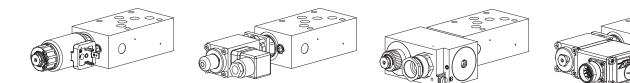


# Proportional pressure relief valve

Flange and sandwich construction

• p<sub>max</sub> = 400 bar

**NG10** ISO 4401-05



### 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).

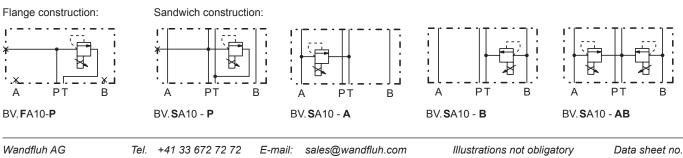
### APPLICATION

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	V		A10 ·	-	-		#
Pressure relie	ef valve										
Pilot operated	I										
	nverse explosion proof, exe vith integrated electi		P I B V								
Flange constr Sandwich cor			F								
International s	standard interface IS	SO, NG10									
Type list / Fur		ange construction I P	Ρ	sandwich con in P in A in B in A and B	structior P A B A						
Nominal pres	sure levels, nominal	voltage, etc.: see	data sheet o	of the installed	screw-ir	n cartrie	dges				
E	3VISA10-A- 160	-G24 / WD – D1 – G12 – G24 / L15 – 12 A1									
Design-Index	(Subject to change)									_	

### **TYPE LIST / FUNCTION**



Postfach CH-3714 Frutigen Fax +41 33 672 72 12

Internet: www.wandfluh.com

Data subject to change

2.3-760E 1/2 Edition 11 26



### 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 <sub>max</sub> *
BVPPM22 BVPPM22** BVIPM22 BVCPM22** BVBPM22 BVBPM22** BVVPM22	pilot operated pilot operated pilot operated, inverse pilot operated, explosion proof EEx em pilot operated, explosion proof Ex d pilot operated, explosion proof EEx d pilot operated, with integrated electronics	2.3-529 2.3-530 2.3-532 2.3-534 2.3-536 2.3-535 2.3-535 2.3-531	100 I/min 100 I/min 100 I/min 100 I/min 100 I/min 100 I/min 100 I/min

Can deviate from the values on the data sheets of the screw-in cartridges. \*\*

Do not use anymore for new applications.

## **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!**

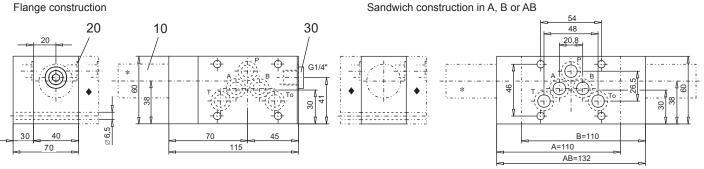
Detailed performance data and additional hydraulic and electric specifications may by drawn from the data sheets of the corresponding installed screw-in cartridge.



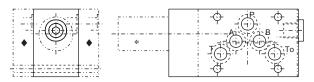
## CAUTION!

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



### 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	609.3	Screw-in cartridge
20	160.2140	O-ring ID 14,00x1,78
30	238.2406	Plug VSTI G1/4"-ED (only flange and sandwich type in P)

## ACCESSORIES

Proportional amplifier

register 1.13

Distance plate ADP10/18 (18 mm)

art. no. 173.4450

Technical explanation see data sheet 1.0-100

### Wandfluh AG Postfach CH-3714 Frutigen