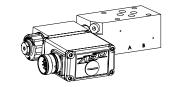


Proportional pressure relief valve

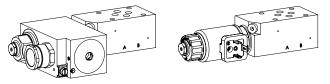
Flange- or Sandwich construction

pilot or direct operated

- $Q_{max} = 60 \text{ l/min}$
- ◆ p_{max} = 400 bar



NG6 ISO 4401-03



DESCRIPTION

Pilot or direct operated proportional pressure relief valve in flange or sandwich construction. When the operating pressure adjusted by means of the proportional solenoid is reached, the valve opens and connects the protected line with the drain to the tank. These proportional valves are very sensitively adjustable. For flange or sandwich executions with pressure relief in port P, there is a manometer connection. For the control, Wandfluh proportional amplifiers are available (see register 1.13).

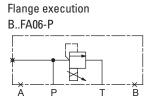
APPLICATION

These valves are used in hydraulic systems where the pressure has to be changed frequently. The electrical remote control in conjunction with process controls allows economical solutions with repeatable processes.

Direct operated execution drawn

◆ All variants are also available pilot operated

SYMBOL



Sandwich execution B..SA06-A

Designation

Construction

Nominal size

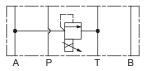
Ambient temperature

Mounting

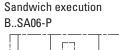
Actuation

Weight

MTTFd



GENERAL SPECIFICATIONS



Proportional pressure relief valve

Flange- or Sandwich construction

NG6 according to ISO 4401-03

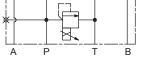
Without screw-in cartridge 1,45 kg (Flange construction) 1,20 kg (Sandwich construction P) 0,96 kg (Sandwich construction A,B) 1,56 kg (Sandwich construction AB)

Pilot or direct operated

Proportional solenoid

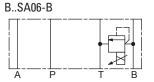
-25...+70 °C

150 years

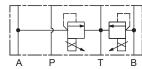


Sandwich execution

Note!



Sandwich execution B..SA06-AB



ACTUATION

Actuation

Proportional solenoid, wet pin push type, pressure tight

Note!

Other specifications, see data sheet of the screw-in cartridges



TYPE CODE

			В		A	06 - 🗌	-		#	
Pressure relief valve										
Direct operated Pilot operated	D V									
Proportional Proportional, Ex-protection	P B									
Flange construction Sandwich construction	F									
International standard interf	ace ISO, NG6									
Type list / Function	flange construction in P P	sandwich construction in P P in A A in B B in A und B AB								
Nominal pressure range p _N ,	Nominal voltage U _N , etc. of the	built-in screw-in cartridge					 			
Design index (subject to cha	ange)									
2.3-740										-

Examples: B_VP_F_A06-P_-20-G24/WD-HB4,5 B_DB_S_A06-A_-100-G12/L15 B_VP_S_A06-AB-350-G12/MEA1R1

HYDRAULIC SPECIFICATIONS

	Working pressure	p _{max} = 400 bar
	Nominal pressure	P_N = see data sheet of the screw-in
	range	cartridges
Ì	Volume flow range	Q = 060 l/min
	Fluid	Mineral oil, other fluid on request
	Viscosity range	12 mm²/s320 mm²/s
	Temperature range	-25+70 °C (NBR)
	fluid	-20+70 °C (FKM)
	Contamination efficiency	Class 18 / 16 / 13
	Filtration	Required filtration grade ß 6…10 ≥ 75, see data sheet 1.0-50

PERFORMANCE SPECIFICATIONS

Note!

Detailed performance specifications as well as further hydraulic specifications can be found on the data sheet of the pressure reducing cartridge installed.

Attention!

<u>I</u>

The performance data especially the "pressure-flowcharacteristic, on the data sheets of the screw-in catridges refere to the screw-in cartridges only. The additional pressure drop of the flange body respectivly sandwich body must be taken into consideration.

