

Safety for Hydraulics “Cindy” Leak-Free Load Control Valves, Manifold Mounting Design



motion and progress

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1. Selection table for type P, serie Cindy

X = standard catalogue valve

Flow rate [l/min.]	Interface	With secondary pressure relief valve (see General Information Leaflet, section 10.)	Pilot pressure depending of back-pressure	Pilot pressure in- depending of back-pressure	Catalogue data sheet / page nos.
Cindy 12-B-P to 150 [l/min.]	Bucher standard		X		sect. 2., p. 4
				X	sect. 3., p. 8
		in return line	X		sect. 4., p. 12
		in in return line		X	sect. 5., p. 16
		in tank line		X	sect. 6., p. 20
Cindy 16-B-P to 250 [l/min.]	Bucher standard		X		sect. 7., p. 24
				X	sect. 8., p. 28
		in return line	X		sect. 9., p. 32
		in return line		X	sect. 10., p. 36
		in tank line		X	sect. 11., p. 40
Cindy 20-B-P to 350 [l/min.]	Bucher standard		X		sect. 12., p. 44
				X	sect. 13., p. 48
		in return line	X		sect. 14., p. 52
		in return line		X	sect. 15., p. 56
		in tank line		X	sect. 16., p. 60
Cindy 25-B-P to 500 [l/min.]	Bucher standard		X		sect. 17., p. 64
				X	sect. 18., p. 68
		in return line	X		sect. 19., p. 72
		in return line		X	sect. 20., p. 76
		in tank line		X	sect. 21., p. 80

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

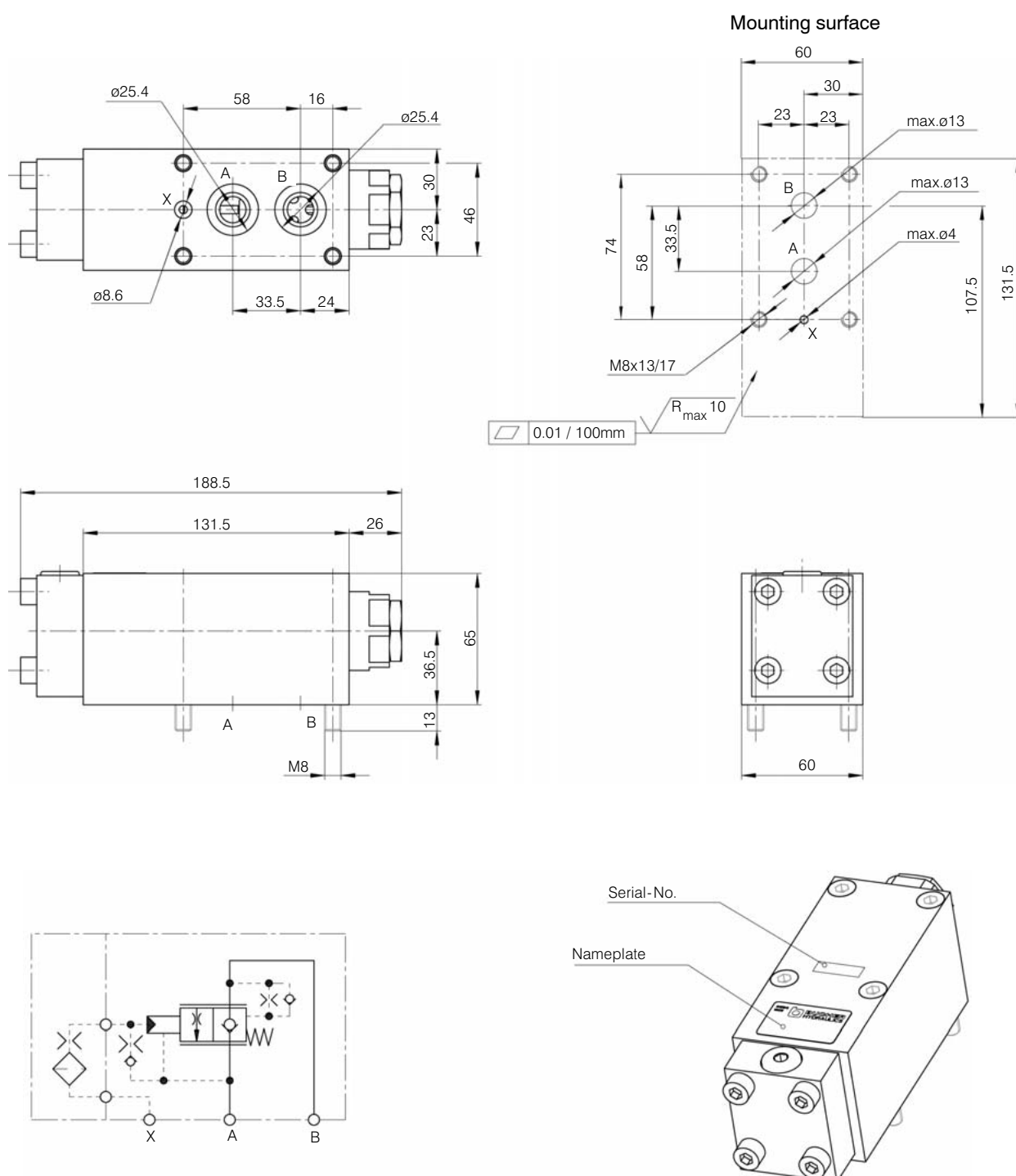
2.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 13$	3.53x18.66
B	max. $\varnothing 13$	3.53x18.66
X	max. $\varnothing 4$	1.78x5.28

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

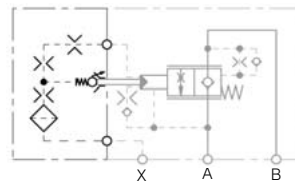
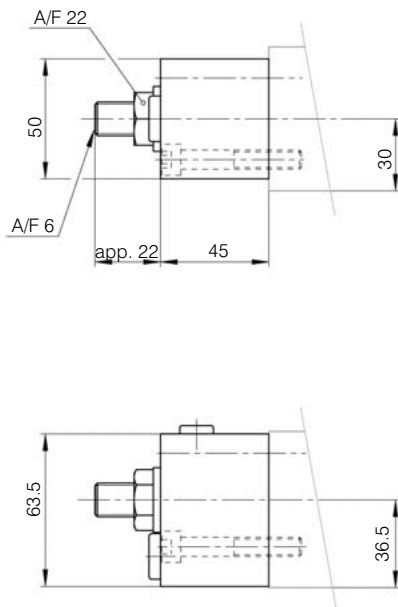
Weight: approx. 4.1 kg

2.2 Standard model

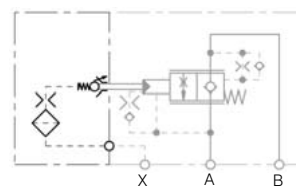
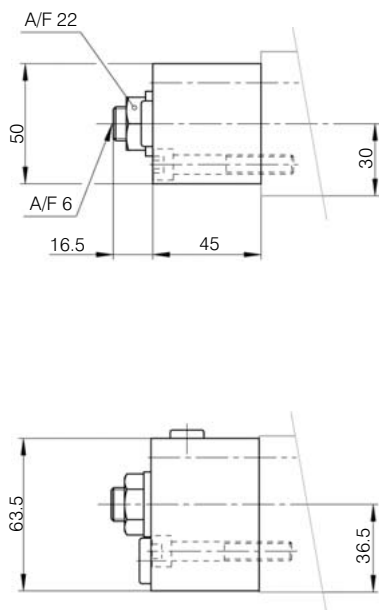


2.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the “damping cover” (D)

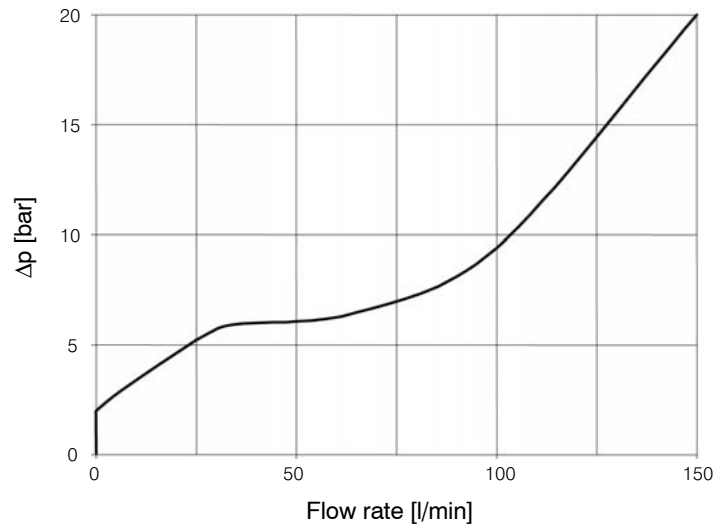


Pilot-control with the “hydro-mechanical stroke limiter” (H)

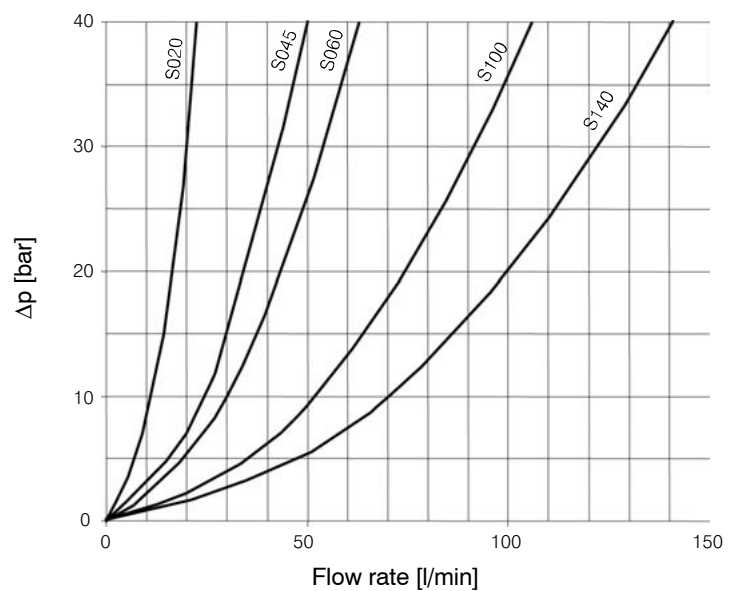


2.4 Characteristic curves (measured at 33 mm²/s [cSt])

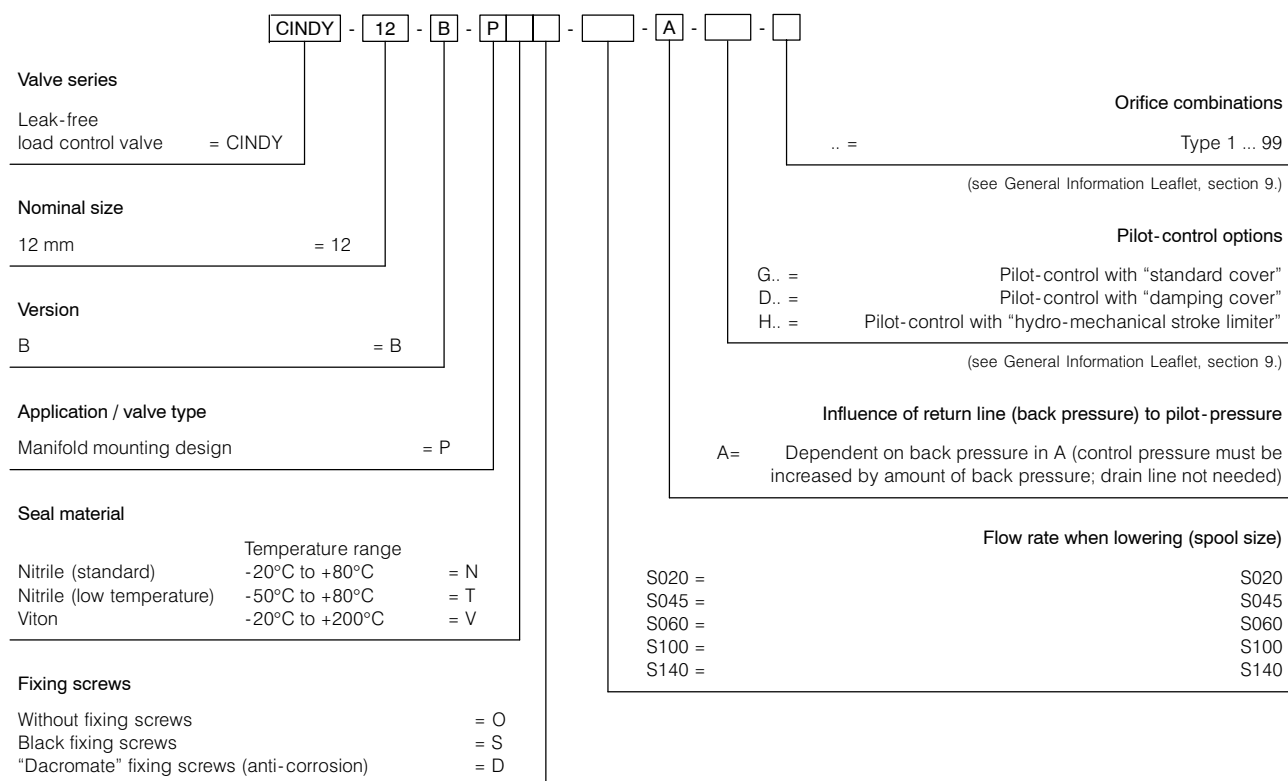
2.4.1 Δp from A $\rightarrow$ B (Lifting)



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 6010628.....	300 6010633.....	300 6010638.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-P-N-1-G 300.0306941	Service packages Cindy 12-B-P-V-1-G 300.0306947	Service packages Cindy 12-B-P-T-1-G 300.0306953
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-P-N-1-D 300.0306942	Service packages Cindy 12-B-P-V-1-D 300.0306948	Service packages Cindy 12-B-P-T-1-D 300.0306954

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

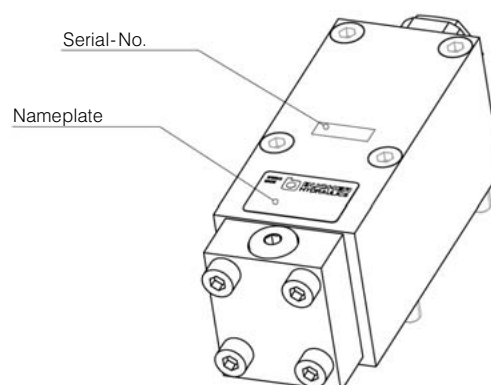
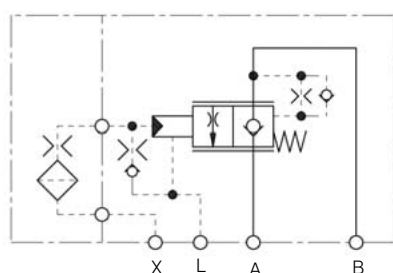
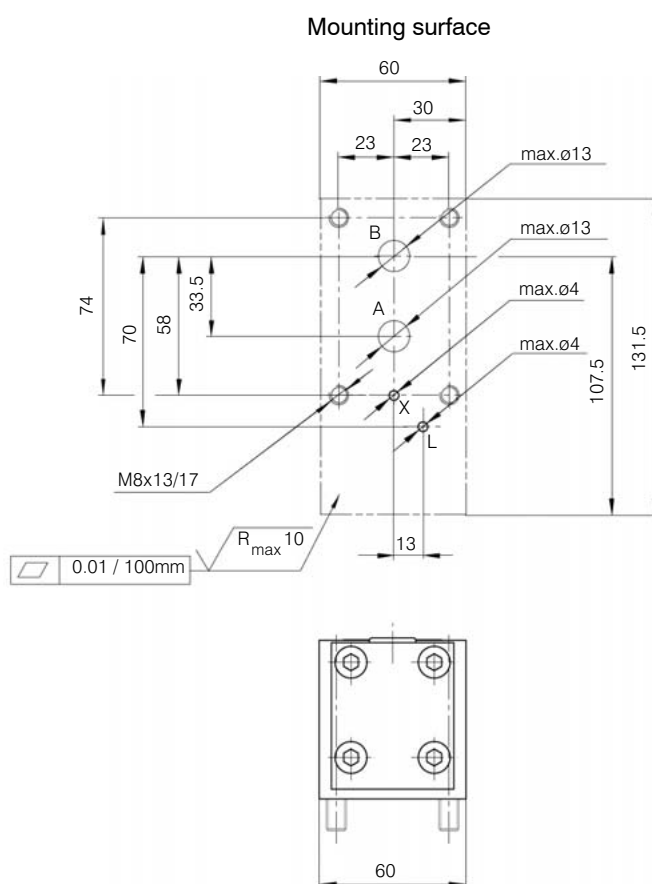
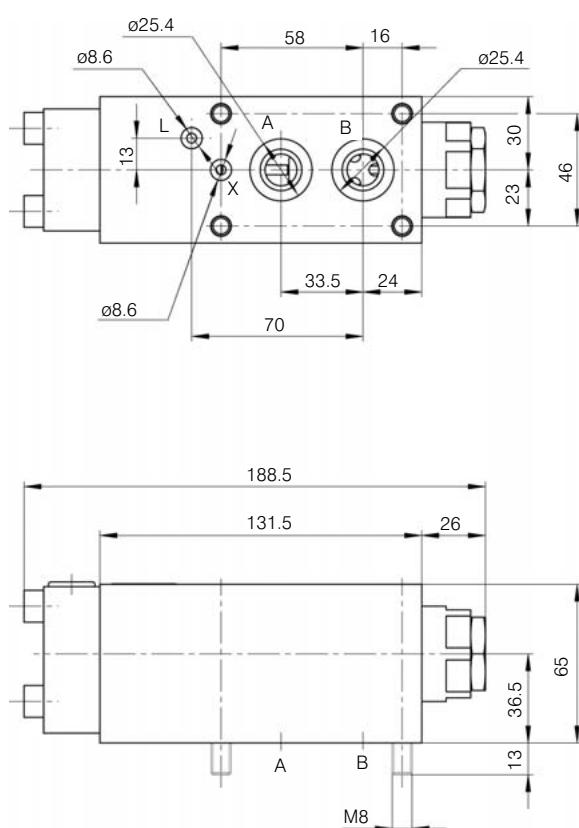
3.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 13$	3.53x18.66
B	max. $\varnothing 13$	3.53x18.66
X, L	max. $\varnothing 4$	1.78x5.28

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

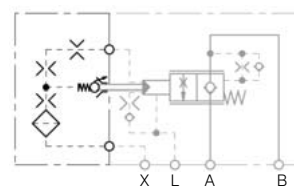
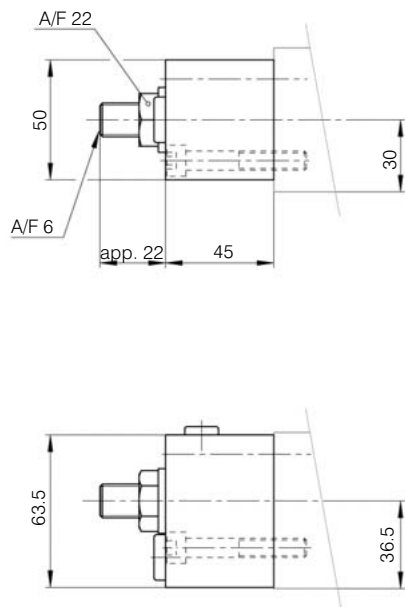
Weight: approx. 4.1 kg

3.2 Standard model

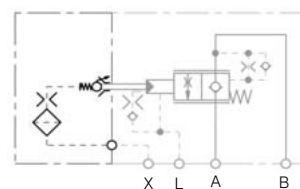
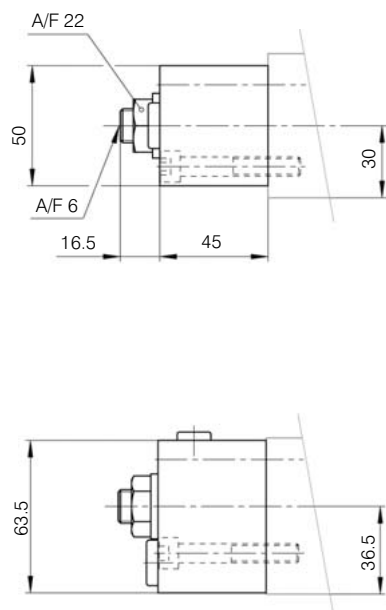


3.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the “damping cover” (D)

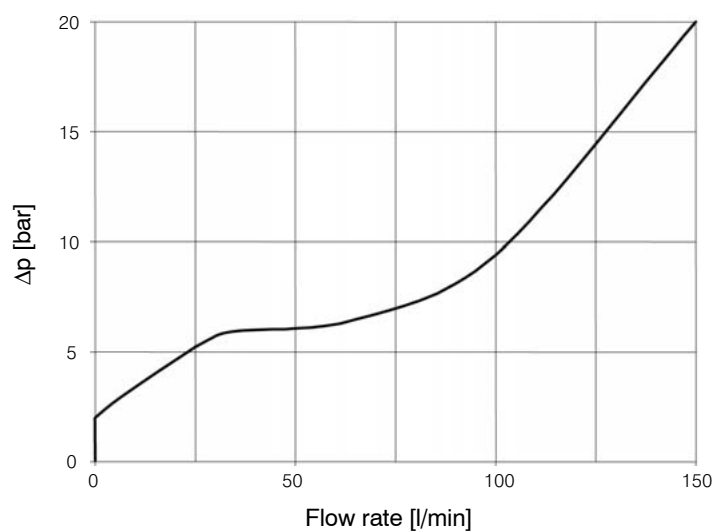


Pilot-control with the “hydro-mechanical stroke limiter” (H)

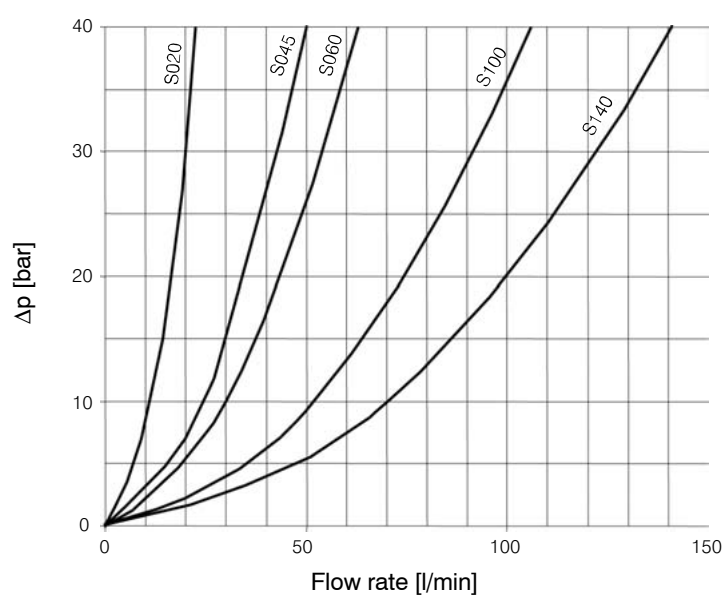


3.4 Characteristic curves (measured at 33 mm²/s [cSt])

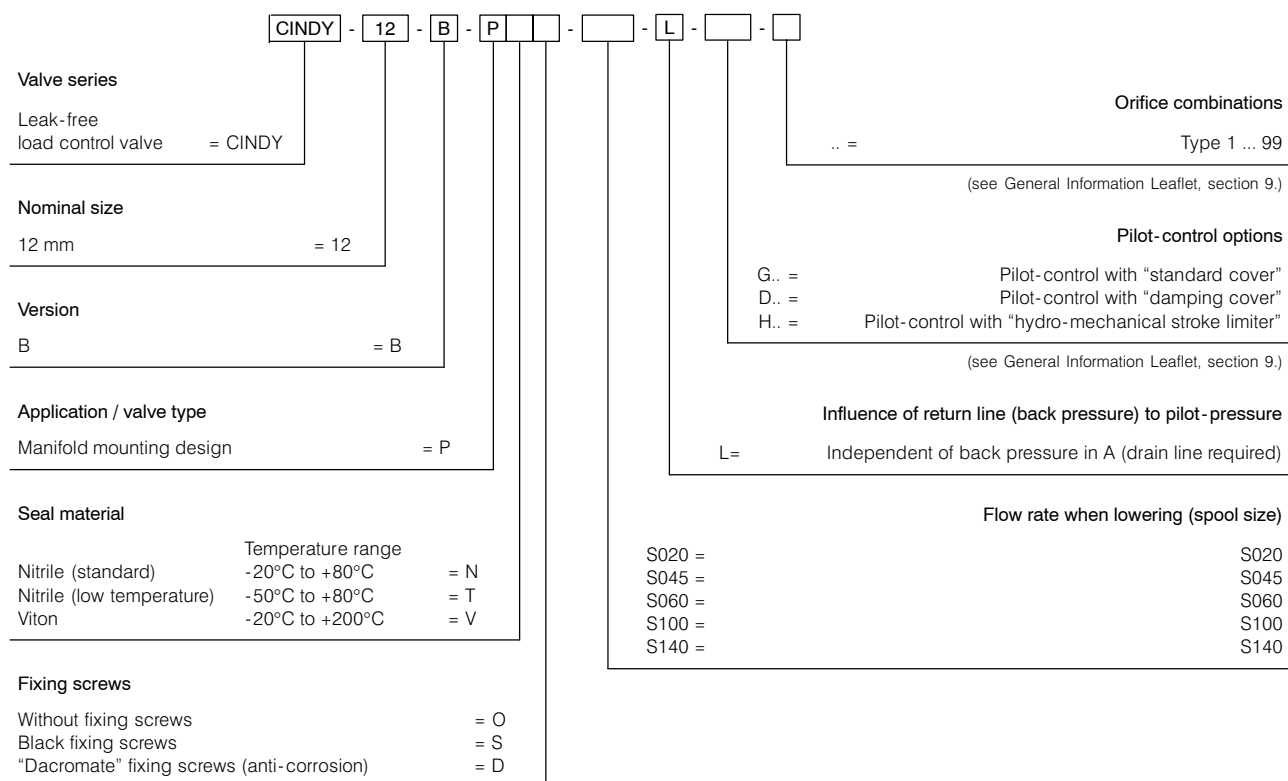
3.4.1 Δp from A $\rightarrow$ B (Lifting)



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 6010629.....	300 6010634.....	300 6010639.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-P-N-1-G 300.0306941	Service packages Cindy 12-B-P-V-1-G 300.0306947	Service packages Cindy 12-B-P-T-1-G 300.0306953
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-P-N-1-D 300.0306942	Service packages Cindy 12-B-P-V-1-D 300.0306948	Service packages Cindy 12-B-P-T-1-D 300.0306954

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

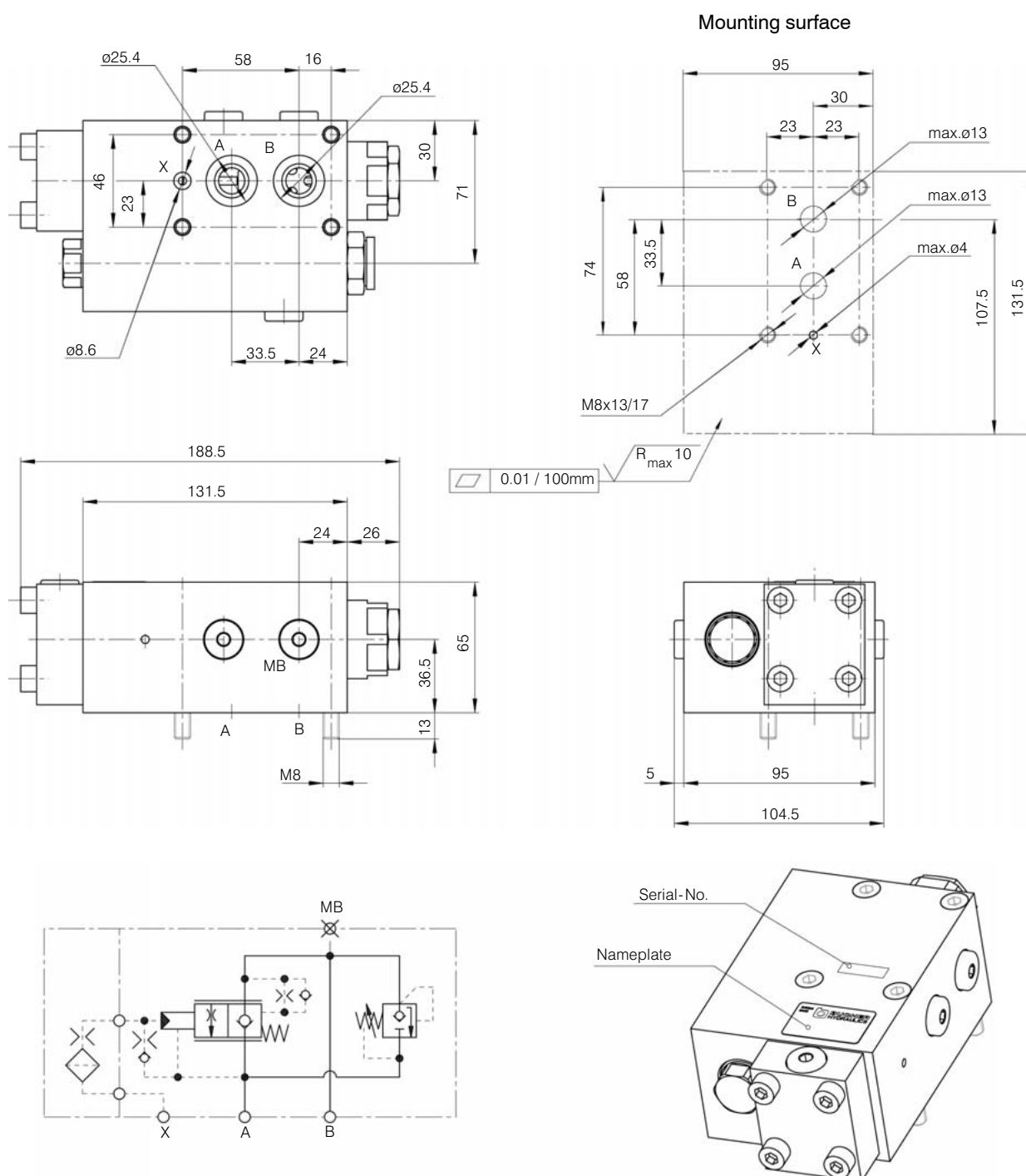
4.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 13$	3.53x18.66
B	max. $\varnothing 13$	3.53x18.66
X	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

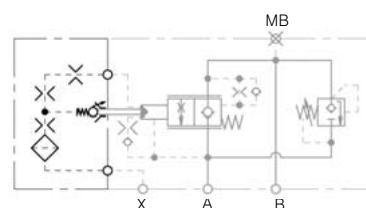
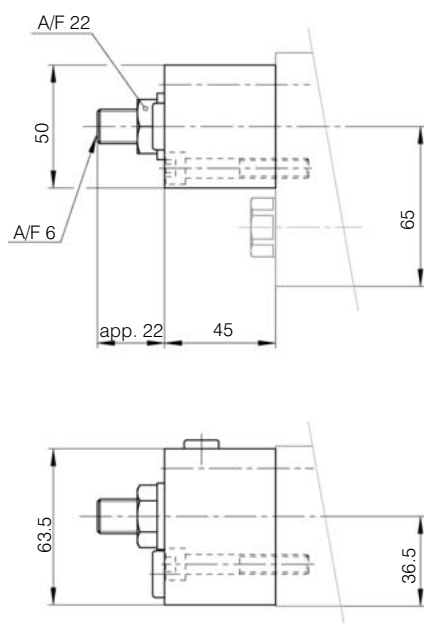
Weight: approx. 6.2 kg

4.2 Standard model

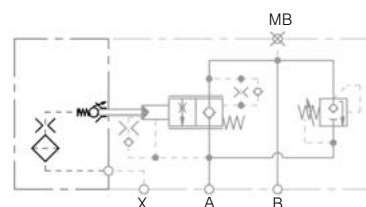
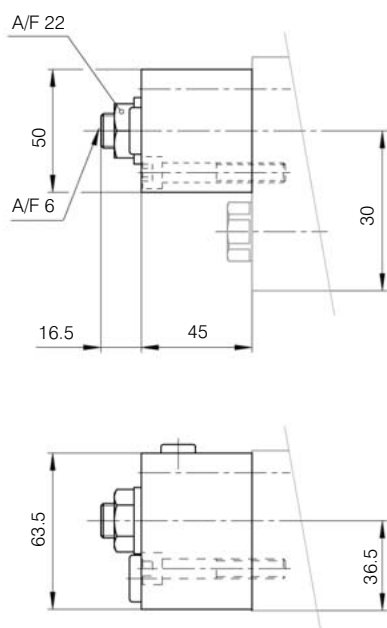


