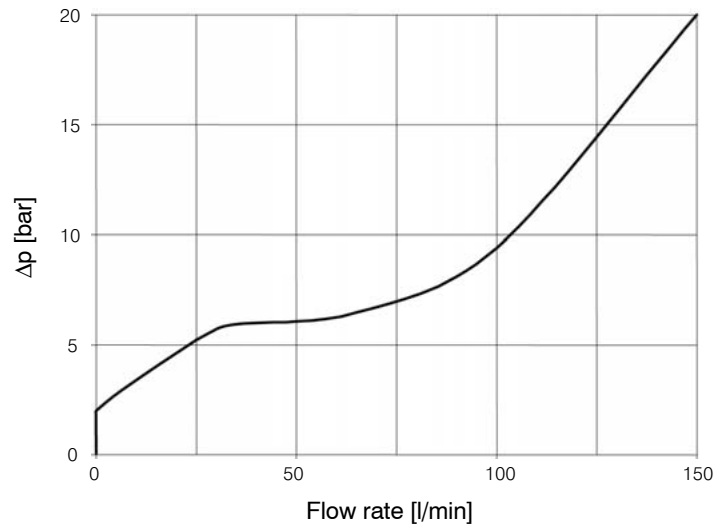


Pilot-control with the "hydro-mechanical stroke limiter" (H)

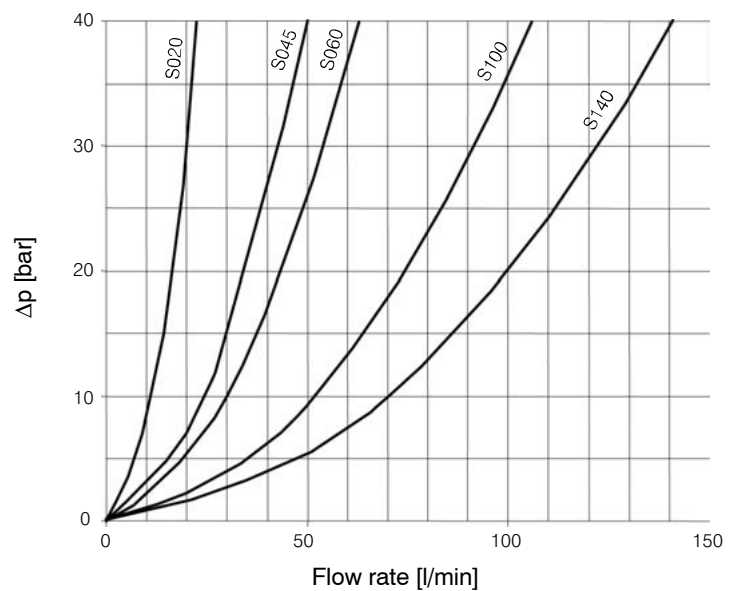


6.4 Characteristic curves (measured at 33 mm²/s [cSt])

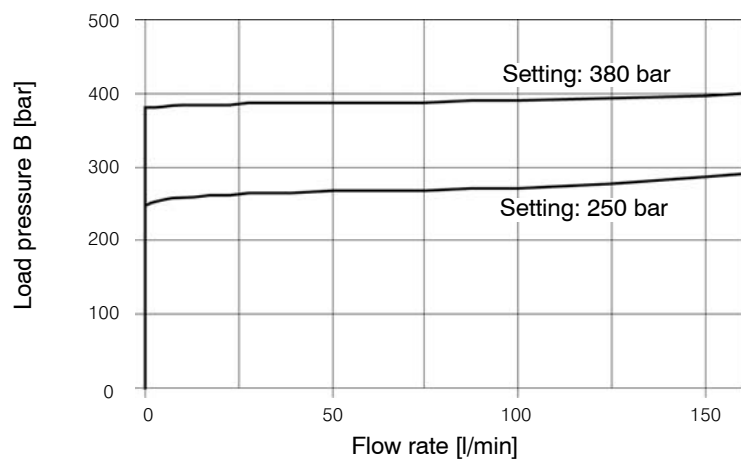
6.4.1 Δp from A $\rightarrow$ B (Lifting)



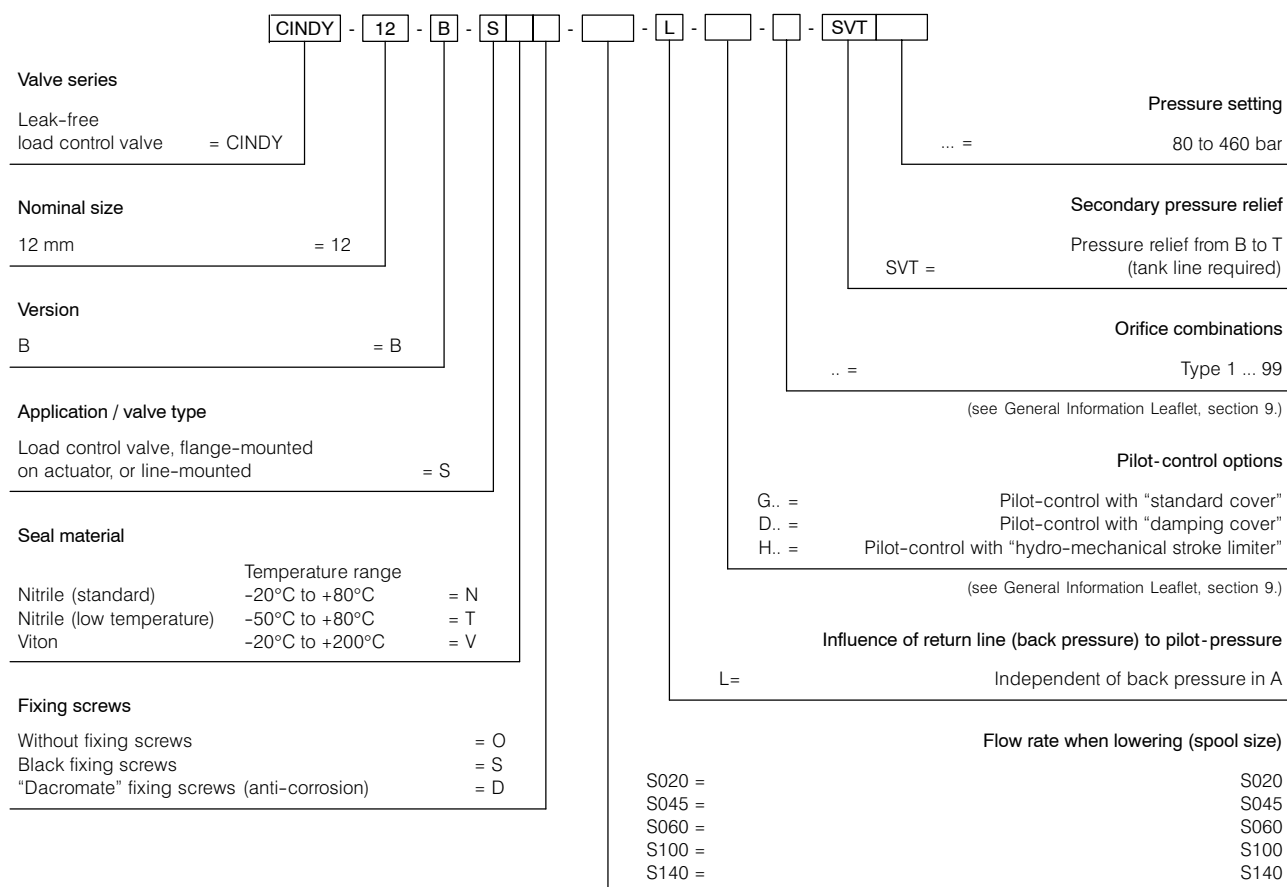
6.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



6.4.3 Opening characteristic of the secondary pressure relief valve



6.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010525.....	300 6010532.....	300 6010539.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-S-N-3-G 300.0306846	Service packages Cindy 12-B-S-V-3-G 300.0306904	Service packages Cindy 12-B-S-T-3-G 300.0306910
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-S-N-3-D 300.0306847	Service packages Cindy 12-B-S-V-3-D 300.0306905	Service packages Cindy 12-B-S-T-3-D 300.0306911

7. Description Cindy-12-B-S-.....-A-.....-SVZ

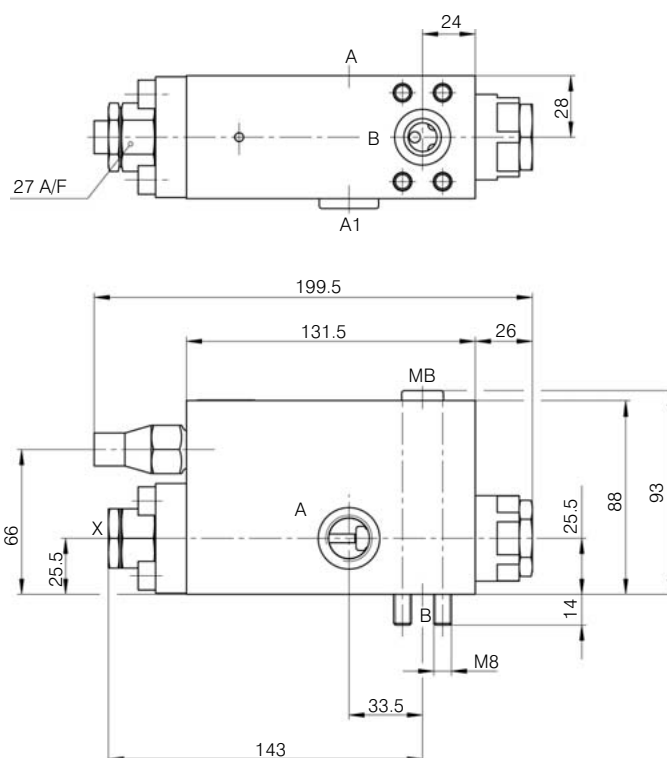
7.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	G 1/2"	-
B	SAE 1/2" 6000 psi	3.53x18.66
X, MB	G 1/4"	-

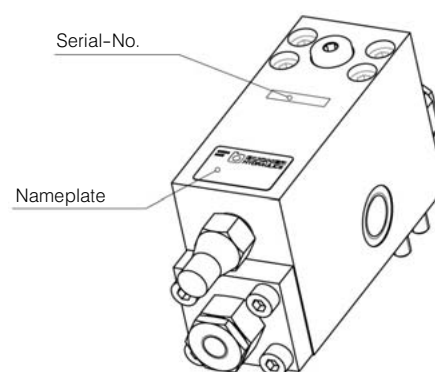
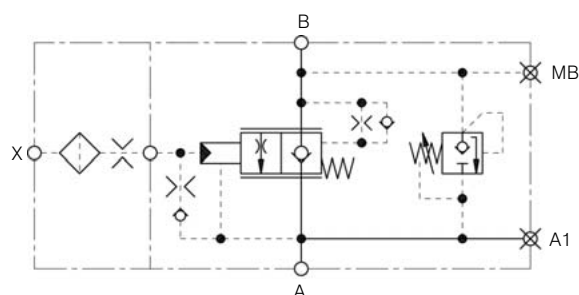
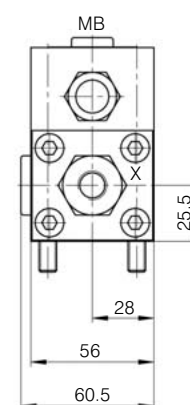
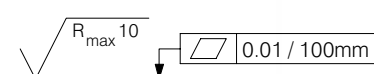
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 5.8 kg

7.2 Standard model

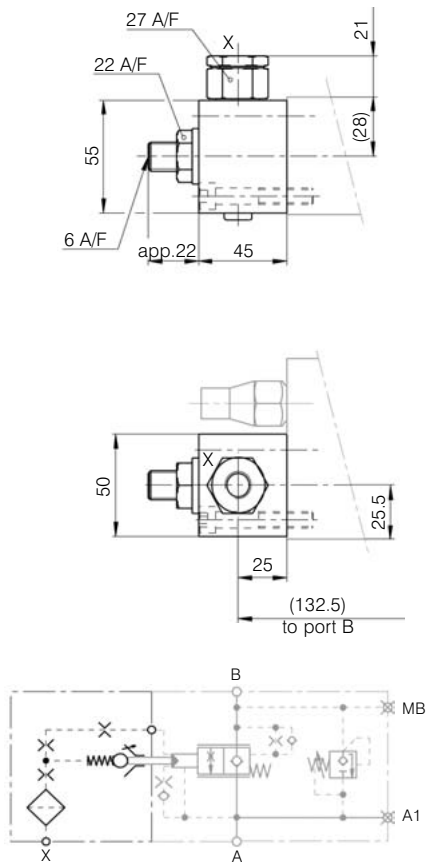


Required quality of the mating surface:

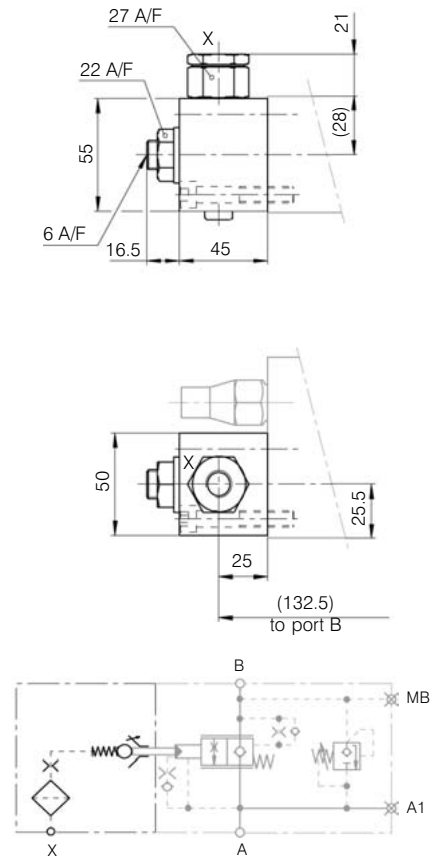


7.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

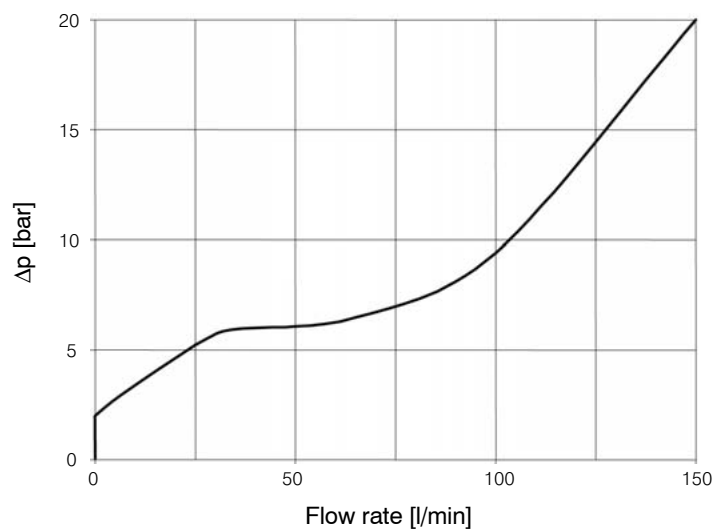


Pilot-control with the "hydro-mechanical stroke limiter" (H)

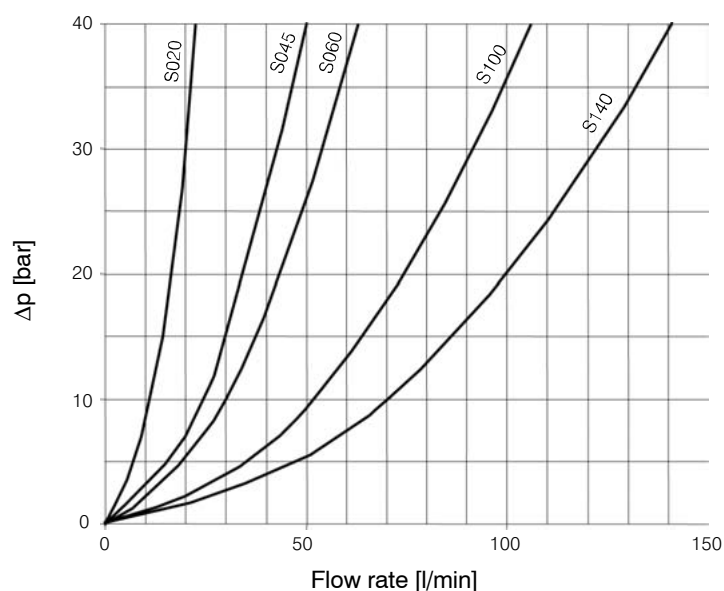


7.4 Characteristic curves (measured at 33 mm²/s [cSt])

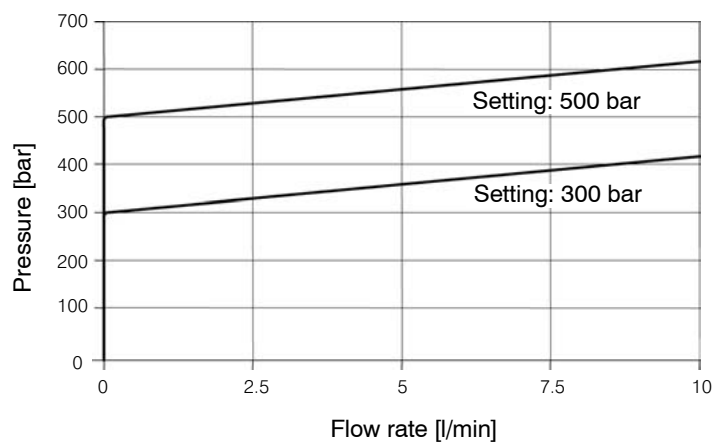
7.4.1 Δp from A $\rightarrow$ B (Lifting)



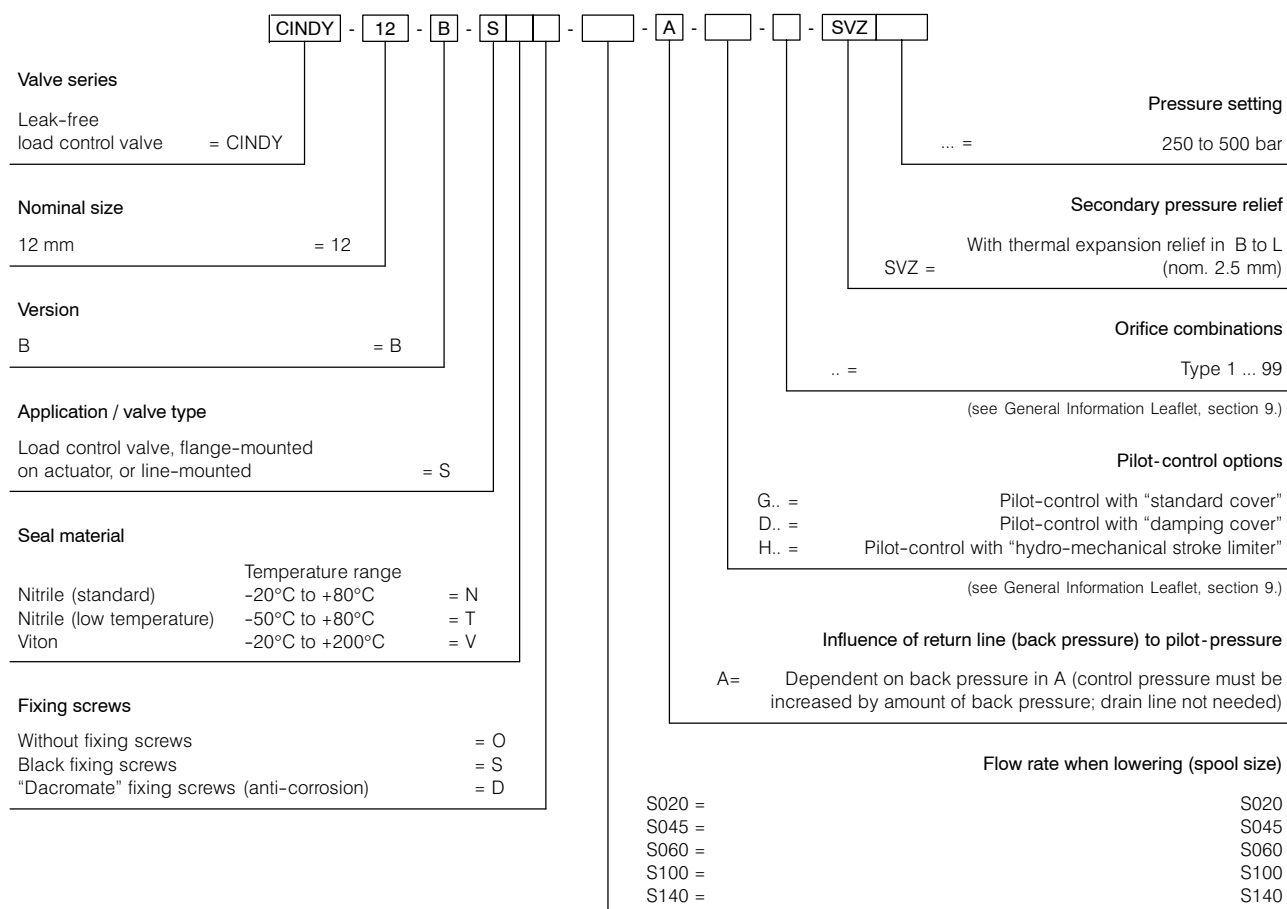
7.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



7.4.3 Opening characteristic of the thermal expansion pressure relief (UVP-4)



7.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010526.....	300 6010533.....	300 6010540.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-S-N-2-G 300.0306844	Service packages Cindy 12-B-S-V-2-G 300.0306902	Service packages Cindy 12-B-S-T-2-G 300.0306908
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-S-N-2-D 300.0306845	Service packages Cindy 12-B-S-V-2-D 300.0306903	Service packages Cindy 12-B-S-T-2-D 300.0306909
Optional SVZ	250-350 bar 300.6010408	250-350 bar 300.6010409	250-350 bar 300.6010410
	350-500 bar 300.6010411	350-500 bar 300.6010412	350-500 bar 300.6010413

8. Description Cindy-12-B-S-.....-L-.....-SVZ

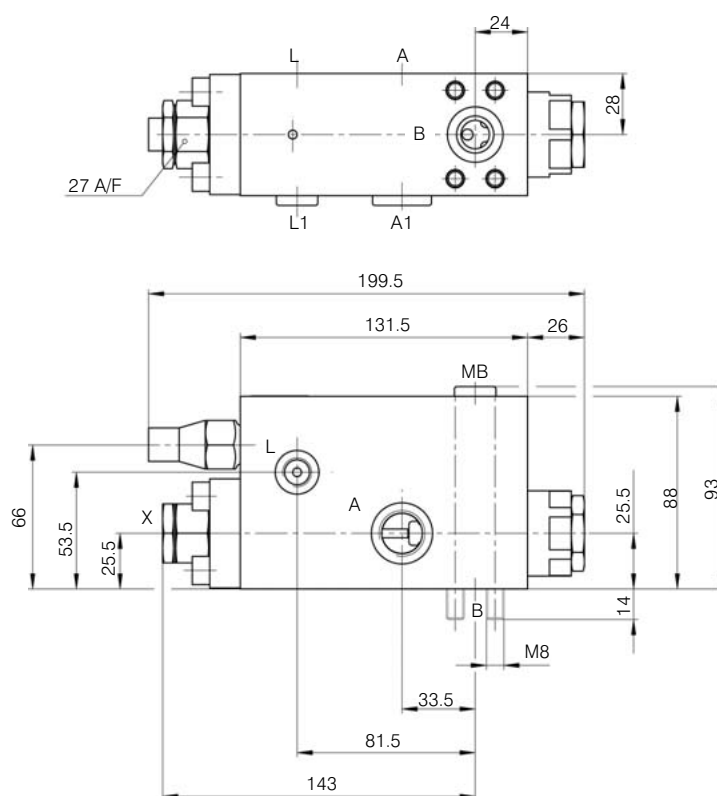
8.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	G 1/2"	-
B	SAE 1/2" 6000 psi	3.53x18.66
X, L, L1, MB	G 1/4"	-

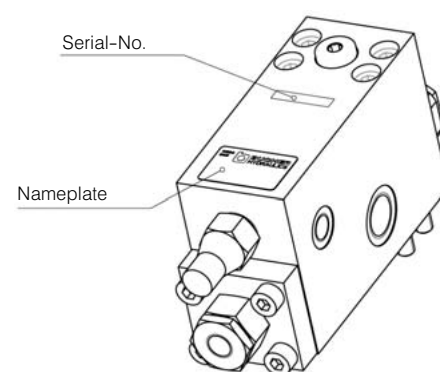
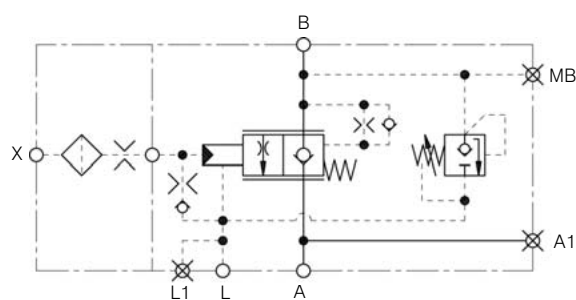
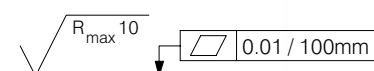
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 5.8 kg

8.2 Standard model

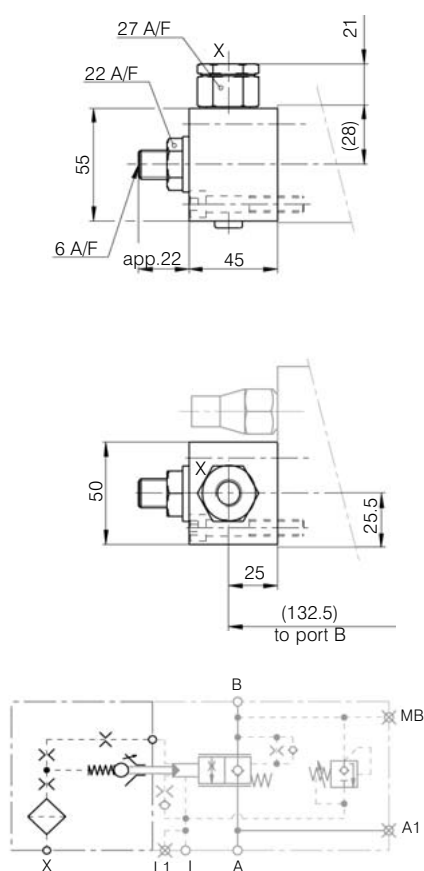


Required quality of the mating surface:

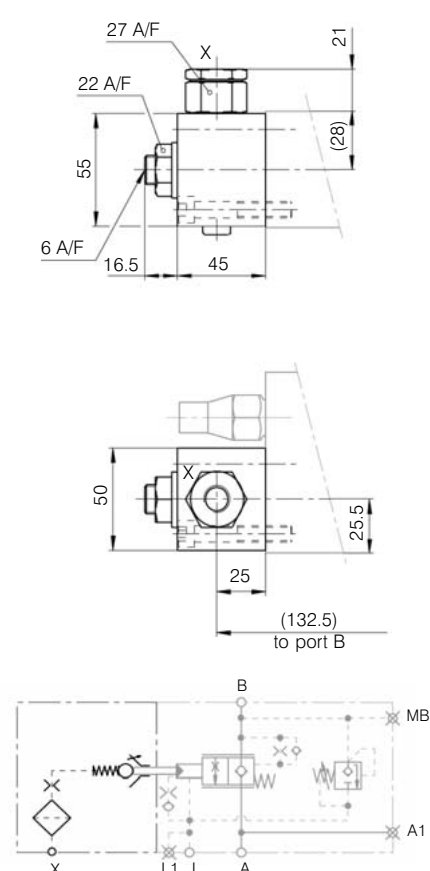


8.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

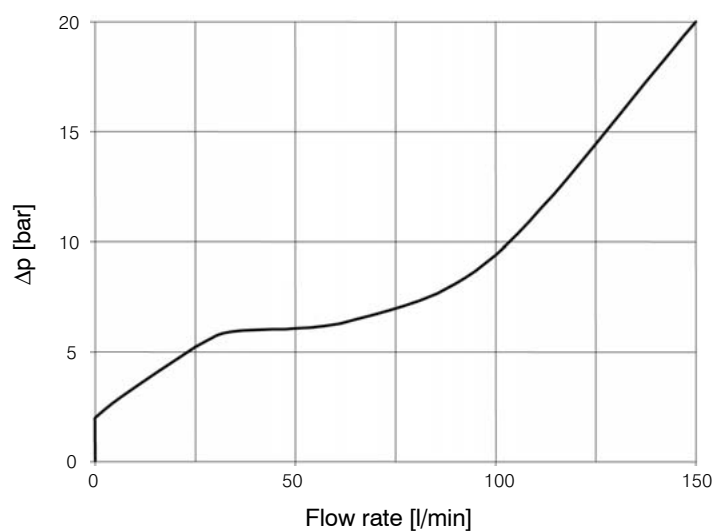


Pilot-control with the "hydro-mechanical stroke limiter" (H)

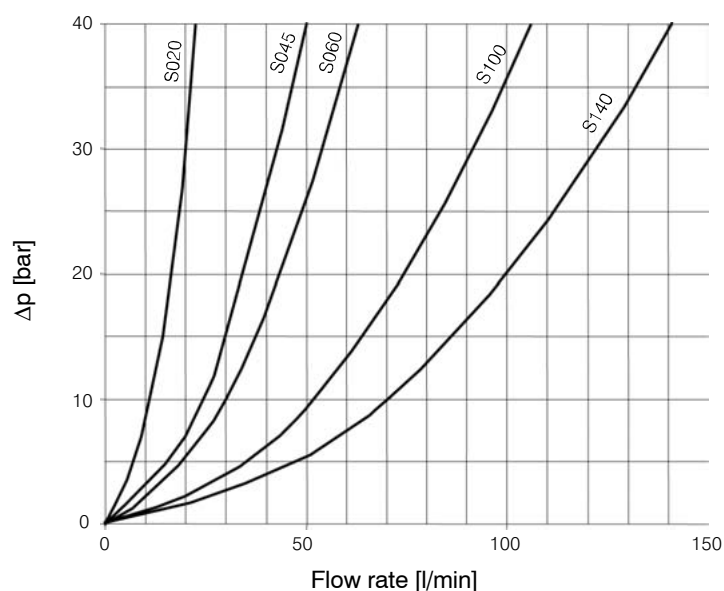


8.4 Characteristic curves (measured at 33 mm²/s [cSt])

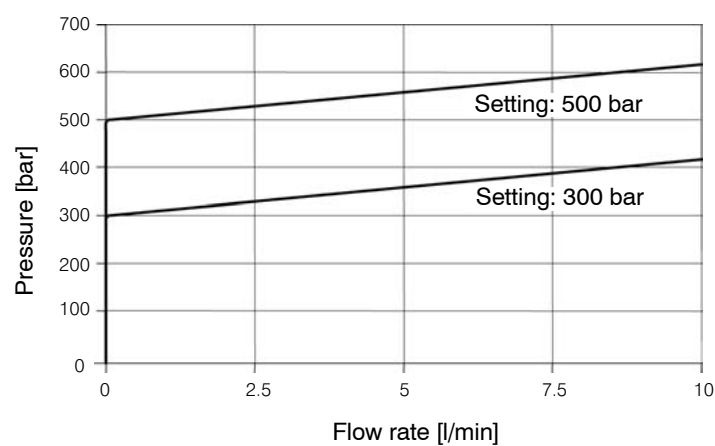
8.4.1 Δp from A $\rightarrow$ B (Lifting)



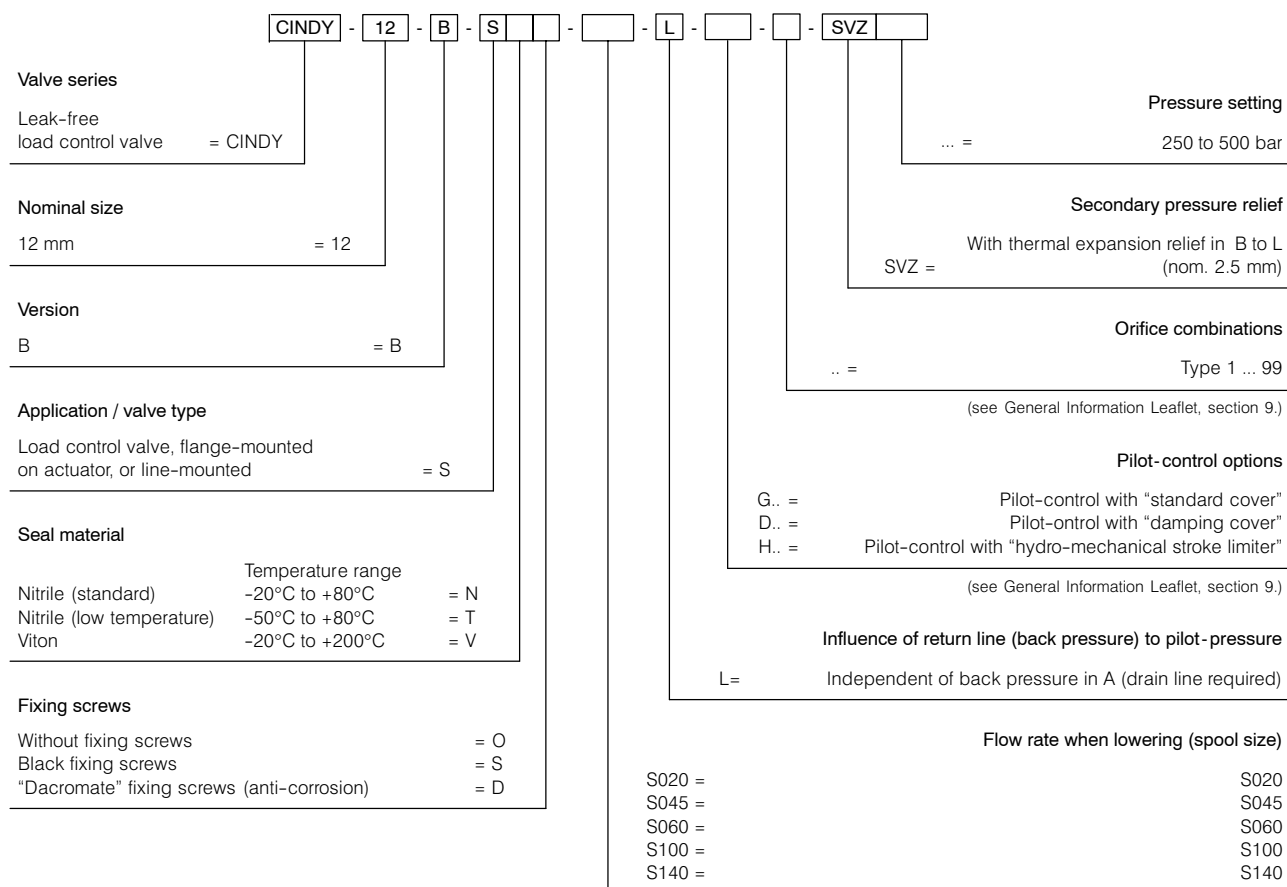
8.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



8.4.3 Opening characteristic of the thermal expansion pressure relief (UVP-4)



8.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010527.....	300 6010534.....	300 6010541.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-S-N-2-G 300.0306844	Service packages Cindy 12-B-S-V-2-G 300.0306902	Service packages Cindy 12-B-S-T-2-G 300.0306908
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-S-N-2-D 300.0306845	Service packages Cindy 12-B-S-V-2-D 300.0306903	Service packages Cindy 12-B-S-T-2-D 300.0306909
Optional SVZ	250-350 bar 300.6010408	250-350 bar 300.6010409	250-350 bar 300.6010410
	350-500 bar 300.6010411	350-500 bar 300.6010412	350-500 bar 300.6010413

9. Description Cindy-16-B-S-...-A-...-

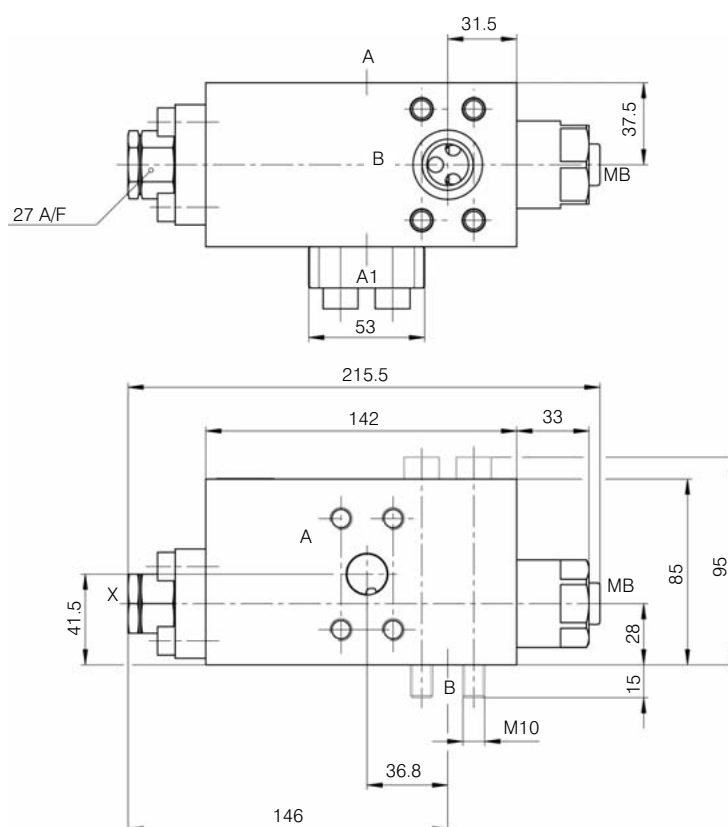
9.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 3/4" 6000 psi	-
B	SAE 3/4" 6000 psi	3.53x24.99
X, MB	G 1/4"	-

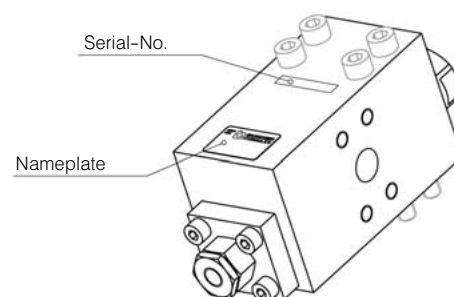
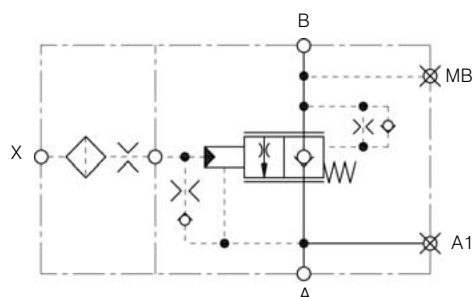
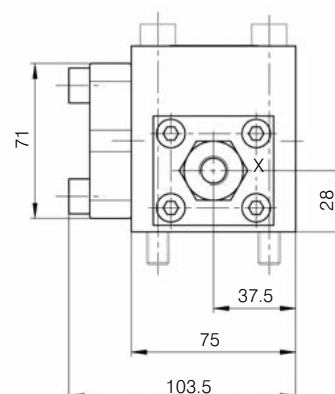
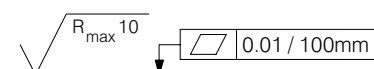
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.7 kg

9.2 Standard model

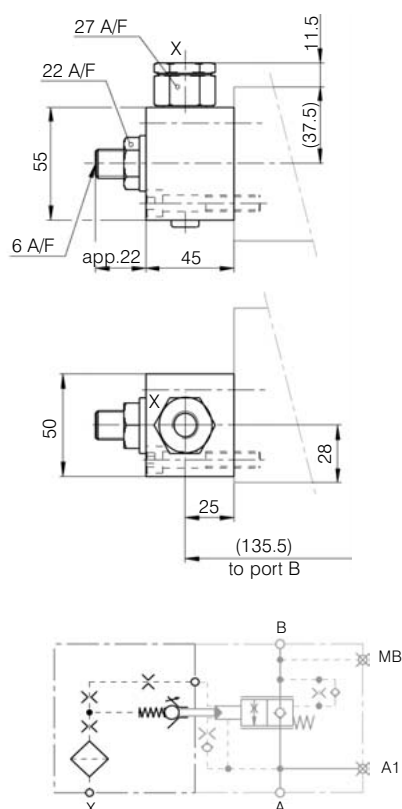


Required quality of the mating surface:

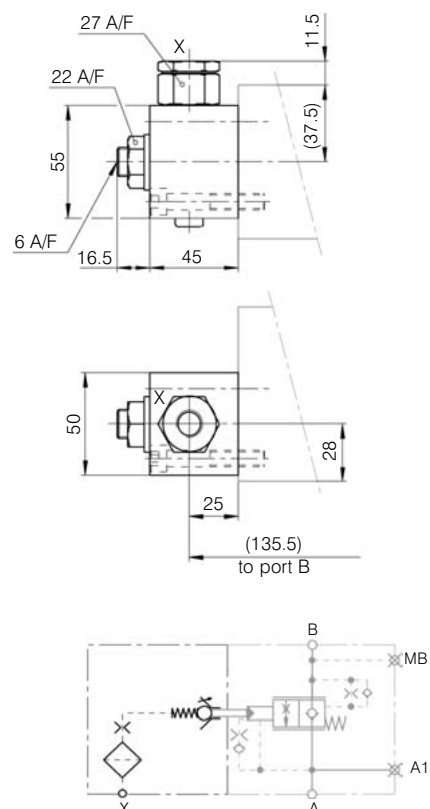


9.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

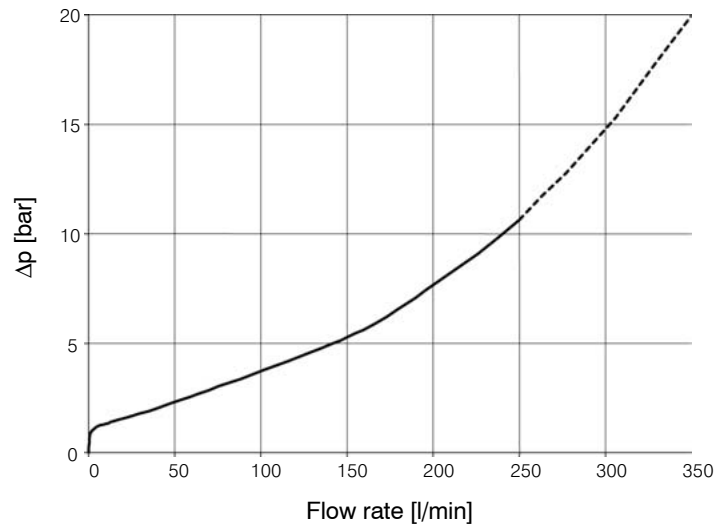


Pilot-control with the "hydro-mechanical stroke limiter" (H)

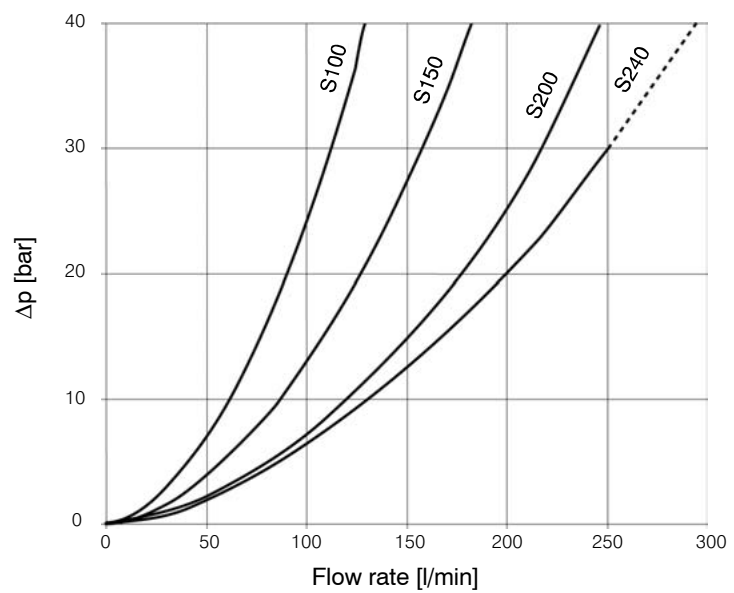


9.4 Characteristic curves (measured at 33 mm²/s [cSt])

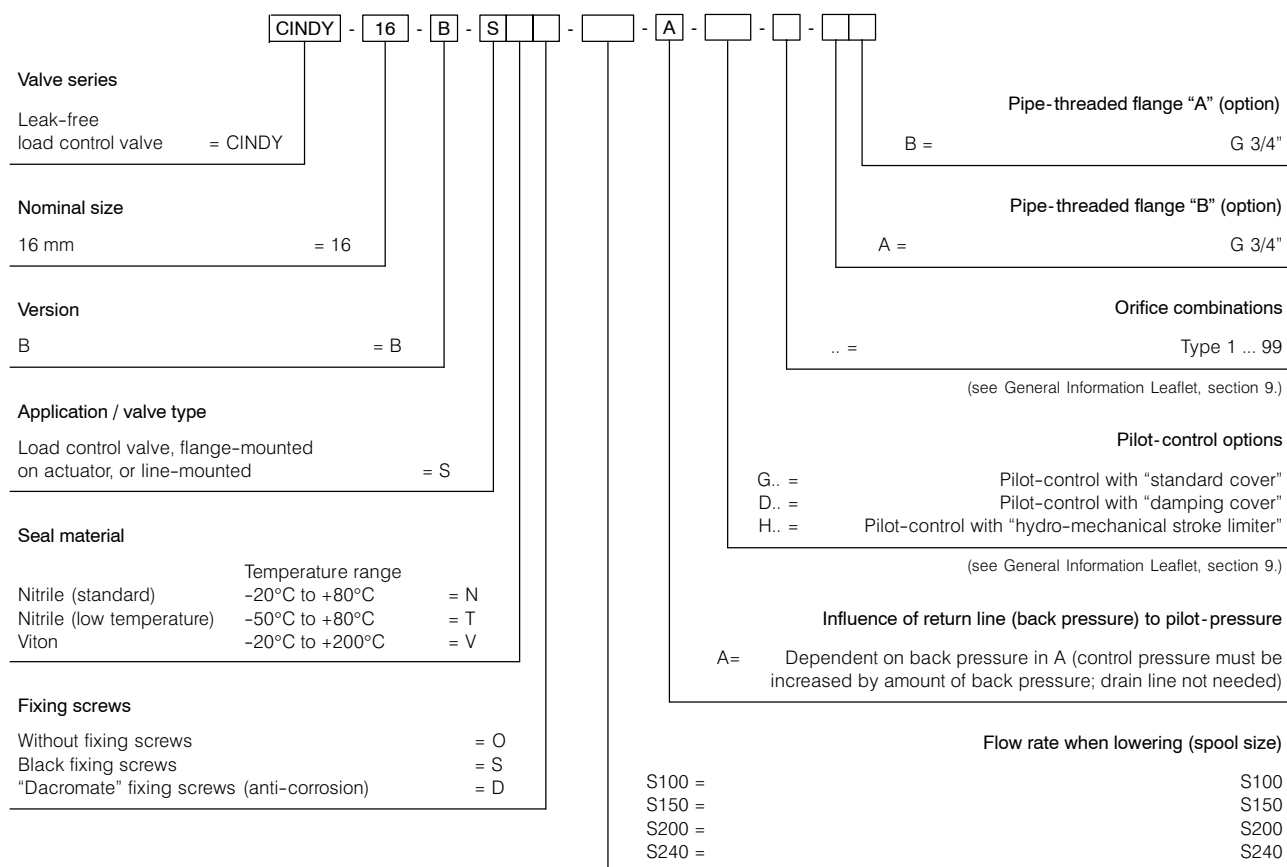
9.4.1 Δp from A $\rightarrow$ B (Lifting)



9.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



9.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010201.....	300 6010269.....	300 6010315.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-S-N-1-G 300.0306743	Service packages Cindy 16-B-S-V-1-G 300.0306782	Service packages Cindy 16-B-S-T-1-G 300.0306821
Pilot-control types D, H Art. No.	Service packages Cindy 16-B-S-N-1-D 300.0306744	Service packages Cindy 16-B-S-V-1-D 300.0306783	Service packages Cindy 16-B-S-T-1-D 300.0306822
Optional A flange	300.0306803	300.0306806	300.0306809

10. Description Cindy-16-B-S-...-L-...-..

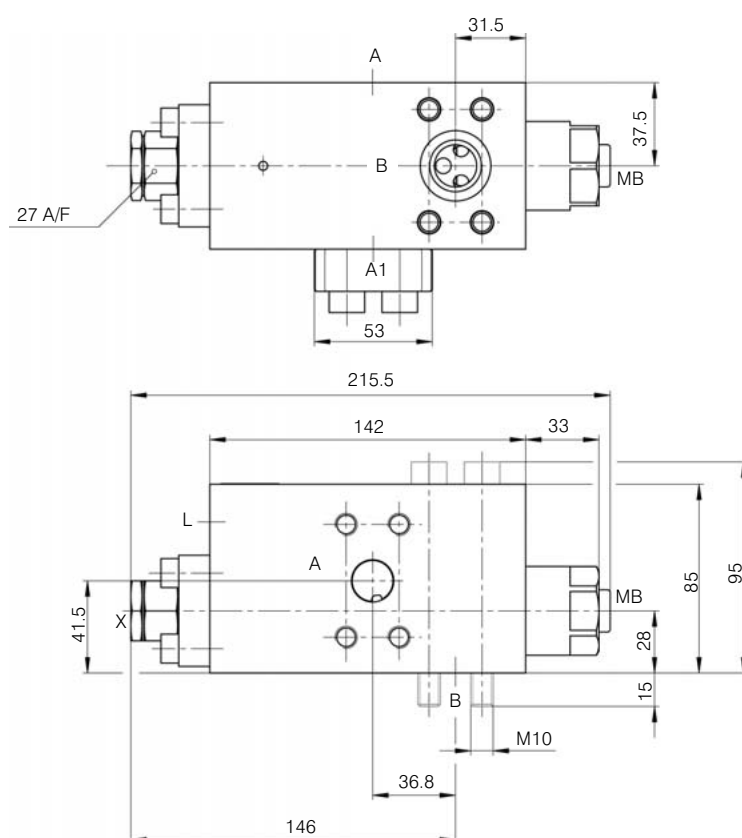
10.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 3/4" 6000 psi	-
B	SAE 3/4" 6000 psi	3.53x24.99
X, L, L2, MB, MX	G 1/4"	-

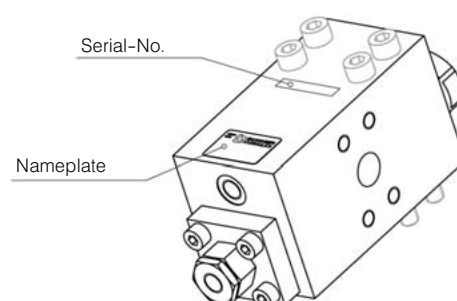
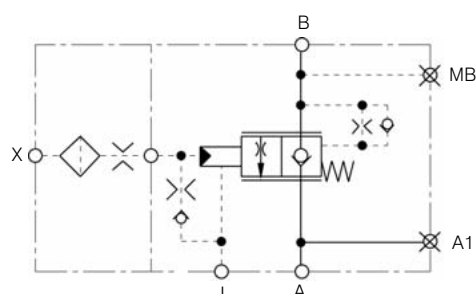
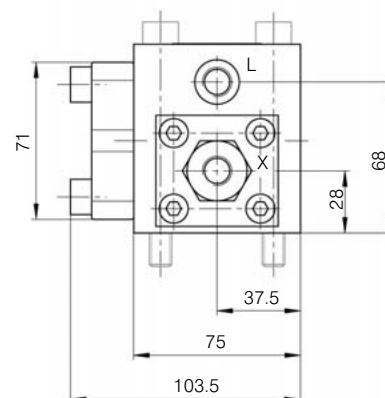
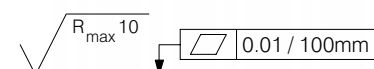
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

10.2 Standard model

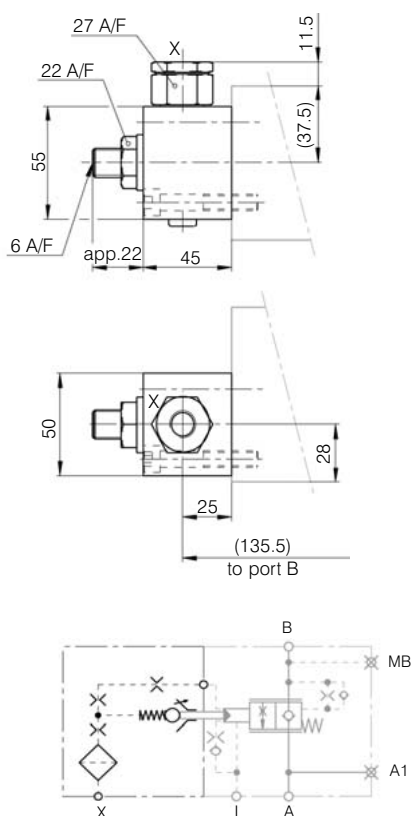


Required quality of the mating surface:

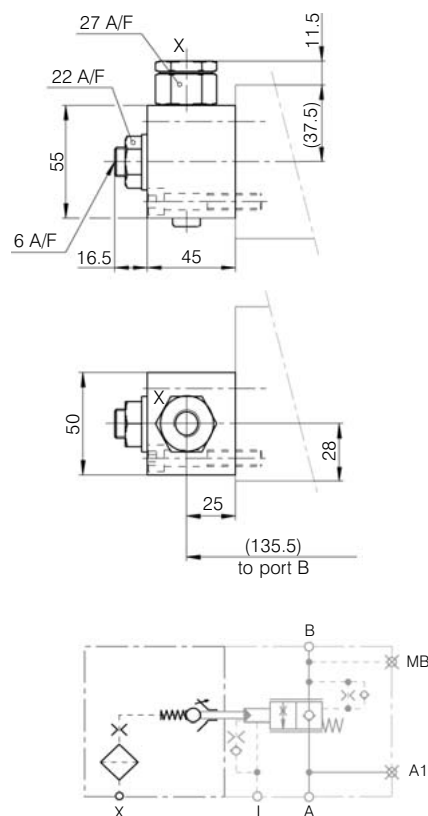


10.3 Pilot-control variants (each can be rotated through 180°)

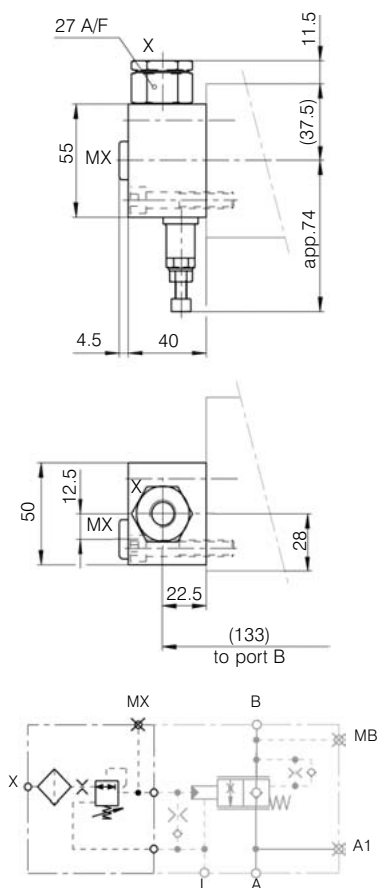
Pilot-control with the "damping cover" (D)



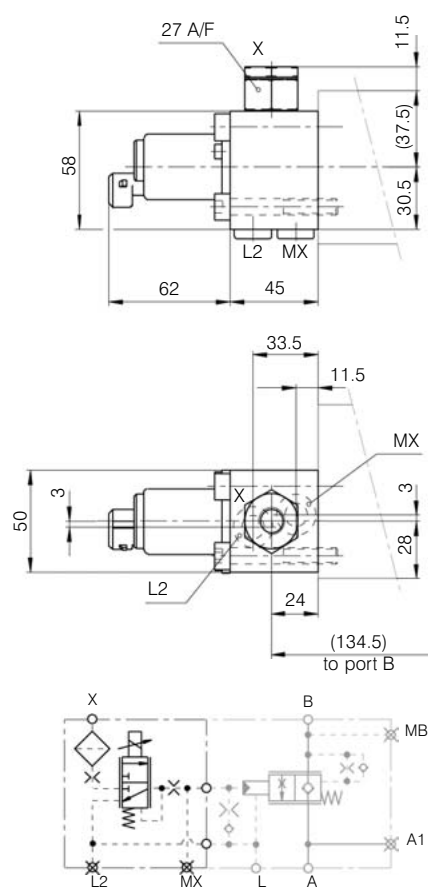
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

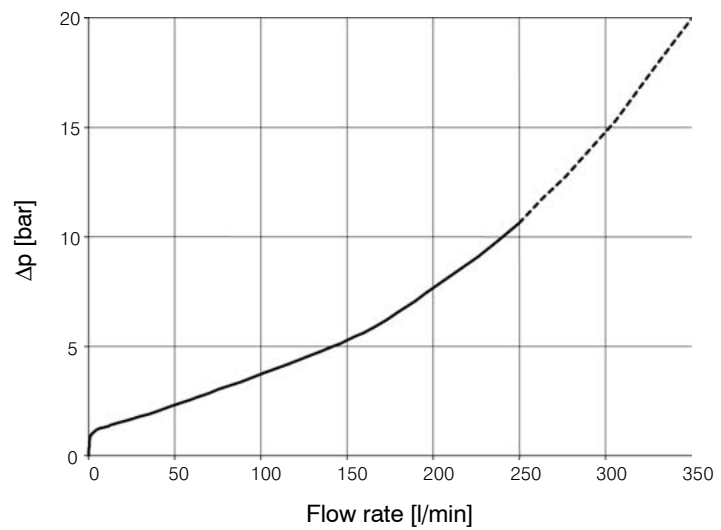


Pilot-control with the "electro-proportional pressure reducing valve" (E)

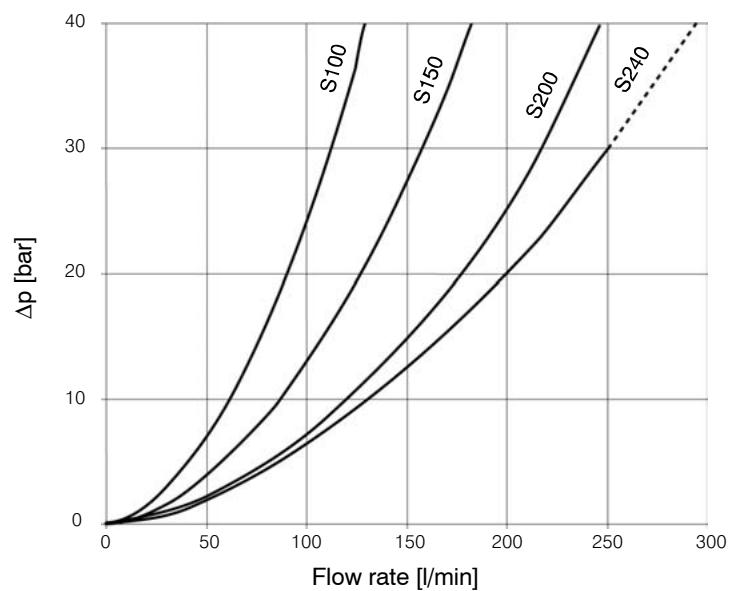


10.4 Characteristic curves (measured at 33 mm²/s [cSt])

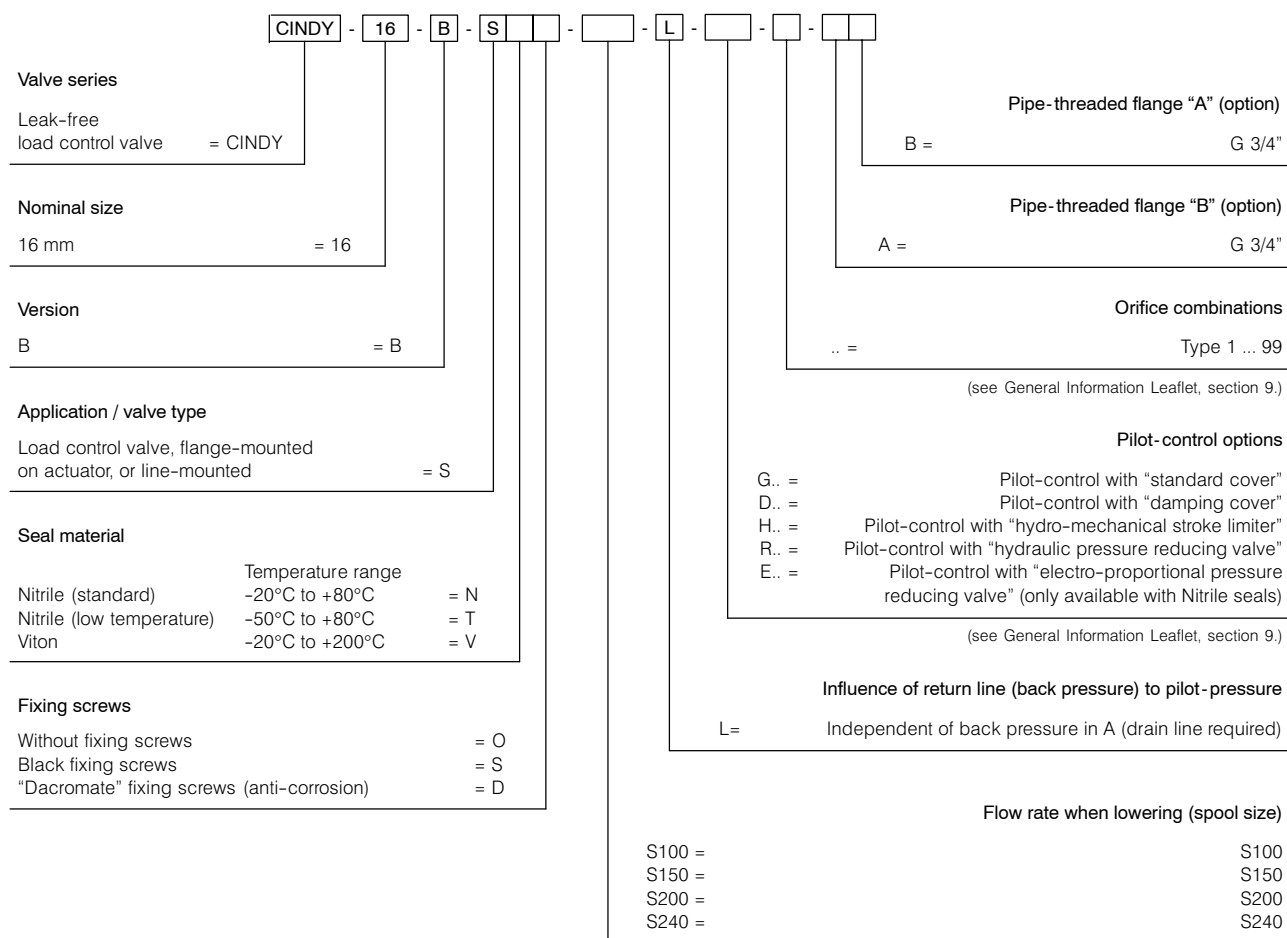
10.4.1 Δp from A $\rightarrow$ B (Lifting)



10.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



10.5 Model code key



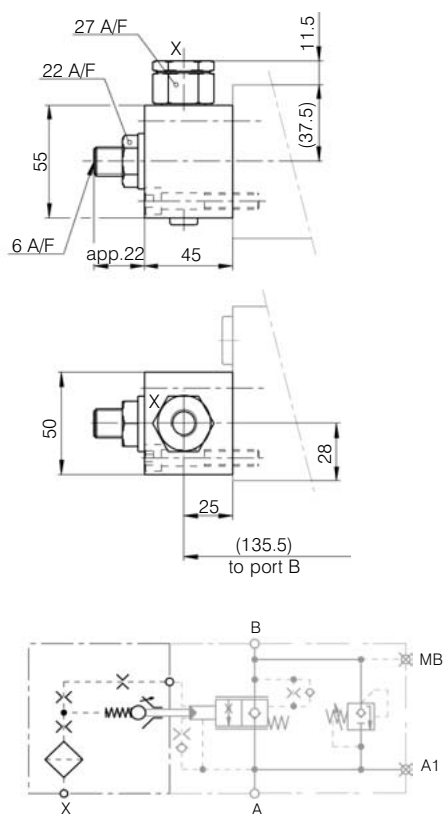
Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010202.....	300 6010270.....	300 6010316.....

