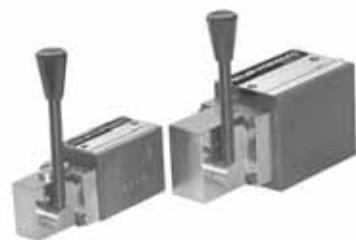




## 4/2, 4/3 WAY DIRECTIONAL VALVES KV

- NG 6, 10
- Up to 350 bar [5 076 PSI]
- Up to 60 L/min [15.8 GPM] for NG 6
- Up to 100 L/min [26.4 GPM] for NG 10
- Connecting dimensions to ISO 4401.



Mechanically operated

**KV-4/3-5KO-6-R, KV-4/3-5KO-10-R**

### Operation

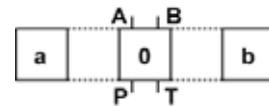
Directional valves type KV with direct mechanical operation by means of a lever control the direction of the hydraulic fluid medium flow.

These directional valves consist of a housing (1), control spool (2), control mechanism (3), and return spring (4). In 4/3-way directional valves the centre position of the control spool is the neutral position. The change-over to one of the operating positions "a" or "b" is done by moving the operating pin lever (5) in such a manner that its acts on the control spool (2) so as to clear corresponding flow ways and establish relevant links between ports, A, B, P, and T.

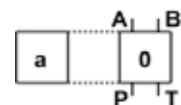
On ceasing to apply force to the control mechanism (3), the return spring (4) push the control spool into the neutral position.

