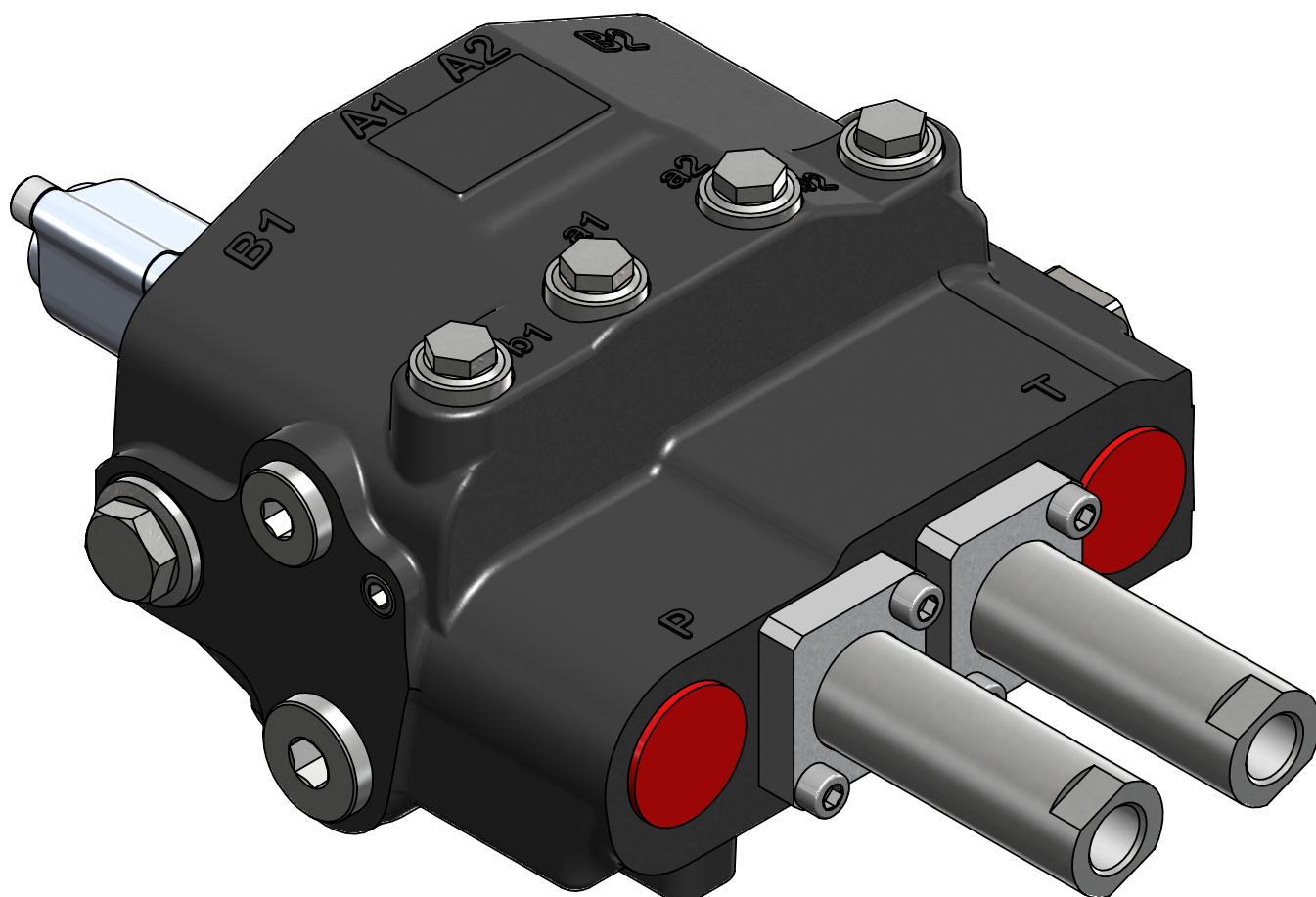

2PFL122



Monoblock valve for front loaders applications

2PFL122

Features

- Configuration open centre 2PFL122
- Fitted with main pressure relief valve and load check valve on every working section
- Optional high pressure carry-over (power beyond)
- Anticavitation and antishock valves (with fixed settings) available on every section
- Dedicated range of controls: manual and remote control with flexible cables

Additional information

This catalog shows the product in the most usual configurations. Please contact Sales Dpt. for more detail information or special request.