Service packages

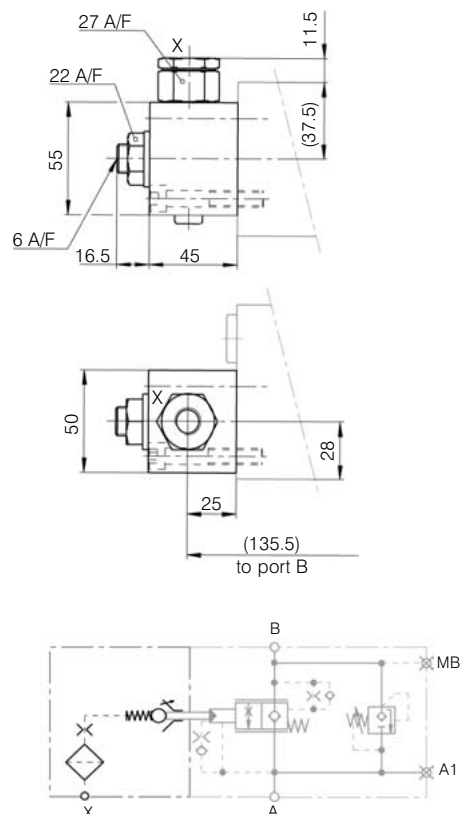
Pilot-control type G Art. No.	Service packages Cindy 16-B-S-N-1-G 300.0306743	Service packages Cindy 16-B-S-V-1-G 300.0306782	Service packages Cindy 16-B-S-T-1-G 300.0306821
Pilot-control types D, H Art. No.	Service packages Cindy 16-B-S-N-1-D 300.0306744	Service packages Cindy 16-B-S-V-1-D 300.0306783	Service packages Cindy 16-B-S-T-1-D 300.0306822
Pilot-control type R Art. No.	Service packages Cindy 16-B-S-N-1-R 300.0306745	Service packages Cindy 16-B-S-V-1-R 300.0306784	Service packages Cindy 16-B-S-T-1-R 300.0306823
Pilot-control type E Art. No.	Service packages Cindy 16-B-S-N-1-E 300.0306746	Only available with Nitrile seals	
Optional A flange	300.0306803	300.0306806	300.0306809

11.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

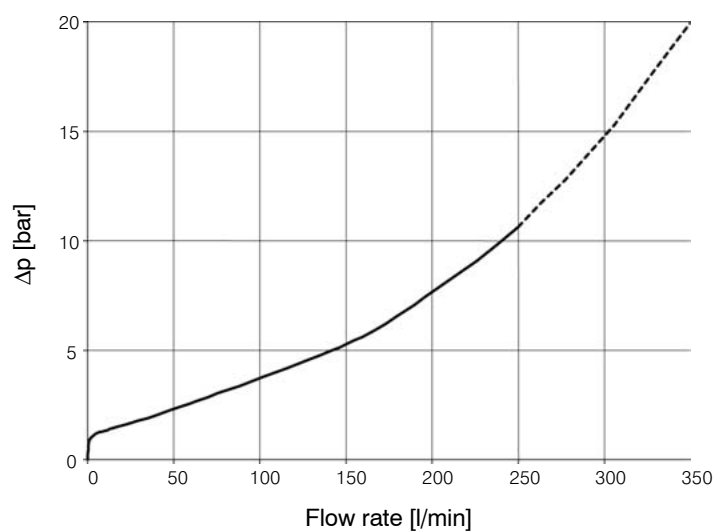


Pilot-control with the "hydro-mechanical stroke limiter" (H)

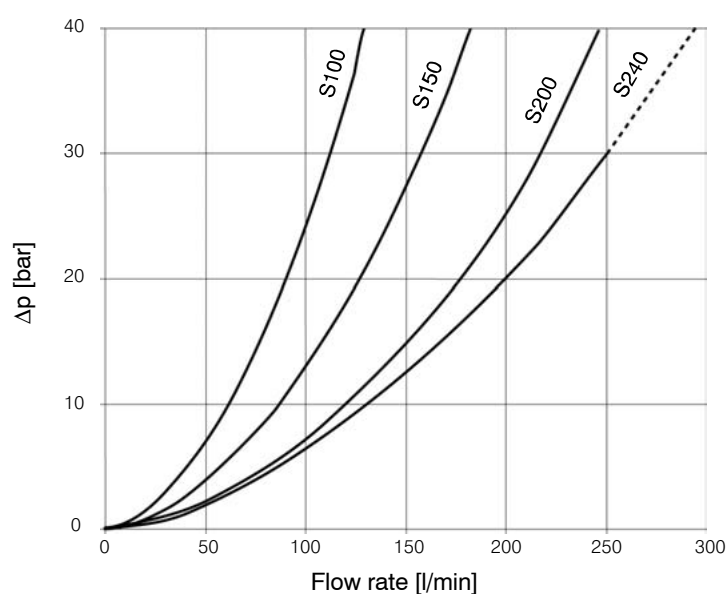


11.4 Characteristic curves (measured at 33 mm²/s [cSt])

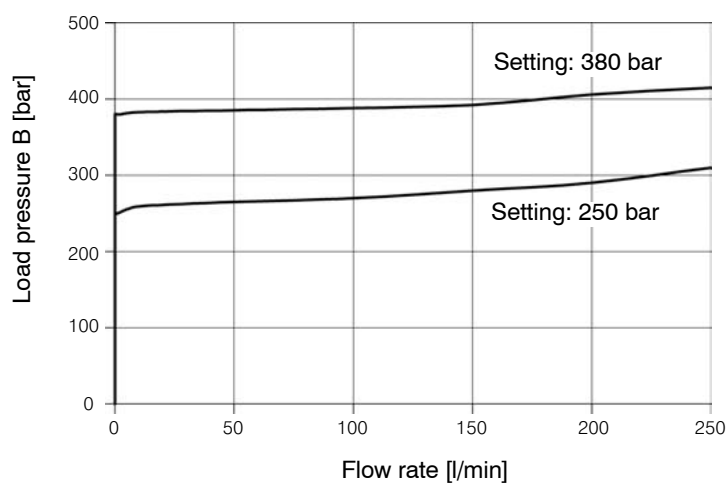
11.4.1 Δp from A $\rightarrow$ B (Lifting)



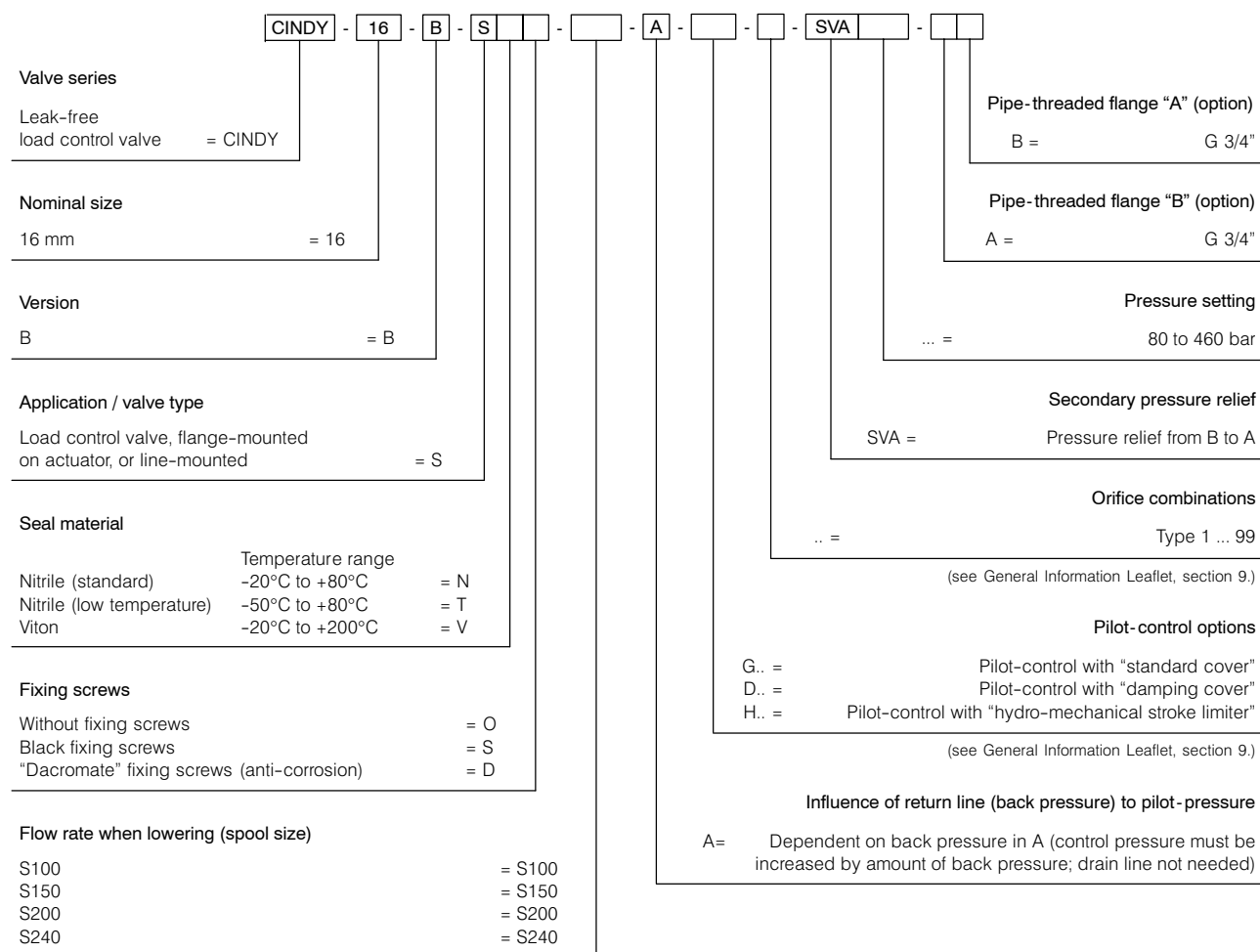
11.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



11.4.3 Opening characteristic of the secondary pressure relief valve



11.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010203.....	300 6010271.....	300 6010317.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-S-N-2-G 300.0306747	Service packages Cindy 16-B-S-V-2-G 300.0306785	Service packages Cindy 16-B-S-T-2-G 300.0306824
Pilot-control types D, H Art. No.	Service packages Cindy 16-B-S-N-2-D 300.0306748	Service packages Cindy 16-B-S-V-2-D 300.0306786	Service packages Cindy 16-B-S-T-2-D 300.0306825
Optional A flange	300.0306803	300.0306806	300.0306809

12. Description Cindy-16-B-S...-L-...-SVA...

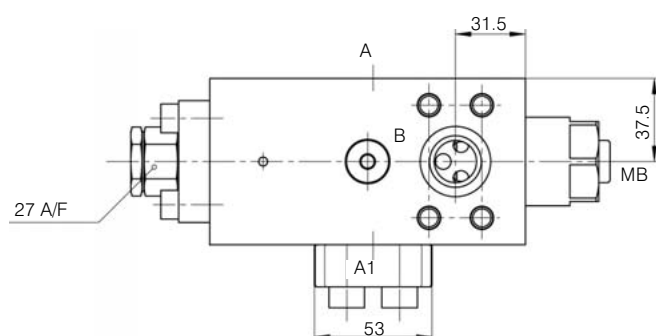
12.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 3/4" 6000 psi	-
B	SAE 3/4" 6000 psi	3.53x24.99
X, L, L2, MB, MX	G 1/4"	-

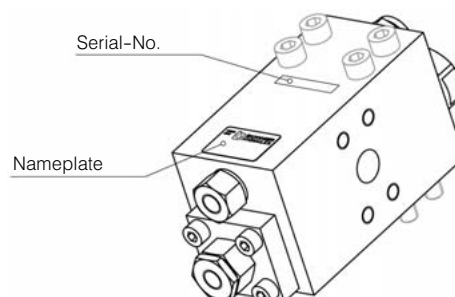
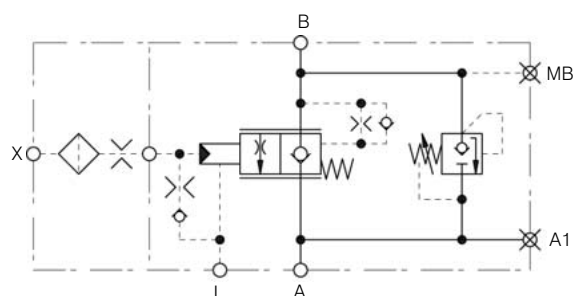
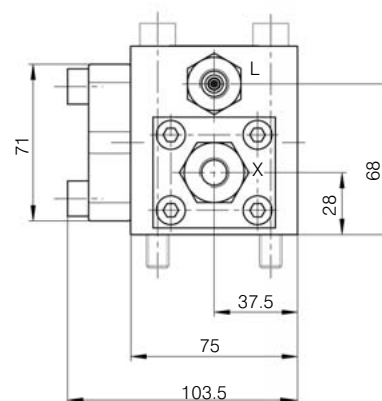
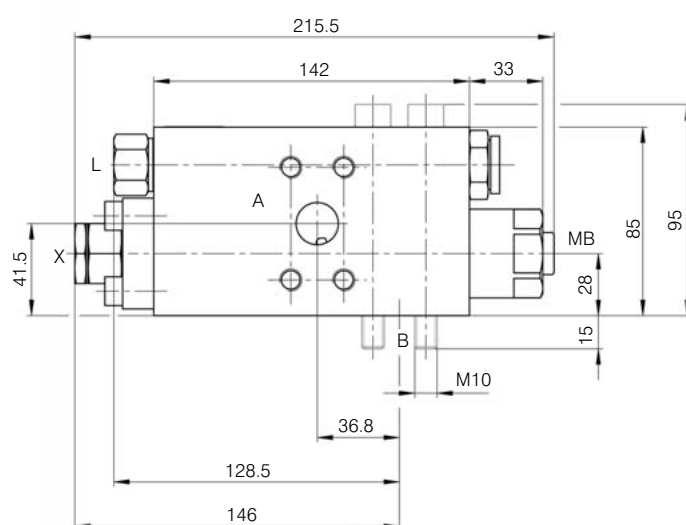
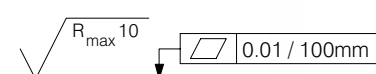
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

12.2 Standard model

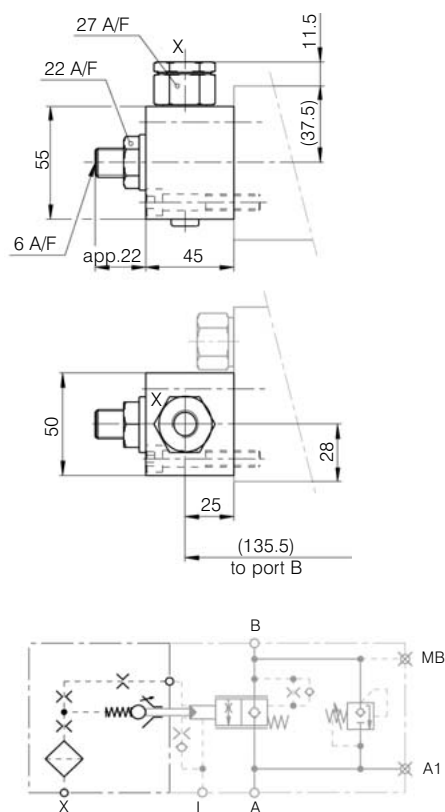


Required quality of the mating surface:

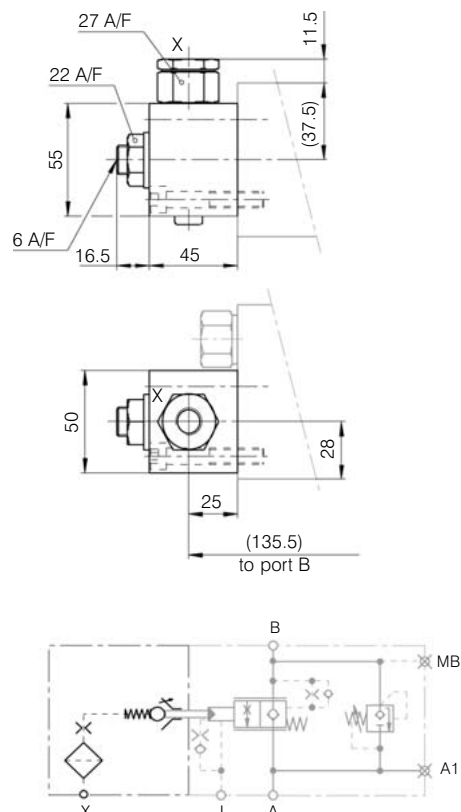


12.3 Pilot-control variants (each can be rotated through 180°)

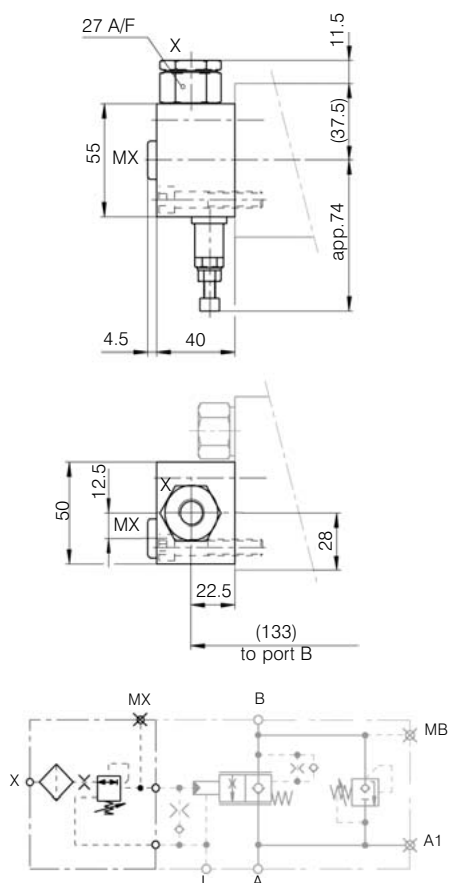
Pilot-control with the "damping cover" (D)



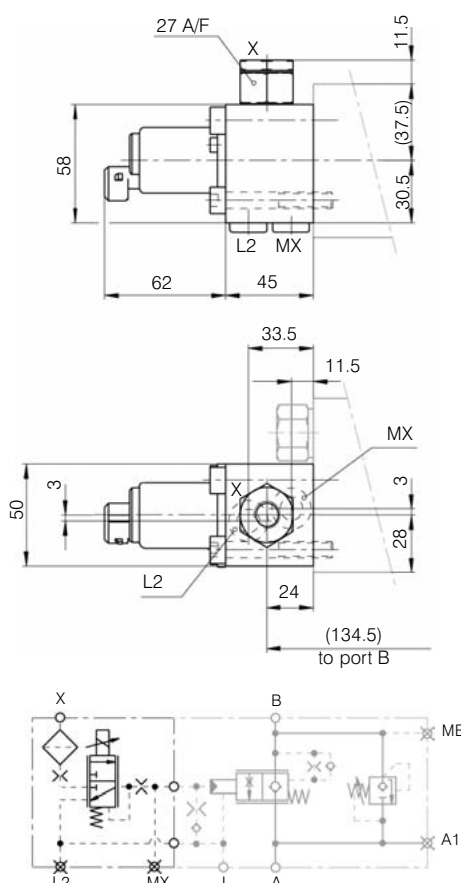
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

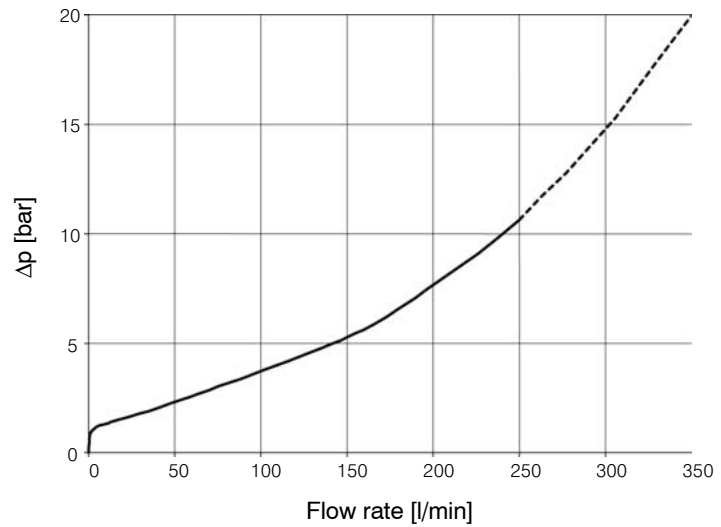


Pilot-control with the "electro-proportional pressure reducing valve" (E)

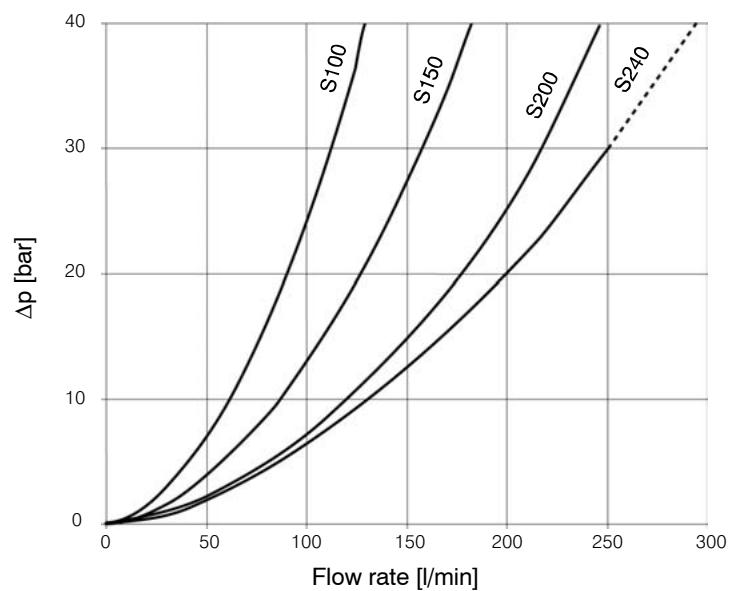


12.4 Characteristic curves (measured at 33 mm²/s [cSt])

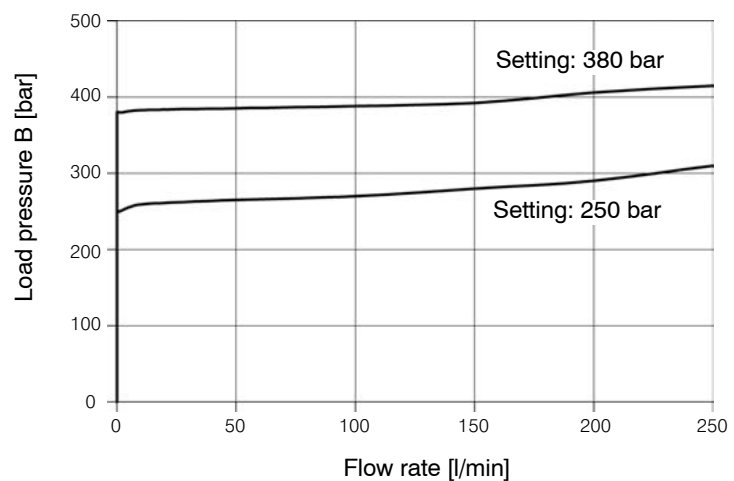
12.4.1 Δp from A $\rightarrow$ B (Lifting)



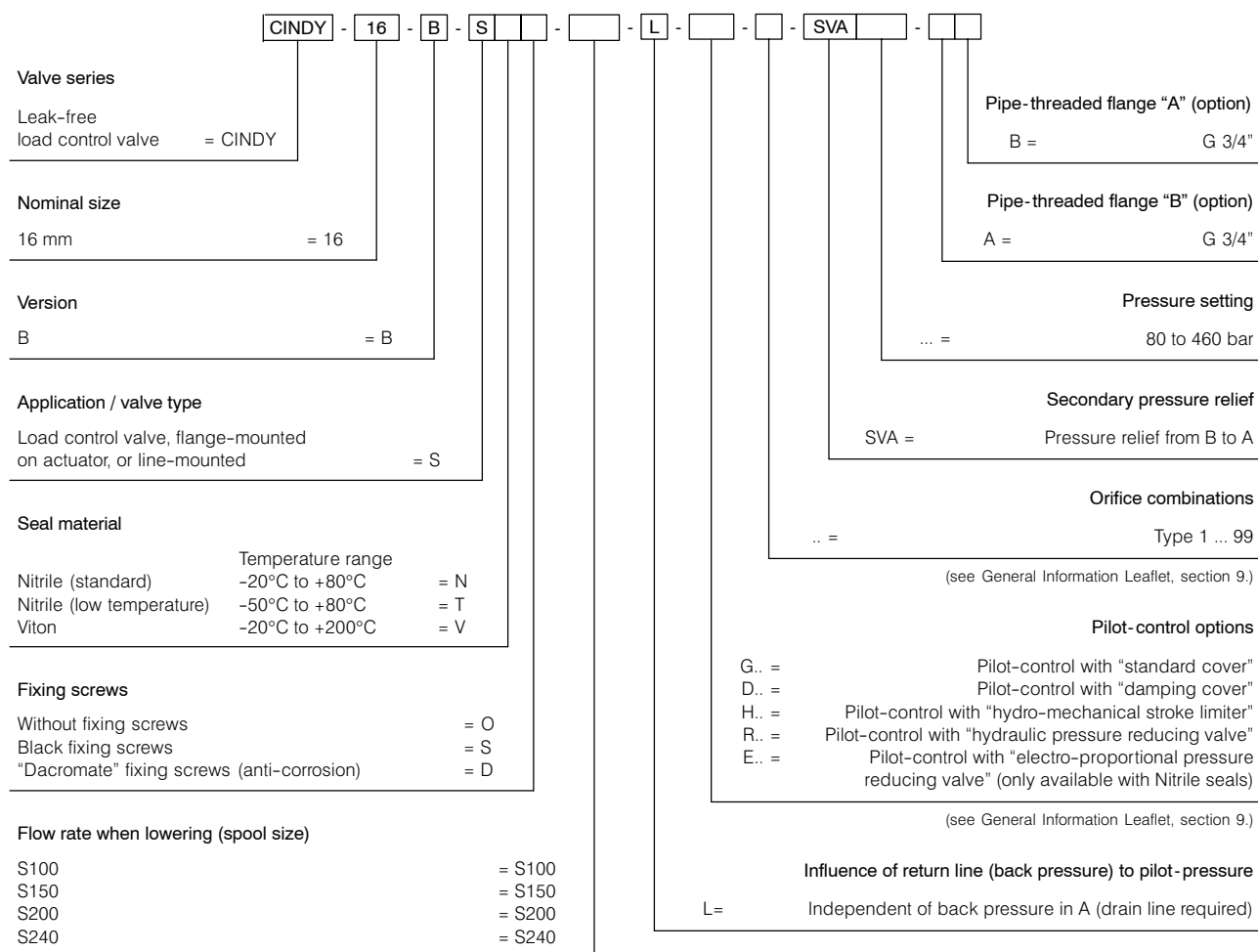
12.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



12.4.3 Opening characteristic of the secondary pressure relief valve



12.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010204.....	300 6010272.....	300 6010318.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-S-N-1-G 300.0306743	Service packages Cindy 16-B-S-V-1-G 300.0306782	Service packages Cindy 16-B-S-T-1-G 300.0306821
Pilot-control types D, H Art. No.	Service packages Cindy 16-B-S-N-1-D 300.0306744	Service packages Cindy 16-B-S-V-1-D 300.0306783	Service packages Cindy 16-B-S-T-1-D 300.0306822
Pilot-control type R Art. No.	Service packages Cindy 16-B-S-N-1-R 300.0306745	Service packages Cindy 16-B-S-V-1-R 300.0306784	Service packages Cindy 16-B-S-T-1-R 300.0306823
Pilot-control type E Art. No.	Service packages Cindy 16-B-S-N-1-E 300.0306746	Only available with Nitrile seals	Only available with Nitrile seals
Optional A flange	300.0306803	300.0306806	300.0306809

13. Description Cindy-16-B-S...-L-...-SVT...

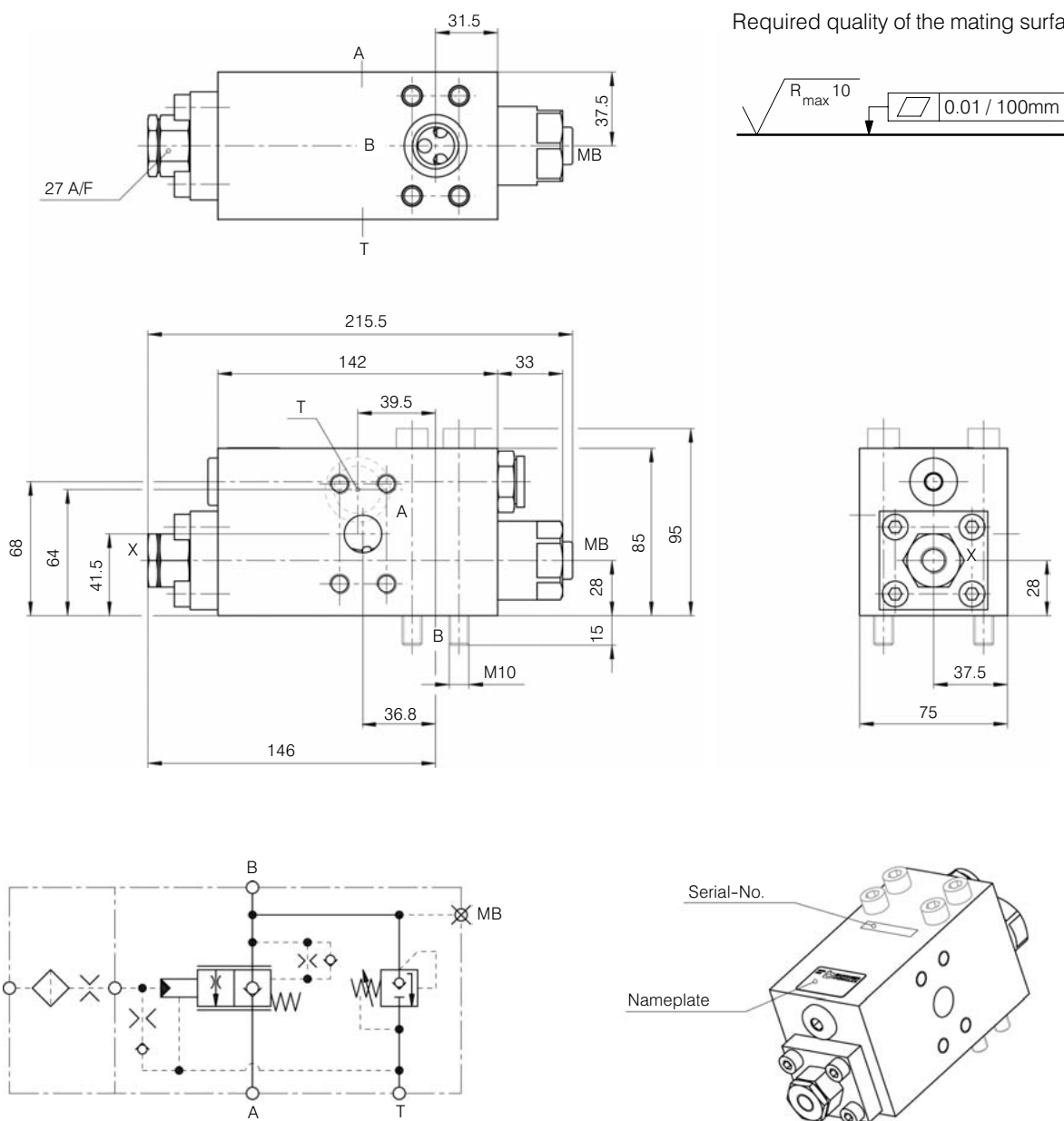
13.1 Port sizes / weight

Port	Port size	O-Ring
A	SAE 3/4" 6000 psi	-
B	SAE 3/4" 6000 psi	3.53x24.99
T	G 3/4"	-
X, L2, MB, MX	G 1/4"	-

For tightening torques, see Cindy General Information leaflet, section 6.

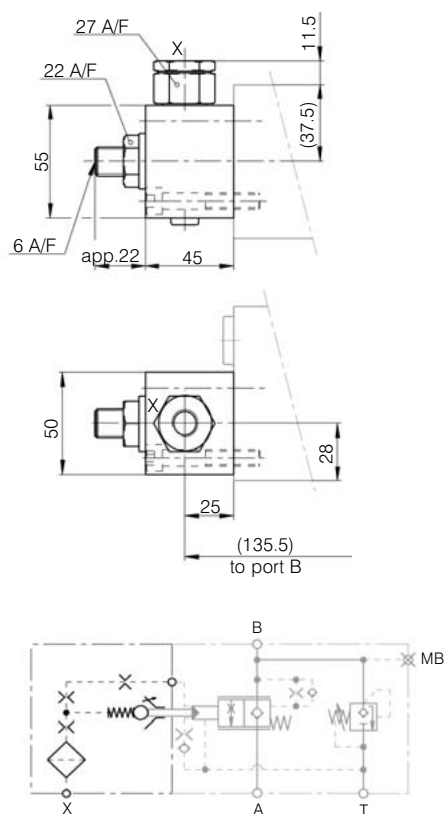
Weight: approx. 7.6 kg

13.2 Standard model

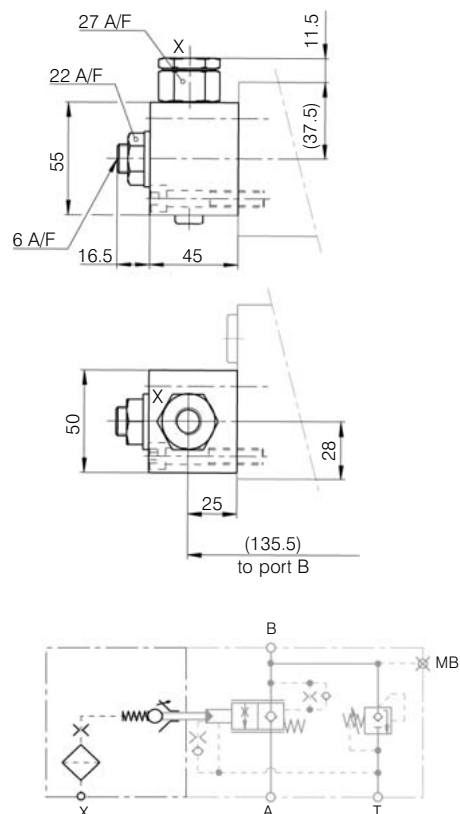


13.3 Pilot-control variants (each can be rotated through 180°)

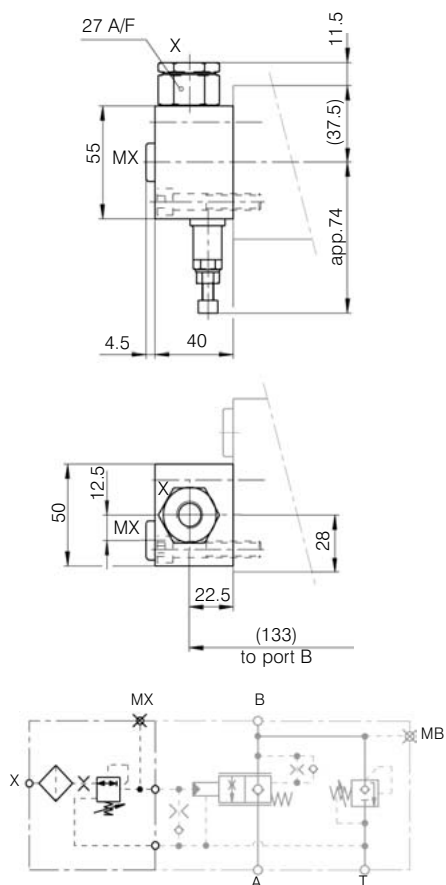
Pilot-control with the "damping cover" (D)



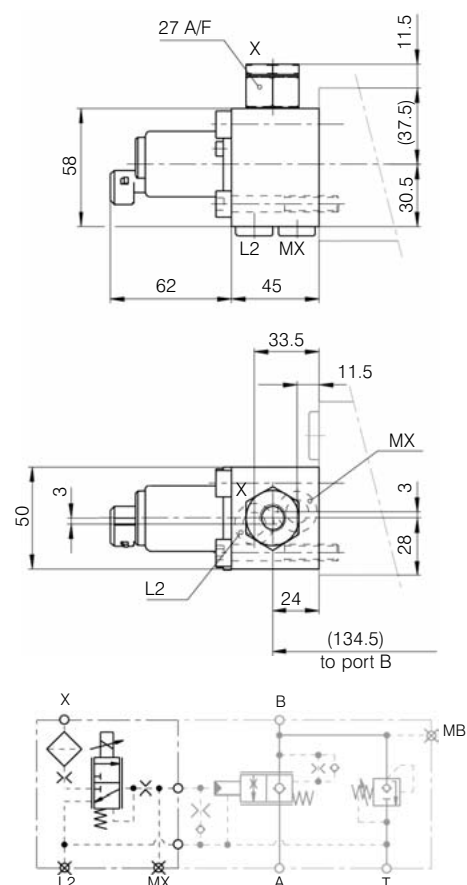
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

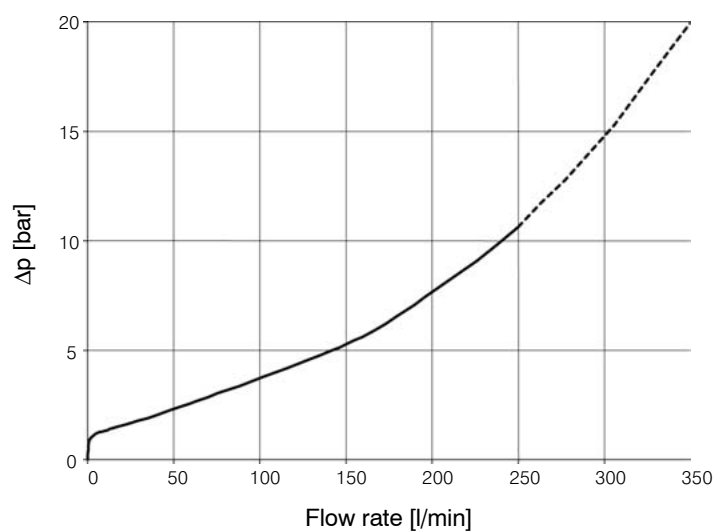


Pilot-control with the "electro-proportional pressure reducing valve" (E)

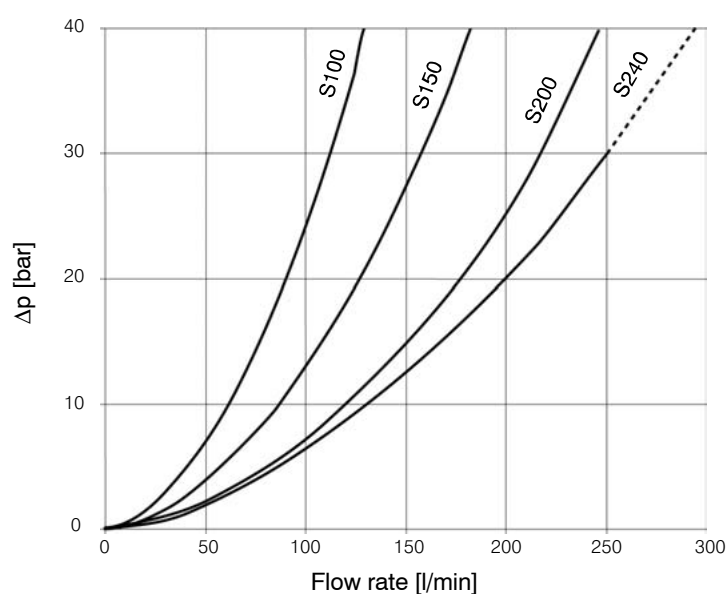


13.4 Characteristic curves (measured at 33 mm²/s [cSt])

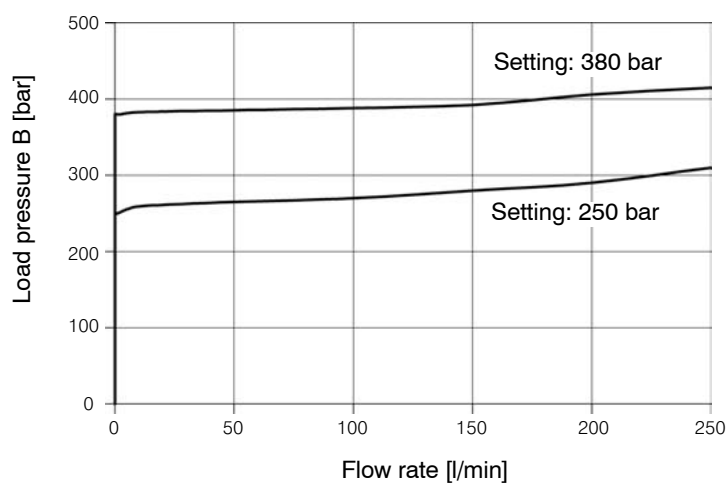
13.4.1 Δp from A $\rightarrow$ B (Lifting)



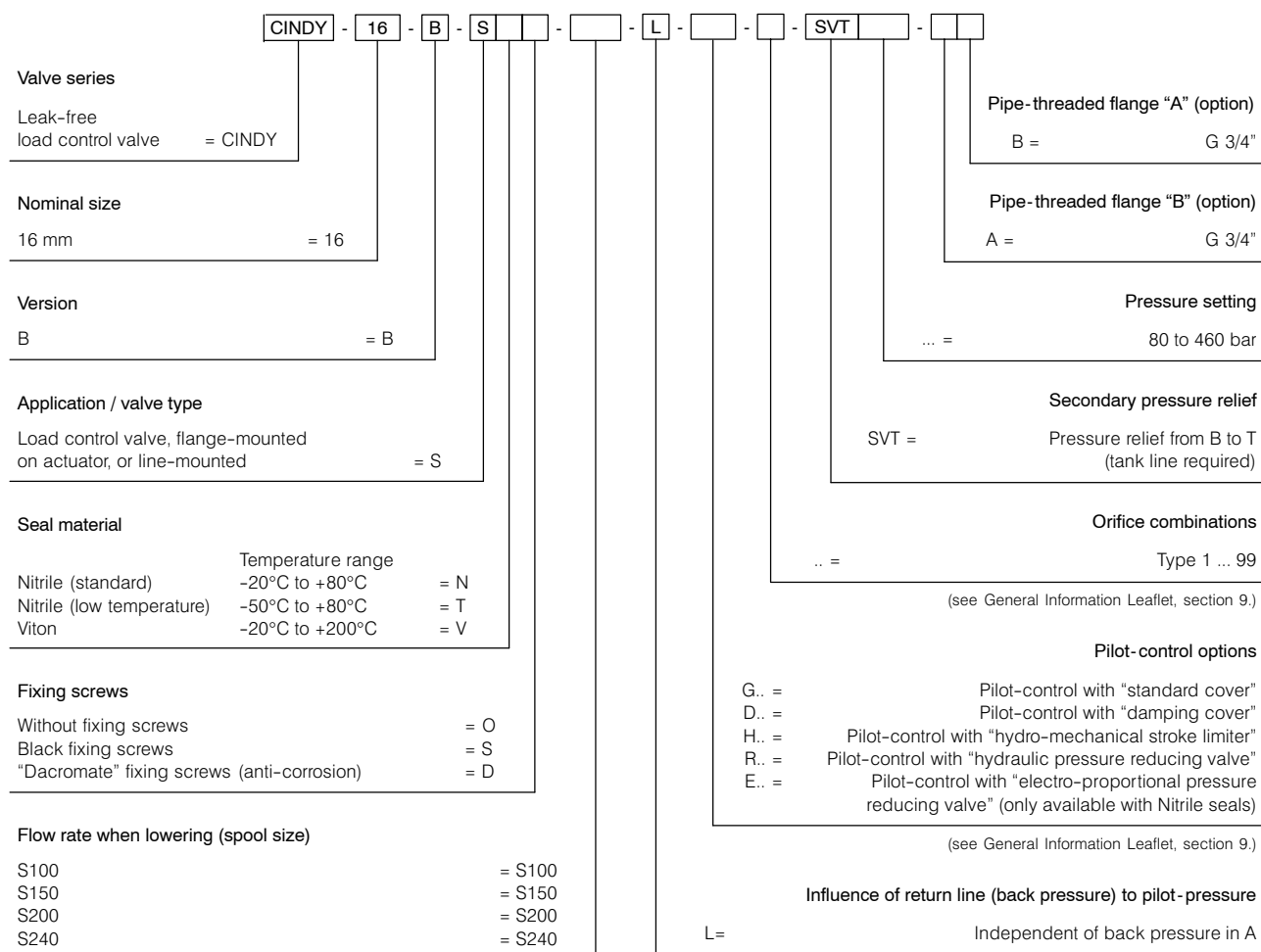
13.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



13.4.3 Opening characteristic of the secondary pressure relief valve



13.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010205.....	300 6010273.....	300 6010319.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-S-N-2-G 300.0306747	Service packages Cindy 16-B-S-V-2-G 300.0306785	Service packages Cindy 16-B-S-T-2-G 300.0306824
Pilot-control types D, H Art. No.	Service packages Cindy 16-B-S-N-2-D 300.0306748	Service packages Cindy 16-B-S-V-2-D 300.0306786	Service packages Cindy 16-B-S-T-2-D 300.0306825
Pilot-control type R Art. No.	Service packages Cindy 16-B-S-N-2-R 300.0306749	Service packages Cindy 16-B-S-V-2-R 300.0306787	Service packages Cindy 16-B-S-T-2-R 300.0306826
Pilot-control type E Art. No.	Service packages Cindy 16-B-S-N-2-E 300.0306750	Only available with Nitrile seals	Only available with Nitrile seals
Optional A flange	300.0306803	300.0306806	300.0306809

14. Description Cindy-16-B-S-.....-A-.....-SVZ...

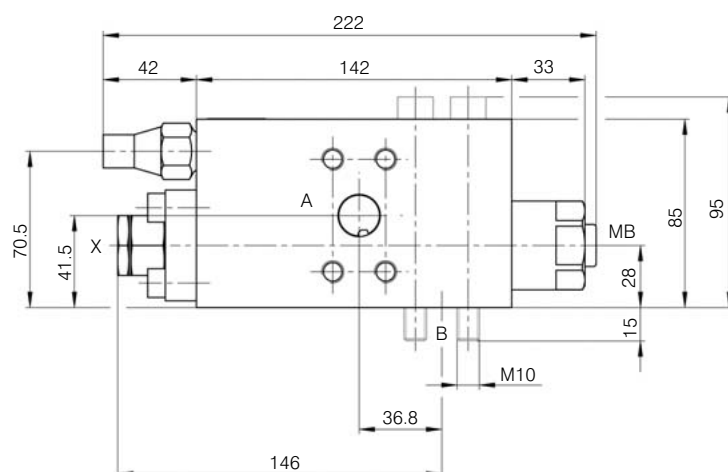
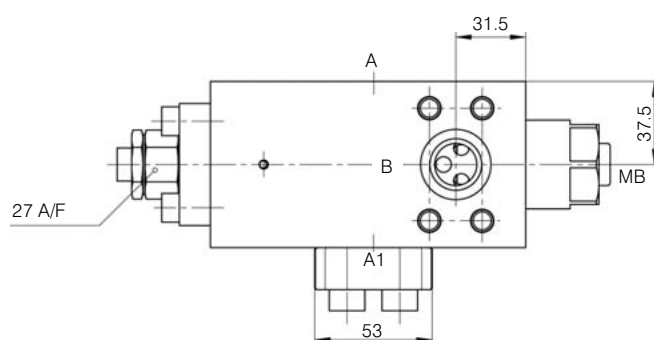
14.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 3/4" 6000 psi	-
B	SAE 3/4" 6000 psi	3.53x24.99
X, MB	G 1/4"	-

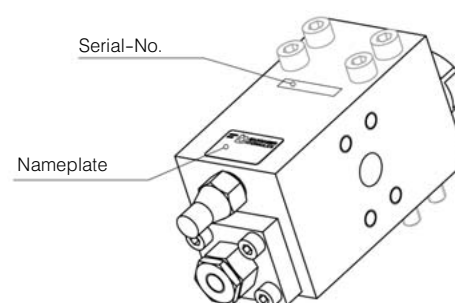
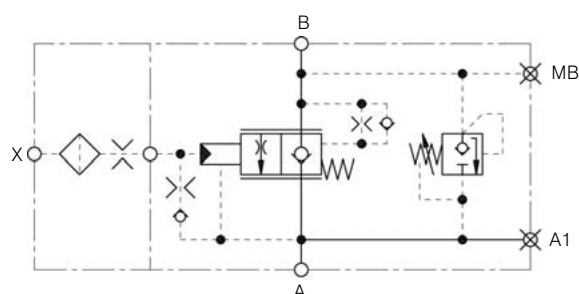
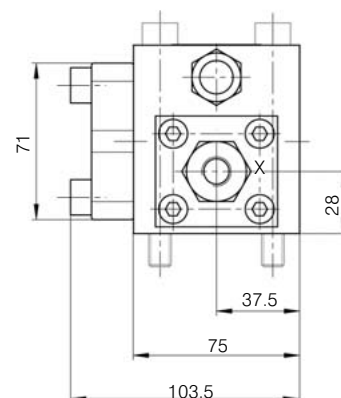
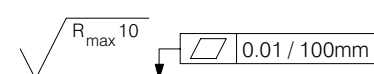
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

14.2 Standard model

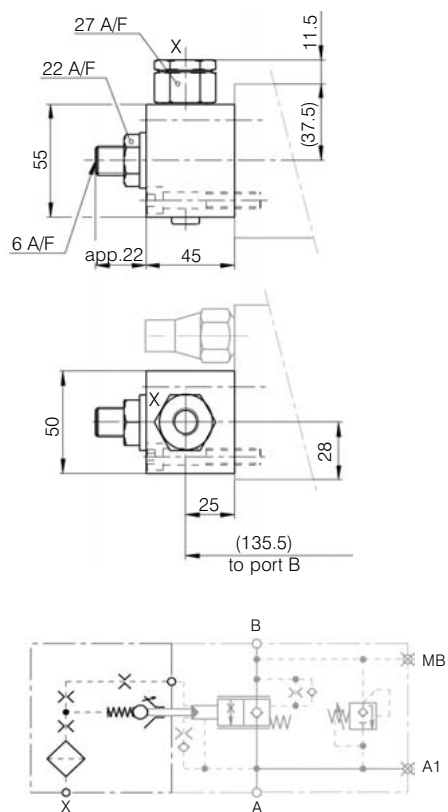


Required quality of the mating surface:

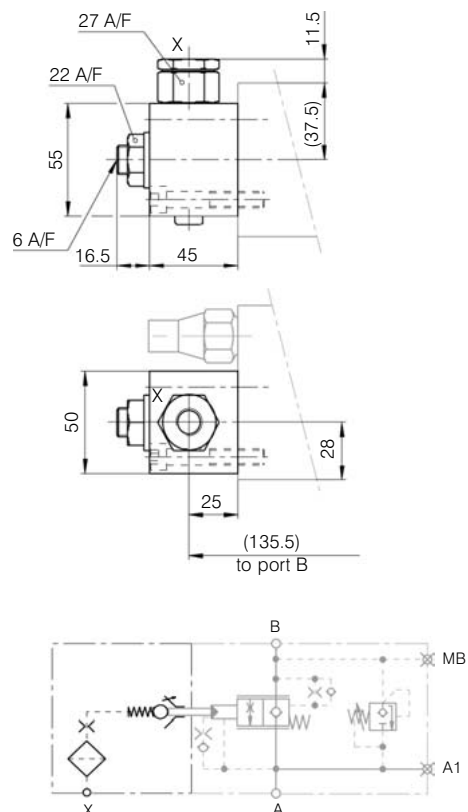


14.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

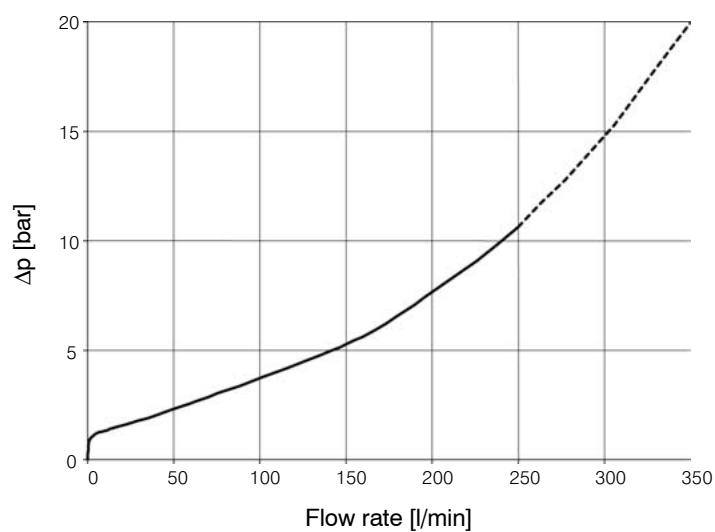


Pilot-control with the "hydro-mechanical stroke limiter (H)

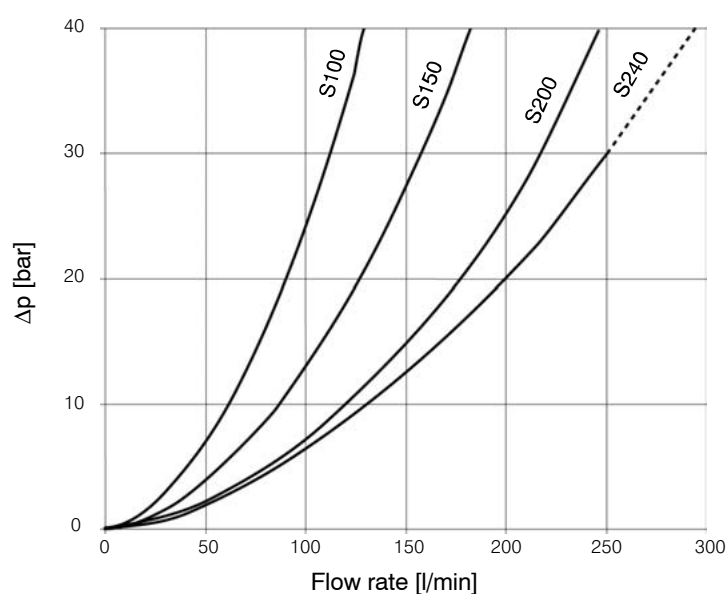


14.4 Characteristic curves (measured at 33 mm²/s [cSt])

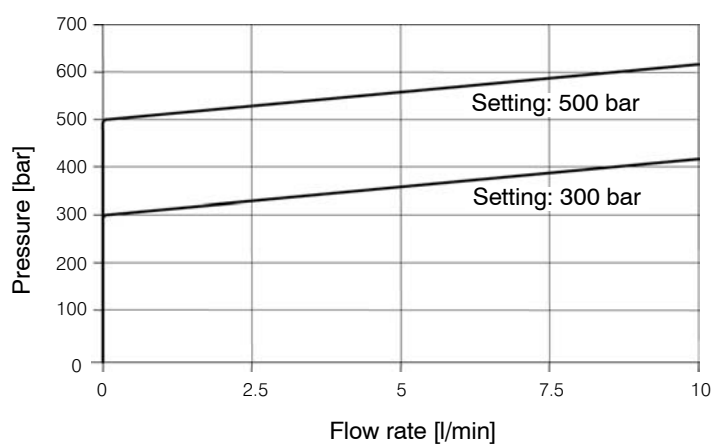
14.4.1 Δp from A $\rightarrow$ B (Lifting)



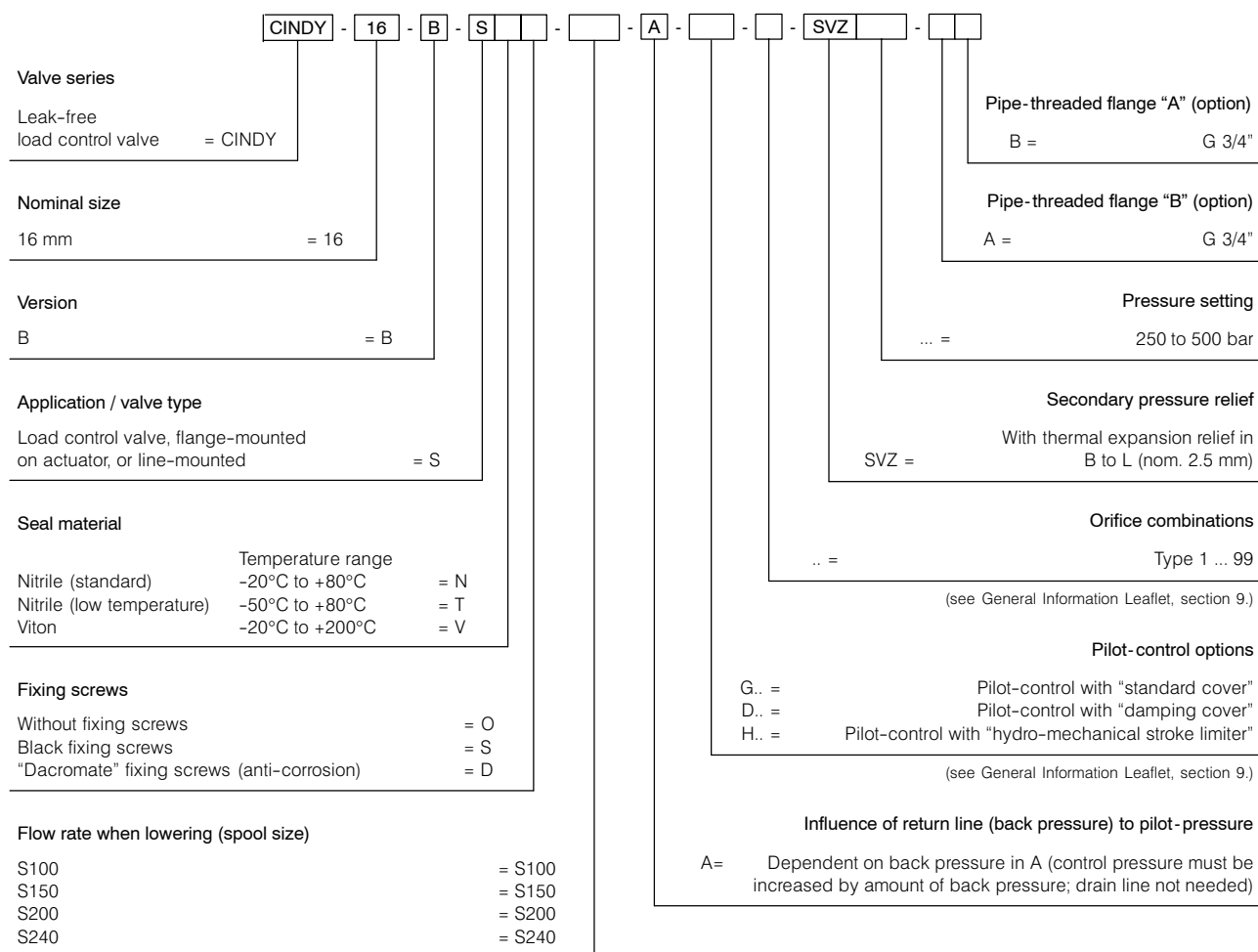
14.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



14.4.3 Opening characteristic of the thermal expansion pressure relief (UVP-4)



14.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010206.....	300 6010274.....	300 6010320.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-S-N-1-G 300.0306743	Service packages Cindy 16-B-S-V-1-G 300.0306782	Service packages Cindy 16-B-S-T-1-G 300.0306821
Pilot-control types D, H Art. No.	Service packages Cindy 16-B-S-N-1-D 300.0306744	Service packages Cindy 16-B-S-V-1-D 300.0306783	Service packages Cindy 16-B-S-T-1-D 300.0306822
Optional A flange	300.0306803	300.0306806	300.0306809
Optional SVZ	250-350 bar 300.6010408	250-350 bar 300.6010409	250-350 bar 300.6010410
	350-500 bar 300.6010411	350-500 bar 300.6010412	350-500 bar 300.6010413

15. Description Cindy-16-B-S-.....-L-....-SVZ...

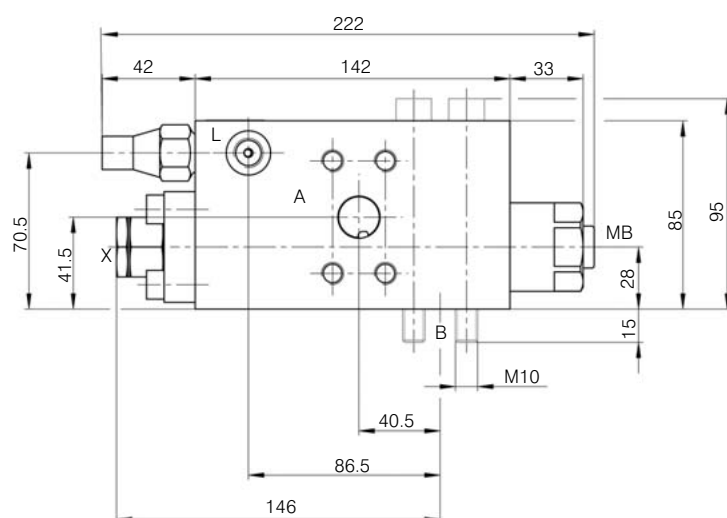
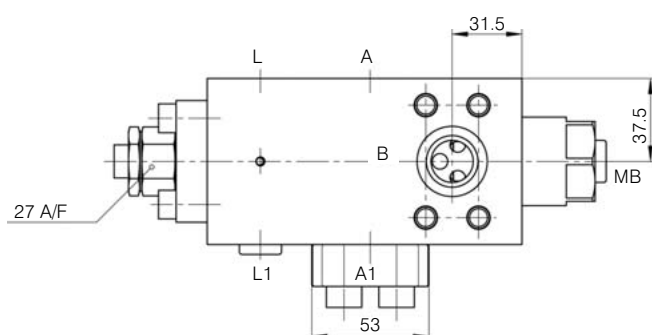
15.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 3/4" 6000 psi	-
B	SAE 3/4" 6000 psi	3.53x24.99
X, L, L1, L2, MB, MX	G 1/4"	-

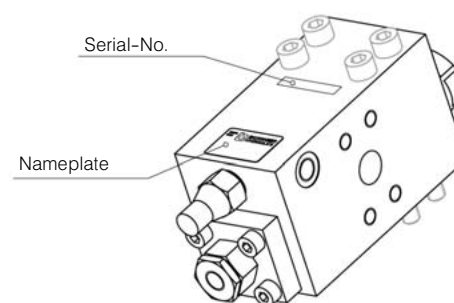
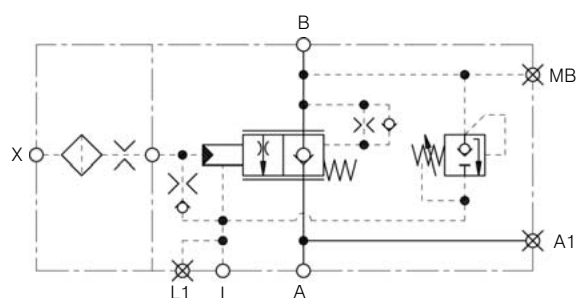
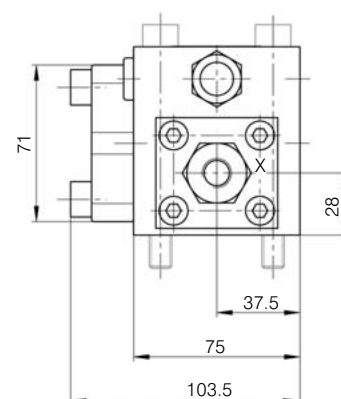
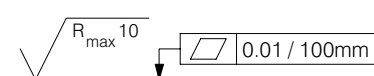
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

