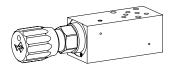


Pressure relief valve

Flange- or Sandwich construction

- ◆ pilot or direct operated
- ightharpoonup p_{max} = 400 bar
- ightharpoonup p_{N max} = 350 bar
- \bullet $\Omega_{max} = 8 \text{ I/min}$

NG3-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.

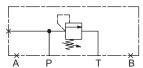
APPLICATION

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..FA03-P

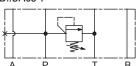




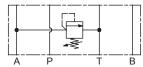
- ◆ Direct operated execution drawn
- ◆ All variants are also available pilot operated

Sandwich execution

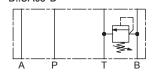
B..SA03-P



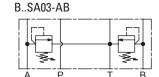
Sandwich execution B..SA03-A



Sandwich execution B..SA03-B



Sandwich execution



GENERAL SPECIFICATIONS

Designation	Pressure relief valve
Construction	Direct or pilot operated
Mounting	Flange- or Sandwich construction
Nominal size	NG3-Mini according to Wandfluh standard
Actuation	Manually
Ambient temperature	-25+70 °C (NBR) -20+70 °C (FKM)
Weight	0,8 kg (Flange construction) 0,6 kg (Sandwich construction P, A, B) 0,7 kg (Sandwich construction AB)

ACTUATION

Actuation S = lockable key adjustmentD = lockable knob adjustment

Note!

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

STANDARDS

Mounting interface	Wandfluh standard
Contamination	ISO 4406
efficiency	

SURFACE TREATMENT

◆ The flange and sandwich bodies are zinc-nickel coated



TYPE CODE												
					В		A03	8 - 🗀	- [- [# [$\overline{}$
Pressure relief valve					J T	ĪĪ	_			Ī		Ī
Direct operated Pilot operated		S										
Type of adjustment	Key Control knob Cover	S D A										
Flange construction Sandwich construction		F										
Mounting interface acc. to W	/andfluh standard, N	IG3-Mini										
Type list / Function	flange construction P	on P	sandwich constructin P in A in B in A and B	P A B AB								
Nominal pressure range p_N	pilot operated 63 bar 160 bar 350 bar	63 160 350	direct operated 63 bar 160 bar 315 bar	63 160 315								
Sealing material	NBR FKM (Viton)	D1										

HYDRAULIC SPECIFICATIONS

cartridges

Design index (subject to change)

Working pressure	p _{max} = 400 bar			
Nominal pressure range	P _{N max} = S: 63, 160, 315 bar V: 63, 160, 350 bar			
Maximum volume flow	$\begin{aligned} & \textbf{pilot operated} \\ & \textbf{Q}_{\text{max}} = 8 \text{ l/min} \\ & \textbf{direct operated} \\ & \textbf{Q}_{\text{max}} = 5 \text{ l/min} \end{aligned}$			
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 $\[Beta]$ 610 \ge 75, see data sheet 1.0-50			
Note! Other specifications, see data sheet of the screw-in				

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



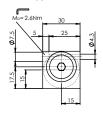
VALVES INSTALLED

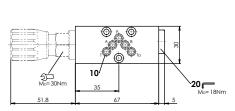
The following screw-in cartridges are used in either the flange body or the sandwich body.

Article	Description	Data sheet no.
BV.PM18	Pressure relief cartridge pilot operated	2.1-510
BS.PM18	Pressure relief cartridge direct operated	2.1-520

DIMENSIONS

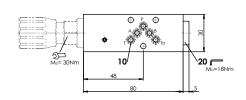
Flange execution B.DFA03-P



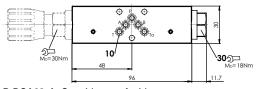


Sandwich execution B.DSA03-P

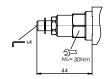




Sandwich execution B.DSA03-A / B / AB



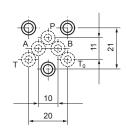
B.DSA03-A: Cartridge on A side B.DSA03-B: Cartridge on B side B.DSA03-AB: Cartridge on A and B side Type of adjustment B.S.A03



Type of adjustment B.A.A03



HYDRAULIC CONNECTION



PARTS LIST

Position	Article	Description
		O-ring ID 4,50 x 1,50 (NBR) O-ring ID 4,50 x 1,50 (FKM)
20	238.2406	Screw plug VSTI G1/4"-ED
30	239.3011	Screw plug M18 x 1,5

INSTALLATION NOTES

Mounting type	Flange or sandwich mounting 3 fixing holes for socket head screws or stud M4
Mounting position	Any, preferably horizontal
Tightening torque	Fixing screws $M_D = 2.6$ Nm (quality 8.8, zinc coated) Screw-in cartridge $M_D = 30$ Nm

ACCESSORIES

Verstellarten für Schraubpatronen	Data sheet 2.0-50
Threaded subplates	Data sheet 2.9-05
Multi-station subplates	Data sheet 2.9-45
Horizontal mounting blocks	Data sheet 2.9-85
Technical explanations	Data sheet 1.0-100
Filtration	Data sheet 1.0-50

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