4.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the “damping cover” (D)

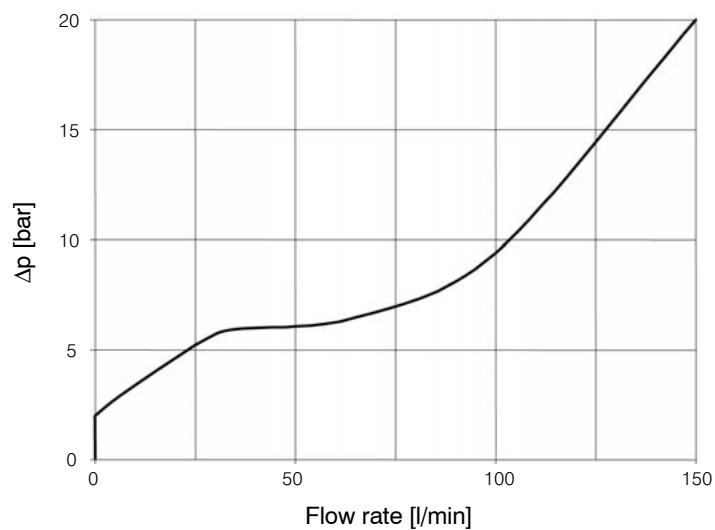


Pilot-control with the “hydro-mechanical stroke limiter” (H)

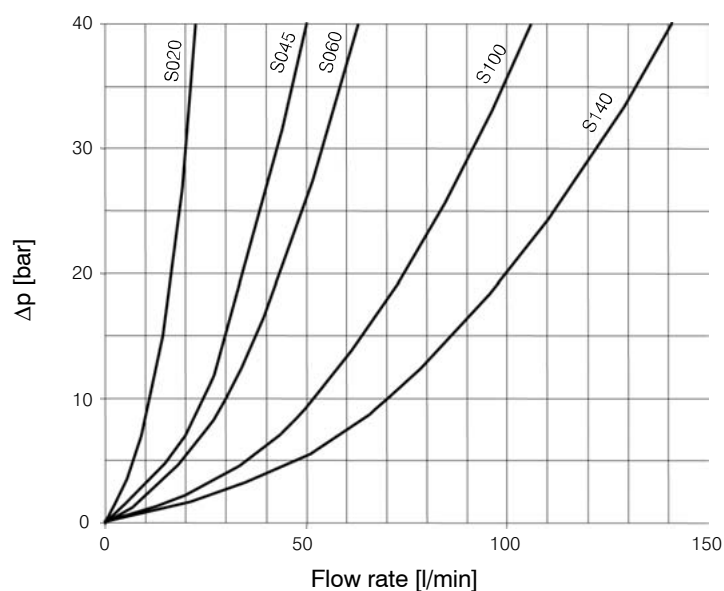


4.4 Characteristic curves (measured at 33 mm²/s [cSt])

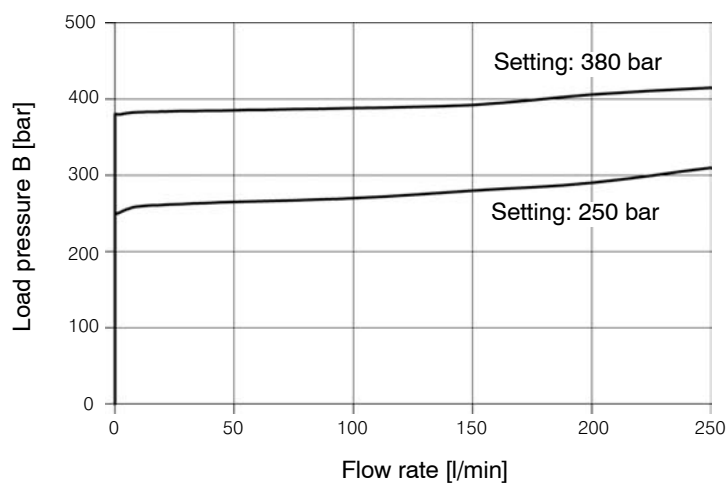
4.4.1 Δp from A $\rightarrow$ B (Lifting)



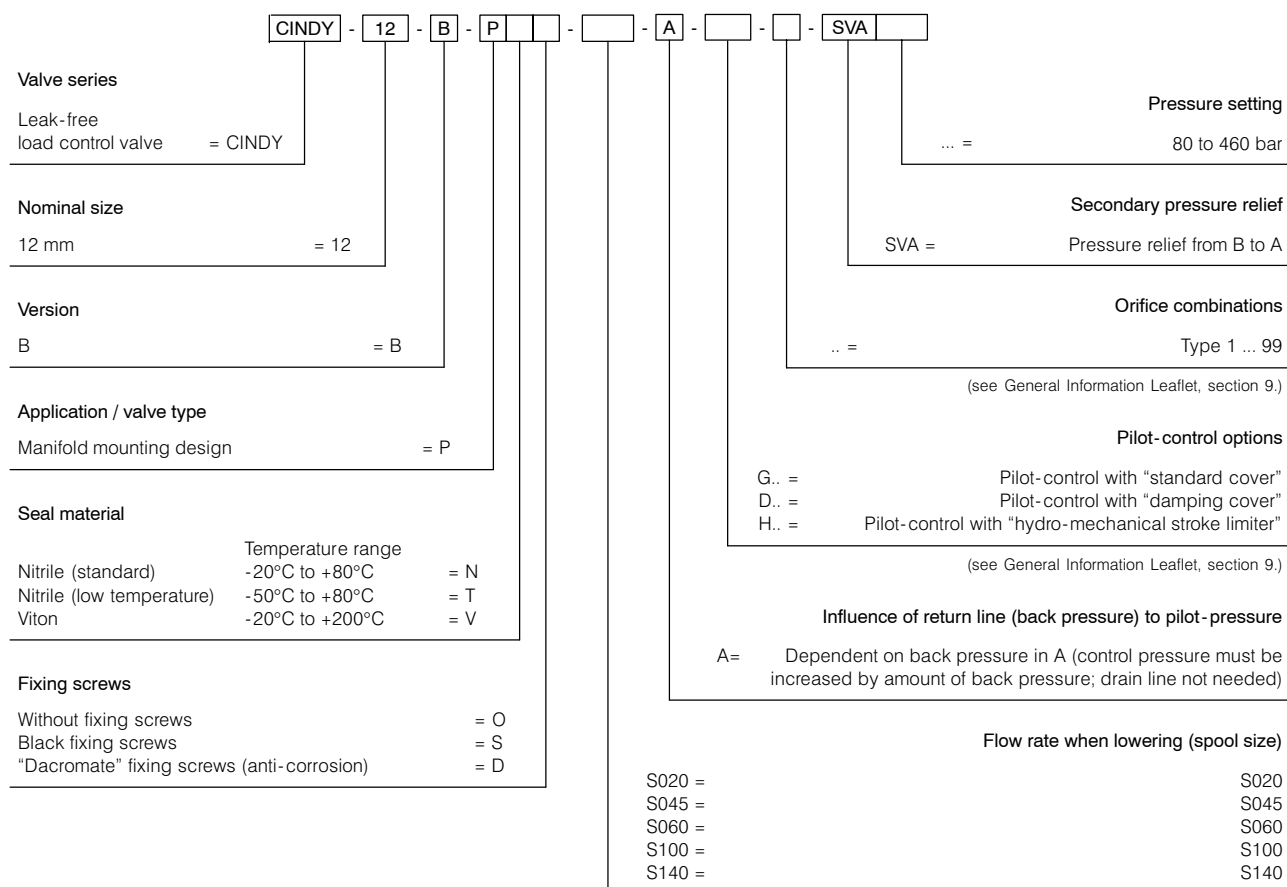
4.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



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 6010630.....	300 6010635.....	300 6010640.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-P-N-2-G 300.0306943	Service packages Cindy 12-B-P-V-2-G 300.0306949	Service packages Cindy 12-B-P-T-2-G 300.0306955
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-P-N-2-D 300.0306944	Service packages Cindy 12-B-P-V-2-D 300.0306950	Service packages Cindy 12-B-P-T-2-D 300.0306956

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

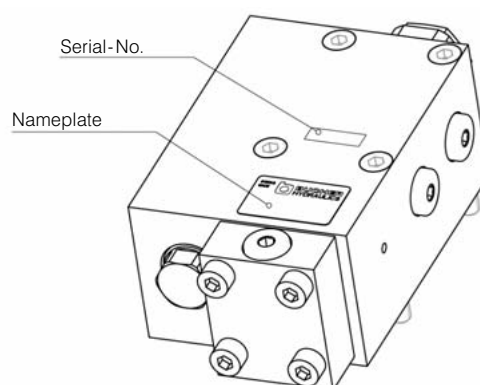
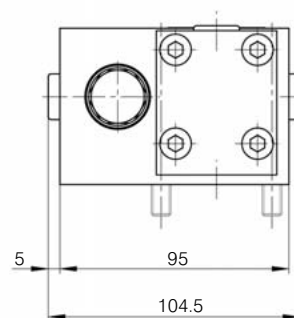
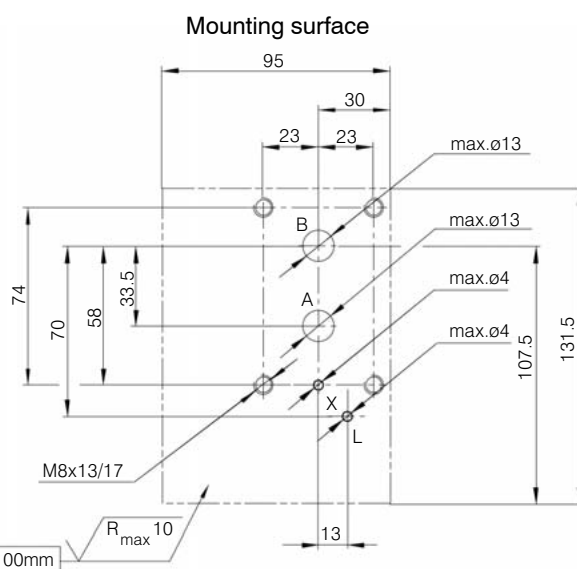
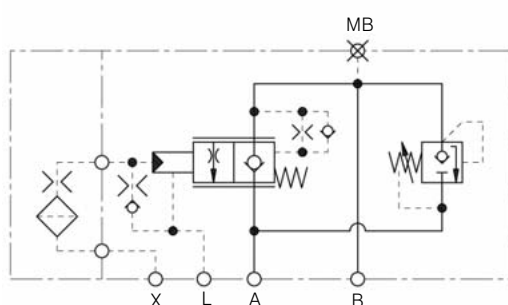
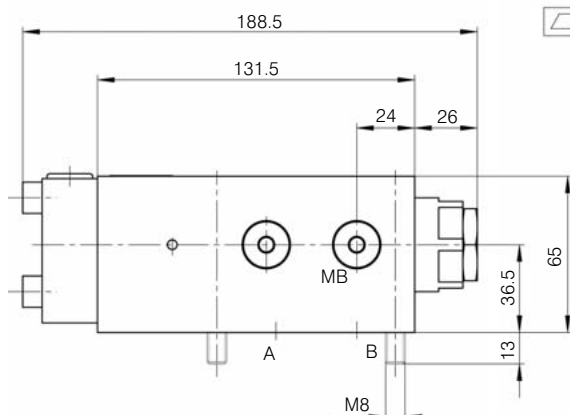
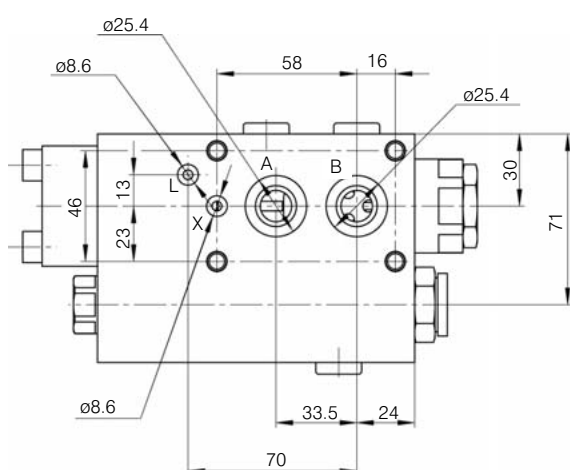
5.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 13$	3.53x18.66
B	max. $\varnothing 13$	3.53x18.66
X, L	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

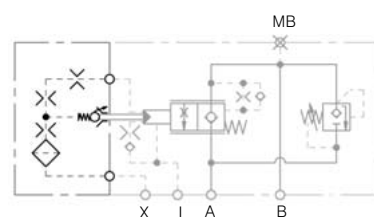
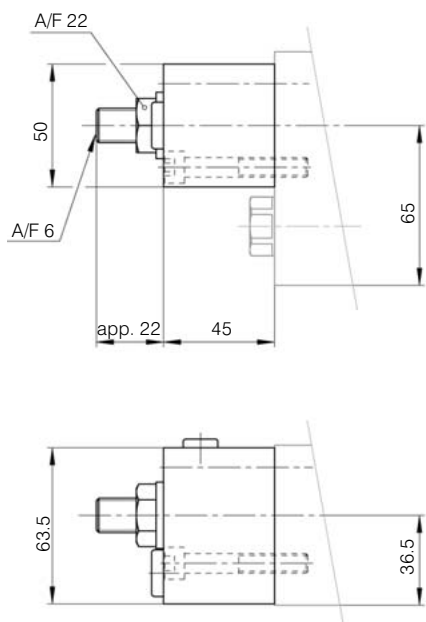
Weight: approx. 6.2 kg

5.2 Standard model

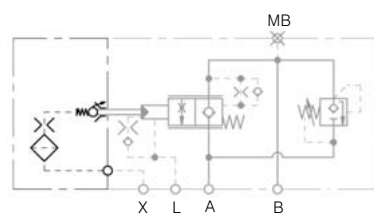
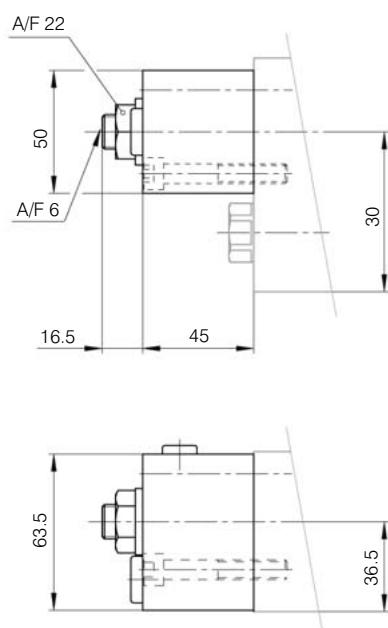


5.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the “damping cover” (D)

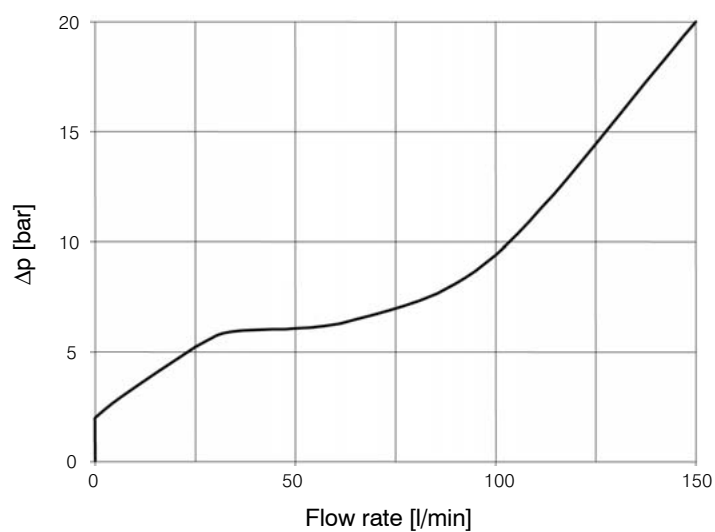


Pilot-control with the “hydro-mechanical stroke limiter” (H)

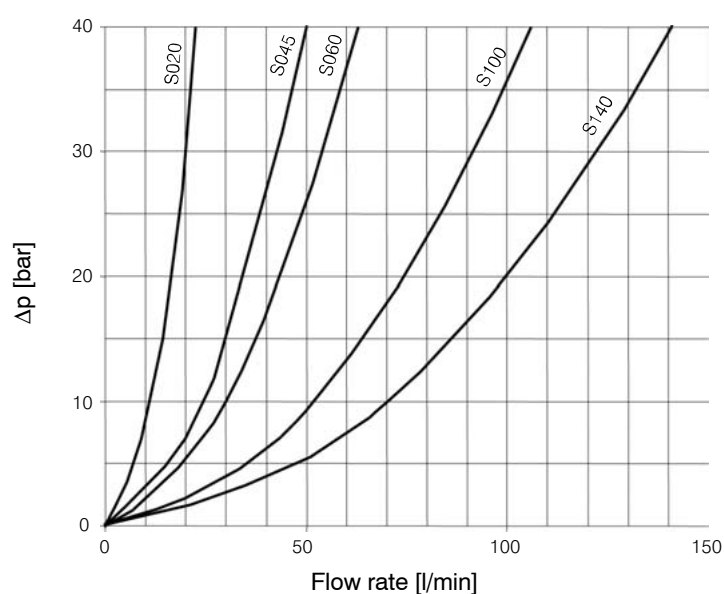


5.4 Characteristic curves (measured at 33 mm²/s [cSt])

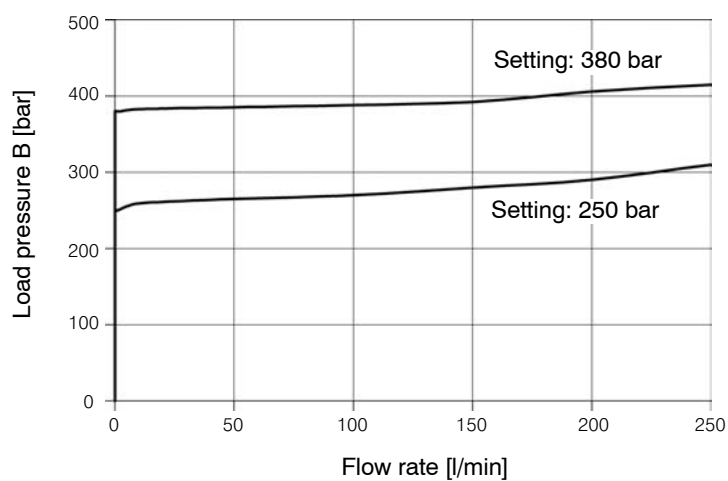
5.4.1 Δp from A $\rightarrow$ B (Lifting)



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 - P - - - - - 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
Manifold mounting design = P			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
			L = Independent of back pressure in A (drain line required)
			Flow rate when lowering (spool size)
			S020 = S020
			S045 = S045
			S060 = S060
			S100 = S100
			S140 = S140
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			

Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010631.....	300 6010636.....	300 6010641.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-P-N-2-G 300.0306943	Service packages Cindy 12-B-P-V-2-G 300.0306949	Service packages Cindy 12-B-P-T-2-G 300.0306955
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-P-N-2-D 300.0306944	Service packages Cindy 12-B-P-V-2-D 300.0306950	Service packages Cindy 12-B-P-T-2-D 300.0306956

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

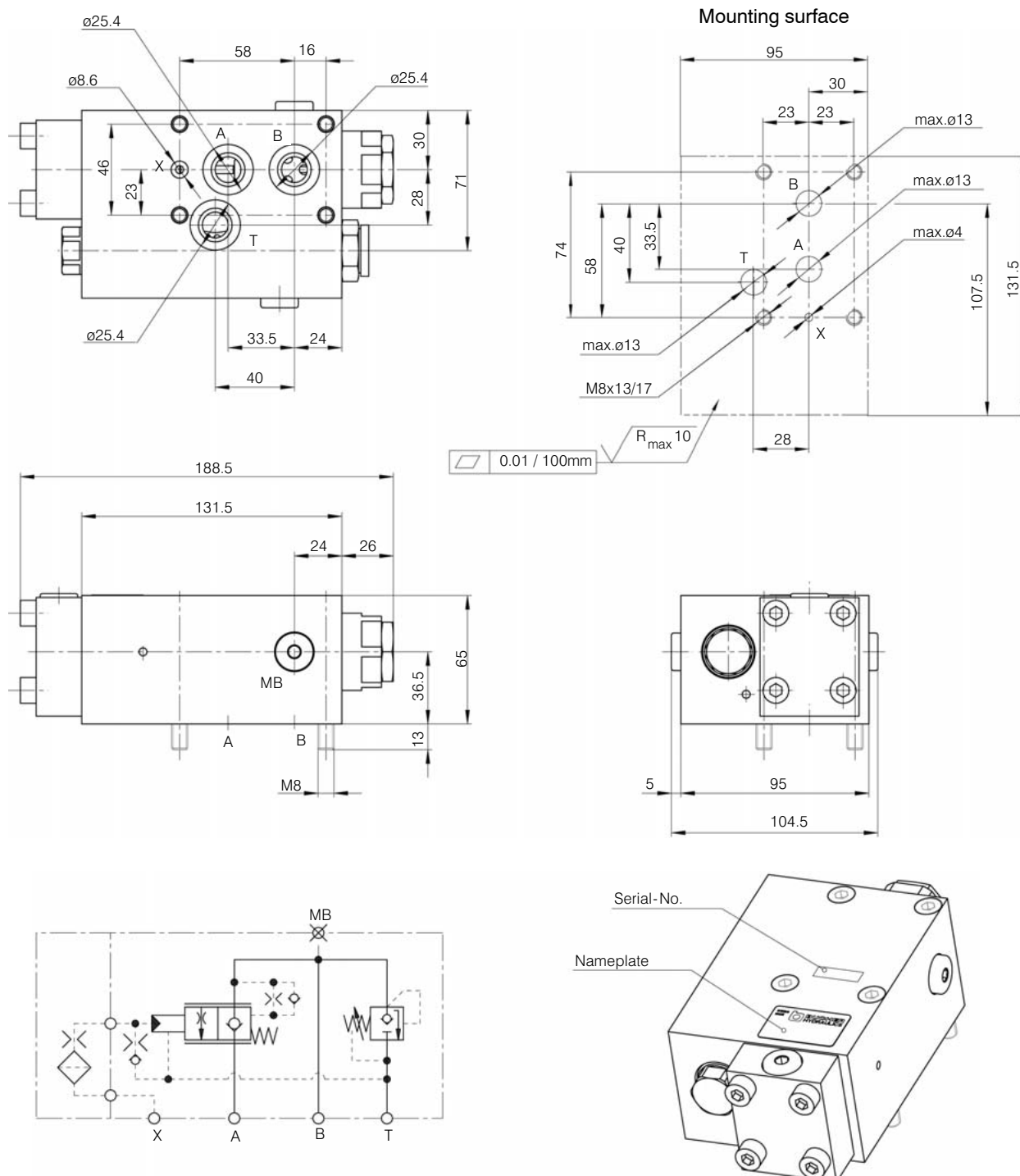
6.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 13$	3.53x18.66
B	max. $\varnothing 13$	3.53x18.66
T	max. $\varnothing 13$	3.53x18.66
X	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

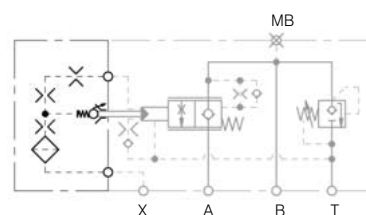
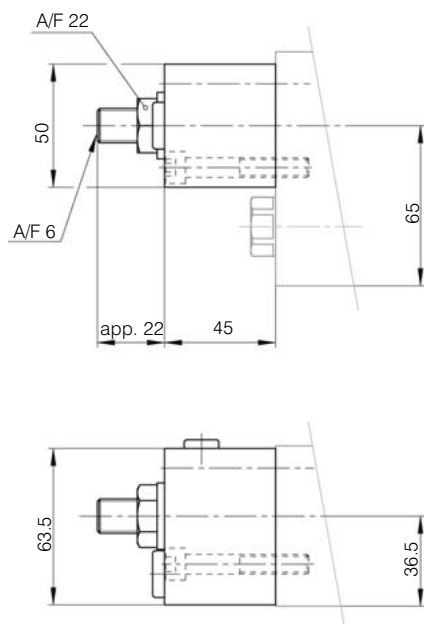
Weight: approx. 6.2 kg

6.2 Standard model

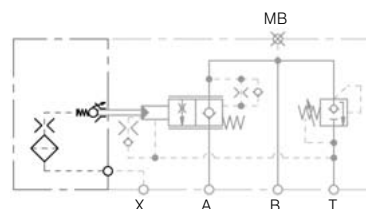
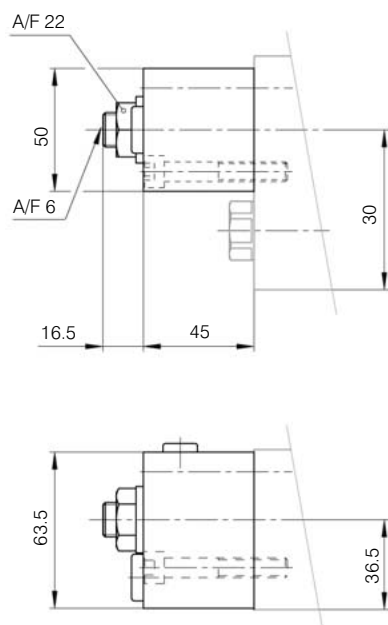


6.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the “damping cover” (D)

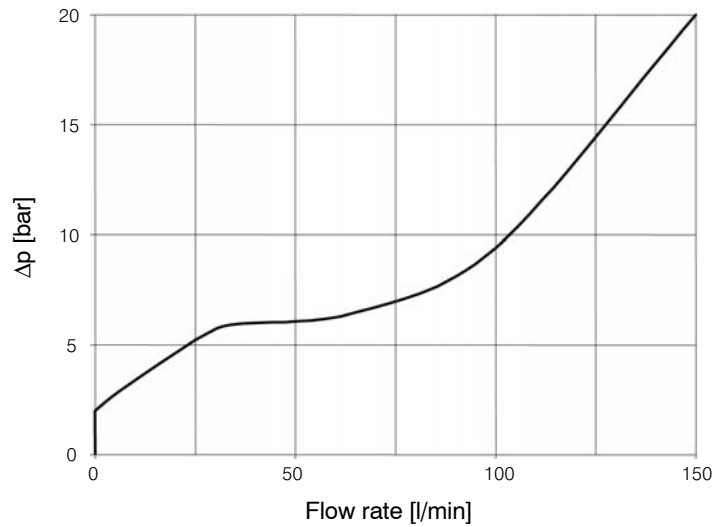


Pilot-control with the “hydro-mechanical stroke limiter” (H)

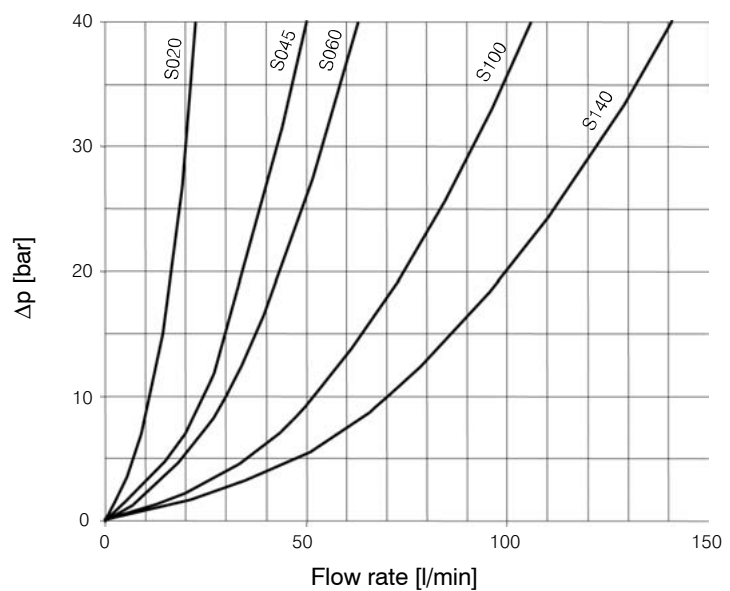


6.4 Characteristic curves (measured at 33 mm²/s [cSt])

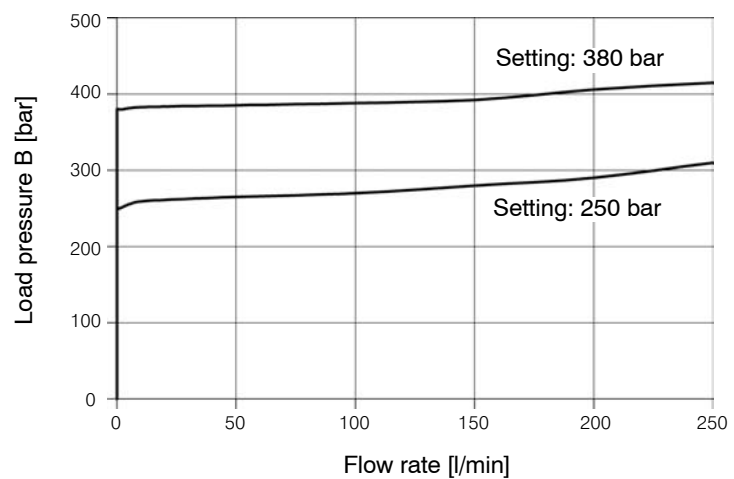
6.4.1 Δp from A $\rightarrow$ B (Lifting)



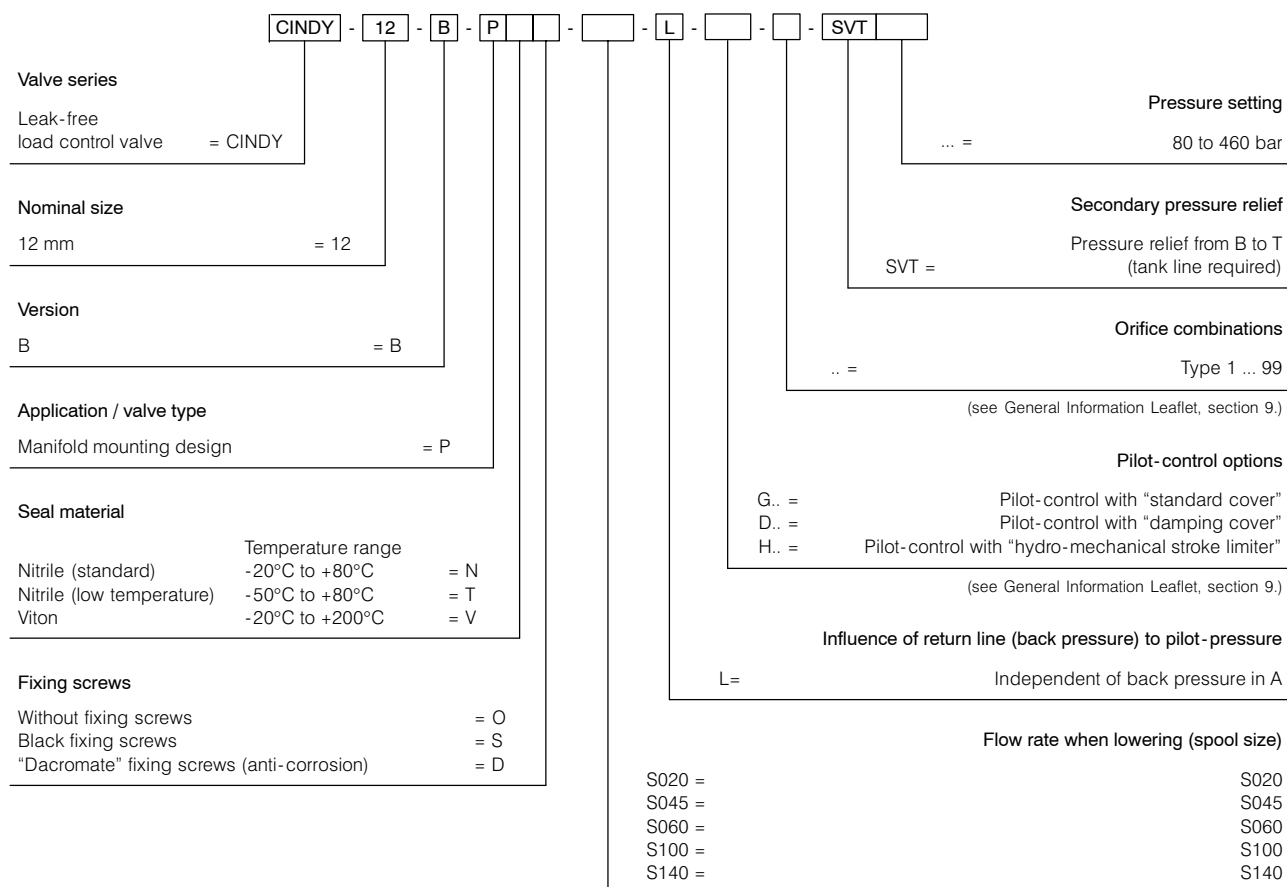
6.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