15.2 Standard model

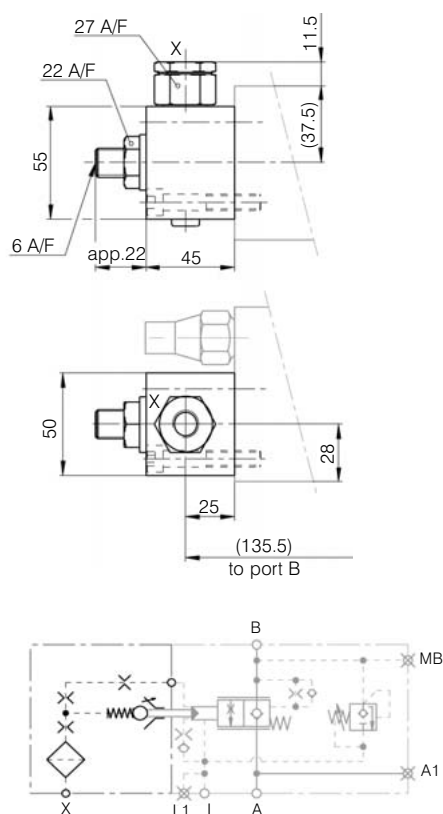


Required quality of the mating surface:

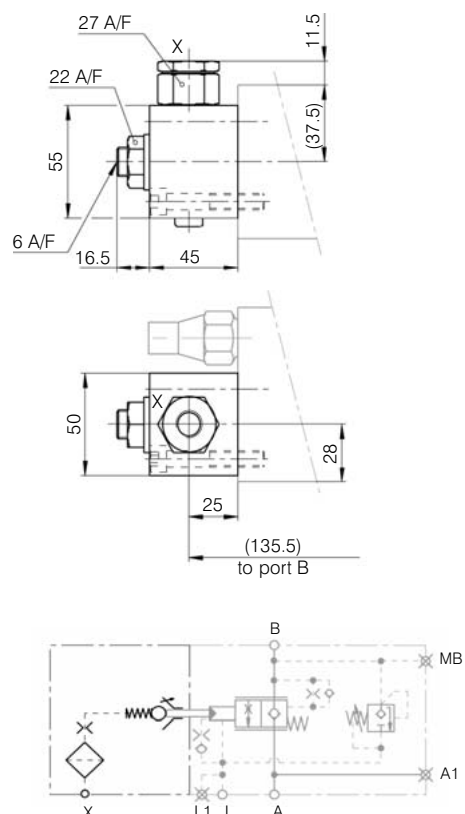


15.3 Pilot-control variants (each can be rotated through 180°)

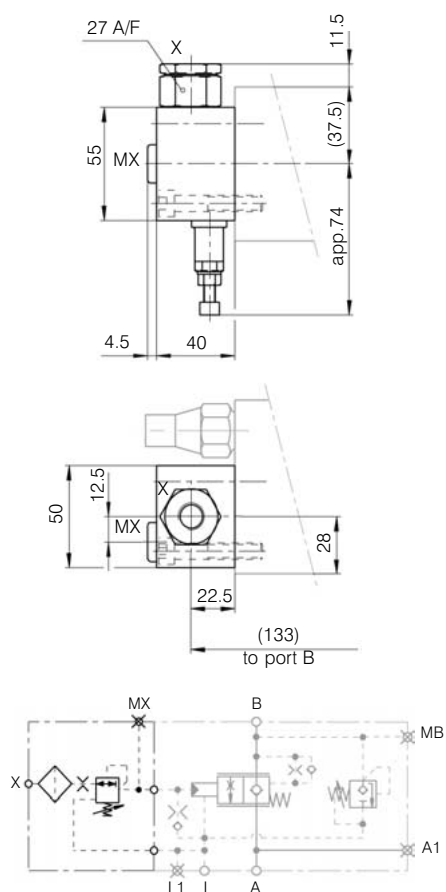
Pilot-control with the "damping cover" (D)



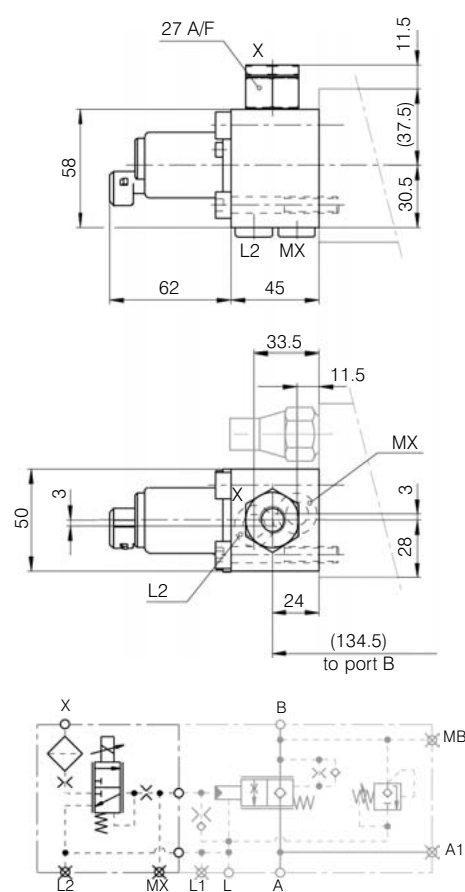
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

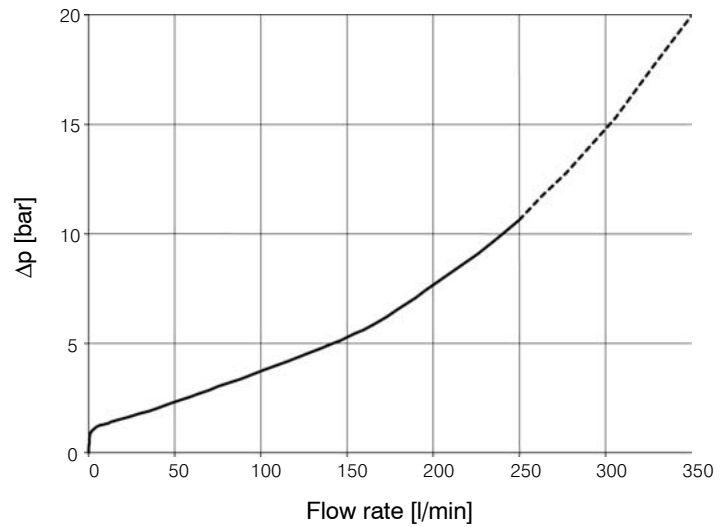


Pilot-control with the "electro-mechanical pressure reducing valve" (E)

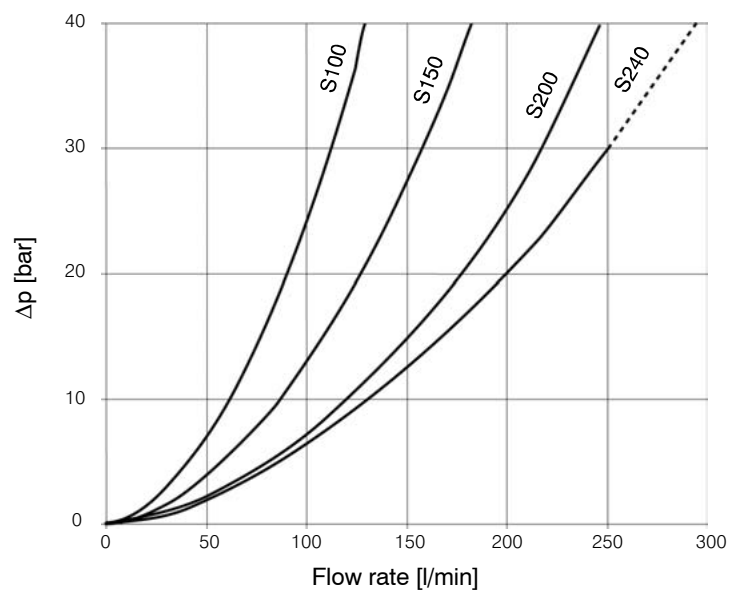


15.4 Characteristic curves (measured at 33 mm²/s [cSt])

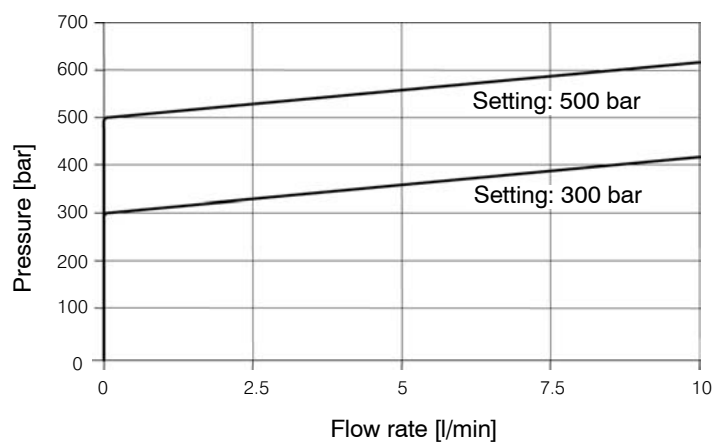
15.4.1 Δp from A $\rightarrow$ B (Lifting)



15.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



15.4.3 Opening characteristic of the thermal expansion pressure relief (UVP-4)



16. Description Cindy-16-B-S-.....-L-....-... (load pressure-compensated)

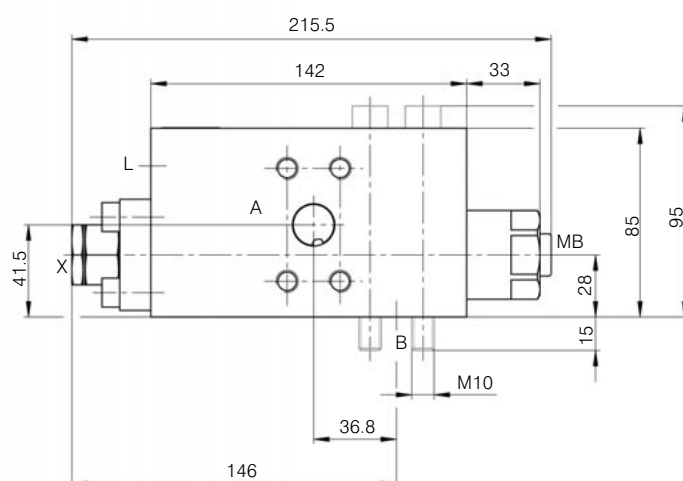
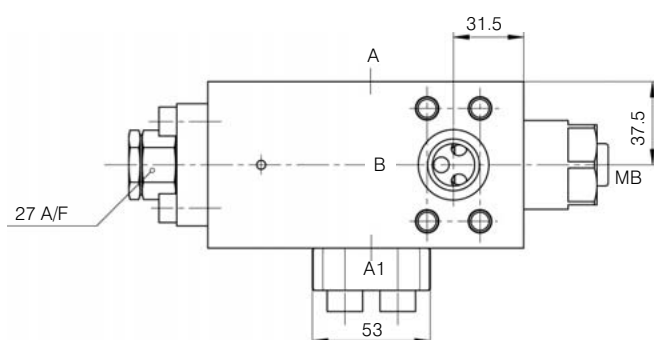
16.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 3/4" 6000 psi	-
B	SAE 3/4" 6000 psi	3.53x24.99
X, L, L2, MB, MX	G 1/4"	-

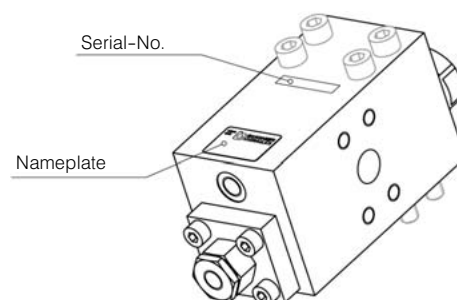
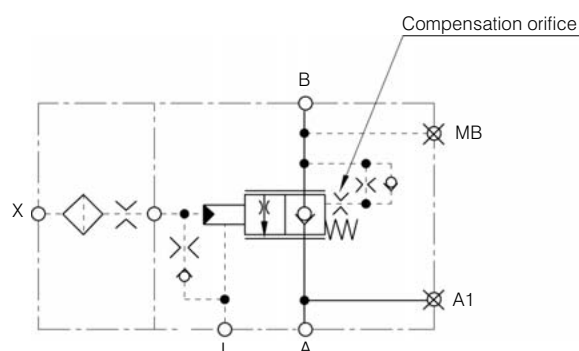
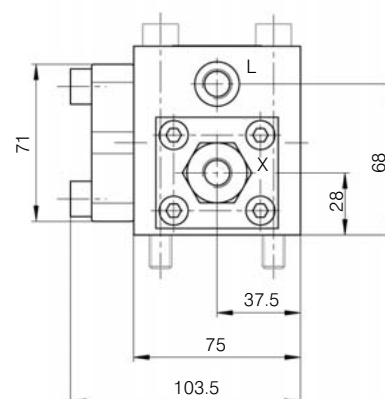
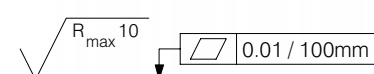
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

16.2 Standard model

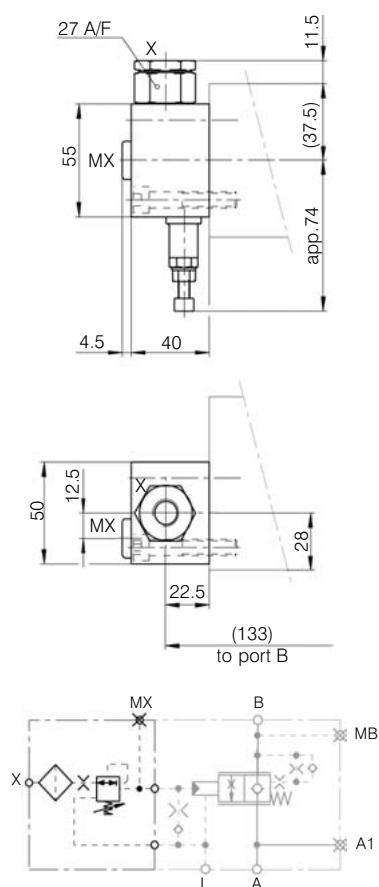


Required quality of the mating surface:

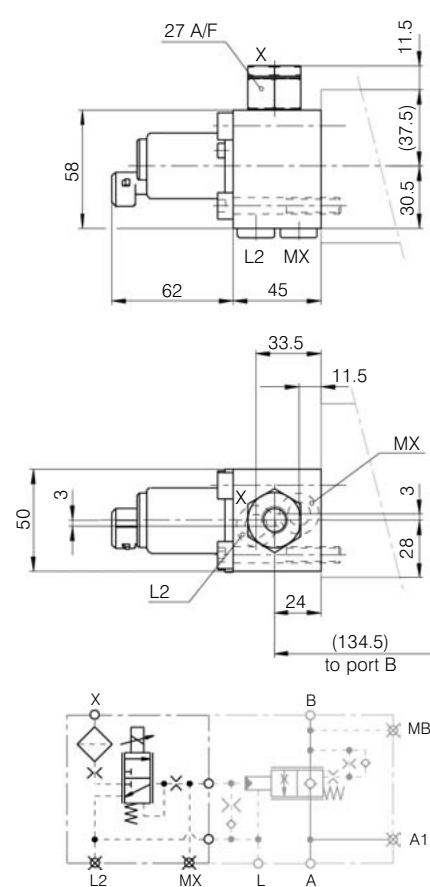


16.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve" (R)

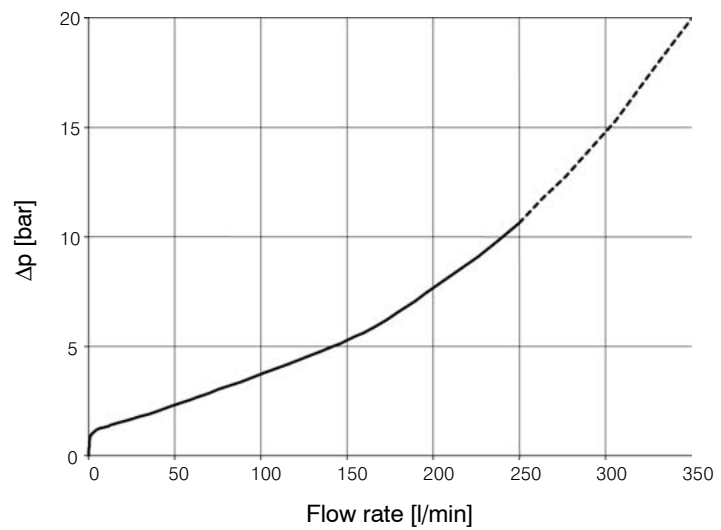


Pilot-control with the "electro-proportional pressure reducing valve" (E)

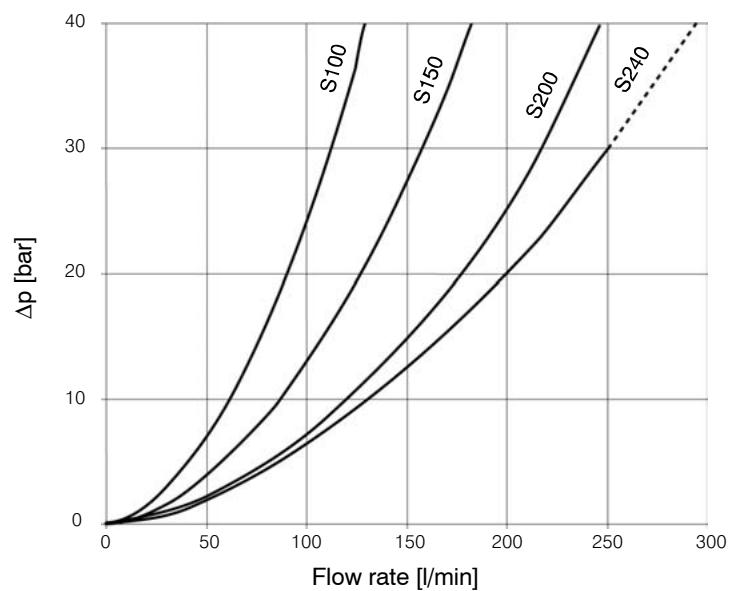


16.4 Characteristic curves (measured at 33 mm²/s [cSt])

16.4.1 Δp from A $\rightarrow$ B (Lifting)



16.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



17. Description Cindy-16-B-S-.....-L-.....-SVA... (load pressure-compensated)

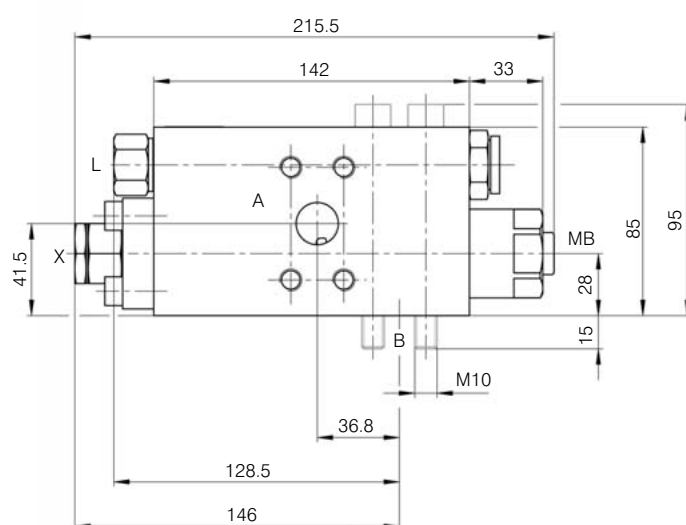
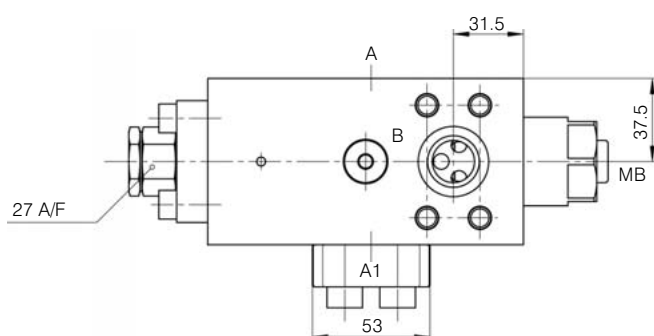
17.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 3/4" 6000 psi	-
B	SAE 3/4" 6000 psi	3.53x24.99
X, L, L2, MB, MX	G 1/4"	-

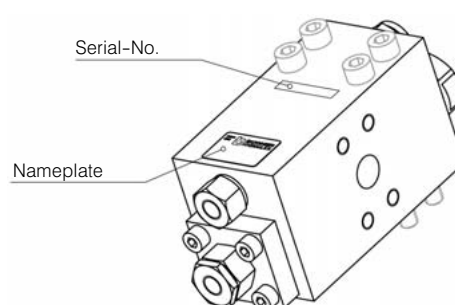
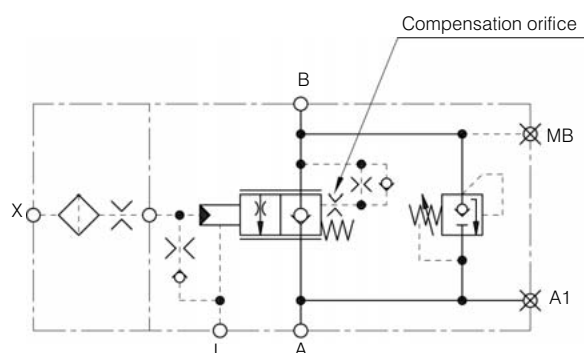
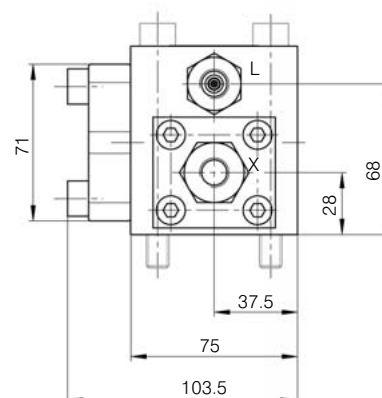
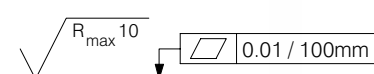
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

17.2 Standard model

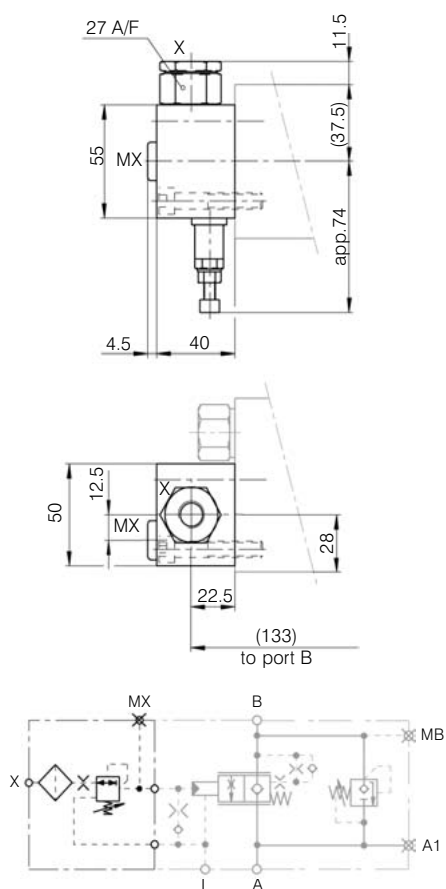


Required quality of the mating surface:

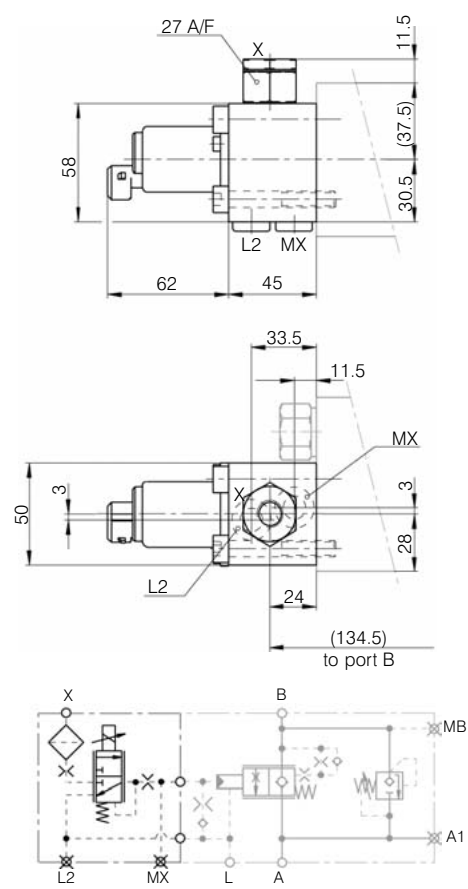


17.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve" (R)

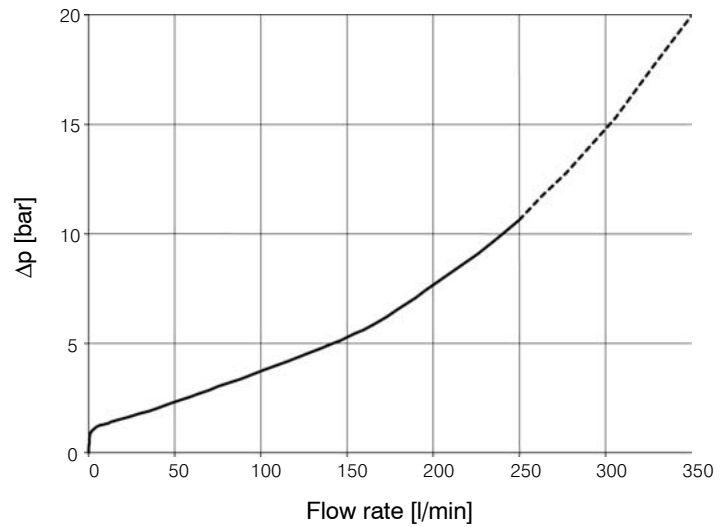


Pilot-control with the "electro-proportional pressure reducing valve" (E)

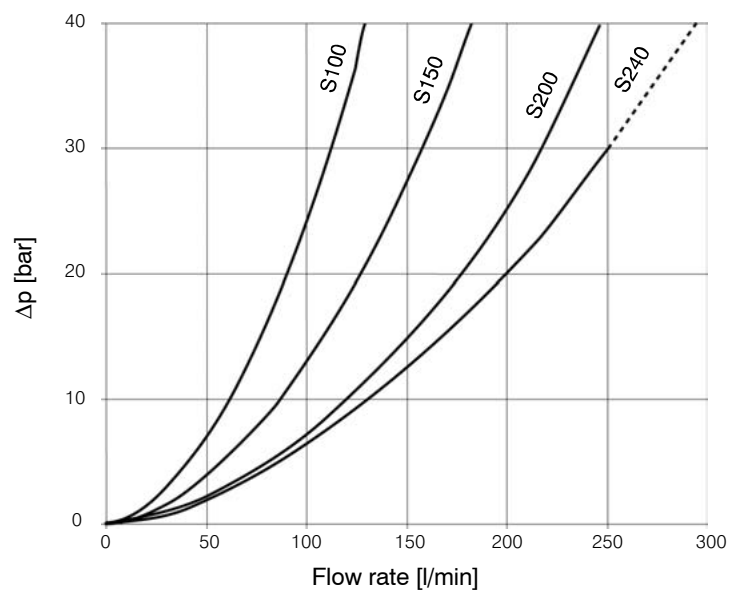


17.4 Characteristic curves (measured at 33 mm²/s [cSt])

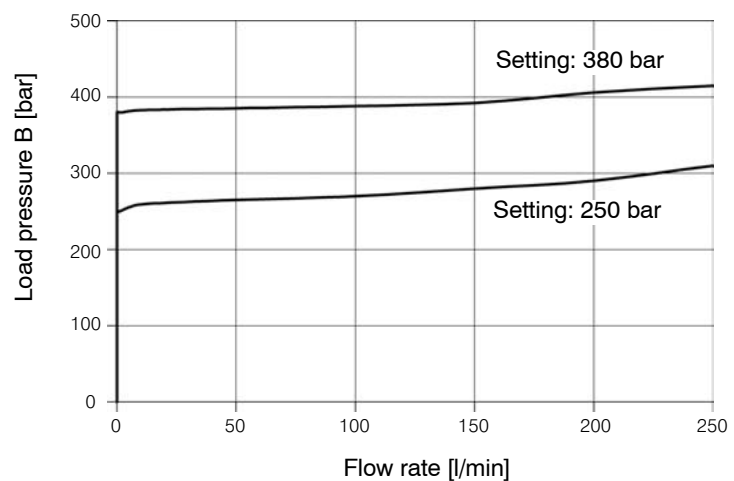
17.4.1 Δp from A $\rightarrow$ B (Lifting)



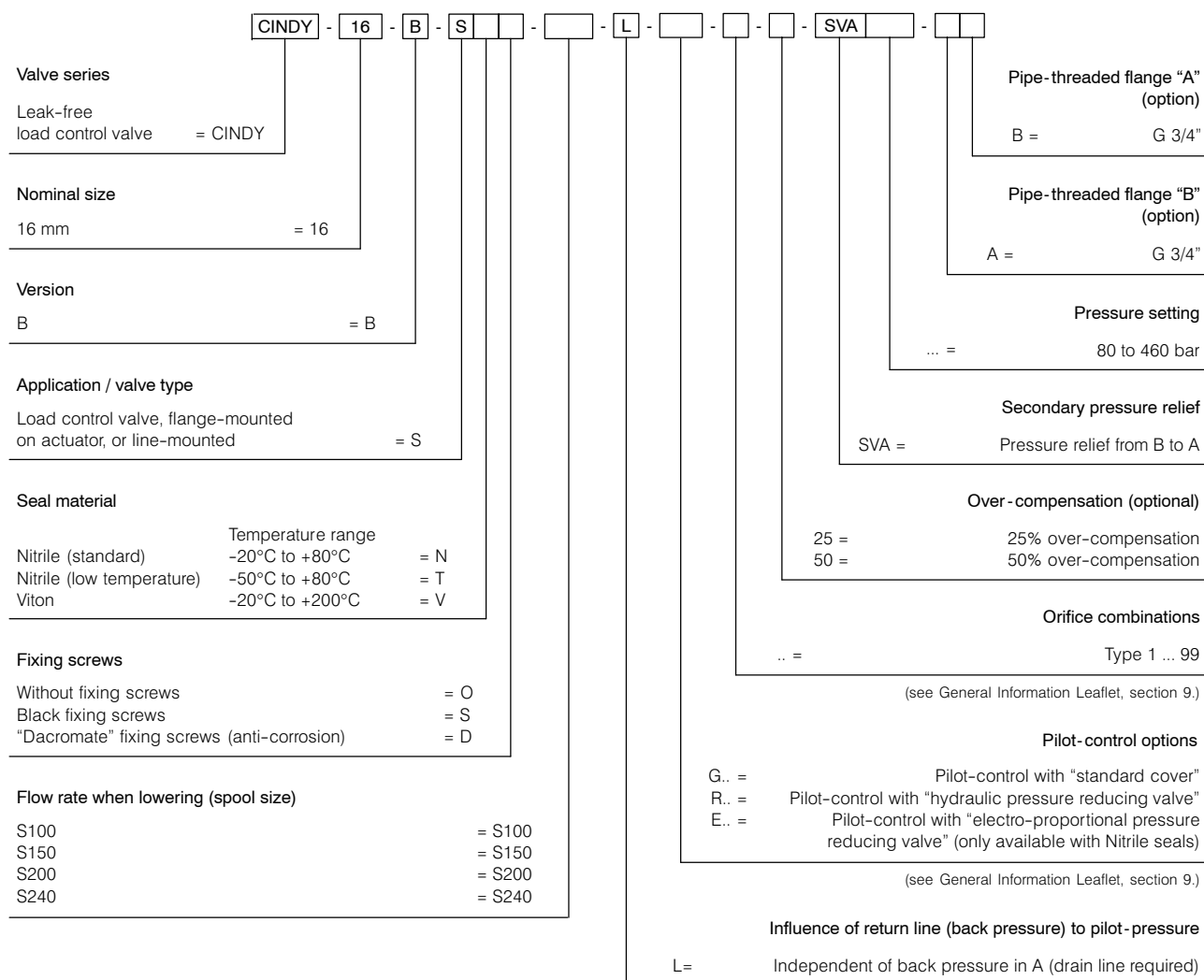
17.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



17.4.3 Opening characteristic of the secondary pressure relief valve



17.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010209.....	300 6010277.....	300 6010323.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-S-N-1-G 300.0306743	Service packages Cindy 16-B-S-V-1-G 300.0306782	Service packages Cindy 16-B-S-T-1-G 300.0306821
Pilot-control type R Art. No.	Service packages Cindy 16-B-S-N-1-R 300.0306745	Service packages Cindy 16-B-S-V-1-R 300.0306784	Service packages Cindy 16-B-S-T-1-R 300.0306823
Pilot-control type E Art. No.	Service packages Cindy 16-B-S-N-1-E 300.0306746	Only available with Nitrile seals	
Optional A flange	300.0306803	300.0306806	300.0306809

18. Description Cindy-16-B-S-.....-L-.....-SVT... (load pressure-compensated)

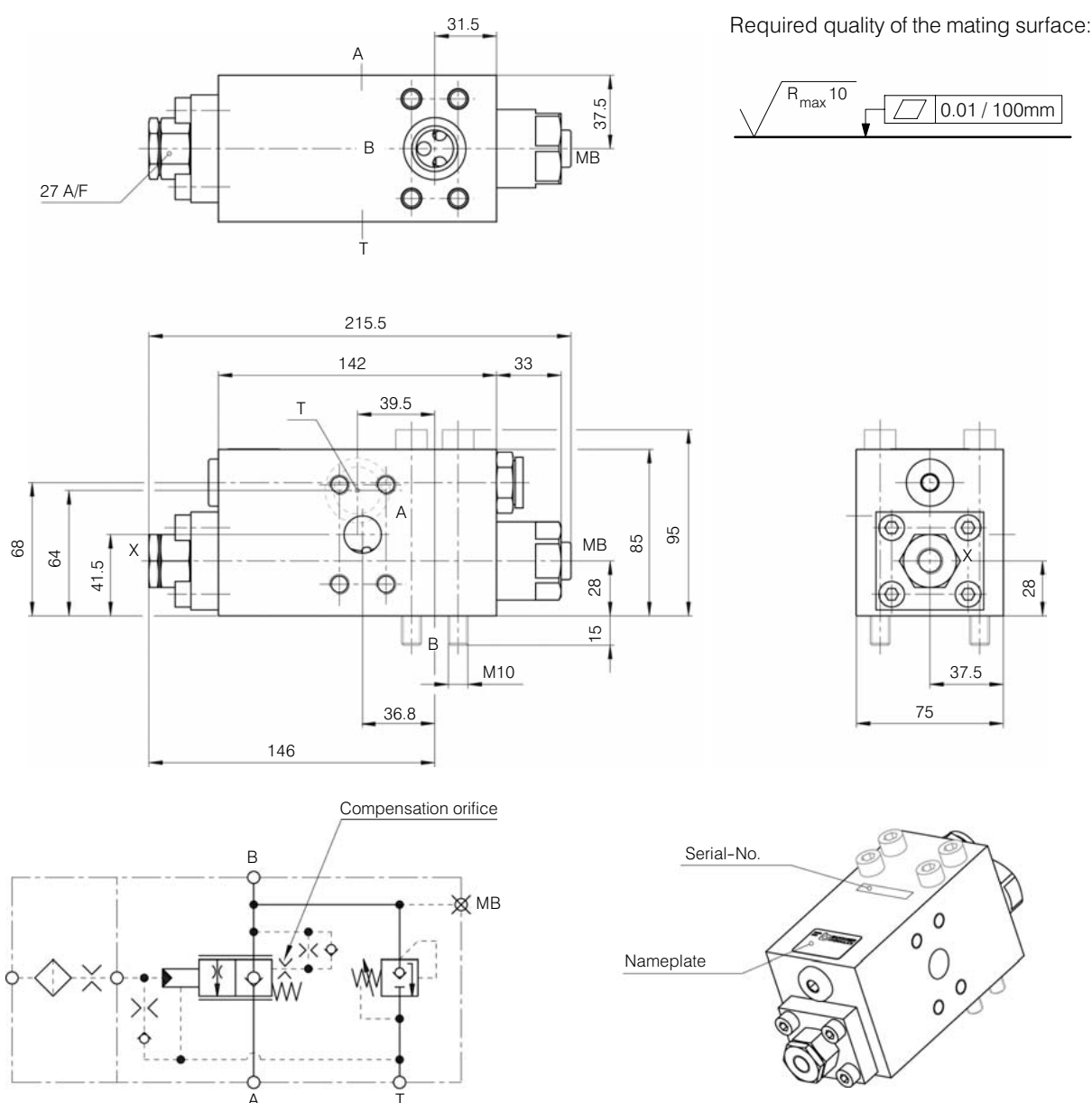
18.1 Port sizes / weight

Port	Port size	O-Ring
A	SAE 3/4" 6000 psi	-
B	SAE 3/4" 6000 psi	3.53x24.99
T	G 3/4"	-
X, L2, MB, MX	G 1/4"	-

For tightening torques, see Cindy General Information leaflet, section 6.

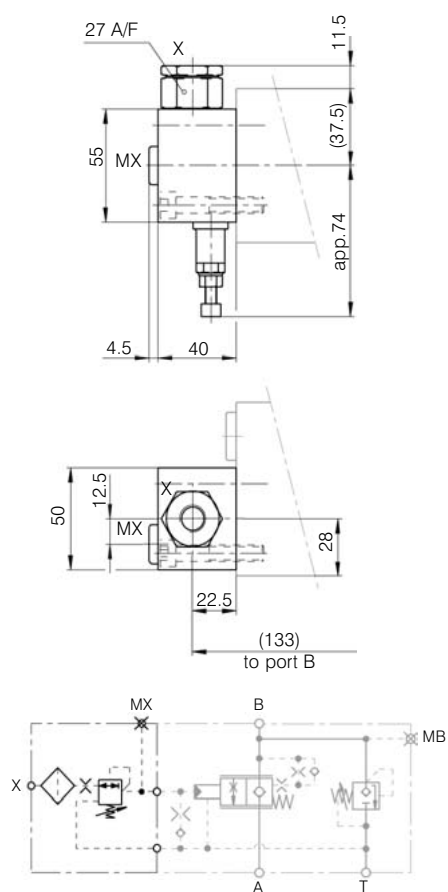
Weight: approx. 7.6 kg

18.2 Standard model

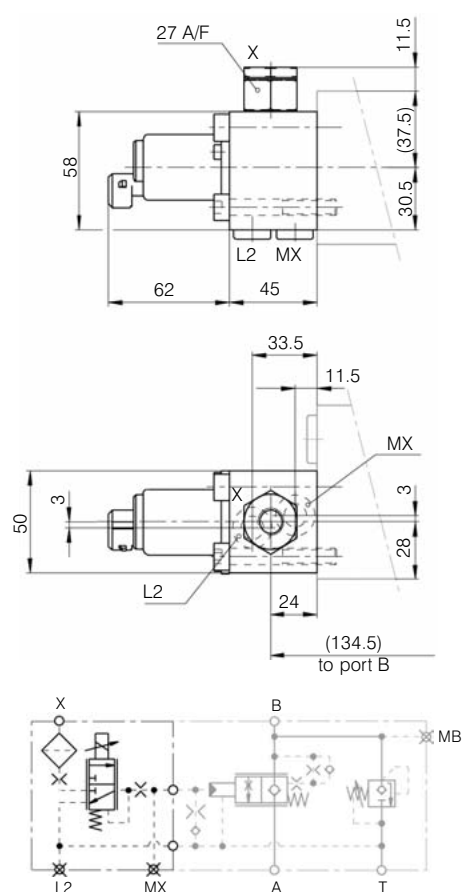


18.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve (R)

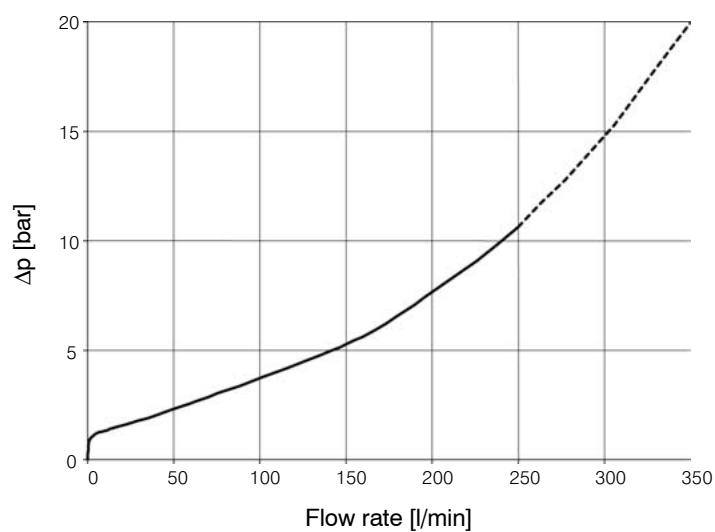


Pilot-control with the "electro-proportional pressure reducing valve" (E)

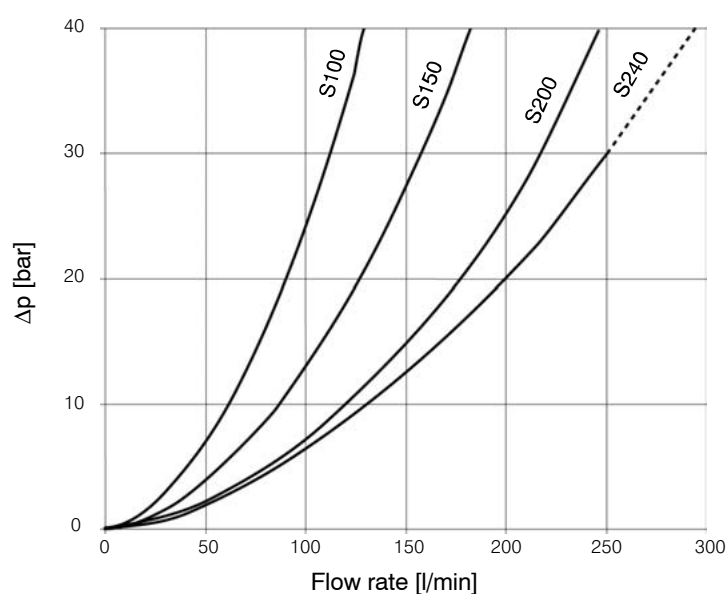


18.4 Characteristic curves (measured at 33 mm²/s [cSt])

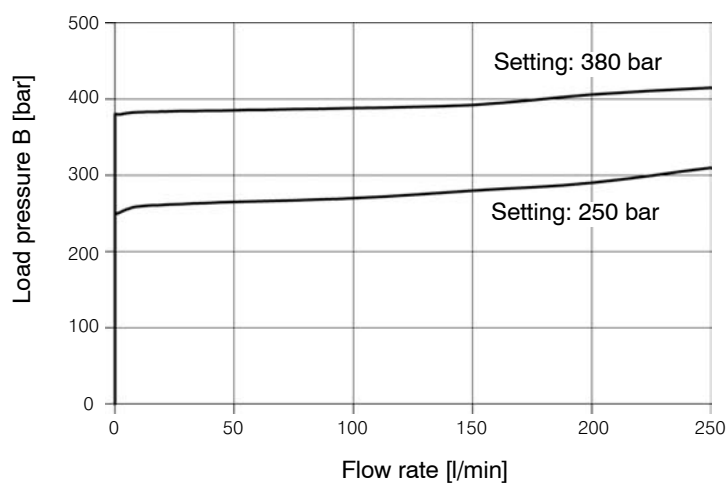
18.4.1 Δp from A $\rightarrow$ B (Lifting)



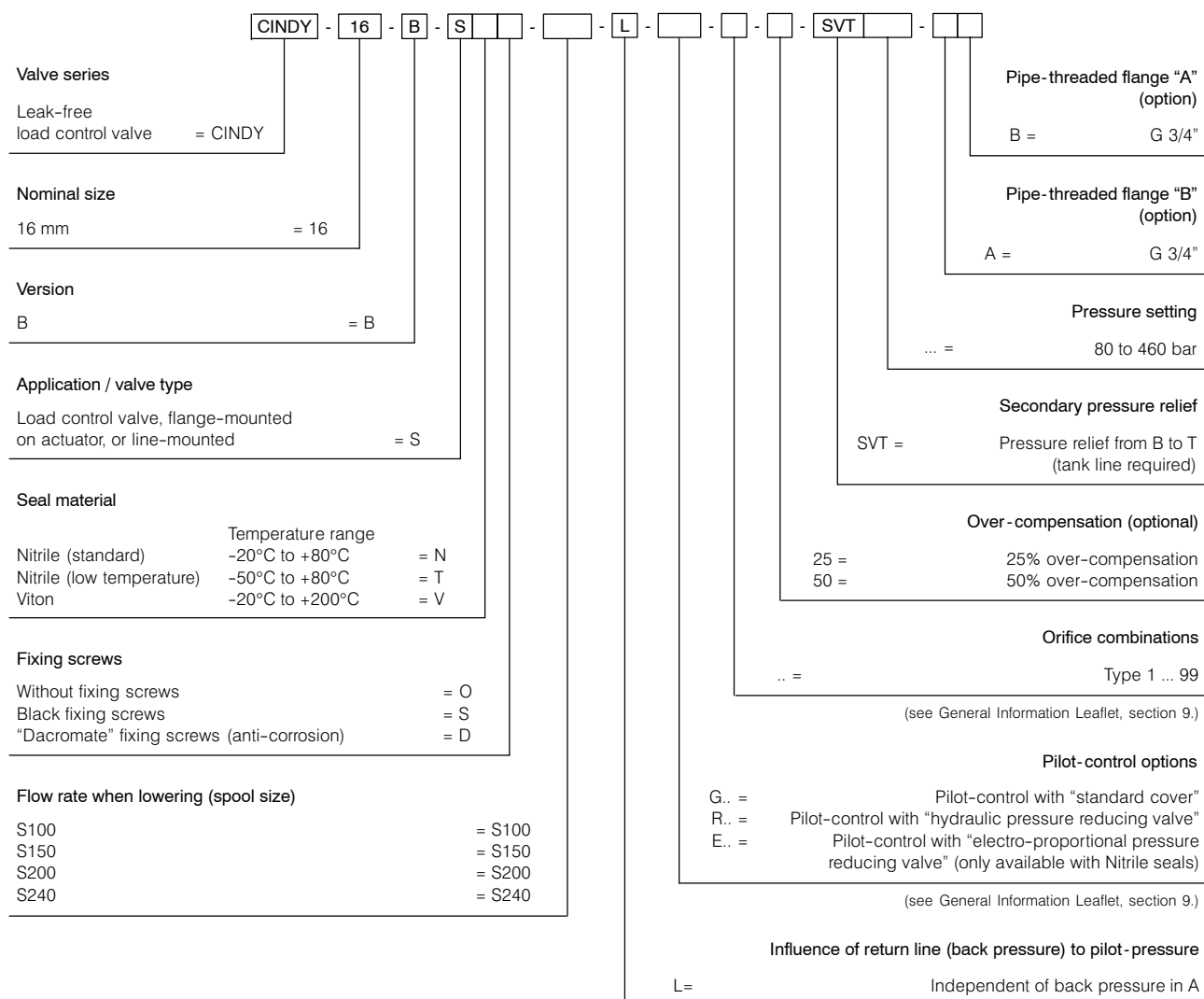
18.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



18.4.3 Opening characteristic of the secondary pressure relief valve



18.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010210.....	300 6010278.....	300 6010324.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-S-N-2-G 300.0306747	Service packages Cindy 16-B-S-V-2-G 300.0306785	Service packages Cindy 16-B-S-T-2-G 300.0306824
Pilot-control type R Art. No.	Service packages Cindy 16-B-S-N-2-R 300.0306749	Service packages Cindy 16-B-S-V-2-R 300.0306787	Service packages Cindy 16-B-S-T-2-R 300.0306826
Pilot-control type E Art. No.	Service packages Cindy 16-B-S-N-2-E 300.0306750	Only available with Nitrile seals	
Optional A flange	300.0306803	300.0306806	300.0306809

19. Description Cindy-16-B-S.....-L-----SVZ... (load pressure-compensated)

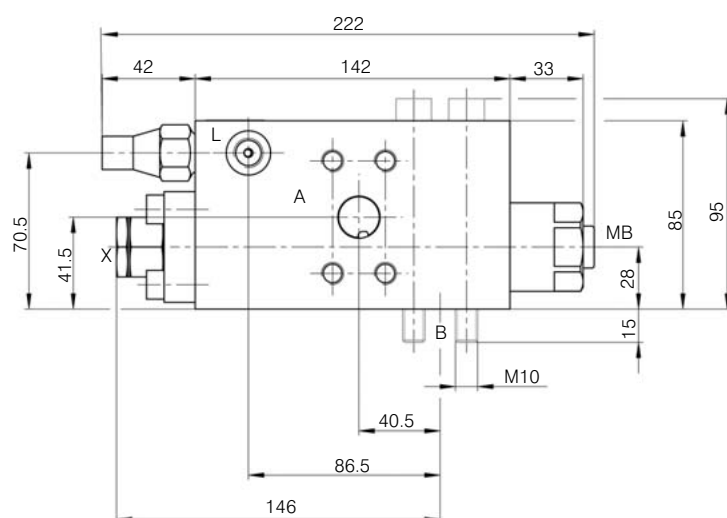
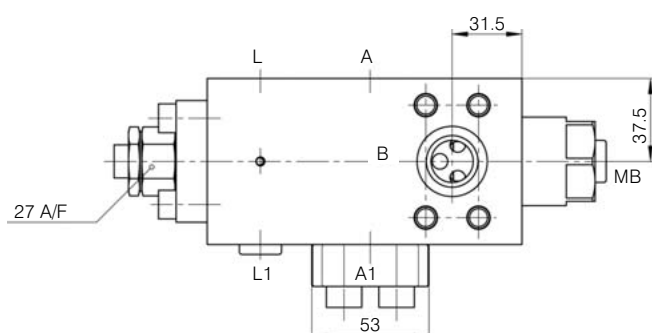
19.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 3/4" 6000 psi	-
B	SAE 3/4" 6000 psi	3.53x24.99
X, L, L1, L2, MB, MX	G 1/4"	-

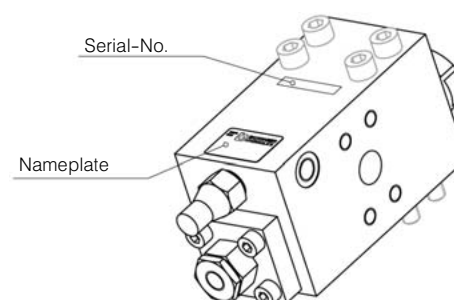
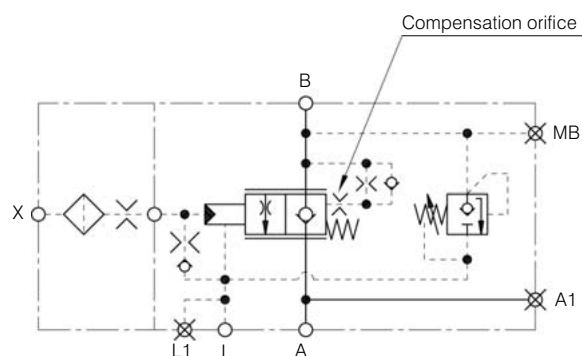
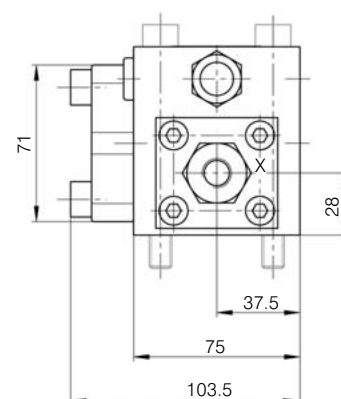
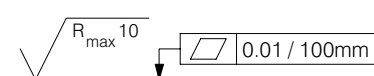
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

19.2 Standard model

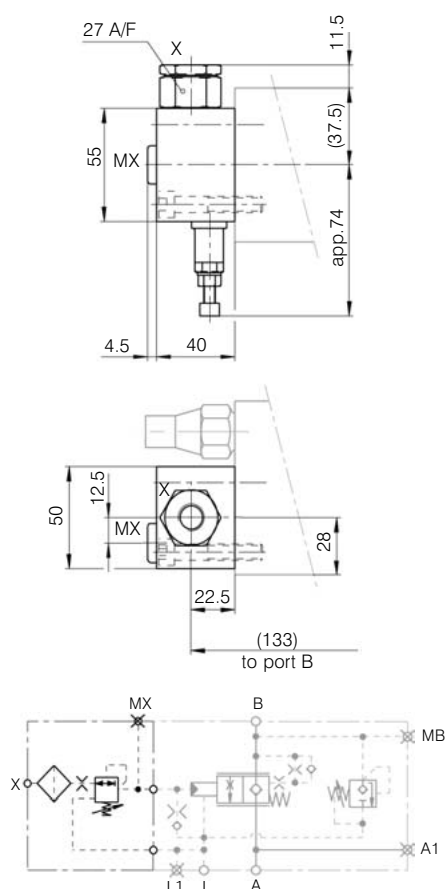


Required quality of the mating surface:

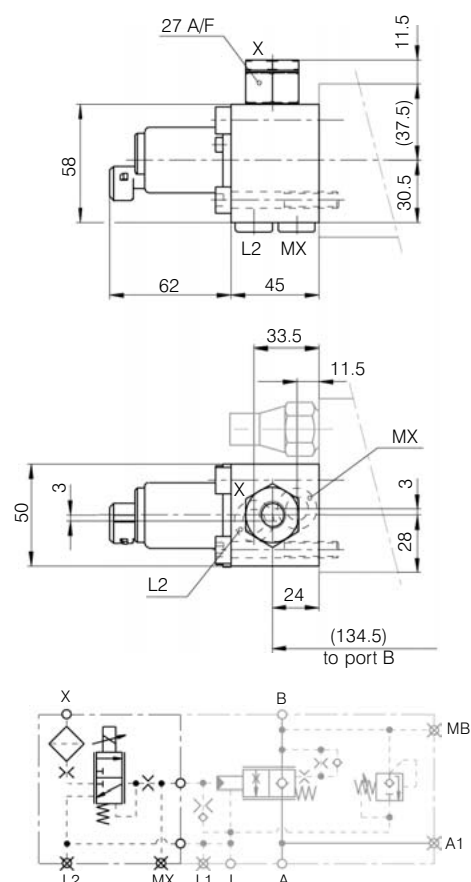


19.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve" (R)

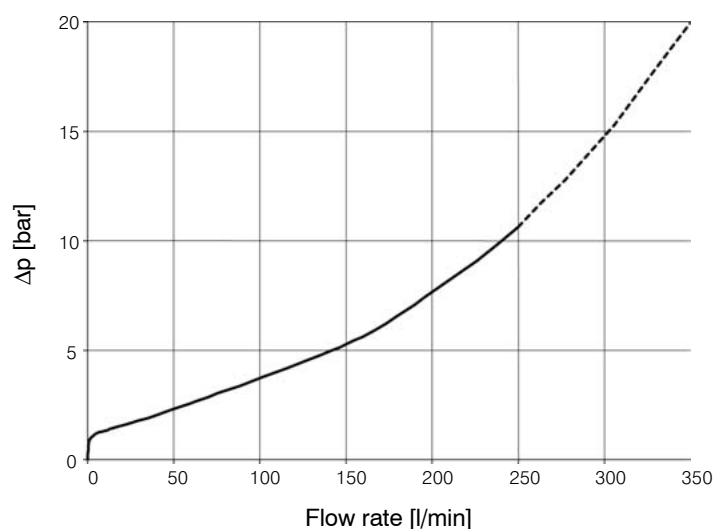


Pilot-control with the "electro-proportional pressure reducing valve" (E)

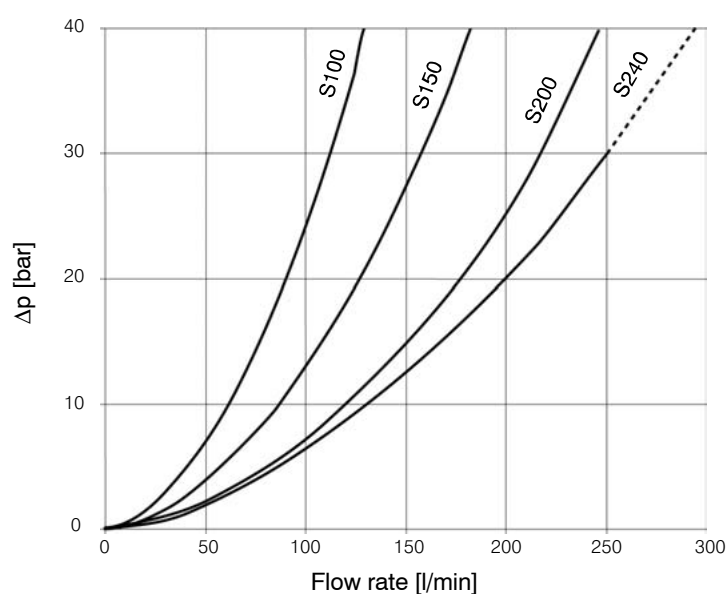


19.4 Characteristic curves (measured at 33 mm²/s [cSt])

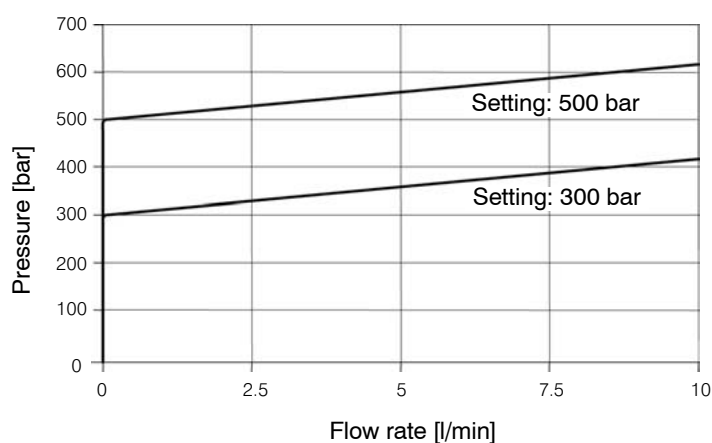
19.4.1 Δp from A $\rightarrow$ B (Lifting)



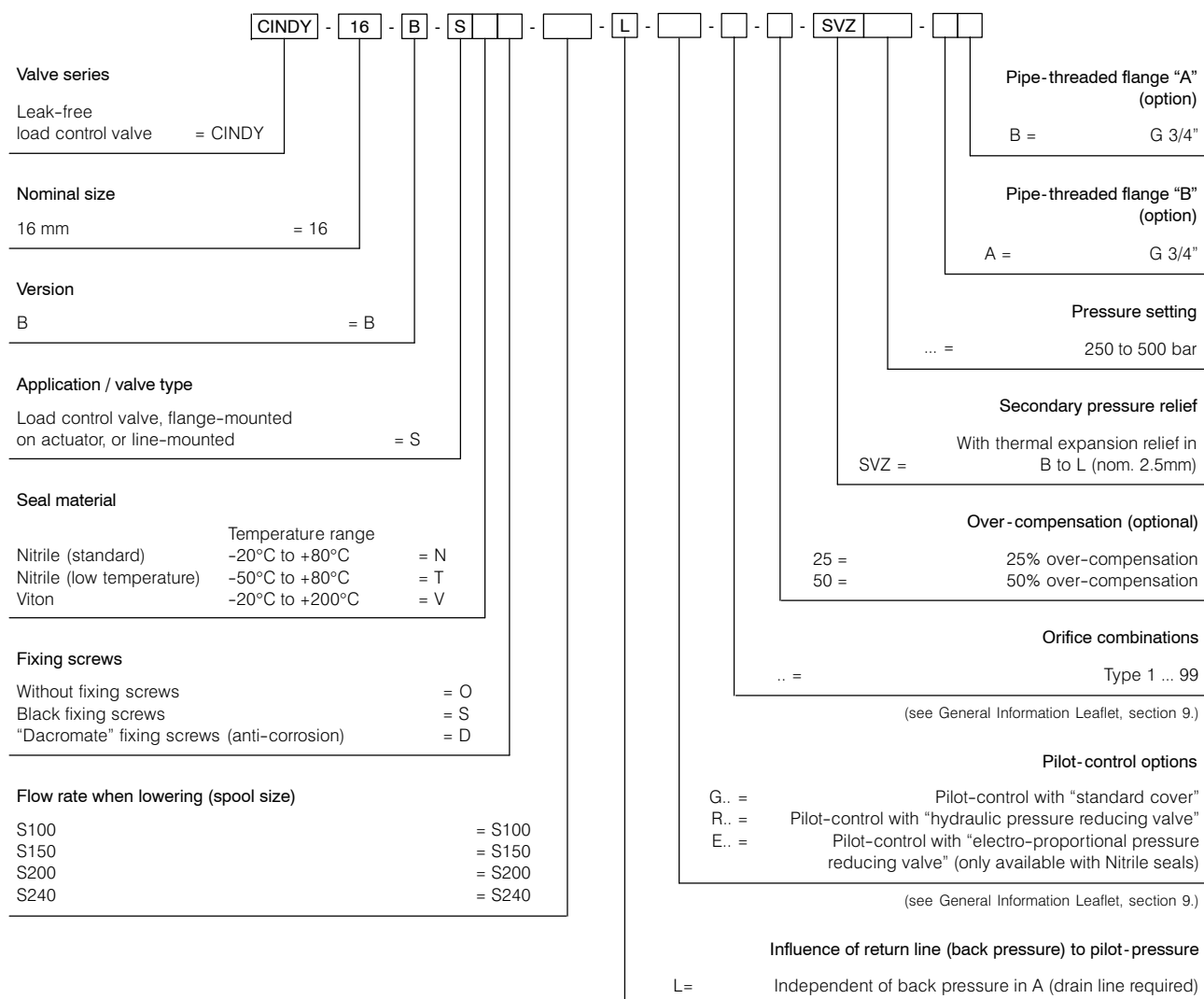
19.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



19.4.3 Opening characteristic of the thermal expansion pressure relief (UVP-4)



19.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010211.....	300 6010279.....	300 6010325.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-S-N-1-G 300.0306743	Service packages Cindy 16-B-S-V-1-G 300.0306782	Service packages Cindy 16-B-S-T-1-G 300.0306821
Pilot-control type R Art. No.	Service packages Cindy 16-B-S-N-1-R 300.0306745	Service packages Cindy 16-B-S-V-1-R 300.0306784	Service packages Cindy 16-B-S-T-1-R 300.0306823
Pilot-control type E Art. No.	Service packages Cindy 16-B-S-N-1-E 300.0306746	Only available with Nitrile seals	
Optional A flange	300.0306803	300.0306806	300.0306809
Optional SVZ	250-350 bar 300.6010408	250-350 bar 300.6010409	250-350 bar 300.6010410
	350-500 bar 300.6010411	350-500 bar 300.6010412	350-500 bar 300.6010413

20. Description Cindy-20-B-S...-A-...-

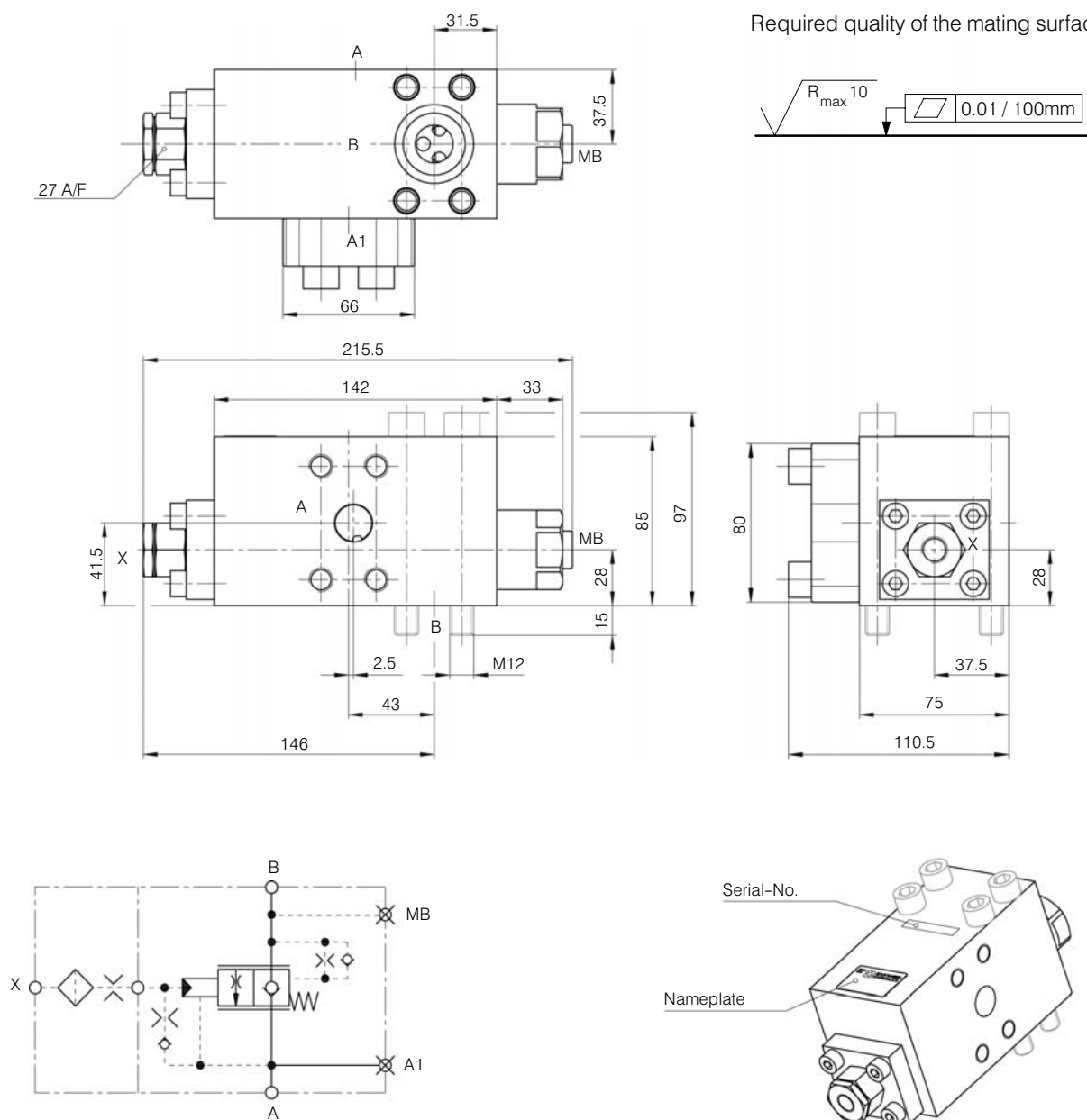
20.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1" 6000 psi	-
B	SAE 1" 6000 psi	3.53x32.92
X, MB	G 1/4"	-

For tightening torques, see Cindy General Information leaflet, section 6.

