

Proportional pressure reducing valve Flange and sandwich construction

- Pilot operated
- Q_{max} = 8 l/min
- p_{max}
- = 315 bar

DESCRIPTION

Pilot operated proportional pressure reducing valves NG3-Mini. Flange and sandwich construction according to Wandfluh standard with 4 ports. Incorporated are proportional pressure reducing cartridges size M18x1,5 according to Wandfluh standard. Adjustment by Wandfluh proportional solenoids (Standard VDE 0580). The flange body and the sandwich plates made of steel are painted or zinc-nickel coated.



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).

NG3-Mini



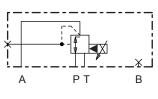
The valves have their applications in hydraulic systems in which the pressure in a consumer has to remain constant at the adjusted value independently of pressure fluctuations on the supply side. The facility for remote control and signal processing from process control systems enable economical solutions to problems with repeatable sequences. NG3-Mini valves are used where both, reduced dimensions and weight are important.



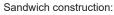
				ΜV	Ρ	A03	-	-		-		#
Pressure reducing valve												
Pilot operated												
Proportional												
Flange construction Sandwich construction	F S											
Mounting interface acc. to Wa	ndfluh standard, N	IG3-Mini										
Type list / Function	flange construct from $P \rightarrow A$	tion P/A	sandwich cons in P in A	struction P A								
Nominal pressure range p _{N red}	20 bar 100 bar 200 bar 315 bar	20 100 200 315						1				
Nominal voltage U_{N}	12 VDC 24 VDC	G12 G24							1			
Design-Index (Subject to chan	ge)										-	

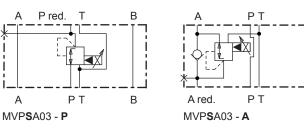
TYPE LIST / FUNCTION

Flange construction:



MVPFA03-P/A





E-mail: sales@wandfluh.com Internet: www.wandfluh.com

R

В



SCREW-IN CARTRIDGES INSTALLED

Designation

Pressure reducing valve pilot operated, proportional

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

GENERAL	SPECIF	ICATIONS
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Description	Pilot operated proportional				
	pressure reducing valve				
Nominal size	NG3-Mini according to Wandfluh standard				
Constructions	Flange or sandwich				
Operations	Proportional solenoid				
Mounting	3 fixing holes for socket head cap screws				
	M4 or studs M4				
Connections	Threaded connection plates				
	Multi-flange subplates				
	Longitudinal stacking system				
Ambient temperature	-2050°C				
Mounting position	any				
Weight:	 Flange type 	m = 0,14 kg			
(without screw-in cartridge)	 Sandwich type P 	m = 0,19 kg			
	 Sandwich type A 	m = 0,26 kg			
	•••	-			

HYDRAULIC SPECIFICATIONS

Fluid	Mineral oil, other fluid on request	\sim	REMARK!
Contamination	ISO 4406:1999, class 18/16/13		Detailed per
efficiency	(Required filtration grade ß 6…10≥75)		electric speci
5	see data sheet 1.0-50/2	•	the correspo
Viscosity range	12 mm ² /s…320 mm ² /s		
Fluid temperature	-20+70°C		
•		•	CAUTION!
Peak pressure	p _{max} = 315 bar		
Volume flow range	Q = 08 l/min		The performation
-			racteristic,,
			refere to the s

Data sheet no.

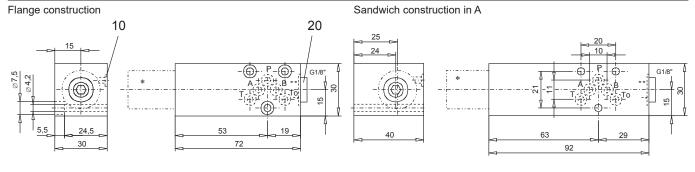
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rformance data and additional hydraulic and cifications may by drawn from the data sheets of onding installed pressure reducing cartridge.

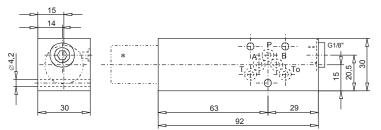
nace data especially the "pressure-flow-chaon the data sheets of the screw-in catridges refere to the screw-in cartridges only. The additional pressure drop of the flange body respectivly sandwich body must be taken into consideration.

DIMENSIONS

Type M**VP**PM18



Sandwich construction in P



The envelop dimensions of the screw-in cartridge are * shown on their corresponding data sheets.

PARTS LIST

Position	Article	Description
10	160.2045	O-ring ID 4,5 x 1,5 (NBR)
20	238.1405	Plug VSTI G1/8"-ED

ACCESSORIES

Proportional amplifier

register 1.13

Technical explanation see data sheet 1.0-100

Wandfluh AG Postfach CH-3714 Frutigen