



8/3 WAY DIRECTIONAL VALVES KV

- NG 6
- Up to 250 bar [3 625 PSI]
- Up to 50 l/min [13.2 GPM]
- Plug-in connector for solenoids to ISO 4400.
- Threaded connections to ISO 9974 (Metric), ISO 1179 (BSPP/Gas), ISO 11926 (UNF).
- Protection of solenoid IP65 to EN 50529 / IEC 60529.
- Fulfil EMC (89/336/EEC).



KV-8/3-6

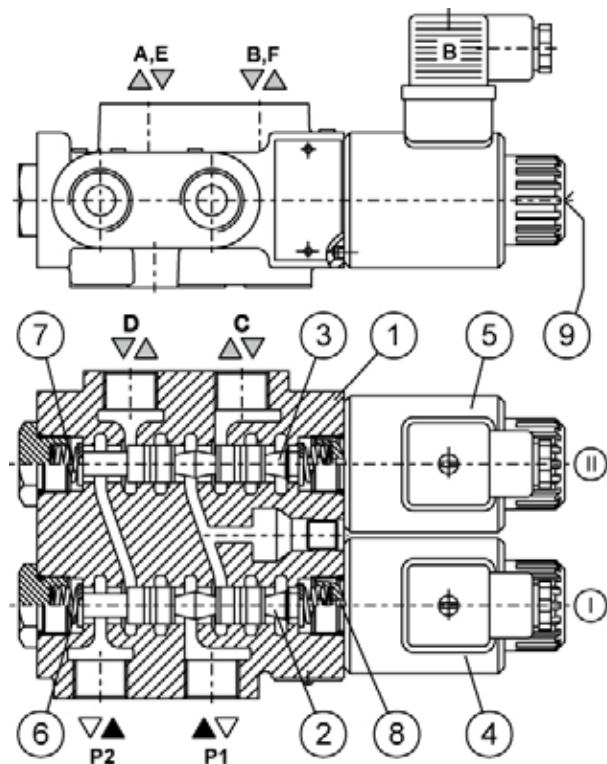
Operation

Directional valves type KV with direct solenoid operation control the direction of the hydraulic medium flow. They are mostly used as link between three consumers and the basic directional valve, when we wish to control both consumers alternately by means of one basic directional valve.

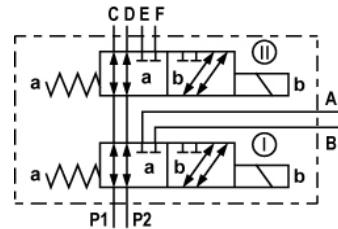
The KV type directional valves consist of a housing (1), a control spool (2,3), two solenoids (4,5) with return spring (6,7). Change-over to one of the operating positions is done by combination of operation of solenoids (4,5), whereby the solenoid plunger acts on the control spool (2,3) via the operating pin (8), thus clearing the corresponding flow ways and establishing respective links between the ports P1, A, B, C, D, E, F and P2, as seen forth in the schematic diagram of a mounting example.

When the solenoid (4,5) is de-energized, the control spool (2,3) is returned to their neutral position by the return spring (6,7).

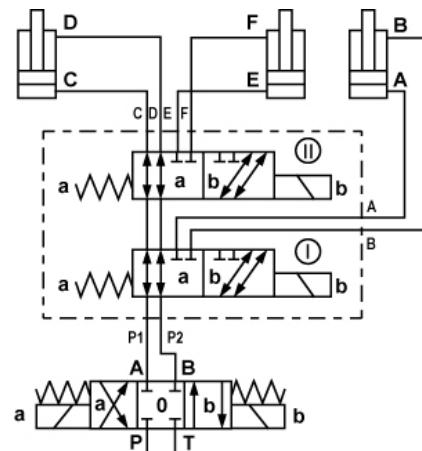
The change-over can also be done manually by pressing the emergency manual override (9).