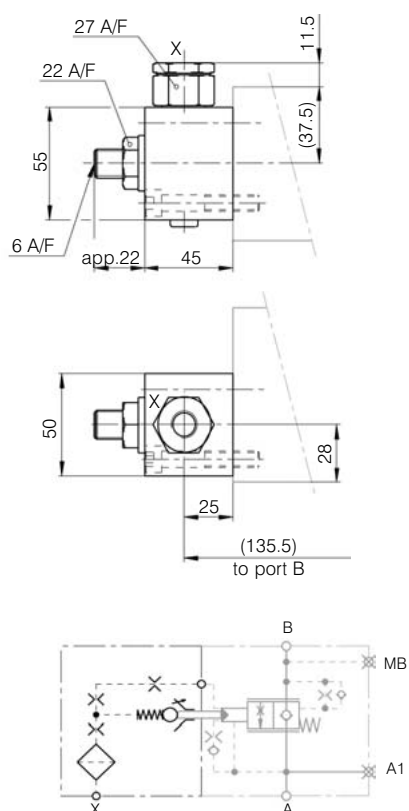
Weight: approx. 7.6 kg

20.2 Standard model

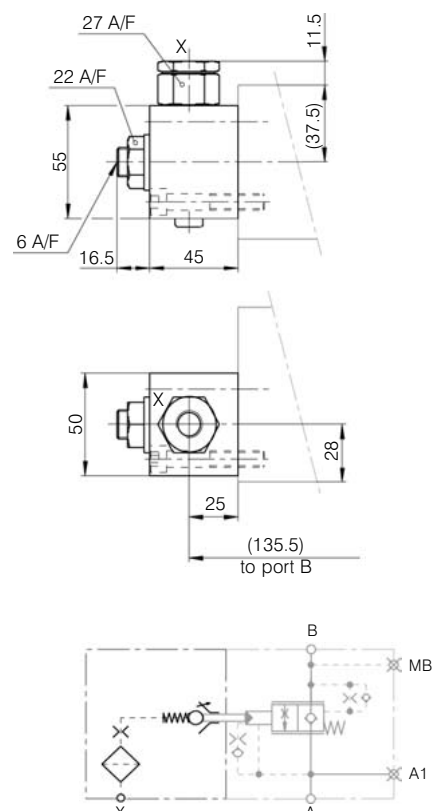


20.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

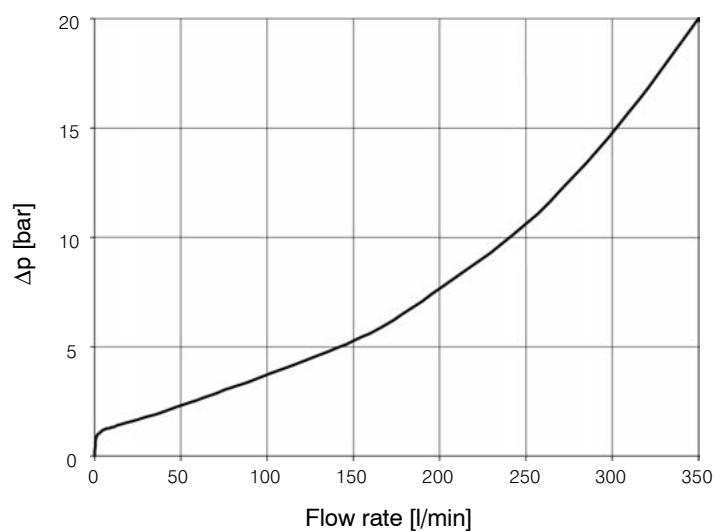


Pilot-control with the "hydro-mechanical stroke limiter" (H)

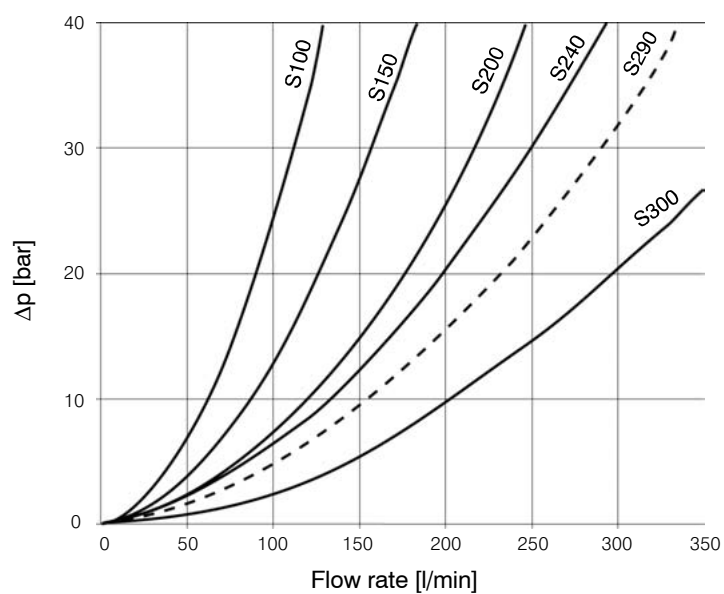


20.4 Characteristic curves (measured at 33 mm²/s [cSt])

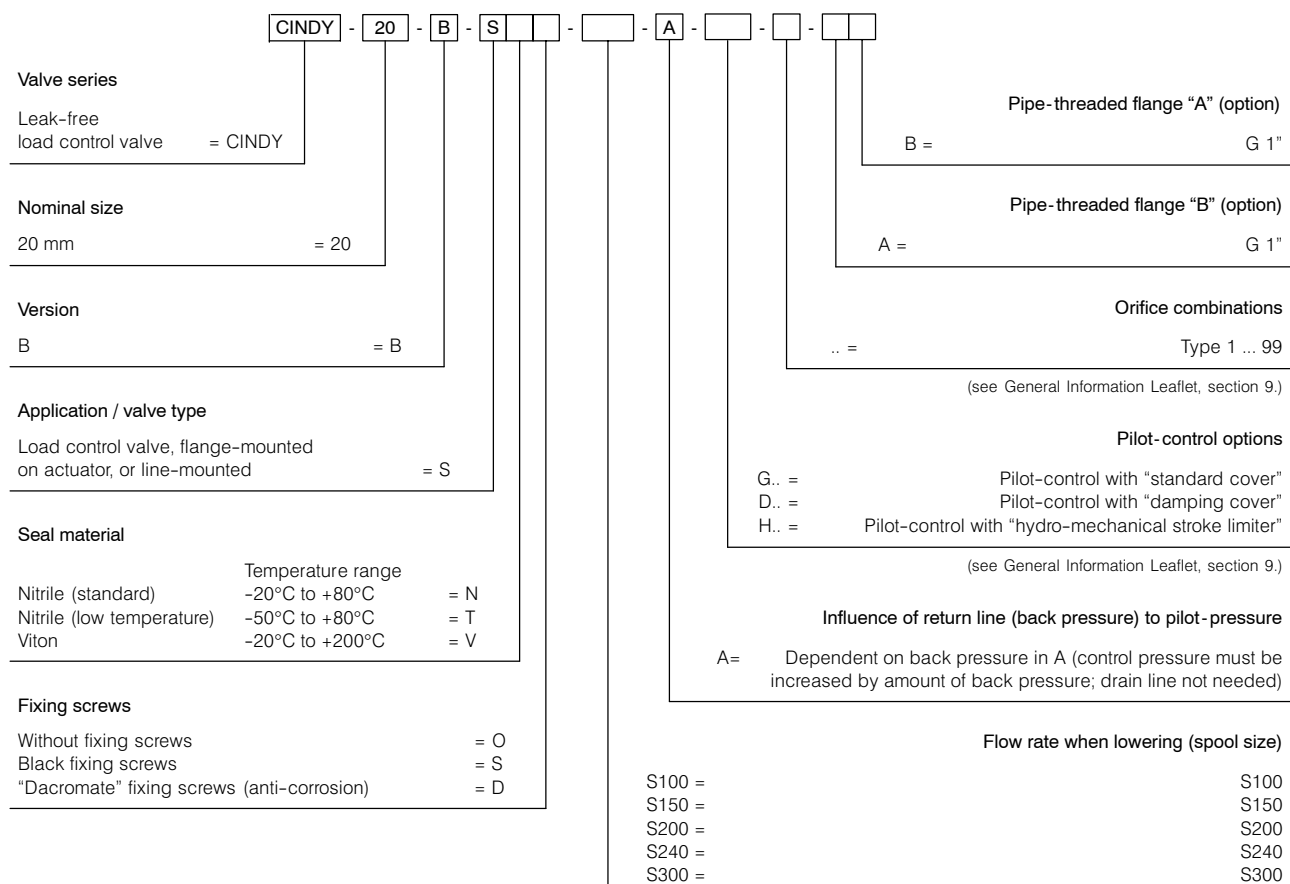
20.4.1 Δp from A $\rightarrow$ B (Lifting)



20.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



20.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010212.....	300 6010280.....	300 6010326.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-S-N-1-G 300.0306751	Service packages Cindy 20-B-S-V-1-G 300.0306788	Service packages Cindy 20-B-S-T-1-G 300.0306827
Pilot-control types D, H Art. No.	Service packages Cindy 20-B-S-N-1-D 300.0306752	Service packages Cindy 20-B-S-V-1-D 300.0306789	Service packages Cindy 20-B-S-T-1-D 300.0306828
Optional A flange	300.0306804	300.0306807	300.0306810

21. Description Cindy-20-B-S...-L-...-

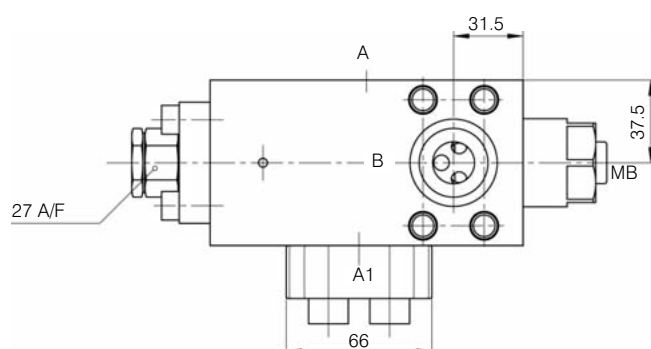
21.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1" 6000 psi	-
B	SAE 1" 6000 psi	3.53x32.92
X, L, L2, MB, MX	G 1/4"	-

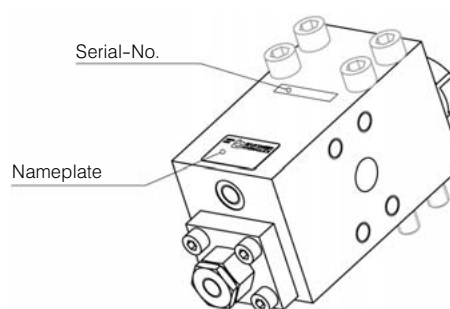
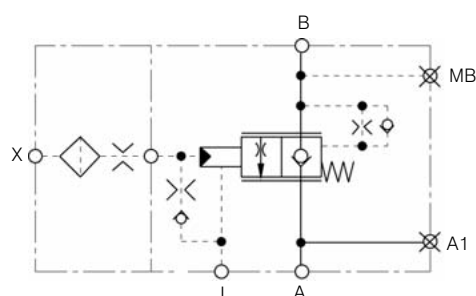
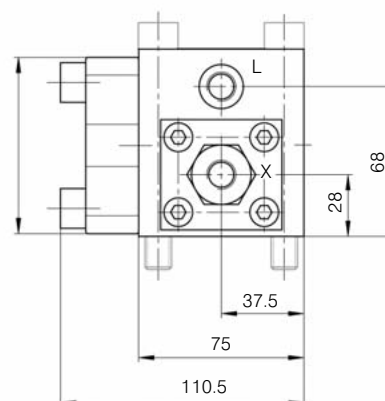
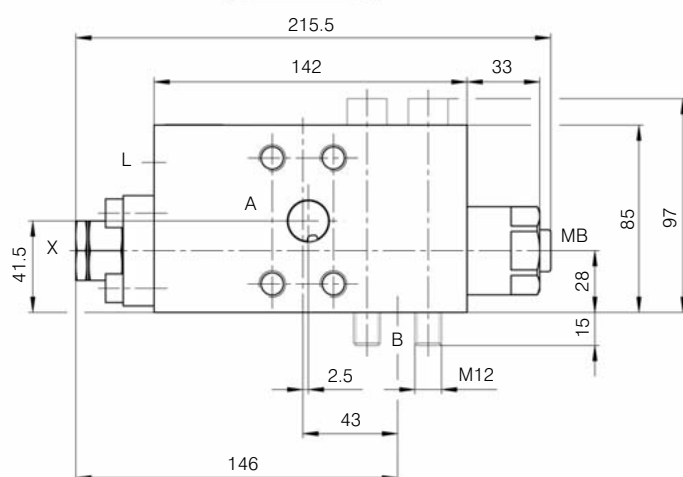
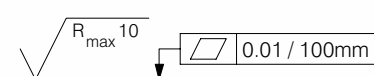
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

21.2 Standard model

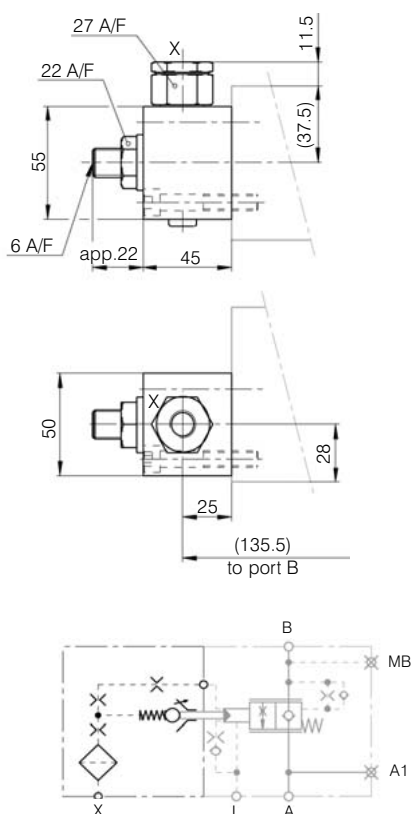


Required quality of the mating surface:

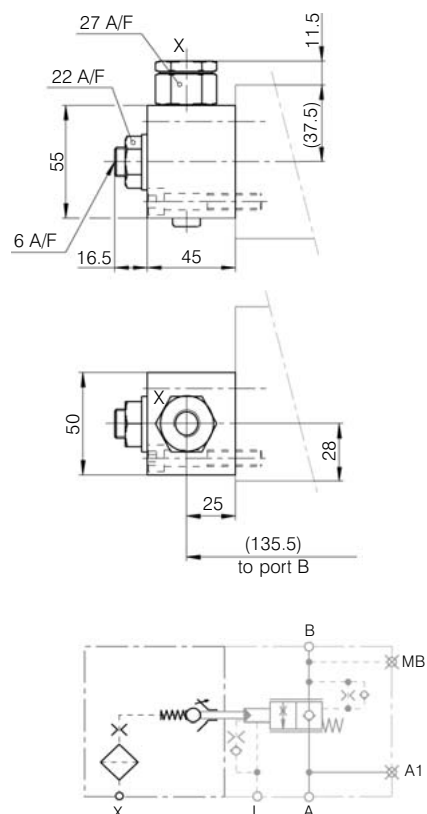


21.3 Pilot-control variants (each can be rotated through 180°)

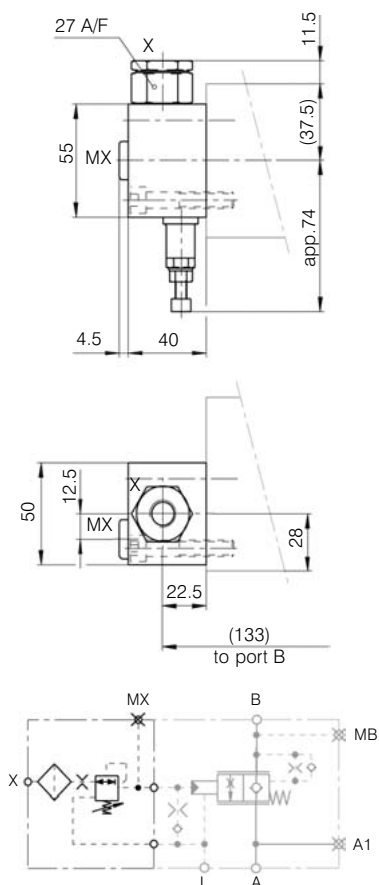
Pilot-control with the "damping cover" (D)



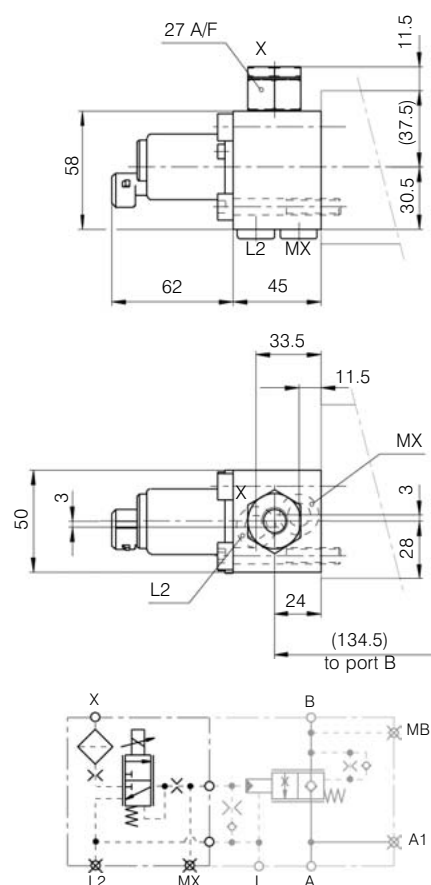
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

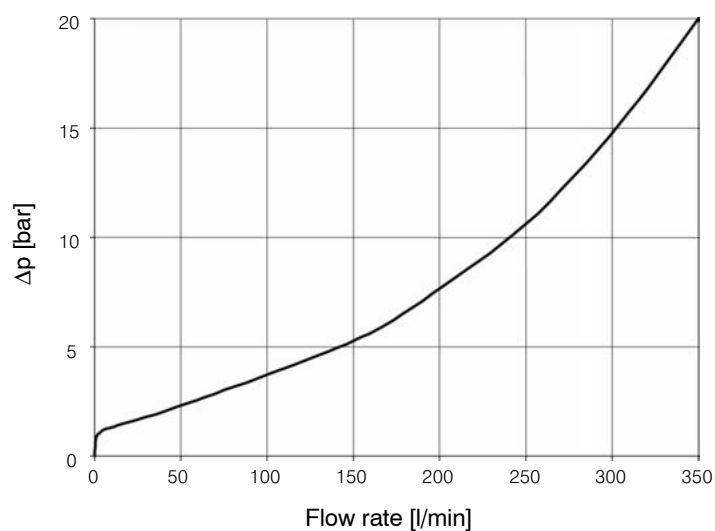


Pilot-control with the "electro-proportional pressure reducing valve" (E)

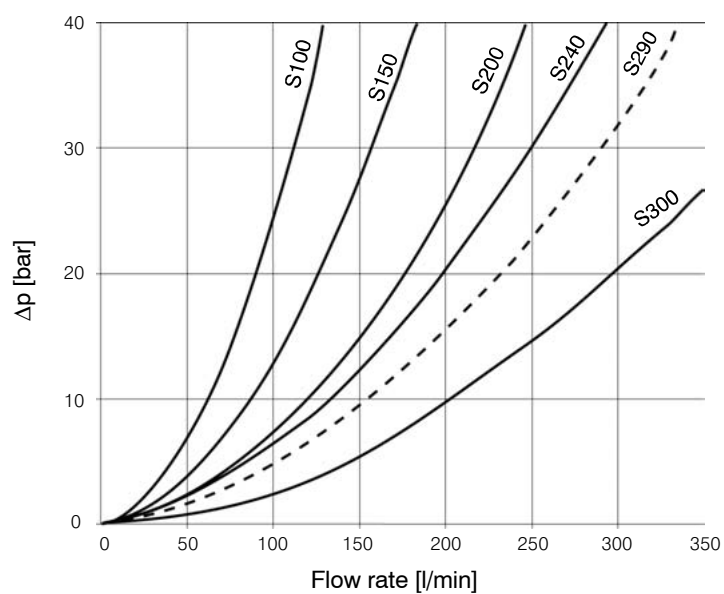


21.4 Characteristic curves (measured at 33 mm²/s [cSt])

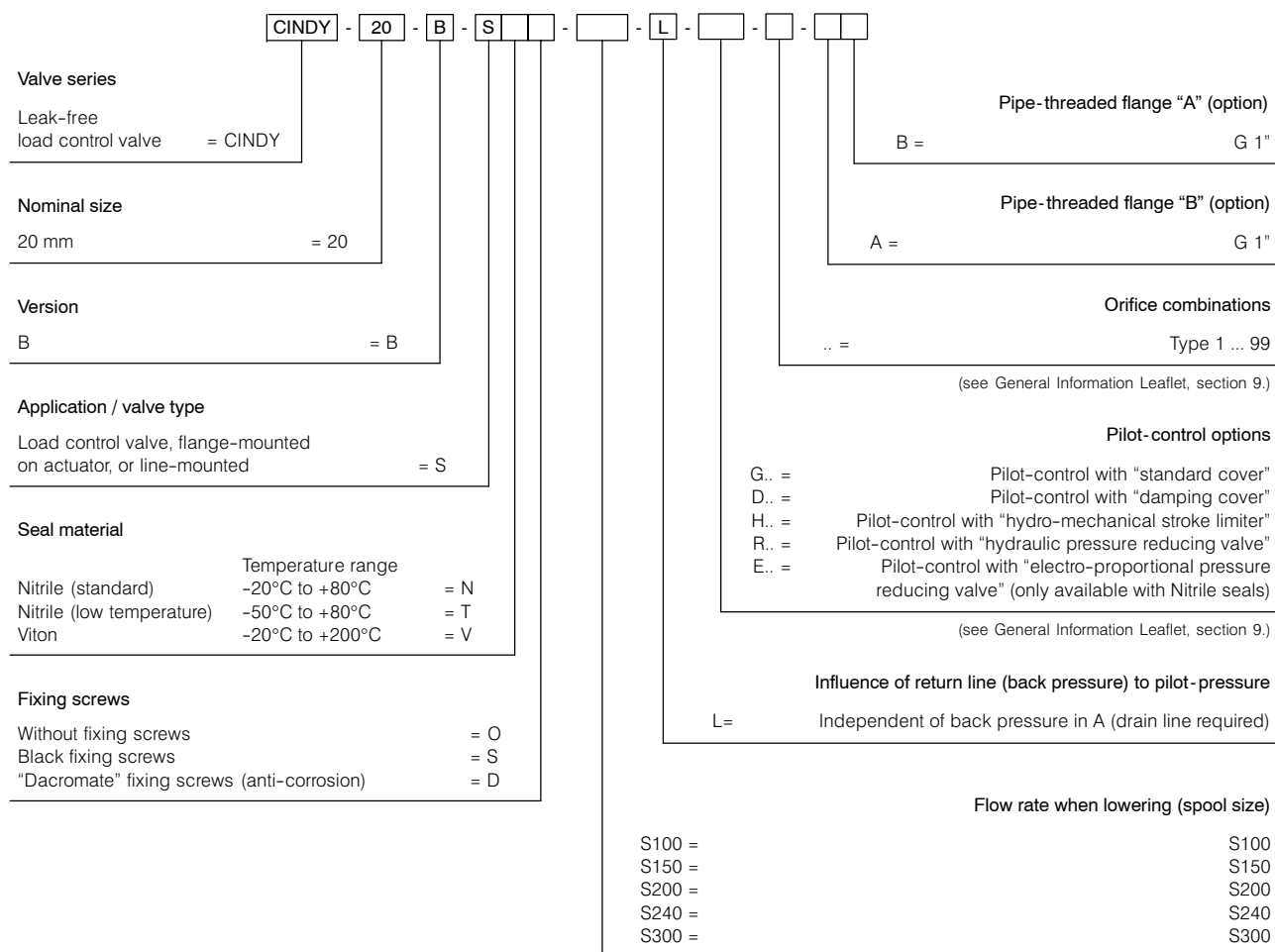
21.4.1 Δp from A $\rightarrow$ B (Lifting)



21.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



21.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010213.....	300 6010281.....	300 6010327.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-S-N-1-G 300.0306751	Service packages Cindy 20-B-S-V-1-G 300.0306788	Service packages Cindy 20-B-S-T-1-G 300.0306827
Pilot-control types D, H Art. No.	Service packages Cindy 20-B-S-N-1-D 300.0306752	Service packages Cindy 20-B-S-V-1-D 300.0306789	Service packages Cindy 20-B-S-T-1-D 300.0306828
Pilot-control type R Art. No.	Service packages Cindy 20-B-S-N-1-R 300.0306753	Service packages Cindy 20-B-S-V-1-R 300.0306790	Service packages Cindy 20-B-S-T-1-R 300.0306829
Pilot-control type E Art. No.	Service packages Cindy 20-B-S-N-1-E 300.0306754	Only available with Nitrile seals	Only available with Nitrile seals
Optional A flange	300.0306804	300.0306807	300.0306810

22. Description Cindy-20-B-S...-A...-SVA...

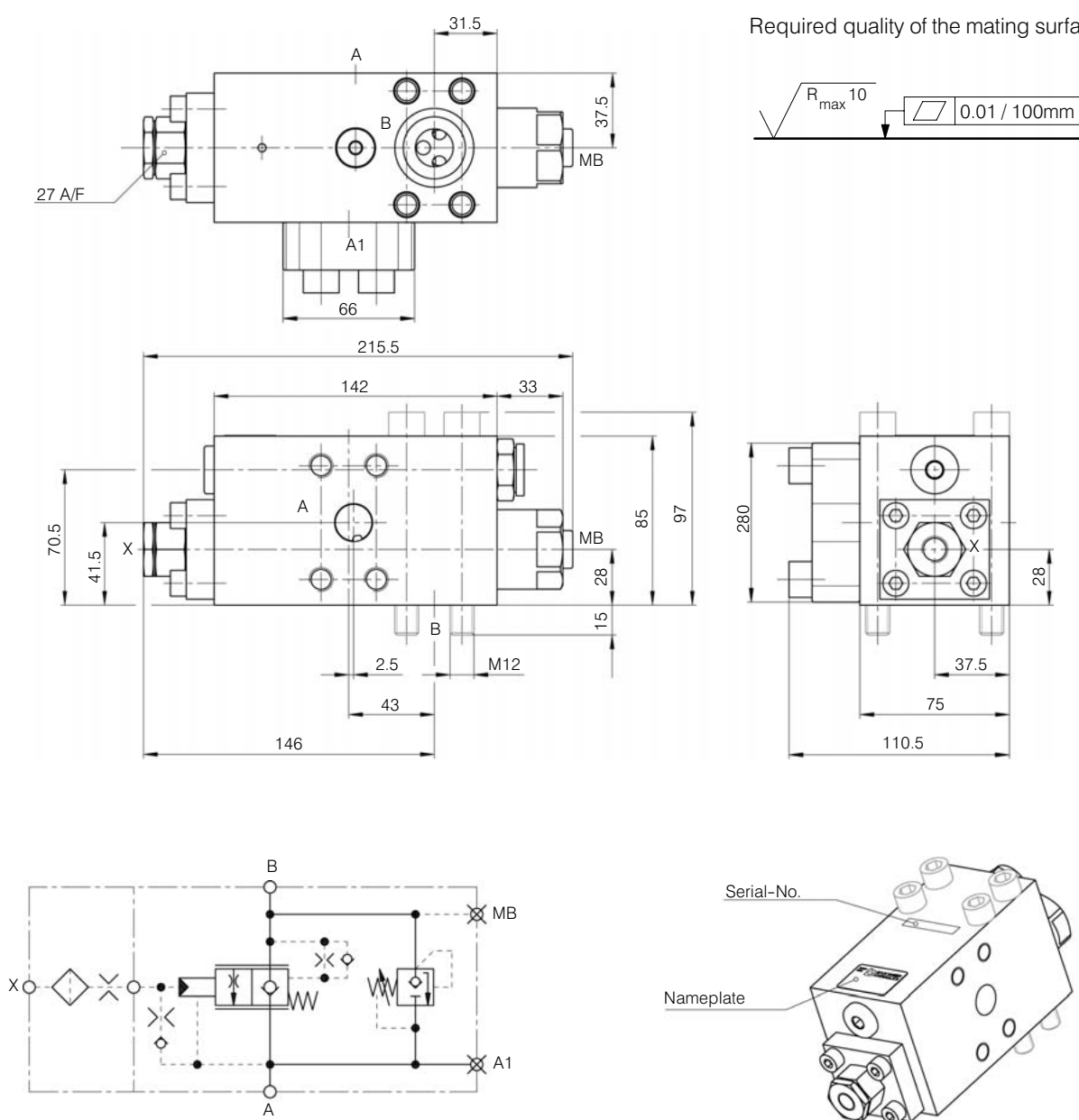
22.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1" 6000 psi	-
B	SAE 1" 6000 psi	3.53x32.92
X, MB	G 1/4"	-

For tightening torques, see Cindy General Information leaflet, section 6.

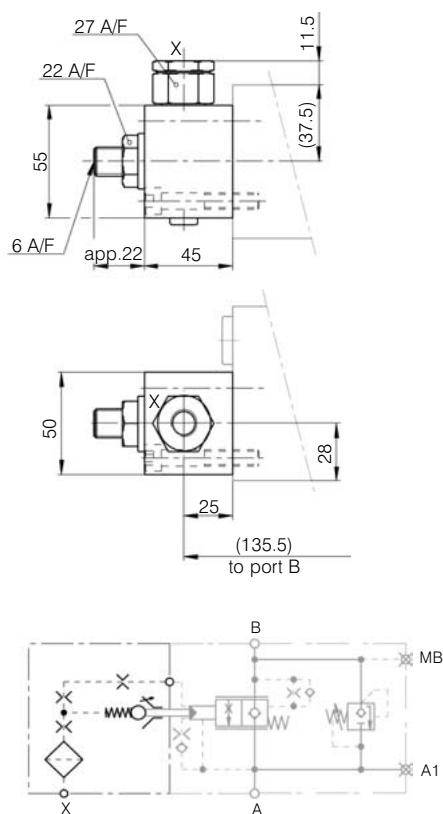
Weight: approx. 7.5 kg

22.2 Standard model

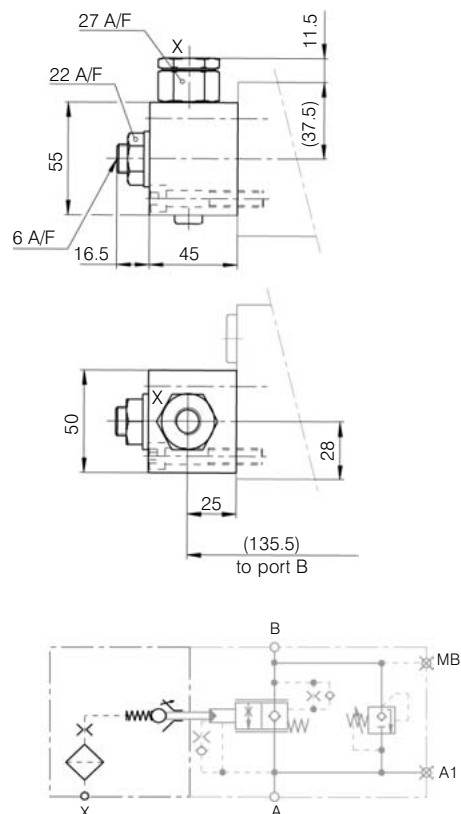


22.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

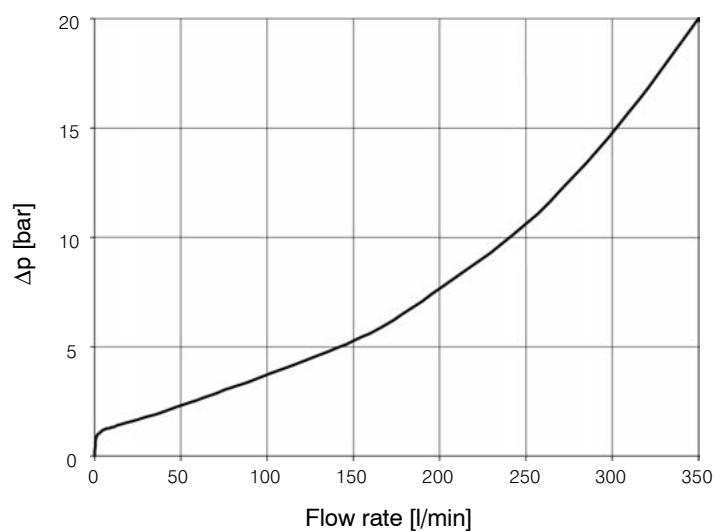


Pilot-control with the "hydro-mechanical stroke" (H)

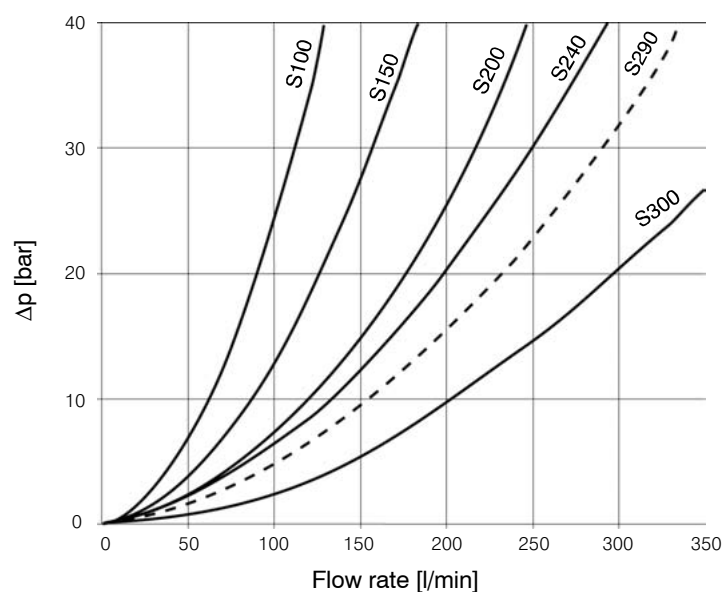


22.4 Characteristic curves (measured at 33 mm²/s [cSt])

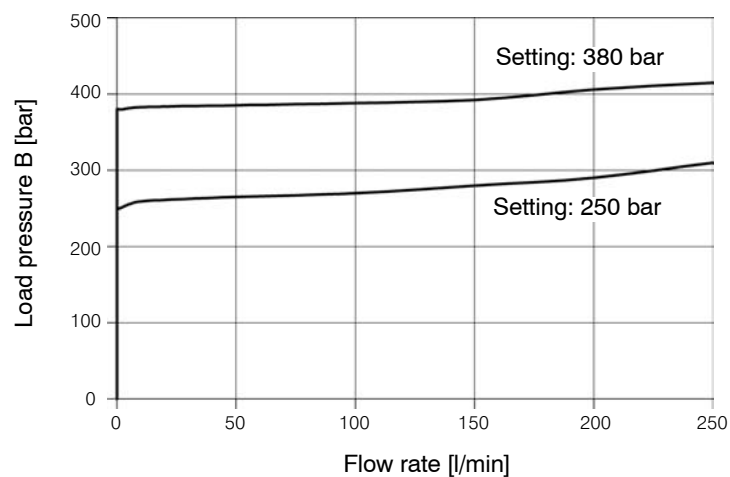
22.4.1 Δp from A $\rightarrow$ B (Lifting)



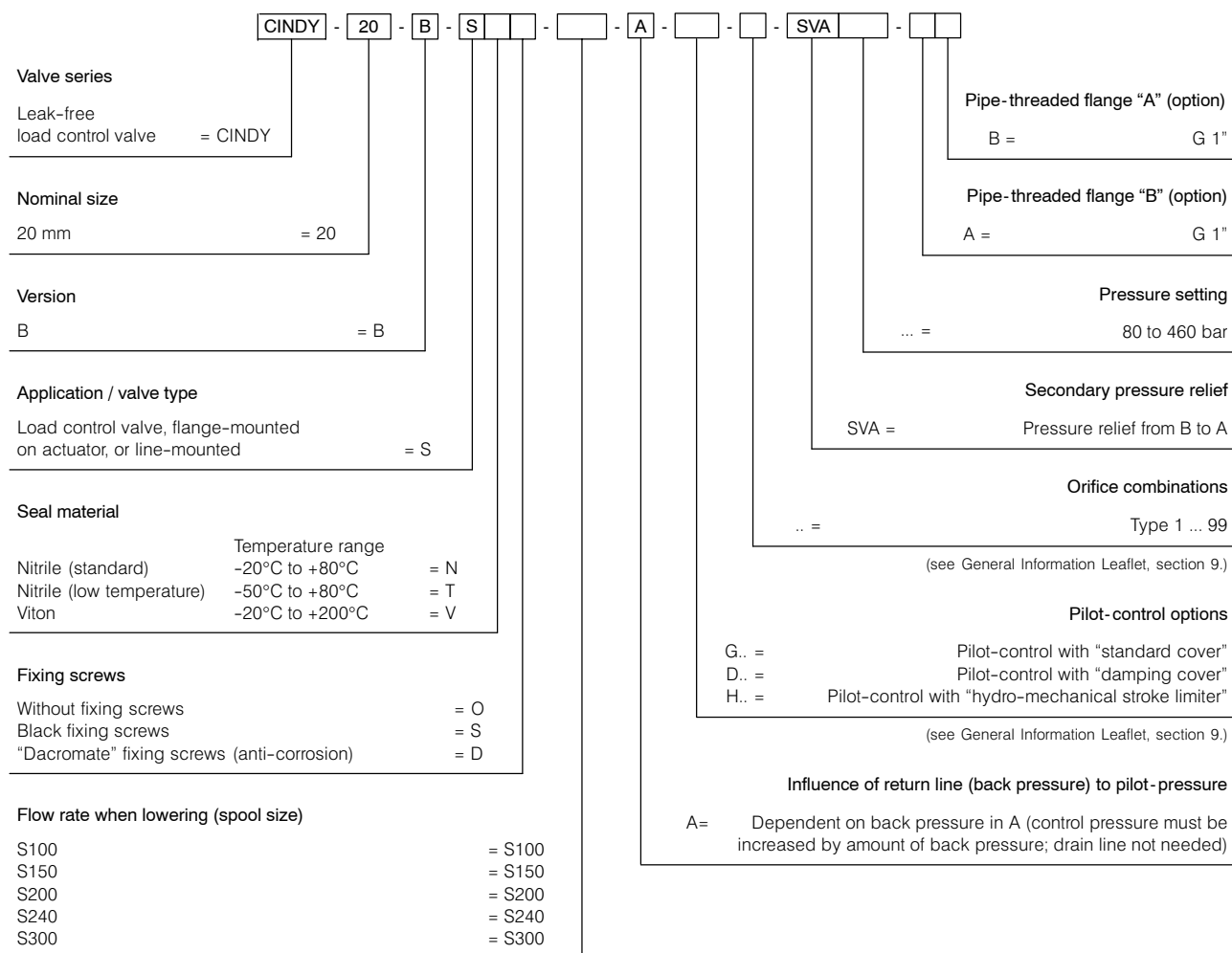
22.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



22.4.3 Opening characteristic of the secondary pressure relief valve



22.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010214.....	300 6010282.....	300 6010328.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-S-N-2-G 300.0306755	Service packages Cindy 20-B-S-V-2-G 300.0306791	Service packages Cindy 20-B-S-T-2-G 300.0306830
Pilot-control types D, H Art. No.	Service packages Cindy 20-B-S-N-2-D 300.0306756	Service packages Cindy 20-B-S-V-2-D 300.0306792	Service packages Cindy 20-B-S-T-2-D 300.0306831
Optional A flange	300.0306804	300.0306807	300.0306810

23. Description Cindy-20-B-S...-L-...-SVA...

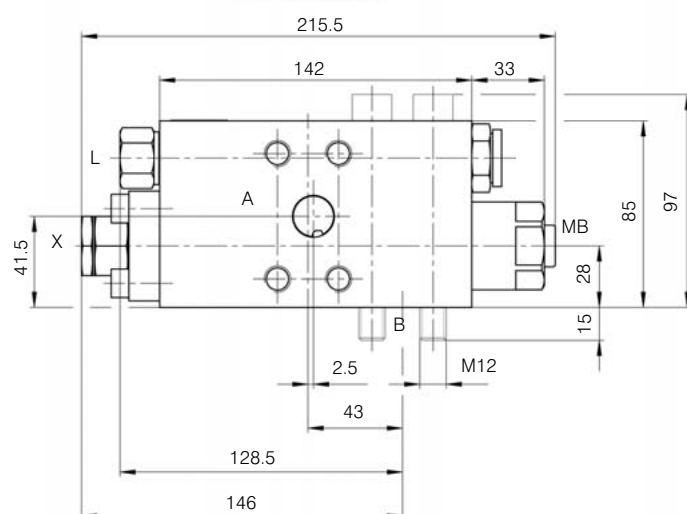
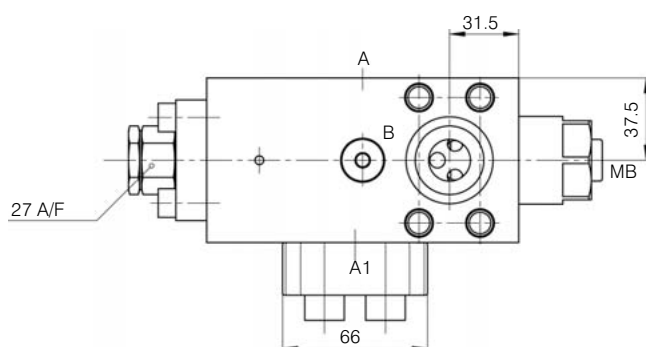
23.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1" 6000 psi	-
B	SAE 1" 6000 psi	3.53x32.92
X, L, L2, MB, MX	G 1/4"	-

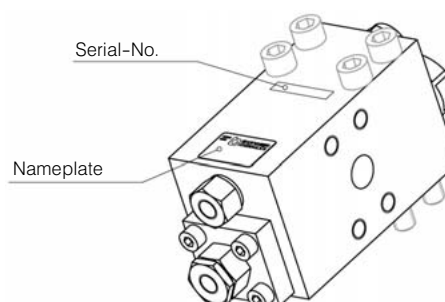
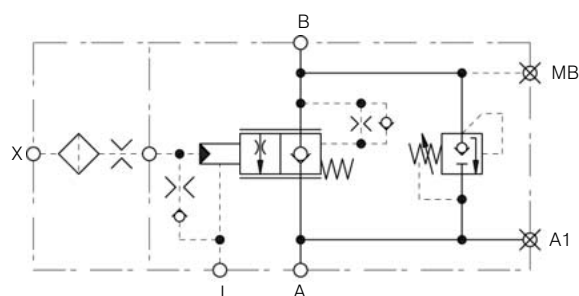
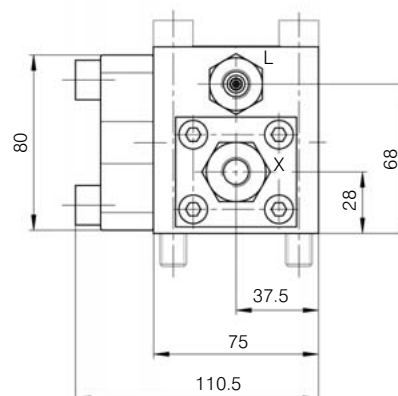
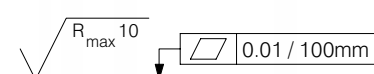
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.5 kg

23.2 Standard model

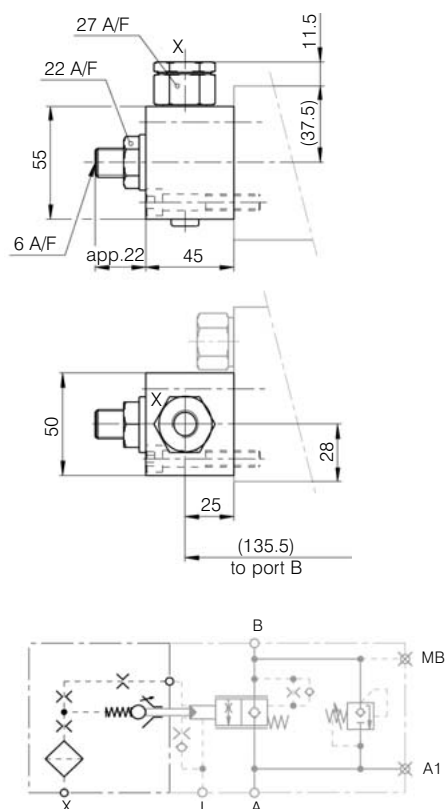


Required quality of the mating surface:

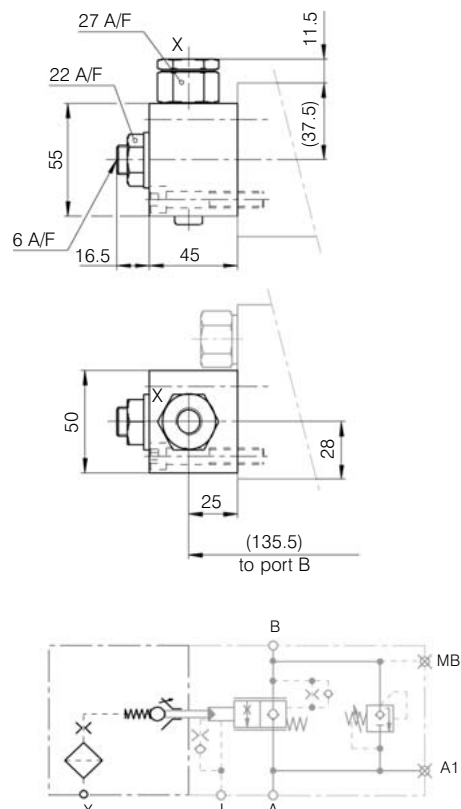


23.3 Pilot-control variants (each can be rotated through 180°)

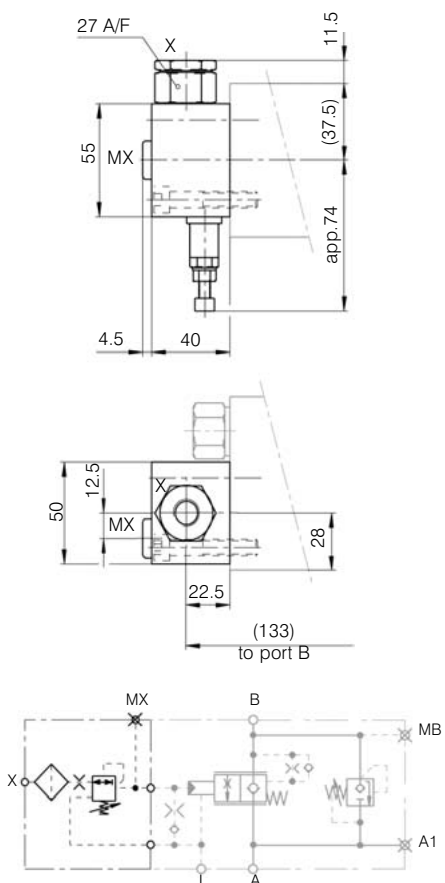
Pilot-control with the "damping cover" (D)



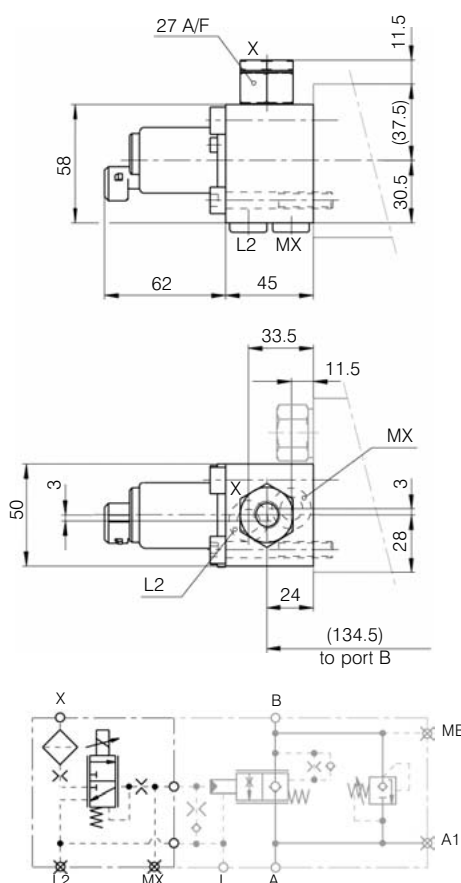
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

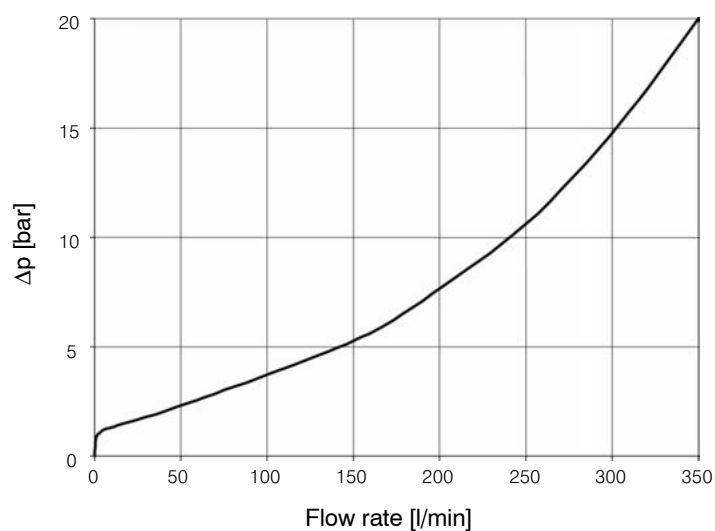


Pilot-control with the "electro-proportional pressure reducing valve" (E)

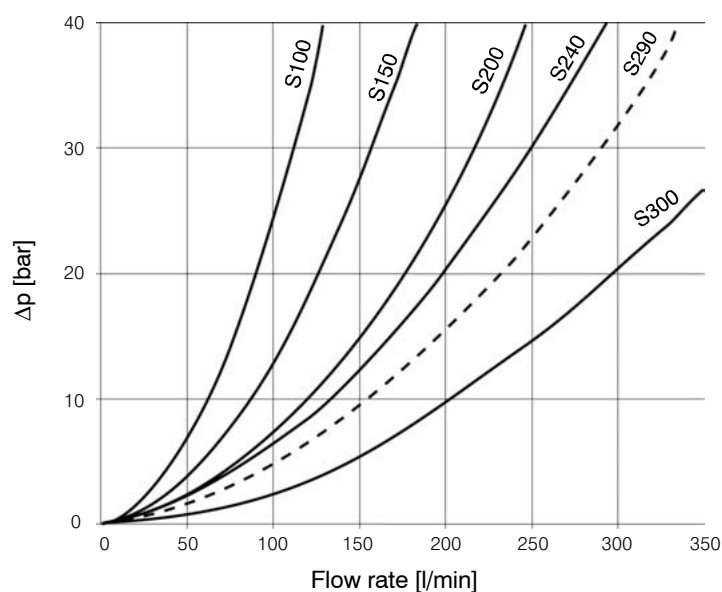


23.4 Characteristic curves (measured at 33 mm²/s [cSt])

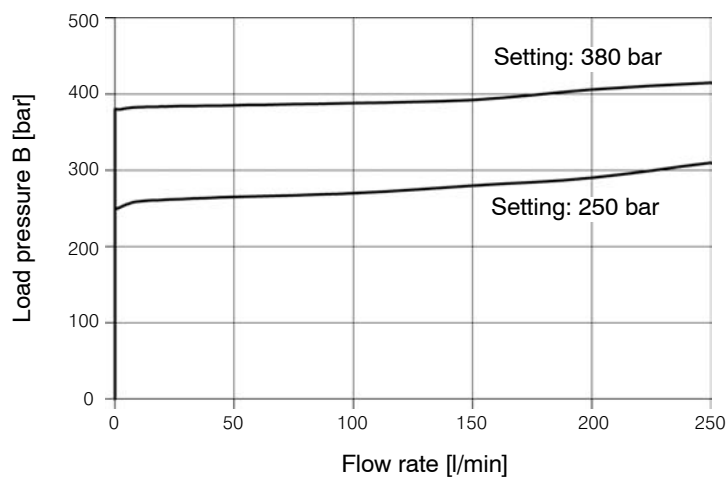
23.4.1 Δp from A $\rightarrow$ B (Lifting)



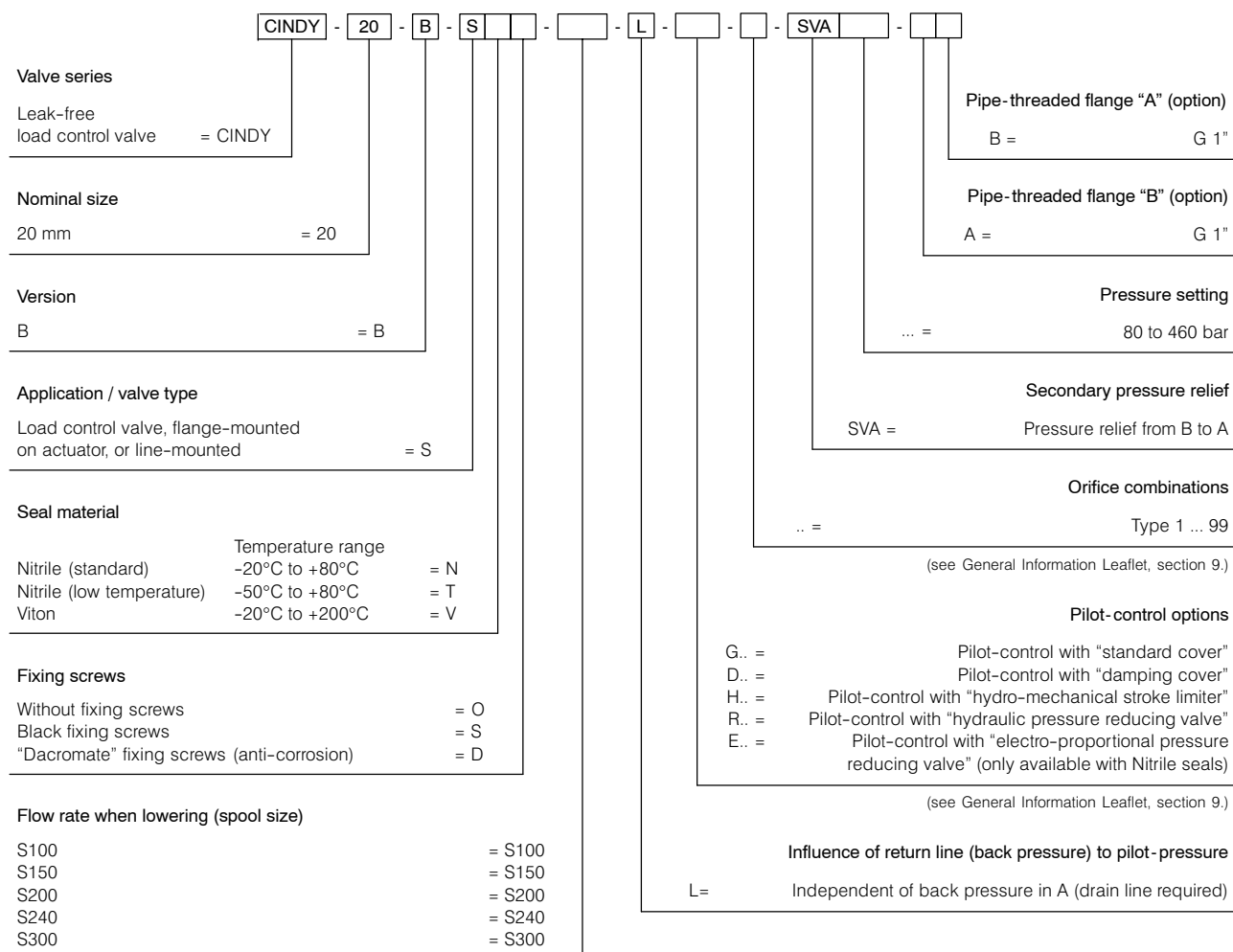
23.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



23.4.3 Opening characteristic of the secondary pressure relief valve



23.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010215.....	300 6010283.....	300 6010329.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-S-N-1-G 300.0306751	Service packages Cindy 20-B-S-V-1-G 300.0306788	Service packages Cindy 20-B-S-T-1-G 300.0306827
Pilot-control types D, H Art. No.	Service packages Cindy 20-B-S-N-1-D 300.0306752	Service packages Cindy 20-B-S-V-1-D 300.0306789	Service packages Cindy 20-B-S-T-1-D 300.0306828
Pilot-control type R Art. No.	Service packages Cindy 20-B-S-N-1-R 300.0306753	Service packages Cindy 20-B-S-V-1-R 300.0306790	Service packages Cindy 20-B-S-T-1-R 300.0306829
Pilot-control type E Art. No.	Service packages Cindy 20-B-S-N-1-E 300.0306754	Only available with Nitrile seals	Only available with Nitrile seals
Optional A flange	300.0306804	300.0306807	300.0306810

24. Description Cindy-20-B-S...-L-...-SVT...

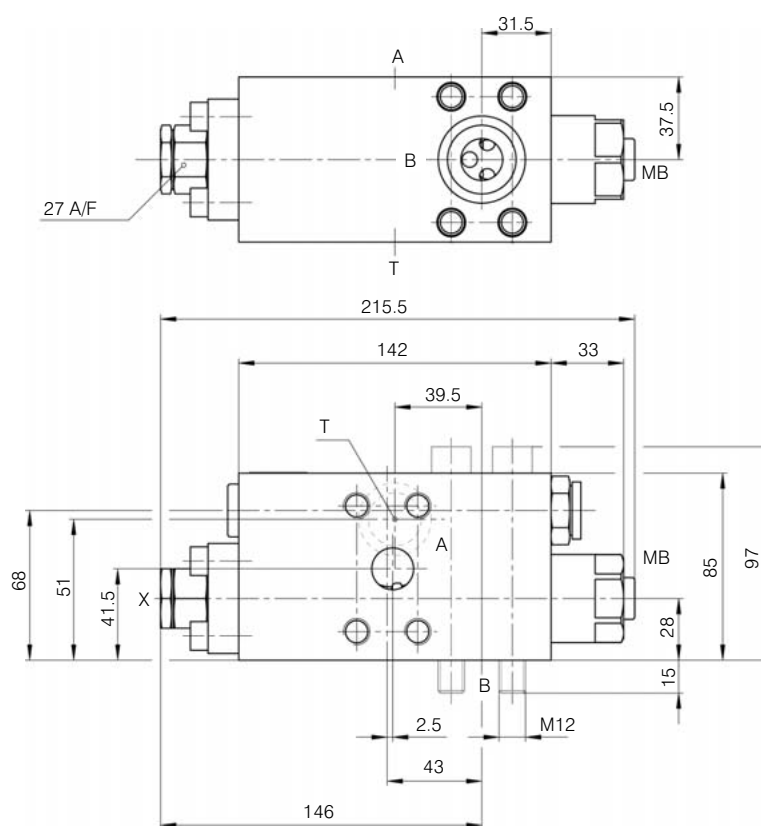
24.1 Port sizes / weight

Port	Port size	O-Ring
A	SAE 1" 6000 psi	-
B	SAE 1" 6000 psi	3.53x32.92
T	G 3/4"	-
X, L2, MB, MX	G 1/4"	-

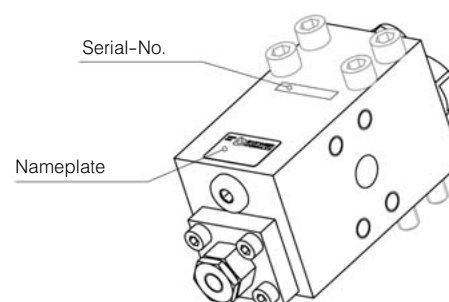
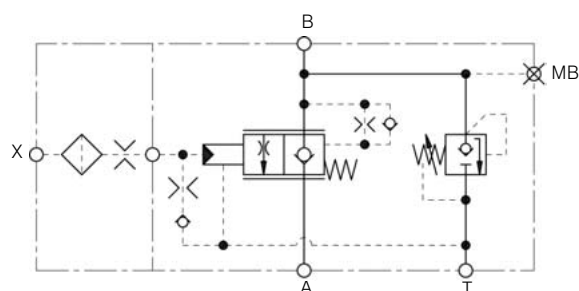
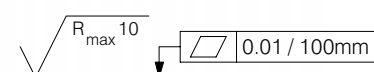
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

