6/2 WAY DIRECTIONAL VALVE KV

- NG 6
- Up to 350 bar *[5 076 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 IP 65 to EN 60529 / IEC 60529.
- Fulfil EMC (89/336/EEC).

KV-6/2-6-S50

Operation

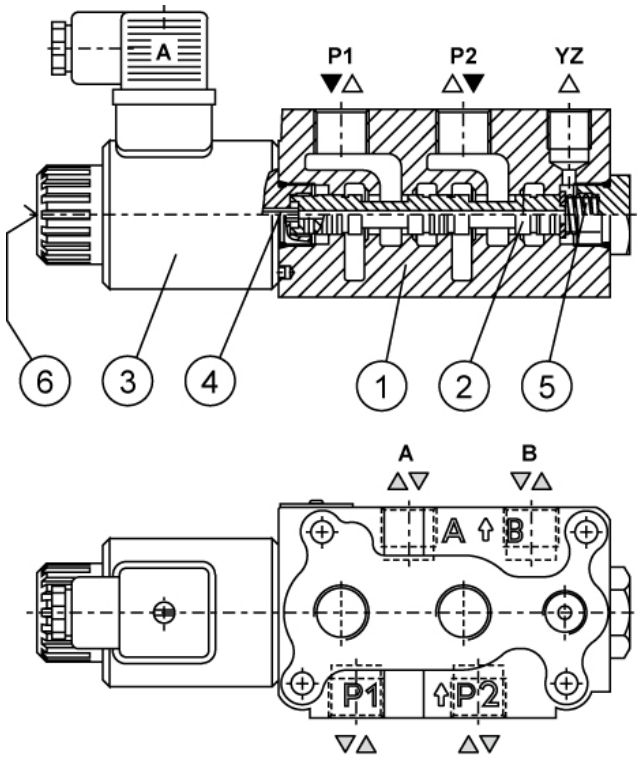
Directional valves type KV with direct solenoid operation control the direction of the hydraulic medium flow. They are mostly used as link between two consumers and the basic directional valve, when we want to control both consumers alternately by means of one basic directional valve.

The KV type directional valves consist of a housing (1), a control spool (2), a solenoid (3) and a return spring (5).

Change-over to the operating position is done by energizing the solenoid (3), whereby the solenoid plunger acts on the control spool (2) via the operating pin (4), thus clearing the corresponding flow ways and establishing respective links between the ports P1, A, B and P2.

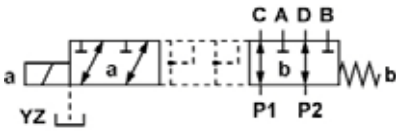
When the solenoid (3) is de-energized, the control spool (2) is returned to its neutral position by the return spring (5), thus establishing again the links between ports P1, C, D and P2.

The change-over can also be done manually by pressing the emergency manual override (6).

