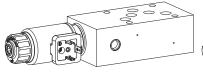
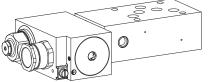


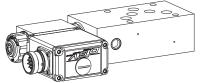
Proportional pressure relief valve Flange and sandwich construction

NG10 ISO 4401-05

• $p_{max} = 400 bar$







DESCRIPTION

Pilot operated proportional pressure relief valves NG10. Flange and sandwich construction according to ISO 4401-05 with 4 ports. Incorporated are proportional pressure relief cartridges size M22x1,5 according to ISO 7789. The flange and sandwich bodies made of steel are phosphatized.

FUNCTION

By adjusting the electric current to the proportional solenoid the operating pressure in hydraulic systems is limited by reliefing the fluid from the protected lines P, A, B or A and B to the return / tank line T. Back pressure in T influences the pressure in the reliefed pressure lines. This proportional pressure relief valves are adjustable very sensitivly. To control the valve proportional amplifiers are available from Wandfluh (see register 1.13).

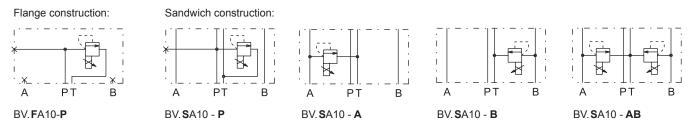
APPLICATION

The valves have their applications in hydraulic systems in which the pressure frequently has to be changed. The facility for remote control and signal processing from process control systems enable economical solutions to problems with repeatable sequences.

TYPE CODE							
			В		A10	-	#
Pressure relief valve							
2nd and 3rd digit position o	f the designation oc	I the built-in	cartridge				
Flange construction Sandwich construction		F					
International standard inter	face ISO, NG10						
Type list / Function	flange constru in P	ction P	sandwich cor in P in A in B in A and B	P A B AB			
Nominal pressure range, no	ominal voltage, etc.	, of the built-	in cartridge				
Design-Index (Subject to ch	nange)						

Examples: B V P F A10 – P – 20 – G24 / WD – HB4,5 B D B S A10 – A – 100 – G12 / L15 B N I S A10 – B – 200 – G24 / KD – D1 B V P S A10 – AB – 350 – G12 / ME A1 R1

TYPE LIST / FUNCTION





SCREW-IN CARTRIDGES INSTALLED

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

Туре	Designation	Data sheet no.	Q_{max}^{*}
BVPPM22	pilot operated	2.3-529	100 l/min
BNIPM22	pilot operated, inverse	2.3-533	100 l/min
BVBPM22	pilot operated, explosion proof Ex d	2.3-536	100 l/min
BVPPM22/ME	pilot operated, with integrated electronics	2.3-537	100 l/min
BDPPM22	direct operated	2.3-539	25 I/min
BDBPM22	direct operated, explosion proof Ex d	2.3-547	25 I/min
BDPPM22/ME	direct operated, with integrated electronics	2.3-561	25 l/min

^{*} Can deviate from the values on the data sheets of the screw-in cartridges.

GENERAL SPECIFICATIONS

Description Pilot operated proportional

pressure relief valve

Nominal size NG10 according to ISO 4401-05

Constructions Flange or sandwich Operations Proportional solenoid

Mounting 4 fixing holes for socket head cap screws

M6 or studs M6

Connections Threaded connection plates

Multi-flange subplates Longitudinal stacking system

Weight: • Flange type m = 2,34 kg (without screw-in cartridge) • Sandwich type P, A, B m = 1,70 kg

• Sandwich type AB m = 1,94 kg



REMARK!

Detailed performance data and additional hydraulic and electric specifications may by drawn from the data sheets of the corresponding installed screw-in cartridge.

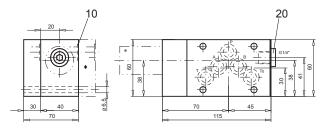


CAUTION!

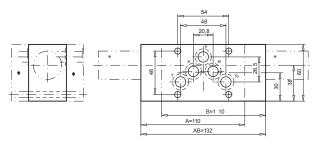
The performace data especially the "pressure-flow-characteristic," on the data sheets of the screw-in catridges refere to the screw-in cartridges only. The additional pressure drop of the flange body respectivly sandwich body must be taken into consideration.

DIMENSIONS

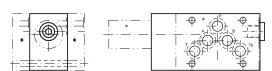
Flange construction



Sandwich construction in A, B or AB



Sandwich construction in P



- * The envelop dimensions of the screw-in cartridge are shown on their corresponding data sheets.
- Distance plate ADP10/... must be ordered separatly.

PARTS LIST

Position	Article	Description
10	160.2140	O-ring ID 14,00 x 1,78 (NBR)
20	238.2406	Plug VSTI G1/4"-ED

ACCESSORIES

Proportional amplifier register 1.13

Distance plate ADP10/29,5 (29,5 mm) art. no. 173.4456

Technical explanation see data sheet 1.0-100