24.2 Standard model

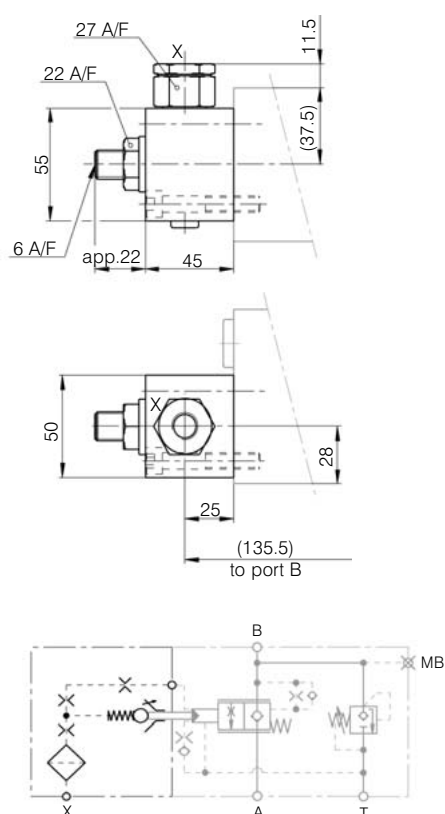


Required quality of the mating surface:

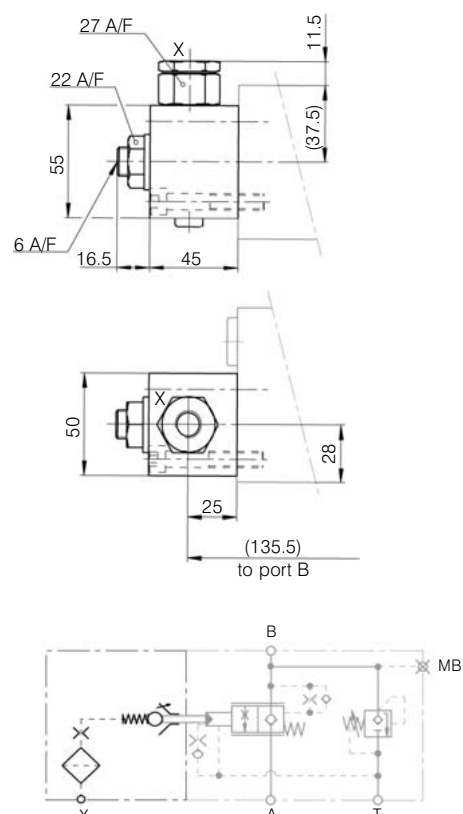


24.3 Pilot-control variants (each can be rotated through 180°)

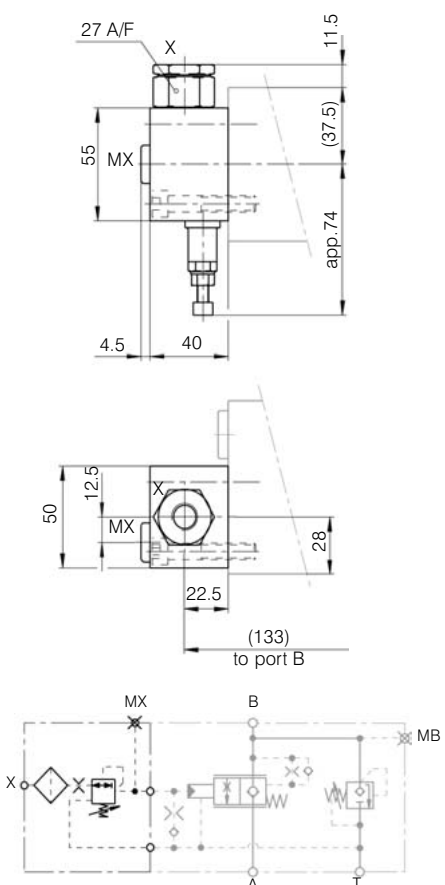
Pilot-control with the "damping cover" (D)



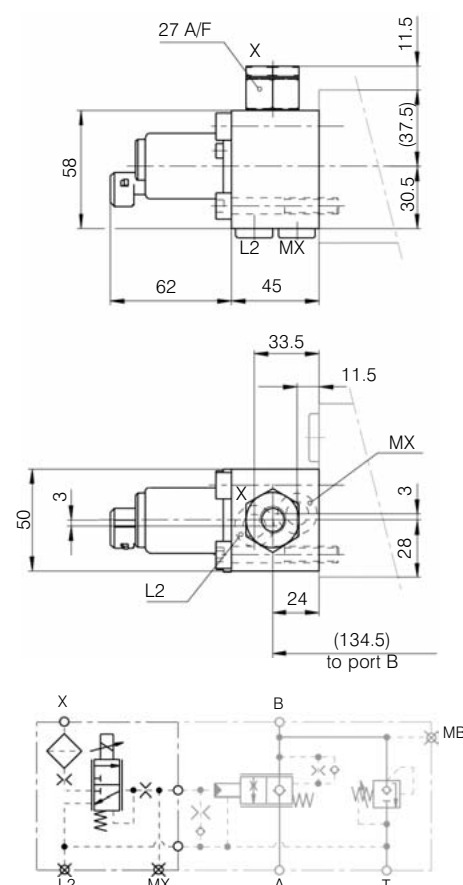
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

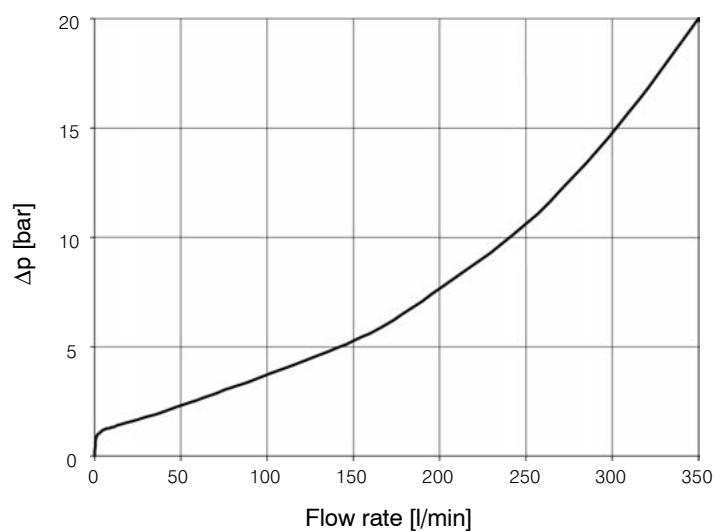


Pilot-control with the "electro-proportional pressure reducing valve" (E)

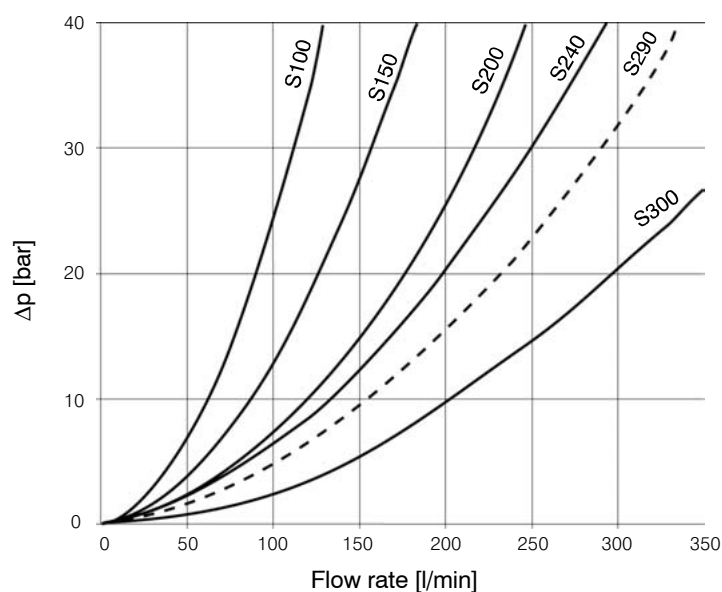


24.4 Characteristic curves (measured at 33 mm²/s [cSt])

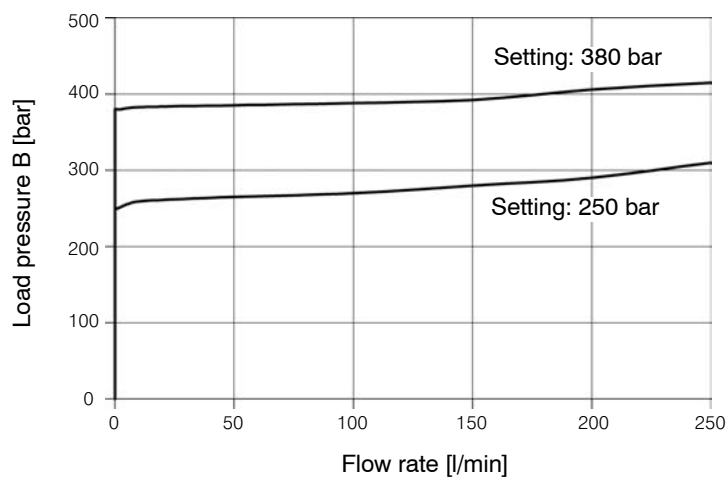
24.4.1 Δp from A $\rightarrow$ B (Lifting)



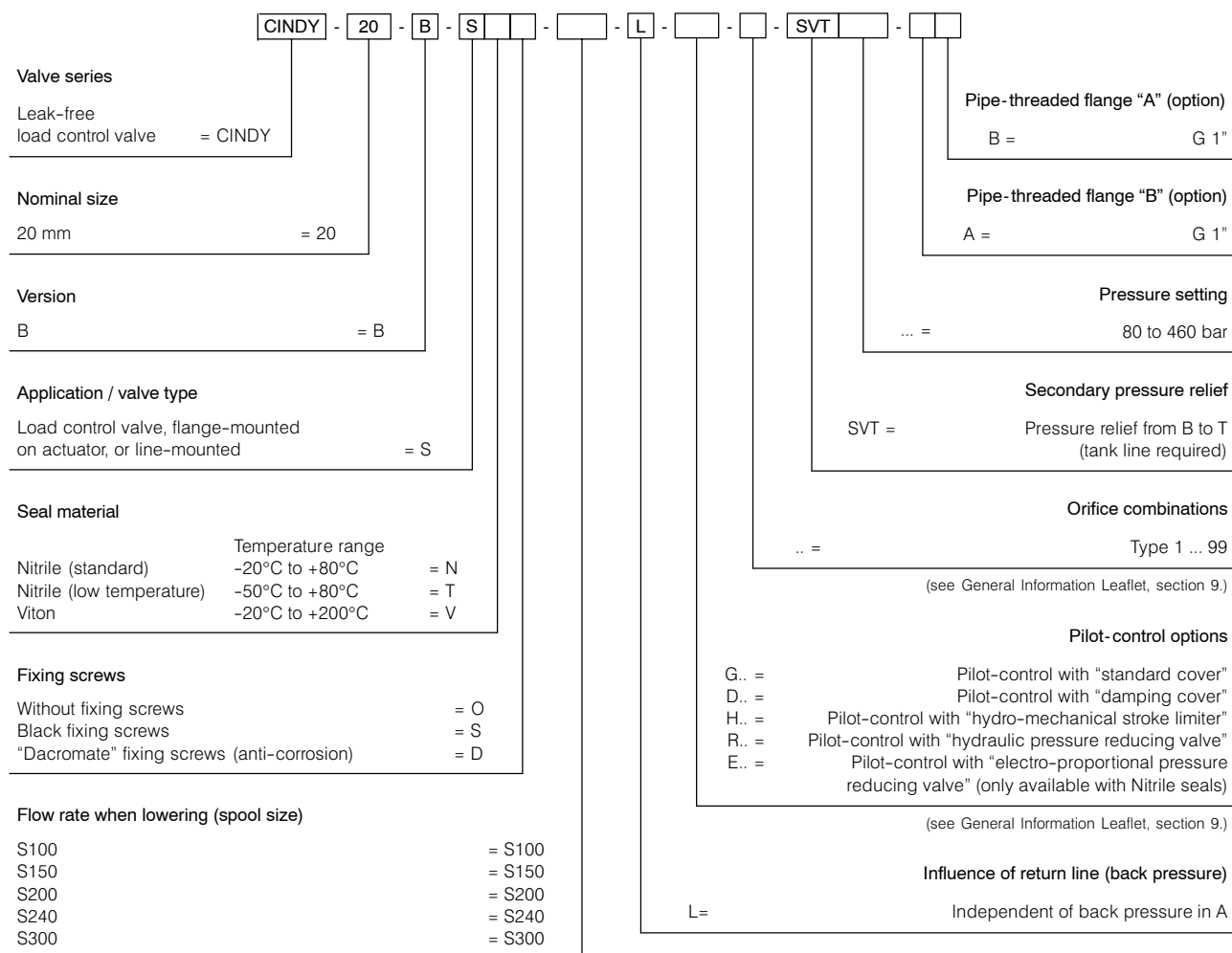
24.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



24.4.3 Opening characteristic of the secondary pressure relief valve



24.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010216.....	300 6010284.....	300 6010330.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-S-N-2-G 300.0306755	Service packages Cindy 20-B-S-V-2-G 300.0306791	Service packages Cindy 20-B-S-T-2-G 300.0306830
Pilot-control types D, H Art. No.	Service packages Cindy 20-B-S-N-2-D 300.0306756	Service packages Cindy 20-B-S-V-2-D 300.0306792	Service packages Cindy 20-B-S-T-2-D 300.0306831
Pilot-control type R Art. No.	Service packages Cindy 20-B-S-N-2-R 300.0306757	Service packages Cindy 20-B-S-V-2-R 300.0306793	Service packages Cindy 20-B-S-T-2-R 300.0306832
Pilot-control type E Art. No.	Service packages Cindy 20-B-S-N-2-E 300.0306758	Only available with Nitrile seals	Only available with Nitrile seals
Optional A flange	300.0306804	300.0306807	300.0306810

25. Description Cindy-20-B-S...-A-...-SVZ...

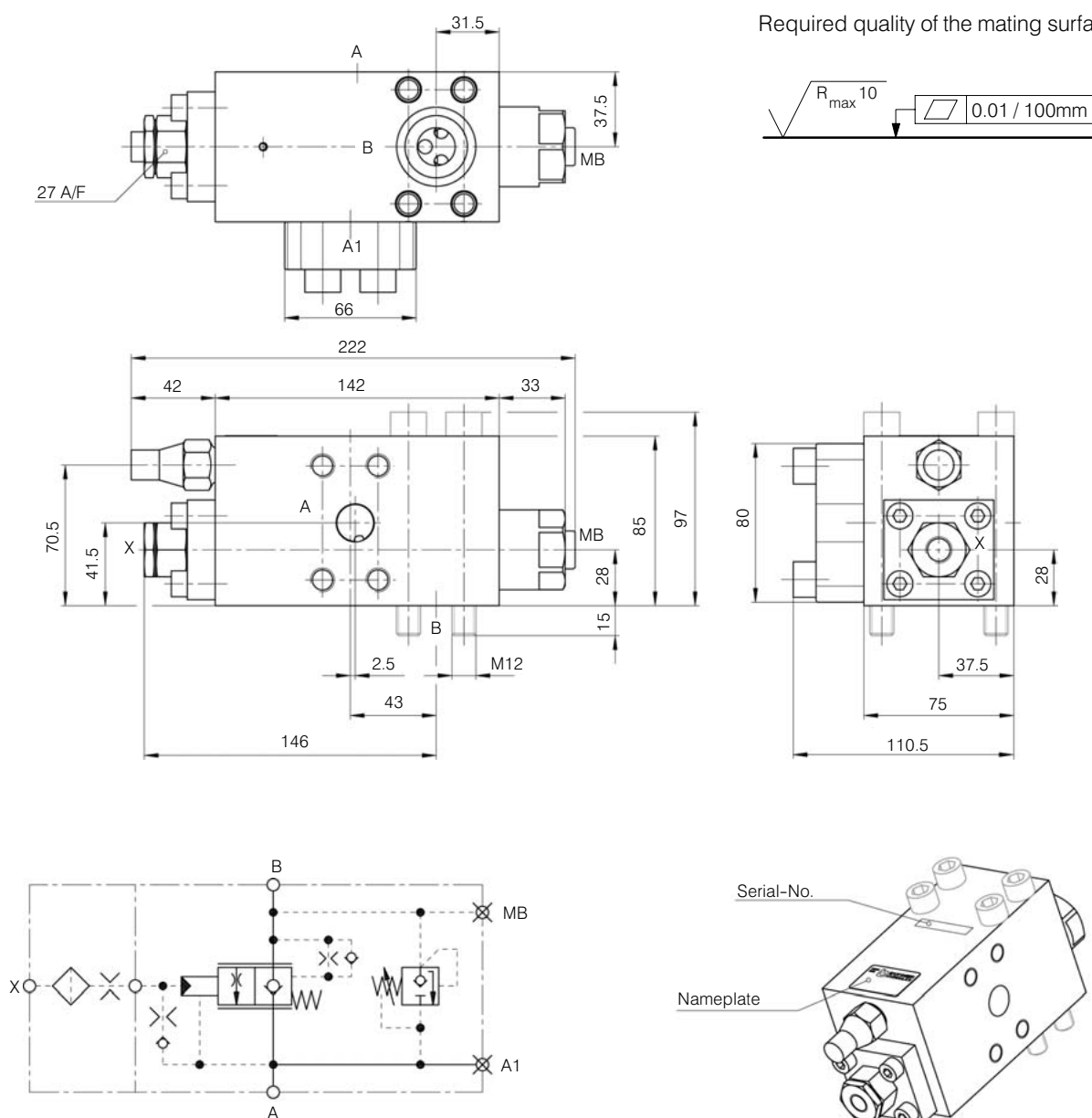
25.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1" 6000 psi	-
B	SAE 1" 6000 psi	3.53x32.92
X, MB	G 1/4"	-

For tightening torques, see Cindy General Information leaflet, section 6.

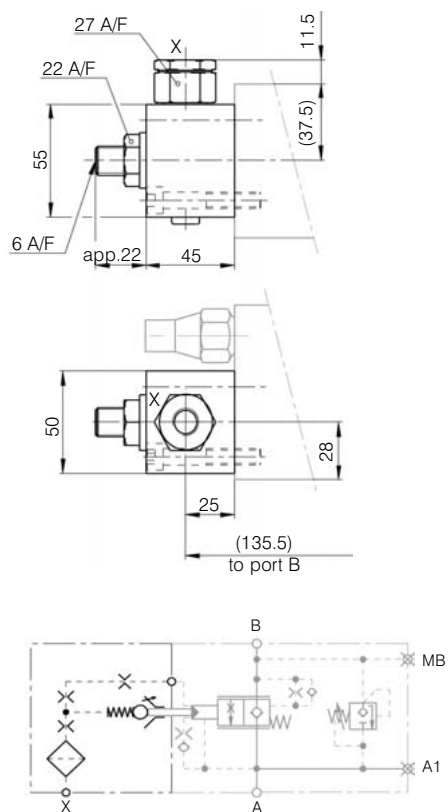
Weight: approx. 7.6 kg

25.2 Standard model

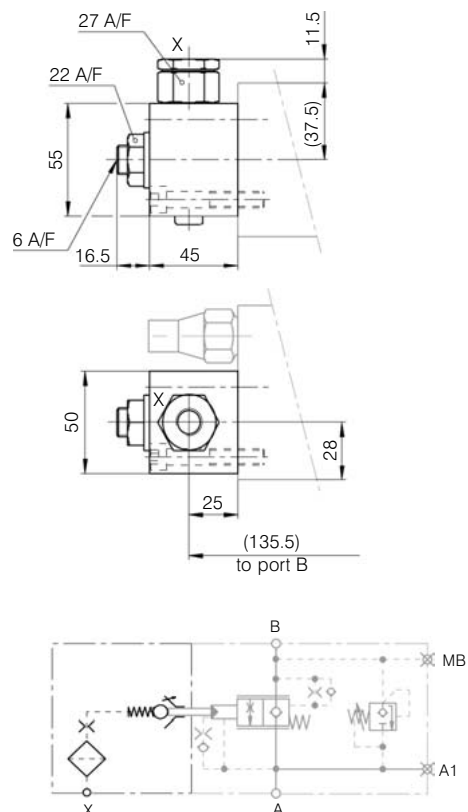


25.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

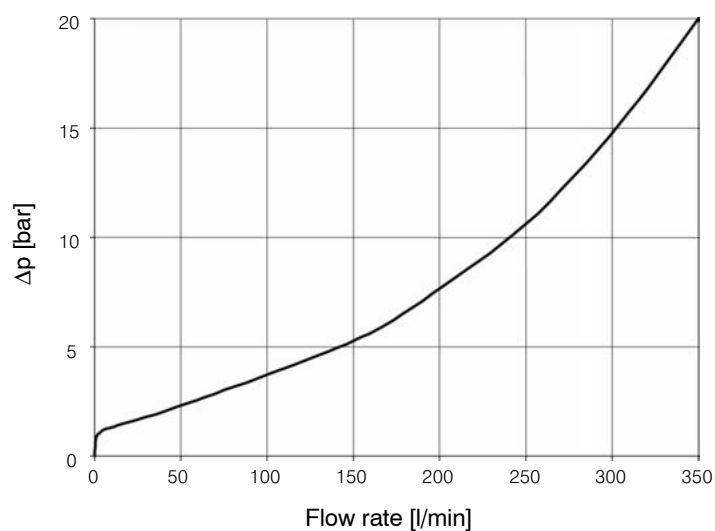


Pilot-control with the "hydro-mechanical stroke limiter" (H)

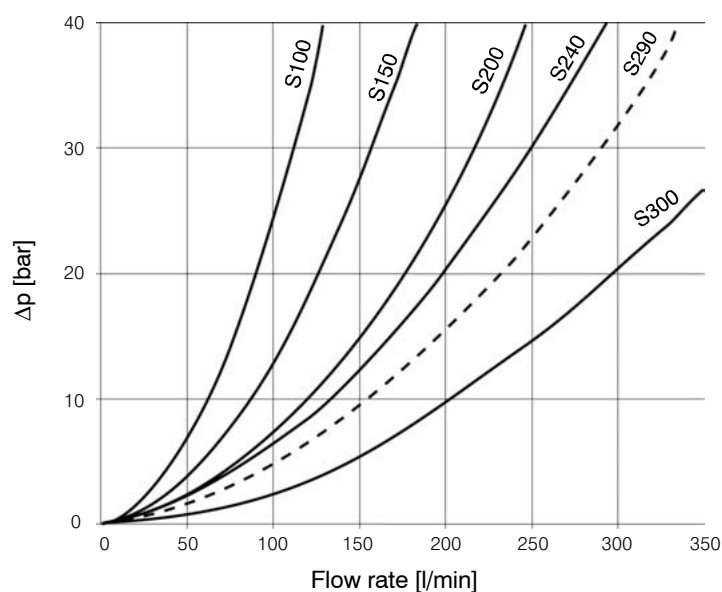


25.4 Characteristic curves (measured at 33 mm²/s [cSt])

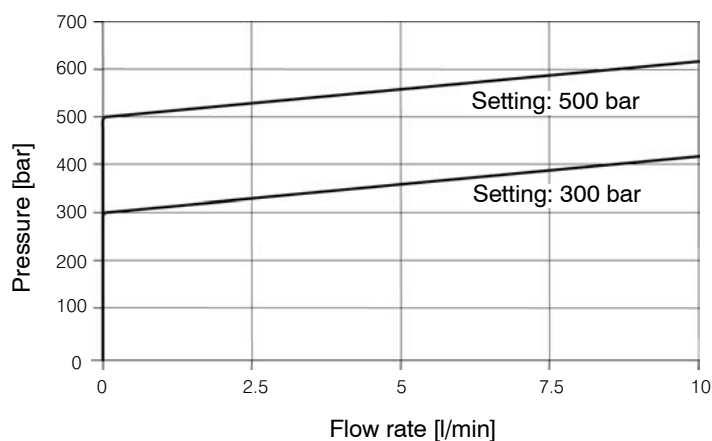
25.4.1 Δp from A $\rightarrow$ B (Lifting)



25.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



25.4.3 Opening characteristic of the thermal expansion pressure relief (UVP-4)



25.5 Model code key

CINDY - 20 - B - S - - - A - - - SVZ - -		
Valve series Leak-free load control valve = CINDY		Pipe-threaded flange "A" (option) B = G 1"
Nominal size 20 mm = 20		Pipe-threaded flange "B" (option) A = G 1"
Version B = B		Pressure setting ... = 250 to 500 bar
Application / valve type Load control valve, flange-mounted on actuator, or line-mounted = S		Secondary pressure relief SVZ = With thermal expansion relief in B to L (nom. 2.5 mm)
Seal material Nitrile (standard) -20°C to +80°C = N Nitrile (low temperature) -50°C to +80°C = T Viton -20°C to +200°C = V		Orifice combinations .. = Type 1 ... 99 (see General Information Leaflet, section 9.)
Fixing screws Without fixing screws = O Black fixing screws = S "Dacromate" fixing screws (anti-corrosion) = D		Pilot-control options G.. = Pilot-control with "standard cover" D.. = Pilot-control with "damping cover" H.. = Pilot-control with "hydro-mechanical stroke limiter" (see General Information Leaflet, section 9.)
Flow rate when lowering (spool size) S100 = S100 S150 = S150 S200 = S200 S240 = S240 S300 = S300		Influence of return line (back pressure) to pilot-pressure A= Dependent on back pressure in A (control pressure must be increased by amount of back pressure; drain line not needed)

Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010217.....	300 6010285.....	300 6010331.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-S-N-1-G 300.0306751	Service packages Cindy 20-B-S-V-1-G 300.0306788	Service packages Cindy 20-B-S-T-1-G 300.0306827
Pilot-control types D, H Art. No.	Service packages Cindy 20-B-S-N-1-D 300.0306752	Service packages Cindy 20-B-S-V-1-D 300.0306789	Service packages Cindy 20-B-S-T-1-D 300.0306828
Optional A flange	300.0306804	300.0306807	300.0306810
Optional SVZ	250-350 bar 300.6010408	250-350 bar 300.6010409	250-350 bar 300.6010410
	350-500 bar 300.6010411	350-500 bar 300.6010412	350-500 bar 300.6010413

26. Description Cindy-20-B-S...-L-...-SVZ...

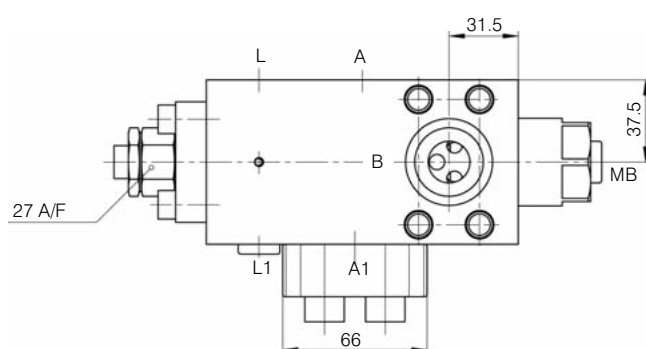
26.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1" 6000 psi	-
B	SAE 1" 6000 psi	3.53x32.92
X, L, L1, L2, MB, MX	G 1/4"	-

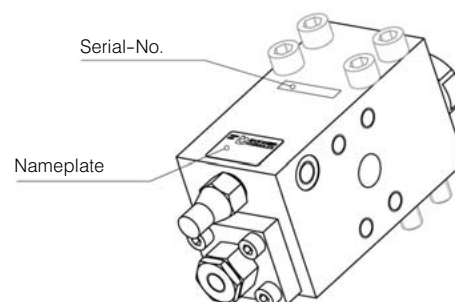
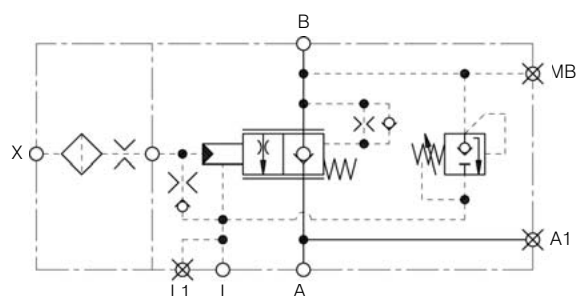
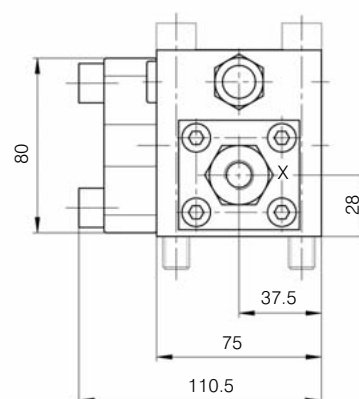
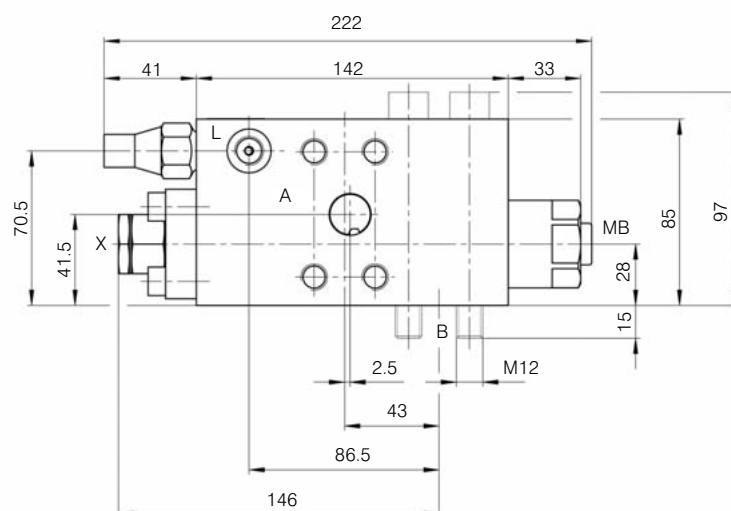
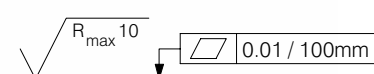
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

26.2 Standard model

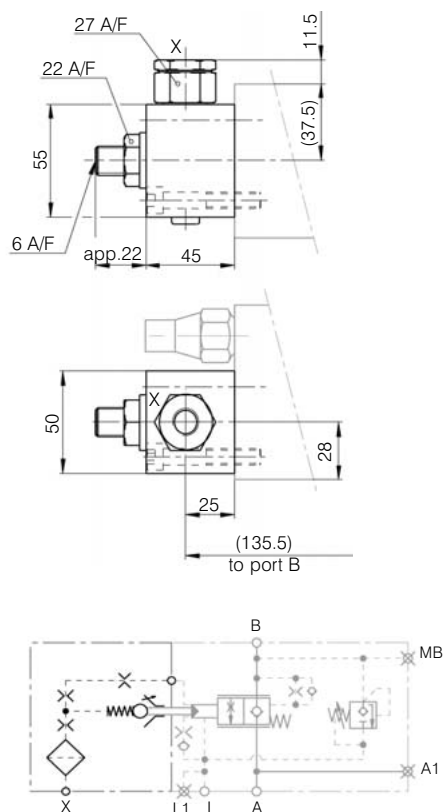


Required quality of the mating surface:

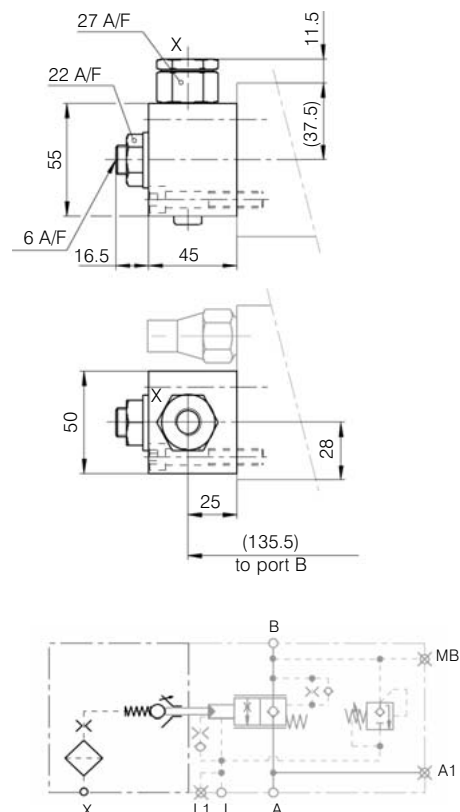


26.3 Pilot-control variants (each can be rotated through 180°)

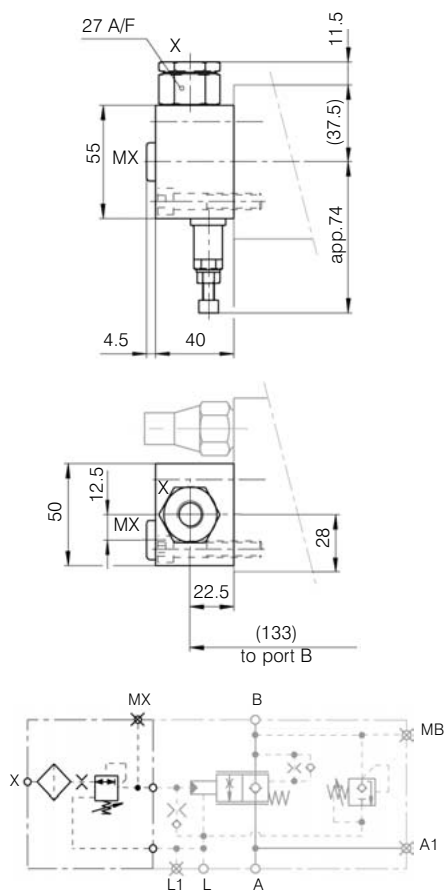
Pilot-control with the "damping cover" (D)



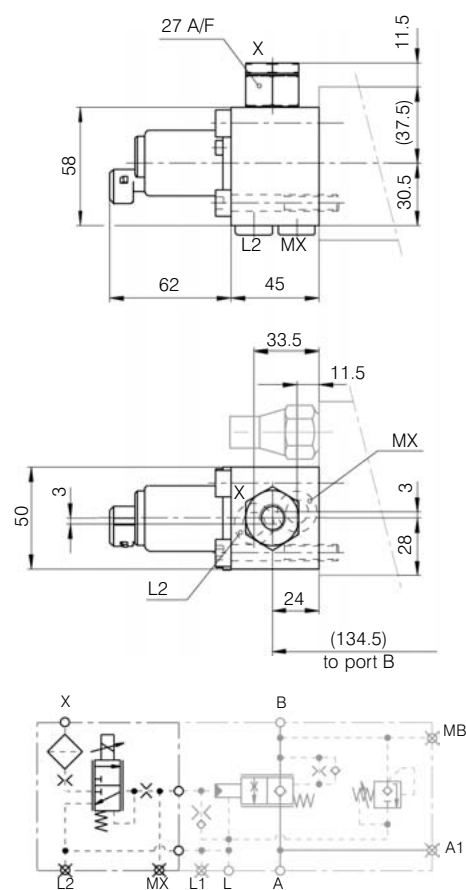
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

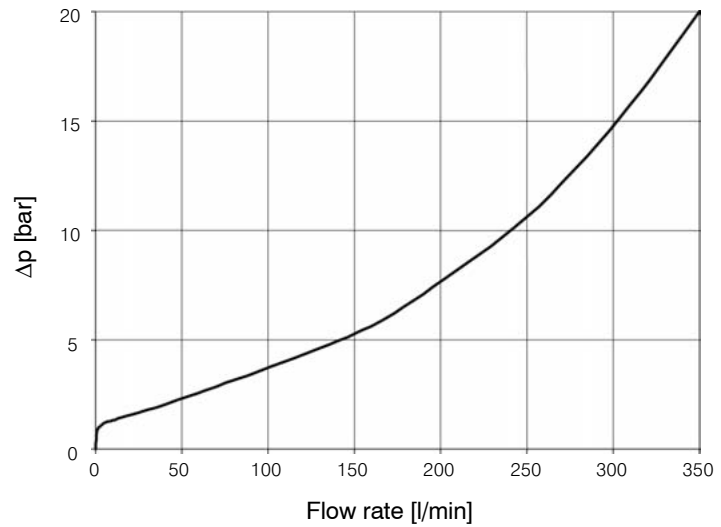


Pilot-control with the "electro-proportional pressure reducing valve" (E)

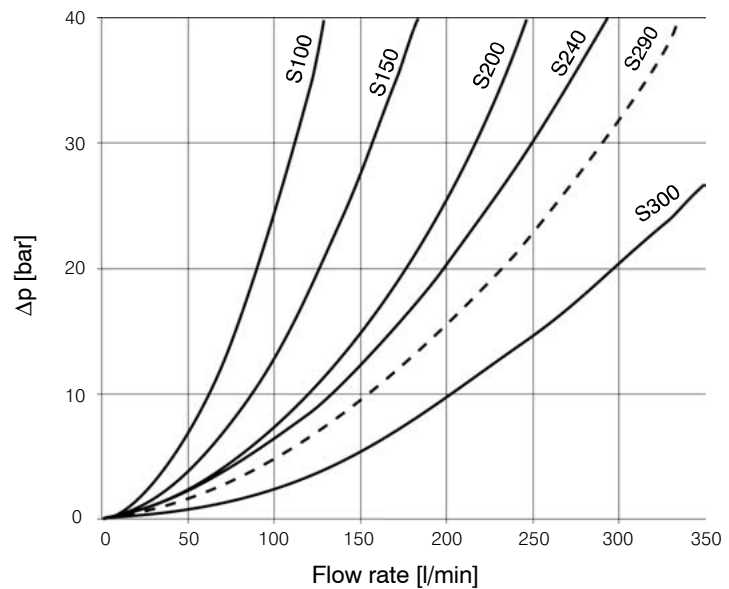


26.4 Characteristic curves (measured at 33 mm²/s [cSt])

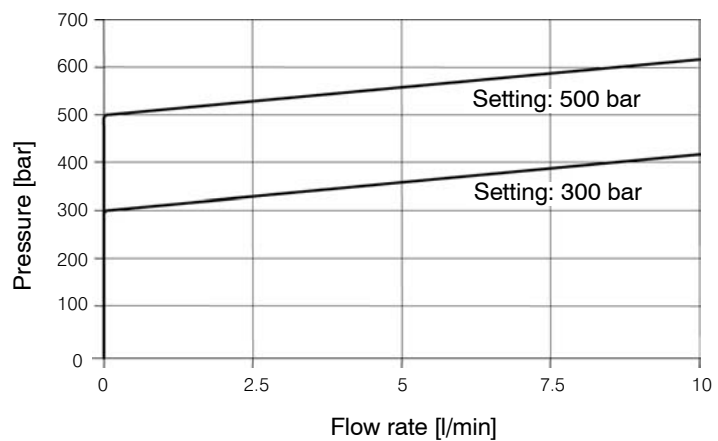
26.4.1 Δp from A $\rightarrow$ B (Lifting)



26.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



26.4.3 Opening characteristic of the thermal expansion pressure relief (UVP-4)



27. Description Cindy-20-B-S...-L...-... (load pressure-compensated)

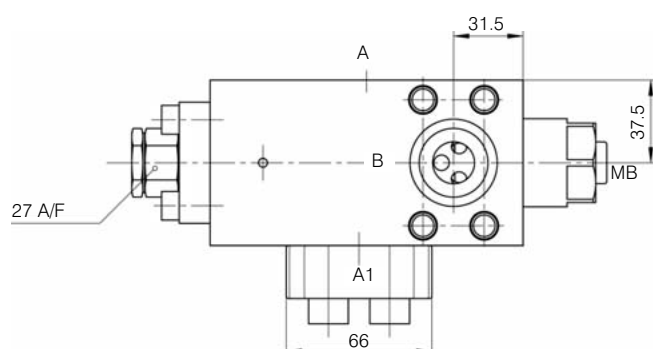
27.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1" 6000 psi	-
B	SAE 1" 6000 psi	3.53x32.92
X, L, L2, MB, MX	G 1/4"	-

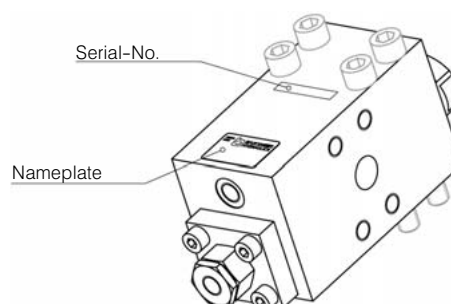
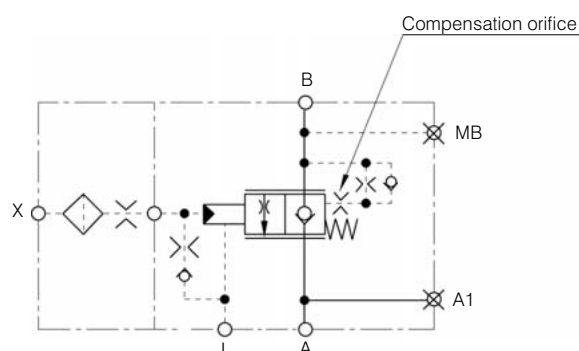
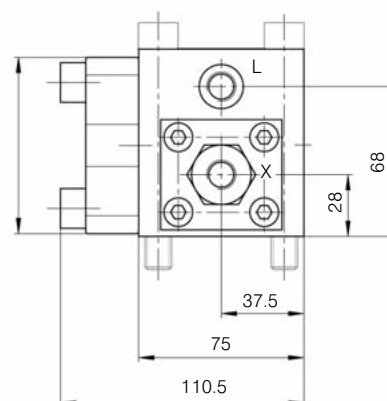
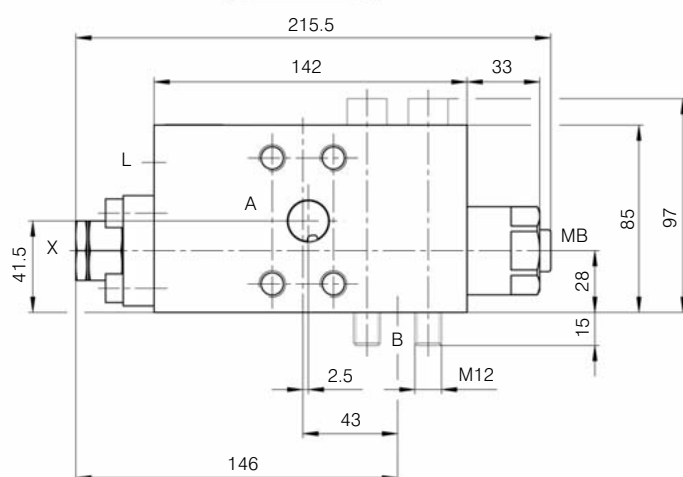
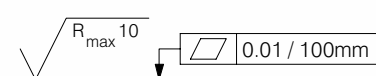
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx.. 7.6 kg

27.2 Standard model

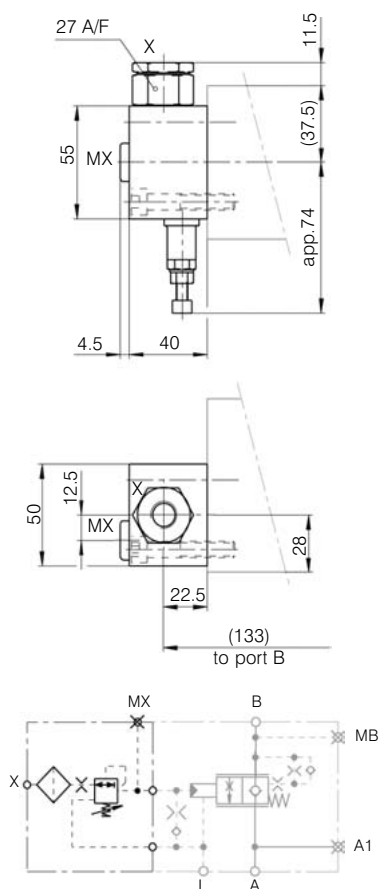


Required quality of the mating surface:

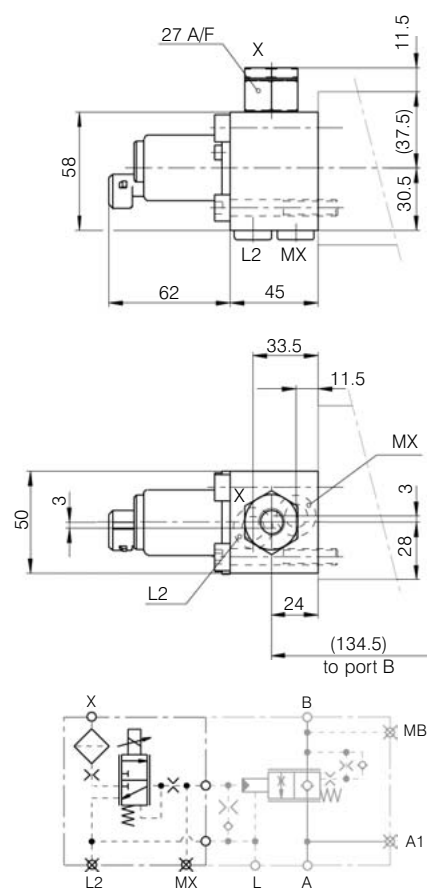


27.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve" (R)

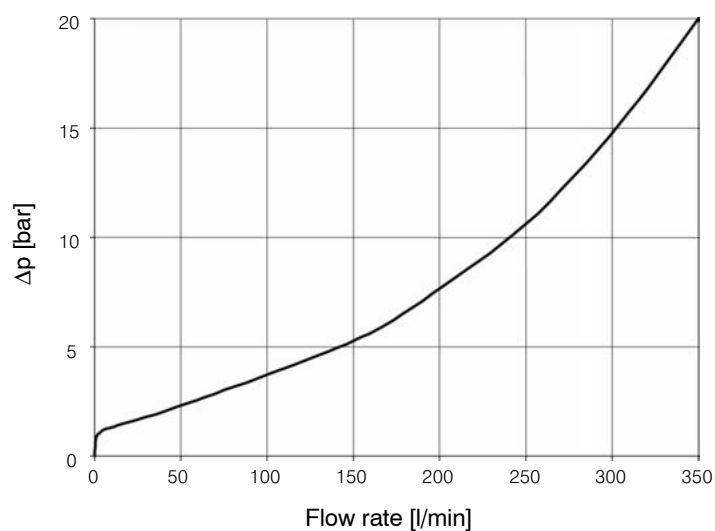


Pilot-control with the "electro-proportional pressure reducing valve" (E)

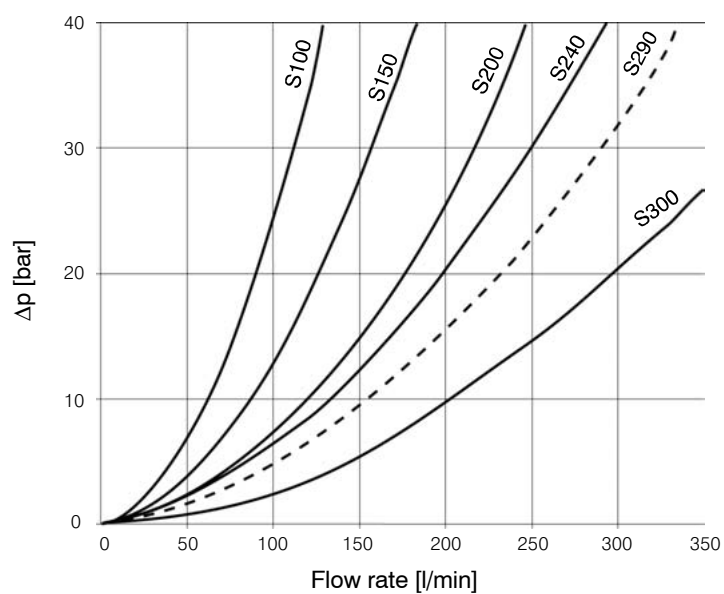


27.4 Characteristic curves (measured at 33 mm²/s [cSt])

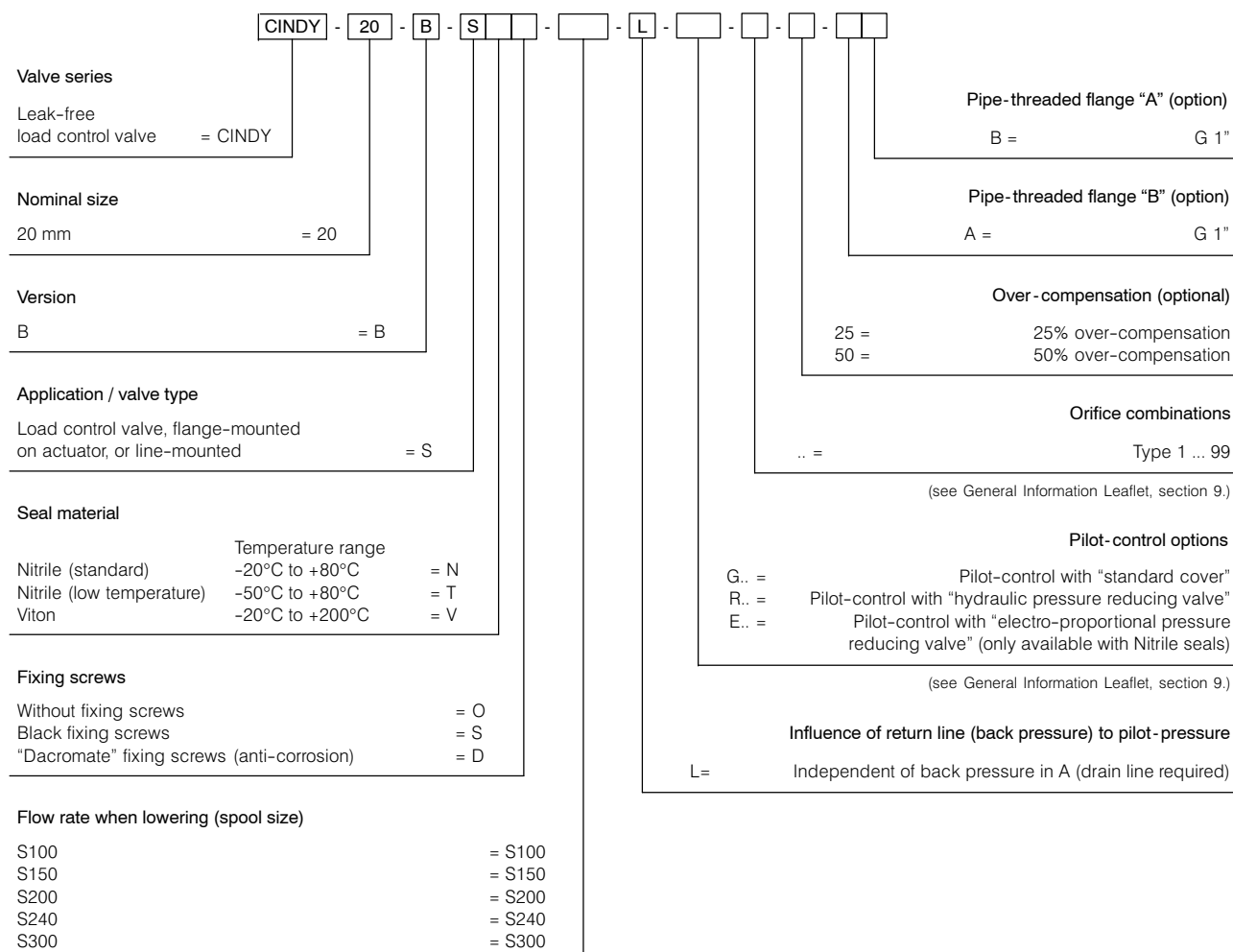
27.4.1 Δp from A $\rightarrow$ B (Lifting)



27.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



27.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010219.....	300 6010287.....	300 6010333.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-S-N-1-G 300.0306751	Service packages Cindy 20-B-S-V-1-G 300.0306788	Service packages Cindy 20-B-S-T-1-G 300.0306827
Pilot-control type R Art. No.	Service packages Cindy 20-B-S-N-1-R 300.0306753	Service packages Cindy 20-B-S-V-1-R 300.0306790	Service packages Cindy 20-B-S-T-1-R 300.0306829
Pilot-control type E Art. No.	Service packages Cindy 20-B-S-N-1-E 300.0306754	Only available with Nitrile seals	Only available with Nitrile seals
Optional A flange	300.0306804	300.0306807	300.0306810

28. Description Cindy-20-B-S-...-L-...-SVA... (load pressure-compensated)

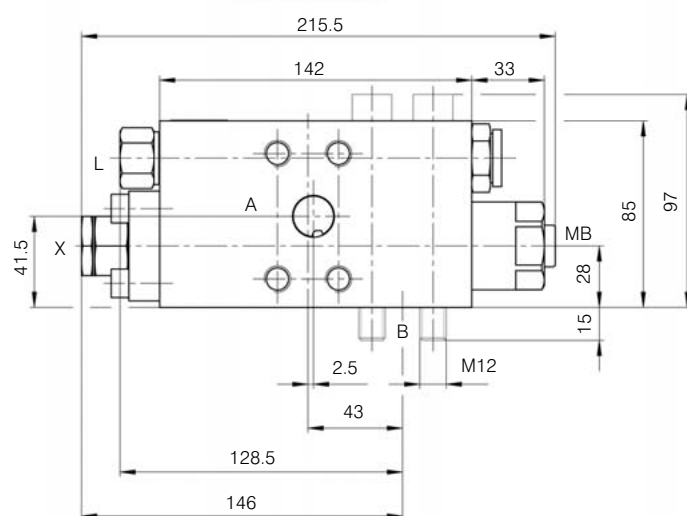
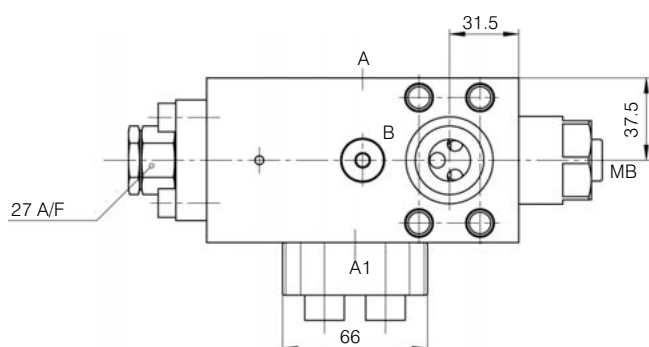
28.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1" 6000 psi	-
B	SAE 1" 6000 psi	3.53x32.92
X, L, L2, MB, MX	G 1/4"	-

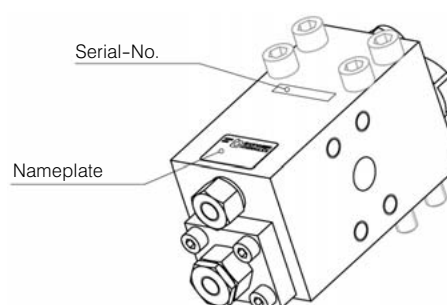
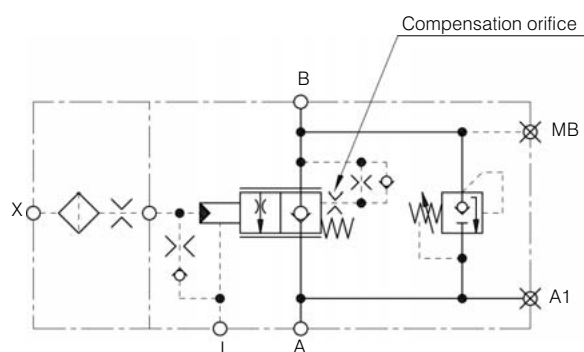
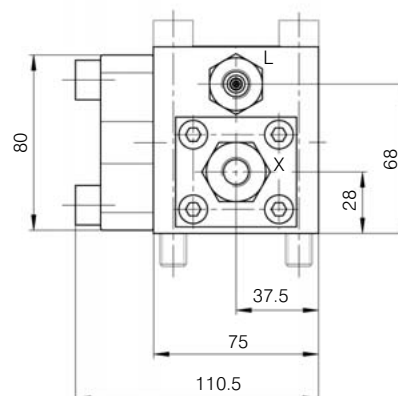
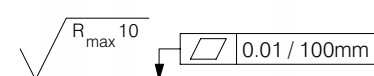
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.5 kg

28.2 Standard model

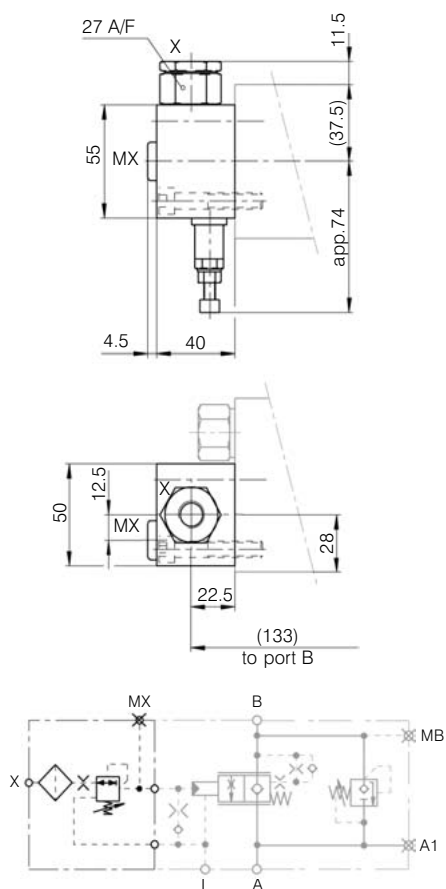


Required quality of the mating surface:

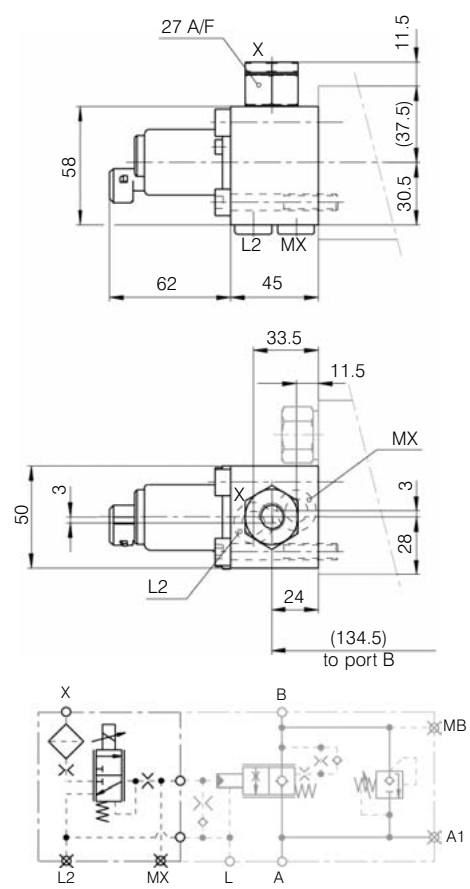


28.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve" (R)

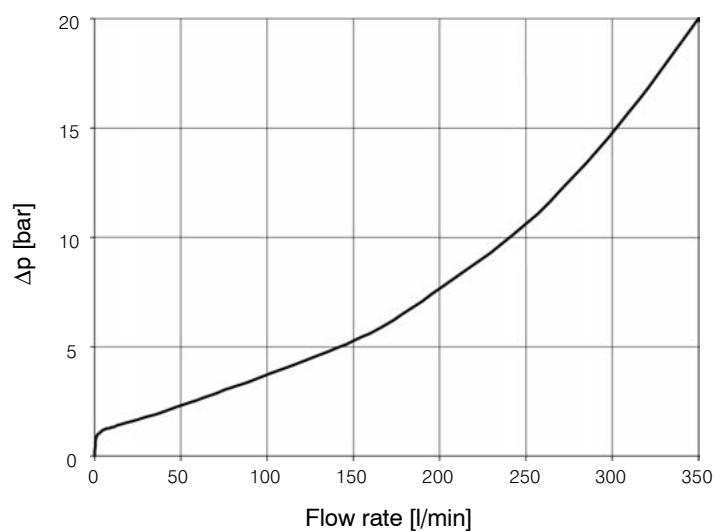


Pilot-control with the "electro-proportional pressure reducing valve" (E)

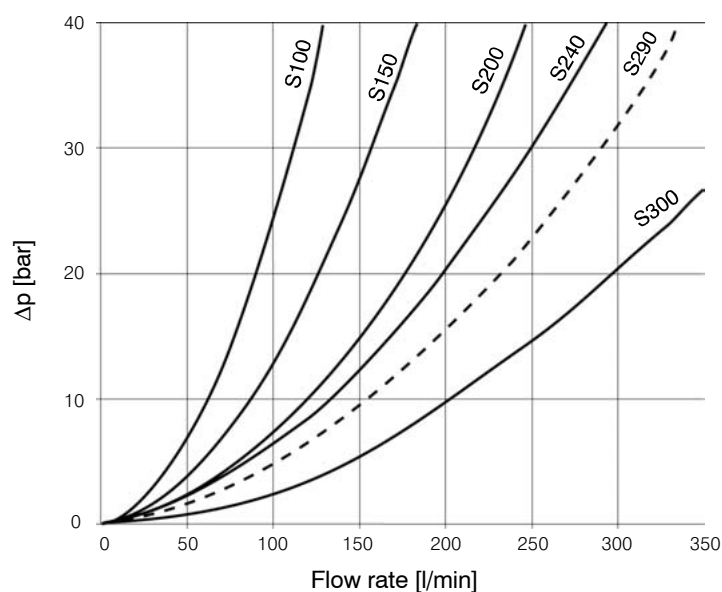


28.4 Characteristic curves (measured at 33 mm²/s [cSt])

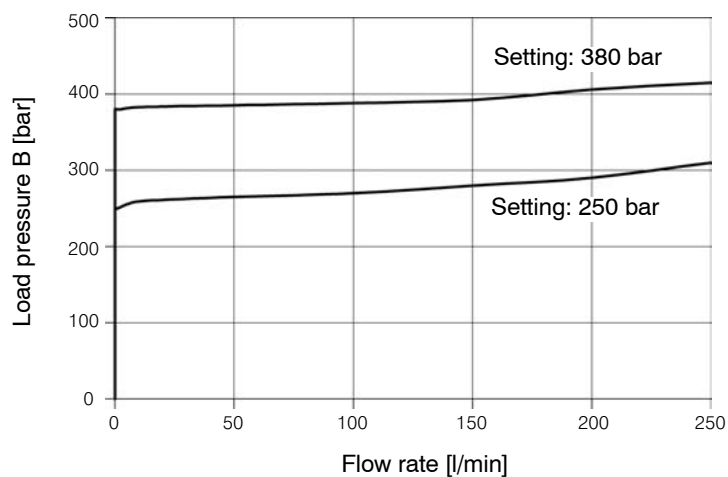
28.4.1 Δp from A $\rightarrow$ B (Lifting)