### Hydraulic symbols

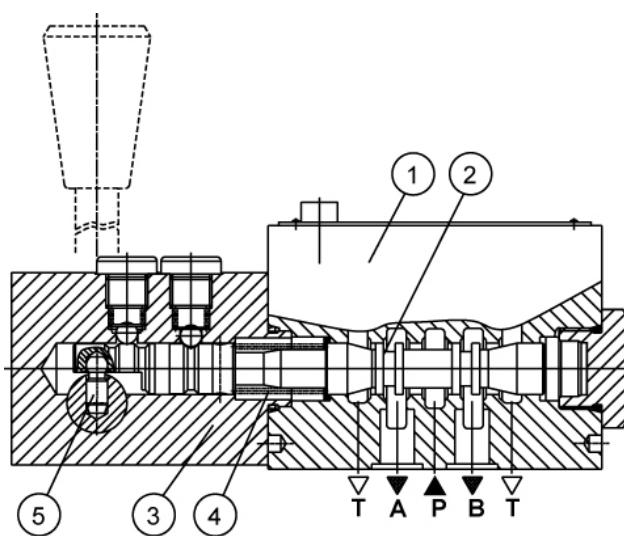
Spool types



Hydraulically operated



Electrically operated

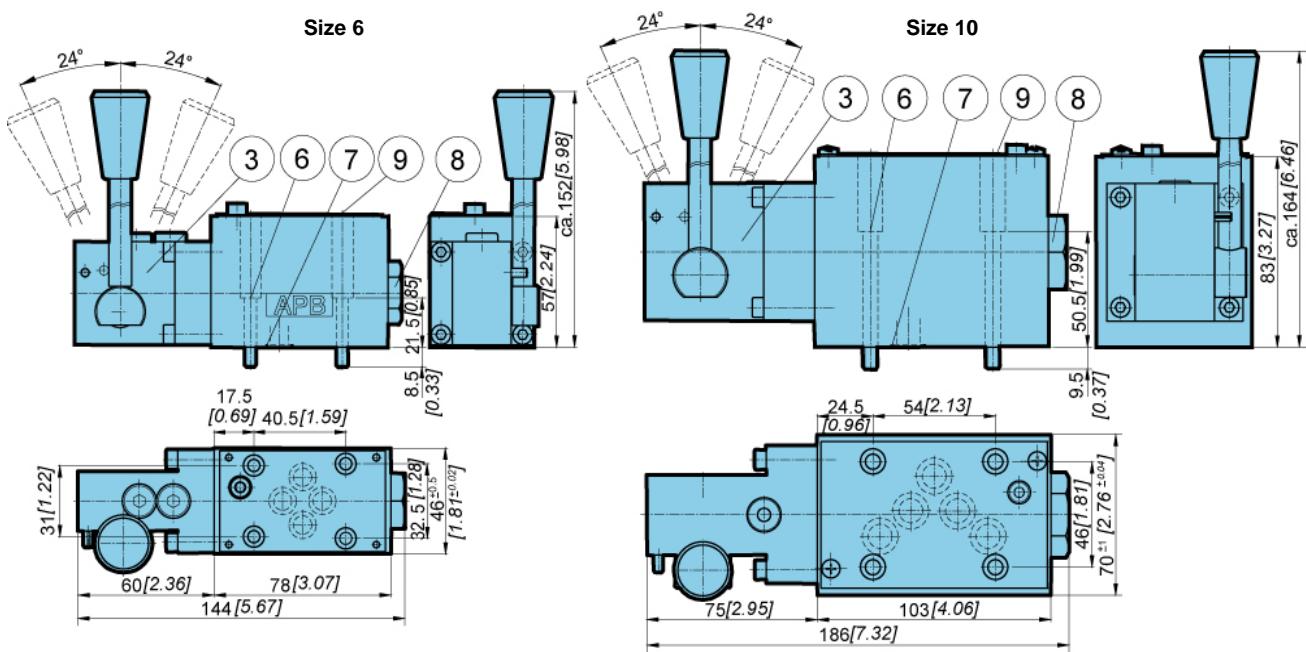




## Features

Size	6	10
Flow rate	L/min [GPM]	60 [15.8] 100 [26.4]
Operating pressure	P, A, B T	bar [PSI] bar [PSI]
Viscosity range	mm <sup>2</sup> /s [SUS]	15 to 380 [69.5 to 1 760]
Oil temperature range	°C [°F]	-20 to +70 [-4 to 158]
Filtration	NAS 1638	8
Mass	kg [lb]	2,05 [4.52] 5,23 [11.53]
Mounting position		Optional

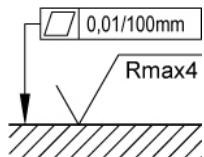
## Dimensions



- 3. Control mechanism on side "a"
- 4/3 valves
- 4/2 valves, spool types 51A
- 6. Fixing screws 4 pcs M5x30 to ISO 4762-10.9 (by special order).
- Required tightening torque Md = 9 Nm.
- 7. O-ring 9.25x1.78
- 8. Valve cap.
- 9. Nameplate.

- 3. Control mechanism on side "a"
- 4/3 valves
- 4/2 valves, spool types 51A
- 6. Fixing screws 4 pcs M6x60 to ISO 4762-10.9 (by special order).
- Required tightening torque Md = 15 Nm.
- 7. O-ring 12.42x1.78
- 8. Valve cap.
- 9. Nameplate.

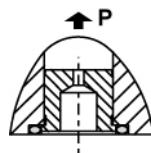
Required quality of the mating surface.





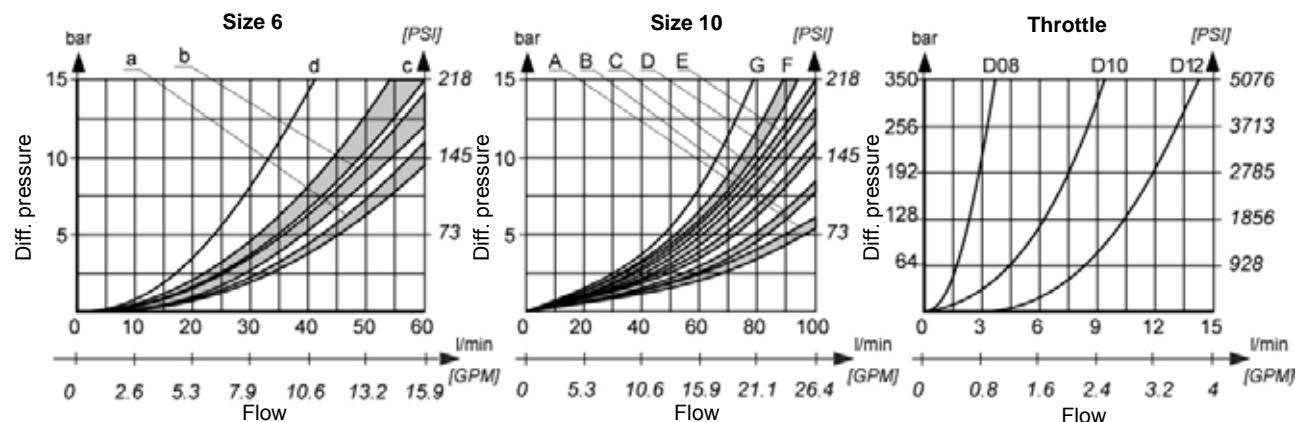
## Cartridge throttle

If flow rates greater than permissible occur during change-over, a cartridge throttle must be fitted into P-line of the directional valve.



## $\Delta P$ -Q Performance curves

Measured at 50°C [122°F] and viscosity of 32 mm<sup>2</sup>/s [148 SUS].



Spool	P-A	P-B	A-T	B-T	P-T
1	b,D	b,D	c,B	c,C	-
2	c,B	c,B	c,A	c,A	d,G
6	b,E	b,E	a,B	a,B	-
51A	c,D	b,D	c,C	a,B	-

Mechanically operated

Hydraulically operated

Electrically operated



## Model code

