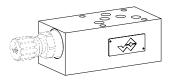


Back pressure valve

Sandwich construction

- pilot operated or direct operated
- ightharpoonup p_{max} = 400 bar
- ◆ p_{N max} = 350 bar
 ◆ Q_{max} = 100 l/min

NG10 ISO 4401-05



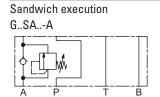
DESCRIPTION

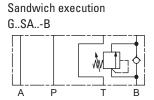
Pilot or direct operated backpressure valve in sandwich construction. The backpressure valve, also called pre-loading valve, opens the main spool when the adjusted pressure is reached.

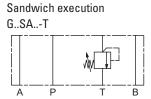
APPLICATION

Backpressure valves with pressure adjustment in A, B or T, are used for pre-loading of cylinders / motors, resp. for reaching a back pressure.

SYMBOL







Note!

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

TYPE CODE

005_				
				G S A10 # _
Back-pressure valve				
Direct operated Pilot operated		A V		
Type of adjustment	Key Control knob Cover	S D A		
Sandwich construction				
Mounting interface acc.	to ISO, NG10			
Type list / Function	in T in B	T in A	Α	
Nominal pressure range	(p _N) of the built-in scr	ew-in cartridge		
Sealing material	NBR FKM (Viton)	 D1		
Design index (subject to	change)			

2.1-760



GENERAL SPECIFICATIONS

Designation	Back pressure valve
Construction	Direct or pilot operated
Mounting	Sandwich construction
Nominal size	NG10 according to ISO 4401-05
Actuation	Manually
Ambient temperature	-25+70 °C
Weight	2,3 kg

HYDRAULIC SPECIFICATIONS

Working pressure	p _{max} = 400 bar
Nominal pressure	P _{N max}
range	A: 63, 210, 315 bar
	V: 63, 160, 350 bar
Minimum pressure	See characteristics
Maximum volume flow	0 _{max} = 100 l/min
Fluid	Mineral oil, other fluid on request
Viscosity range	12 mm²/s320 mm²/s
Temperature range	-25+70 °C (NBR)
fluid	-20+70 °C (FKM)
Contamination	Class 18 / 16 / 13
efficiency	
Filtration	Required filtration grade ß 6…10 ≥ 75, see data sheet 1.0-50



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

ACTUATION

Actuation S = lockable key adjustmentD = lockable knob adjustment



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

STANDARDS

Mounting interface	ISO 4401-05
Contamination	ISO 4406
efficiency	

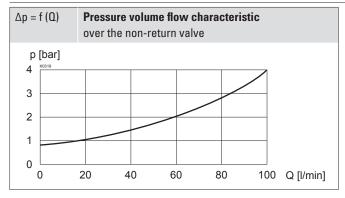
SEALING MATERIAL

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

SURFACE TREATMENT

◆ The sandwich bodies made of steel are zinc-phosphated

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 sandwich body must be taken into consideration.

VALVES INSTALLED

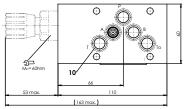
The following screw-in cartridges are used in the sandwich body.

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

Sandwich execution G.DSA10-A / B





G.DSA10-A: Cartridge on A side G.DSA10-B: Cartridge on B side

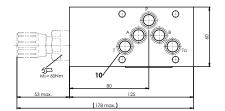
Type of adjustment G.SSA10



Type of adjustment G.ASA10

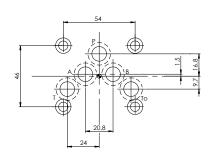


Sandwich execution G.DSA10-T





HYDRAULIC CONNECTION



PARTS LIST

Position	Article	Description
		O-ring ID 14,00 x 1,78 (NBR)
	160.6141	0-ring ID 14,00 x 1,78 (FKM)

ACCESSORIES

Types of adjustment for screw-in cartridges	Data sheet 2.0-50
Threaded subplates	Data sheet 2.9-40
Multi-station subplates	Data sheet 2.9-70
Module type manifold blocks	Data sheet 2.9-110
Technical explanations	Data sheet 1.0-100
Filtration	Data sheet 1.0-50

INSTALLATION NOTES

Mounting type	Sandwich mounting
	4 fixing holes for
	socket head screws or studs M6
Mounting position	Any, preferably horizontal
Tightening torque	Fixing screws $M_D = 8.9 \text{ Nm}$ (quality 8.8, zinc coated)
	Screw-in cartridge M _D = 60 Nm

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