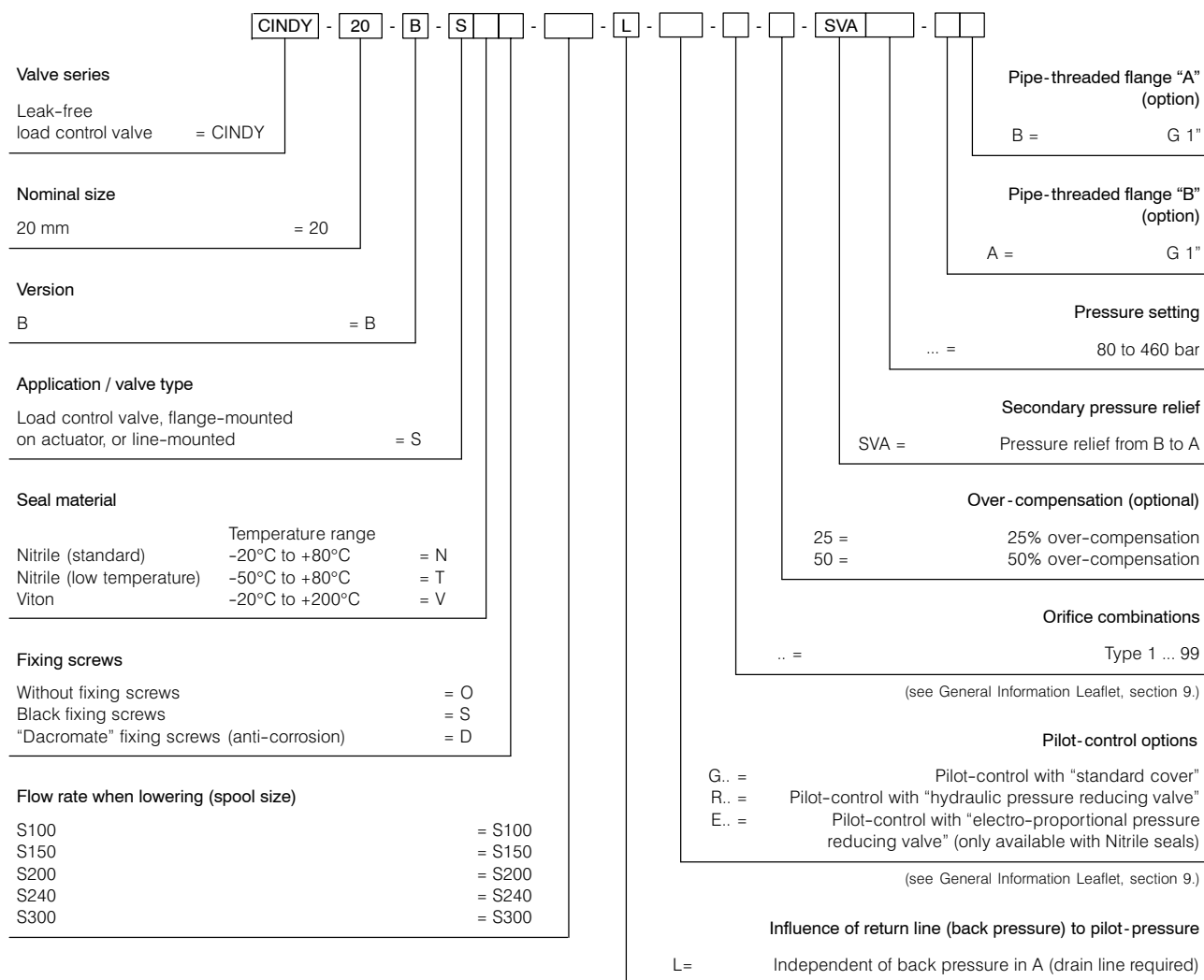
28.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



28.4.3 Opening characteristic of the secondary pressure relief valve



28.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010220.....	300 6010288.....	300 6010334.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-S-N-1-G 300.0306751	Service packages Cindy 20-B-S-V-1-G 300.0306788	Service packages Cindy 20-B-S-T-1-G 300.0306827
Pilot-control type R Art. No.	Service packages Cindy 20-B-S-N-1-R 300.0306753	Service packages Cindy 20-B-S-V-1-R 300.0306790	Service packages Cindy 20-B-S-T-1-R 300.0306829
Pilot-control type E Art. No.	Service packages Cindy 20-B-S-N-1-E 300.0306754	Only available with Nitrile seals	
Optional A flange	300.0306804	300.0306807	300.0306810

29. Description Cindy-20-B-S...-L...-SVT... (load pressure-compensated)

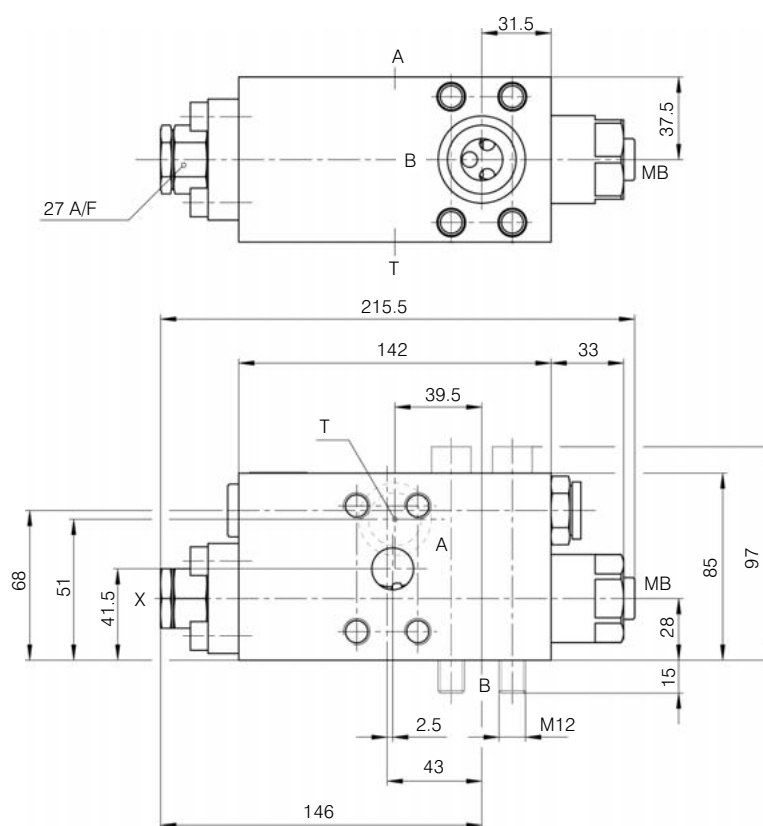
29.1 Port sizes / weight

Port	Port size	O-Ring
A	SAE 1" 6000 psi	-
B	SAE 1" 6000 psi	3.53x32.92
T	G 3/4"	-
X, L2, MB, MX	G 1/4"	-

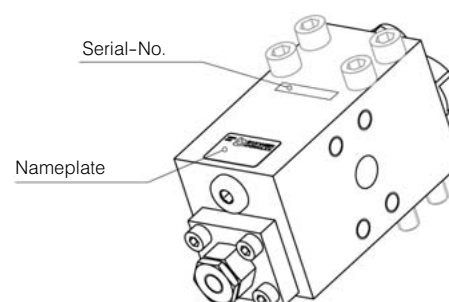
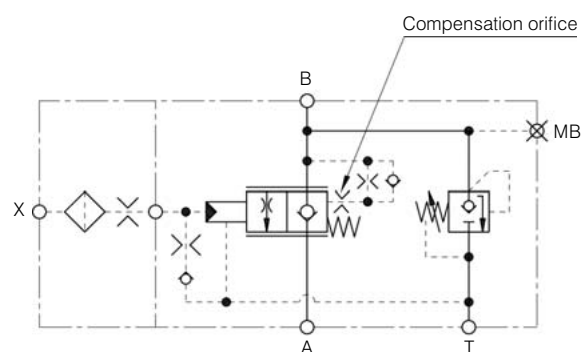
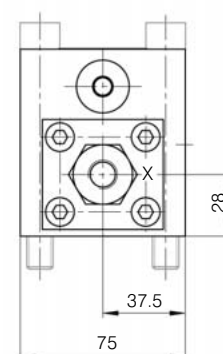
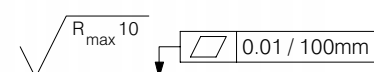
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

29.2 Standard model

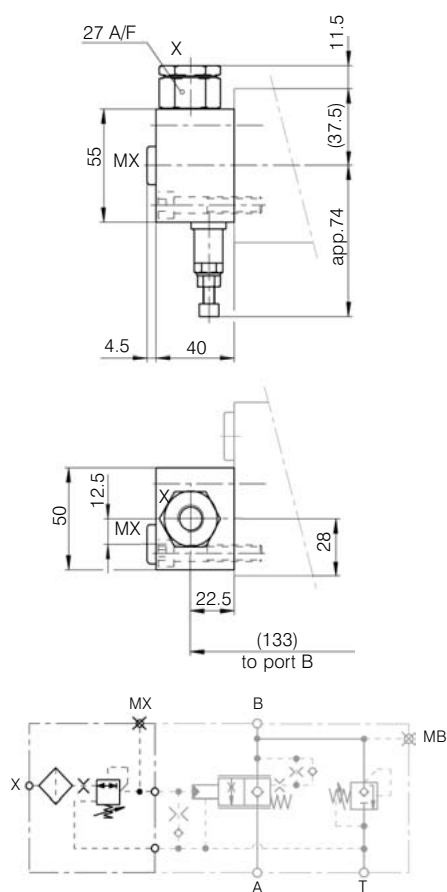


Required quality of the mating surface:

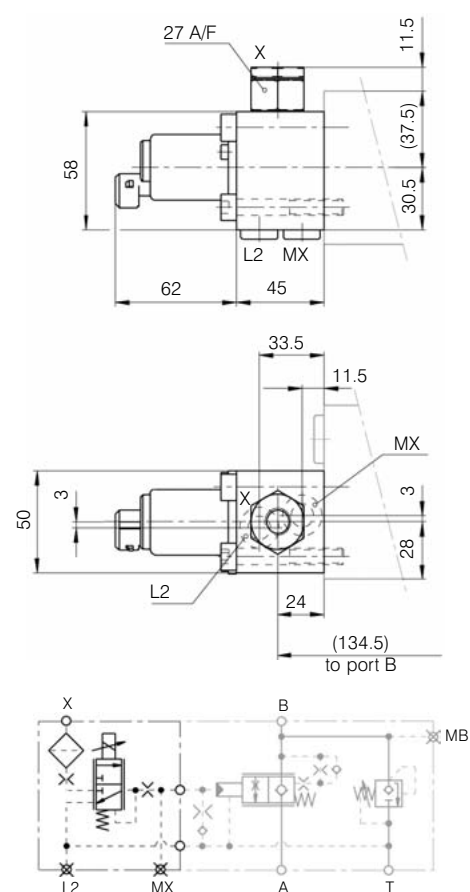


29.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve" (R)

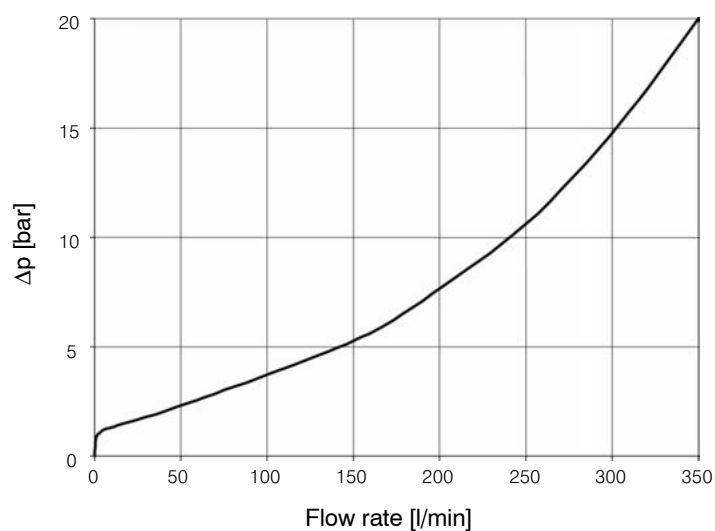


Pilot-control with the "electro-proportional pressure reducing valve" (E)

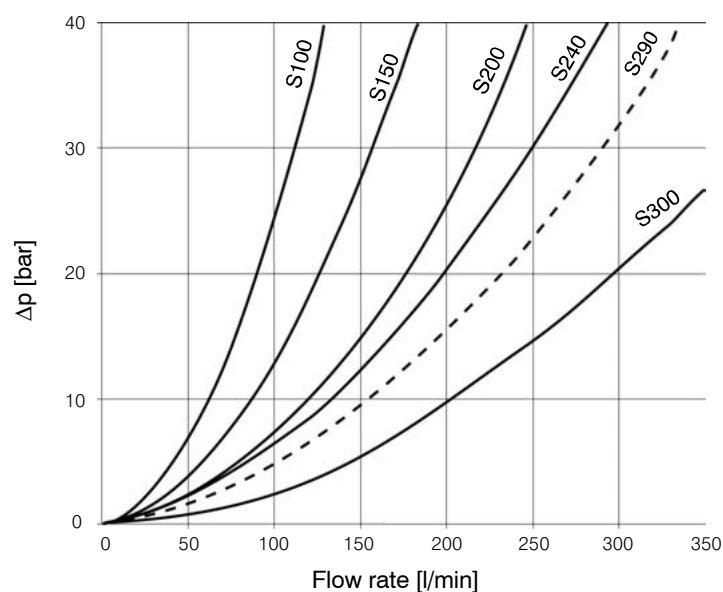


29.4 Characteristic curves (measured at 33 mm²/s [cSt])

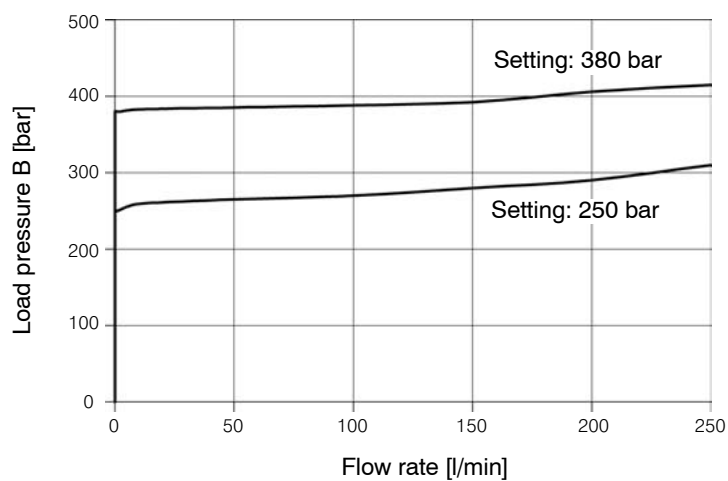
29.4.1 Δp from A $\rightarrow$ B (Lifting)



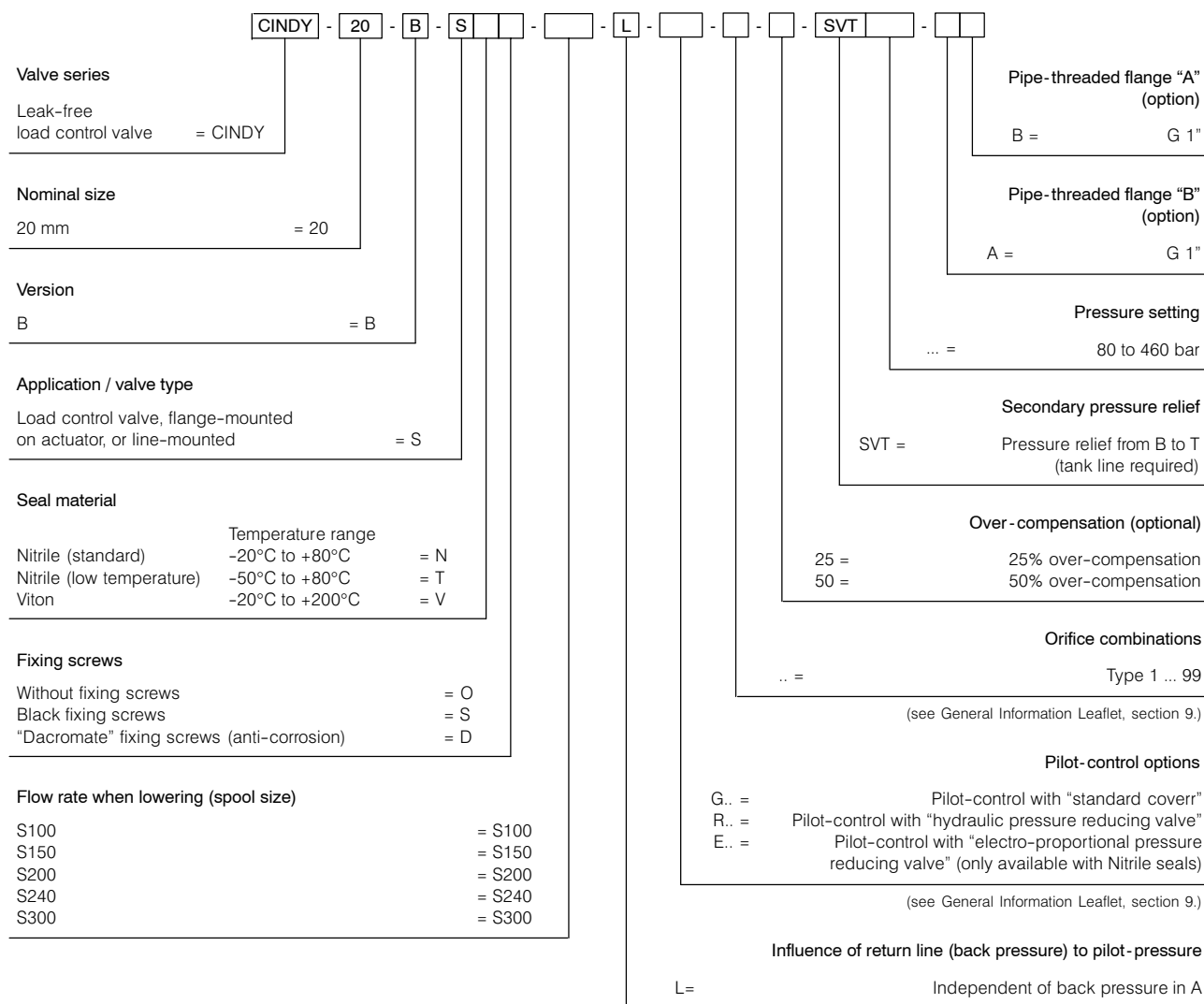
29.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



29.4.3 Opening characteristic of the secondary pressure relief valve



29.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010221.....	300 6010289.....	300 6010335.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-S-N-2-G 300.0306755	Service packages Cindy 20-B-S-V-2-G 300.0306791	Service packages Cindy 20-B-S-T-2-G 300.0306830
Pilot-control type R Art. No.	Service packages Cindy 20-B-S-N-2-R 300.0306757	Service packages Cindy 20-B-S-V-2-R 300.0306793	Service packages Cindy 20-B-S-T-2-R 300.0306832
Pilot-control type E Art. No.	Service packages Cindy 20-B-S-N-2-E 300.0306758	Only available with Nitrile seals	
Optional A flange	300.0306804	300.0306807	300.0306810

30. Description Cindy-20-B-S...-L...-SVZ... (load pressure-compensated)

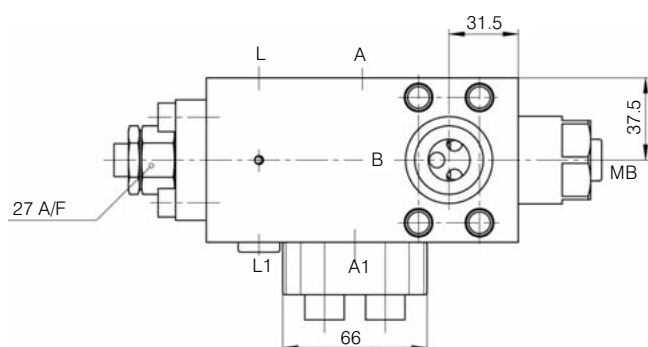
30.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1" 6000 psi	-
B	SAE 1" 6000 psi	3.53x32.92
X, L, L1, L2, MB, MX	G 1/4"	-

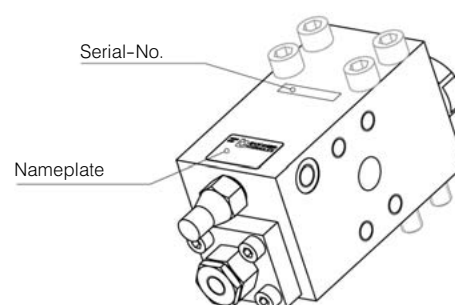
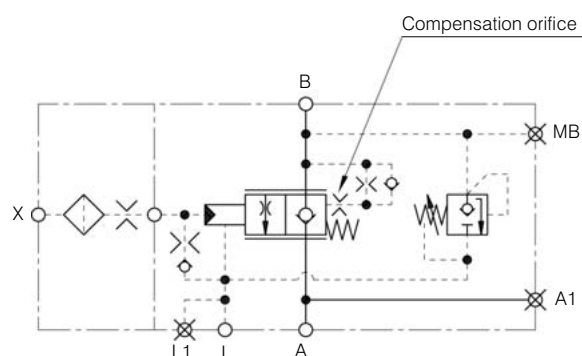
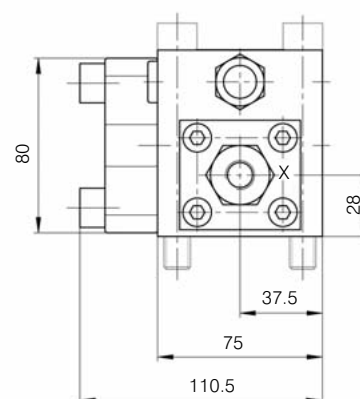
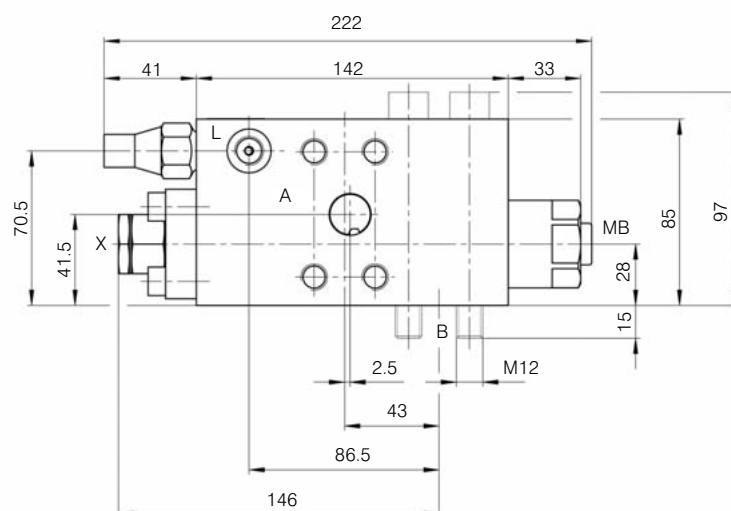
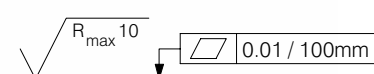
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 7.6 kg

30.2 Standard model

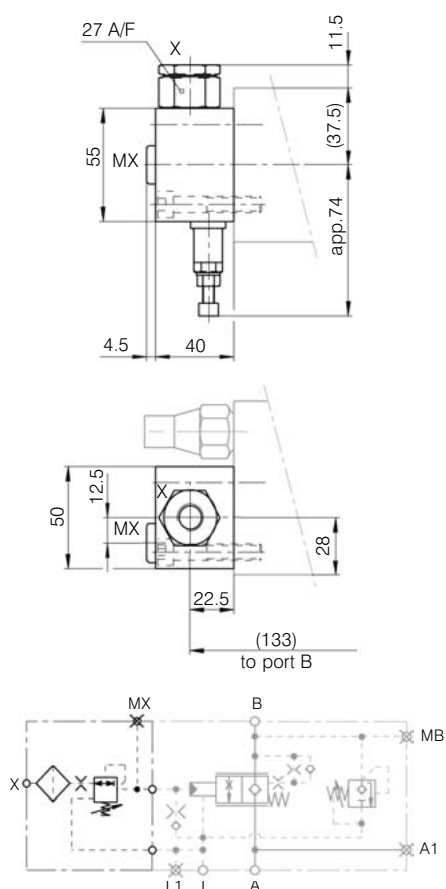


Required quality of the mating surface:

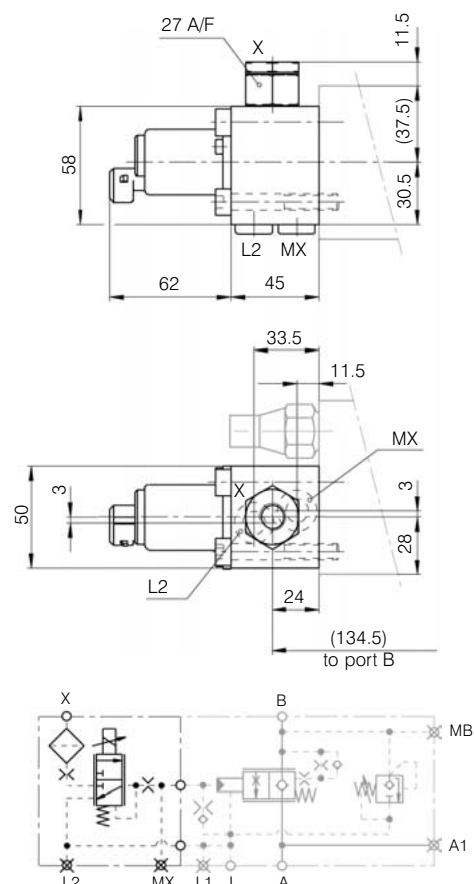


30.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve" (R)

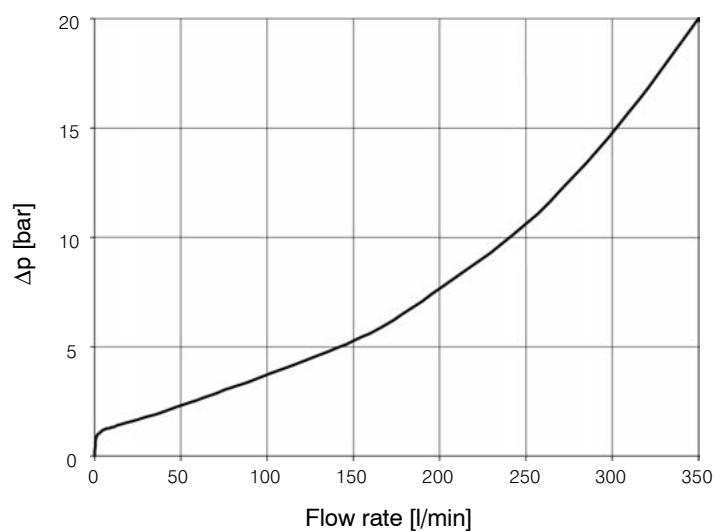


Pilot-control with the "electro-proportional pressure reducing valve" (E)

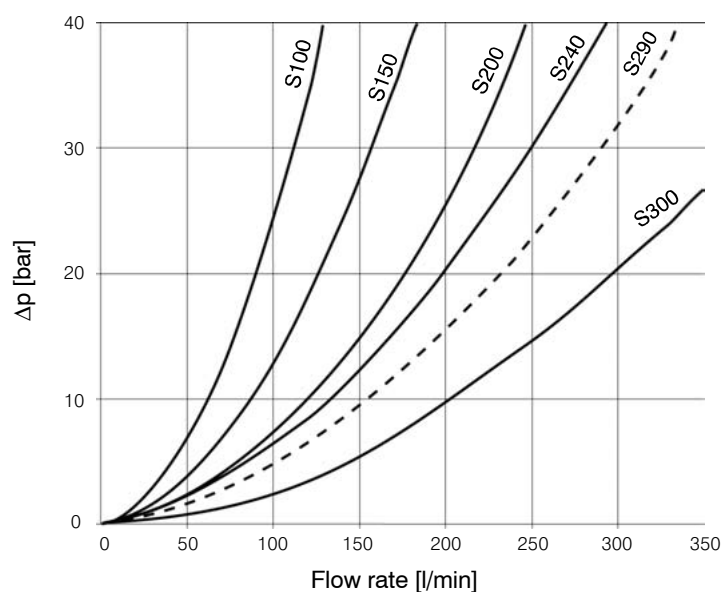


30.4 Characteristic curves (measured at 33 mm²/s [cSt])

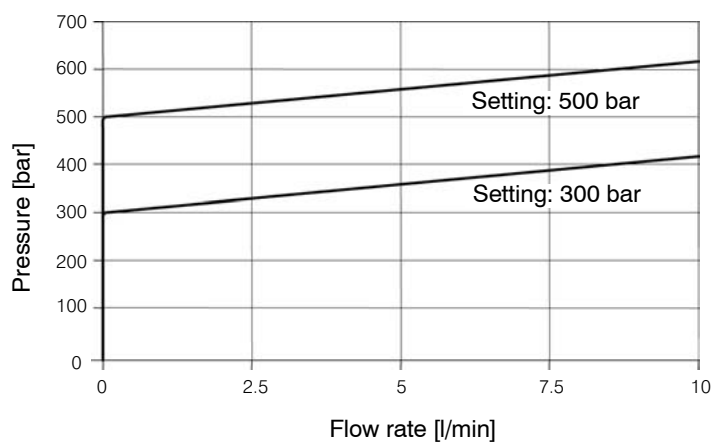
30.4.1 Δp from A $\rightarrow$ B (Lifting)



30.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)

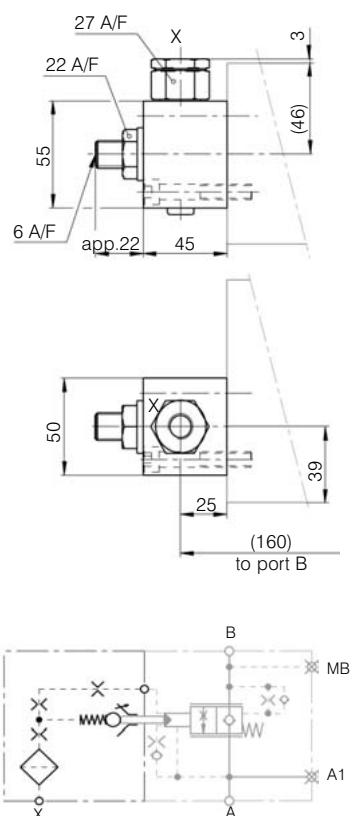


30.4.3 Opening characteristic of the thermal expansion pressure relief (UVP-4)

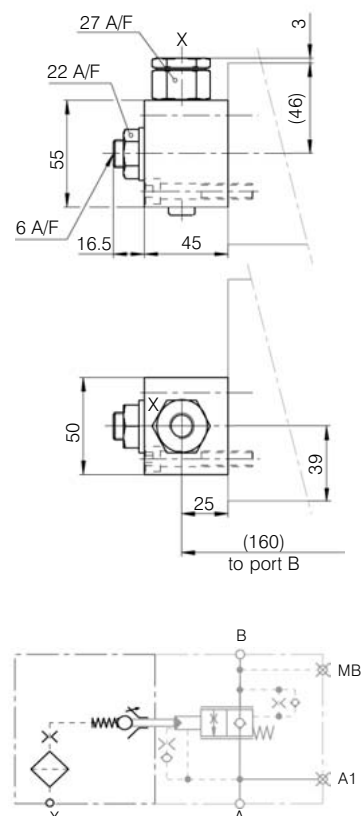


31.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

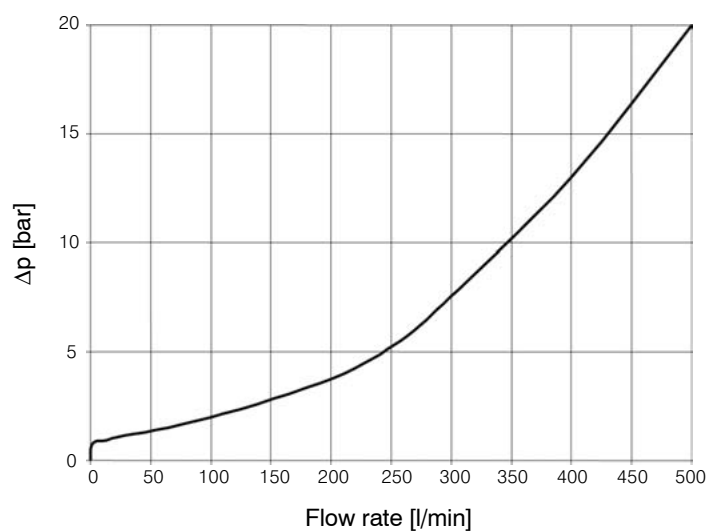


Pilot-control with the "hydro-mechanical stroke limiter" (H)

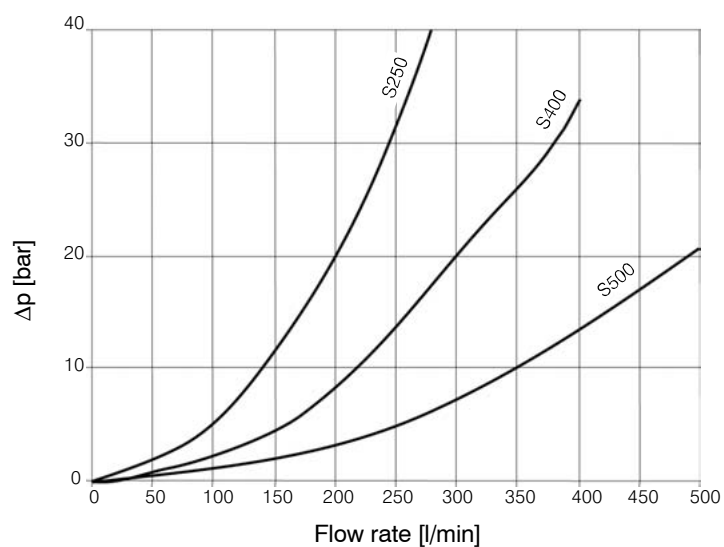


31.4 Characteristic curves (measured at 33 mm²/s [cSt])

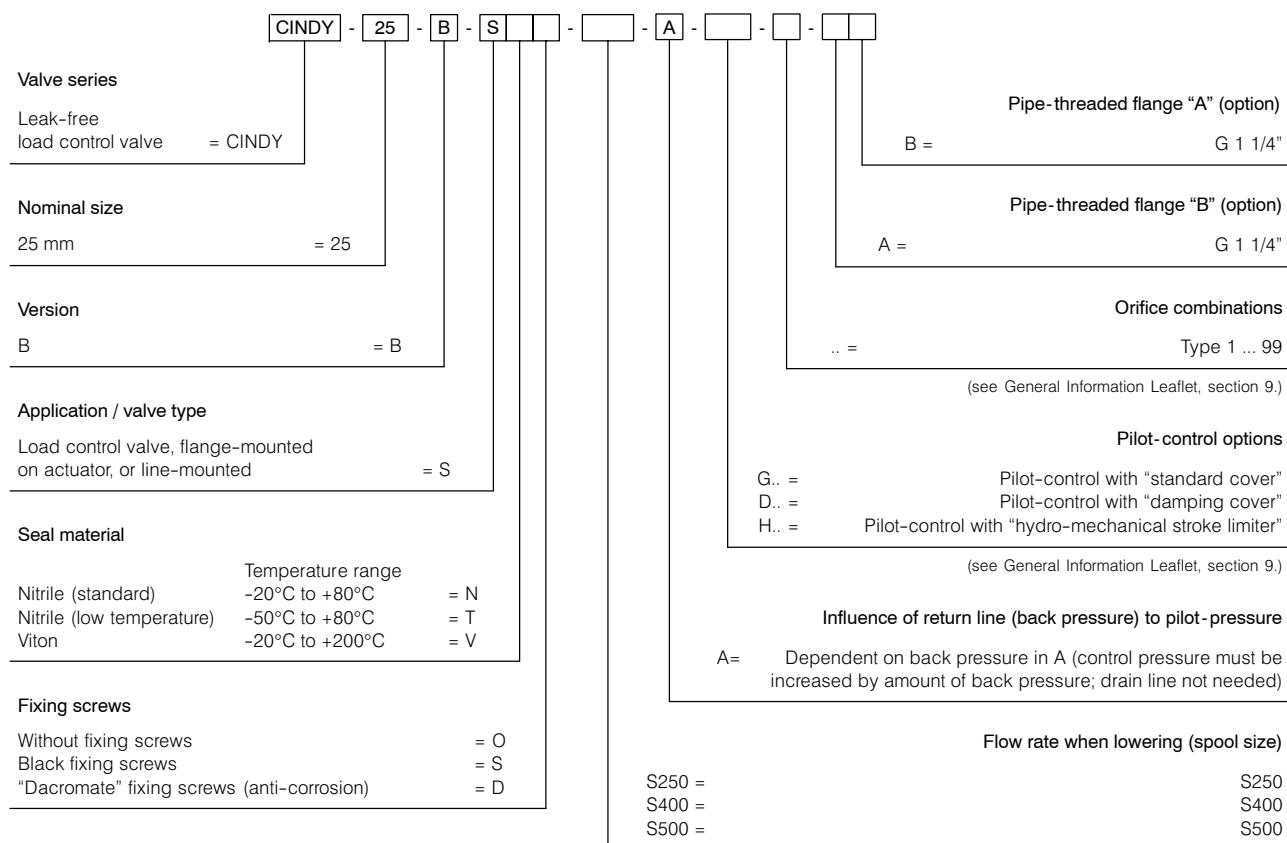
31.4.1 Δp from A $\rightarrow$ B (Lifting)



31.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



31.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010223.....	300 6010291.....	300 6010337.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-S-N-1-G 300.0306759	Service packages Cindy 25-B-S-V-1-G 300.0306794	Service packages Cindy 25-B-S-T-1-G 300.0306833
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-S-N-1-D 300.0306760	Service packages Cindy 25-B-S-V-1-D 300.0306795	Service packages Cindy 25-B-S-T-1-D 300.0306834
Optional A flange	300.0306805	300.0306808	300.0306811

32. Description Cindy-25-B-S...-L-...-

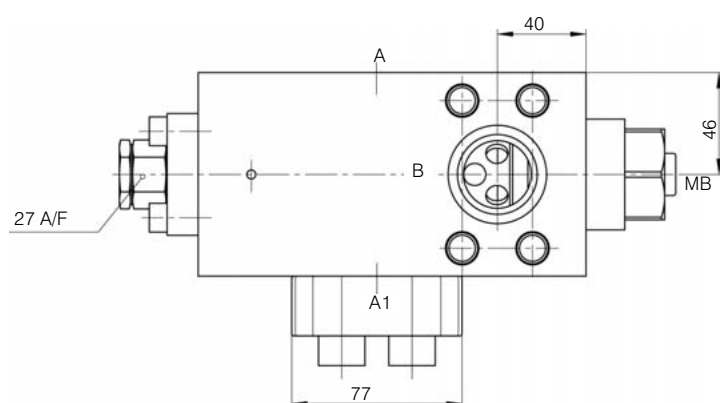
32.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1 1/4" 6000 psi	-
B	SAE 1 1/4" 6000 psi	3.53x37.69
X, L, L2, MB, MX	G 1/4"	-

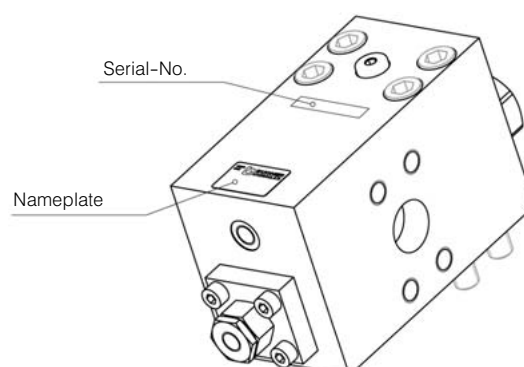
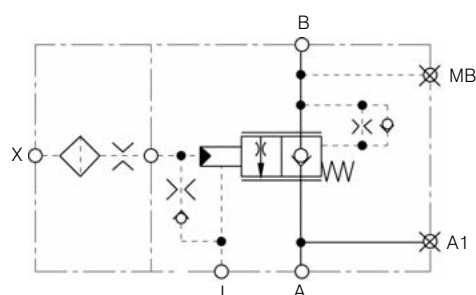
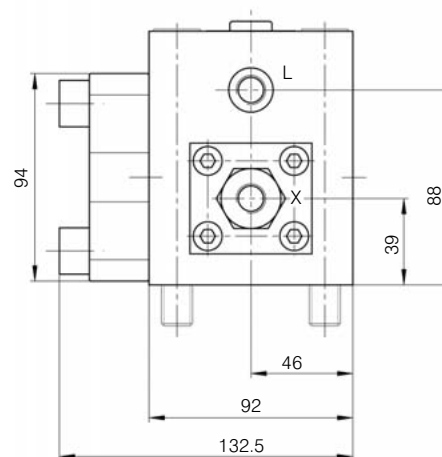
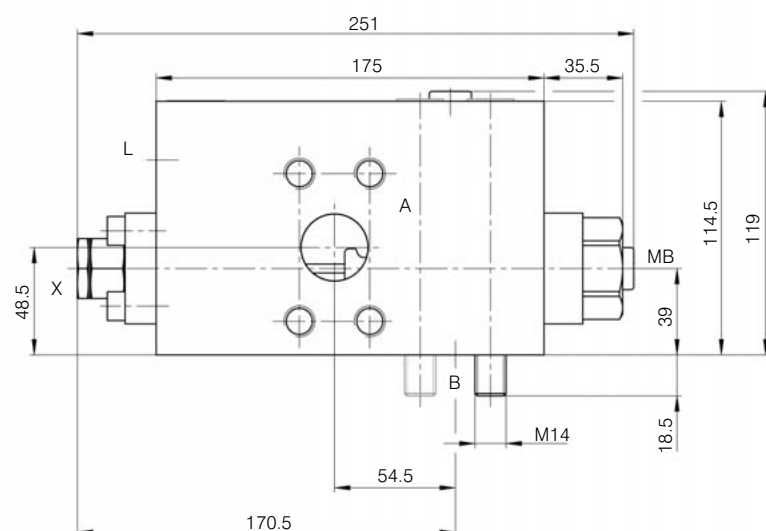
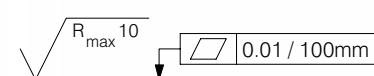
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 13.9 kg

32.2 Standard model

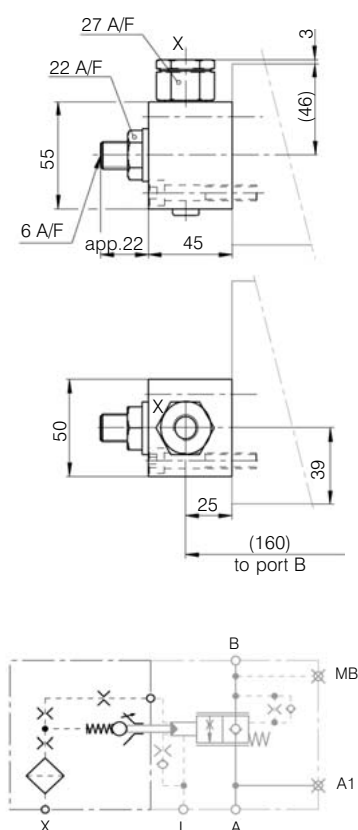


Required quality of the mating surface:

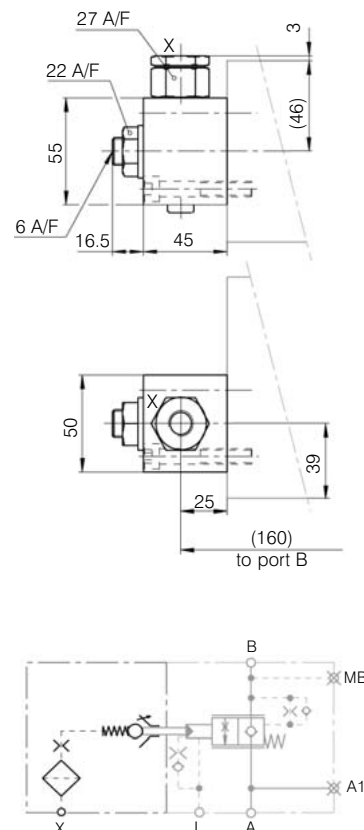


32.3 Pilot-control variants (each can be rotated through 180°)

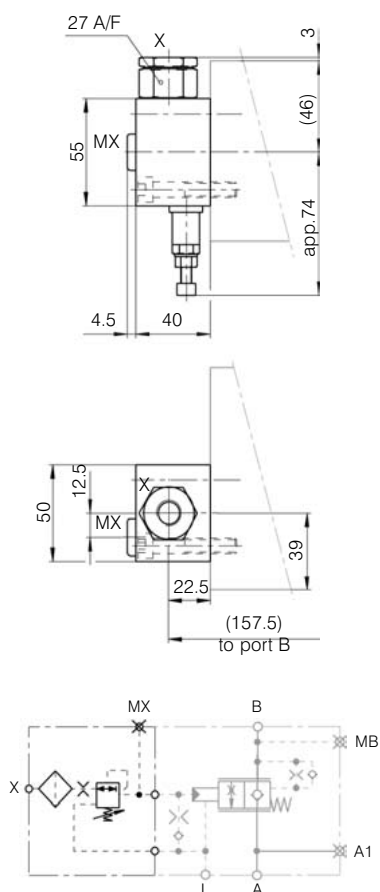
Pilot-control with the "damping cover" (D)



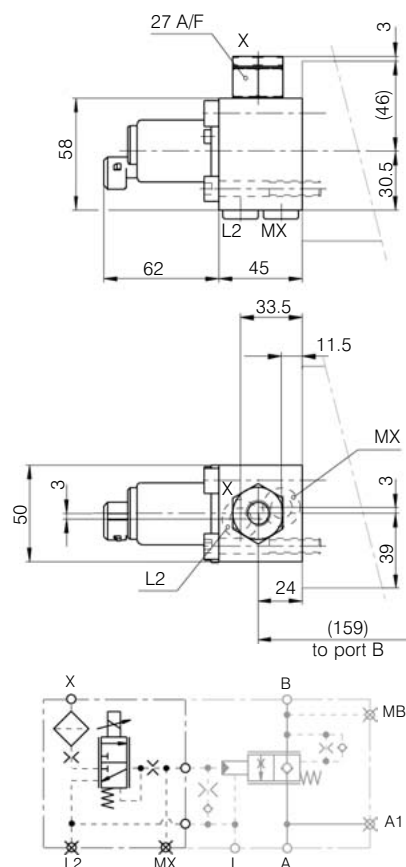
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

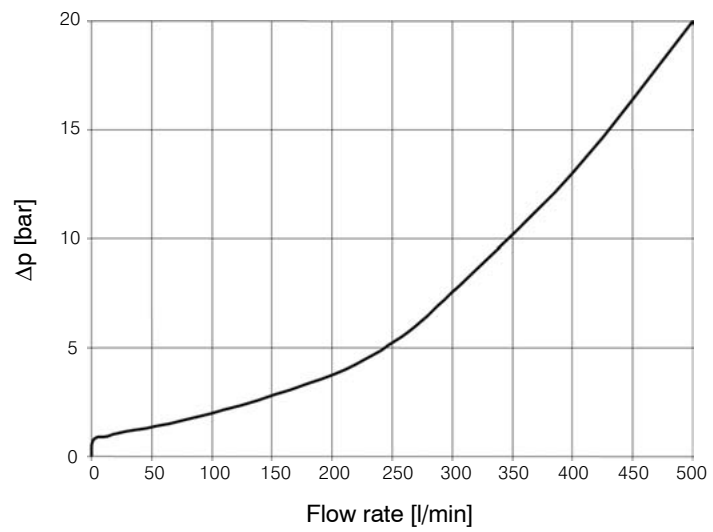


Pilot-control with the "electro-proportional pressure reducing valve" (E)

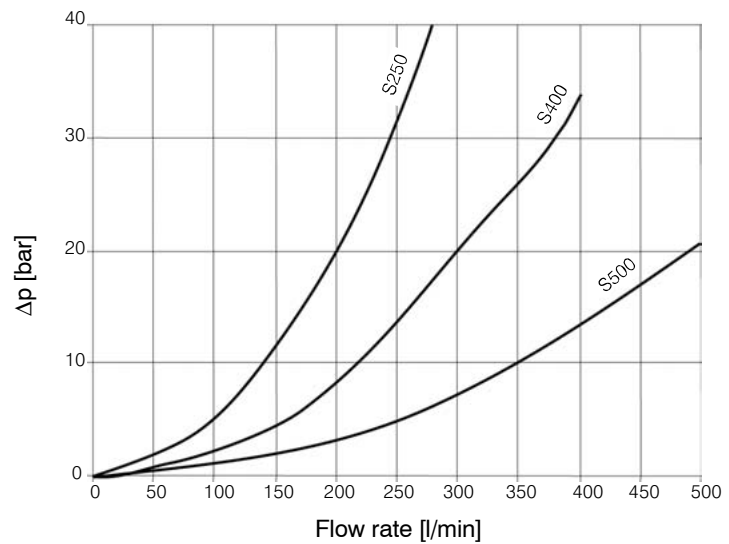


32.4 Characteristic curves (measured at 33 mm²/s [cSt])

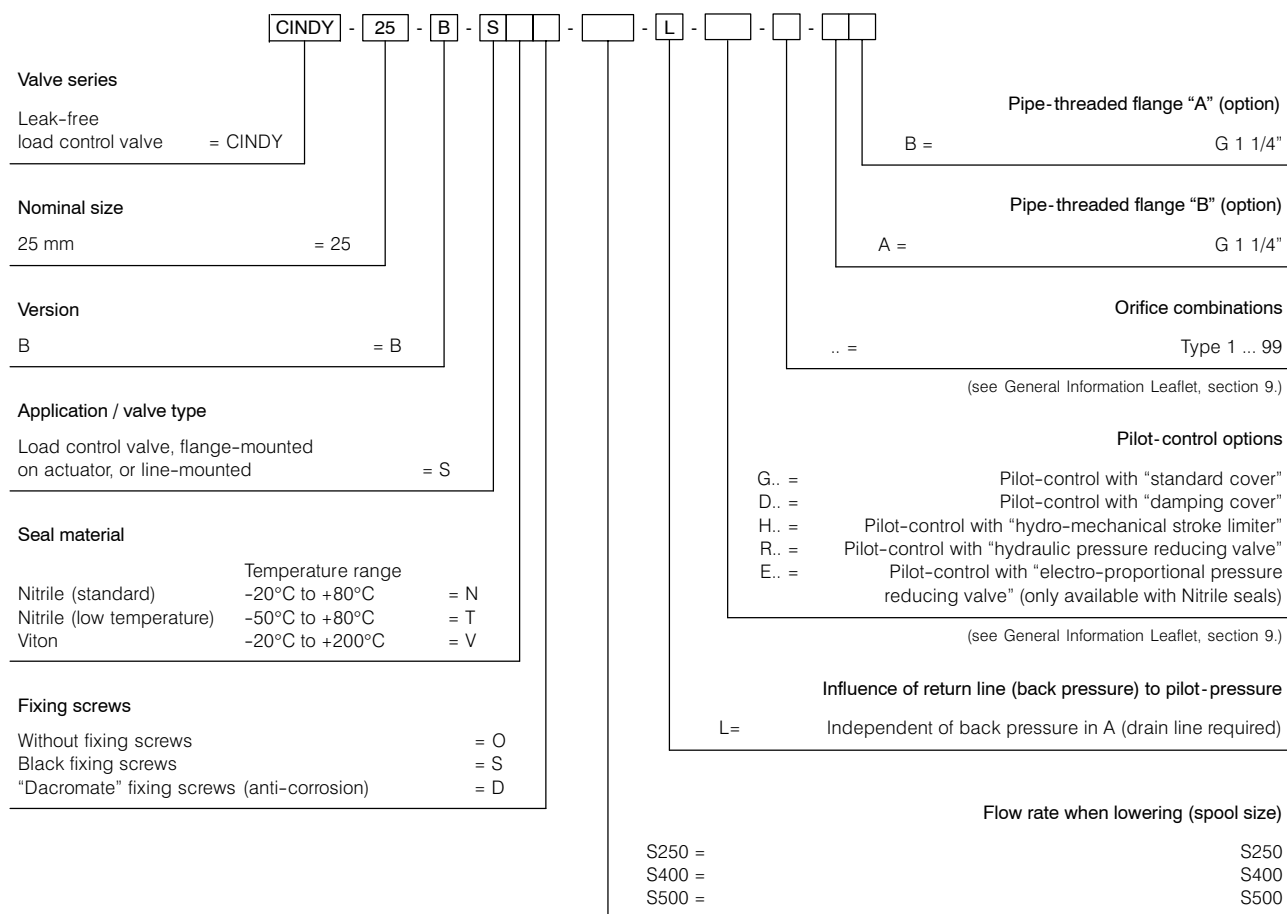
32.4.1 Δp from A $\rightarrow$ B (Lifting)



32.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



32.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010224.....	300 6010292.....	300 6010338.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-S-N-1-G 300.0306759	Service packages Cindy 25-B-S-V-1-G 300.0306794	Service packages Cindy 25-B-S-T-1-G 300.0306833
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-S-N-1-D 300.0306760	Service packages Cindy 25-B-S-V-1-D 300.0306795	Service packages Cindy 25-B-S-T-1-D 300.0306834
Pilot-control type R Art. No.	Service packages Cindy 25-B-S-N-1-R 300.0306761	Service packages Cindy 25-B-S-V-1-R 300.0306796	Service packages Cindy 25-B-S-T-1-R 300.0306835
Pilot-control type E Art. No.	Service packages Cindy 25-B-S-N-1-E 300.0306762	Only available with Nitrile seals	
Optional A flange	300.0306805	300.0306808	300.0306811

33. Description Cindy-25-B-S...-A-...-SVA...

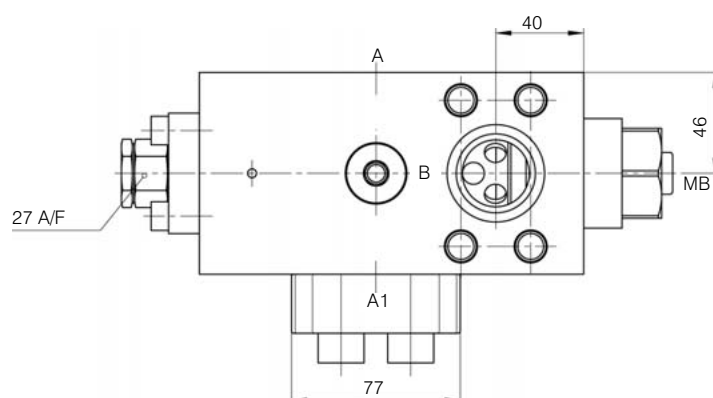
33.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1 1/4" 6000 psi	-
B	SAE 1 1/4" 6000 psi	3.53x37.69
X, MB	G 1/4"	-

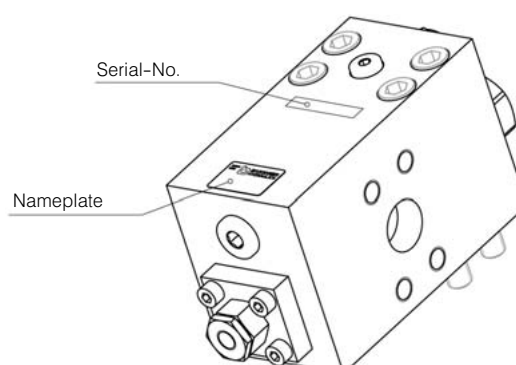
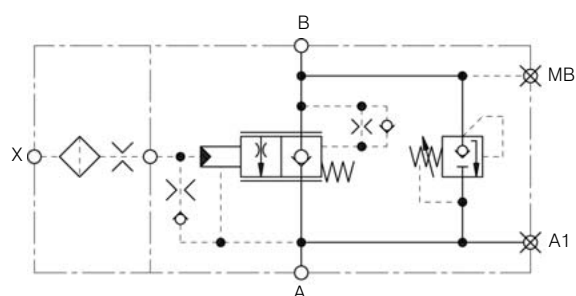
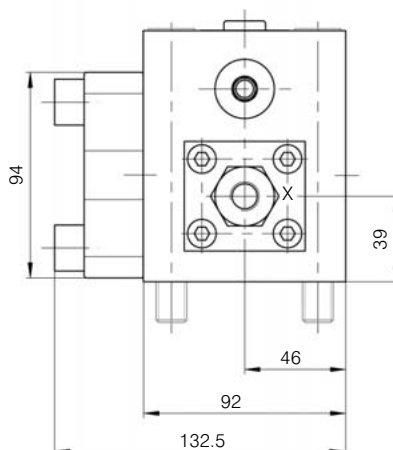
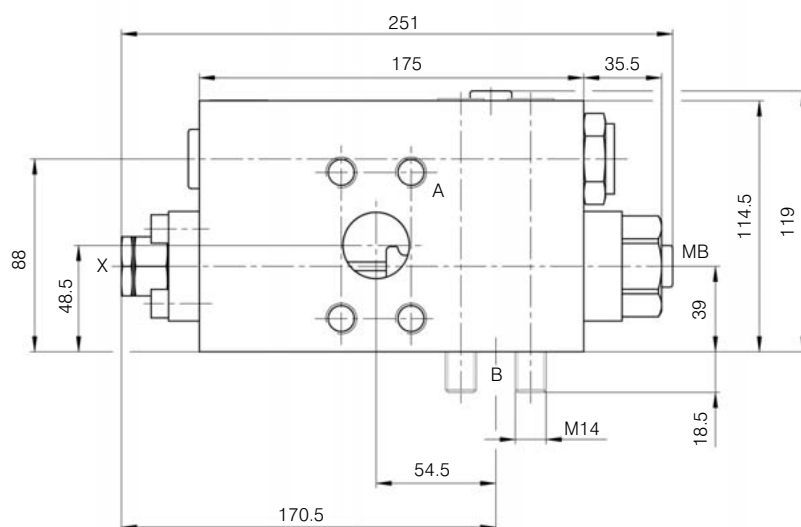
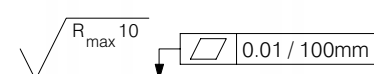
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 13.7 kg

33.2 Standard model

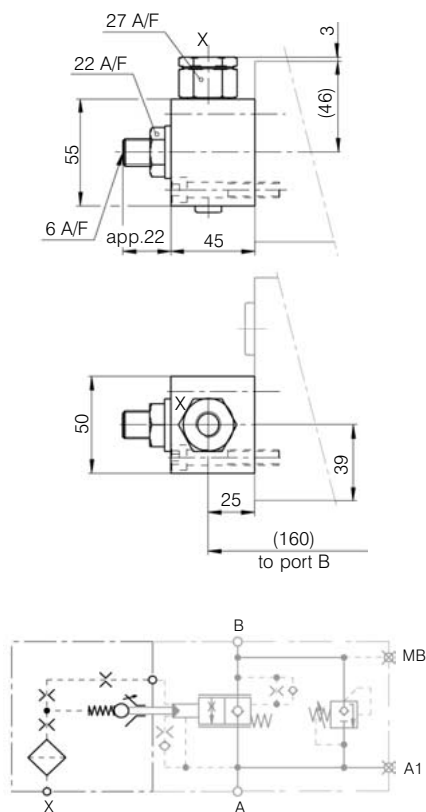


Required quality of the mating surface:

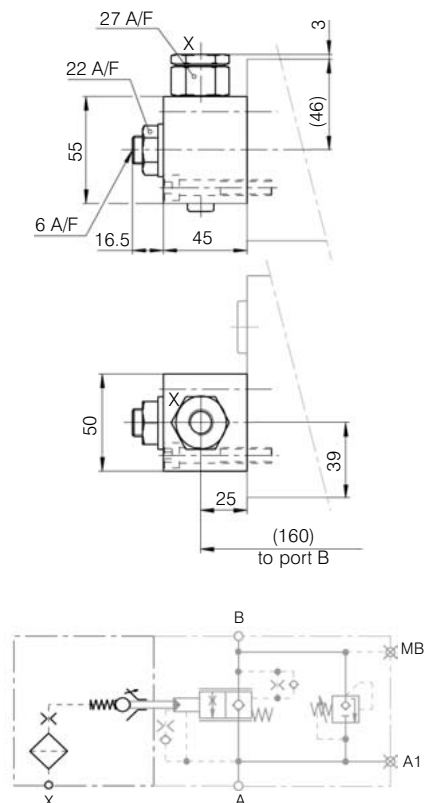


33.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

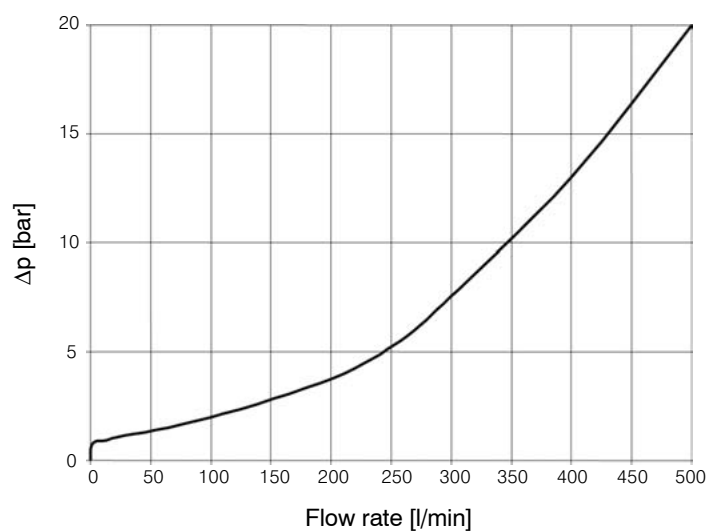


Pilot-control with the "hydro-mechanical stroke limiter" (H)

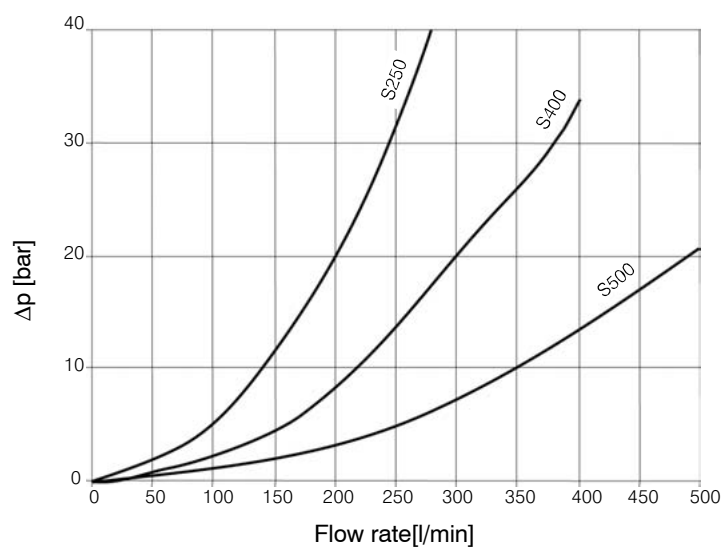


33.4 Characteristic curves (measured at 33 mm²/s [cSt])

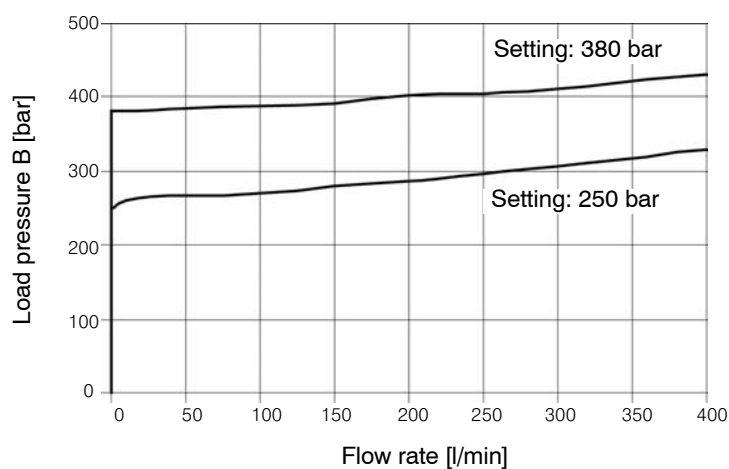
33.4.1 Δp from A $\rightarrow$ B (Lifting)