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 6010632.....	300 6010637.....	300 6010642.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 12-B-P-N-3-G 300.0306945	Service packages Cindy 12-B-P-V-3-G 300.0306951	Service packages Cindy 12-B-P-T-3-G 300.0306957
Pilot-control types D, H Art. No.	Service packages Cindy 12-B-P-N-3-D 300.0306946	Service packages Cindy 12-B-P-V-3-D 300.0306952	Service packages Cindy 12-B-P-T-3-D 300.0306958

7. Description Cindy-16-B-P..-....A-....-

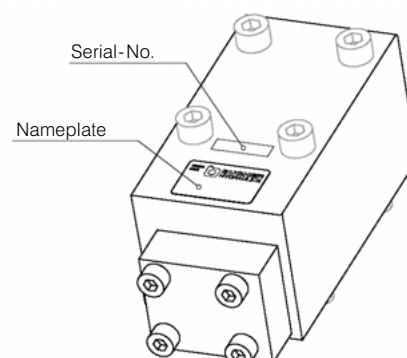
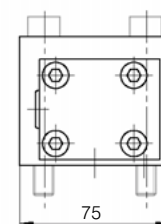
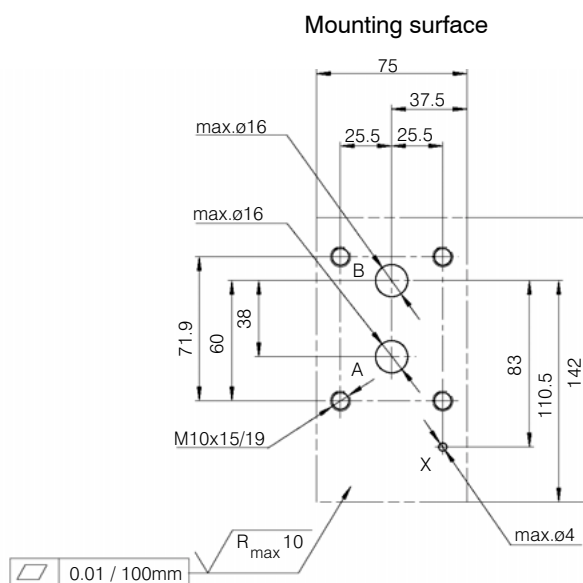
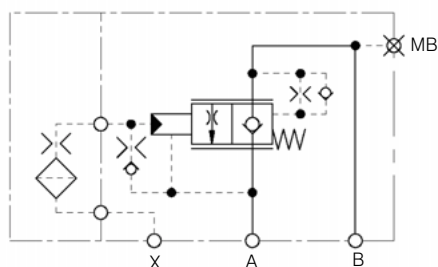
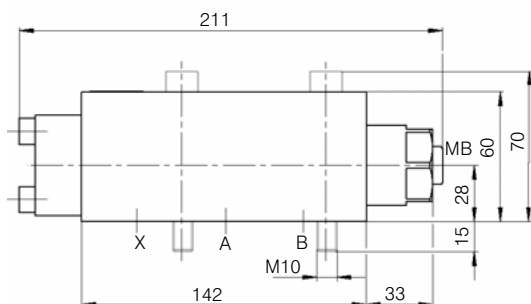
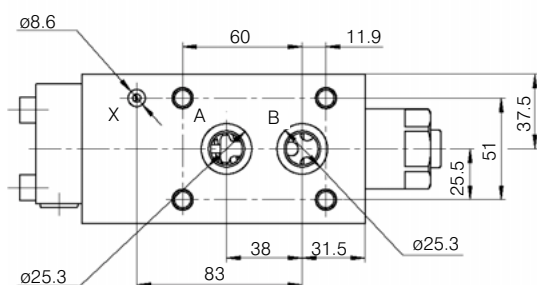
7.1 Port sizes / weight

Port	Port Size	O-Ring
A	max. ø16	2.62x20.29
B	max. ø16	2.62x20.29
X	max. ø4	1.78x5.28
MB	G 1/4"	-

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

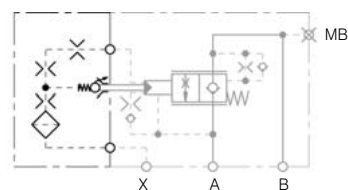
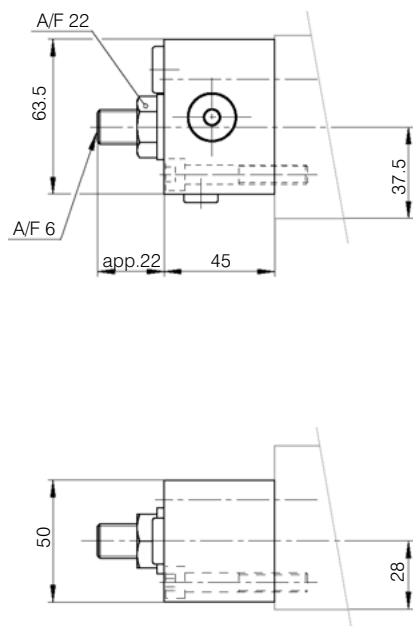
Weight: approx. 5.0 kg

7.2 Standard model

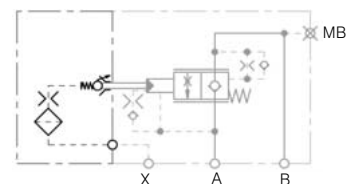
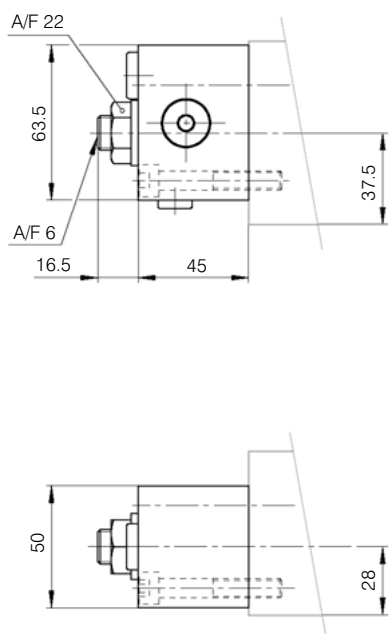


7.3 Pilot-control variants (each can be rotated through 180°)

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

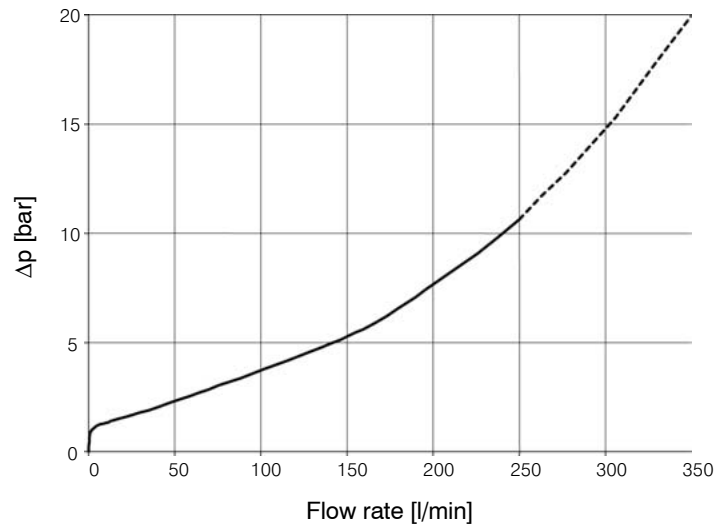


Pilot-control with the "hydro-mechanical stroke limiter" (H)

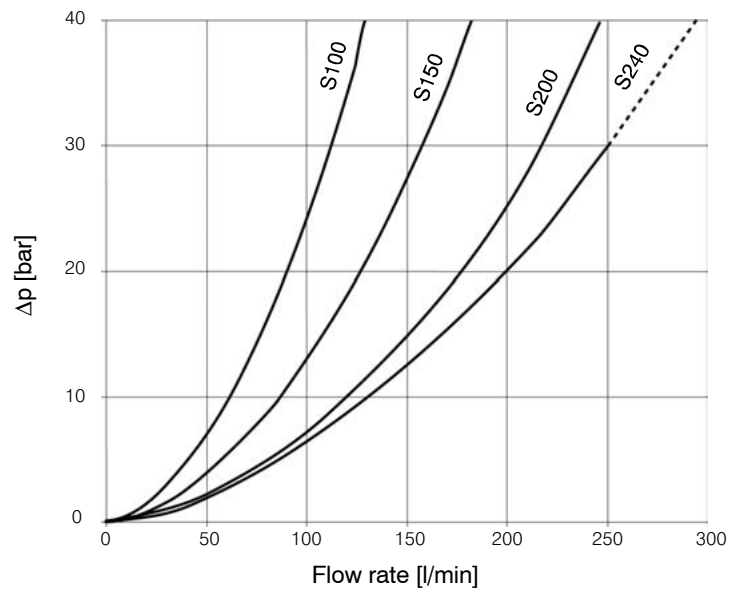


7.4 Characteristic curves (measured at 33 mm²/s [cSt])

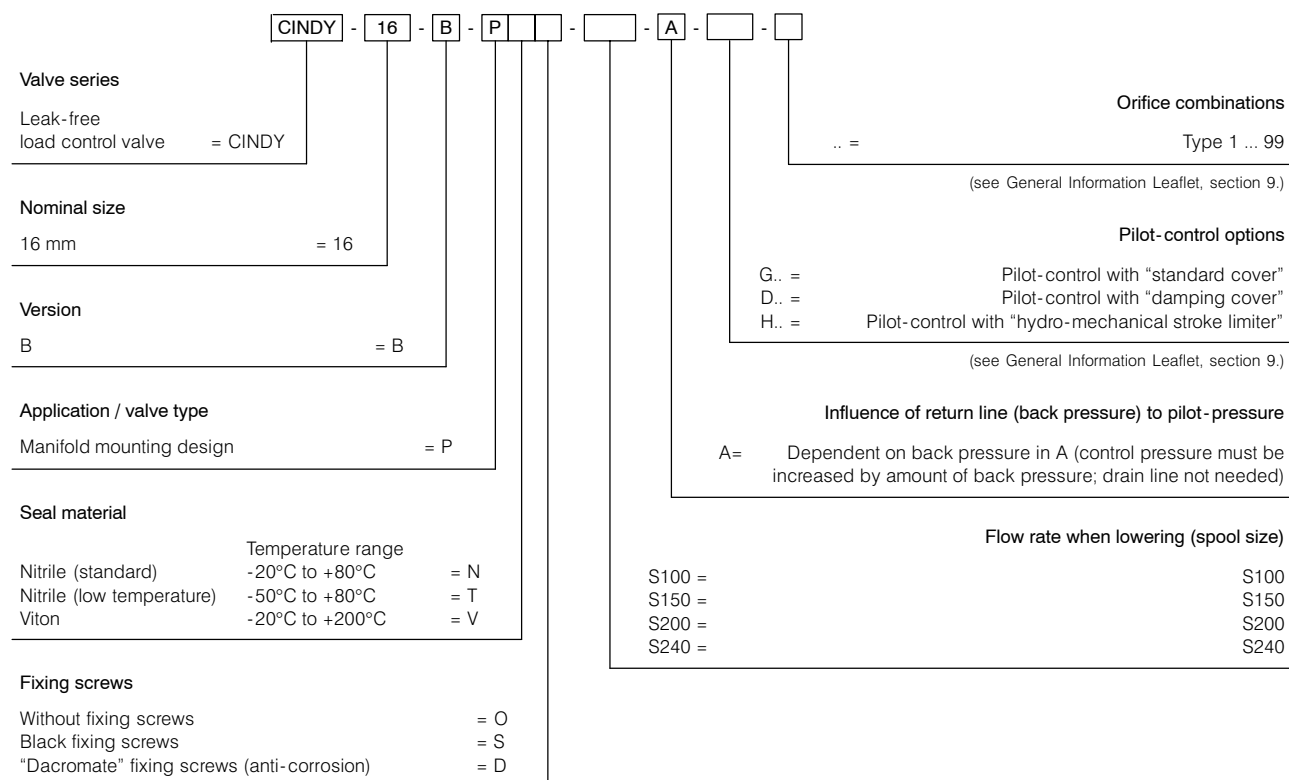
7.4.1 Δp from A $\rightarrow$ B (Lifting)



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



7.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010841.....	300 6010846.....	300 6010851.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-P-N-1-G 300.0307132	Service packages Cindy 16-B-P-V-1-G 300.0307138	Service packages Cindy 16-B-P-T-1-G 300.0307144
Pilot-control types D, H Art. No.	Service packages Cindy 16-B-P-N-1-D 300.0307133	Service packages Cindy 16-B-P-V-1-D 300.0307139	Service packages Cindy 16-B-P-T-1-D 300.0307145

8. Description Cindy-16-B-P.-.....-L-....-

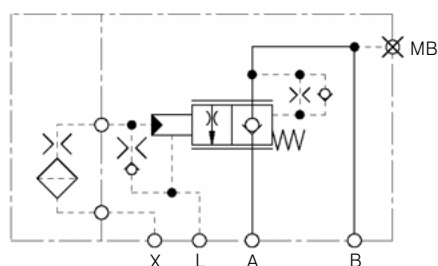
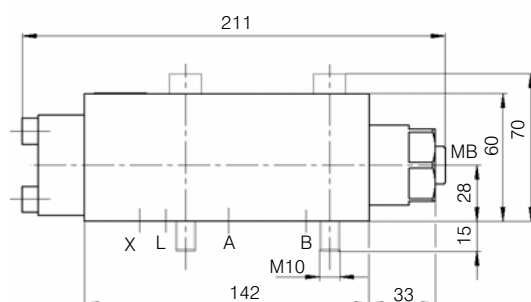
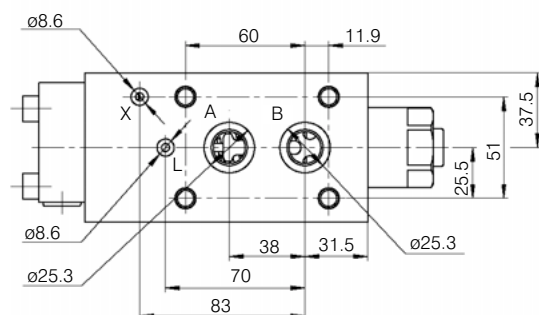
8.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 16$	2.62x20.29
B	max. $\varnothing 16$	2.62x20.29
X, L	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

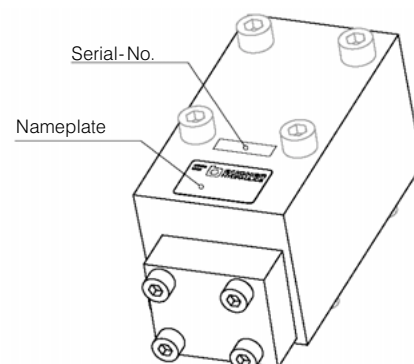
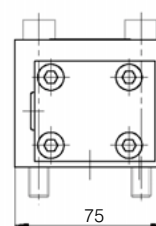
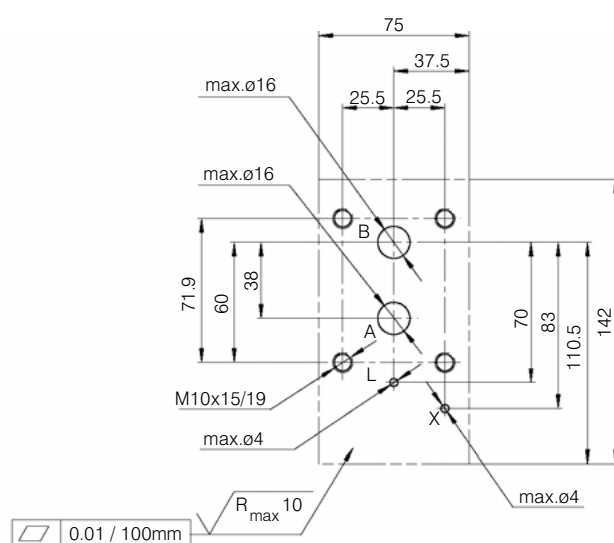
For tightening torques, see Cindy General Information leaflet, section 6.

Weight: approx. 5.0 kg

8.2 Standard model

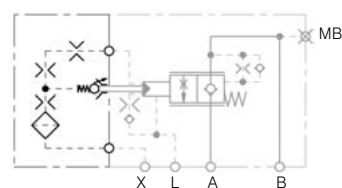
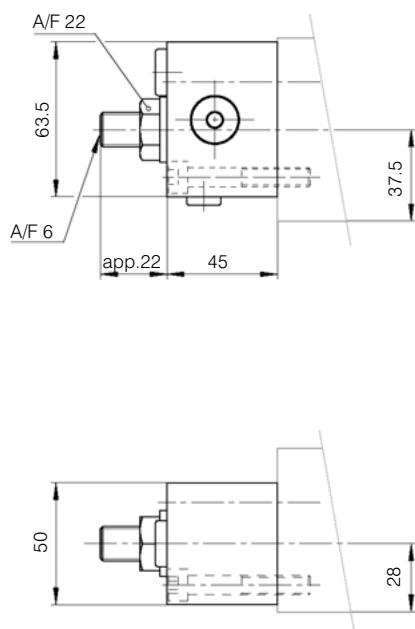


Mounting surface

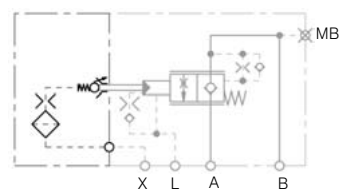
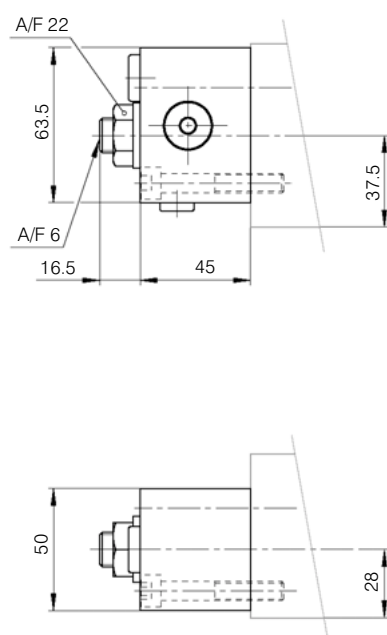


8.3 Pilot-control variants (each can be rotated through 180°)

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

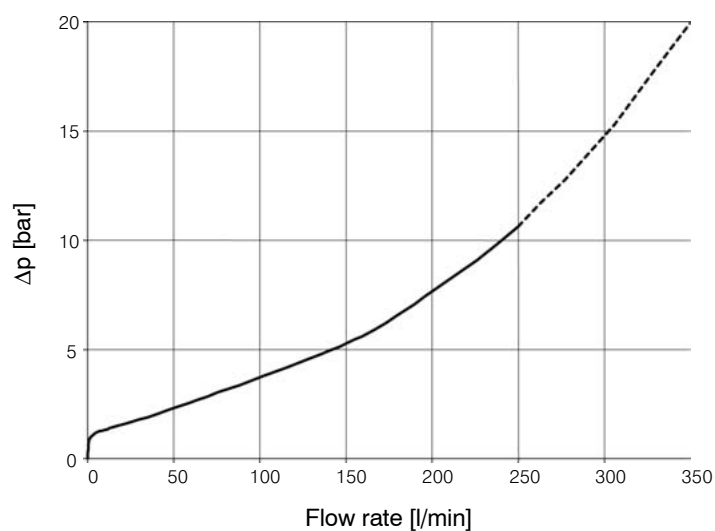


Pilot-control with the "hydro-mechanical stroke limiter" (H)

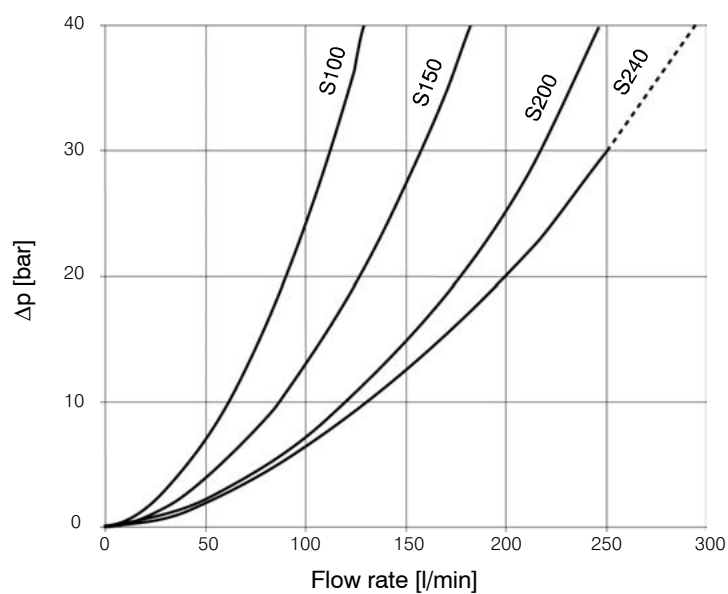


8.4 Characteristic curves (measured at 33 mm²/s [cSt])

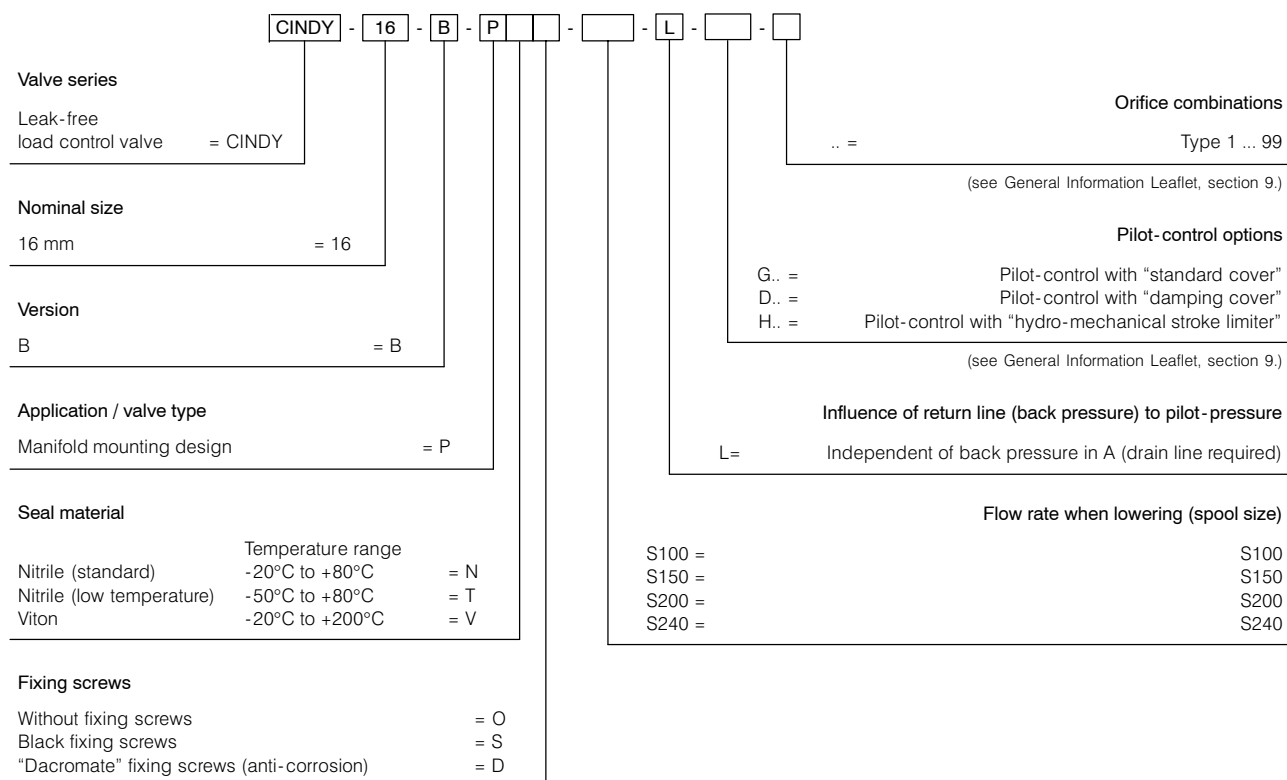
8.4.1 Δp from A $\rightarrow$ B (Lifting)



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



8.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010842.....	300 6010847.....	300 6010852.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-P-N-1-G 300.0307132	Service packages Cindy 16-B-P-V-1-G 300.0307138	Service packages Cindy 16-B-P-T-1-G 300.0307144
Pilot-control types D, H Art. No.	Service packages Cindy 16-B-P-N-1-D 300.0307133	Service packages Cindy 16-B-P-V-1-D 300.0307139	Service packages Cindy 16-B-P-T-1-D 300.0307145

9. Description Cindy-16-B-P.-.....A-.....SVA...

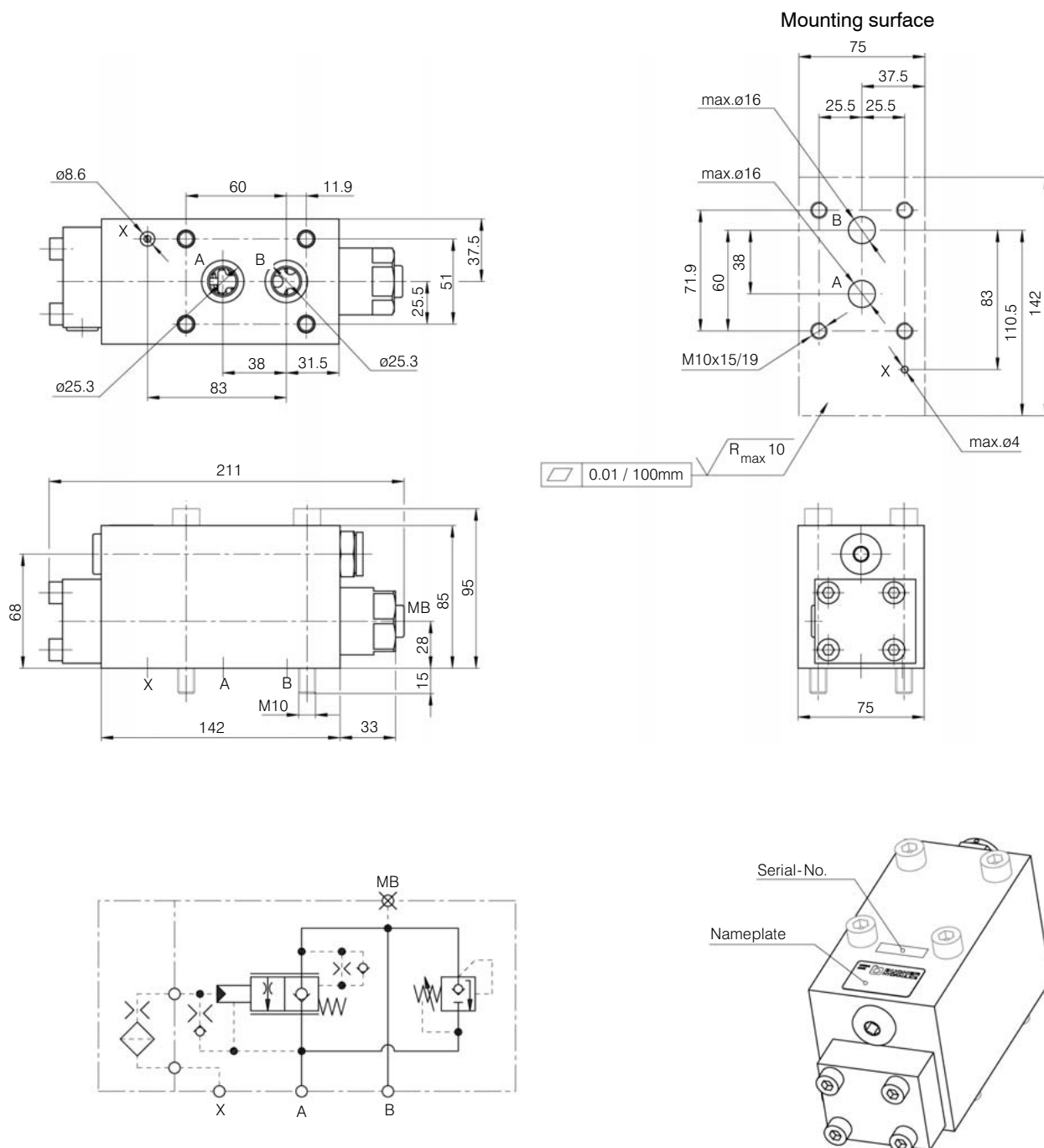
9.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 16$	2.62x20.29
B	max. $\varnothing 16$	2.62x20.29
X	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

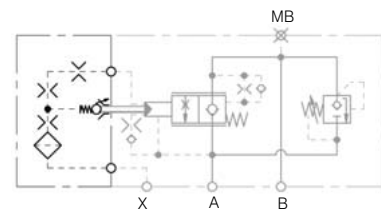
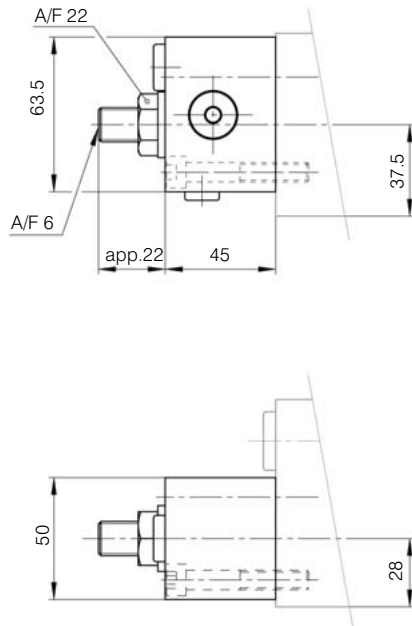
Weight: approx. 6.9 kg

9.2 Standard model

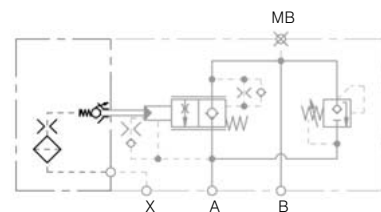
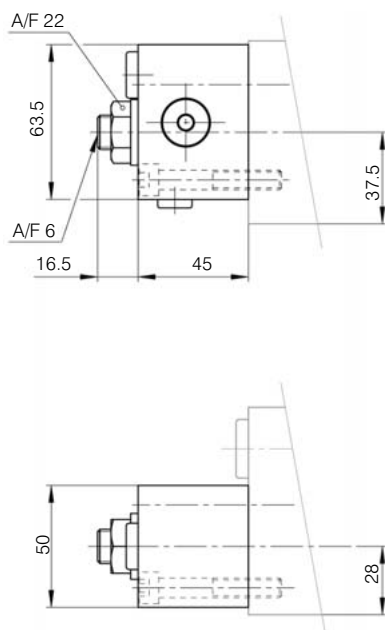


9.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the “damping cover” (D)

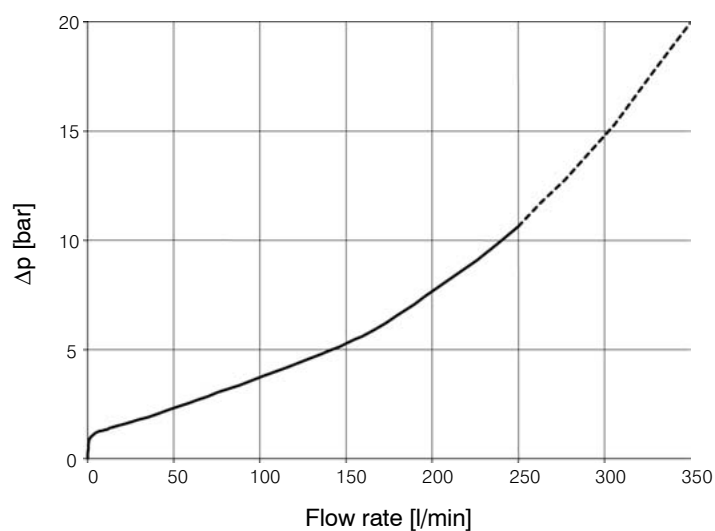


Pilot-control with the “hydro-mechanical stroke limiter” (H)

