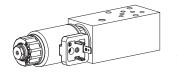
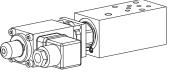


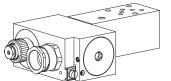
Proportional pressure relief valve Flange and sandwich construction

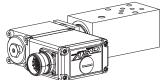
NG4-Mini®

• $p_{max} = 400 bar$









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

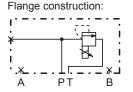
By adjusting the electric current to the proportional solenoid the operating pressure in hydraulic systems is limited by reliefing the fluid from the protected lines P, A, B or A and B to the return / tank line T. Back pressure in T influences the pressure in the reliefed pressure lines. This proportional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

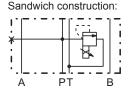
APPLICATION

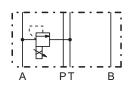
The valves have their applications in hydraulic systems in which the pressure frequently has to be changed. The facility for remote control and signal processing from process control systems enable economical solutions to problems with repeatable sequences. NG4-Mini valves are used where both, reduced dimensions and weight are important.

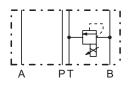
TYPE CODE A04 -# Pressure relief valve V D Pilot operated Direct operated Р Proportional Proportional inverse В Proportional explosion proof, execution Ex d Proportional with integrated electronics Proportional inverse with integrated electronics (only direct operated) Flange construction Sandwich construction Mounting interface acc. to Wandfluh standard, NG4-Mini Type list / Function: flange construction sandwich construction in P in P in A in R in A and B Nominal pressure levels, nominal voltage, etc.: see data sheet of the installed screw-in cartridges BVPFA04-P- 20-G24 / WD-D1 Examples: BDISA04-A-160-G12 BVBSA04-B- 350-G24 / L15 BVVSA04-AB-200-12 A1 Design-Index (Subject to change)

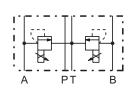
TYPE LIST / FUNCTION











B.. FA04-P

B..**S**A04 - **P**

B..**S**A04 - **A**

B.. **S**A04 - **B**

B.. SA04 - AB

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E-mail: sales@wandfluh.com Internet: www.wandfluh.com Illustrations not obligatory
Data subject to change

Data sheet no. **2.3-720E** 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_{max}^{*}
BVPPM22	pilot operated	2.3-529	20 I/min
BVPPM22**	pilot operated	2.3-530	20 I/min
BVIPM22	pilot operated, inverse	2.3-532	20 I/min
BVCPM22**	pilot operated, explosion proof EEx em	2.3-534	20 I/min
BVBPM22	pilot operated, explosion proof Ex d	2.3-536	20 I/min
BVBPM22**	pilot operated, explosion proof EEx d	2.3-535	20 I/min
BVVPM22	pilot operated, with integrated electronics	2.3-531	20 I/min
BDPPM22	direct operated	2.3-539	20 I/min
BDPPM22**	direct operated	2.3-540	20 I/min
BDIPM22	direct operated, inverse	2.3-542	20 I/min
BDCPM22**	direct operated, explosion proof EEx em	2.3-544	20 I/min
BDBPM22	direct operated, explosion proof Ex d	2.3-547	20 I/min
BDBPM22**	direct operated, explosion proof EEx d	2.3-545	20 I/min
BDVPM22	direct operated, with integrated electronics	2.3-541	20 I/min
BDWPM22	direct operated, inversé, with integrated electronics	2.3-543	20 I/min

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

Pilot and direct operated proportional

NG4-Mini according to Wandfluh standard

3 fixing holes for socket head cap screws

Do not use anymore for new applications.

GENERAL SPECIFICATIONS

Description

pressure relief valve

Nominal size

Constructions

Operations Mounting

M5 or studs M5

Connections

Weight:

(without screw-in cartridge)

Longitudinal stacking system · Flange type

Flange or sandwich

Proportional solenoid

Multi-flange subplates

· Sandwich type P, A, B

Threaded connection plates

m = 0.96 kg Sandwich type AB m = 1,24 kg

m = 1,15 kg



REMARK!

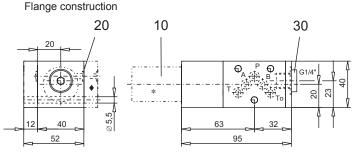
Detailed performance data and additional hydraulic and electric specifications may by drawn from the data sheets of the corresponding installed screw-in cartridge.



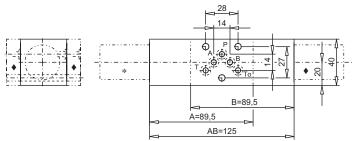
CAUTION!

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 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 BDP4/... must be ordered separatly.

PARTS LIST

Position	Article	Description
10	609.3	Screw-in cartridge
20	160.2052	O-ring ID 5,28x1,78
30	238.2406	Plug VSTI G1/4"-ED (only flange and sandwich type in P)

ACCESSORIES

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

Technical explanation see data sheet 1.0-100