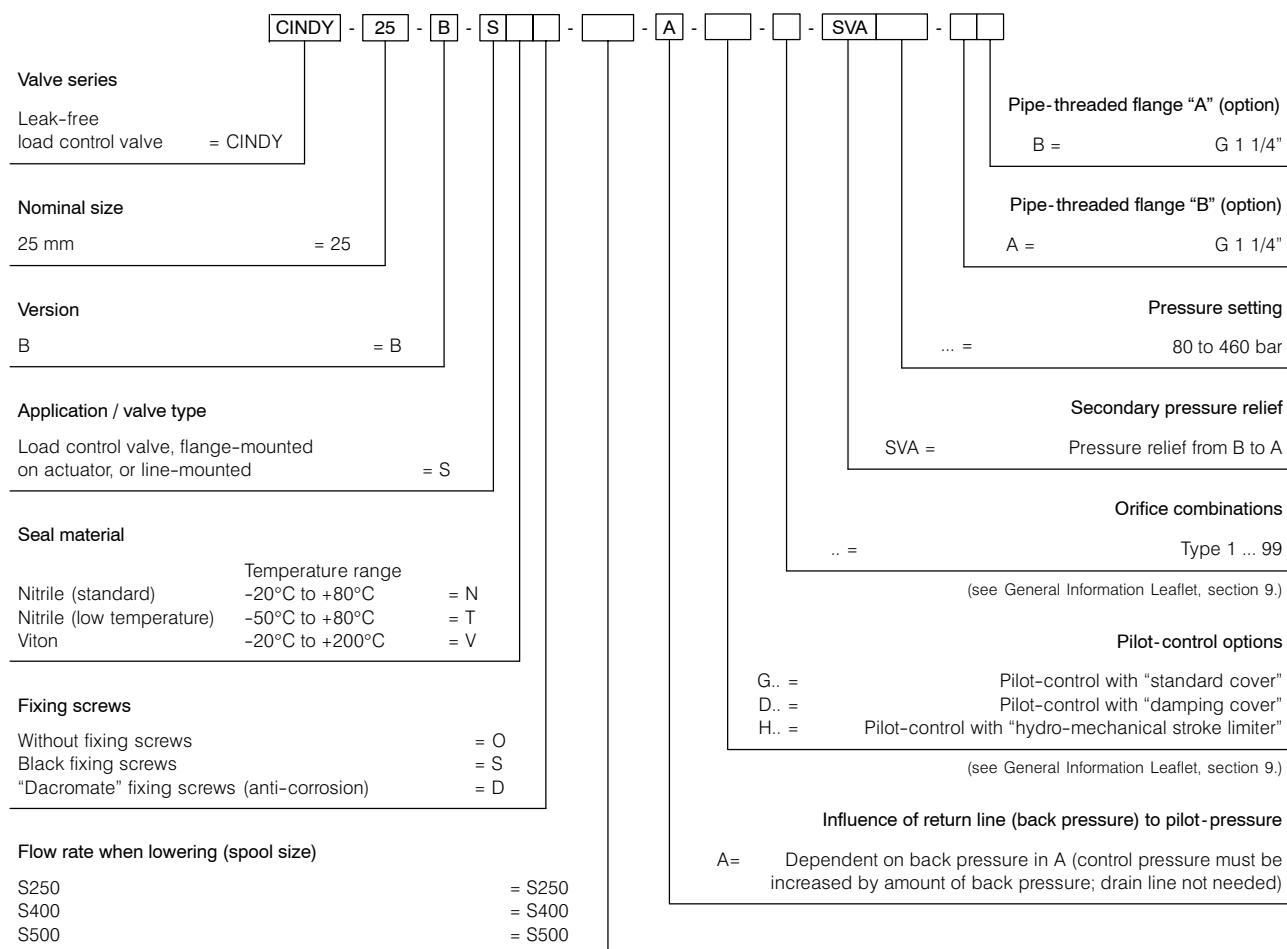
33.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



33.4.3 Opening characteristic of the secondary pressure relief valve



33.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010225.....	300 6010293.....	300 6010339.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-S-N-2-G 300.0306763	Service packages Cindy 25-B-S-V-2-G 300.0306797	Service packages Cindy 25-B-S-T-2-G 300.0306836
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-S-N-2-D 300.0306764	Service packages Cindy 25-B-S-V-2-D 300.0306798	Service packages Cindy 25-B-S-T-2-D 300.0306837
Optional A flange	300.0306805	300.0306808	300.0306811

34. Description Cindy-25-B-S...-L-...-SVA...

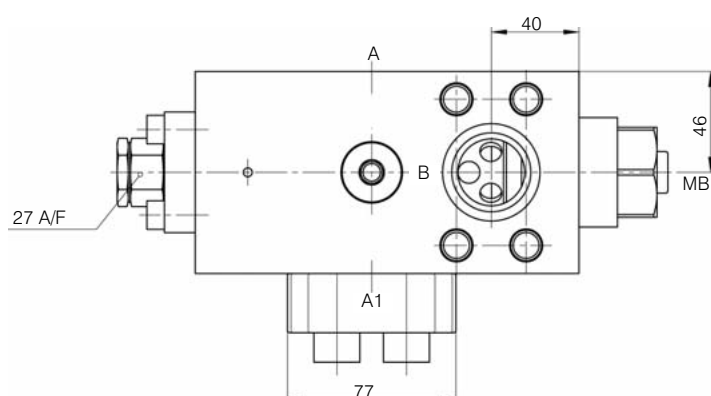
34.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1 1/4" 6000 psi	-
B	SAE 1 1/4" 6000 psi	3.53x37.69
X, L, L2, MB, MX	G 1/4"	-

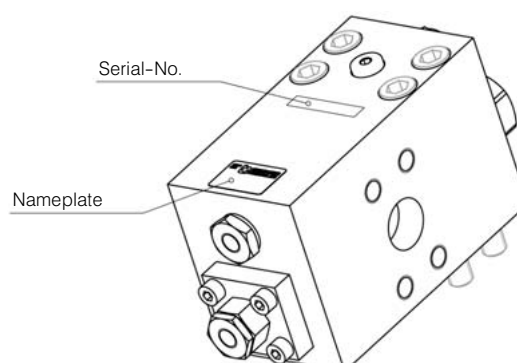
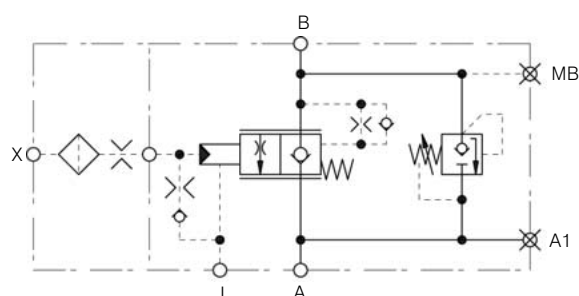
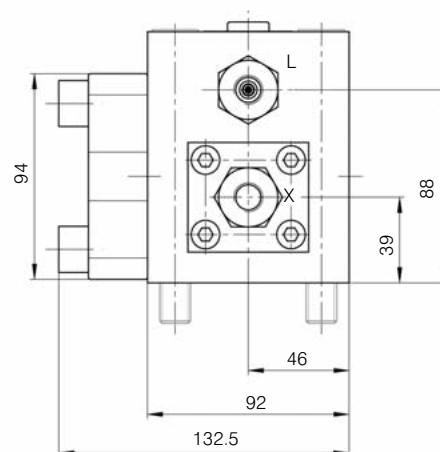
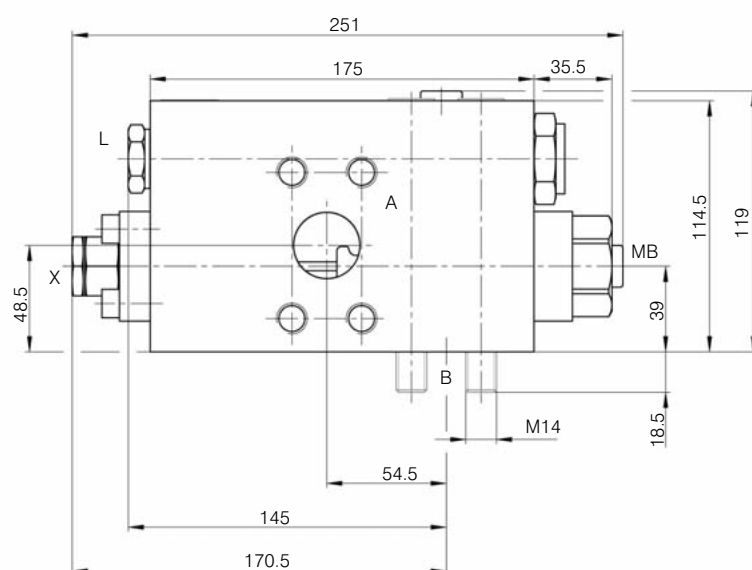
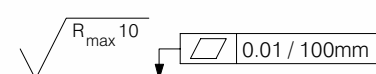
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 13.7 kg

34.2 Standard model

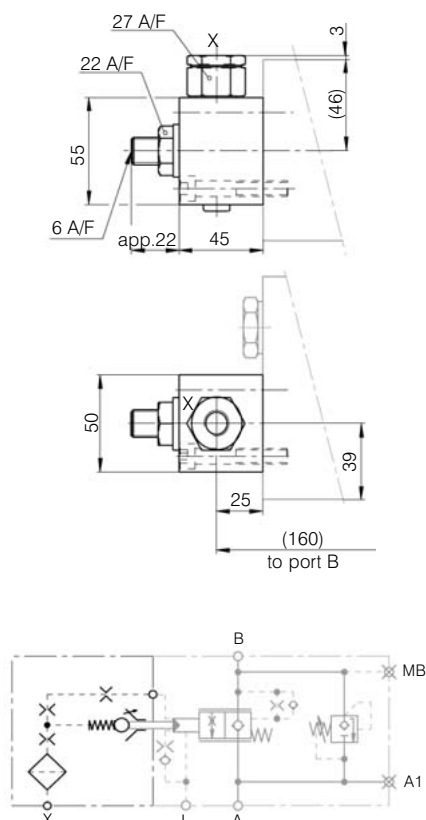


Required quality of the mating surface:

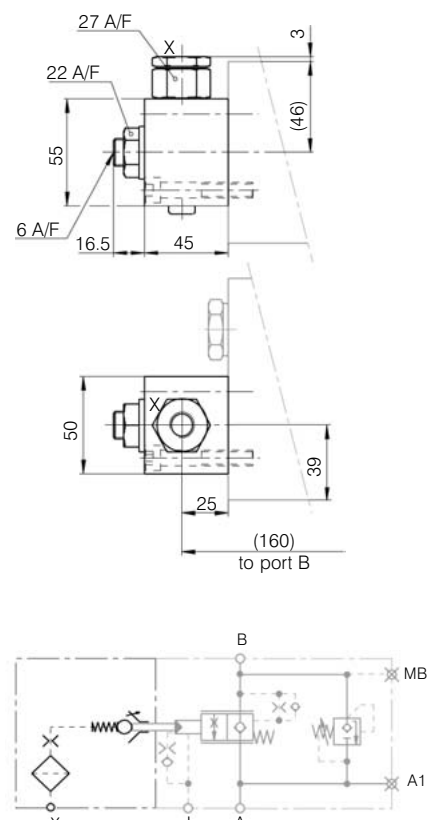


34.3 Pilot-control variants (each can be rotated through 180°)

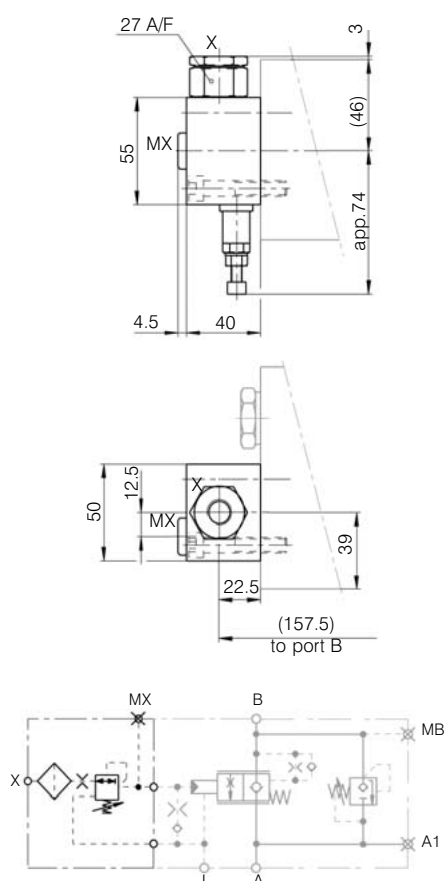
Pilot-control with the "damping cover" (D)



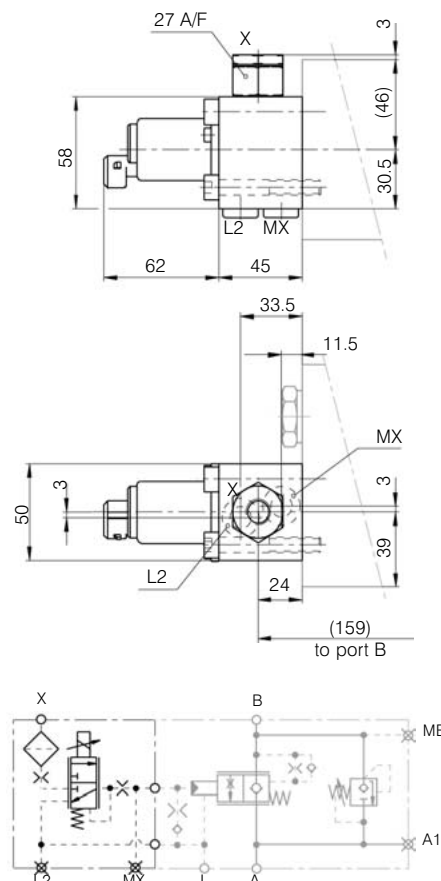
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

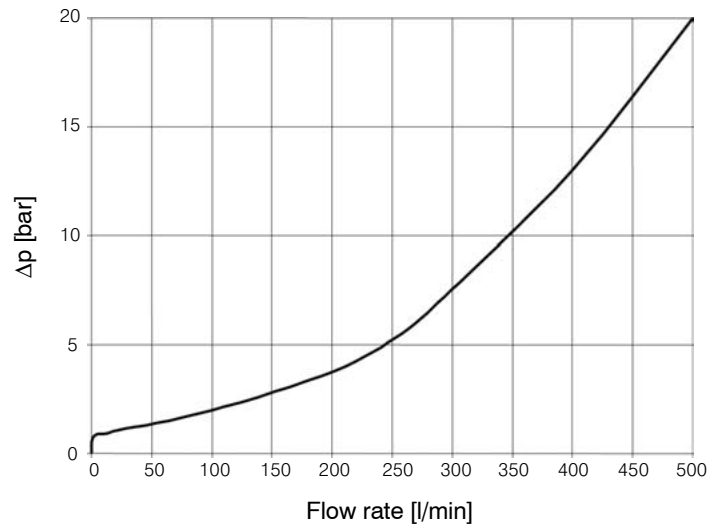


Pilot-control with the "electro-proportional pressure reducing valve" (E)

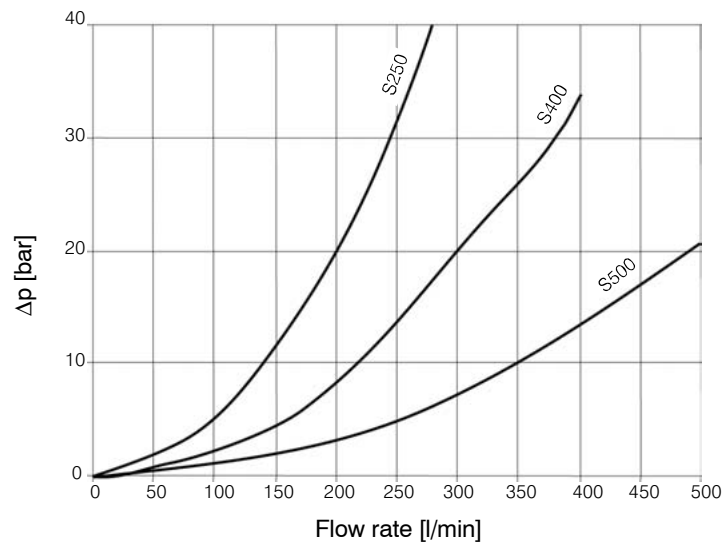


34.4 Characteristic curves (measured at 33 mm²/s [cSt])

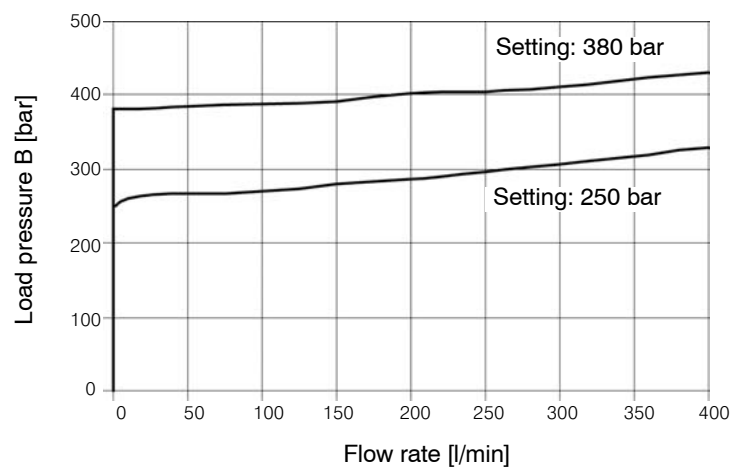
34.4.1 Δp from A $\rightarrow$ B (Lifting)



34.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



34.4.3 Opening characteristic of the secondary pressure relief valve



34.5 Model code key

CINDY - 25 - B - S - - - - - L - - - - - SVA - - - - -	
Valve series Leak-free load control valve = CINDY	
Nominal size 25 mm = 25	
Version B = B	
Application / valve type Load control valve, flange-mounted on actuator, or line-mounted = S	
Seal material Temperature range Nitrile (standard) -20°C to +80°C = N Nitrile (low temperature) -50°C to +80°C = T Viton -20°C to +200°C = V	
Fixing screws Without fixing screws = O Black fixing screws = S "Dacromate" fixing screws (anti-corrosion) = D	
Flow rate when lowering (spool size) S250 = S250 S400 = S400 S500 = S500	
	Pipe-threaded flange "A" (option) B = G 1 1/4"
	Pipe-threaded flange "B" (option) A = G 1 1/4"
	Pressure setting ... = 80 to 460 bar
	Secondary pressure relief SVA = Pressure relief from B to A
	Orifice combinations .. = Type 1 ... 99 (see General Information Leaflet, section 9.)
	Pilot-control options G.. = Pilot-control with "standard cover" D.. = Pilot-control with "damping cover" H.. = Pilot-control with "hydro-mechanical stroke limiter" R.. = Pilot-control with "hydraulic pressure reducing valve" E.. = Pilot-control with "electro-proportional pressure reducing valve" (only available with Nitrile seals) (see General Information Leaflet, section 9.)
	Pilot pressure-influence of return line back pressure L= Independent of back pressure in A (drain line required)

Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010226.....	300 6010294.....	300 6010340.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-S-N-2-G 300.0306763	Service packages Cindy 25-B-S-V-2-G 300.0306797	Service packages Cindy 25-B-S-T-2-G 300.0306836
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-S-N-2-D 300.0306764	Service packages Cindy 25-B-S-V-2-D 300.0306798	Service packages Cindy 25-B-S-T-2-D 300.0306837
Pilot-control type R Art. No.	Service packages Cindy 25-B-S-N-2-R 300.0306765	Service packages Cindy 25-B-S-V-2-R 300.0306799	Service packages Cindy 25-B-S-T-2-R 300.0306838
Pilot-control type E Art. No.	Service packages Cindy 25-B-S-N-2-E 300.0306766	Only available with Nitrile seals	
Optional A flange	300.0306805	300.0306808	300.0306811

35. Description Cindy-25-B-S..-....L-...-SVT...

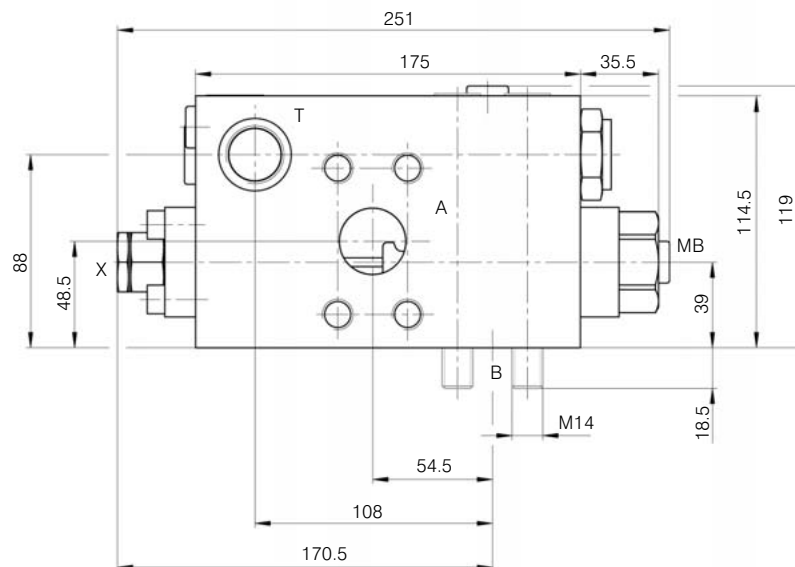
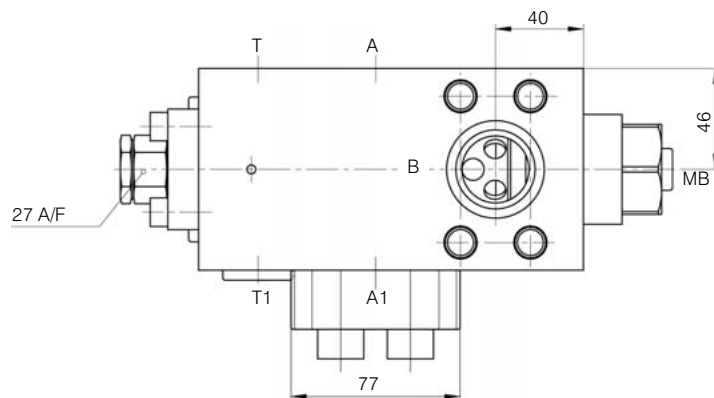
35.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1 1/4" 6000 psi	-
B	SAE 1 1/4" 6000 psi	3.53x37.69
T, T1	G 3/4"	-
X, L2, MB, MX	G 1/4"	-

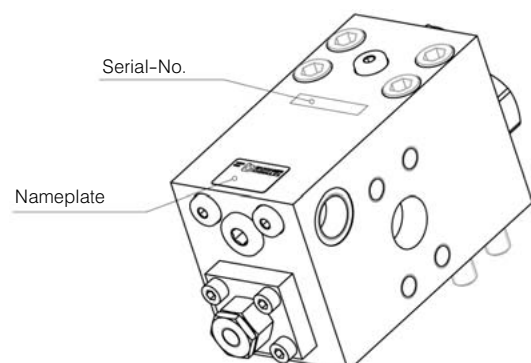
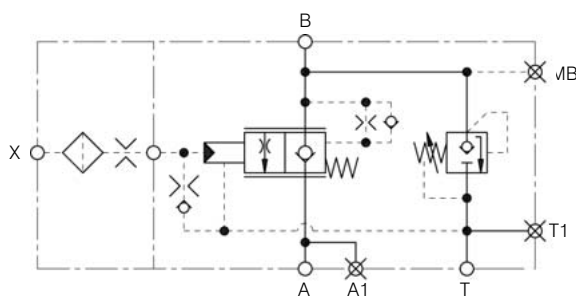
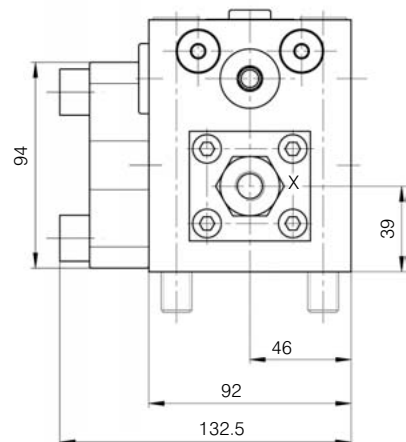
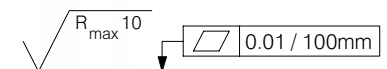
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 13.4 kg

35.2 Standard model

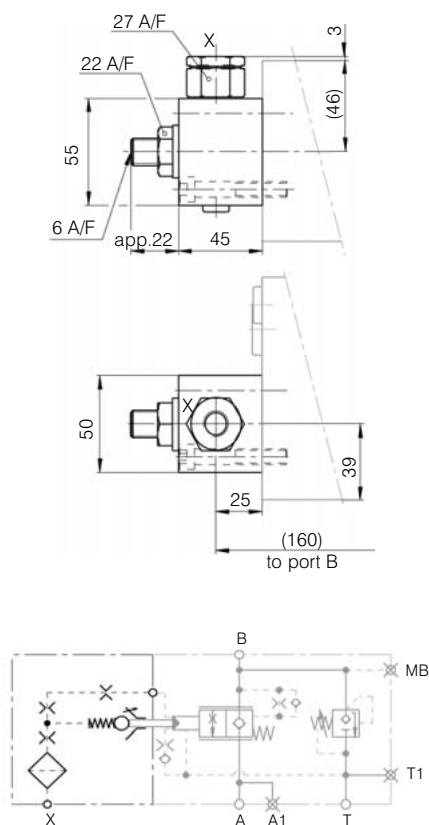


Required quality of the mating surface:

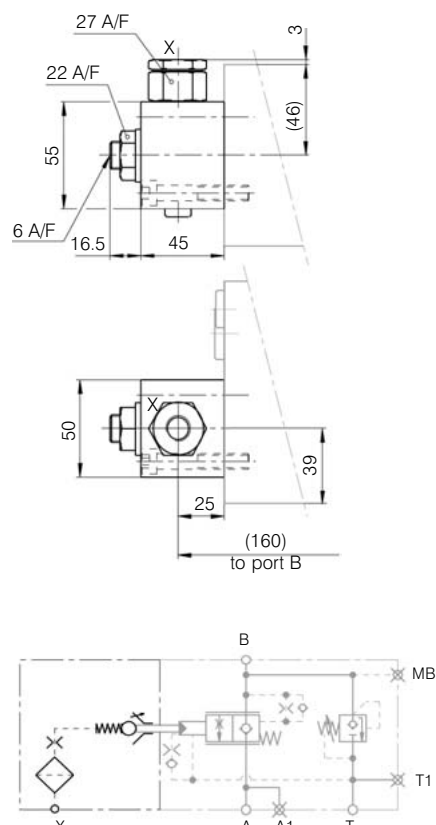


35.3 Pilot-control variants (each can be rotated through 180°)

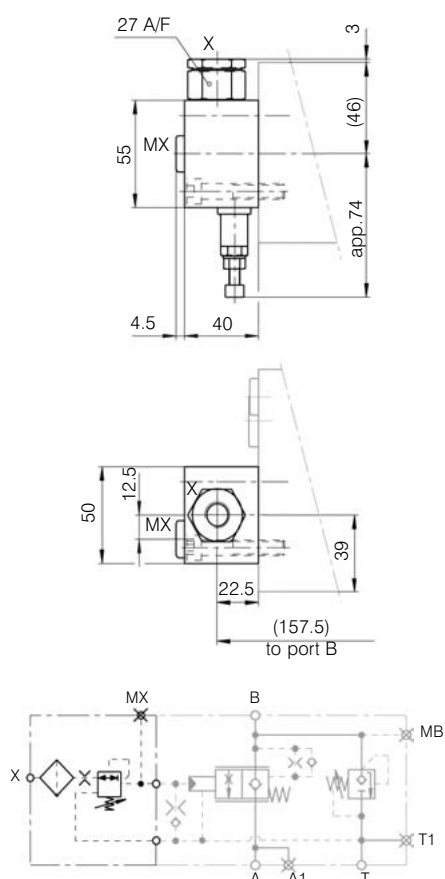
Pilot-control with the "damping cover" (D)



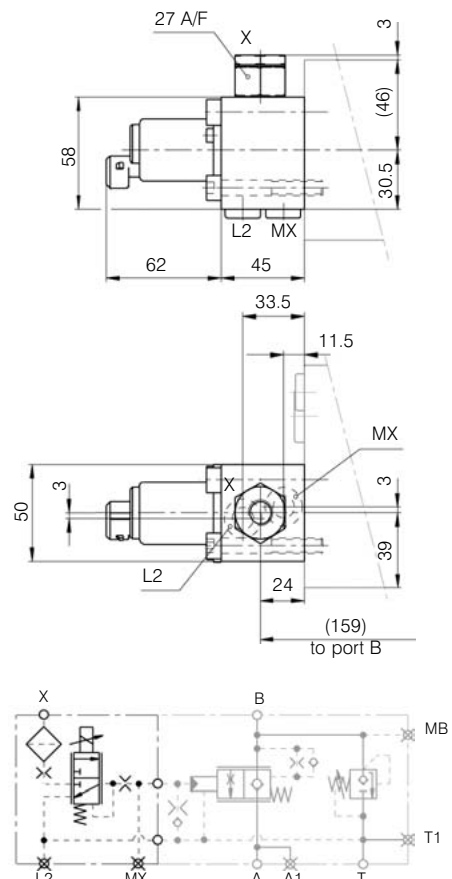
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

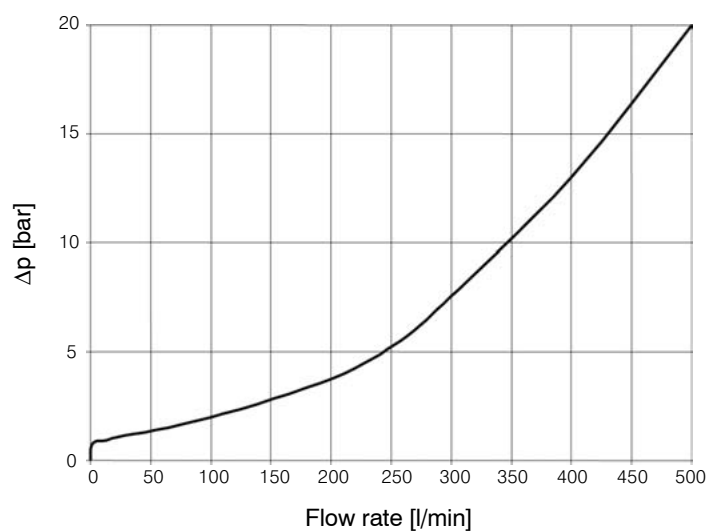


Pilot-control with the "electro-proportional pressure reducing valve" (E)

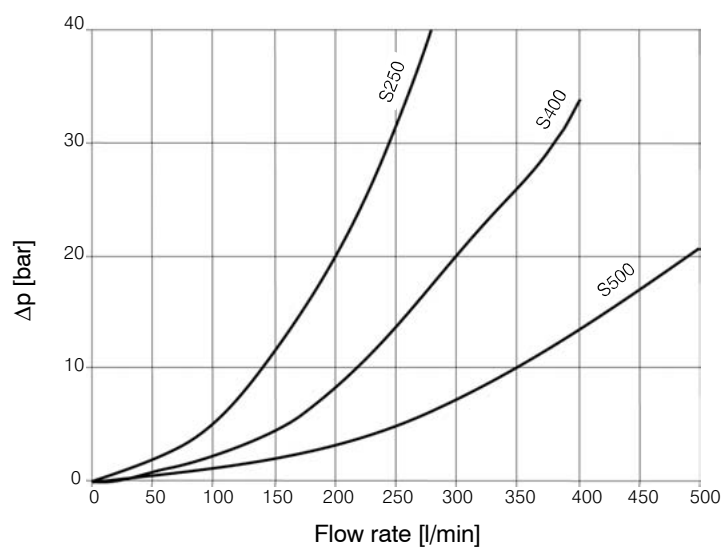


35.4 Characteristic curves (measured at 33 mm²/s [cSt])

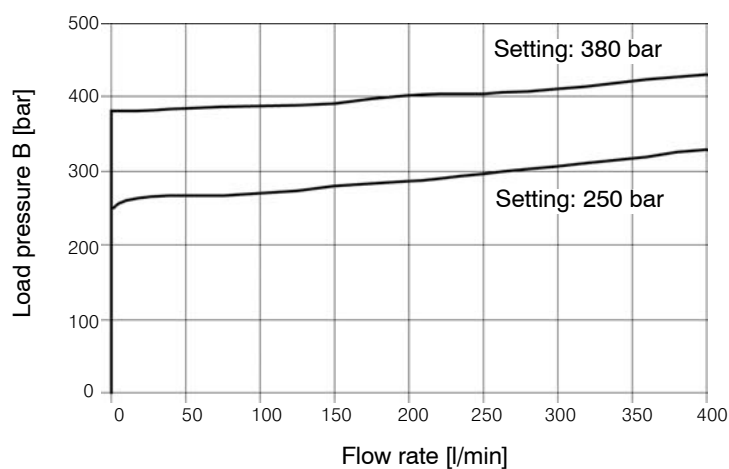
35.4.1 Δp from A $\rightarrow$ B (Lifting)



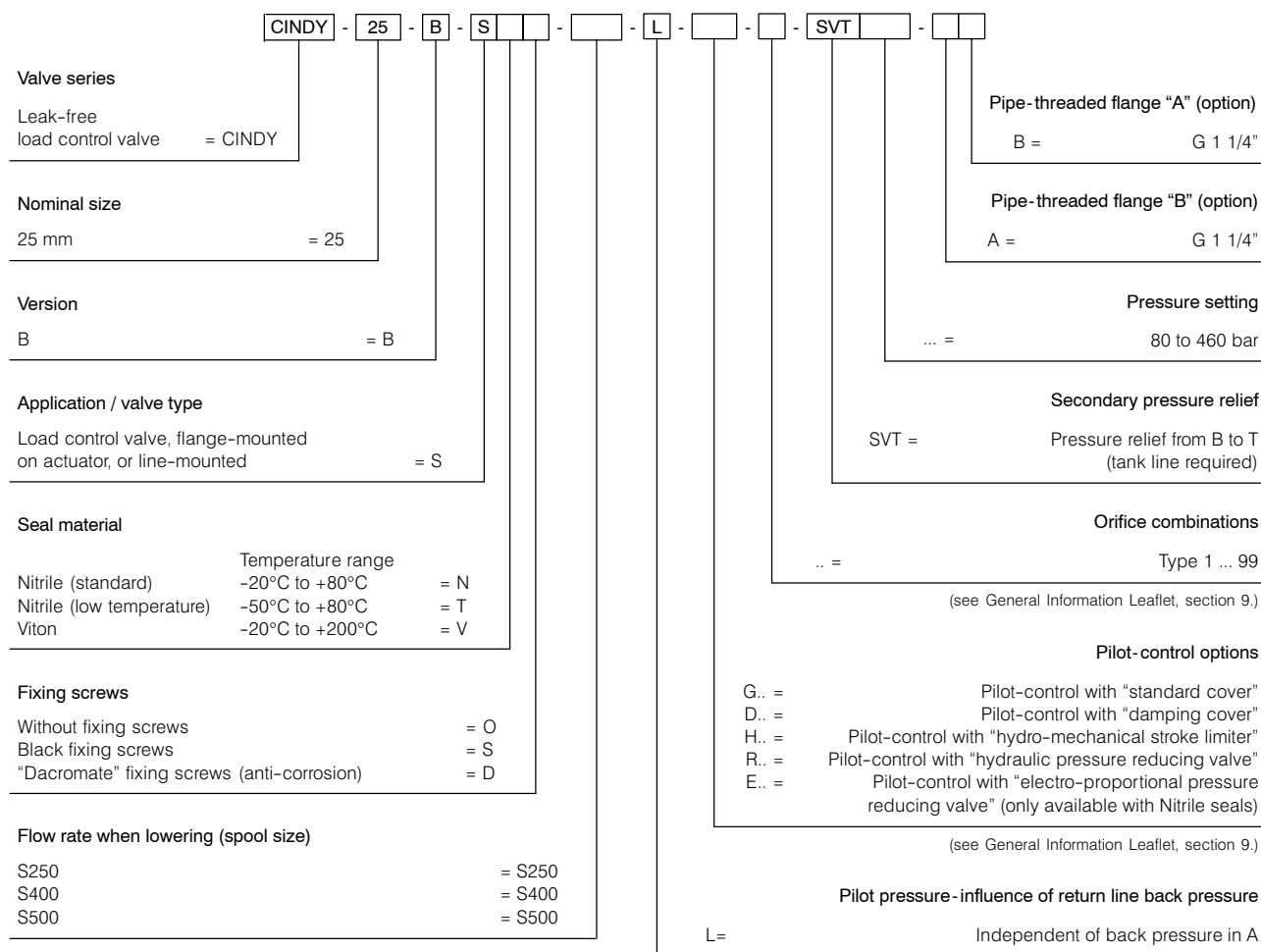
35.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



35.4.3 Opening characteristic of the secondary pressure relief valve



35.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010227.....	300 6010295.....	300 6010341.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-S-N-3-G 300.0306767	Service packages Cindy 25-B-S-V-3-G 300.0306800	Service packages Cindy 25-B-S-T-3-G 300.0306839
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-S-N-3-D 300.0306768	Service packages Cindy 25-B-S-V-3-D 300.0306801	Service packages Cindy 25-B-S-T-3-D 300.0306840
Pilot-control type R Art. No.	Service packages Cindy 25-B-S-N-3-R 300.0306769	Service packages Cindy 25-B-S-V-3-R 300.0306802	Service packages Cindy 25-B-S-T-3-R 300.0306841
Pilot-control type E Art. No.	Service packages Cindy 25-B-S-N-3-E 300.0306770	Only available with Nitrile seals	
Optional A flange	300.0306805	300.0306808	300.0306811

36. Description Cindy-25-B-S-...-A-...-SVZ...

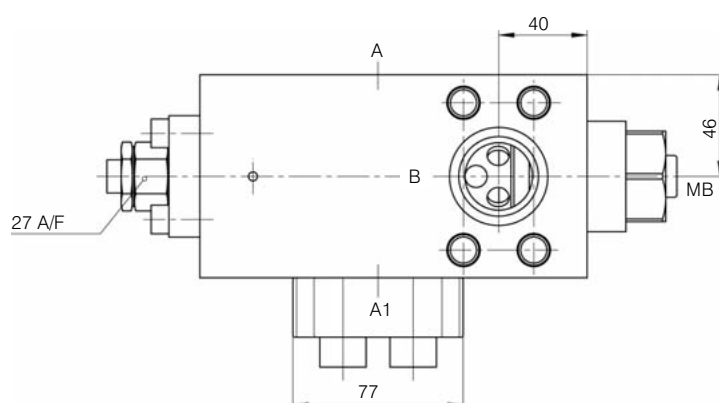
36.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1 1/4" 6000 psi	-
B	SAE 1 1/4" 6000 psi	3.53x37.69
X, MB	G 1/4"	-

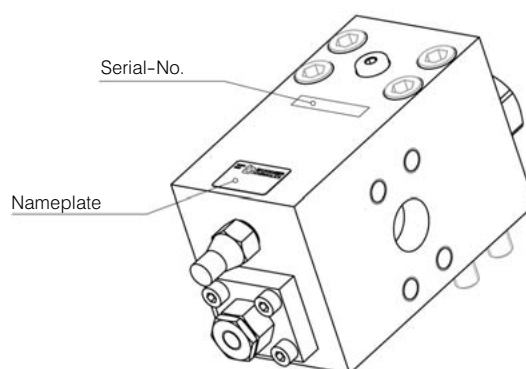
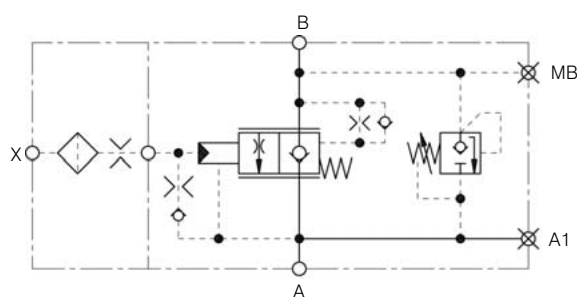
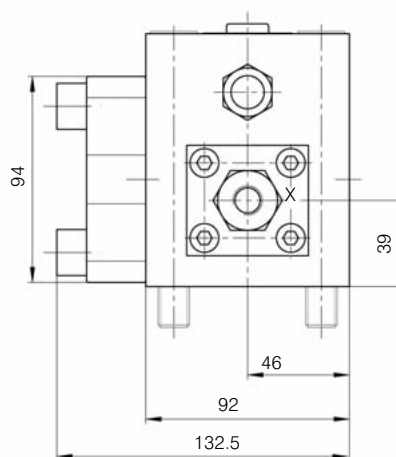
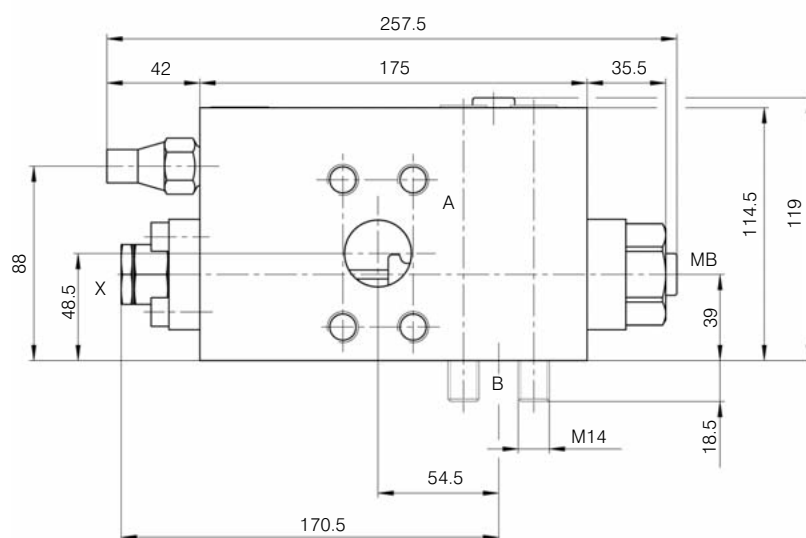
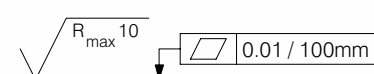
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 13.9 kg

36.2 Standard model

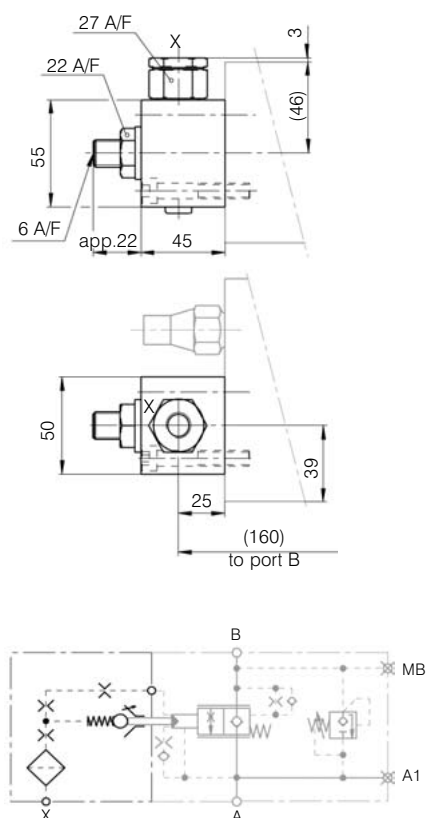


Required quality of the mating surface:

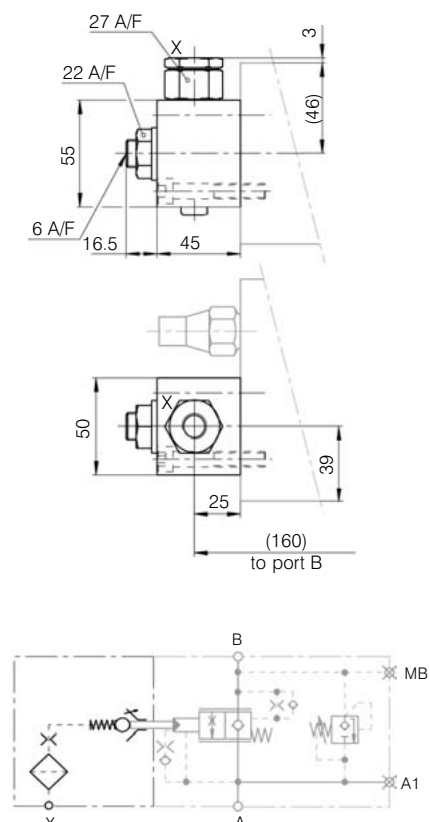


36.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "damping cover" (D)

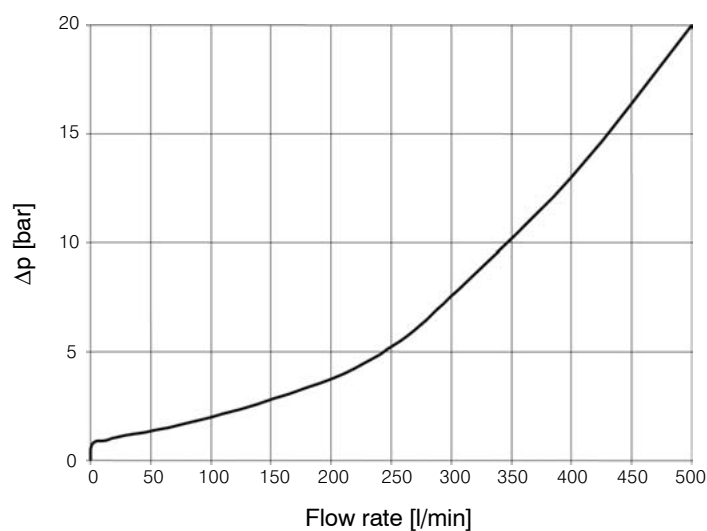


Pilot-control with the "hydro-mechanical stroke limiter" (H)

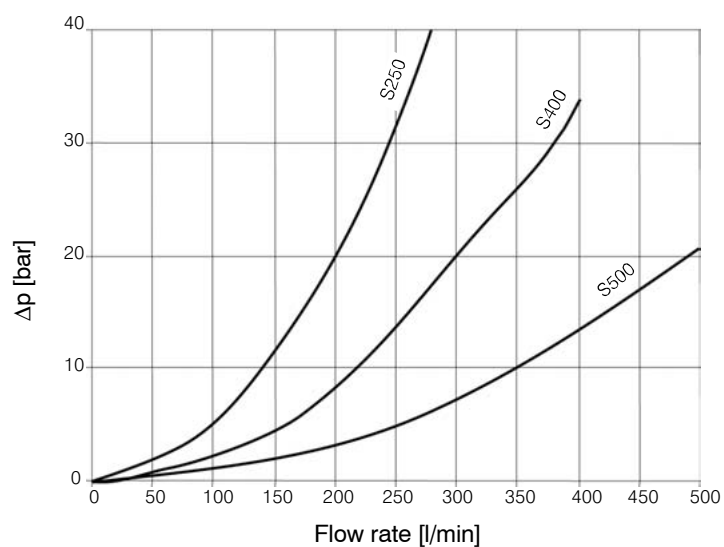


36.4 Characteristic curves (measured at 33 mm²/s [cSt])

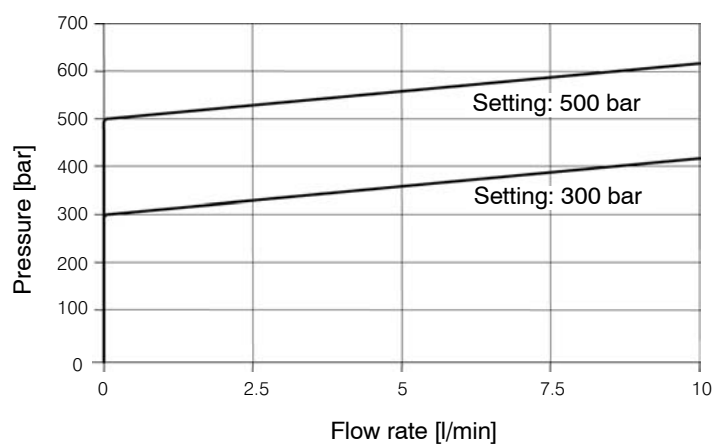
36.4.1 Δp from A $\rightarrow$ B (Lifting)



36.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



36.4.3 Opening characteristic of the thermal expansion pressure relief (UVP-4)



36.5 Model code key

CINDY - 25 - B - S - - - A - - - SVZ - -	
Valve series Leak-free load control valve = CINDY	
Nominal size 25 mm = 25	
Version B = B	
Application / valve type Load control valve, flange-mounted on actuator, or line-mounted = S	
Seal material Nitrile (standard) -20°C to +80°C = N Nitrile (low temperature) -50°C to +80°C = T Viton -20°C to +200°C = V	
Fixing screws Without fixing screws = O Black fixing screws = S "Dacromate" fixing screws (anti-corrosion) = D	
Flow rate when lowering (spool size) S250 = S250 S400 = S400 S500 = S500	
	Pipe-threaded flange "A" (option) B = G 1 1/4" Pipe-threaded flange "B" (option) A = G 1 1/4" Pressure setting ... = 250 to 500 bar Secondary pressure relief SVZ = With thermal expansion relief in B to L (nom. 2.5 mm) Orifice combinations .. = Type 1 ... 99 (see General Information Leaflet, section 9.) Pilot-control options G.. = Pilot-control with "standard cover" D.. = Pilot-control with "damping cover" H.. = Pilot-control with "hydro-mechanical stroke limiter" (see General Information Leaflet, section 9.) Influence of return line (back pressure) to pilot-pressure A= Dependent on back pressure in A (control pressure must be increased by amount of back pressure; drain line not needed)

Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010228.....	300 6010296.....	300 6010342.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-S-N-1-G 300.0306759	Service packages Cindy 25-B-S-V-1-G 300.0306794	Service packages Cindy 25-B-S-T-1-G 300.0306833
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-S-N-1-D 300.0306760	Service packages Cindy 25-B-S-V-1-D 300.0306795	Service packages Cindy 25-B-S-T-1-D 300.0306834
Optional A flange	300.0306805	300.0306808	300.0306811
Optional SVZ	250-350 bar 300.6010408	250-350 bar 300.6010409	250-350 bar 300.6010410
	350-500 bar 300.6010411	350-500 bar 300.6010412	350-500 bar 300.6010413

37. Description Cindy-25-B-S...-L-...-SVZ...

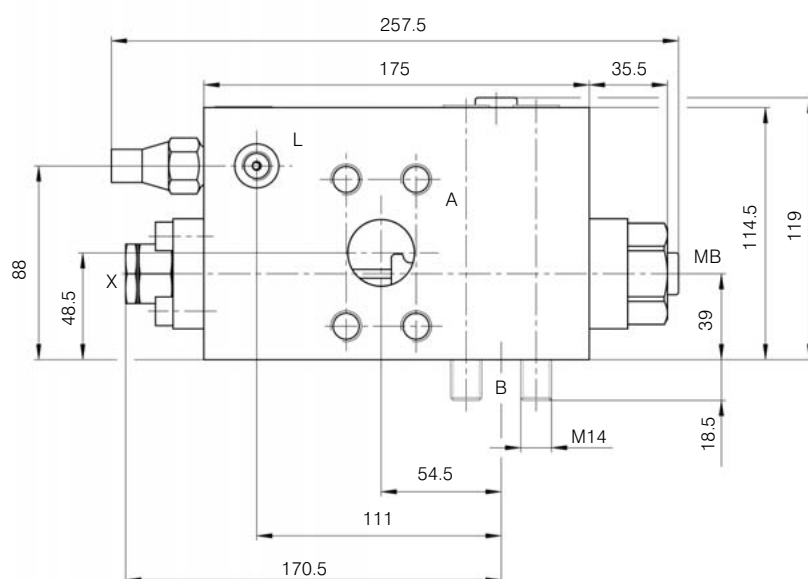
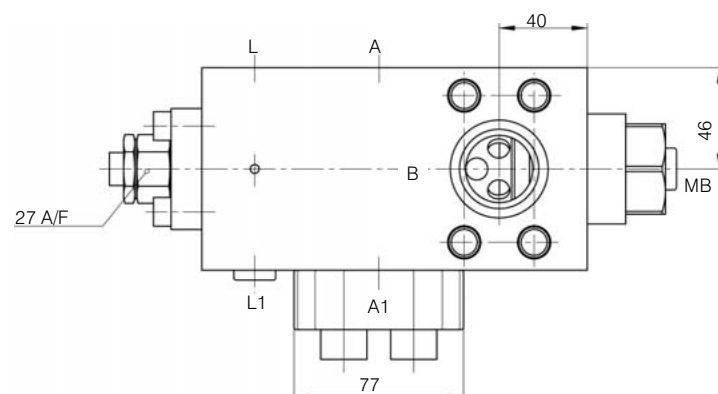
37.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1 1/4" 6000 psi	-
B	SAE 1 1/4" 6000 psi	3.53x37.69
X, L, L1, L2, MB, MX	G 1/4"	-

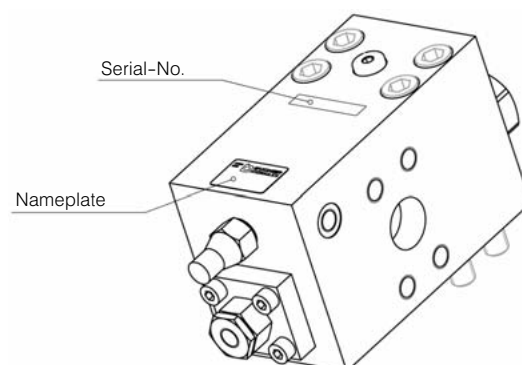
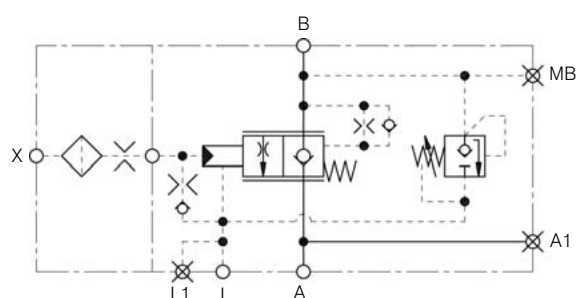
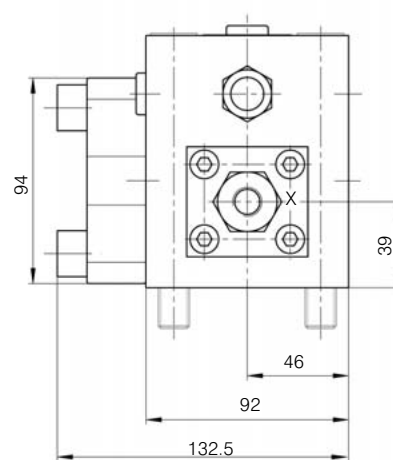
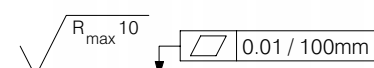
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 13.9 kg

37.2 Standard model

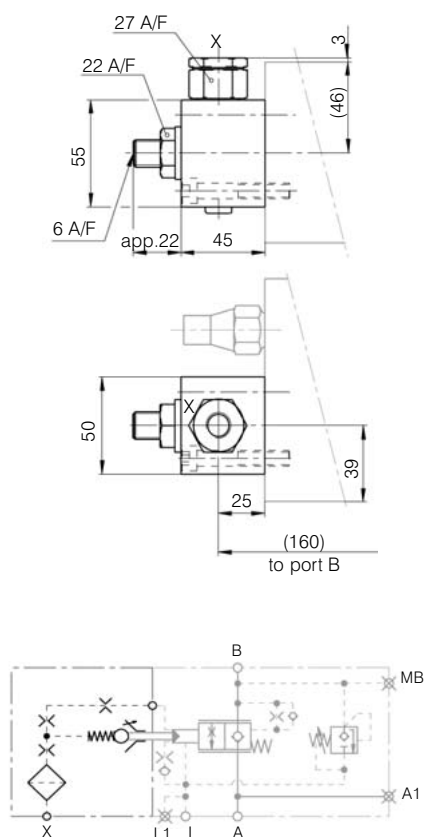


Required quality of the mating surface:

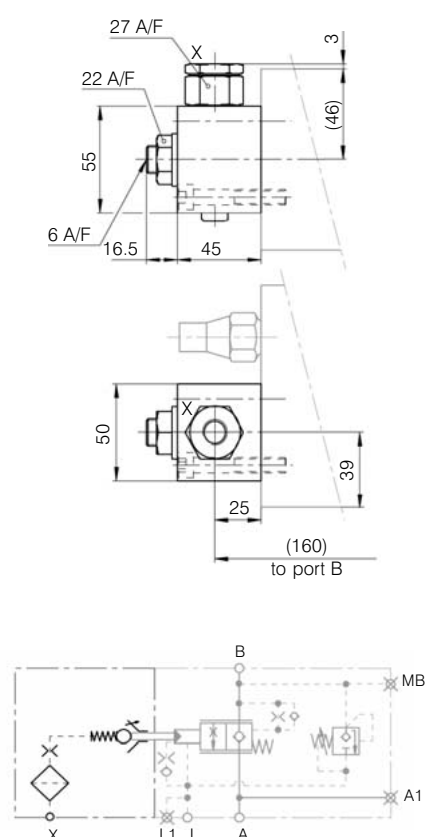


37.3 Pilot-control variants (each can be rotated through 180°)

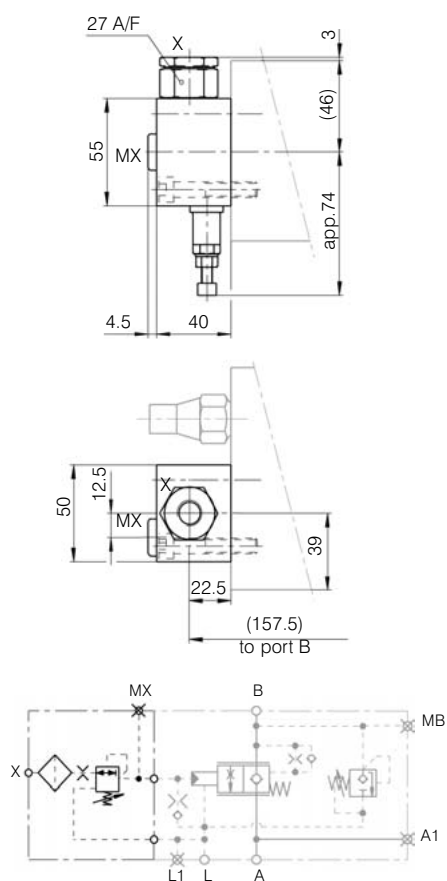
Pilot-control with the "damping cover" (D)



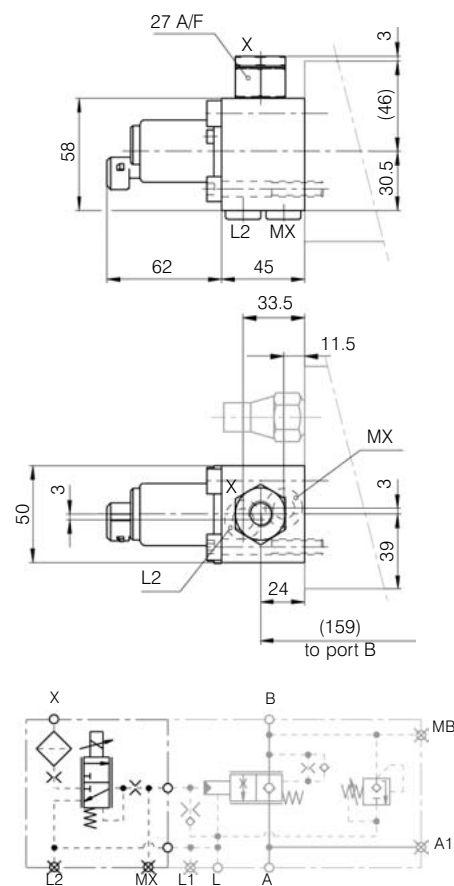
Pilot-control with the "hydro-mechanical stroke limiter" (H)



Pilot-control with the "hydraulic pressure reducing valve" (R)

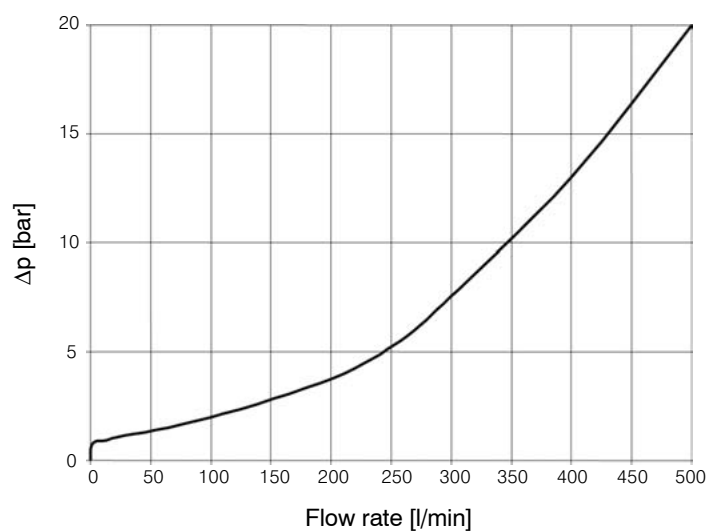


Pilot-control with the "electro-proportional pressure reducing valve" (E)

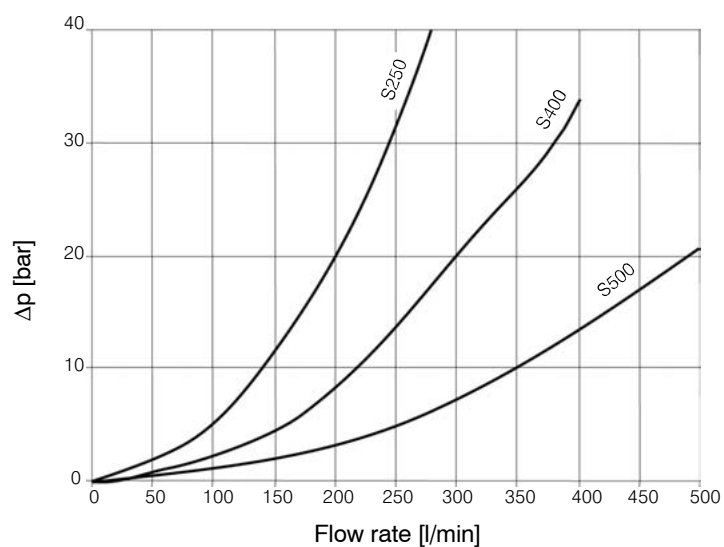


37.4 Characteristic curves (measured at 33 mm²/s [cSt])

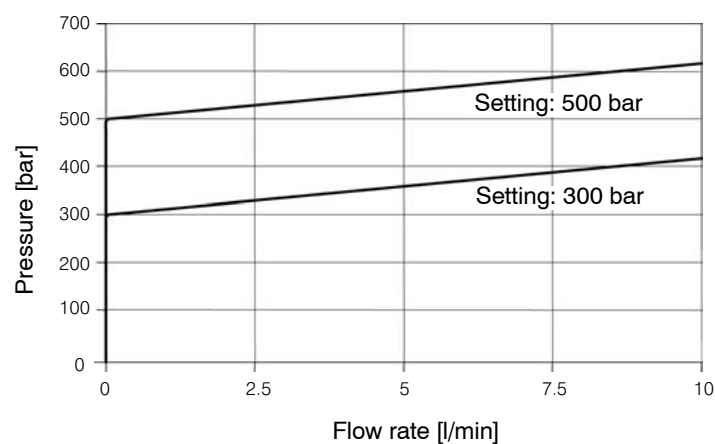
37.4.1 Δp from A $\rightarrow$ B (Lifting)