WARNING!

All specifications of this catalog refers to the standard product at this date. Badestnost is oriented to a continuous improvement and reserves the right to discontinue, modify or revise the specifications, without notice.

Badestnost is not responsible for any damage caused by an incorrect use of the product.

1st edition January 2017

Working conditions

Nominal flow rating		80 l/min	21 US gpm
Operating pressure (max.)		250 bar	3600 psi
Internal leakage (max.) A(B) to T	$\Delta p = 100$ bar (1450 psi) fluid and valve at 40 °C (104 °F)	3 cm ³ /min	0.18 in ³ /min
Hydraulic fluid		Mineral based oil	
Fluid temperature	with NBR	from -20 °C to 80 °C	from -4 °F to 176 °F
	with FPM	from -20 °C to 100 °C	from -4 °F to 212 °F
Viscosity	operating range	from 15 to 75 mm ² /s	from 15 to 75 cSt
	min.	12 mm ² /s	12 cSt
	max.	400 mm ² /s	400 cSt
Max contamination level		-/19/16 - ISO 4406	NAS 1683 - class 10
Ambient temperature for working conditions	with mechanical devices	from -40 °C to 60 °C	from -40 °F to 140 °F
	with mechatronic devices	from -30 °C to 60 °C	from -22 °F to 140 °F

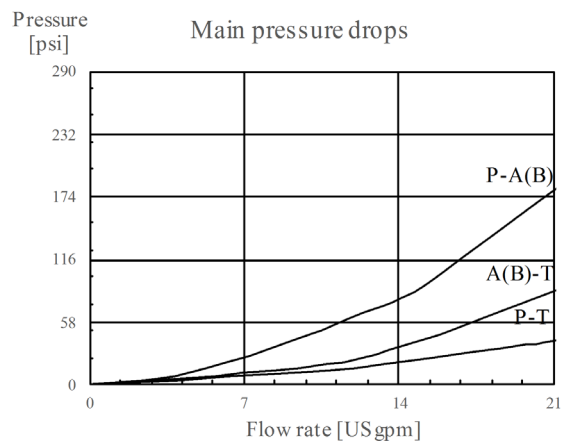
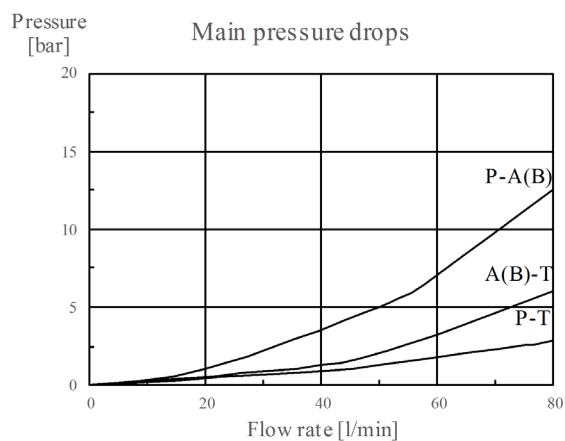
Standard threads

Standard		BSP	UN-UNF	METRIC	NPTF
Thread according to		ISO 228/1	ISO 263	ISO 262	ANSI B1.20.3
		BS 2779	ANSI B1.1 unified		
Cavity dimension according to	ISO	1179	11926	9947-1	
	SAE		J1926	J2244	J476a
	DIN	3852-2		3852-1	

