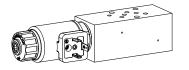
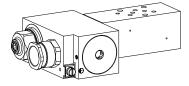


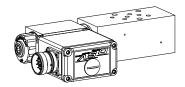
Proportional pressure reducing valve Flange and sandwich construction

• p_{max}= 400 bar

NG4-Mini®







DESCRIPTION

Pilot operated proportional pressure reducing 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 steel bodies for flange constructions are painted with a two component painting and the bodies for sandwich constructions are phosphatized.

FUNCTION

By adjusting the electric current to the proportional solenoid the pressure in the controlled port will be changed proportionally to the solenoid current. A pressure rise in the controlled port above the adjusted value, caused e.g. by an active oil consumer, will be prevented by reliefing excessive flow to the tank line T. This proportional pressure reducing 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 in a consumer has to remain constant at the adjusted value independently of pressure fluctuations on the supply side. 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						
			M	A04 -	-	#
Pressure reducing valve						
2nd and 3rd digit position of	of the designation od the built-in ca	artridge				
Flange construction Sandwich construction	FS					
Mounting interface acc. to	Wandfluh standard, NG4-Mini					
Type list / Function	flange construction $P \rightarrow A$ P/A	sandwich in P in A in B	construction P A B			
Nominal pressure range, n	ominal voltage, etc., of the built-in	cartridge				
Design-Index (Subject to c	hange)					
Examples: MVPFA04-F	P/A-[100-G24 / WD-D1					

GENERAL SPECIFICATIONS

Description Pilot operated proportional

pressure reducing valve

200-G12 / L15 / IN

350-G24 / MEA1 - HB0

Nominal size NG4-Mini according to Wandfluh standard

Constructions Flange or sandwich
Operations Proportional solenoid

MVBSA04-A-MQPSA04-B-

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 = 1,23 kg (without screw-in cartridge) • Sandwich type m = 1,24 kg



SCREW-IN CARTRIDGES INSTALLED

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

Туре	Designation L	Data sheet no.	Q_{max}^{*}
MVPPM22	pilot operated	2.3-629	20 Î/min
MQPPM22	pilot operated from connection P	2.3-641	20 I/min
MVBPM22	pilot operated, explosion proof Ex d	2.3-635	20 I/min
MVPPM22/ME	pilot operated, with integr.atedelectron	nics 2.3-632	20 I/min
MQPPM22/ME	pilot operated from connection P,	2.3-643	20 I/min
	with integrated electronics		



REMARK!

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

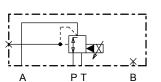


CAUTION!

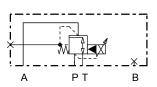
The performace data especially the "pressureflow-characteristic,, on the data sheets of the screw-in catridges refere to the screw-in cartridges only. The additional press-ure drop of the flange body respectivly sandwich body must be taken into consideration.

TYPE LIST / FUNCTION

Flange construction:

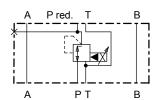


MV. FA04-P/A

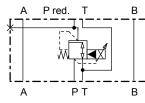


MQ.FA04-P/A

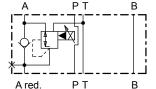
Sandwich construction:



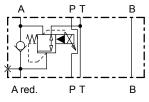
MV. SA04 - P



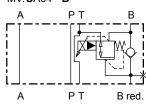
MQ. SA04 - P MQ. SA04 - A



MV. SA04 - A



MV. SA04 - B



РΤ

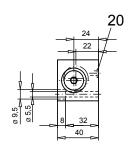
B red.

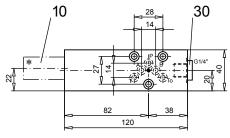
MQ. SA04 - B

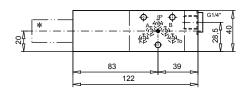
DIMENSIONS

Flange construction

Sandwich construction in A or B

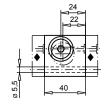


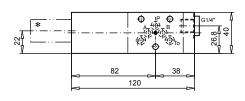




Sandwich construction in P

For sandwich red. pressure in B cartridge is located on B-side.





- 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	617.3	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

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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				

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Illustrations not obligatory Data subject to change

^{*} Can deviate from the value on the data sheets of the screw-in cartridges. ** Do not unse anymore for new applications.