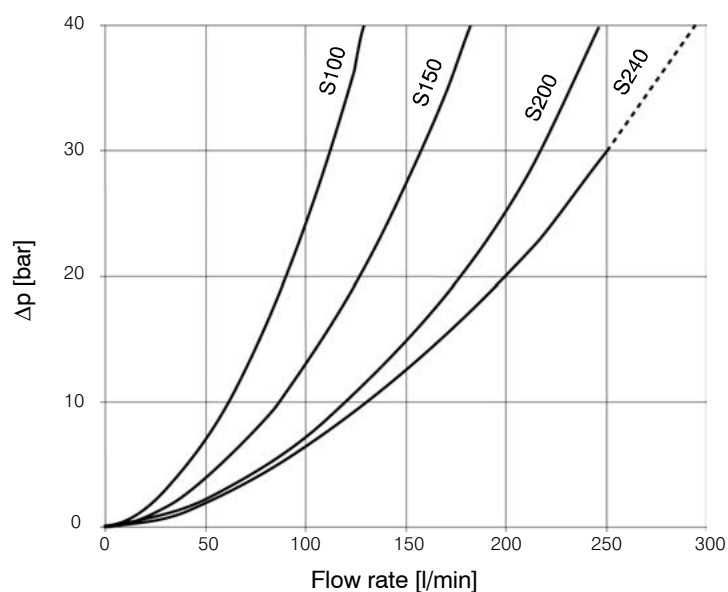


9.4 Characteristic curves (measured at 33 mm²/s [cSt])

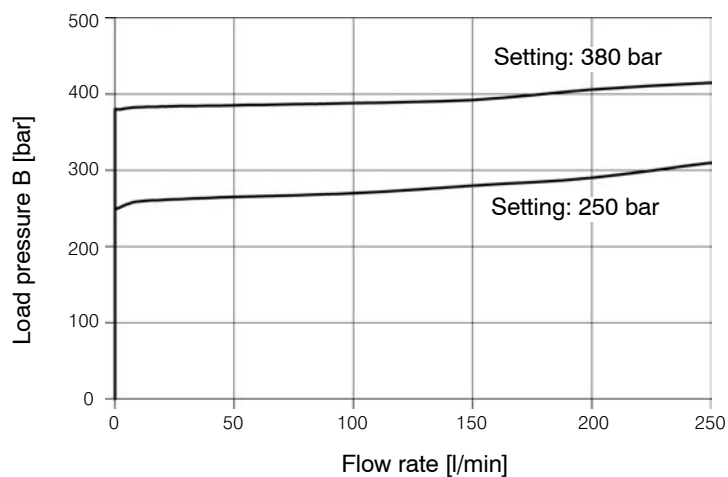
9.4.1 Δp from A $\rightarrow$ B (Lifting)



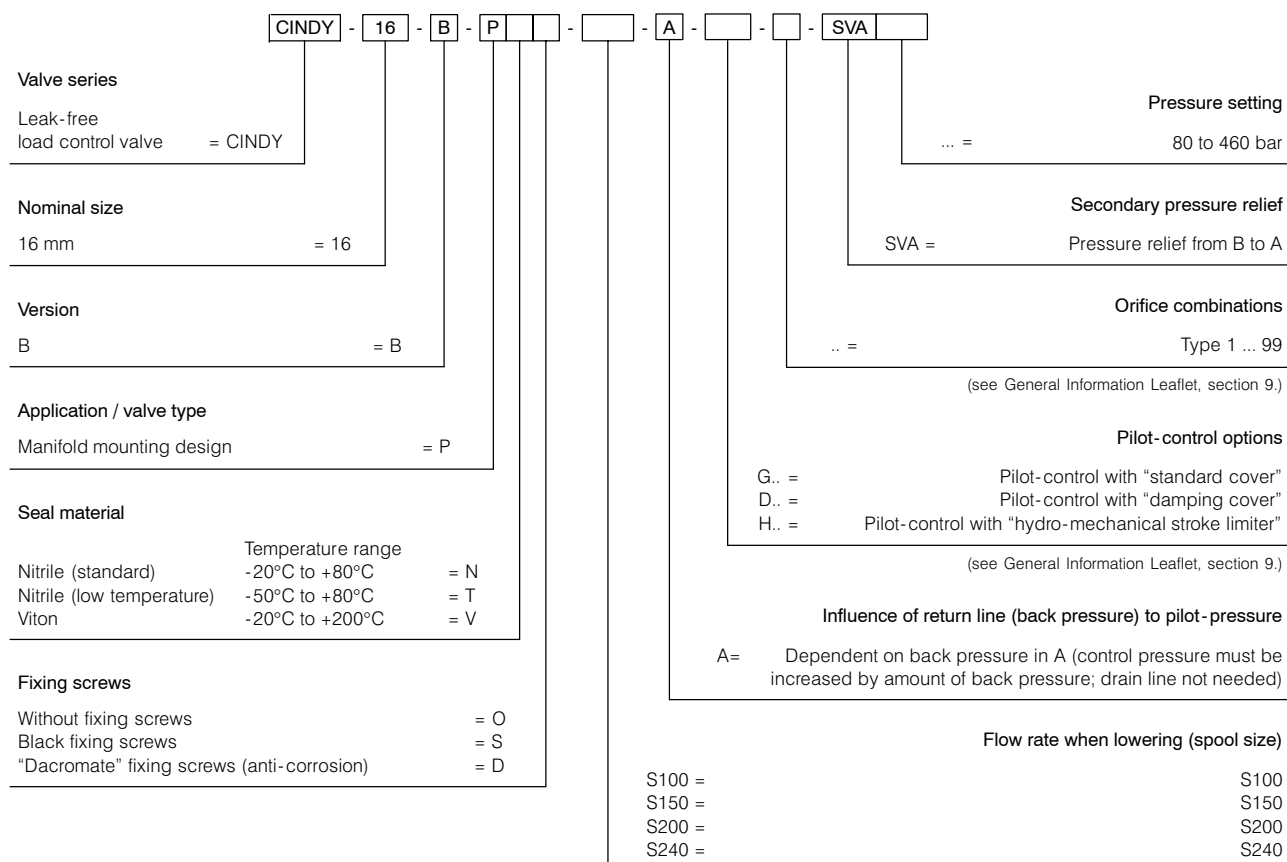
9.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



9.4.3 Opening characteristic of the secondary pressure relief valve



9.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010843.....	300 6010848.....	300 6010853.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-P-N-2-G 300.0307134	Service packages Cindy 16-B-P-V-2-G 300.0307140	Service packages Cindy 16-B-P-T-2-G 300.0307146
Pilot-control types D, H Art. No.	Service packages Cindy 16-B-P-N-2-D 300.0307135	Service packages Cindy 16-B-P-V-2-D 300.0307141	Service packages Cindy 16-B-P-T-2-D 300.0307147

10. Description Cindy-16-B-P.-.....-L-...-SVA...

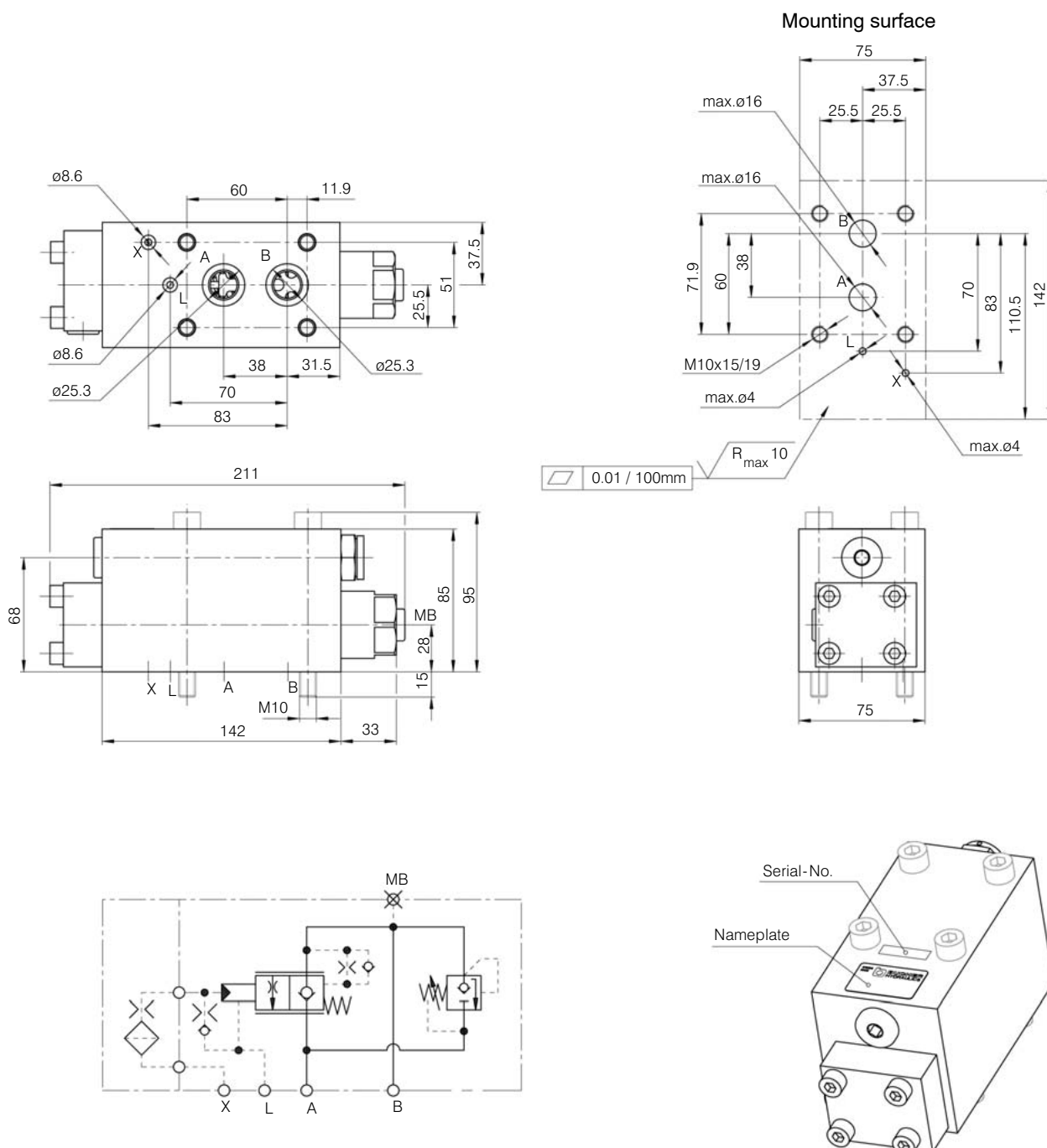
10.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 16$	2.62x20.29
B	max. $\varnothing 16$	2.62x20.29
X, L	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

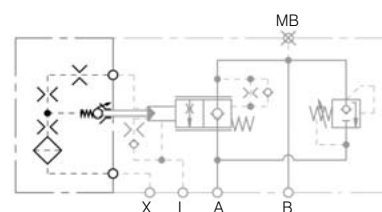
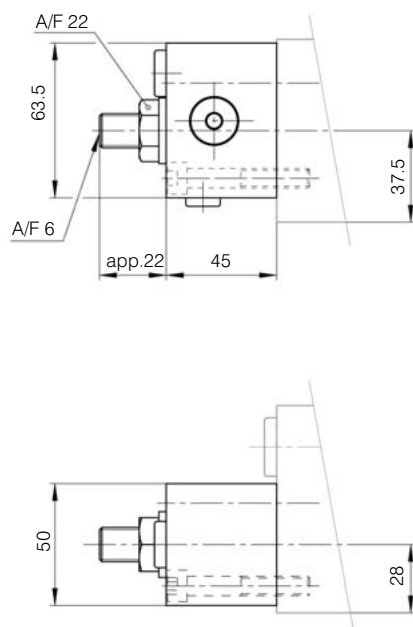
Weight: approx. 6.9 kg

10.2 Standard model

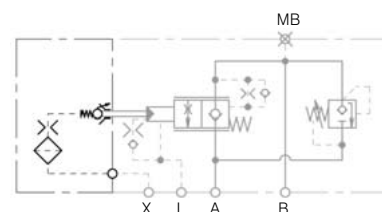
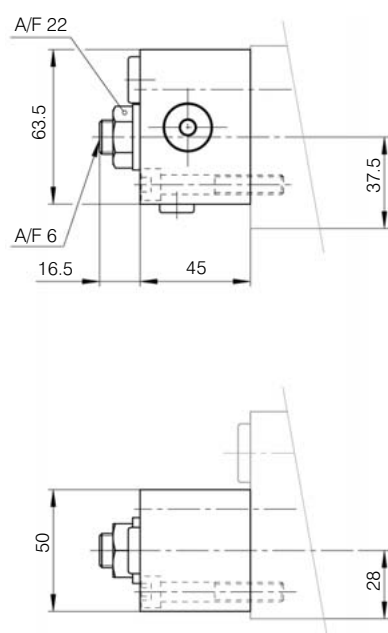


10.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the “damping cover” (D)

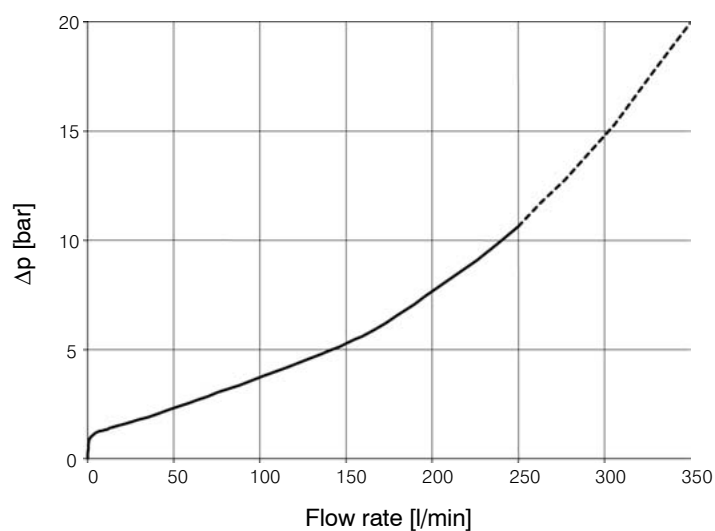


Pilot-control with the “hydro-mechanical stroke limiter” (H)

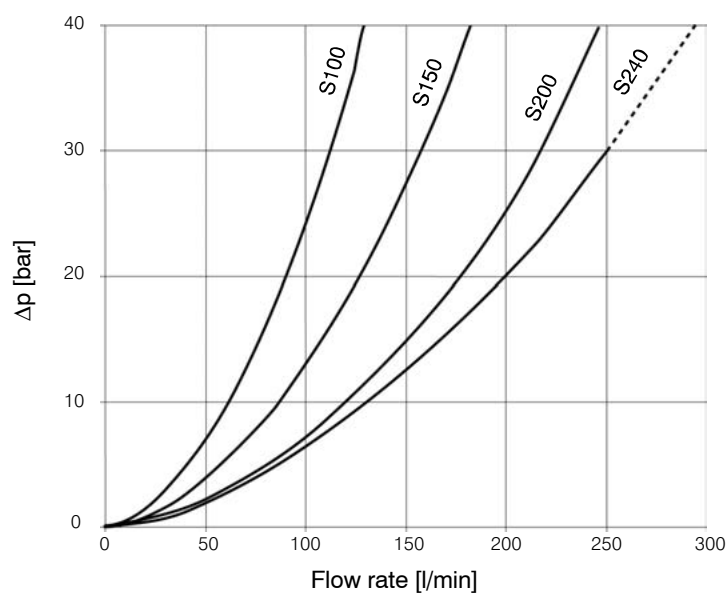


10.4 Characteristic curves (measured at 33 mm²/s [cSt])

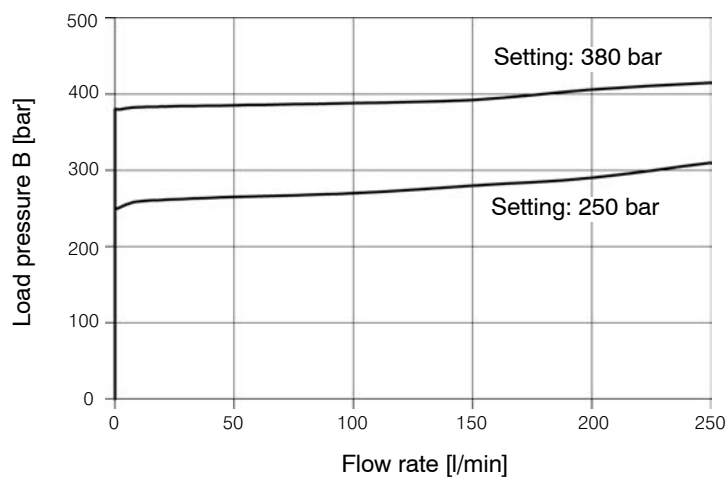
10.4.1 Δp from A $\rightarrow$ B (Lifting)



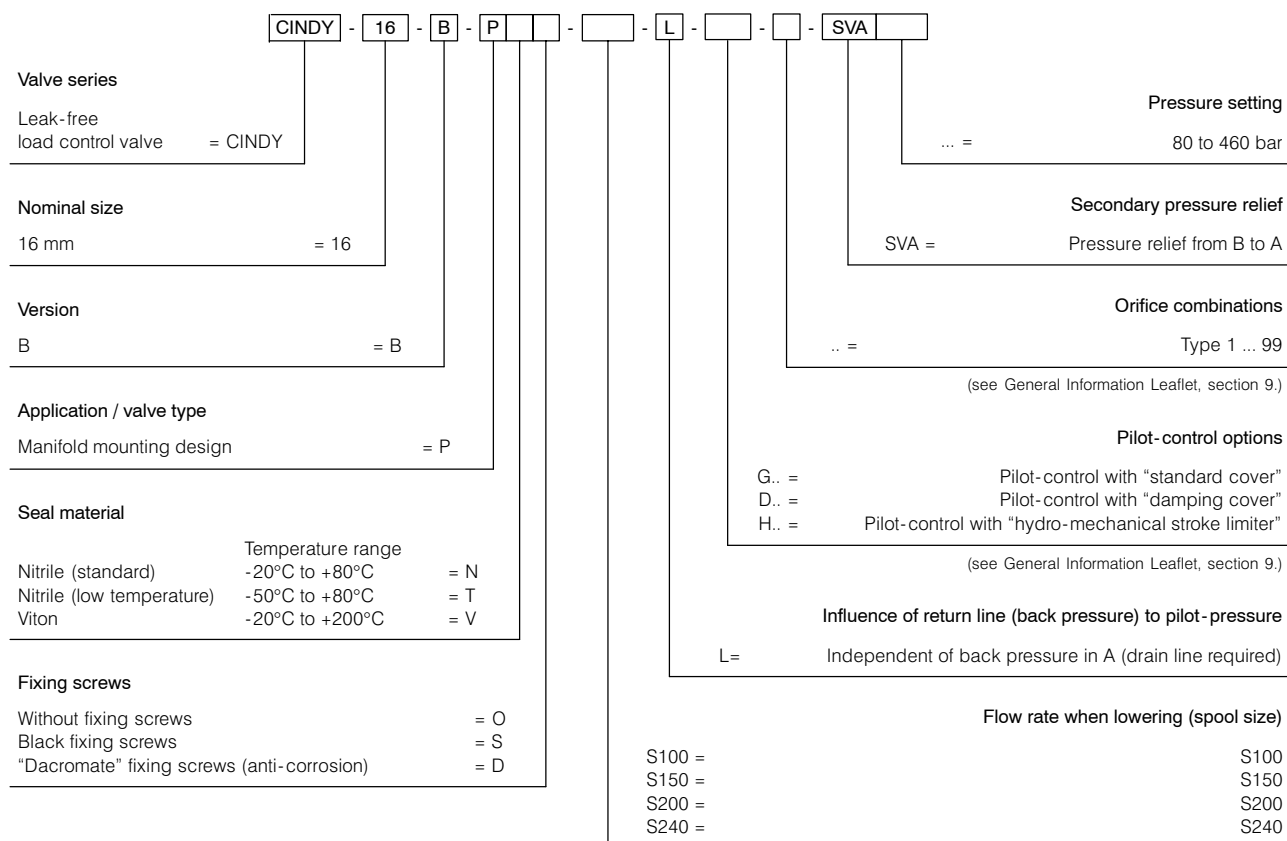
10.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



10.4.3 Opening characteristic of the secondary pressure relief valve



10.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010844.....	300 6010849.....	300 6010854.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-P-N-2-G 300.0307134	Service packages Cindy 16-B-P-V-2-G 300.0307140	Service packages Cindy 16-B-P-T-2-G 300.0307146
Pilot-control types D, H Art. No.	Service packages Cindy 16-B-P-N-2-D 300.0307135	Service packages Cindy 16-B-P-V-2-D 300.0307141	Service packages Cindy 16-B-P-T-2-D 300.0307147

11. Description Cindy-16-B-P.-...-L-...-SVT...

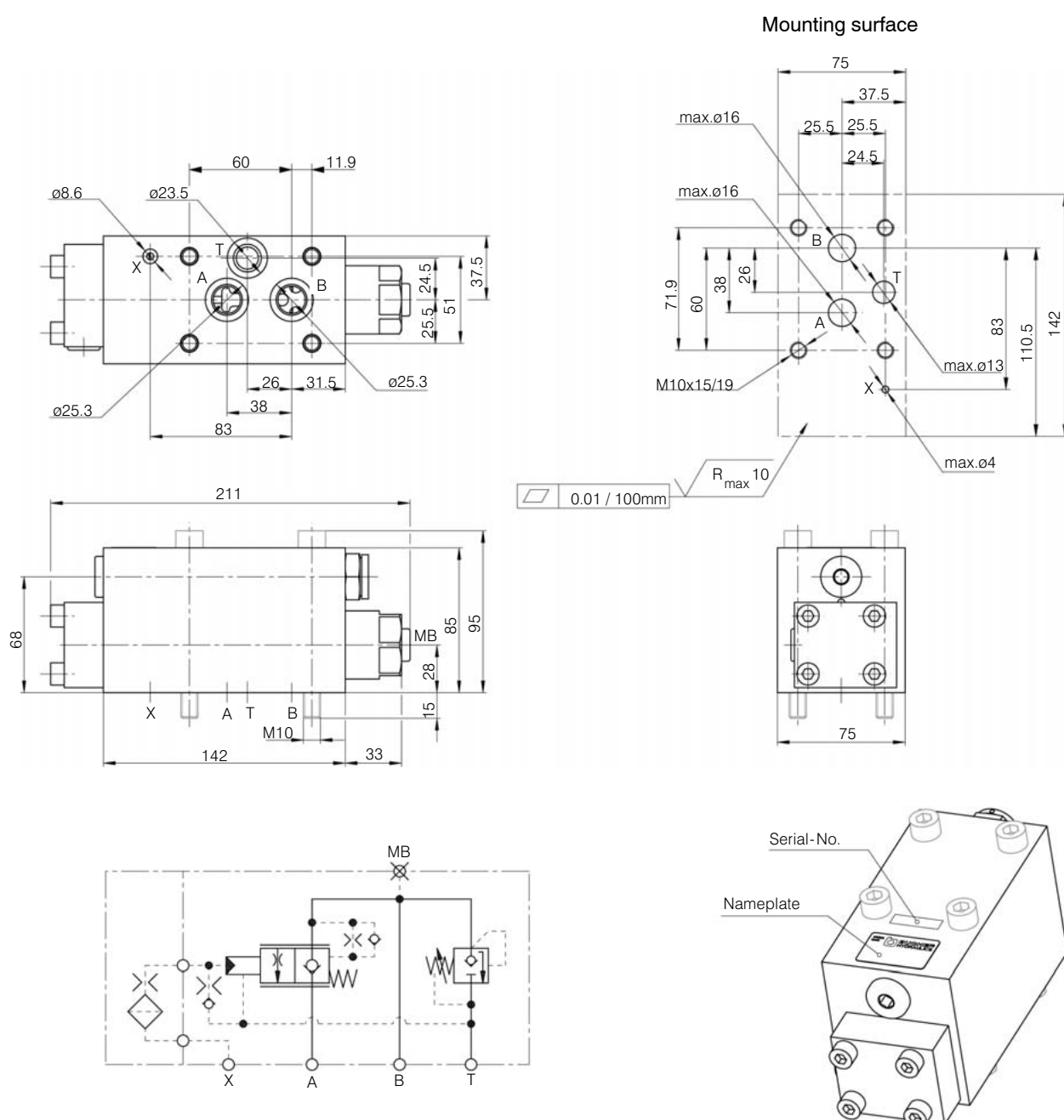
11.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 16$	2.62x20.29
B	max. $\varnothing 16$	2.62x20.29
T	max. $\varnothing 13$	2.62x18.72
X	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

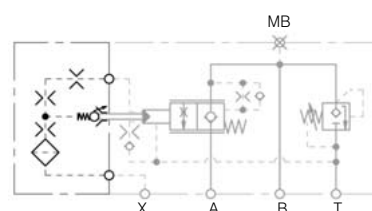
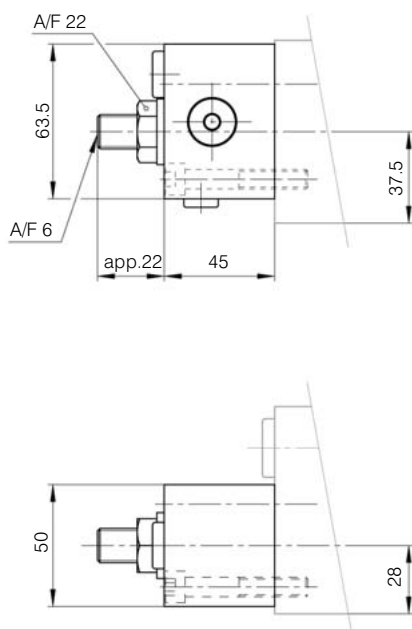
Weight: approx. 6.8 kg

11.2 Standard model

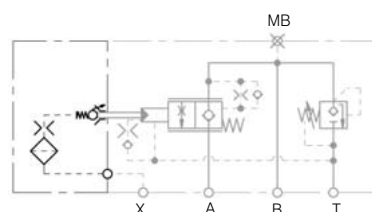
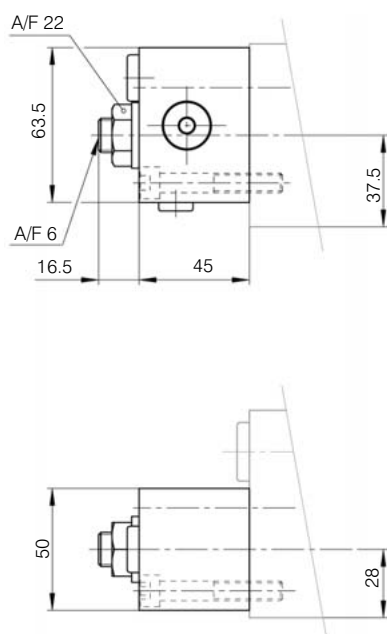


11.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the “damping cover” (D)

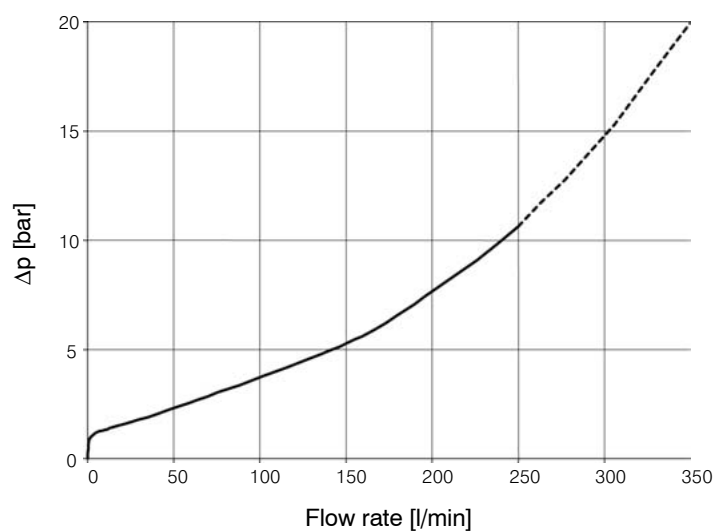


Pilot-control with the “hydro-mechanical stroke limiter” (H)

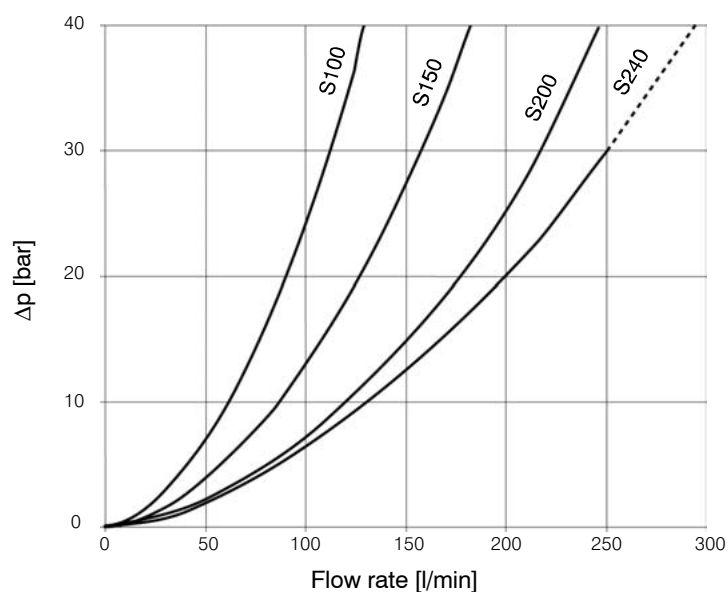


11.4 Characteristic curves (measured at 33 mm²/s [cSt])

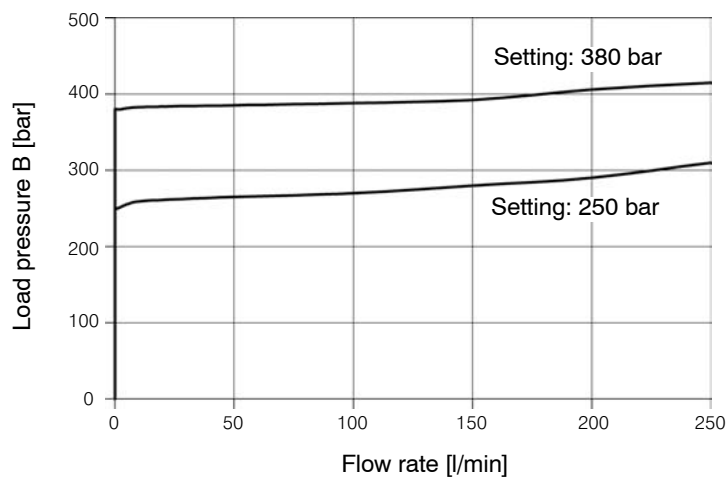
11.4.1 Δp from A $\rightarrow$ B (Lifting)



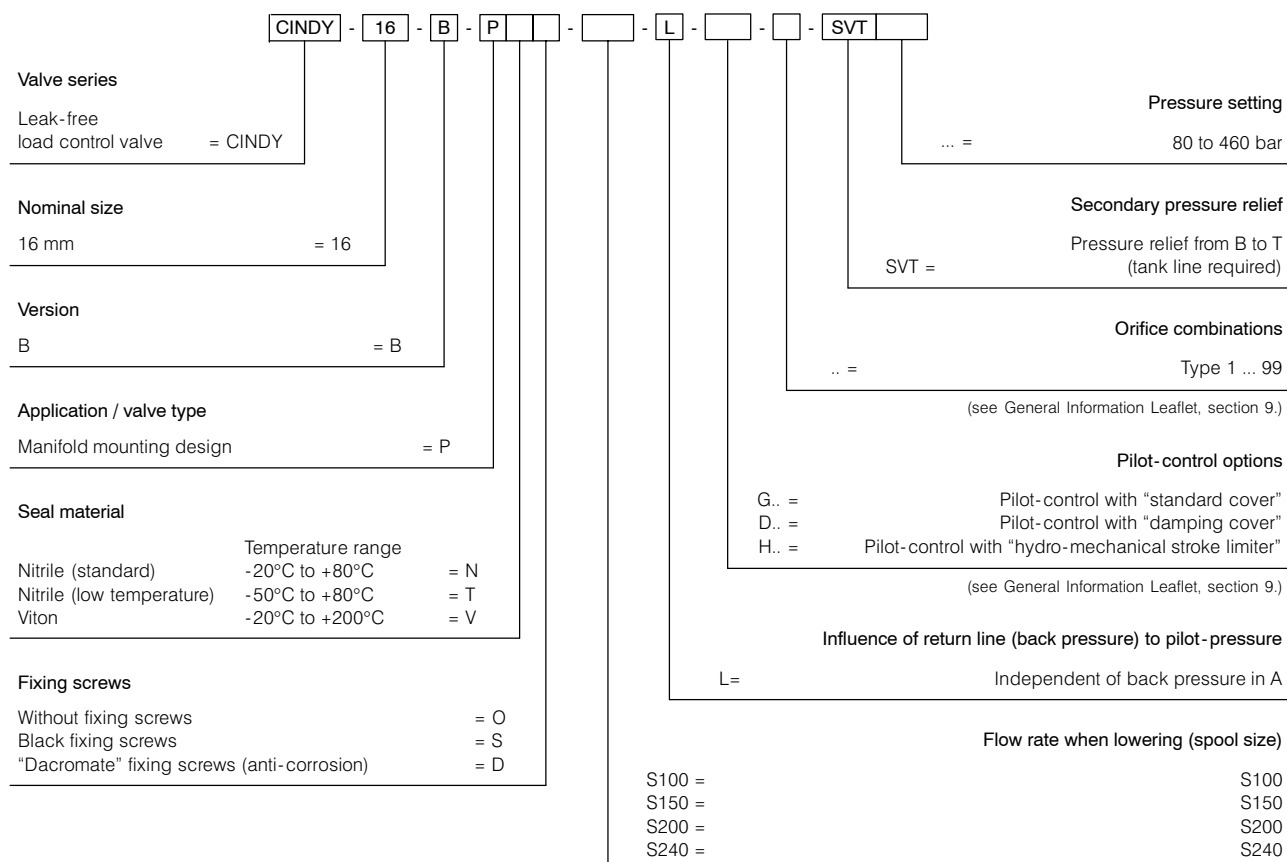
11.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