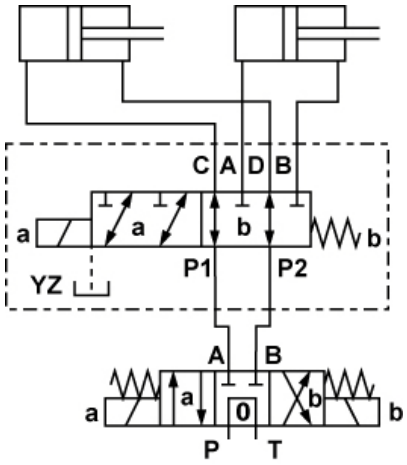


Hydraulic symbol

Spool type



Mounting example

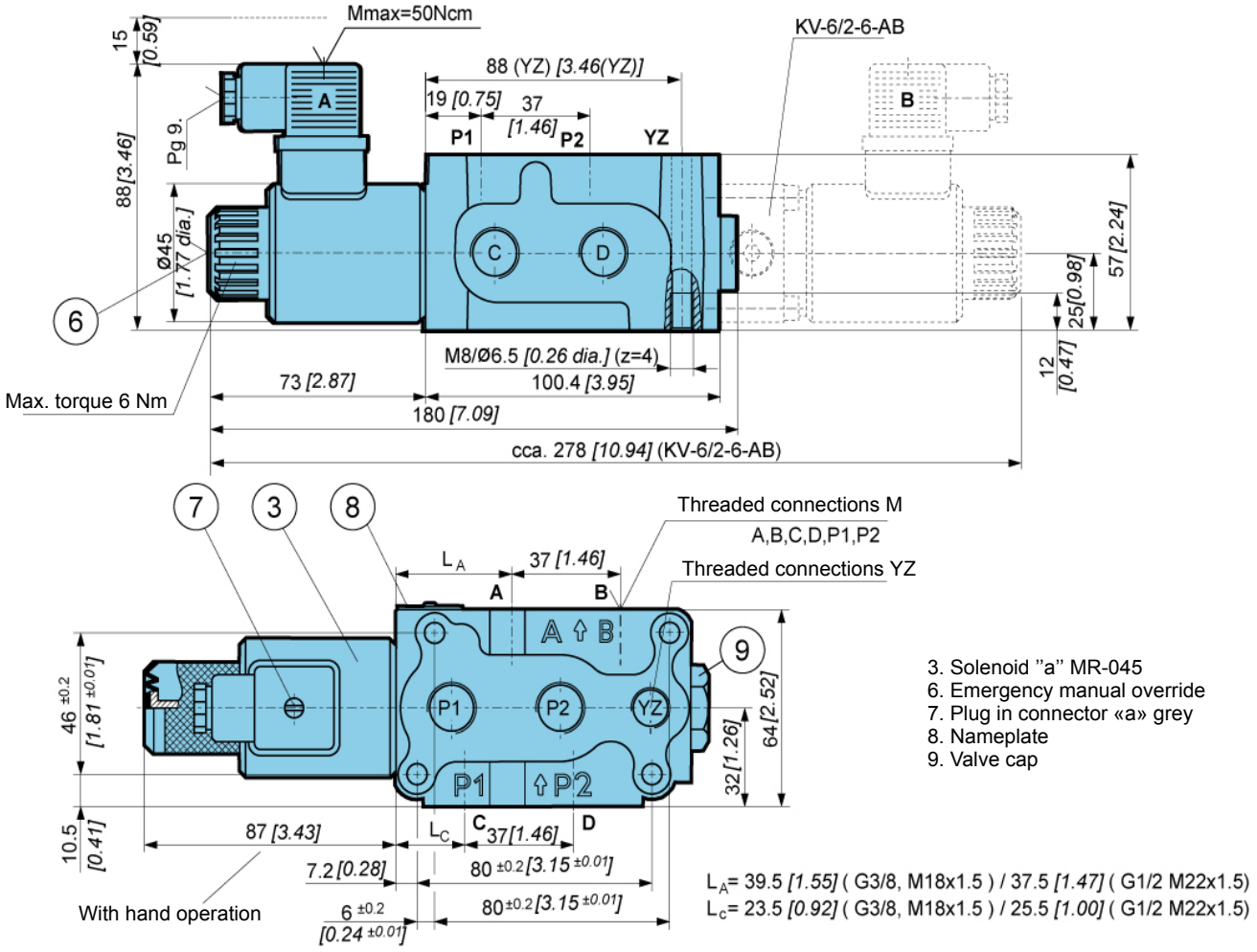


Features

Hydraulic			
Size			**6**
Flow rate		L/min *[GPM]*	50 *[13.2]*
Operating pressure	With YZ	bar *[PSI]*	350 *[5 076]*
	Without YZ		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]*	2,5 *[5.51]*
Filtration		NAS 1638	8

