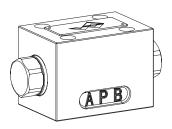


Spool valve

Flange construction

- ◆ hydraulically operated
- ◆ 4/2-way impulse execution detented
- ◆ 4/3-way with spring centred mid position
- ◆ 4/2-way with spring reset
- $\Omega_{\text{max}} = 80 \text{ l/min}$ $p_{\text{max}} = 350 \text{ bar}$

NG₆ ISO 4401-03-03



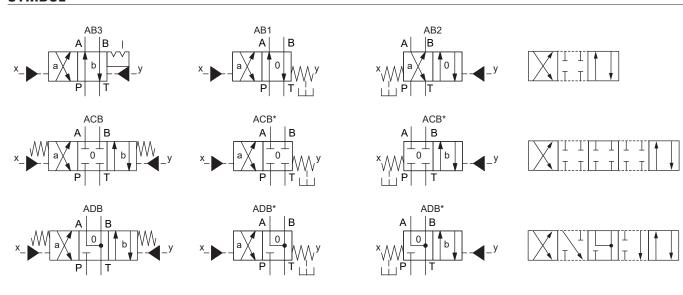
DESCRIPTION

Direct operated spool valve hydraulically operated via pilot port with 4 connections in a 5 chamber system. Spool detented or with spring reset. Without actuation, the spool is held in the center position by the spring (4/3), or switched back to the offset position (4/2). With the detent, the spool is held in the last switching position selected.

APPLICATION

Spool valves are mainly used for controlling direction of movement and stopping of hydraulic cylinders and motors.

SYMBOL



^{*} These 4/2-way valves with spring reset are being delivered as 4/3-way valves.



When the pilot ports are not actuated (without pressure), or not needed, the leakage oil must be discharged.

GENERAL SPECIFICATIONS

Designation	4/2-, 4/3-spool valve
Construction	Direct operated
Mounting	Flange construction
Nominal size	NG6 to ISO 4401-03-03
Actuation	Hydraulically operated
Ambient temperature	-25+70 °C
Weight	1,1 kg
MTTFd	150 years

ACTUATION

Actuation	Hydraulically operated
Pilot pressure	p _{min} = 15 bar p _{max} = 280 bar
	V = 0,34 cm ³



т١	/D	r	n	n	С
11	/P	U	v	υ	c

			WF F F	A06 -	-	— - [# [
Spool valve, direct operated							T
Hydraulically actuated							
Flange construction							
International standard interface ISO, NG6							
Designation of symbols acc. to table							
Pilot oil	sideways via mounting interface	se ae					
Sealing material	NBR FKM (Viton) NBR 872	D1 [y-Z604]					
Design index (subject to change)							
1.7-32							

HYDRAULIC SPECIFICATIONS

Working pressure	p _{max} = 350 bar
Tank pressure	p _{T max} = 200 bar Resp. 15 bar lower than the control pressure
Maximum volume flow	$Q_{max} = 80$ l/min, see characteristics
Leakage oil	See characteristics
Fluid	Mineral oil, other fluid on request
Viscosity range	12 mm²/s320 mm²/s
Temperature range fluid	-20+70 °C (NBR) -20+70 °C (FKM)
Contamination efficiency	Class 20 / 18 / 14
Filtration	Required filtration grade ß 1016 ≥ 75, see data sheet 1.0-50

STANDARDS

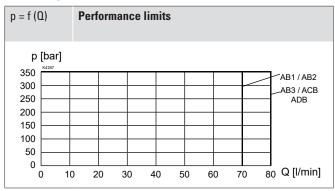
Mounting interface	ISO 4401-03-03
Contamination	ISO 4406
efficiency	

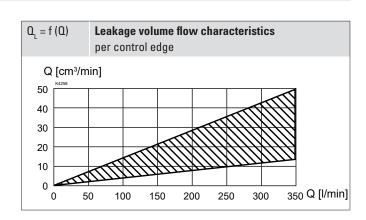
ACCESSORIES

Fixing screws	Data sheet 1.0-60
Threaded subplates	Data sheet 2.9-30
Multi-station subplates	Data sheet 2.9-60
Horizontal mounting blocks	Data sheet 2.9-100
Technical explanations	Data sheet 1.0-100
Filtration	Data sheet 1.0-50

PERFORMANCE SPECIFICATIONS

Oil viscosity υ = 30 mm²/s

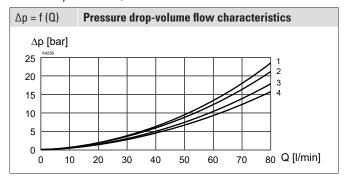






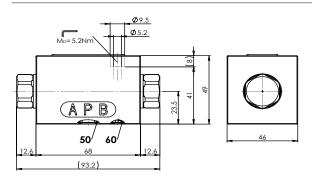
PERFORMANCE SPECIFICATIONS

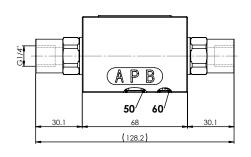
Oil viscosity $\upsilon = 30 \text{ mm}^2/\text{s}$



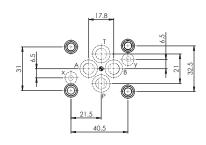
	Volume flow direction				
Symbol	P - A	P - B	P - T	A - T	B - T
AB1 / AB2	2	2	-	3	3
AB3	1	1	-	2	2
ACB	2	2	-	3	3
ADB	2	2	-	4	4

DIMENSIONS





HYDRAULIC CONNECTION



PARTS LIST

Position	Article	Description
10	251.2225	Seal kit
		Seal kit consisting of
50	0-Ring	Seal kit consisting of ID 9,25 x 1,78

INSTALLATION NOTES

Mounting type	Flange mounting 4 fixing holes for socket head screws M5 x 50
Mounting position	Any, preferably horizontal
Tightening torque	Fixing screws $M_D = 5.2 \text{ Nm}$ (screw quality 8.8, zinc coated)

Note! The length of the fixing screw depends on the base material of the connection element.

SURFACE TREATMENT

The valve body, the screw plug and the bush are zinc-nickel coated

ISO 9227 (800 h) salt spray test

SEALING MATERIAL

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

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