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 6010845.....	300 6010850.....	300 6010855.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 16-B-P-N-3-G 300.0307136	Service packages Cindy 16-B-P-V-3-G 300.0307142	Service packages Cindy 16-B-P-T-3-G 300.0307148
Pilot-control types D, H Art. No.	Service packages Cindy 16-B-P-N-3-D 300.0307137	Service packages Cindy 16-B-P-V-3-D 300.0307143	Service packages Cindy 16-B-P-T-3-D 300.0307149

12. Description Cindy-20-B-P.-.....-A-.....

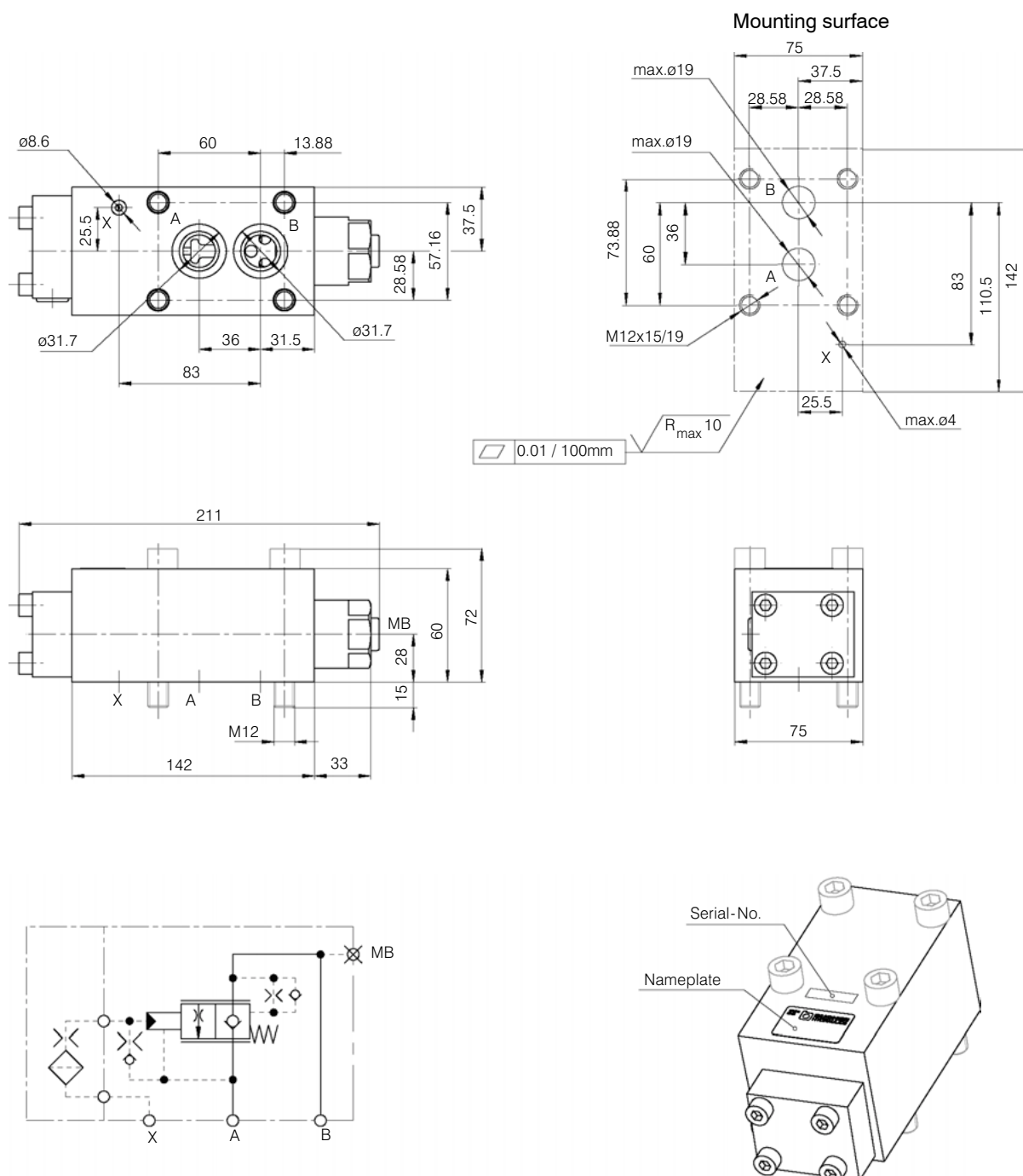
12.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 19$	3.53x24.99
B	max. $\varnothing 19$	3.53x24.99
X	max. $\varnothing 4$	1.78x5.28
MB	max. G 1/4"	-

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

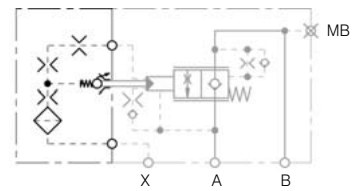
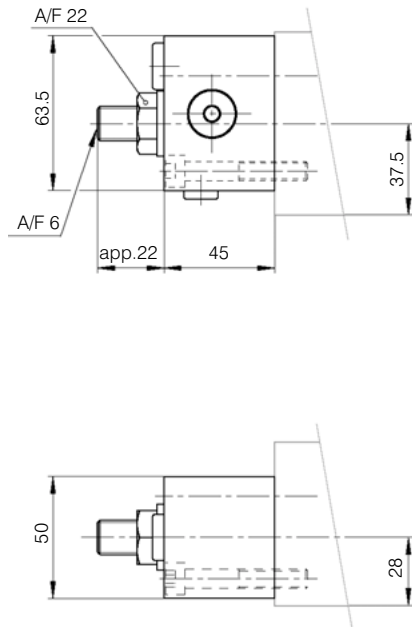
Weight: approx. 5.0 kg

12.2 Standard model

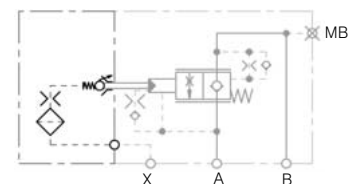
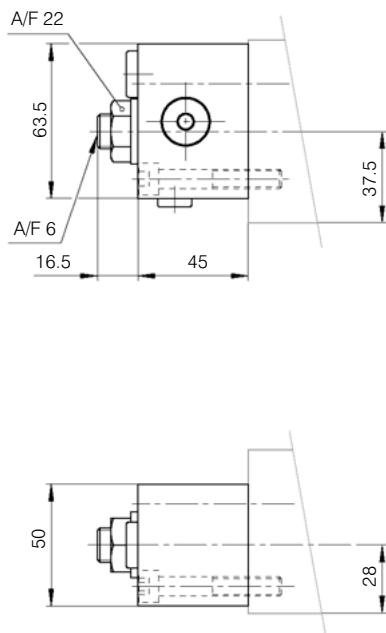


12.3 Pilot-control variants (each can be rotated through 180°)

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

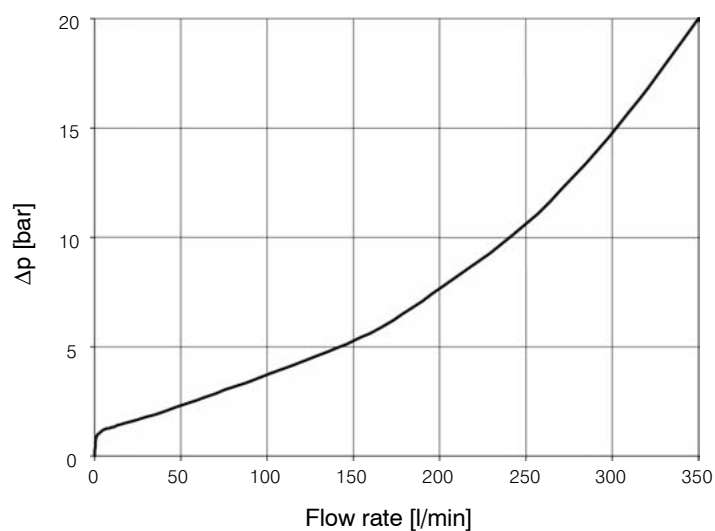


Pilot-control with the "hydro-mechanical stroke limiter" (H)

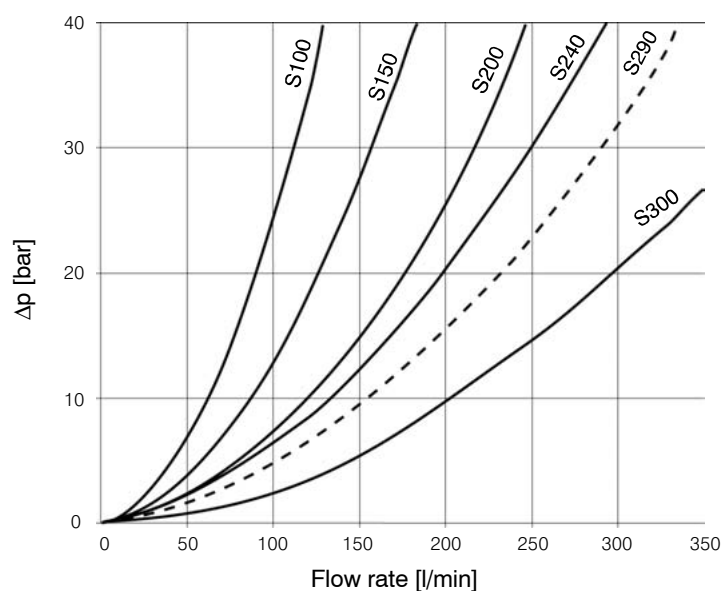


12.4 Characteristic curves (measured at 33 mm²/s [cSt])

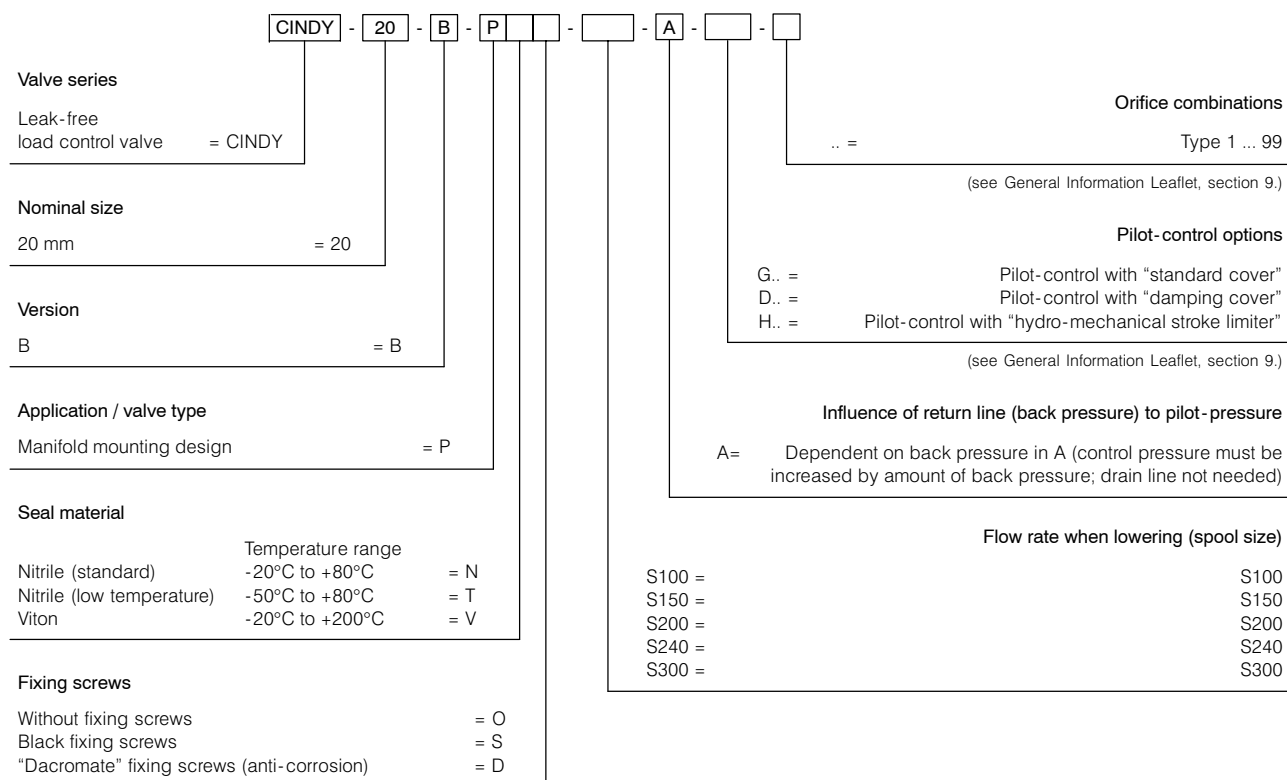
12.4.1 Δp from A $\rightarrow$ B (Lifting)



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



12.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010234.....	300 6010302.....	300 6010348.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-P-N-1-G 300.0306975	Service packages Cindy 20-B-P-V-1-G 300.0306981	Service packages Cindy 20-B-P-T-1-G 300.0306987
Pilot-control types D, H Art. No.	Service packages Cindy 20-B-P-N-1-D 300.0306976	Service packages Cindy 20-B-P-V-1-D 300.0306982	Service packages Cindy 20-B-P-T-1-D 300.0306988

13. Description Cindy-20-B-P.-.....-L-.....

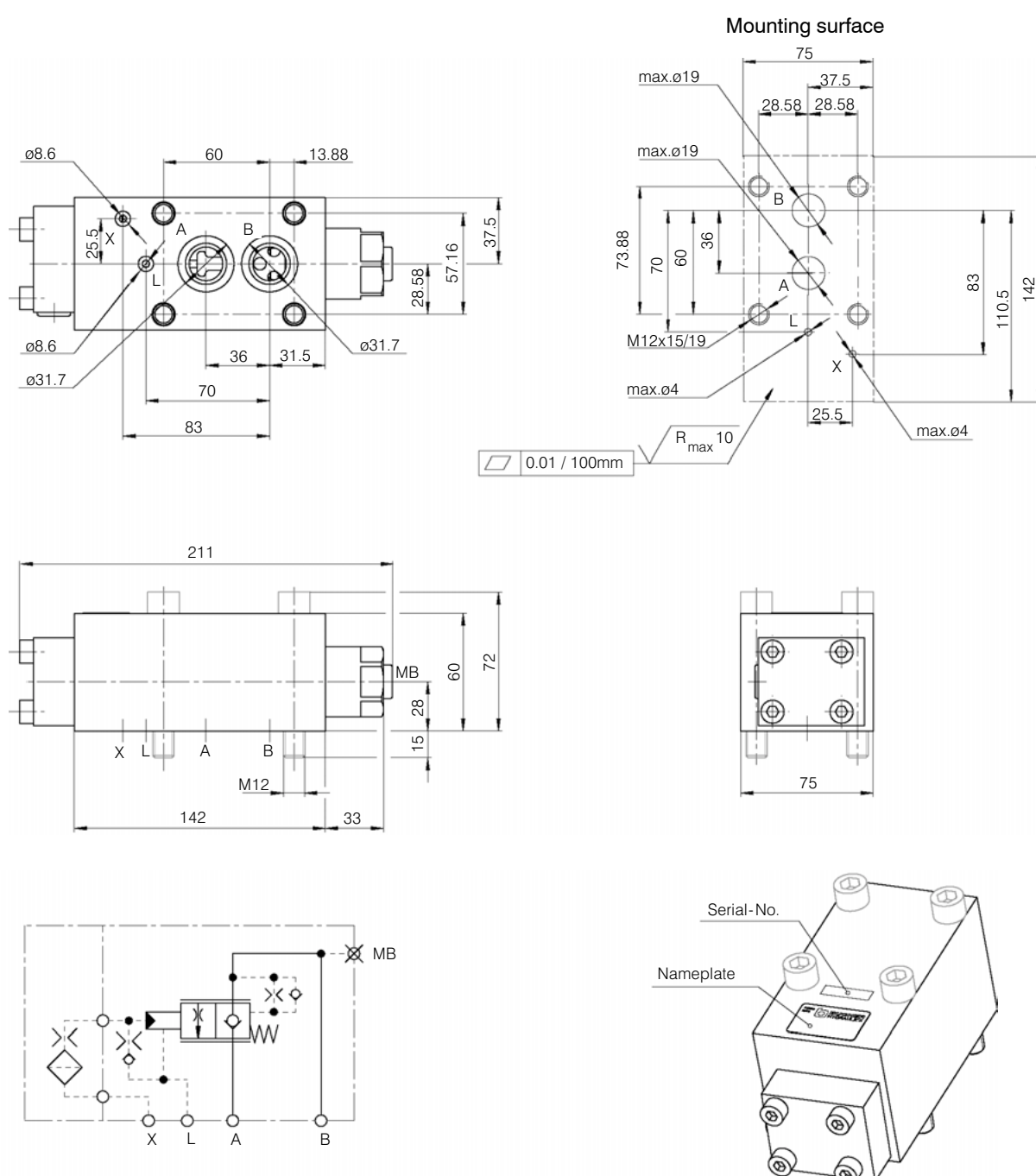
13.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 19$	3.53x24.99
B	max. $\varnothing 19$	3.53x24.99
X, L	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

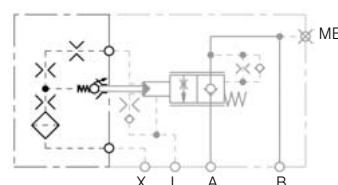
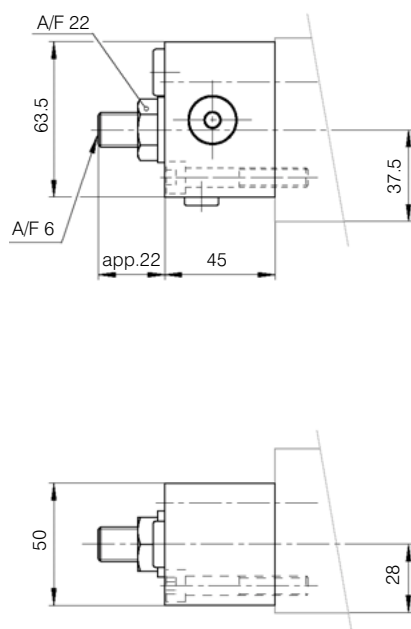
Weight: approx. 5.0 kg

13.2 Standard model

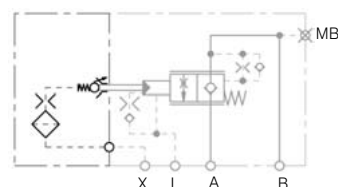
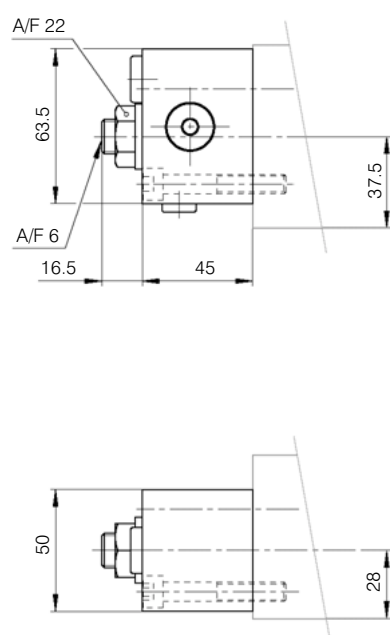


13.3 Pilot-control variants (each can be rotated through 180°)

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

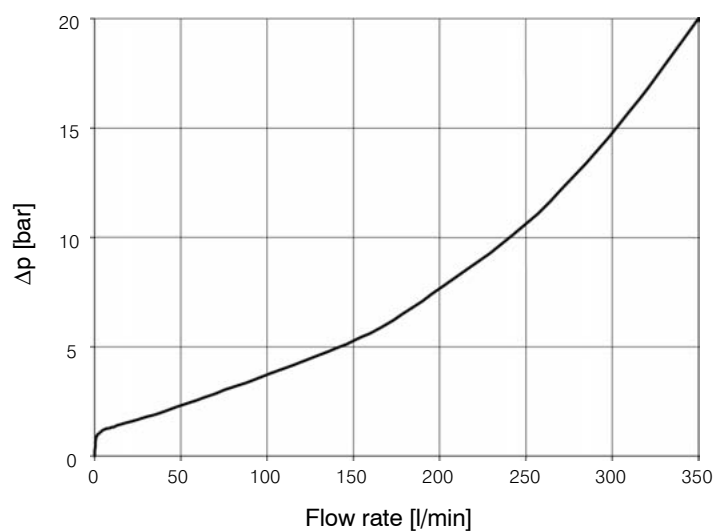


Pilot-control with the "hydro-mechanical stroke limiter" (H)

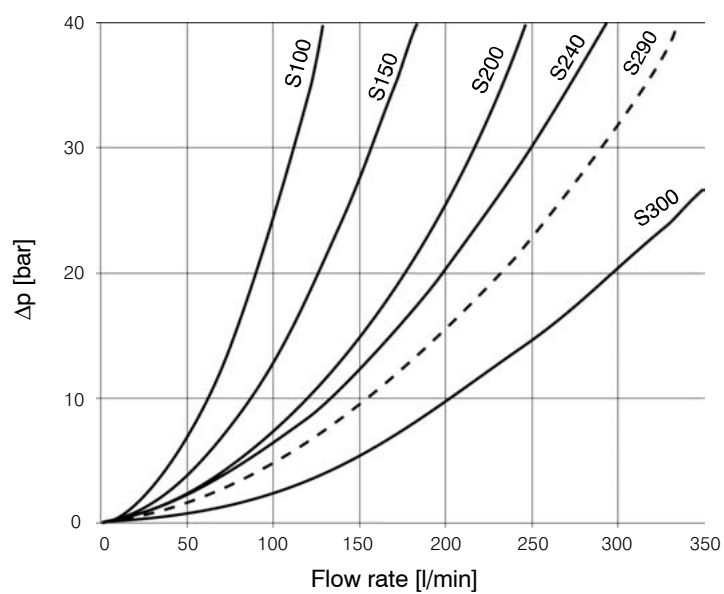


13.4 Characteristic curves (measured at 33 mm²/s [cSt])

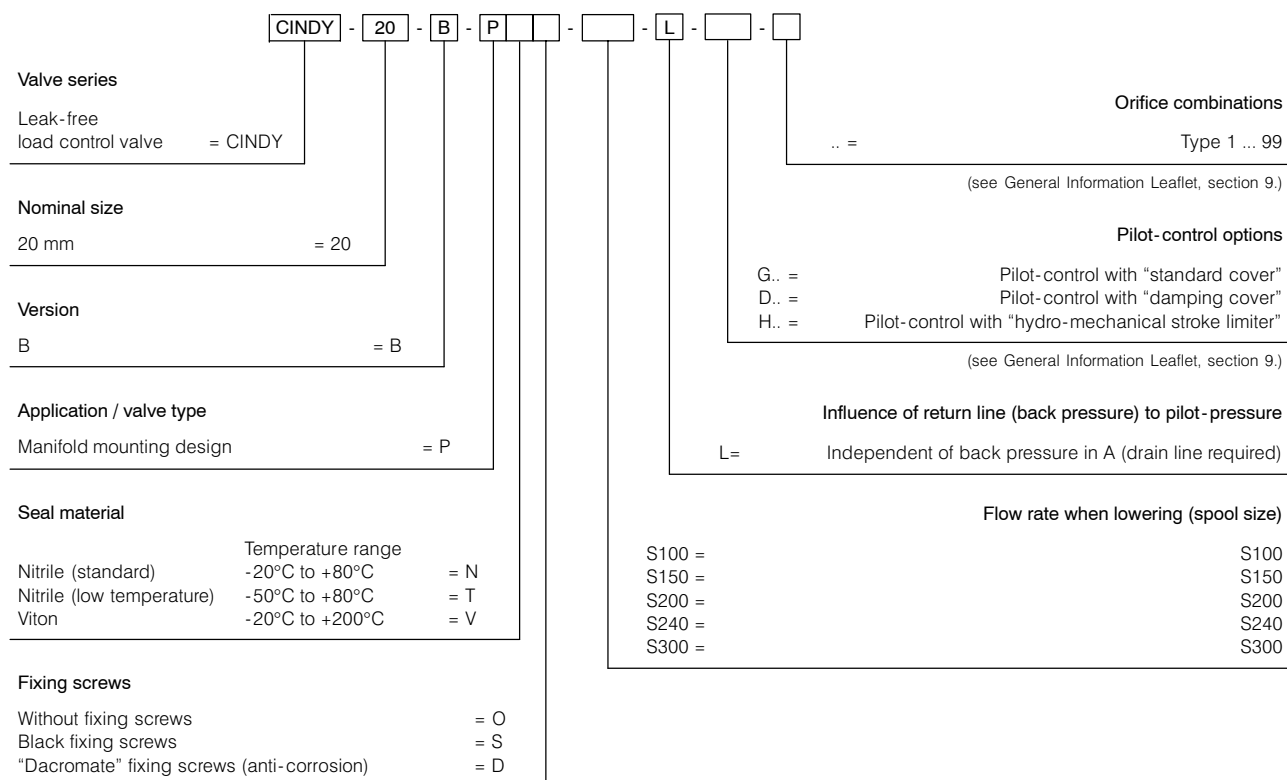
13.4.1 Δp from A $\rightarrow$ B (Lifting)



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



13.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010235.....	300 6010303.....	300 6010349.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-P-N-1-G 300.0306975	Service packages Cindy 20-B-P-V-1-G 300.0306981	Service packages Cindy 20-B-P-T-1-G 300.0306987
Pilot-control types D, H Art. No.	Service packages Cindy 20-B-P-N-1-D 300.0306976	Service packages Cindy 20-B-P-V-1-D 300.0306982	Service packages Cindy 20-B-P-T-1-D 300.0306988

14. Description Cindy-20-B-P.-....-A-....-SVA...

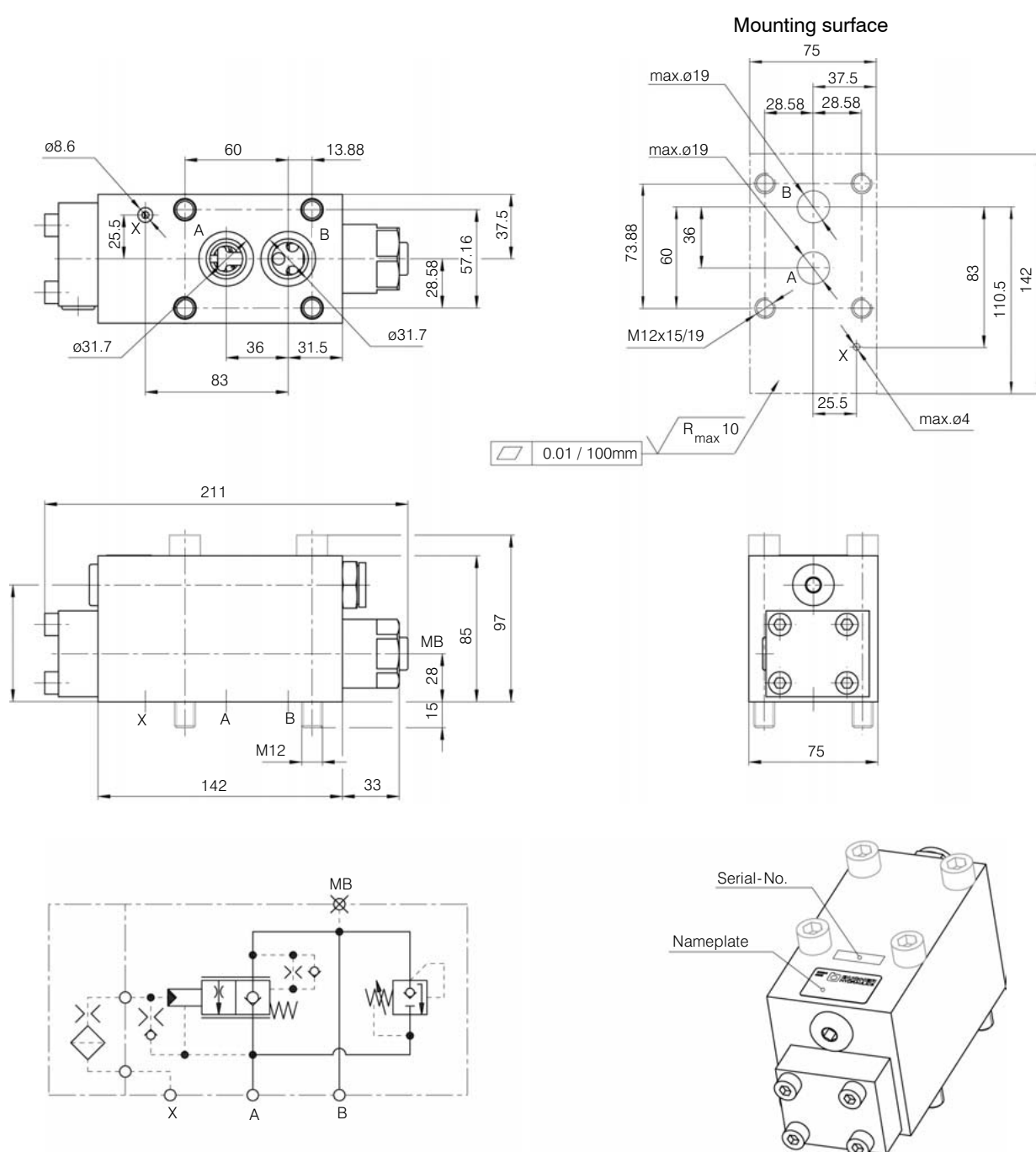
14.1 Port sizes / weight

Port	Port Size	O-Ring
A	max. $\varnothing 19$	3.53x24.99
B	max. $\varnothing 19$	3.53x24.99
X	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

