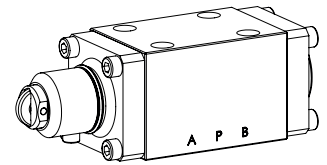


Spool valve stainless

Flange construction

- ◆ roller operated
- ◆ 4/2-way with spring reset
- ◆ $Q_{max} = 60$ l/min
- ◆ $p_{max} = 350$ bar

NG6

ISO 4401-03


DESCRIPTION

Direct operated valve, roller operated with 4 connections in 5 chamber design. Without actuation, the spool is switched back to the offset position.

APPLICATION

Spool valves are mainly used for controlling direction of movement and stopping of hydraulic cylinders and motors. The stainless execution is especially suitable for the use in wet and salty environment. Manually or mechanically operated valves are particularly suitable for use in installations where no electric current is available or for applications in explosion hazard areas.

TYPE CODE

Spool valve, direct operated		WD	T	F	A06	-		-		K9	#	
Roller with spring reset												
Flange construction												
International standard interface ISO, NG6												
Designation of symbols acc. to table	Operation a-side											
	Operation b-side											
Sealing material	NBR											
	FKM (Viton)											
	NBR 872											
Stainless												
Design index (subject to change)												

1.5-46S

GENERAL SPECIFICATIONS

Designation	4/2-spool valve
Construction	Direct operated
Mounting	Flange construction
Nominal size	NG6 according to ISO 4401-03
Actuation	Roller actuated
Ambient temperature	-25...+70 °C
Weight	1,48 kg
MTTFd	150 years

ACTUATION

Actuation	Roller
Actuation stroke	s = 2,6 mm
Actuation force	$F_b = 110 - 135$ N at p_{Tmax}

HYDRAULIC SPECIFICATIONS

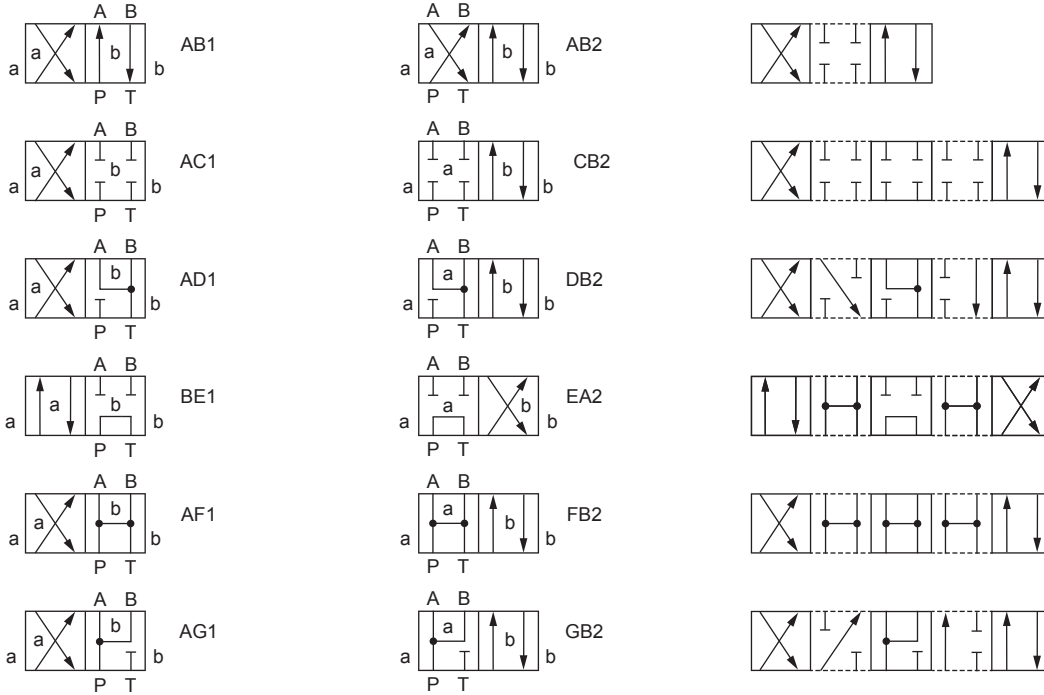
Working pressure	$p_{max} = 350$ bar
Tank pressure	$p_{Tmax} = 100$ bar
Maximum volume flow	$Q_{max} = 60$ l/min, see characteristics
Leakage oil	See characteristics
Fluid	Mineral oil, other fluid on request
Viscosity range	12 mm ² /s...320 mm ² /s
Temperature range fluid	-25...+70 °C (NBR) -20...+70 °C (FKM)
Contamination efficiency	Class 20 / 18 / 14
Filtration	Required filtration grade $\beta_{10...16} \geq 75$, see data sheet 1.0-50

