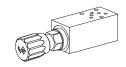


Back pressure valve Sandwich construction $Q_{max} = 8 I/min$

 $p_{max} = 315 bar$

NG3-Mini®



DESCRIPTION

Back pressure valves in direct or pilot operated versions for sandwich mounting. The valves are available in two types of adjustment and can be fixed. A cover is also available for key adjustment, see data sheet 2.0-50. Three pressure ranges are available. The sandwich bodies are in anodised aluminium.

FUNCTION

When pressure reaches the setting of the back pressure valve main spool will open up the oil

APPLICATION

Back pressure valves are applied where a back pressure in the outlet part of a cylinder or motor is necessairy to prevent uncontrolled movement. The fields of applications are in machine building, handling system and hydraulic power packs

TYPE CODE													
							G □		S	A 03 -	٦-	7 #	Г
Back pressure valve)						17	T	1		_	_	Ī
Direct operated Pilot operated		S					_						
Type of adjustment	Key	S											
	Control knob	D											
	Cover	D D											
Sandwich constructi	on												
Mounting interface a	acc. to Wandfluh	standard, N	G3-Mini										
Type list / function	in T	T	in A	Α									
	in A and B	AB	in B	В									
Pressure range P _N	Pilot operated		Dire	ct opera	ited								
	63 bar 6	3	63	bar	63								
	160 bar 16	0	160	bar	160								
			315	bar	315								
Design-Index (Subje	ect to change)												

GENERAL SPECIFICATIONS

Nominal size NG3-Mini according to Wandfluh standard Pilot- and direct operated back pressure valve Denomination Sandwich construction

Construction

3 holes for socket cap screws M4 Mounting

or studs screws M4

 M_D = 2,8 Nm (qual. 8.8) for fixing screws Fastening torque

M_D = 30 Nm for screw in cartridge Threaded connection plates

Multi-flange subplates Longitudial stacking system

Mounting position any -20...+50°C Ambient temperature

Connections

Weight Depending on the type of

valves 0,30...0,85 kg

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.
B V. PM18	Pressure relief valve	
	 pilot operated 	2.1-510

BS.PM18 Pressure relief valve

 direct operated 2.1-520

HYDRAULIC SPECIFICATIONS

Mineral oil, other fluid on request Fluid Contamination efficiency ISO 4406:1999, class 18/16/13 (Required filtration grade ß 6...10≥75)

refer to data sheet 1.0-50 12 mm²/s...320 mm²/s

Viscosity range -20...+70°C Fluid temperature $p_{max} = 315 bar$ Peak pressure

Nominal pressure pilot operated: $p_{N} = 63 \text{ bar}, 160 \text{ bar}, 350 \text{ bar}$ direct operated: $p_N = 63 \text{ bar}, 160 \text{ bar}, 315 \text{ bar}$

Minimal Pressure Opening pressure over

non-return valve Max. Volume flow

> pilot operated: direct operated:

 $p_0 = 0.3 \, bar$

see characteristics

 $Q_{max} = 8 \text{ I/min}$ $Q_{max} = 5 \text{ I/min}$



REMARK!

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

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Illustrations not obligatory Data subject to change

Data sheet no. 2.1-700E 1/2 Edition 17 01





REMARK!

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

CAUTION!



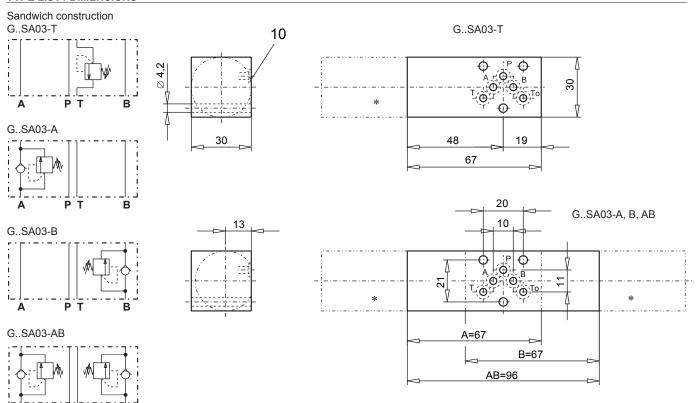
The performace data especially the "pressure-flow-characteristic.", on the data sheets of the screw-in catridges refere to the screw-in cartridges only. The additional pressure drop of the flange body respectivly sandwich body must be taken into consideration.

SCREW-IN CARTRIDGES INSTALLED

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

<i>Type</i> B V .PM18	Designation Pressure relief valve	Data sheet no.			
DV.I WITO	• pilot operated	2.1-510			
B S. PM18	Pressure relief valve • direct operated	2.1-520			

TYPE LIST / DIMENSIONS



 The exterior dimensions of the cartridges can be obtained from the corresponding data sheets 2.1-510 and 2.1-520.

PARTS LIST

Ρ

Position	Article	Description
10	160.2045	O-ring ID 4,5x1,5

Technical explanation see data sheet 1.0-100