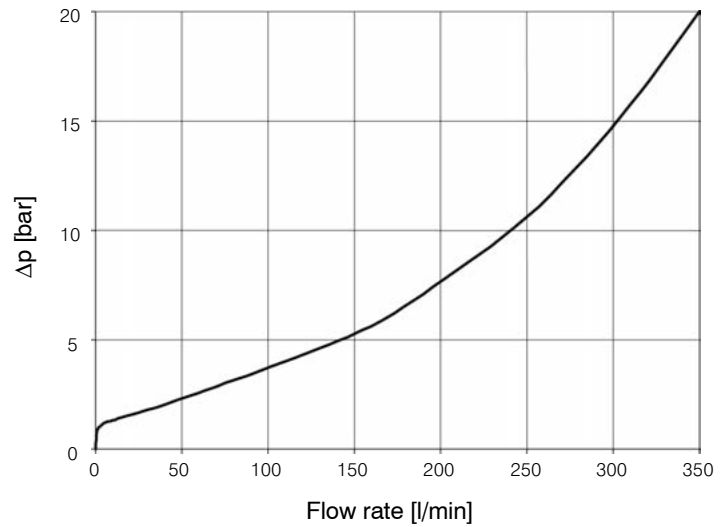
Weight: approx. 6.9 kg

14.2 Standard model

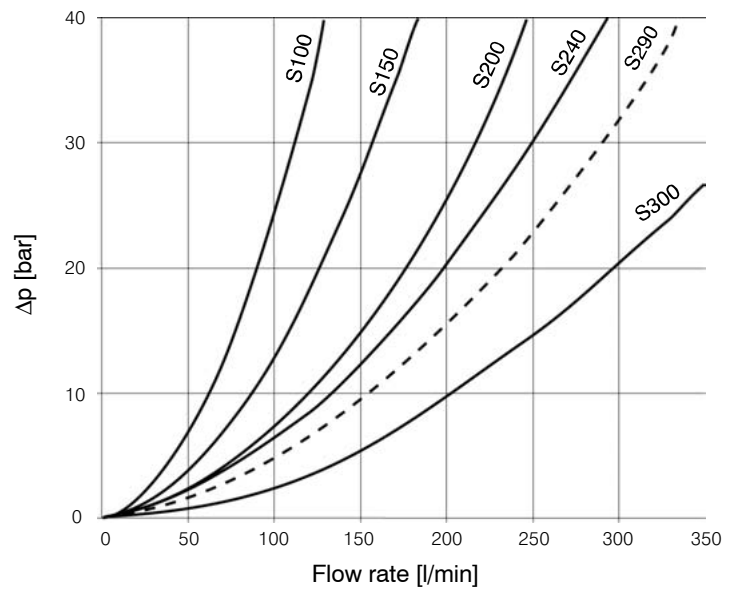


14.4 Characteristic curves (measured at 33 mm²/s [cSt])

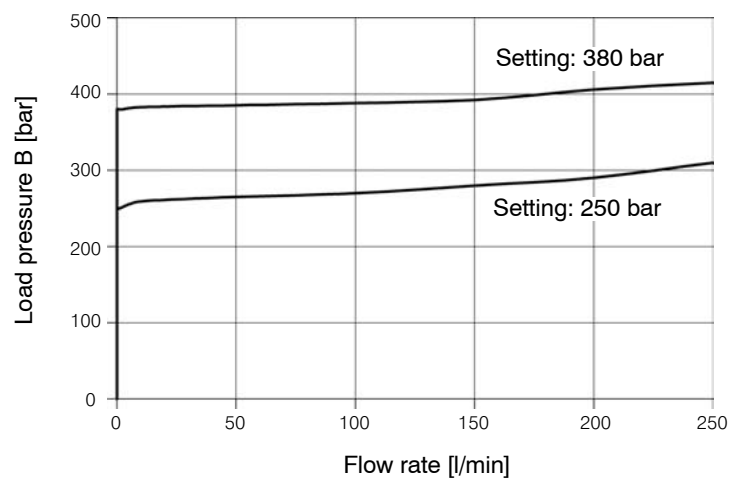
14.4.1 Δp from A $\rightarrow$ B (Lifting)



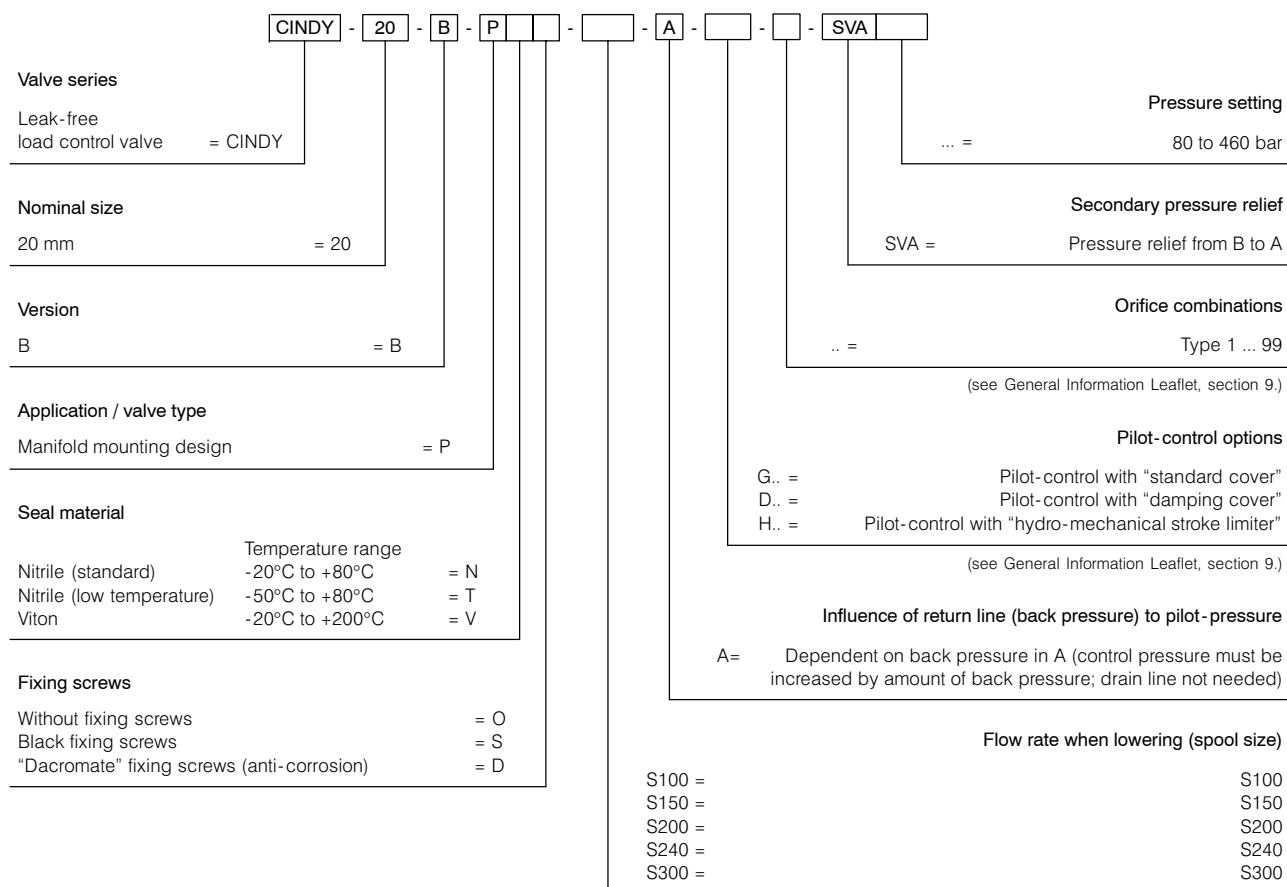
14.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



14.4.3 Opening characteristic of the secondary pressure relief valve



14.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010236.....	300 6010304.....	300 6010350.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-P-N-2-G 300.0306977	Service packages Cindy 20-B-P-V-2-G 300.0306983	Service packages Cindy 20-B-P-T-2-G 300.0306989
Pilot-control types D, H Art. No.	Service packages Cindy 20-B-P-N-2-D 300.0306978	Service packages Cindy 20-B-P-V-2-D 300.0306984	Service packages Cindy 20-B-P-T-2-D 300.0306990

15. Description Cindy-20-B-P.-.....-L-.....-SVA...

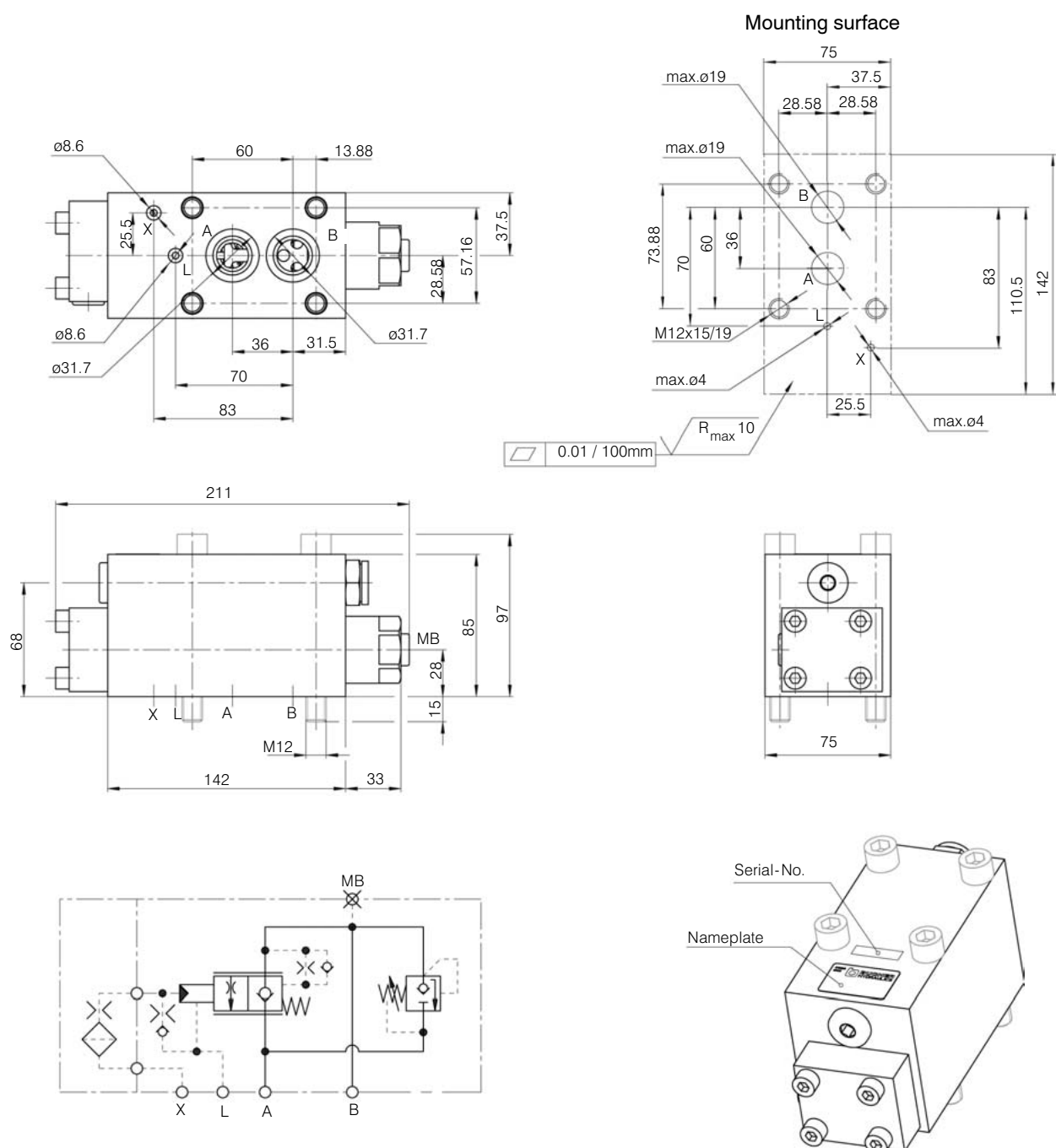
15.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 19$	3.53x24.99
B	max. $\varnothing 19$	3.53x24.99
X, L	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

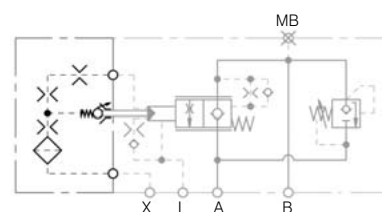
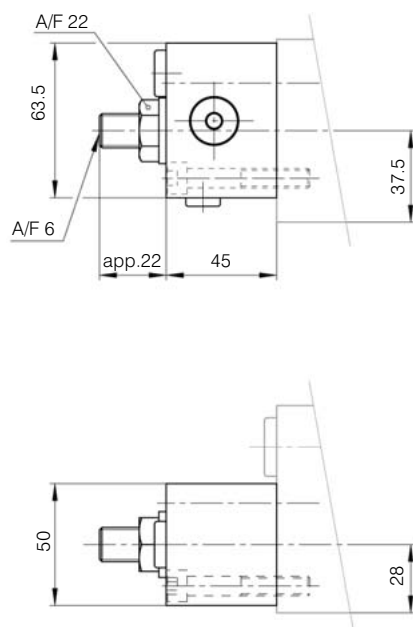
Weight: approx. 6.9 kg

15.2 Standard model

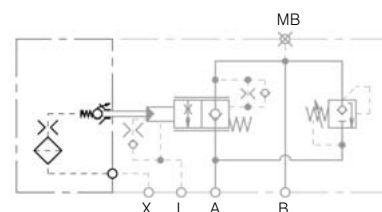
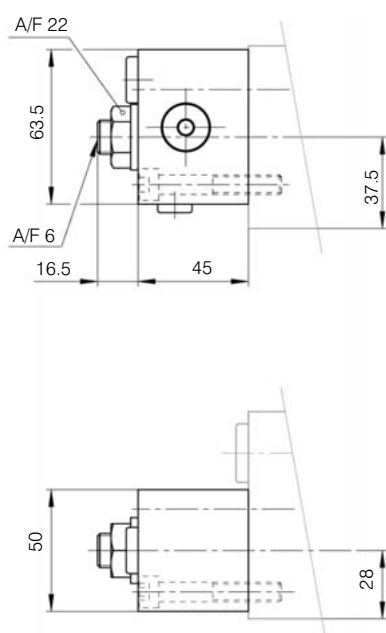


15.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the “damping cover” (D)

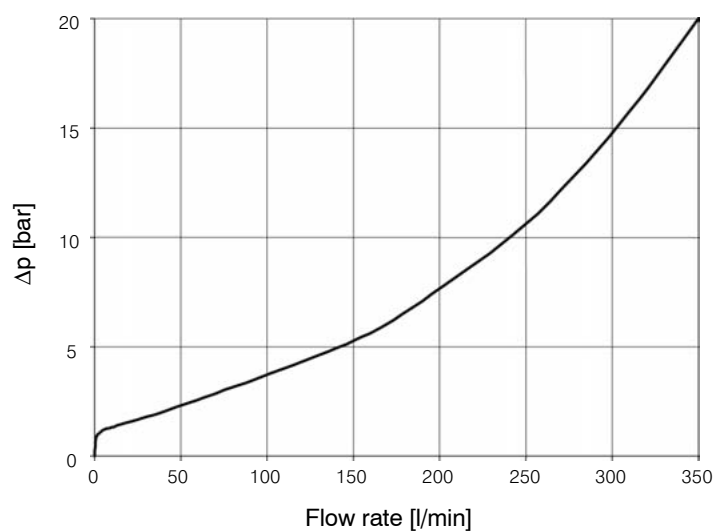


Pilot-control with the “hydro-mechanical stroke limiter” (H)

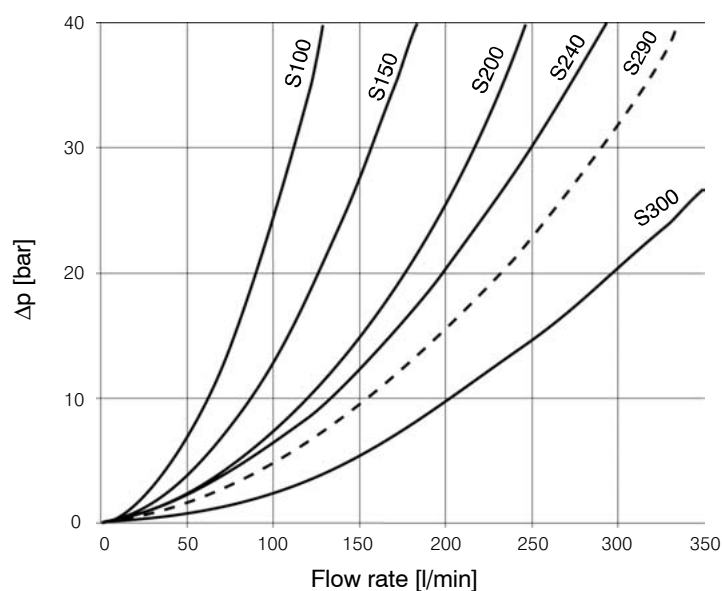


15.4 Characteristic curves (measured at 33 mm²/s [cSt])

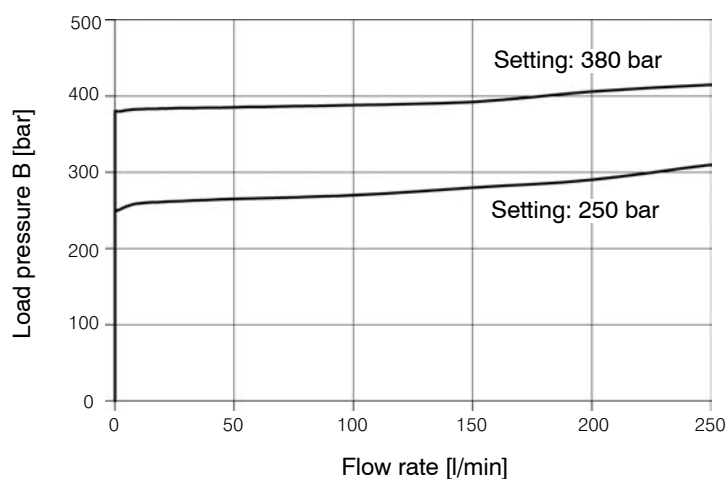
15.4.1 Δp from A $\rightarrow$ B (Lifting)



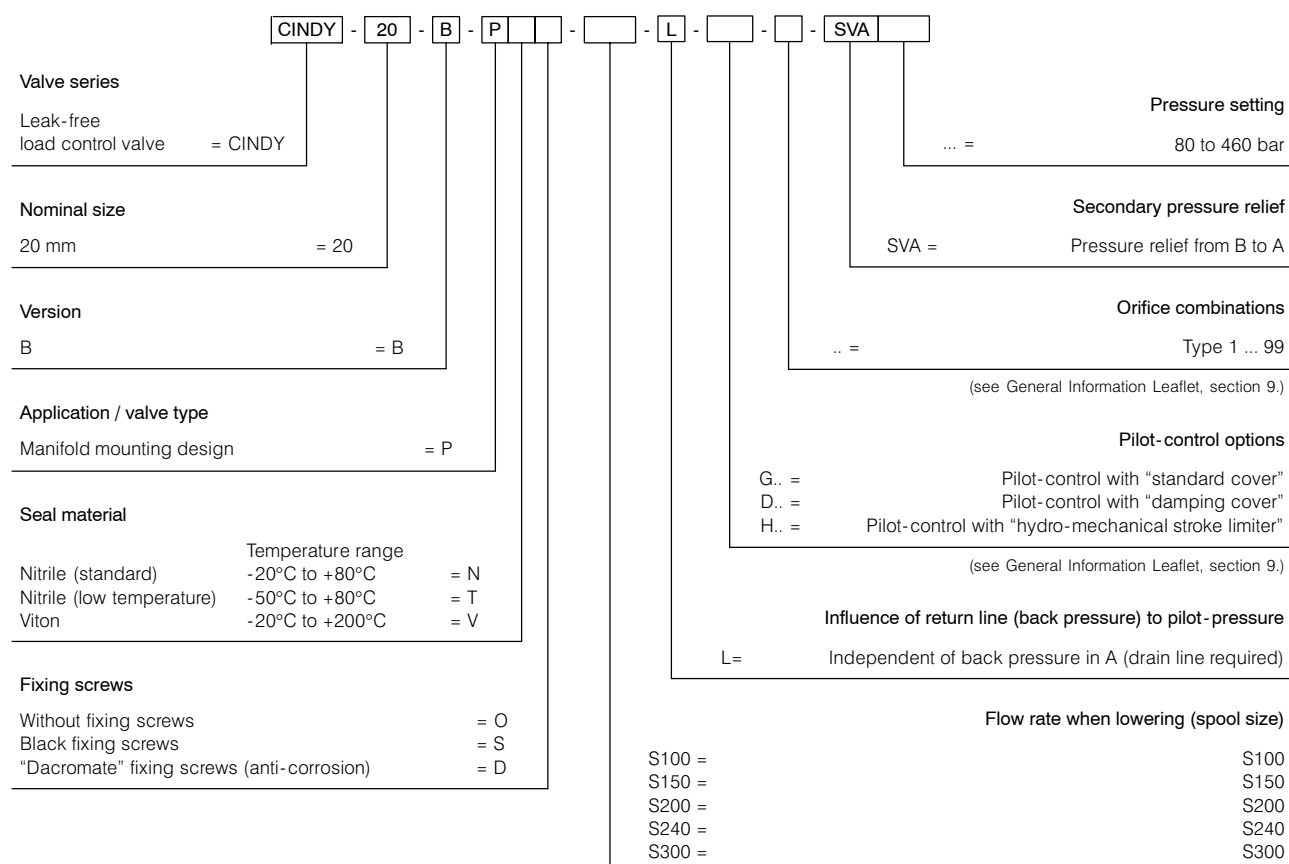
15.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



15.4.3 Opening characteristic of the secondary pressure relief valve



15.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010237.....	300 6010305.....	300 6010351.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-P-N-2-G 300.0306977	Service packages Cindy 20-B-P-V-2-G 300.0306983	Service packages Cindy 20-B-P-T-2-G 300.0306989
Pilot-control types D, H Art. No.	Service packages Cindy 20-B-P-N-2-D 300.0306978	Service packages Cindy 20-B-P-V-2-D 300.0306984	Service packages Cindy 20-B-P-T-2-D 300.0306990

16. Description Cindy-20-B-P.-....-L-....-SVT...

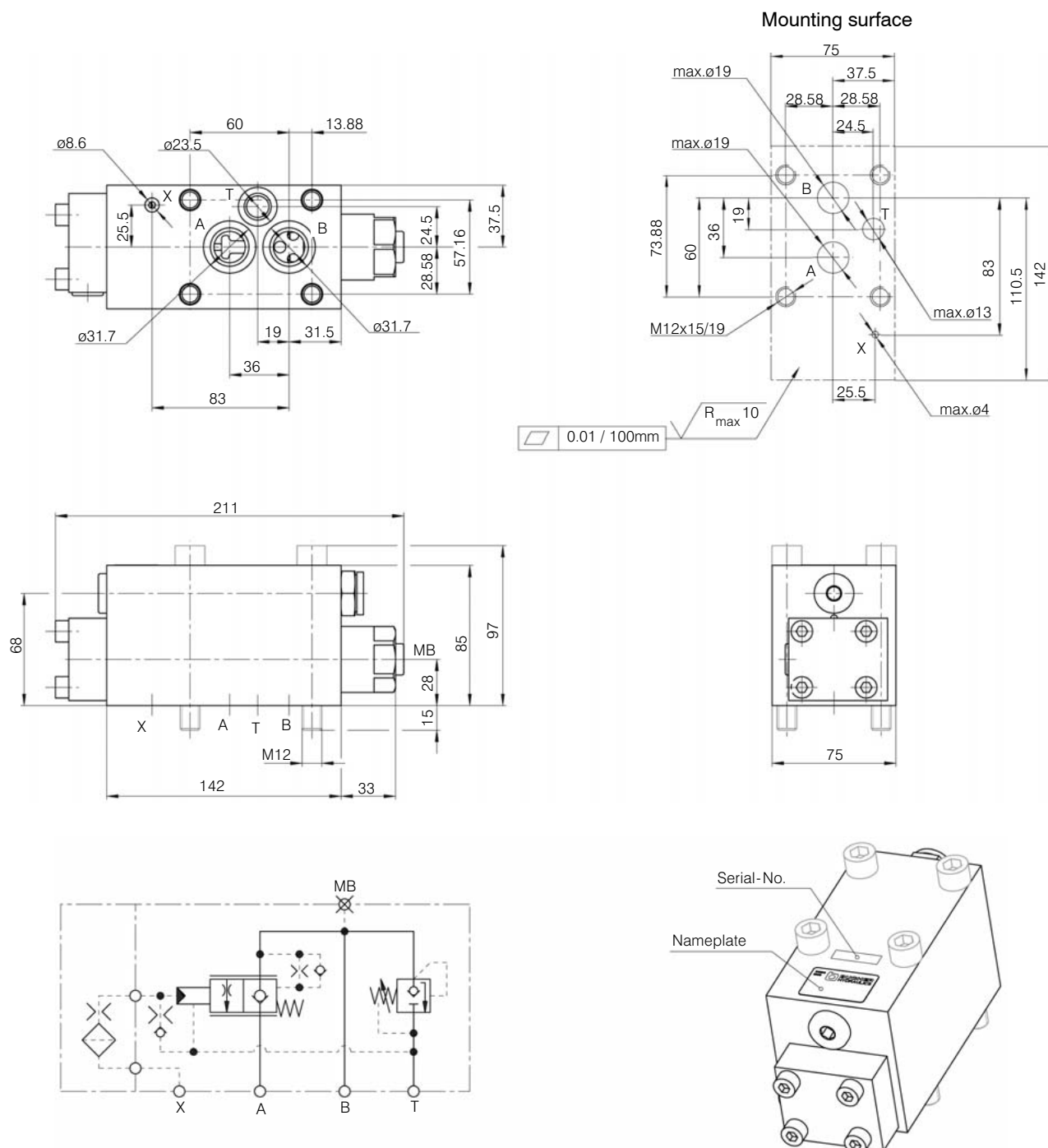
16.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 19$	3.53x24.99
B	max. $\varnothing 19$	3.53x24.99
T	max. $\varnothing 13$	2.62x18.72
X	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

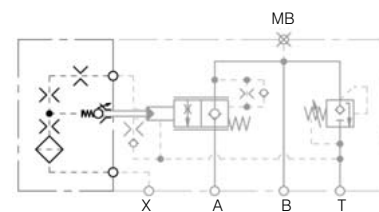
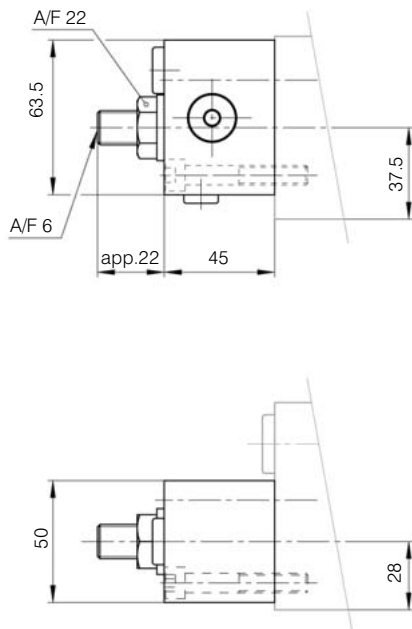
Weight: approx. 6.8 kg

16.2 Standard model

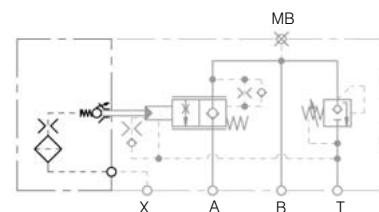
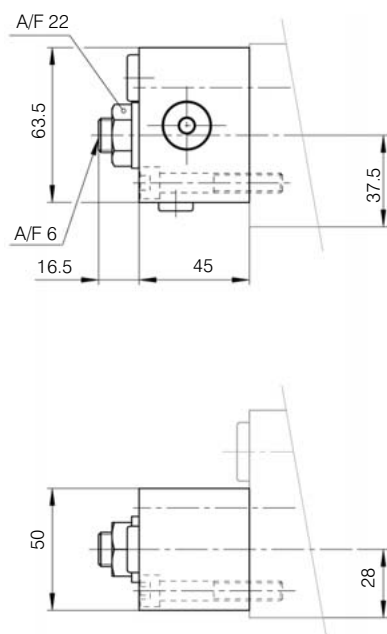


16.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the “damping cover” (D)

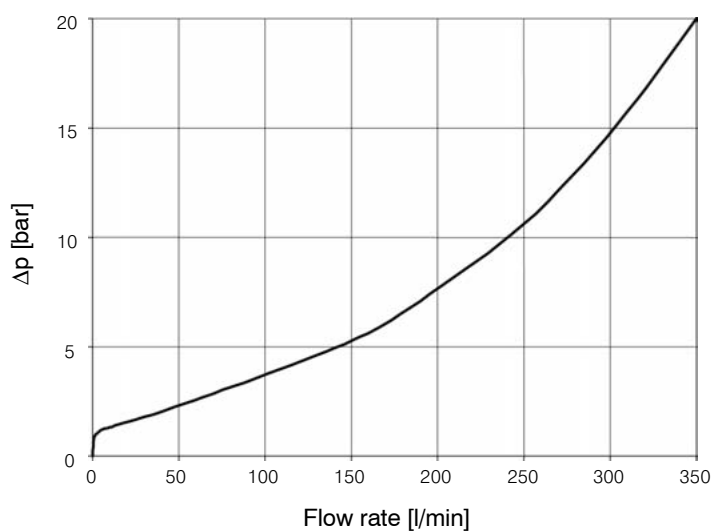


Pilot-control with the “hydro-mechanical stroke limiter” (H)

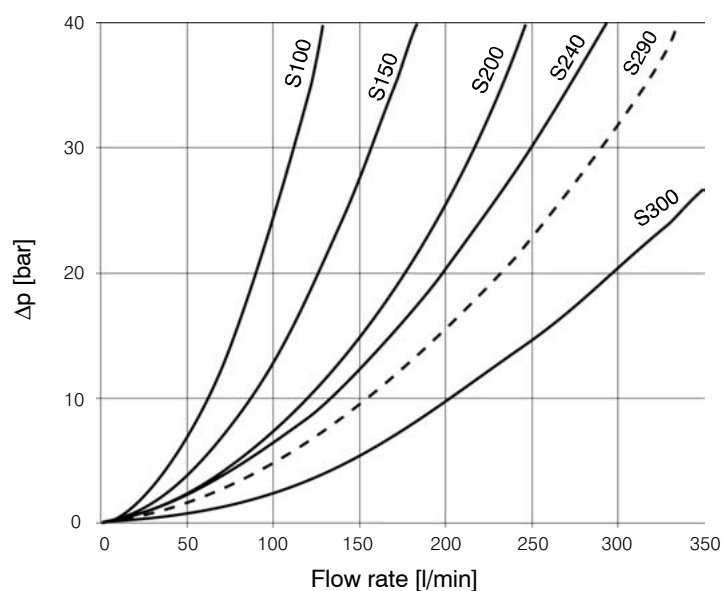


16.4 Characteristic curves (measured at 33 mm²/s [cSt])

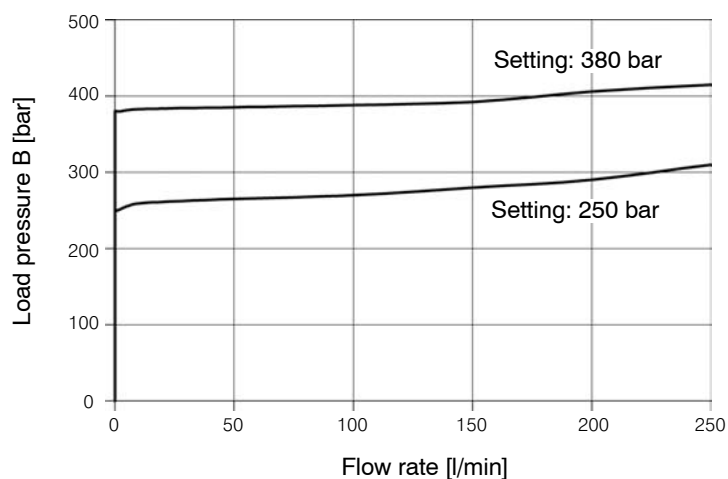
16.4.1 Δp from A $\rightarrow$ B (Lifting)



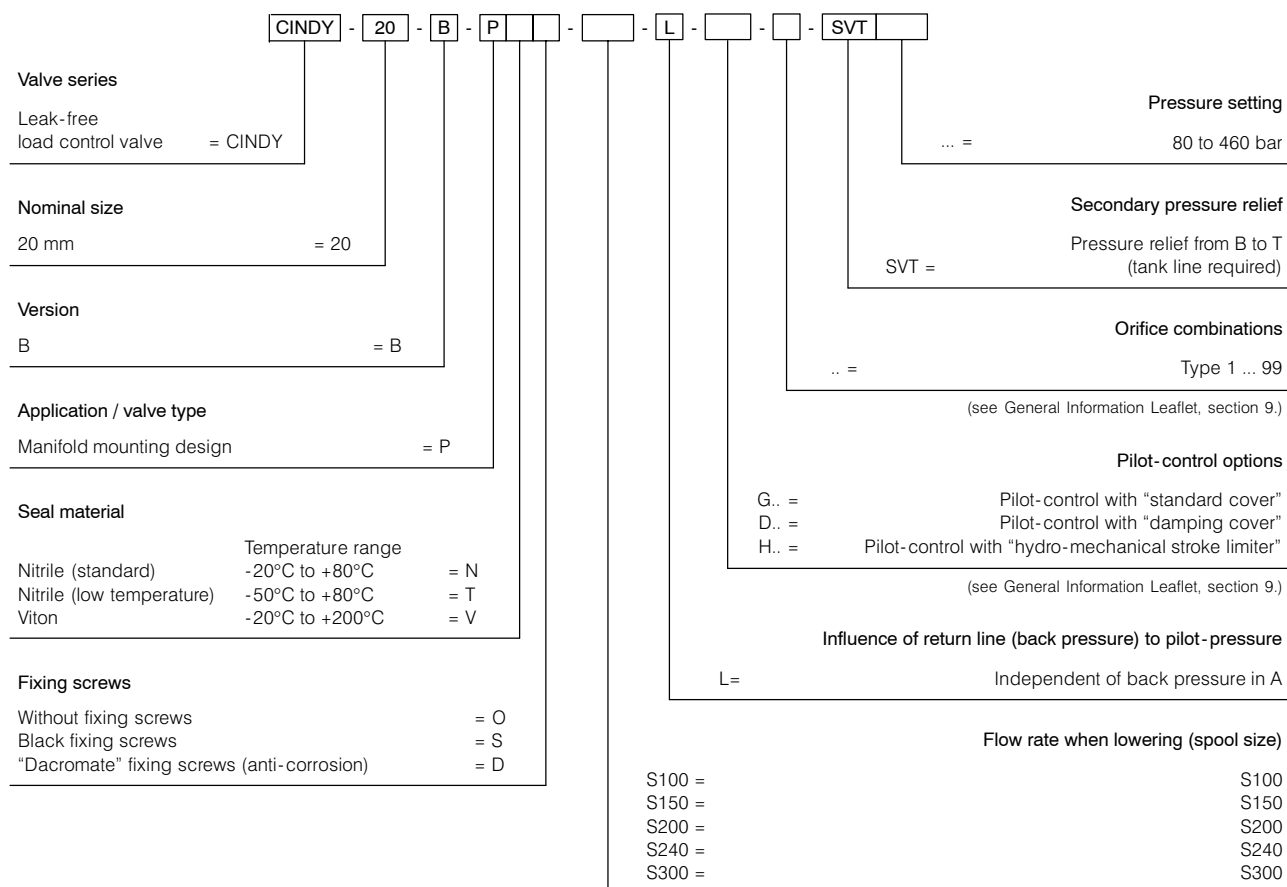
16.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