VALVES INSTALLED

The following screw-in cartridges are used in either the flange body or the sandwich body.

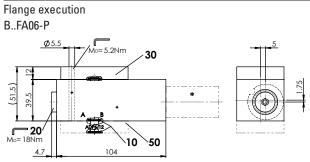
Article	Description	Data sheet	
		no.	
BVPPM22	Proportional pressure relief cartridge pilot operated	2.3-529	60*
BVBPM22	Proportional pressure relief cartridge pilot operated, Ex-protection Ex d	2.3-536	60*
BVPPM22/ME	Proportional pressure relief cartridge pilot operated, with integrated electronics	2.3-537	60*
BDPPM22	Proportional pressure relief cartridge direct operated	2.3-539	25*
BDBPM22	Proportional pressure relief cartridge direct operated, Ex-protection Ex d	2.3-547	25*
BDIPM22	Proportional pressure relief cartridge direct operated, inverse	2.3-548	20*
BDPPM22/ME	Proportional pressure relief cartridge direct operated, with integrated electronics	2.3-561	25*
BDIPM22/ME	Proportional pressure relief cartridge direct operated, inverse, with integr. electronics	2.3-562	20*

Attention! * Can be different from the value on the data sheet of

the screw-in cartridge.

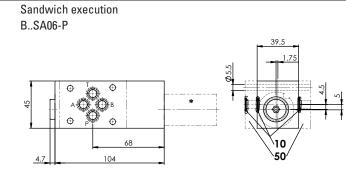


DIMENSIONS

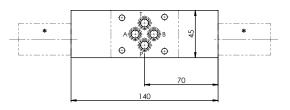


The distance plate ADP6 / ... (pos. 50) has to be ordered separately for the ex-protection solenoid

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Sandwich execution B..SA06-AB

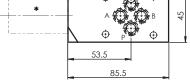


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B..SA06-B (cartridge on B-side)

Sandwich execution

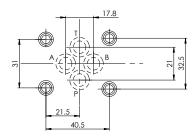
B..SA06-A



Note!

* The exterior dimensions or the cartridges can be obtained from the corresponding data sheets.

HYDRAULIC CONNECTION



PARTS LIST

PositionArticleDescription20238.2406Screw plug VSTI G1/4"-ED30173.3150Blanking plate NG6 ABP6 (only for flange)50173.345.Distance plate ADP6251.5916Seal kit B.PSA06Seal kit consisting of:100-ringID 9.25 x 1.78
30173.3150Blanking plate NG6 ABP6 (only for flange)50173.345.Distance plate ADP6251.5916Seal kit B.PSA06Seal kit consisting of:
50173.345.Distance plate ADP6251.5916Seal kit B.PSA06Seal kit consisting of:
251.5916 Seal kit B.PSA06 Seal kit consisting of:
Seal kit consisting of:
5
251.5917 Seal kit B.PPM22 251.5918 Seal kit B.PPM22-D1



ACCESSORIES

Proportional amplifier	Register 1.13			
Threaded subplates	Data sheet 2.9-30			
Multi-station subplates	Data sheet 2.9-60			
Module type manifold blocks	Data sheet 2.9-100			
Technical explanations	Data sheet 1.0-100			
Filtration	Data sheet 1.0-50			
Relative duty factor	Data sheet 1.1-430			

SURFACE TREATMENT

◆ The sandwich bodies are zinc-nickel coated.

SEALING MATERIAL

NBR or FKM (Viton) as standard, choice in the type code

STANDARDS

Mounting interface	ISO 4401-03
Protection class	EN 60 529
Contamination efficiency	ISO 4406

INSTALLATION NOTES

Mounting type	Flange or sandwich mounting 4 fixing holes for socket head screws or studs M5				
Mounting position	Any, preferably horizontal				
Tightening torque	Fixing screws M _p = 5,5 Nm (quality 8.8, zinc coated) Screw-in cartridge M _p = 60 Nm				

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