Hydraulic symbol



Mounting example



Mechanically operated

Hydraulically operated

Electrically operated



Features

Hydraulic

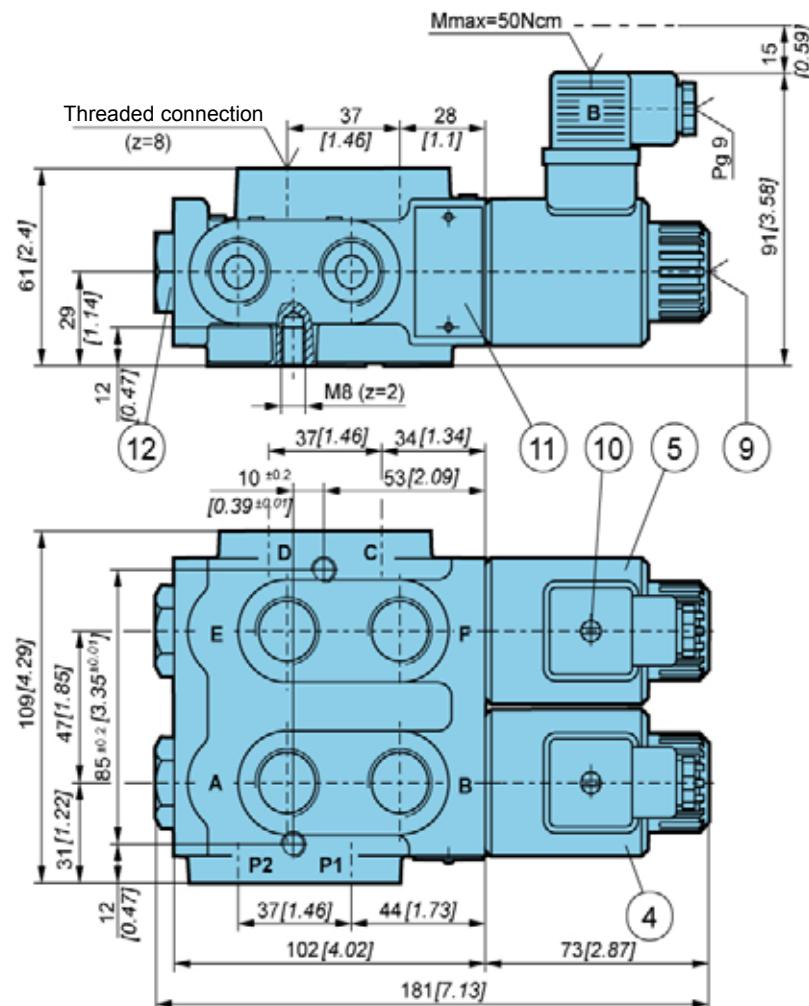
Size

Flow rate	L/min [GPM]	50 [13.21]	6
Operating pressure	bar [PSI]	250 [3 625]	
Oil temperature range	°C [°F]	-20 to +70 [-4 to +158]	
Viscosity range	mm ² /s [SUS]	15 to 380 [3.24 to 82]	
Mounting position		Optional	
Mass	kg [lb]	3.8 [8.38]	
Filtration	NAS 1638	8	

Electrical

Supply voltage	V	12, 24 DC	
Power	W	29	
(12 V DC supply voltage)		36	
Switching frequency	1/h	15000	
Ambient temperature	°C [°F]	to +50 [to +122]	
Coil temperature	°C [°F]	to +180 [to +356]	
Duty cycle		Continuous	

Dimensions

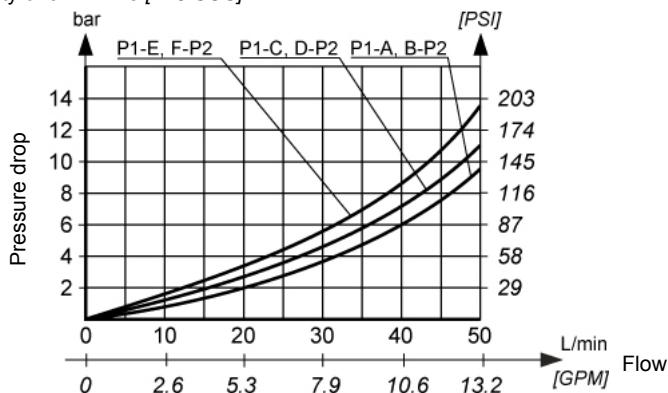


4.5. Solenoid "b" MR-045
 9. Emergency manual override
 10. Plug-in connector «b» - black
 11. Nameplate
 12. Valve cap



ΔP-Q Performance curves

Measured at 50°C [122°F] and viscosity of 32 mm²/s [148 SUS].



Model code

K V - 8 / 3 - 6 - □ - □ - □ - □ - □ - *

Manual override option

Emergency manual override	No designation
Manual override with rubber cover	G
Lockable manual override	C

Supply voltage

Direct voltage 24V	No designation
Direct voltage 12V	12 DC

Connector type

EN 175301-803 without signal lamp	No designation
EN 175301-803 with signal lamp	L
EN 175301-803 without connector	K
AMP Junior timer without connector	M
Deutsch	V

Overvoltage

Without overvoltage protection	No designation
With overvoltage protection	T

Threaded connections

M18x1,5	No designation
M22x1,5	M22
M20x1,5	M20
G3/8	G3/8
G1/2	G1/2
3/4-16 UNF-2B	SAE 8

Seal type

NBR seals for mineral oil HL, HLP, to DIN 51524	No designation
FPM seals for HETG, HEES, HEPG to VDMA 24568 and ISO 15380	E

Special requirements to be briefly specified

Mechanically operated

Hydraulically operated

Electrically operated