16.4.3 Opening characteristic of the secondary pressure relief valve



16.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010238.....	300 6010306.....	300 6010352.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 20-B-P-N-3-G 300.0306979	Service packages Cindy 20-B-P-V-3-G 300.0306985	Service packages Cindy 20-B-P-T-3-G 300.0307000
Pilot-control types D, H Art. No.	Service packages Cindy 20-B-P-N-3-D 300.0306980	Service packages Cindy 20-B-P-V-3-D 300.0306986	Service packages Cindy 20-B-P-T-3-D 300.0307001

17. Description Cindy-25-B-P.-.....-A-....

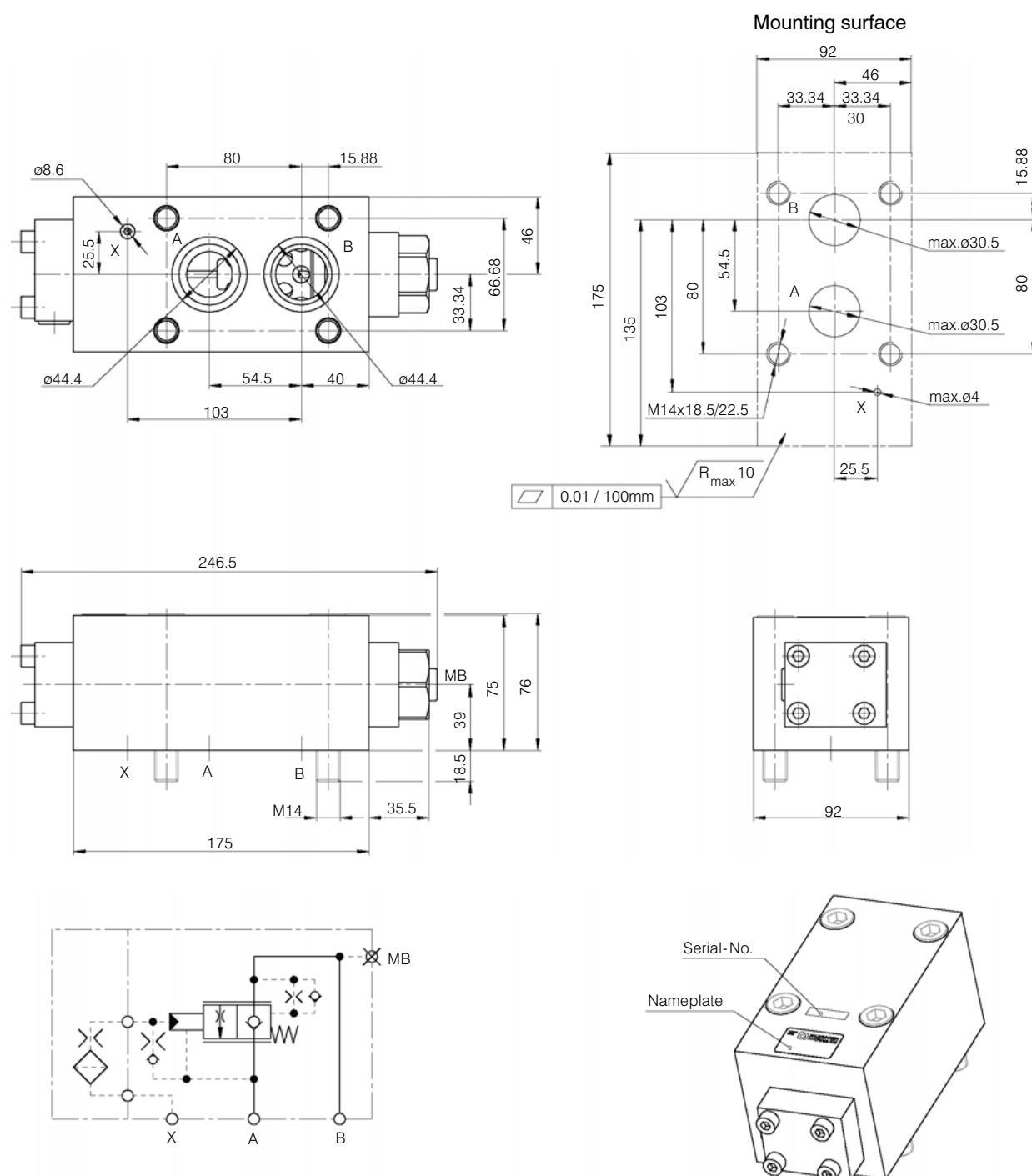
17.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 27$	3.53x37.69
B	max. $\varnothing 30.5$	3.53x37.69
X	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

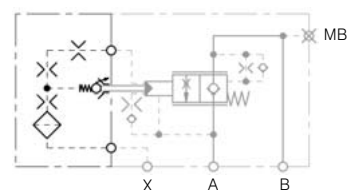
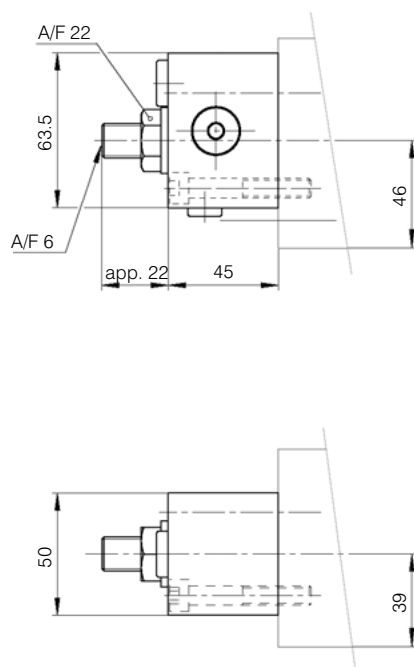
Weight: approx. 8.5 kg

17.2 Standard model

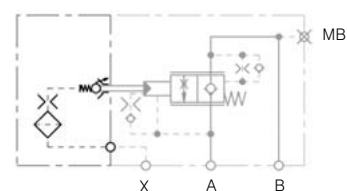
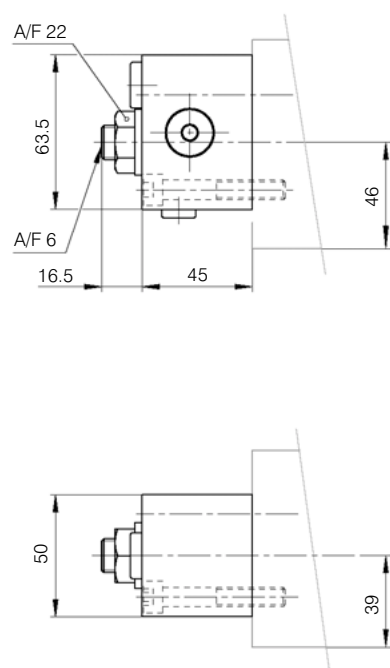


17.3 Pilot-control variants (each can be rotated through 180°)

Pilot-control with the “damping cover” (D)

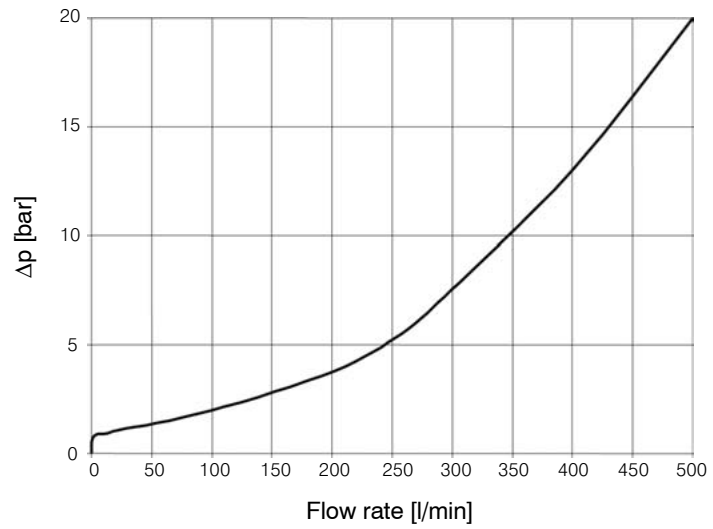


Pilot-control with the “hydro-mechanical stroke limiter” (H)

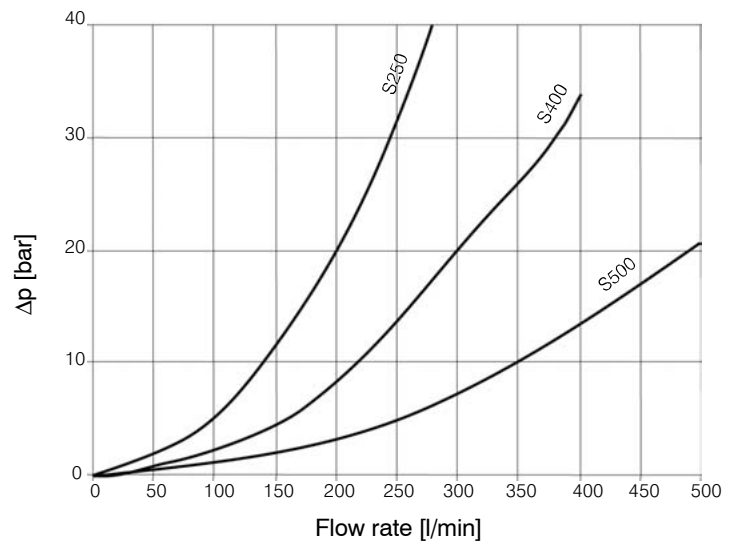


17.4 Characteristic curves (measured at 33 mm²/s [cSt])

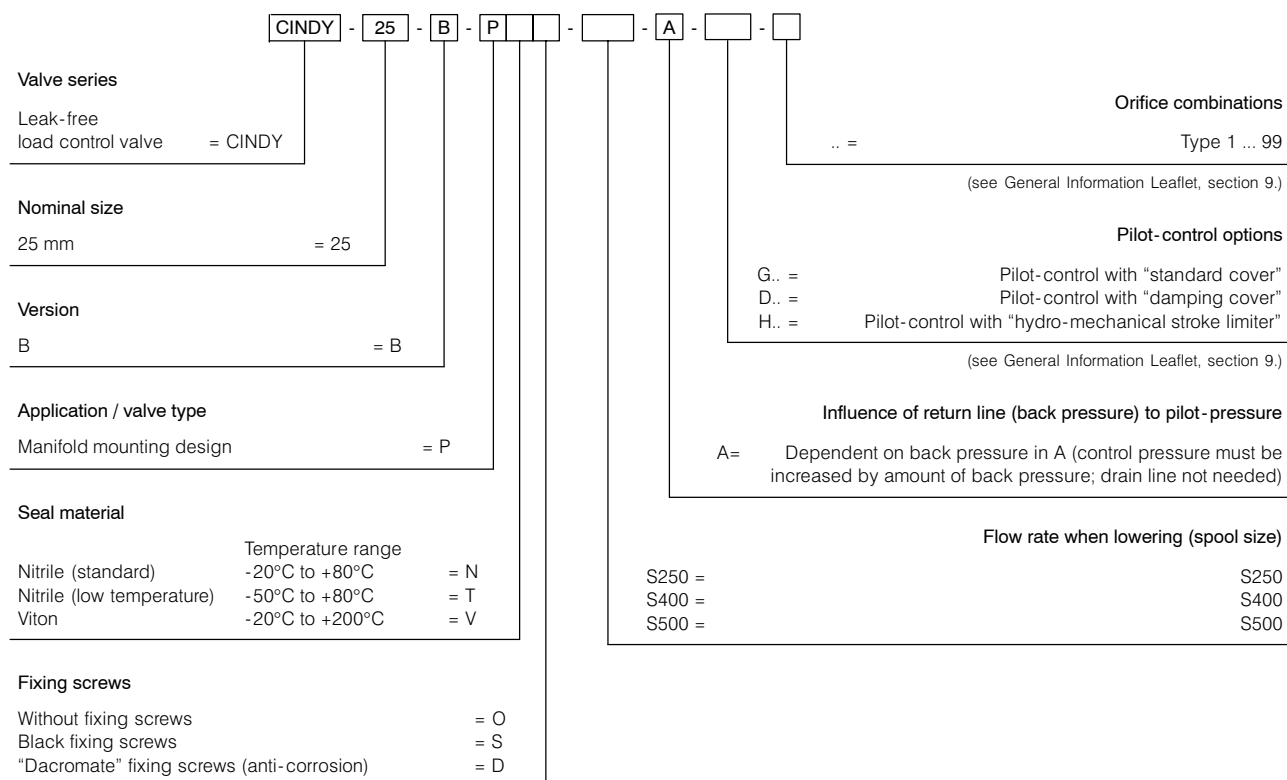
17.4.1 Δp from A $\rightarrow$ B (Lifting)



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



17.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010239.....	300 6010307.....	300 6010353.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-P-N-1-G 300.0307002	Service packages Cindy 25-B-P-V-1-G 300.0307008	Service packages Cindy 25-B-P-T-1-G 300.0307014
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-P-N-1-D 300.0307003	Service packages Cindy 25-B-P-V-1-D 300.0307009	Service packages Cindy 25-B-P-T-1-D 300.0307015

18. Description Cindy-25-B-P.-....-L-....

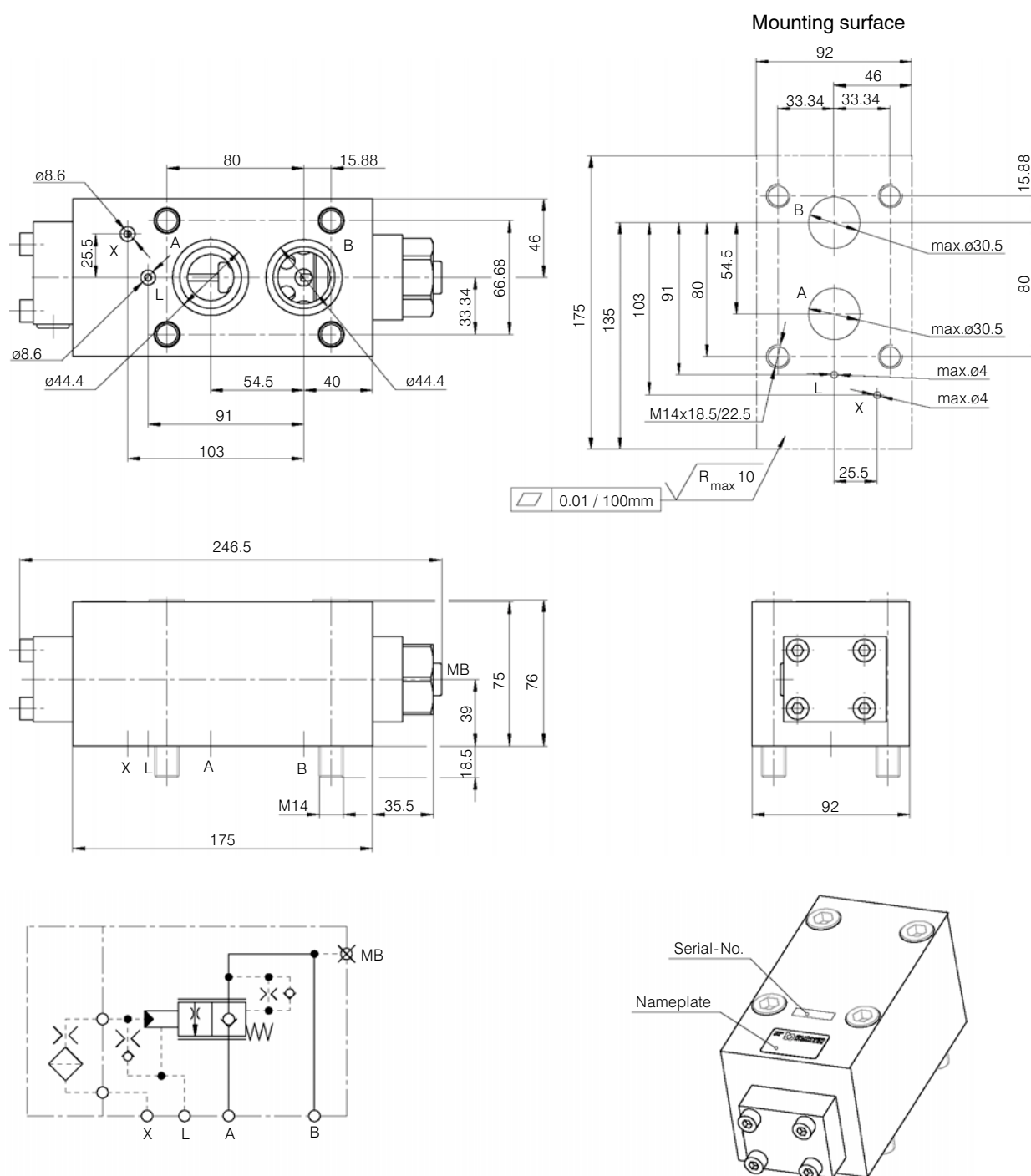
18.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 27$	3.53x37.69
B	max. $\varnothing 30.5$	3.53x37.69
X, L	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

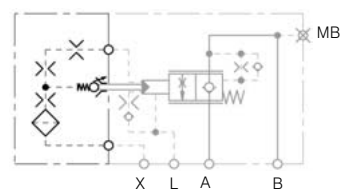
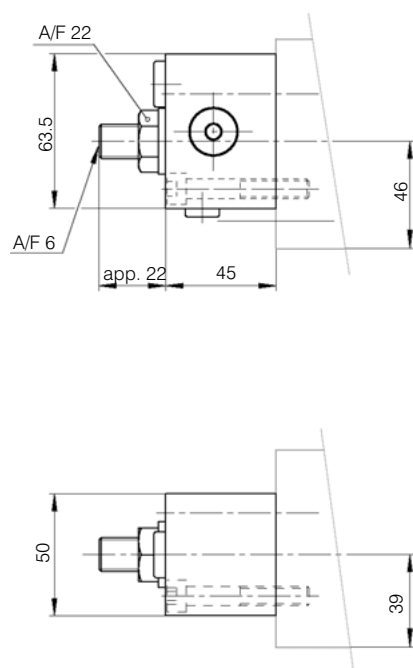
Weight: approx. 8.5 kg

18.2 Standard model

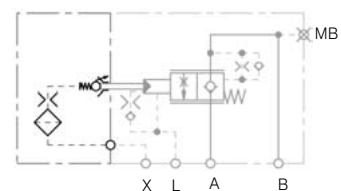
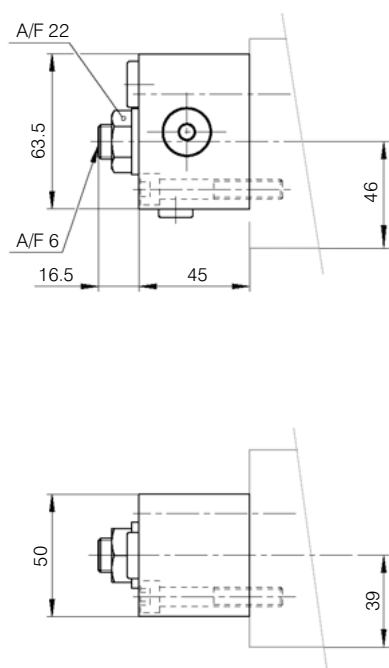


18.3 Pilot-control variants (each can be rotated through 180°)

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

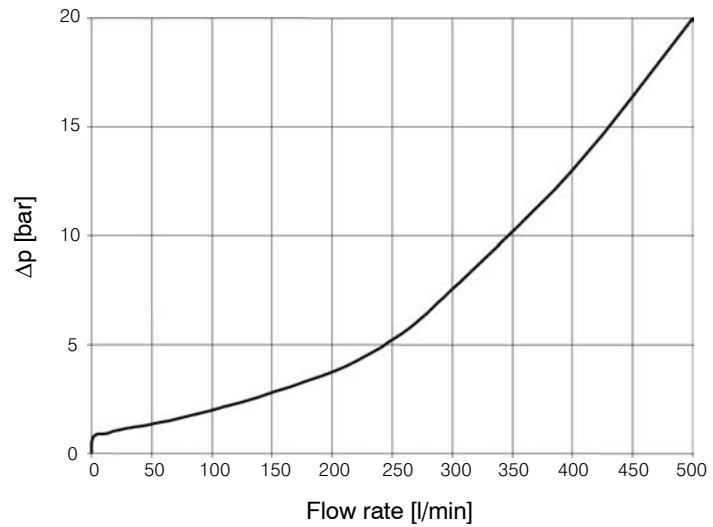


Pilot-control with the "hydro-mechanical stroke limiter" (H)

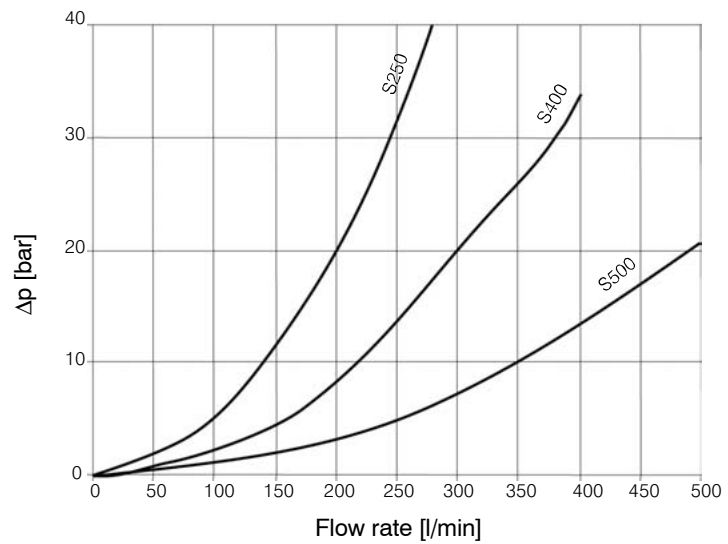


18.4 Characteristic curves (measured at 33 mm²/s [cSt])

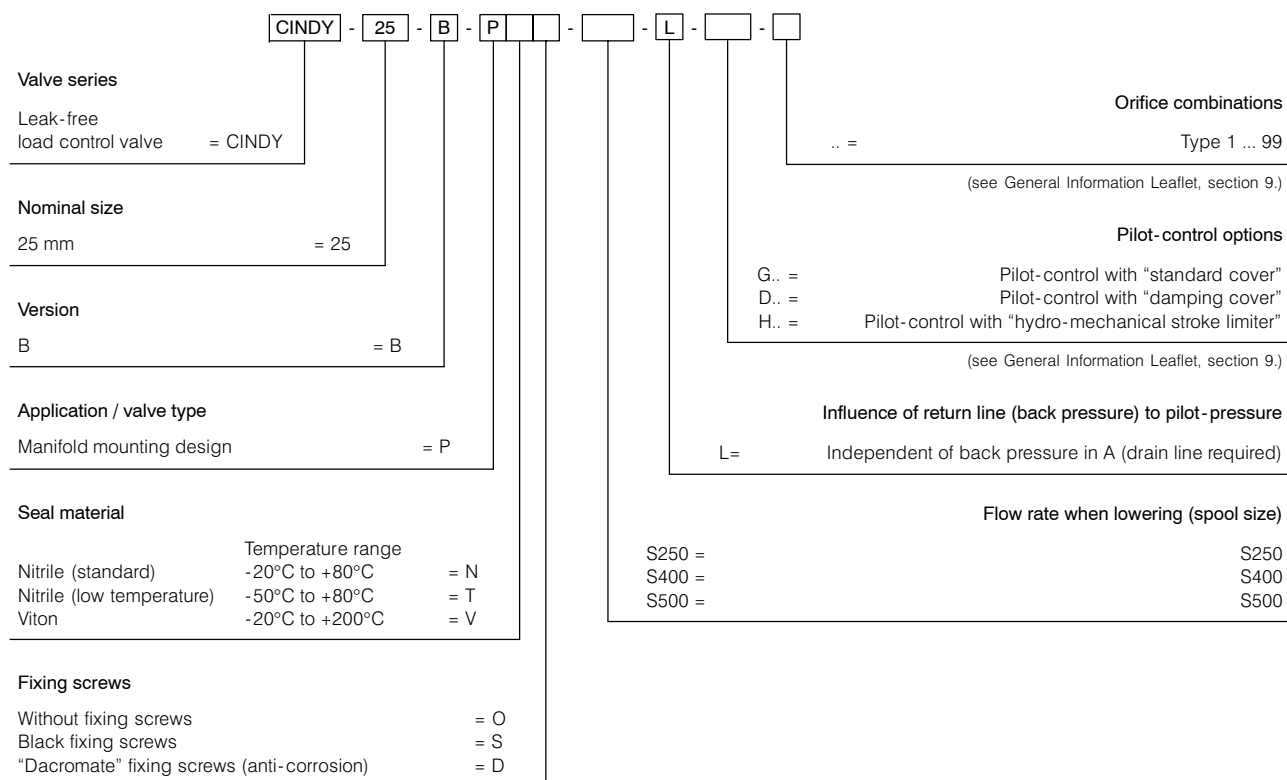
18.4.1 Δp from A $\rightarrow$ B (Lifting)



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



18.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP
Art. No. for basic valve (without specific features)	300 6010240.....	300 6010308.....	300 6010354.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-P-N-1-G 300.0307002	Service packages Cindy 25-B-P-V-1-G 300.0307008	Service packages Cindy 25-B-P-T-1-G 300.0307014
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-P-N-1-D 300.0307003	Service packages Cindy 25-B-P-V-1-D 300.0307009	Service packages Cindy 25-B-P-T-1-D 300.0307015

19. Description Cindy-25-B-P.-....-A-....-SVA...

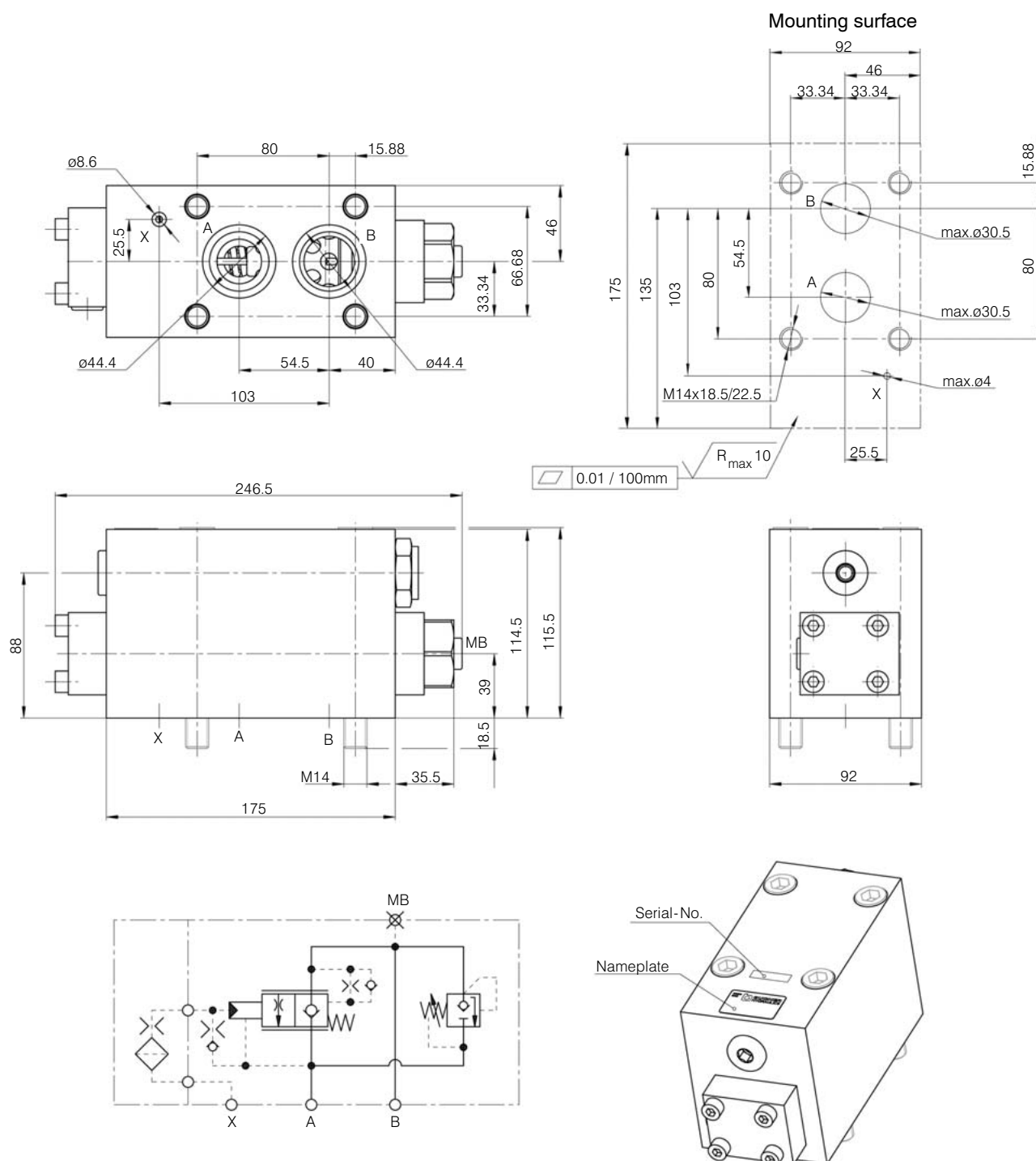
19.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 27$	3.53x37.69
B	max. $\varnothing 30.5$	3.53x37.69
X	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

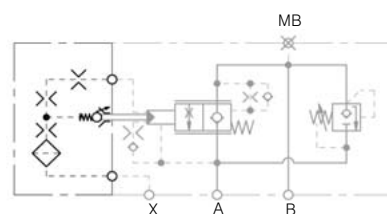
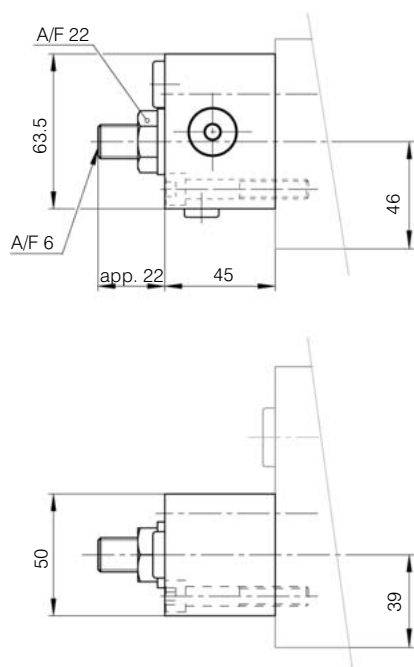
Weight: approx. 13.3 kg

19.2 Standard model

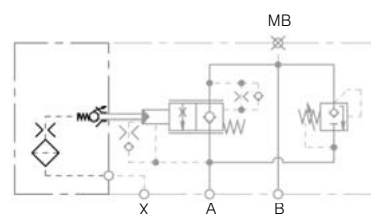
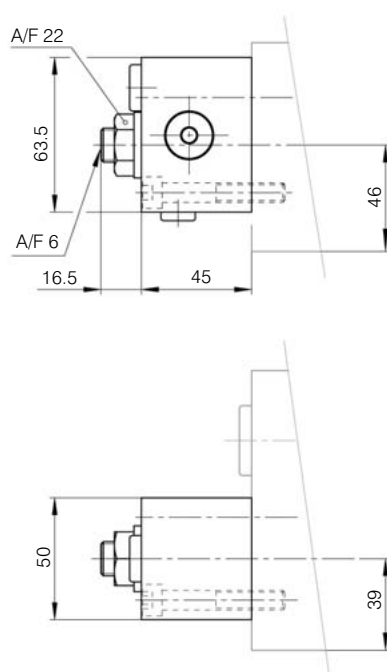