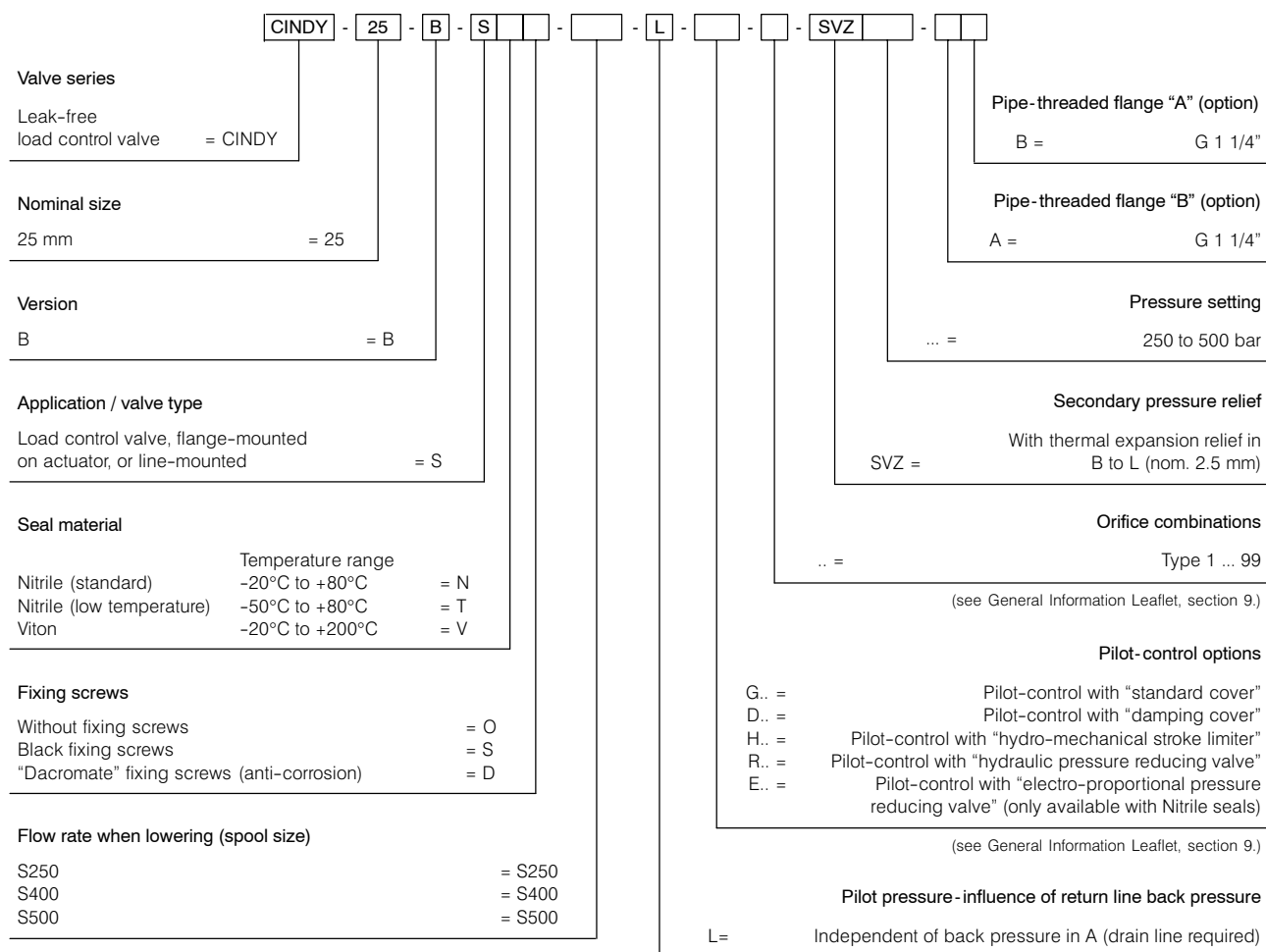
37.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



37.4.3 Opening characteristic of the thermal expansion pressure relief (UVP-4)



37.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific valve)	300 6010229.....	300 6010297.....	300 6010343.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-S-N-1-G 300.0306759	Service packages Cindy 25-B-S-V-1-G 300.0306794	Service packages Cindy 25-B-S-T-1-G 300.0306833
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-S-N-1-D 300.0306760	Service packages Cindy 25-B-S-V-1-D 300.0306795	Service packages Cindy 25-B-S-T-1-D 300.0306834
Pilot-control type R Art. No.	Service packages Cindy 25-B-S-N-1-R 300.0306761	Service packages Cindy 25-B-S-V-1-R 300.0306796	Service packages Cindy 25-B-S-T-1-R 300.0306835
Pilot-control type E Art. No.	Service packages Cindy 25-B-S-N-1-E 300.0306762	Only available with Nitrile seals	
Optional A flange	300.0306805	300.0306808	300.0306811
Optional SVZ	250-350 bar 300.6010408	250-350 bar 300.6010409	250-350 bar 300.6010410
	350-500 bar 300.6010411	350-500 bar 300.6010412	350-500 bar 300.6010413

38. Description Cindy-25-B-S...-L...-... (load pressure-compensated)

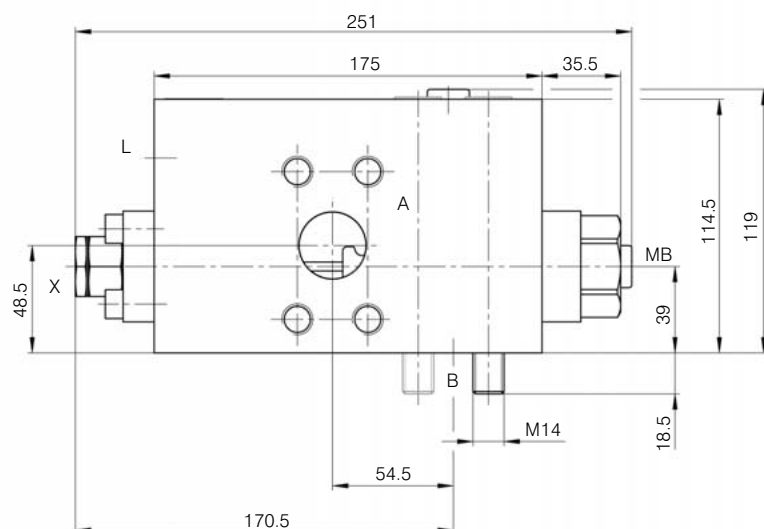
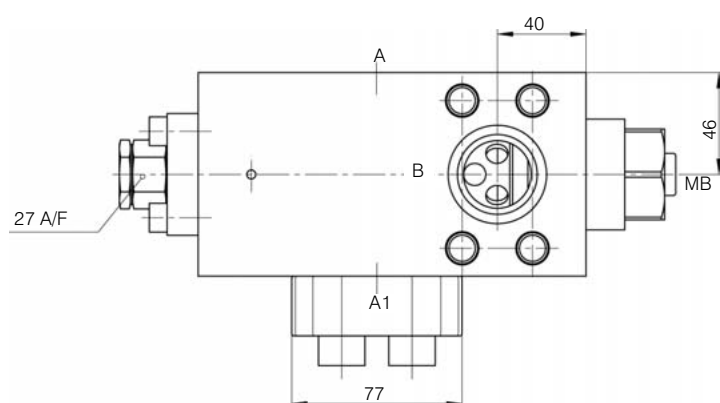
38.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1 1/4" 6000 psi	-
B	SAE 1 1/4" 6000 psi	3.53x37.69
X, L, L2, MB, MX	G 1/4"	-

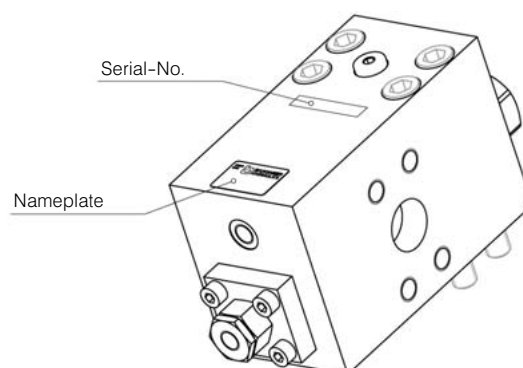
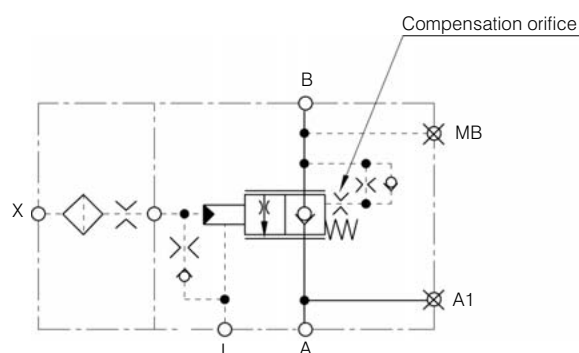
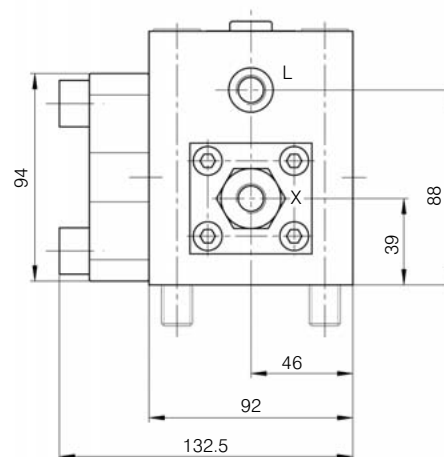
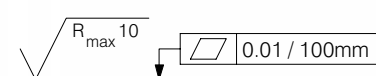
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 13.9 kg

38.2 Standard model

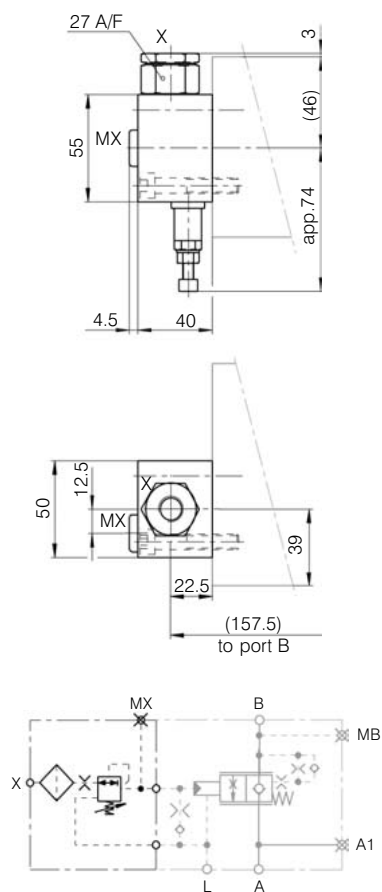


Required quality of the mating surface:

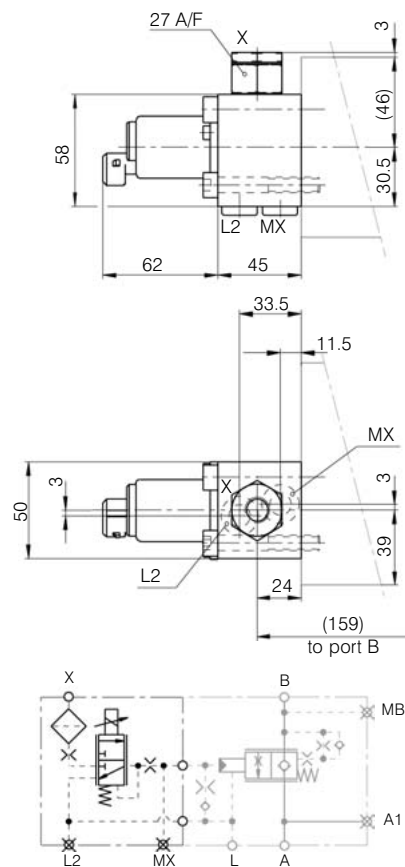


38.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve" (R)

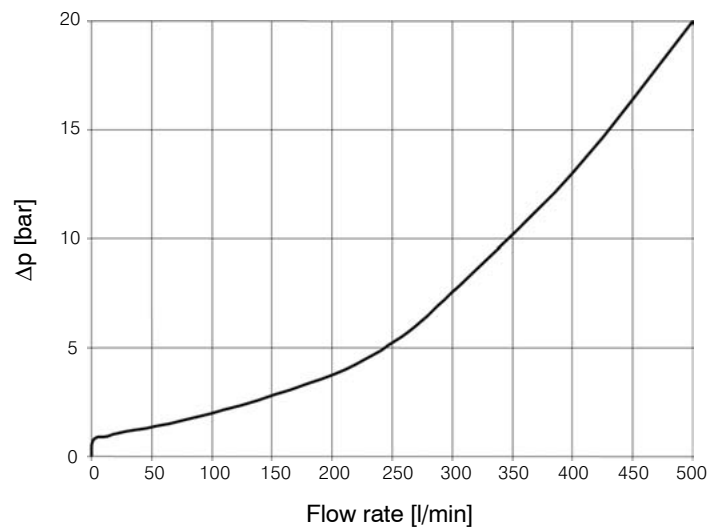


Pilot-control with the "electro-proportional pressure reducing valve" (E)

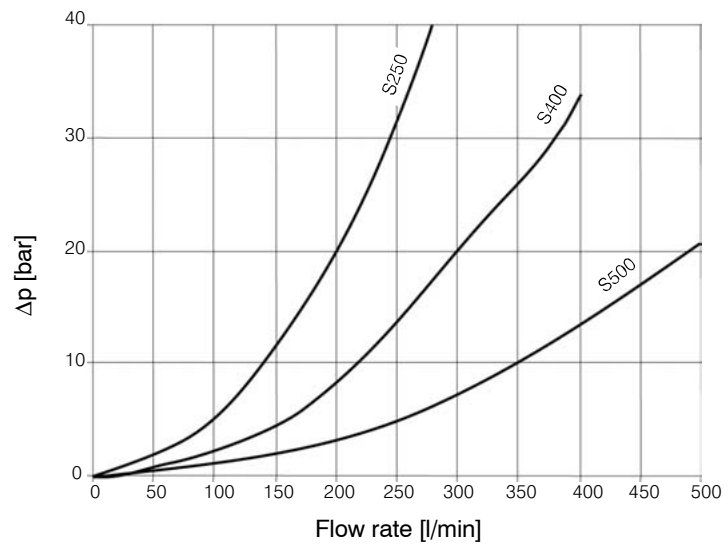


38.4 Characteristic curves (measured at 33 mm²/s [cSt])

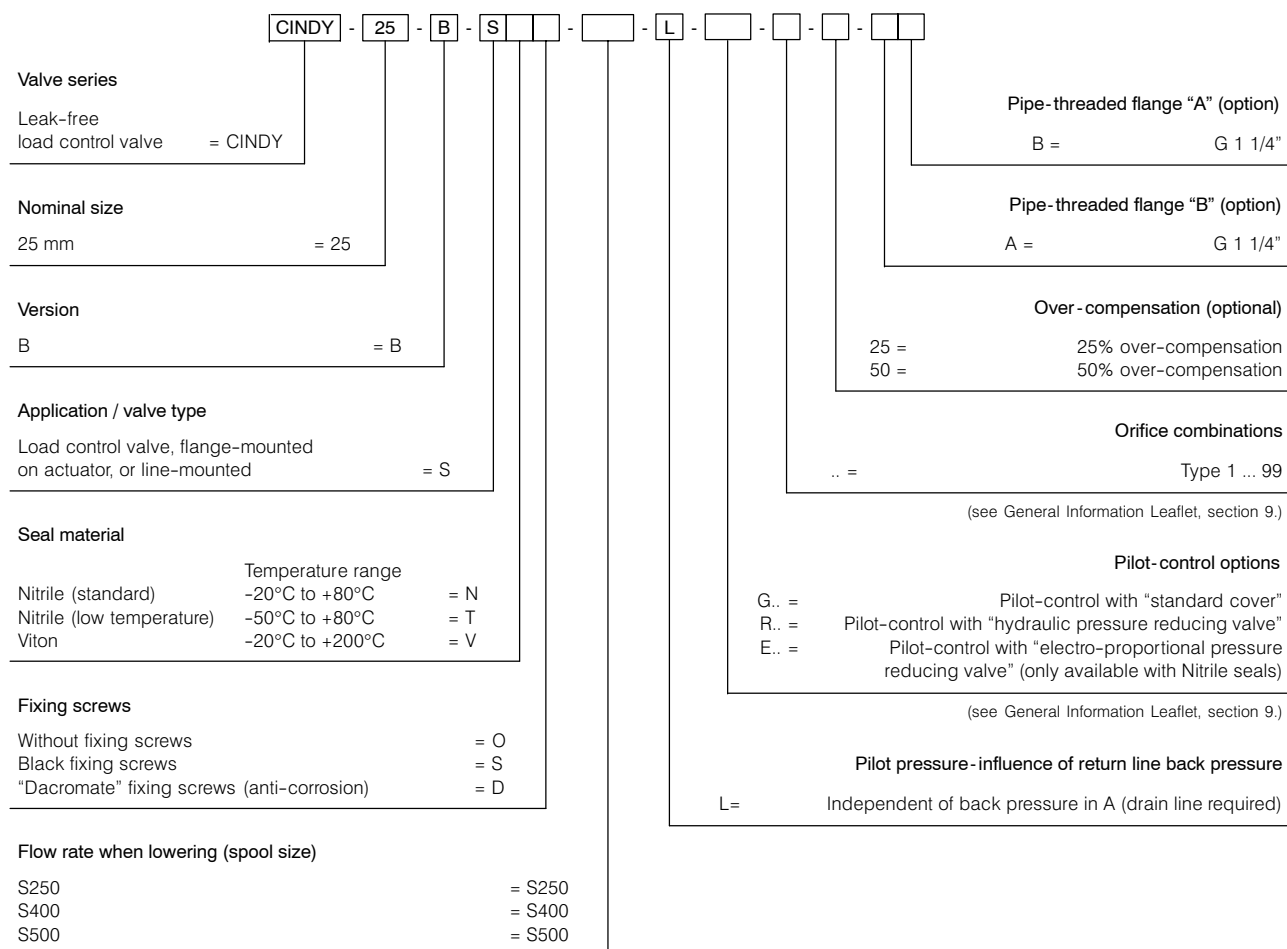
38.4.1 Δp from A $\rightarrow$ B (Lifting)



38.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



38.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010230.....	300 6010298.....	300 6010344.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-S-N-1-G 300.0306759	Service packages Cindy 25-B-S-V-1-G 300.0306794	Service packages Cindy 25-B-S-T-1-G 300.0306833
Pilot-control type R Art. No.	Service packages Cindy 25-B-S-N-1-R 300.0306761	Service packages Cindy 25-B-S-V-1-R 300.0306796	Service packages Cindy 25-B-S-T-1-R 300.0306835
Pilot-control type E Art. No.	Service packages Cindy 25-B-S-N-1-E 300.0306762	Only available with Nitrile seals	
Optional A flange	300.0306805	300.0306808	300.0306811

39. Description Cindy-25-B-S-...-L-...-SVA... (load pressure-compensated)

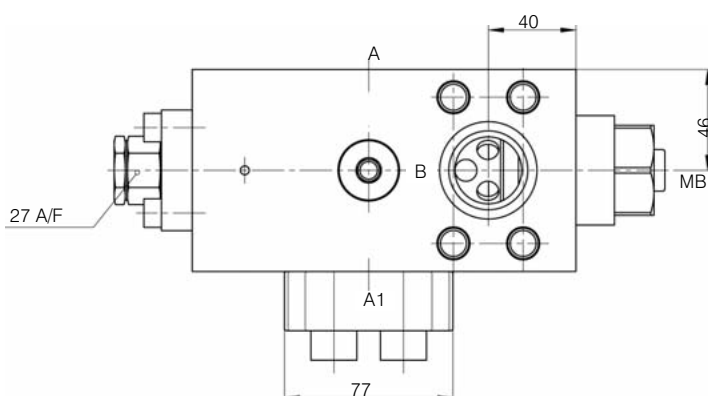
39.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1 1/4" 6000 psi	-
B	SAE 1 1/4" 6000 psi	3.53x37.69
X, L, L2, MB, MX	G 1/4"	-

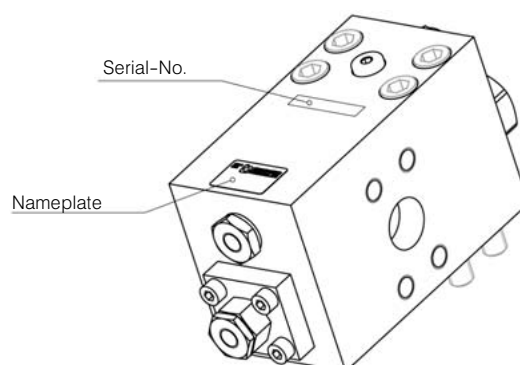
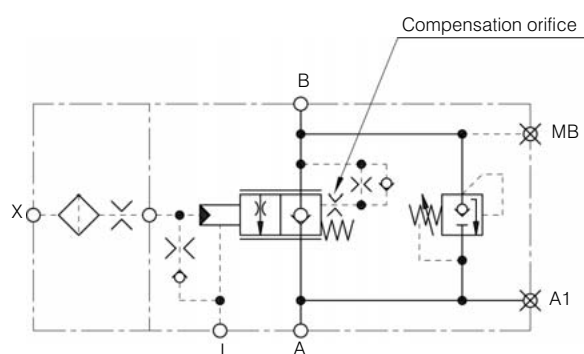
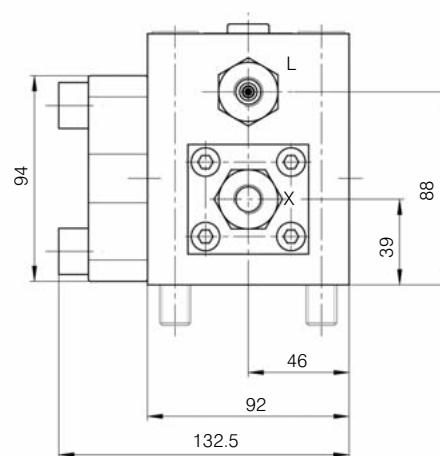
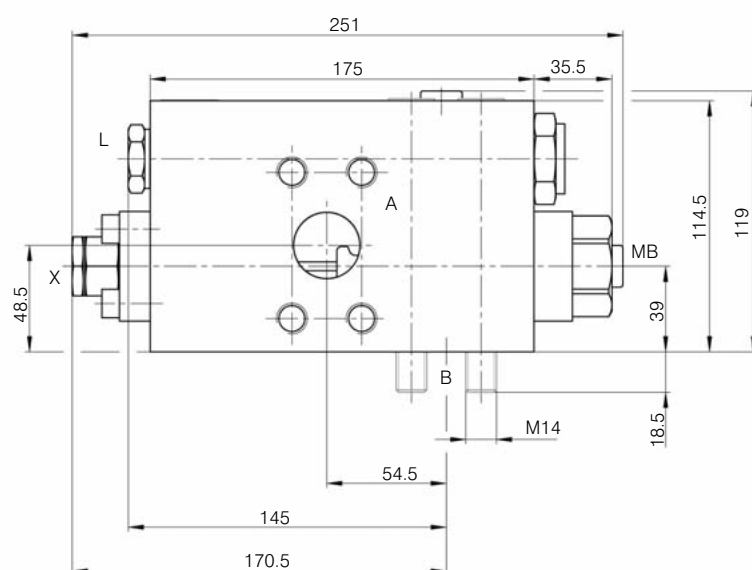
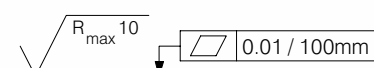
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 13.7 kg

39.2 Standard model

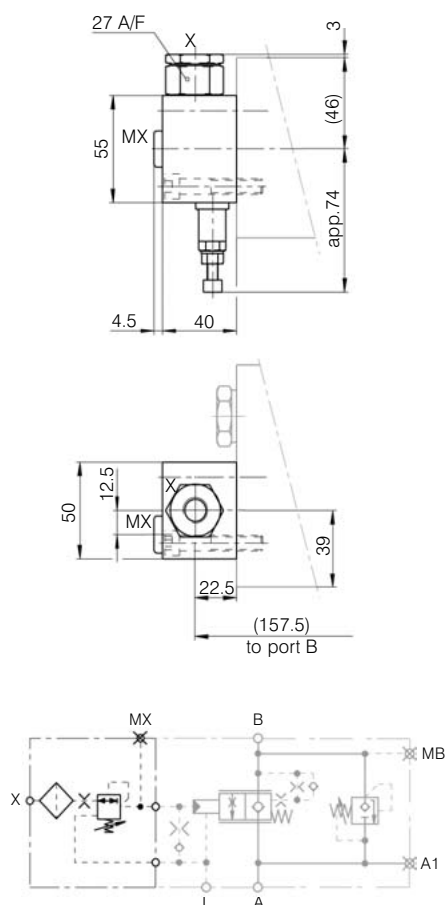


Required quality of the mating surface:

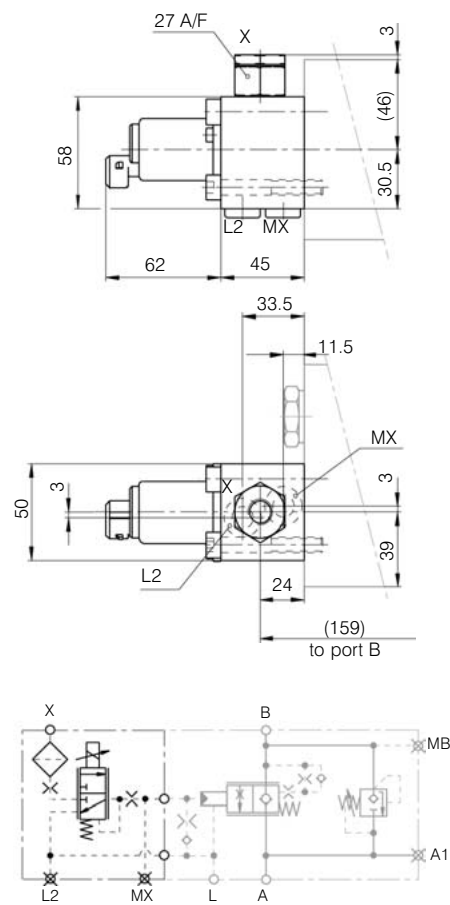


39.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve" (R)

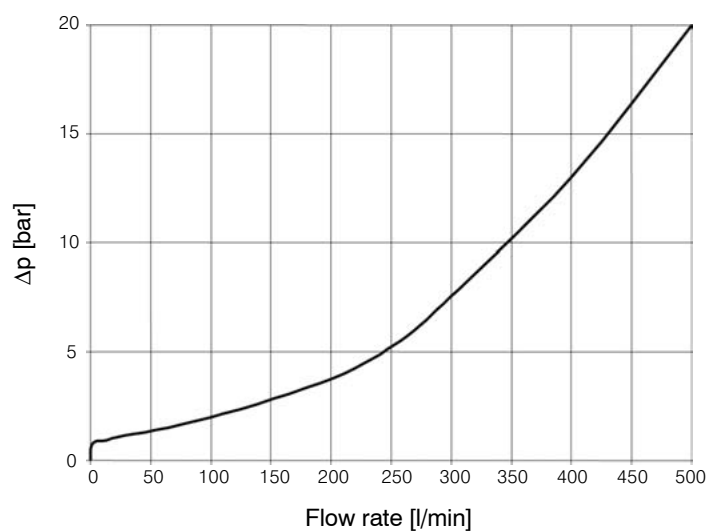


Pilot-control with the "electro-proportional pressure reducing valve" (E)

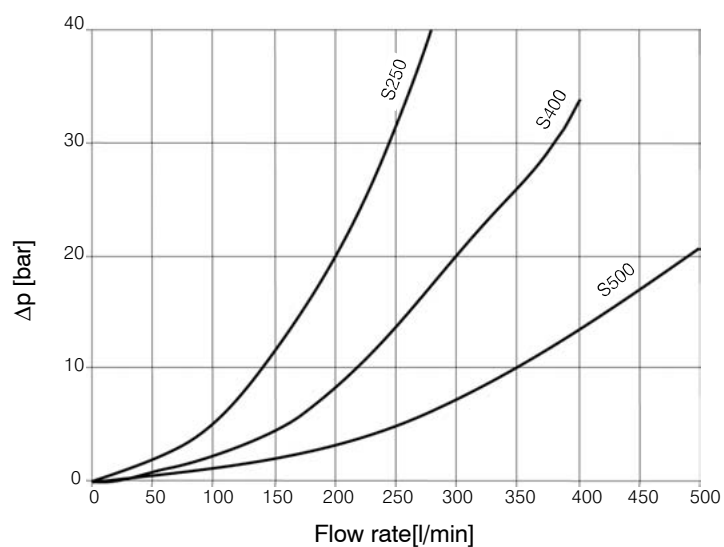


39.4 Characteristic curves (measured at 33 mm²/s [cSt])

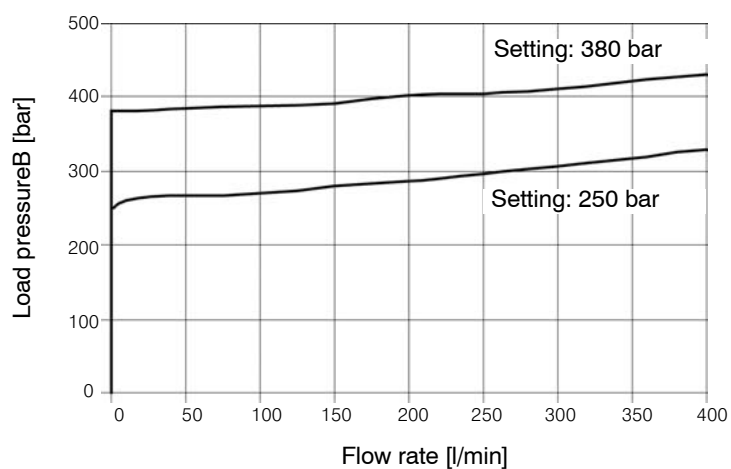
39.4.1 Δp from A $\rightarrow$ B (Lifting)



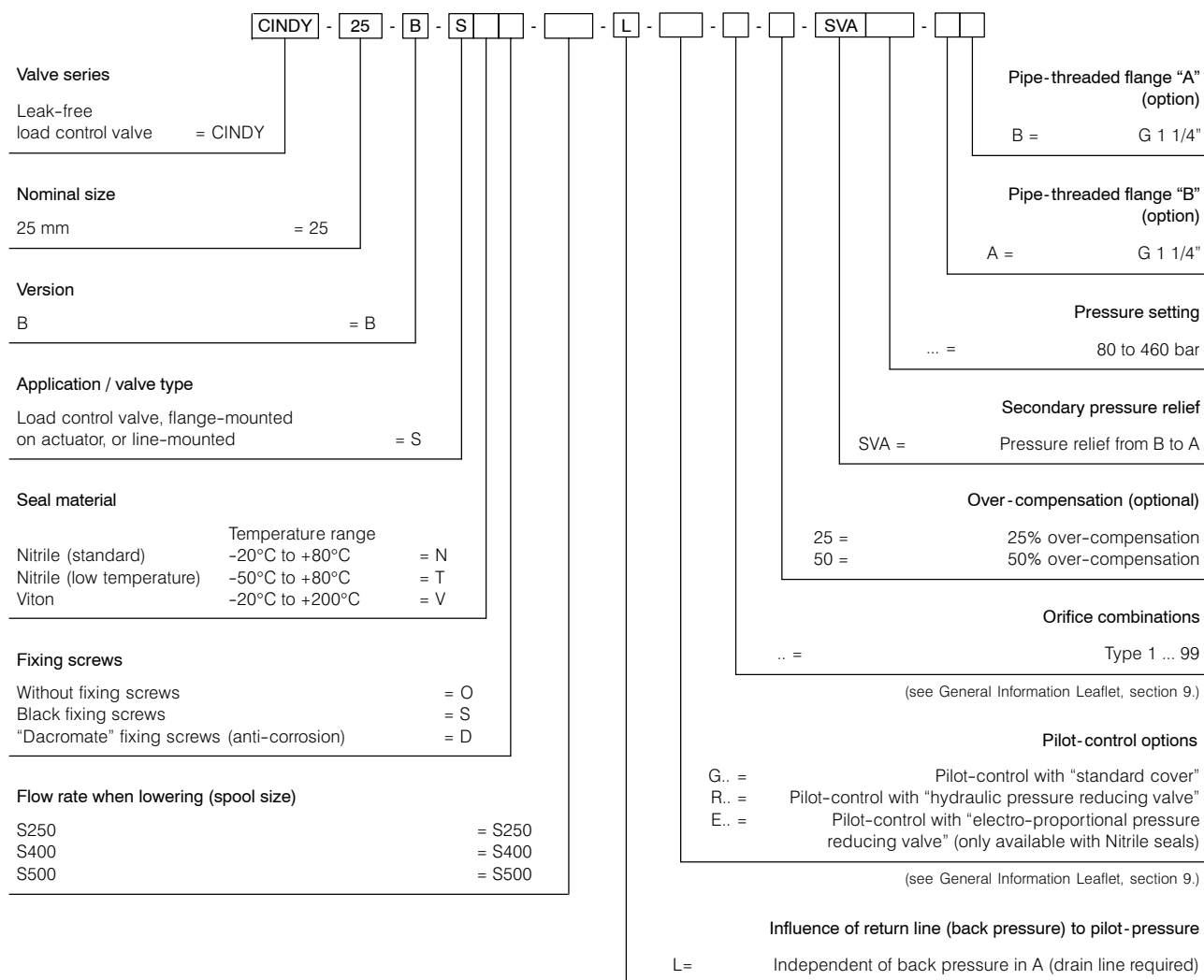
39.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



39.4.3 Opening characteristic of the secondary pressure relief valve



39.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010231.....	300 6010299.....	300 6010345.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-S-N-2-G 300.0306763	Service packages Cindy 25-B-S-V-2-G 300.0306797	Service packages Cindy 25-B-S-T-2-G 300.0306836
Pilot-control type R Art. No.	Service packages Cindy 25-B-S-N-2-R 300.0306765	Service packages Cindy 25-B-S-V-2-R 300.0306799	Service packages Cindy 25-B-S-T-2-R 300.0306838
Pilot-control type E Art. No.	Service packages Cindy 25-B-S-N-2-E 300.0306766	Only available with Nitrile seals	
Optional A flange	300.0306805	300.0306808	300.0306811

40. Description Cindy-25-B-S-...-L-...-...-SVT... (load pressure-compensated)

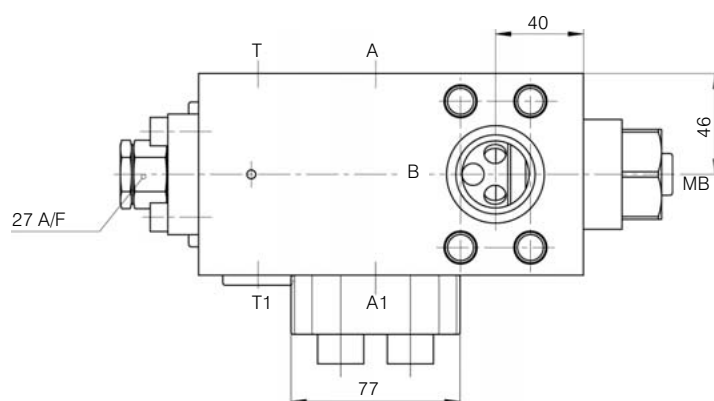
40.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1 1/4" 6000 psi	-
B	SAE 1 1/4" 6000 psi	3.53x37.69
T, T1	G 3/4"	-
X, L2, MB, MX	G 1/4"	-

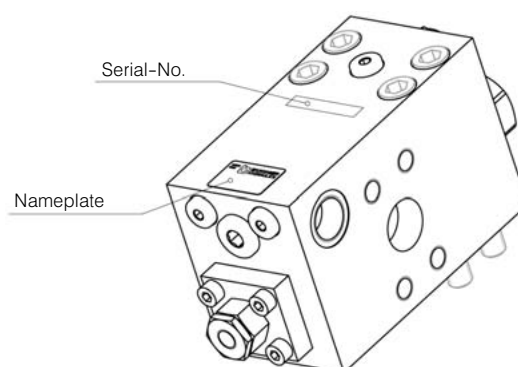
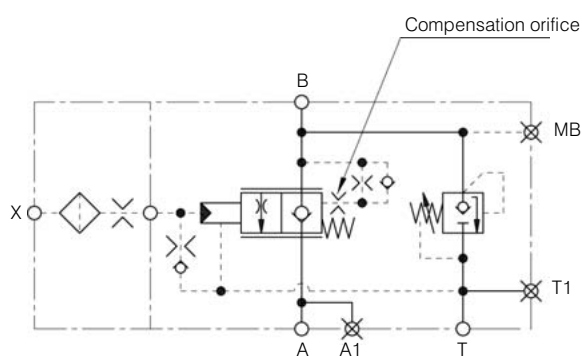
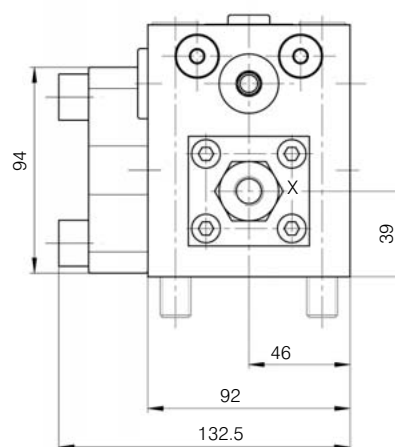
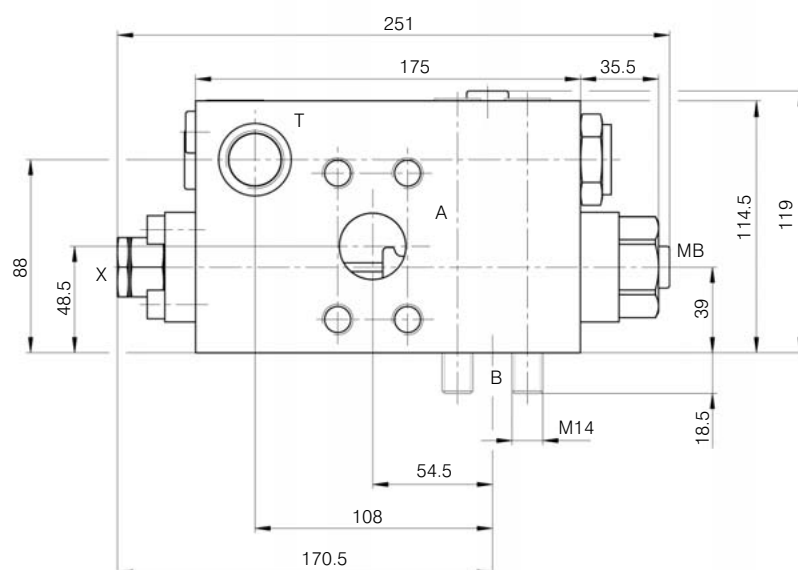
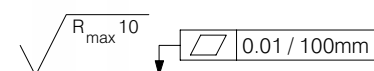
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 13.4 kg

40.2 Standard model

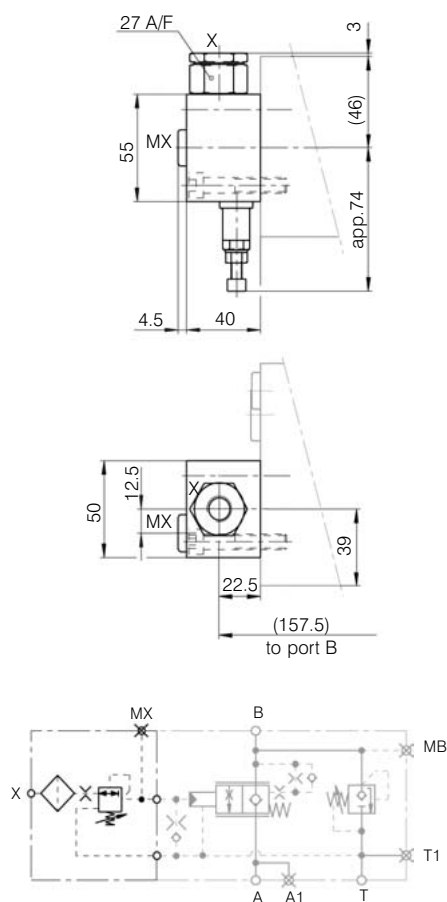


Required quality of the mating surface:

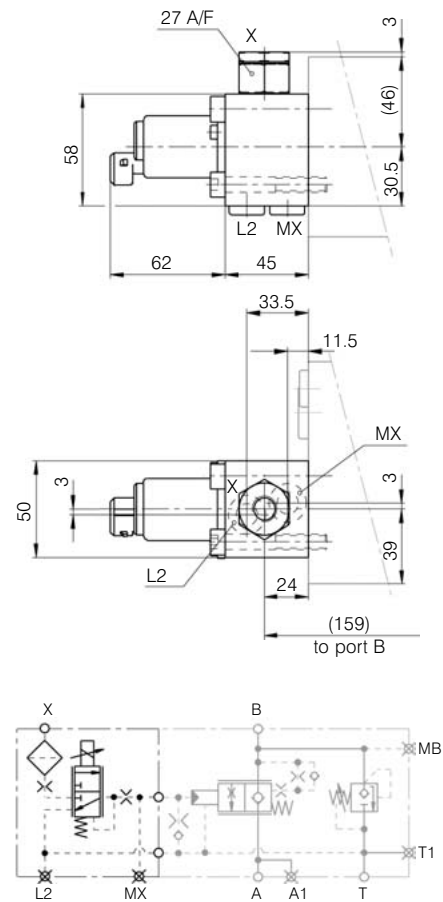


40.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve" (R)

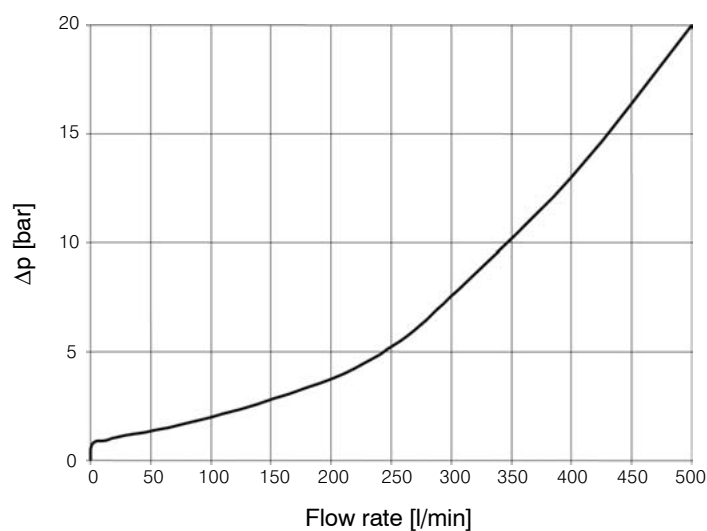


Pilot-control with the "electro-proportional pressure reducing valve" (E)

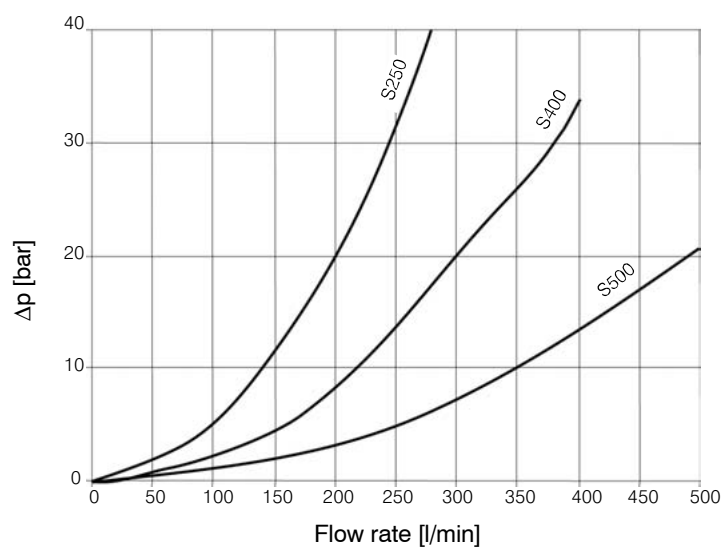


40.4 Characteristic curves (measured at 33 mm²/s [cSt])

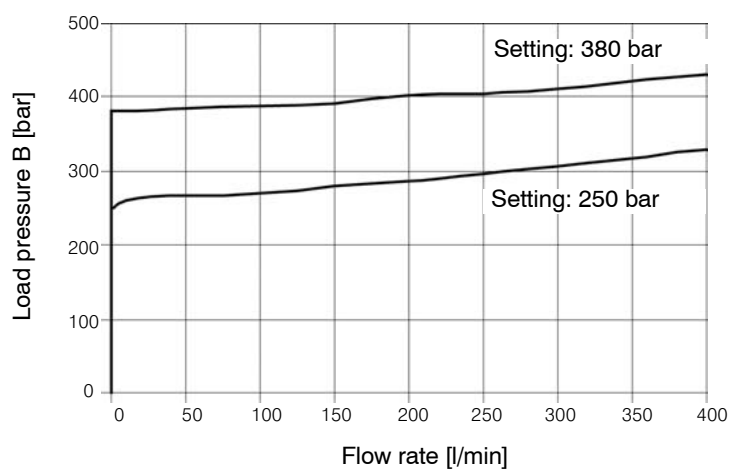
40.4.1 Δp from A $\rightarrow$ B (Lifting)



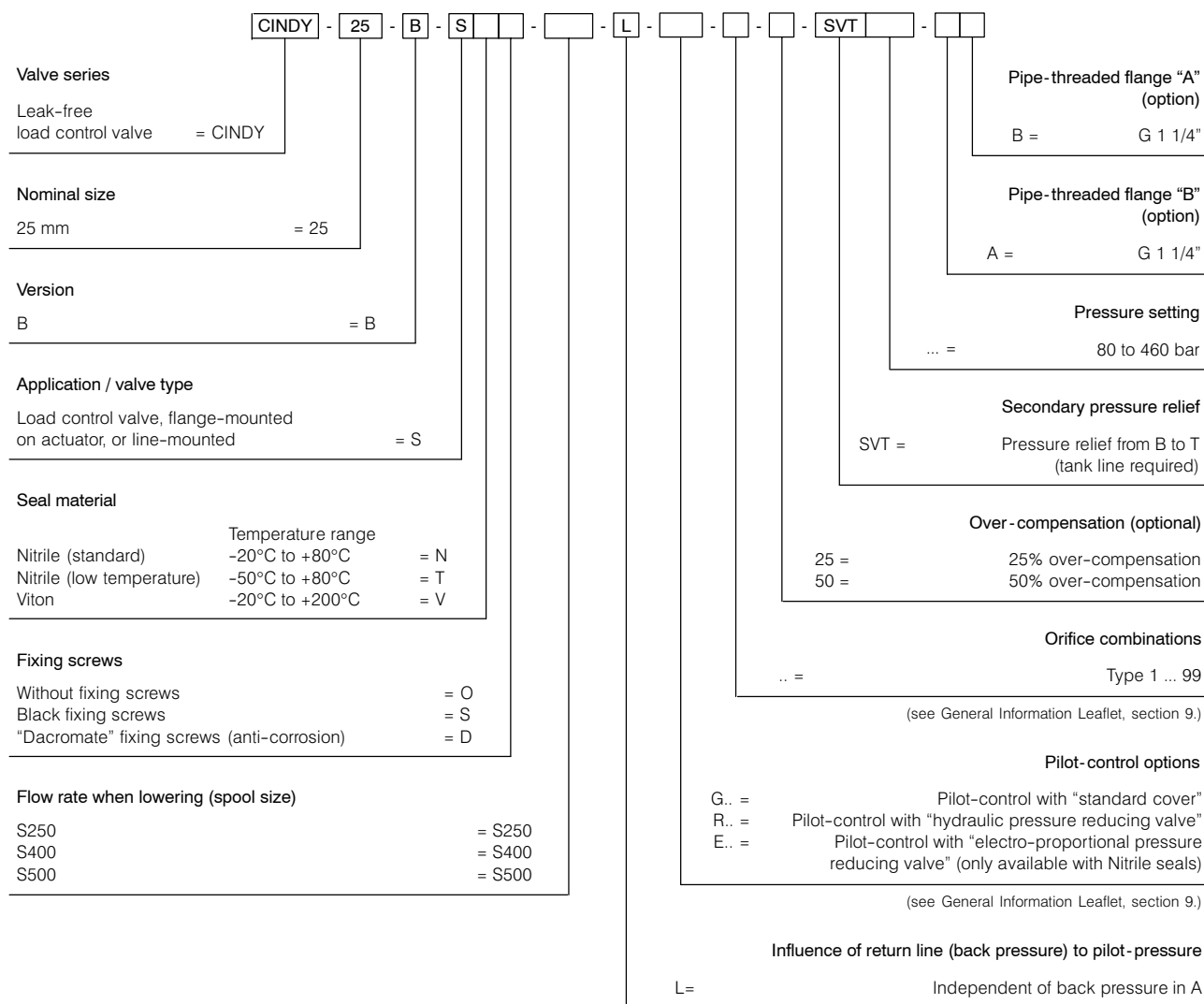
40.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



40.4.3 Opening characteristic of the secondary pressure relief valve



40.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010232.....	300 6010300.....	300 6010346.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-S-N-3-G 300.0306767	Service packages Cindy 25-B-S-V-3-G 300.0306800	Service packages Cindy 25-B-S-T-3-G 300.0306839
Pilot-control type R Art. No.	Service packages Cindy 25-B-S-N-3-R 300.0306769	Service packages Cindy 25-B-S-V-3-R 300.0306802	Service packages Cindy 25-B-S-T-3-R 300.0306841
Pilot-control type E Art. No.	Service packages Cindy 25-B-S-N-3-E 300.0306770	Only available with Nitrile seals	
Optional A flange	300.0306805	300.0306808	300.0306811

41. Description Cindy-25-B-S...-....-L-....-SVZ... (load pressure-compensated)

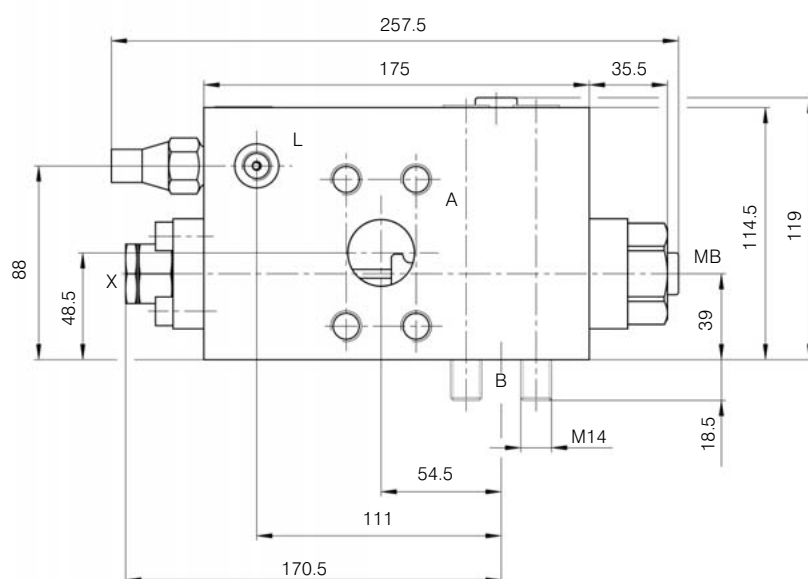
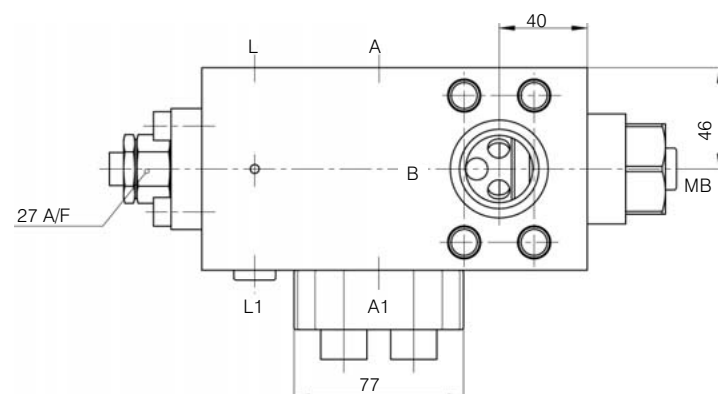
41.1 Port sizes / weight

Port	Port size	O-Ring
A, A1	SAE 1 1/4" 6000 psi	-
B	SAE 1 1/4" 6000 psi	3.53x37.69
X, L, L1, L2, MB, MX	G 1/4"	-

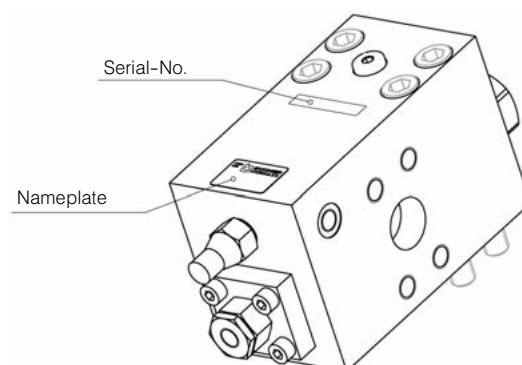
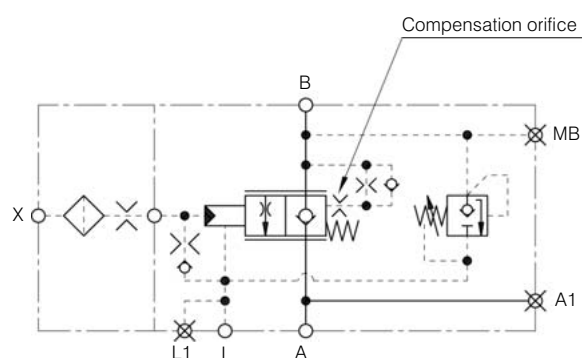
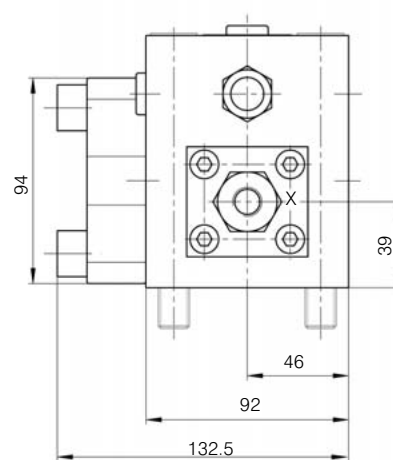
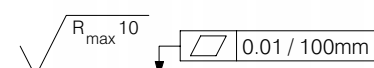
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 13.9 kg

41.2 Standard model

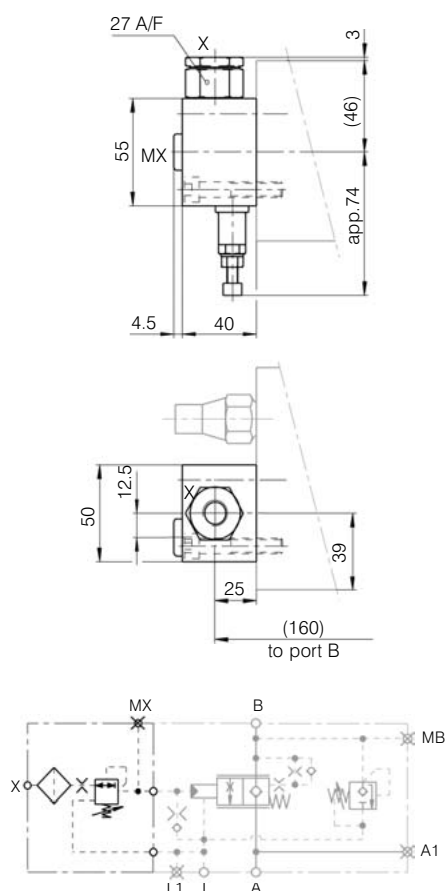


Required quality of the mating surface:

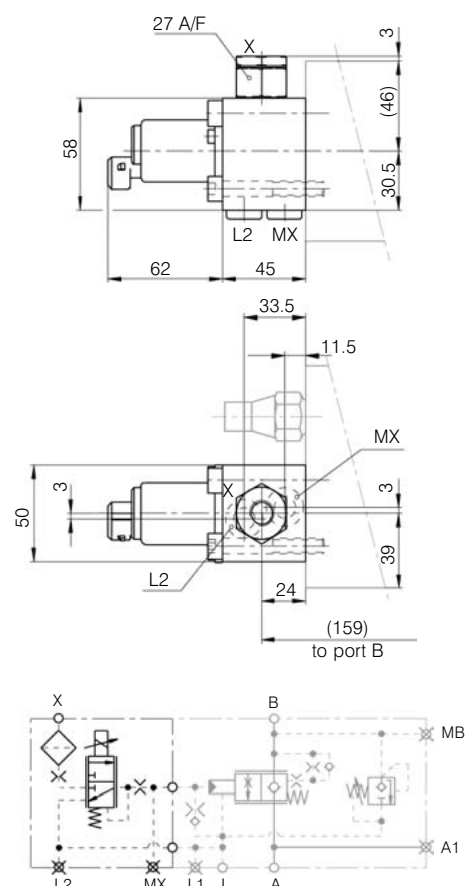


41.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the "hydraulic pressure reducing valve" (R)

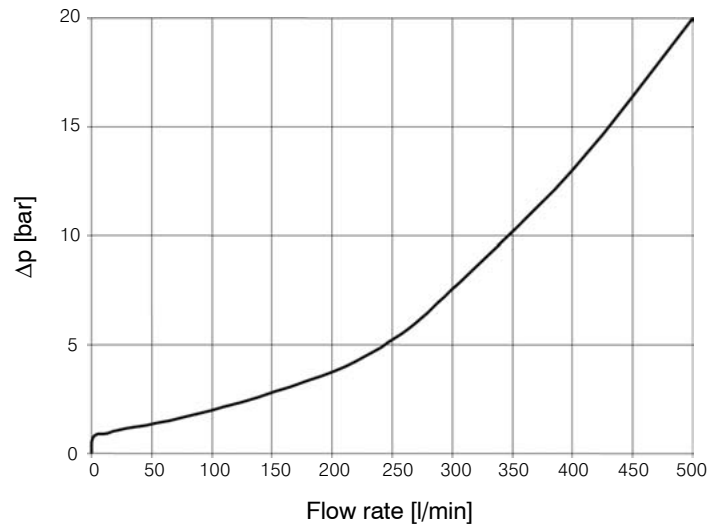


Pilot-control with the "electro-proportional pressure reducing valve" (E)

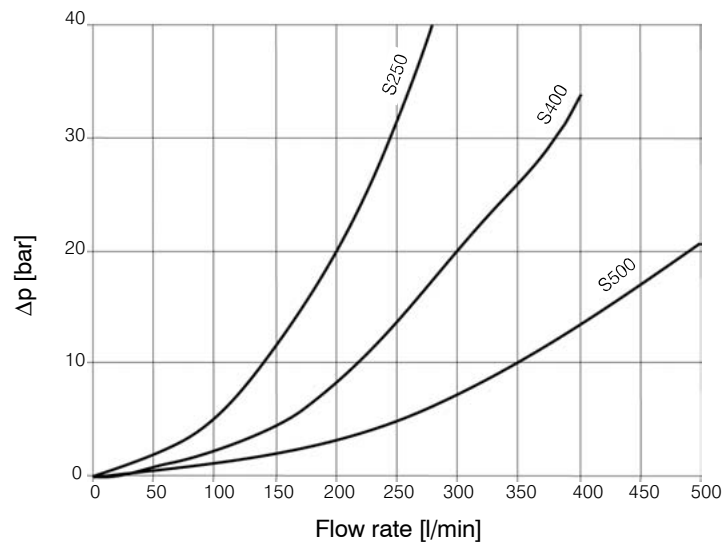


41.4 Characteristic curves (measured at 33 mm²/s [cSt])

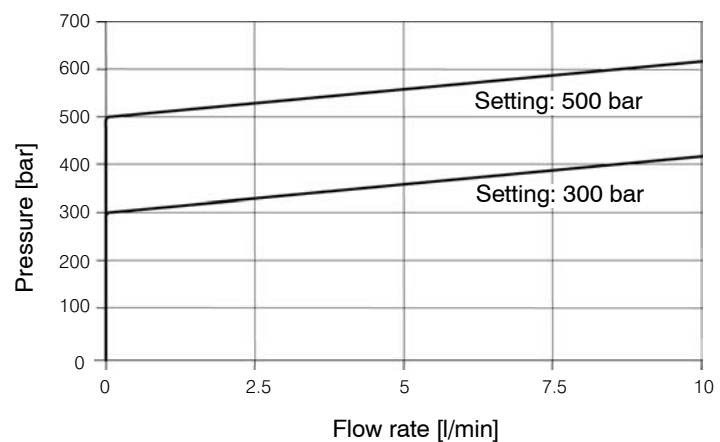
41.4.1 Δp from A $\rightarrow$ B (Lifting)



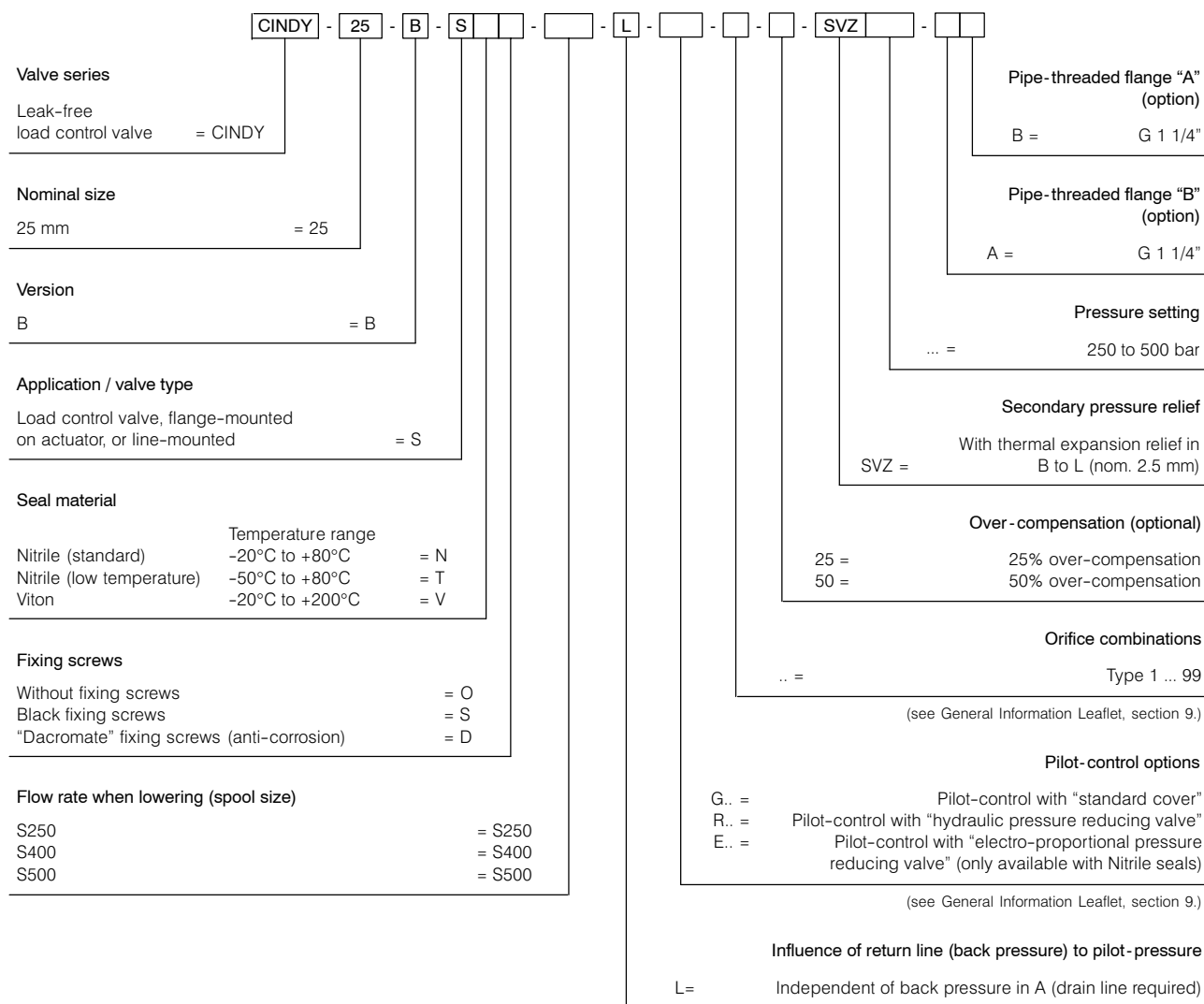
41.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



41.4.3 Opening characteristic of the thermal expansion pressure relief (UVP-4)



41.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010233.....	300 6010301.....	300 6010347.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-S-N-1-G 300.0306759	Service packages Cindy 25-B-S-V-1-G 300.0306794	Service packages Cindy 25-B-S-T-1-G 300.0306833
Pilot-control type R Art. No.	Service packages Cindy 25-B-S-N-1-R 300.0306761	Service packages Cindy 25-B-S-V-1-R 300.0306796	Service packages Cindy 25-B-S-T-1-R 300.0306835
Pilot-control type E Art. No.	Service packages Cindy 25-B-S-N-1-E 300.0306762	Only available with Nitrile seals	Only available with Nitrile seals
Optional A flange	300.0306805	300.0306808	300.0306811
Optional SVZ	250-350 bar 300.6010408	250-350 bar 300.6010409	250-350 bar 300.6010410
	350-500 bar 300.6010411	350-500 bar 300.6010412	350-500 bar 300.6010413

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