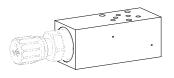


Pressure relief valve

Flange- or Sandwich construction

- ◆ pilot or direct operated
- ightharpoonup p_{max} = 400 bar
- ◆ p_{N max} = 350 bar
 ◆ 0_{max} = 30 l/min

NG4-Mini Wandfluh standard



DESCRIPTION

Pilot or direct operated pressure relief valve in flange or sandwich construction. When the adjusted operating pressure is reached, the main spool opens and connects the protected line with the drain to the tank. For flange or sandwich executions with pressure relief in port P, there is a manometer connection.

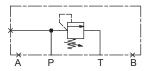
APPLICATION

For the limitation of the operating pressure in hydraulic systems by reliefing the oil from the secured oil line P (1), A (2), B (3) to output / tank line T (4). Miniature values are used where both, reduced dimensions and weight are important.

SYMBOL

Flange execution

B..FA04-P

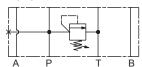




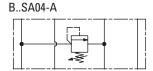
- ◆ Direct operated execution drawn
- ◆ All variants are also available pilot operated

Sandwich execution

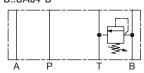
B..SA04-P



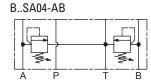
Sandwich execution



Sandwich execution B..SA04-B



Sandwich execution



GENERAL SPECIFICATIONS

Designation	Pressure relief valve		
Construction	Direct or pilot operated		
Mounting	Flange- or Sandwich construction		
Nominal size	NG4-Mini according to Wandfluh standard		
Actuation	Manually		
Ambient temperature	-25+70 °C		
Weight	1,35 kg (Flange construction) 1,15 kg (Sandwich construction P, A, B) 1,60 kg (Sandwich construction AB)		

ACTUATION

Actuation S = lockable key adjustment D = lockable knob adjustment

Note!

Other specifications, see data sheet of the screw-in cartridges



TYPE CODE							
				ВППГ	A04 -	— - —	- #
Pressure relief valve							T T
Direct operated Pilot operated		A V					
Type of adjustment	Key Control knob Cover	S D A					
Flange construction Sandwich construction		F S					
Mounting interface accord	ing to Wandfluh stand	ard, NG4-Mini					
Type list / Function	Flange constructi in P	on Sandwich cor P in P in A in B in A and B	P A B AB				
Nominal pressure range (p	_N) of the screw-in cart	ridges					
Sealing material	NBR FKM (Viton)	 D1					
Design index (subject to ch	nange)						
2.1-620						<u> </u>	

HYDRAULIC SPECIFICATIONS

Working pressure	p _{max} = 400 bar
Nominal pressure range	P _{N max} A: 63, 210, 315 bar V: 63, 160, 350 bar
Maximum volume flow	Ω _{max} = 30 l/min
Fluid	Mineral oil, other fluid on request
Viscosity range	12 mm²/s320 mm²/s
Temperature range fluid	-25+70 °C (NBR) -20+70 °C (FKM)
Contamination efficiency	Class 18 / 16 / 13
Filtration	Required filtration grade $\& 610 \ge 75$, see data sheet 1.0-50

Note!

Other specifications, see data sheet of the screw-in cartridges

ACCESSORIES

Verstellarten für Schraubpatrone	Data sheet 2.0-50
Threaded subplates	Data sheet 2.9-40
Multi-station subplates	Data sheet 2.9-70
Horizontal mounting blocks	Data sheet 2.9-110
Technical explanations	Data sheet 1.0-100
Filtration	Data sheet 1.0-50

PERFORMANCE SPECIFICATIONS

Note!

Detailed performance limites and additional hydraulic specifications may by drawn from the data sheets of the corresponding installed pressure relief cartridge.

Attention!



The performance data especially the "pressure-flowcharacteristic," 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.

SEALING MATERIAL

NBR or FKM (Viton) as standard, choice in the type code

SURFACE TREATMENT

- ◆ The flange body is painted with a two component paint
- ◆ The sandwich bodies are zinc-nickel coated



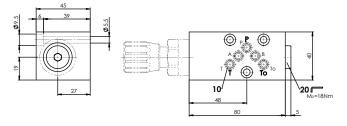
VALVES INSTALLED

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

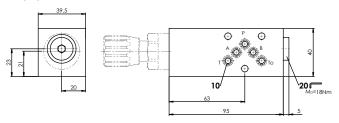
Article	Description	Data sheet no.
BV.PM22	Pressure relief cartridge pilot operated	2.1-530
BA.PM22	Pressure relief cartridge direct operated	2.1-540

DIMENSIONS

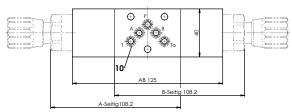
Flange execution B.DFA04-P



Sandwich execution B.DSA04-P

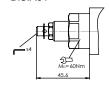


Sandwich execution B.DSA04-A / B / AB



B.DSA04-A: Cartridge on A side B.DSA04-B: Cartridge on B side B.DSA04-AB: Cartridge on A and B side

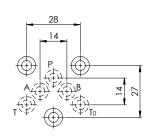
Type of adjustment B.S.A04



Type of adjustment B.A.A04



HYDRAULIC CONNECTION



PARTS LIST

Position	Article	Description
10	160.2052	O-ring ID 5,28 x 1,78 (NBR)
	160.6052	O-ring ID 5,28 x 1,78 (FKM)
20	238.2406	Screw plug VSTI G1/4"-ED

STANDARDS

Mounting interface	Wandfluh standard
Contamination	ISO 4406
efficiency	

INSTALLATION NOTES

Mounting type	Flange or sandwich mounting 3 fixing holes for socket head screws or studs M5
Mounting position	Any, preferably horizontal
Tightening torque	Fixing screws $M_D = 5.2 \text{ Nm}$ (quality 8.8, zinc coated) Screw-in cartridge $M_D = 60 \text{ Nm}$

Wandfluh AG Postfach CH-3714 Frutigen
Tel. +41 33 672 72 72 Fax +41 33 672 72 12 sales@wandfluh.com