19.3 Pilot-control variants (each can be rotated through 180°)

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

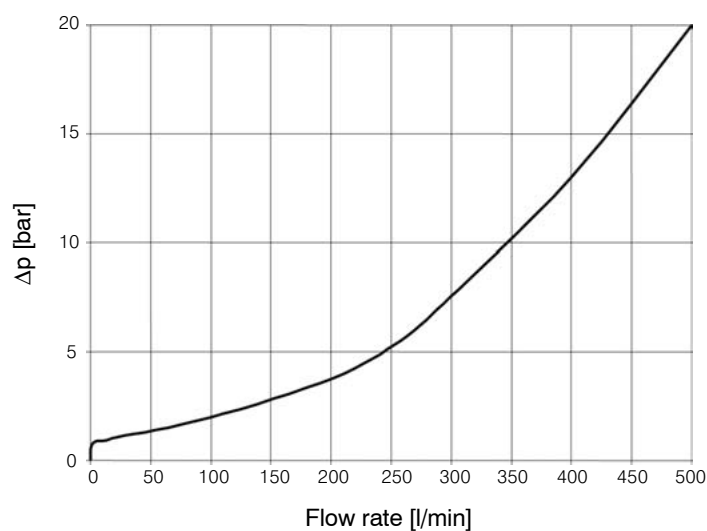


Pilot-control with the "hydro-mechanical stroke limiter" (H)

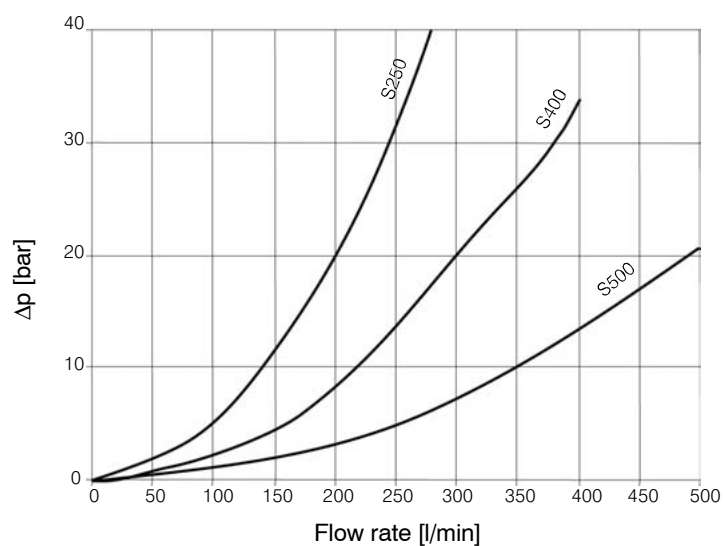


19.4 Characteristic curves (measured at 33 mm²/s [cSt])

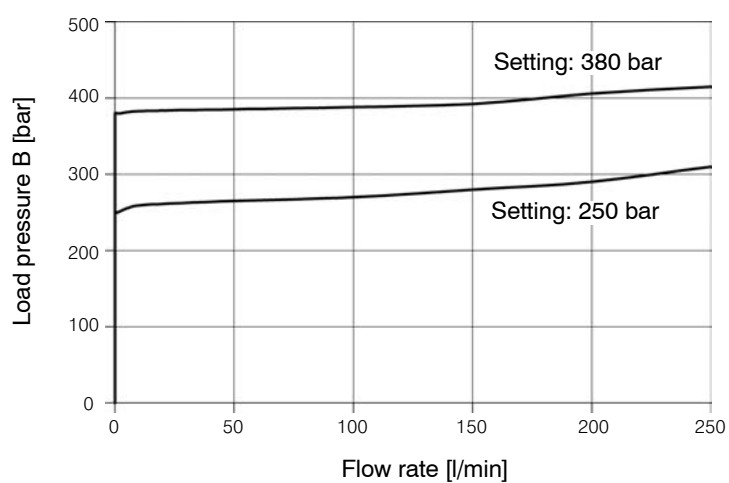
19.4.1 Δp from A $\rightarrow$ B (Lifting)



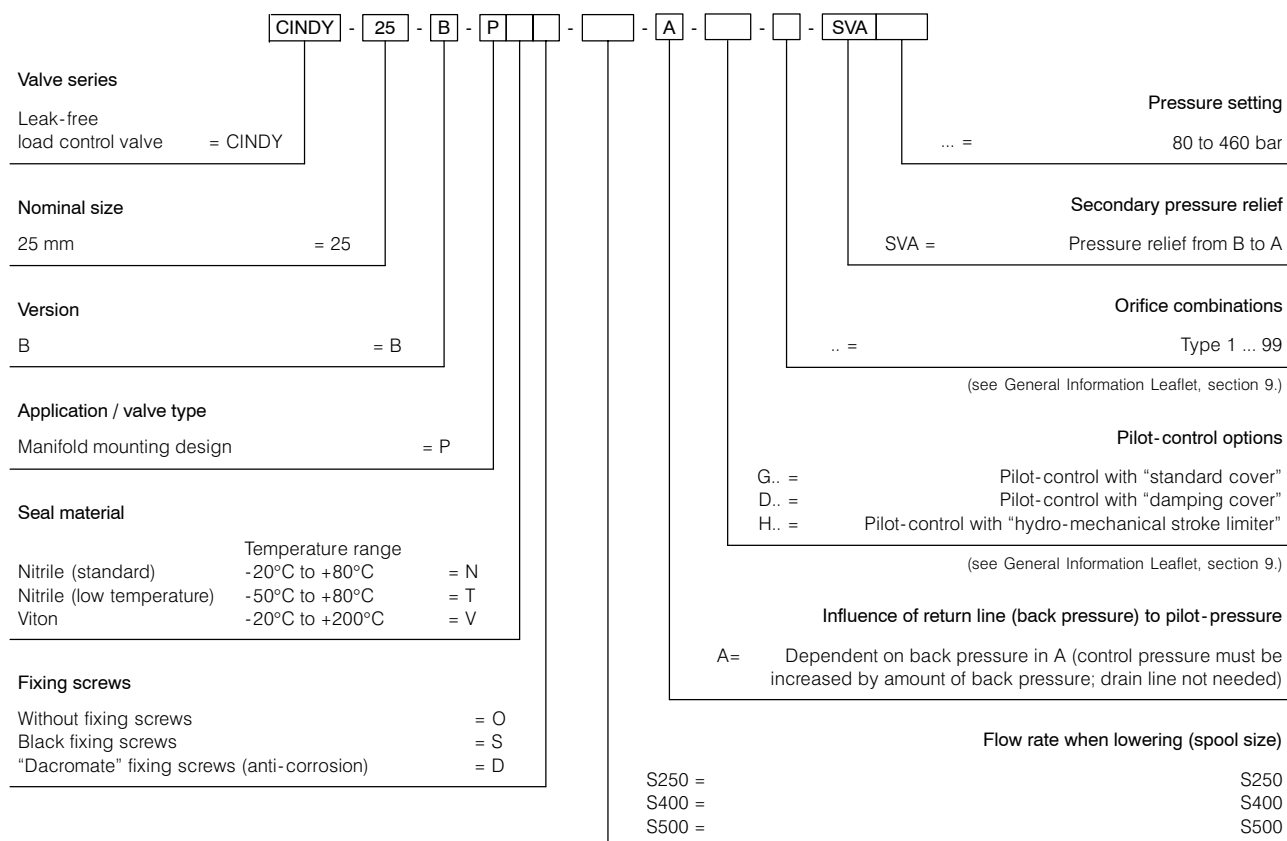
19.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



19.4.3 Opening characteristic of the secondary pressure relief valve



19.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010241.....	300 6010309.....	300 6010355.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-P-N-2-G 300.0307004	Service packages Cindy 25-B-P-V-2-G 300.0307010	Service packages Cindy 25-B-P-T-2-G 300.0307016
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-P-N-2-D 300.0307005	Service packages Cindy 25-B-P-V-2-D 300.0307011	Service packages Cindy 25-B-P-T-2-D 300.0307017

20. Description Cindy-25-B-P.-.....-L-.....-SVA...

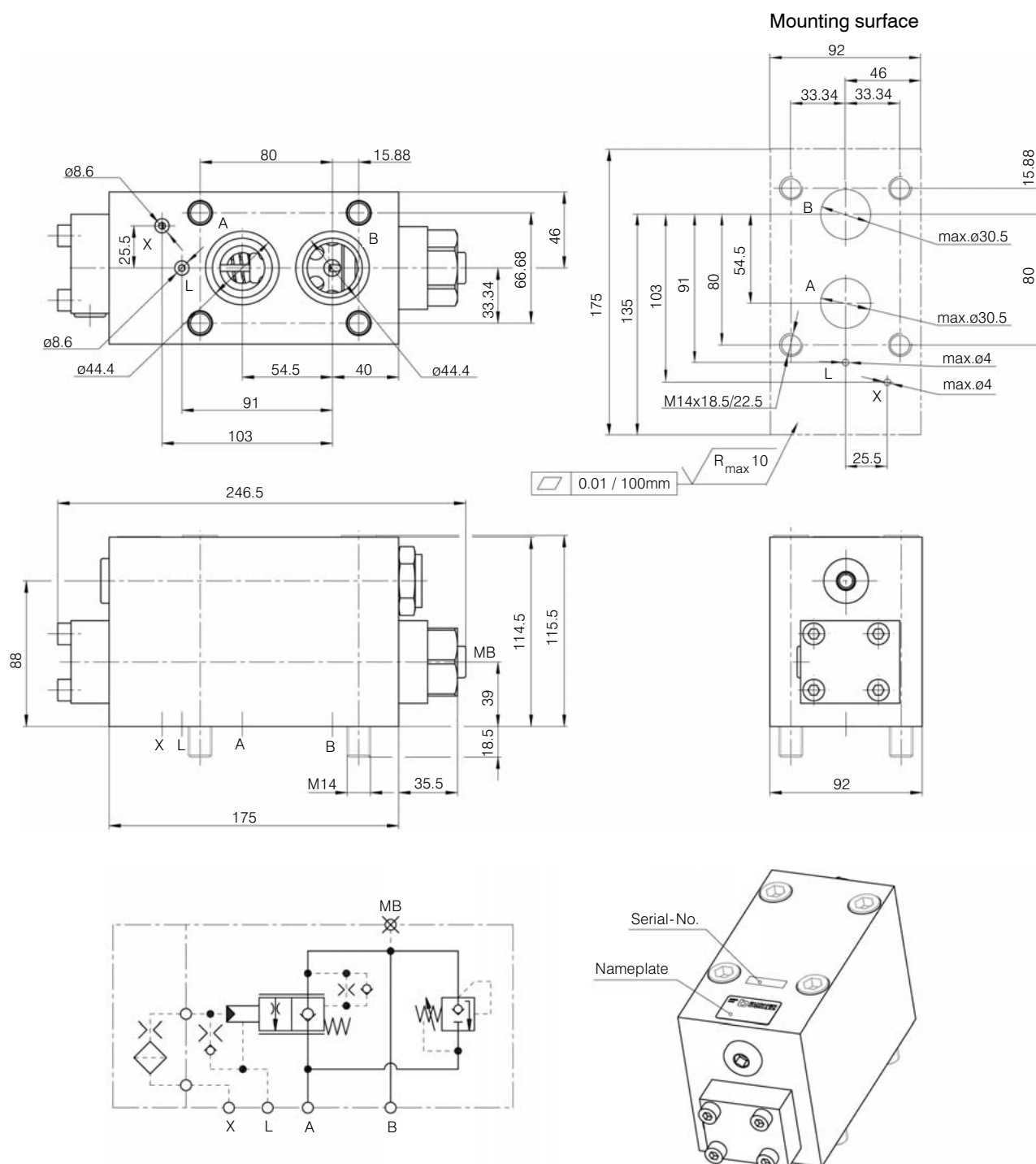
20.1 Port sizes / weight

Port	Port size	O-Ring
A	max. $\varnothing 27$	3.53x37.69
B	max. $\varnothing 30.5$	3.53x37.69
X, L	max. $\varnothing 4$	1.78x5.28
MB	G 1/4"	-

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

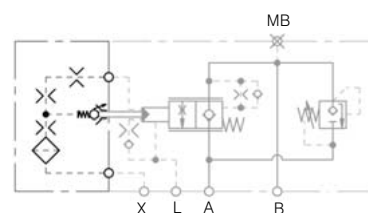
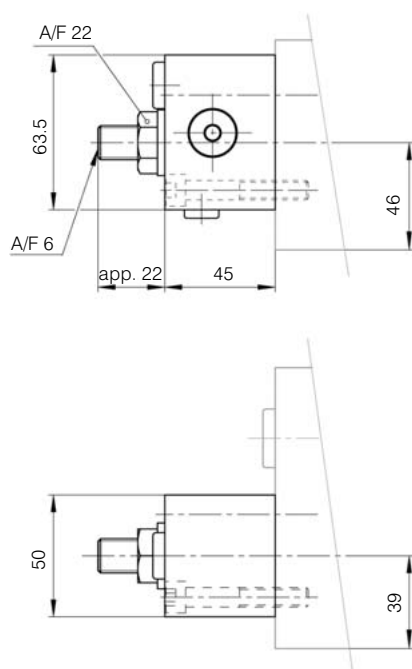
Weight: approx. 13.3 kg

20.2 Standard model

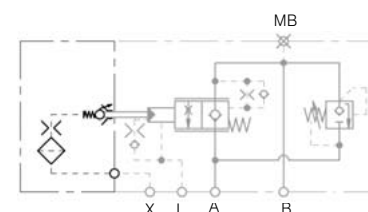
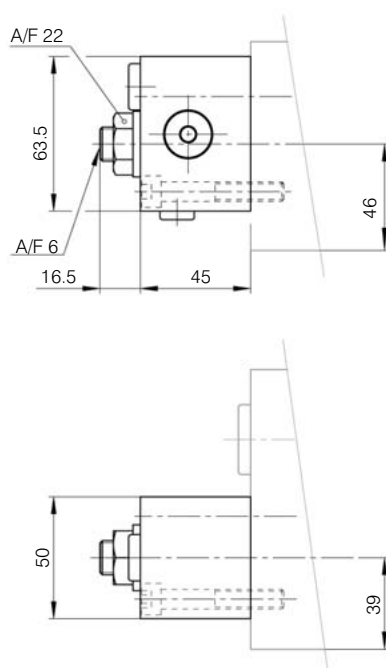


20.3 Pilot-control variants (each can be rotated through 180°)

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

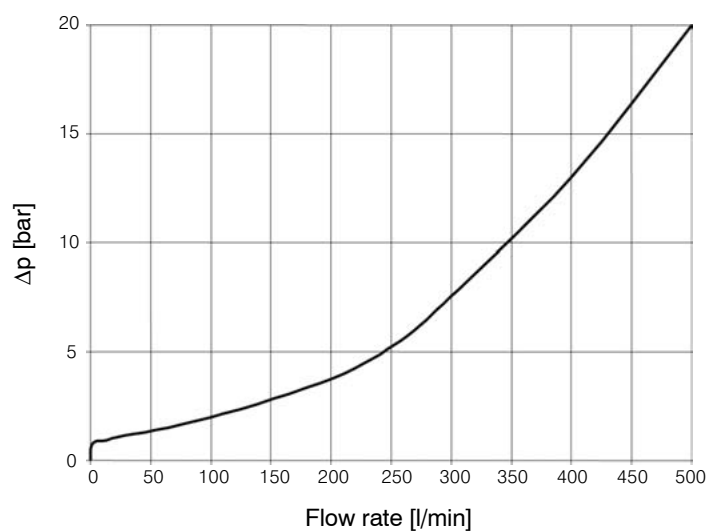


Pilot-control with the "hydro-mechanical stroke limiter" (H)

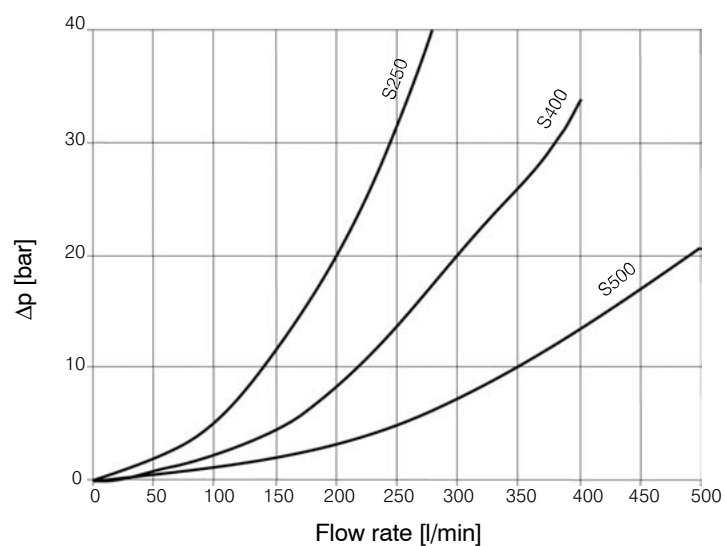


20.4 Characteristic curves (measured at 33 mm²/s [cSt])

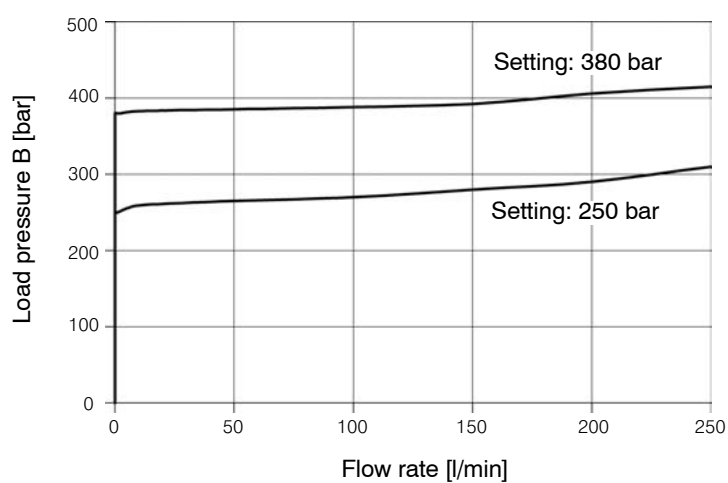
20.4.1 Δp from A $\rightarrow$ B (Lifting)



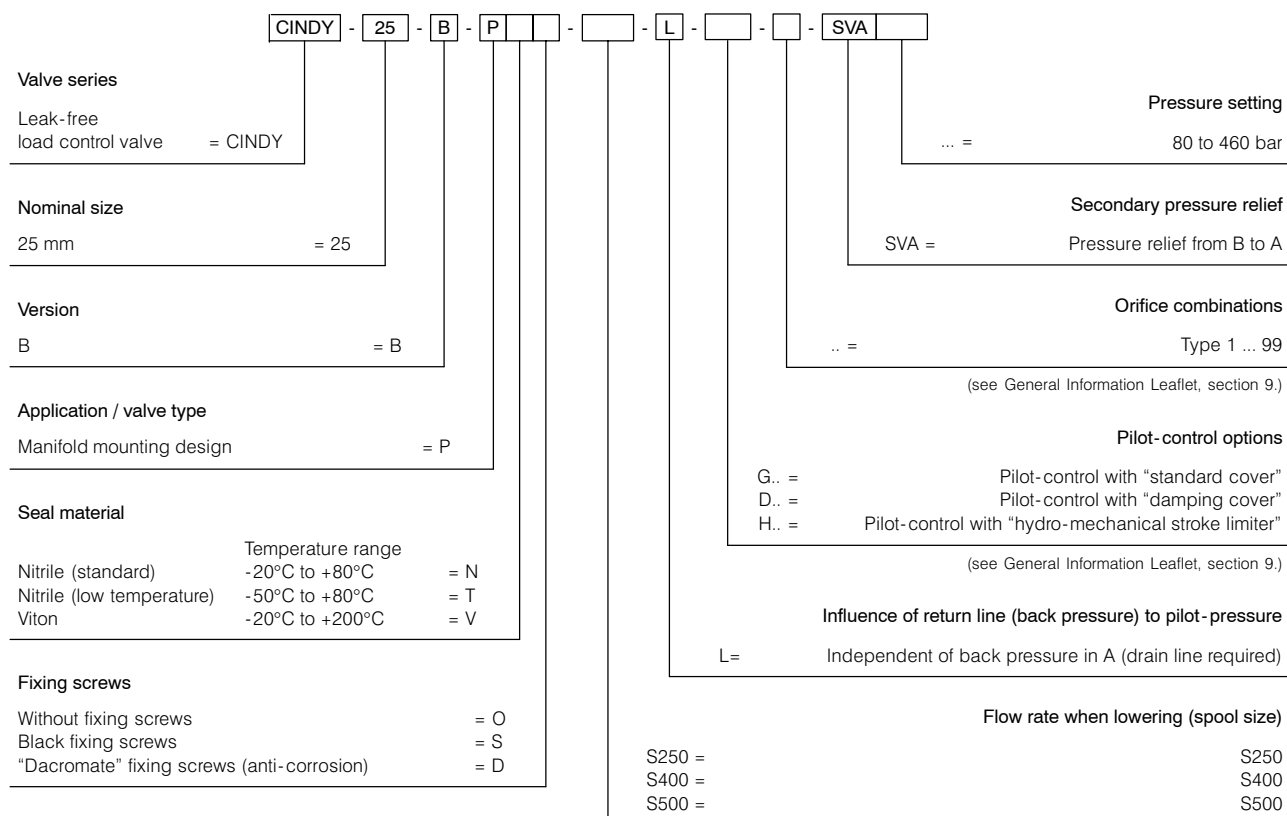
20.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



20.4.3 Opening characteristic of the secondary pressure relief valve



20.5 Model code key



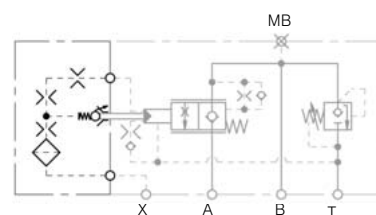
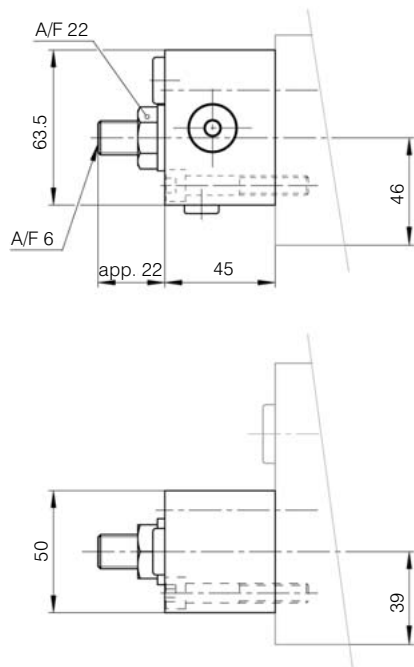
Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010242.....	300 6010310.....	300 6010356.....

Service packages

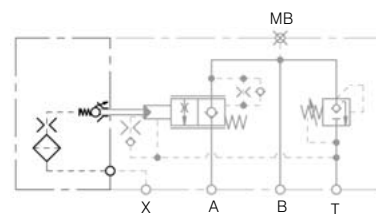
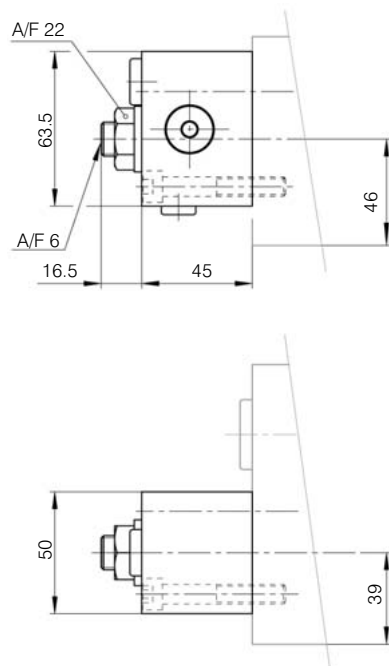
Pilot-control type G Art. No.	Service packages Cindy 25-B-P-N-2-G 300.0307004	Service packages Cindy 25-B-P-V-2-G 300.0307010	Service packages Cindy 25-B-P-T-2-G 300.0307016
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-P-N-2-D 300.0307005	Service packages Cindy 25-B-P-V-2-D 300.0307011	Service packages Cindy 25-B-P-T-2-D 300.0307017

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

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

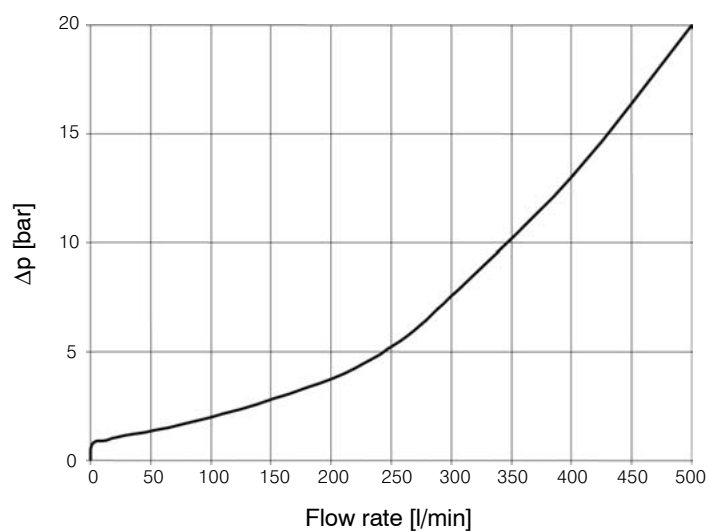


Pilot-control with the "hydro-mechanical stroke limiter" (H)

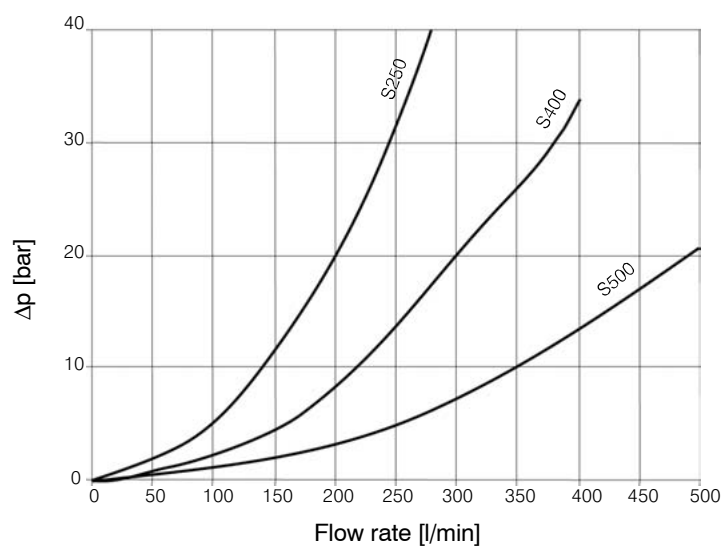


21.4 Characteristic curves (measured at 33 mm²/s [cSt])

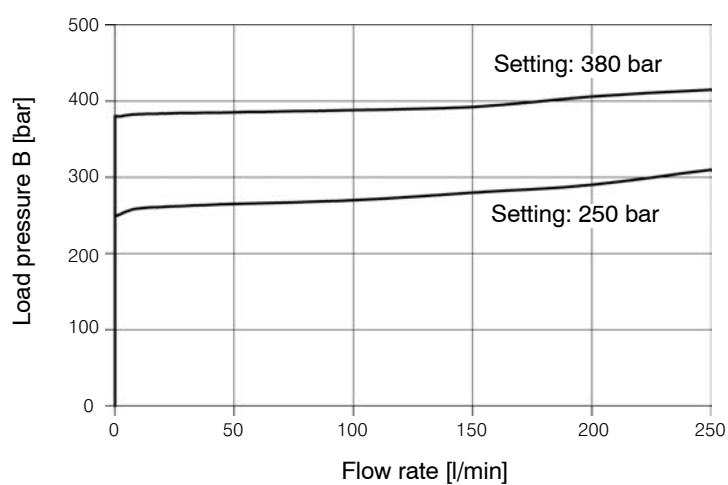
21.4.1 Δp from A $\rightarrow$ B (Lifting)



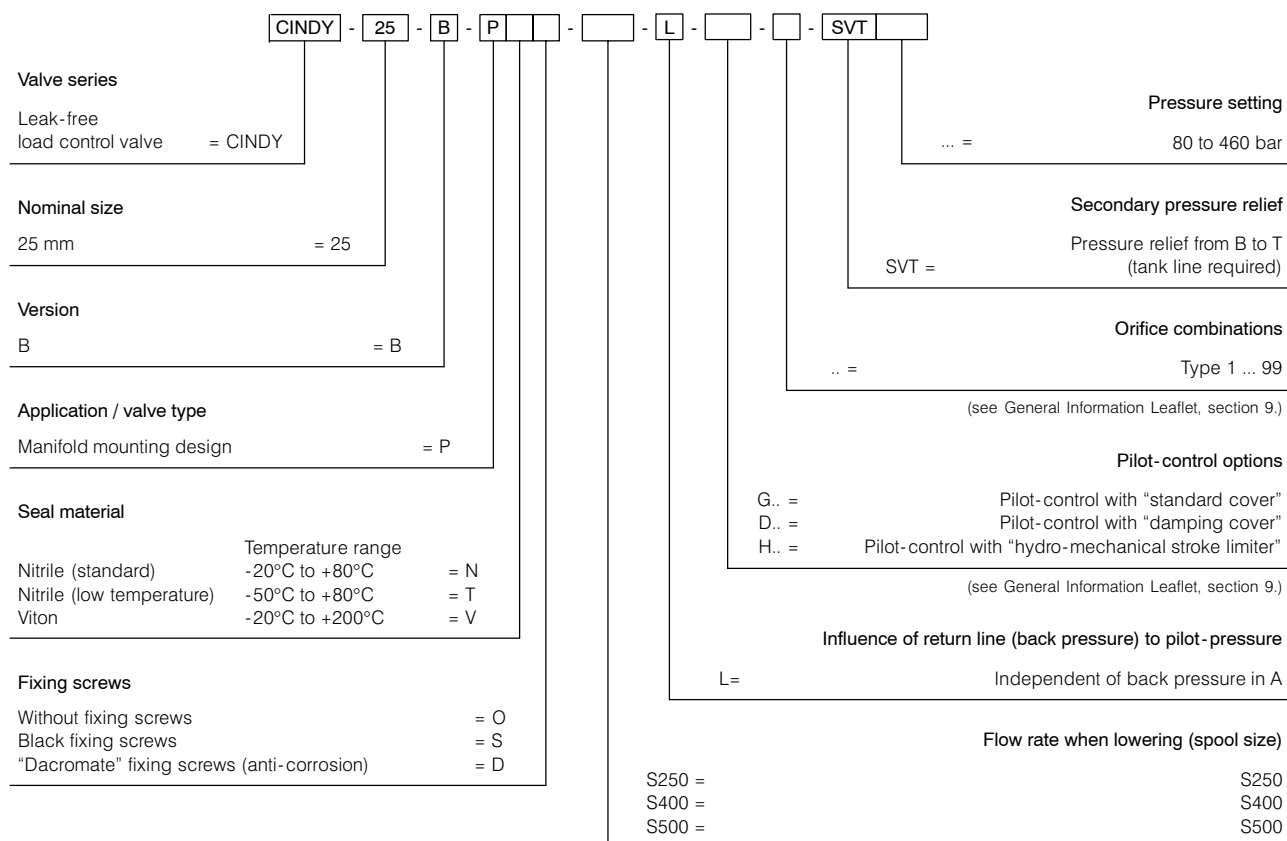
21.4.2 Δp from B $\rightarrow$ A (Lowering; spool fully open)



21.4.3 Opening characteristic of the secondary pressure relief valve



21.5 Model code key



Seal material	NITRILE	VITON	LOW-TEMP.
Art. No. for basic valve (without specific features)	300 6010243.....	300 6010311.....	300 6010357.....

Service packages

Pilot-control type G Art. No.	Service packages Cindy 25-B-P-N-3-G 300.0307006	Service packages Cindy 25-B-P-V-3-G 300.0307012	Service packages Cindy 25-B-P-T-3-G 300.0307018
Pilot-control types D, H Art. No.	Service packages Cindy 25-B-P-N-3-D 300.0307007	Service packages Cindy 25-B-P-V-3-D 300.0307013	Service packages Cindy 25-B-P-T-3-D 300.0307019

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We reserve the right of modification without notice.