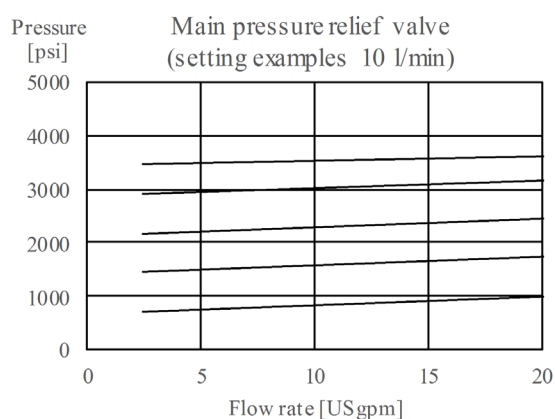
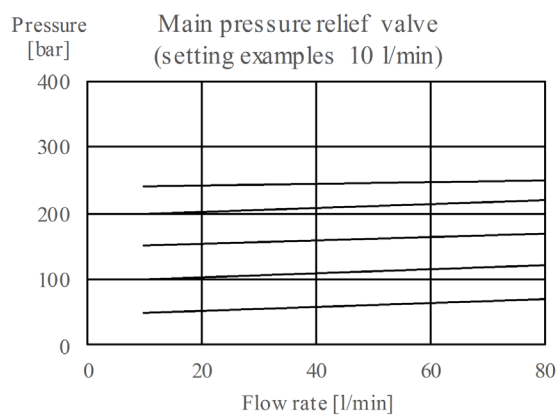
Port threads

	BSP	UN-UNF	Metric
Order code	G	S	M
Inlet P and power beyond N	G 3/4	11/16-12 (SAE12)	M27x2
Ports A and B	G 1/2	7/8-14 (SAE10)	M22x1,5
Outlet T	G 3/4	11/16-12 (SAE12)	M27x2

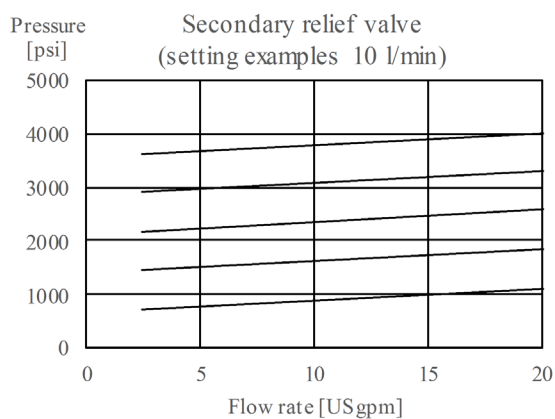
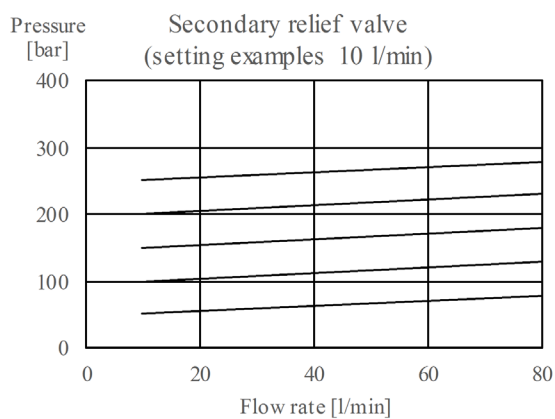
General performance data



