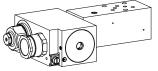


Proportional pressure relief valve Flange and sandwich construction

NG4-Mini®

• $p_{max} = 400 bar$







DESCRIPTION

Pilot and direct operated proportional pressure relief valves NG4-Mini. Flange and sandwich construction according to Wandfluh standard 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).

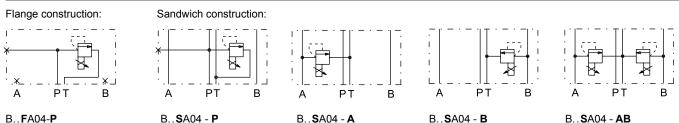
APPLICATION

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. NG4-Mini valves are used where both, reduced dimensions and weight are important.

TYPE CODE						
		В		A04	-	#
Pressure relief valve						
2nd and 3rd digit position of	of the designation od the built-in	cartridge				
Flange construction Sandwich construction	FS					
Mounting interface acc. to	Wandfluh standard, NG4-Mini					
Type list / Function	flange construction in P 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 cl	hange)				·	

Examples: B V P F A04 – P – 20 – G24 / WD – HB4,5 B D B S A04 – A – 100 – G12 / L15 B N I S A04 – B – 200 – G24 / KD – D1 B V P S A04 – 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	20 I/min
BNIPM22	pilot operated, inverse	2.3-533	20 I/min
BVBPM22	pilot operated, explosion proof Ex d	2.3-536	20 I/min
BVPPM22/ME	pilot operated, with integrated electronics	2.3-537	20 I/min
BDPPM22	direct operated	2.3-539	20 l/min
BDIPM22	direct operated, inverse	2.3-548	20 l/min
BDBPM22	direct operated, explosion proof Ex d	2.3-547	20 l/min
BDPPM22/ME	direct operated, with integrated electronics	2.3-561	20 l/min
BDIPM22/ME	direct operated, inverse, with integrated electronic	s 2.3-562	20 l/min

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

GENERAL SPECIFICATIONS

Description Pilot and direct operated proportional

pressure relief valve Nominal size

NG4-Mini according to Wandfluh standard

Constructions Flange or sandwich
Operations Proportional solenoid

Mounting 3 fixing holes for socket head cap screws

M5 or studs M5

Connections Threaded connection plates Multi-flange subplates

Longitudinal stacking system

Weight: • Flange type m = 1,15 kg (without screw-in cartridge) • Sandwich type P, A, B m = 0,96 kg

tridge) • Sandwich type P, A, B m = 0,96 kg • Sandwich type AB m = 1,24 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.

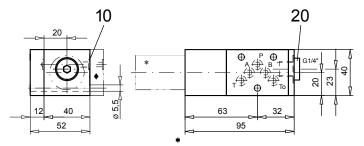


CAUTION!

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.

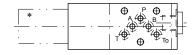
DIMENSIONS

Flange construction

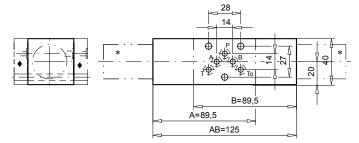


Sandwich construction in P





Sandwich construction in A, B or AB



- The envelop dimensions of the screw-in cartridge are shown on their corresponding data sheets.
- Distance plate BDP4/... must be ordered separatly.

PARTS LIST

Position	Article	Description
10	160.2052	O-ring ID 5,28x1,78 (NBR)
20	238.2406	Plug VSTI G1/4"-ED

ACCESSORIES

Proportional amplifier	register 1.13
Distance plate BDP4/12 (12 mm) Distance plate BDP4/20 (20 mm) Distance plate BDP4/30 (30 mm)	art. no. 173.1450 art. no. 173.1451 art. no. 173.1452

Technical explanation see data sheet 1.0-100