SYMBOL

Overview valves

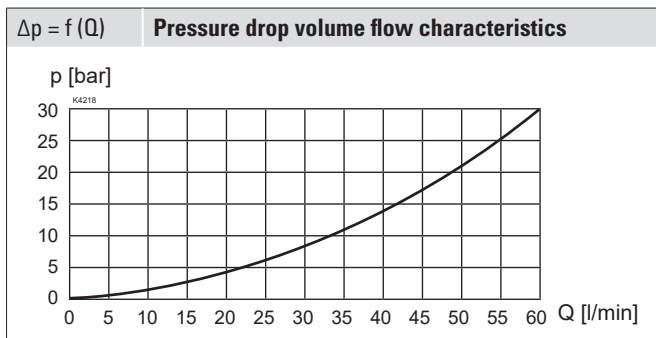
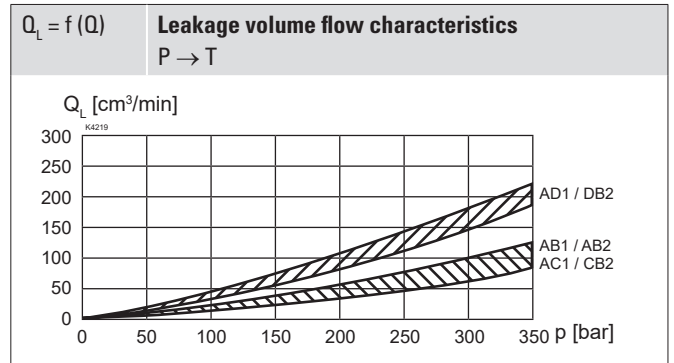
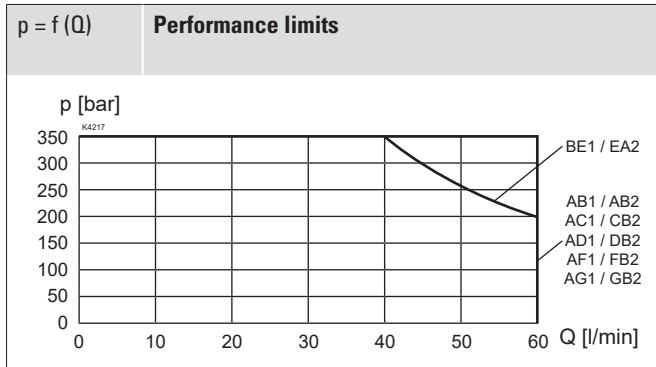


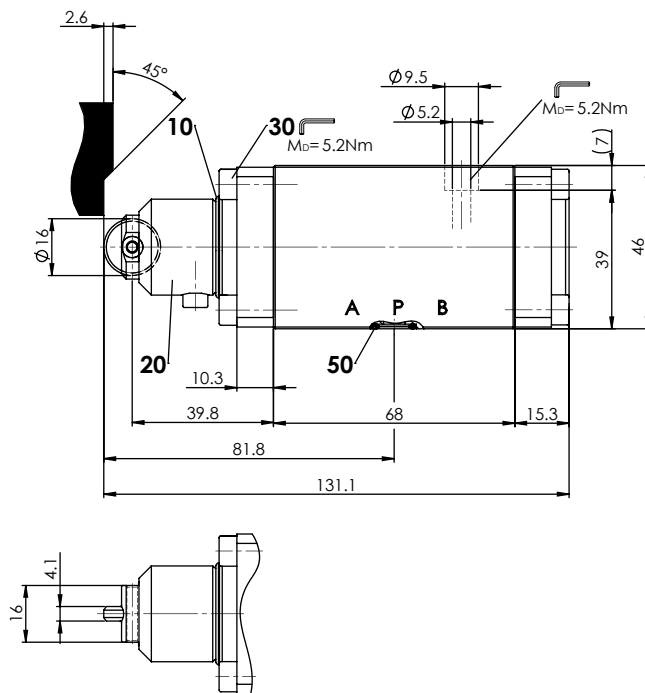
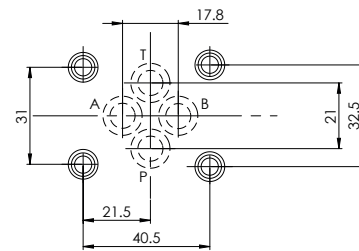
Overview spool types



PERFORMANCE SPECIFICATIONS

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



DIMENSIONS

HYDRAULIC CONNECTION

PARTS LIST

Position	Article	Description
10	160.8252	O-ring ID 25,12 x 1,78 (FKM)
20	253.6003	Mechanical control head ATII-K9
30	246.2516	Socket head screw M5 x 16 A4 DIN 912
50	160.2093	O-ring ID 9,25 x 1,78 (NBR)
	160.6092	O-ring ID 9,25 x 1,78 (FKM)

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

SEALING MATERIAL

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

STANDARDS

Mounting interface	ISO 4401-03
Contamination efficiency	ISO 4406

INSTALLATION NOTES

Mounting type	Flange mounting 4 fixing holes for socket head screws M5 x 45
Mounting position	Any, preferably horizontal
Tightening torque	Fixing screws $M_0 = 5,2 \text{ Nm}$ (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 cover, the roller housing and the socket head screws are made of stainless steel