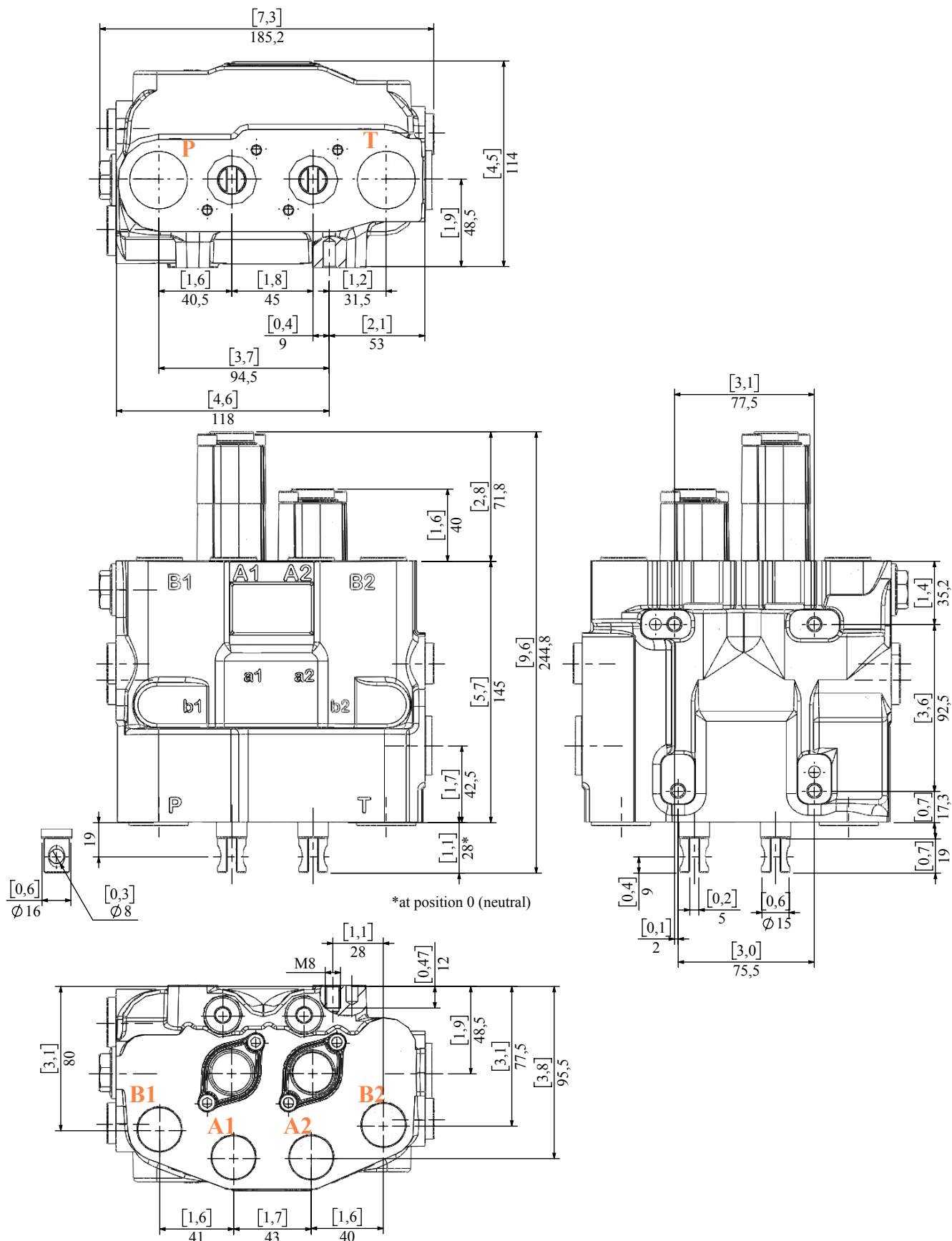
Main relief valve characteristics



Secondary relief valve characteristics



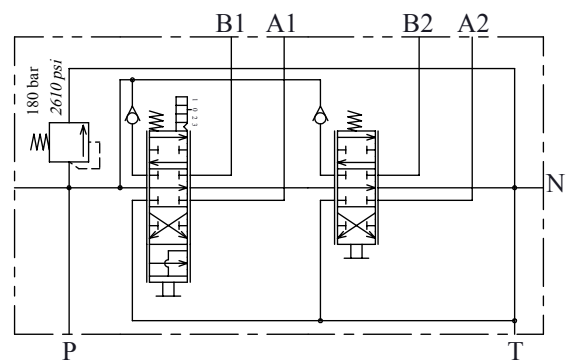
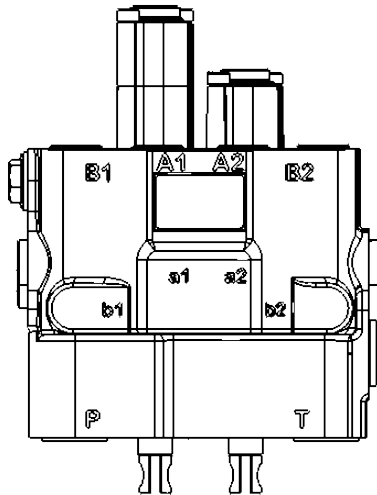
Dimensional data



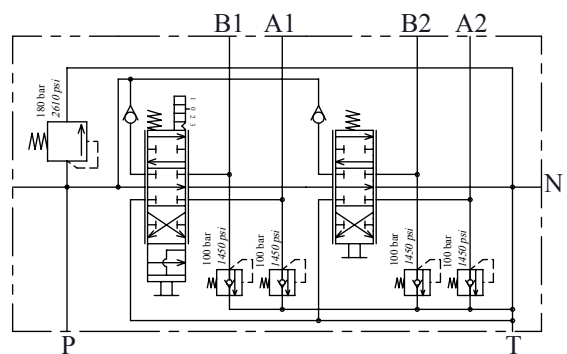
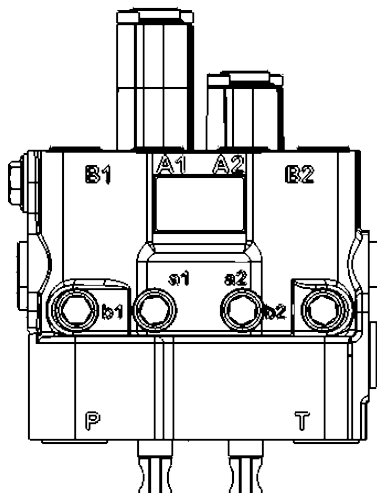
2PFL122

Hydraulic circuit

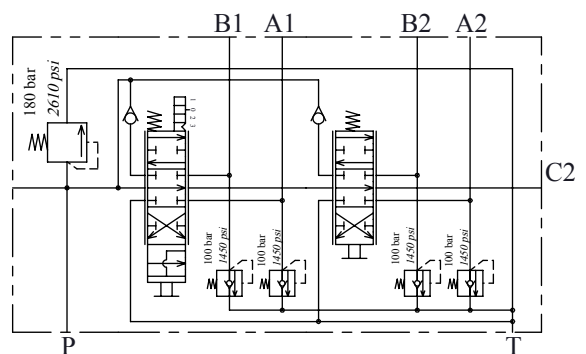
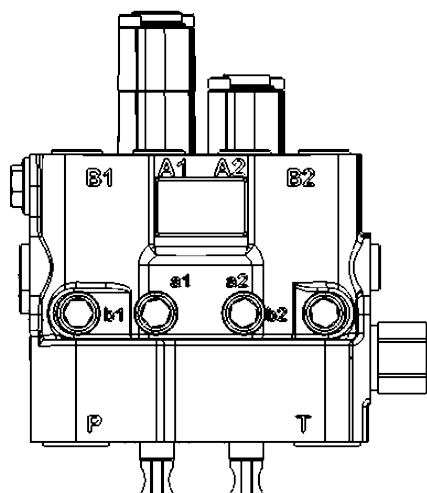
Configuration without port valves



Configuration with port valves



Configuration with port valves and high pressure carry over

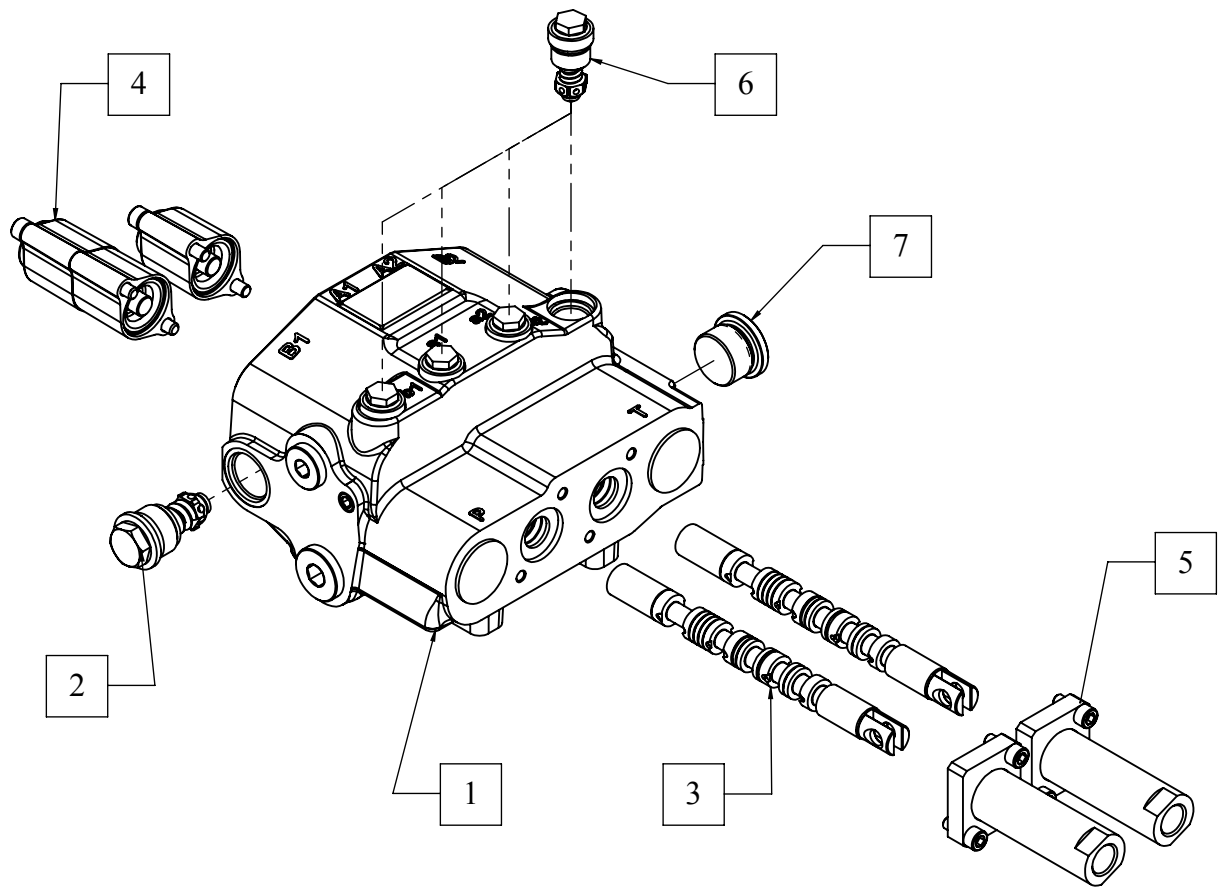


Order code

Main relief valve pressure setting [bar] Port relief valve pressure setting [bar]

2PFL122a/(D-180)/ L 12 V1 (Az100Bz150)/ L 1SC V1(Az100Bz150)/ -G-

1 2 3 4 5 6 7 8



1. Body kit (includes body, seals, and load check valves)	
Code	Description
2PFL122	Without port valves arrangement
2PFL122a	With port valves arrangement

2. Inlet pressure relief valve	
Code	Description
(D-170)	Setting 170 bar (2450 psi)
(D-180)	Setting 180 bar (2600 psi)
(D-190)	Setting 190 bar (2750 psi)
(D-210)	Setting 210 bar (3050 psi)
(D-230)	Setting 230 bar (3600 psi)
svp	Valve blanking plug

Order code

3. Spool type	
Code	Description
L	With spool positioner 1SC: double acting, 3 positions, with A and B closed in neutral position.
	With spool positioner 12: 4 positions, A and B to tank in 4th position (floating), spool in.

4. Spool positioner type	
Code	Description
1SC	With spring return in neutral
12	Detent in floating position 3rd (spool in) and spring return to neutral in positions 1 and 2

5. Type control	
Code	Description
-	Mechanical control kit arrangement
V1	With cable control kit

6. Port valves	
x	Anticavitation valve
o	Port valve blanking plug
z	Fixed setting combined valve, antishock and anticavitation

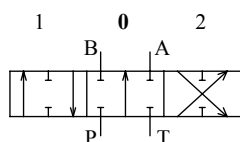
7. Circuit options	
Code	Description
-	Open center plug (standard plug on port N, port N and T are connected)
C	Closed center plug
C1(G34)	High pressure carry-over kit with outlet male G 3/4"
C2(G12)	High pressure carry-over kit with outlet G 1/2 " (DIN 3852-2).
C2(G34)	High pressure carry-over kit with outlet G 3/4 " (DIN 3852-2).

8. Thread type (page 3)	
Code	Description
G	BSP threads
S	UN-UNF threads
M	Metric threads

Spools

3 position configuration

Configuration with double acting, 3 position, A and B closed in neutral.

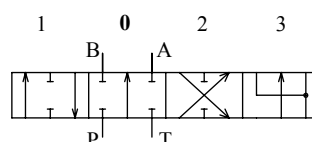


Spool stroke: type L

position 1: + 7 mm + 0.28 in
position 2: - 7 mm - 0.28 in

4 position configuration

Configuration with 4 position, A and B to tank in 4th position (floating).



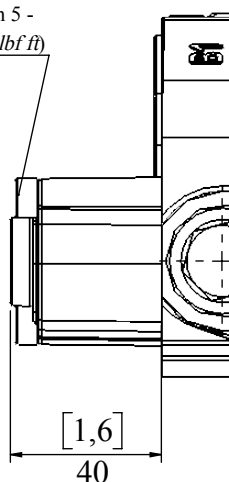
Spool stroke: type L

position 1: + 7 mm + 0.28 in
position 2: - 7 mm - 0.28 in
position 3: - 12 mm - 0.47 in

Spool positioners

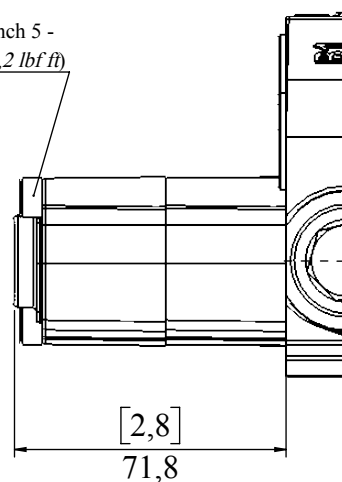
Type 1SC

Allen wrench 5 -
9,8 Nm (7,2 lbf ft)



Type 12

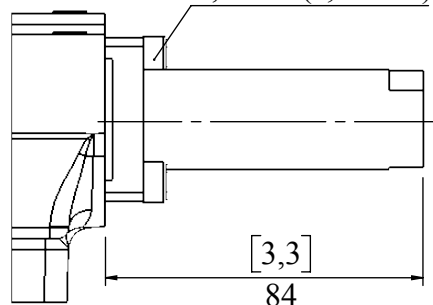
Allen wrench 5 -
9,8 Nm (7,2 lbf ft)



Spool controls

Type V1

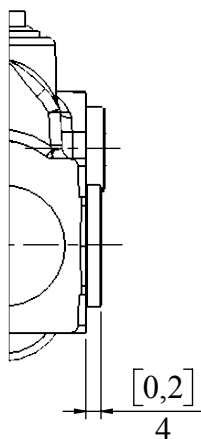
Allen wrench 5 -
9,8 Nm (7,2 lbf ft)



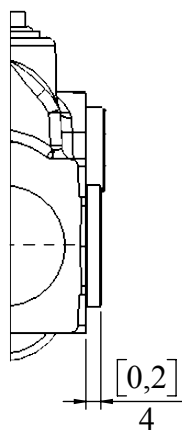
2PFL122

Return circuit

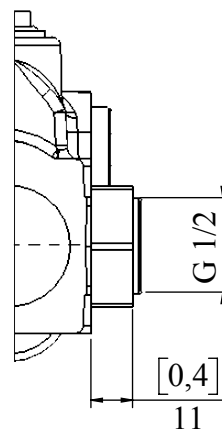
Type: (-)
Open center plug



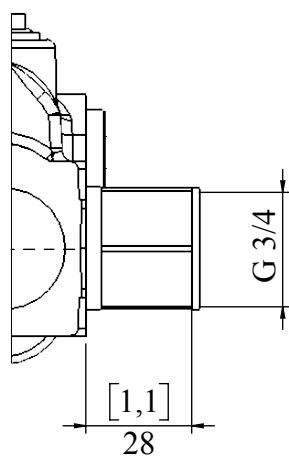
Type C
Closed center plug



Type C2(G12)
G1/2" Female carry-over sleeve



Type C2(G34)
G3/4" Female carry-over sleeve



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