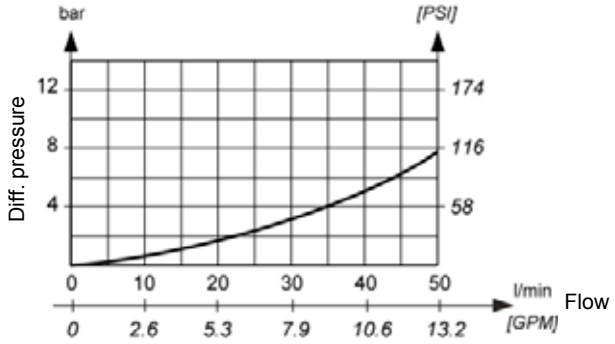
Electrical		
Supply voltage	V	12, 24 DC
Power	W	31
Switching frequency	1/h	15 000
Ambiant temperature	°C *[°F]*	to +50 *[to +122]*
Coil temperature	°C *[°F]*	to +180 *[to +356]*
Duty cycle		Continuous

Dimensions



ΔP-Q Performance curve

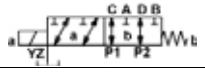
Measured at 40°C *[104°F]* and viscosity of 32 mm^2/s *[148 SUS]*.



Model code

K V - 6 / 2 - 6 - □ - □ - □ - □ □ □ - □ - □ - □ - S 5 0 - ✱

Spool type

	**No designation**
	**AB**

Special requirements to be briefly specified

Overlap

	**No designation**
	**P**

Seal type

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

Manual override option

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

Drainage

No designation	Without YZ
YZ	With YZ

Supply voltage

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

Threaded connections M ; YZ

No designation	M18x1,5 ; M14x1,5
M22	M22x1,5 ; M14x1,5)
3/8	G3/8 ; G1/4)
1/2	G1/2 ; G1/4)
SAE 8	3/4-16 UNF-2B; 9/16-18 UNF-2B

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 protection

Without protection	**No designation**
With protection	**T**

6/2 WAY DIRECTIONAL VALVES KV

- NG 10
- Up to 350 bar *[5 076 PSI]*
- Up to 120 L/min *[31.7 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.

KV-6/2-10

Operation

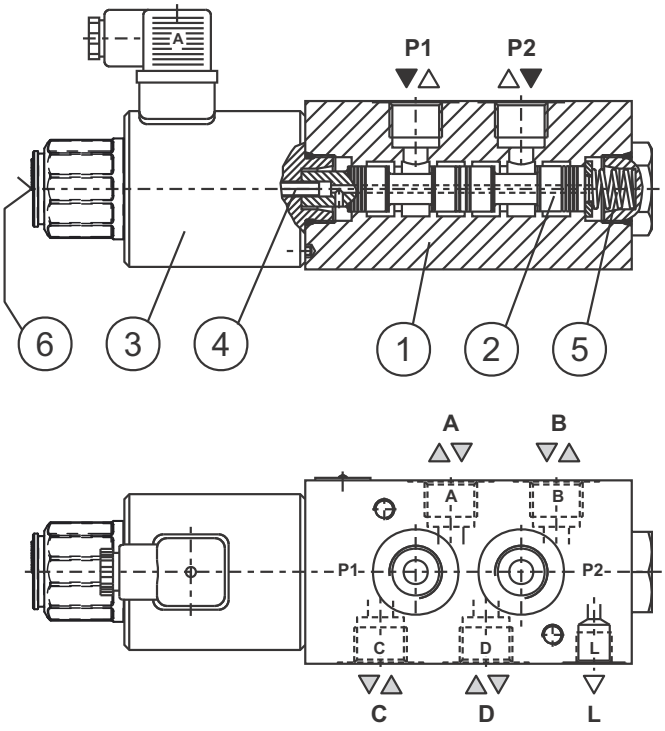
Directional valves type KV with direct solenoid operation control the direction of the hydraulic medium flow. They are mostly used as link between two consumers and the basic directional valve, when we want to control both consumers alternately by means of one basic directional valve.

The KV type directional valves consist of a housing (1), a control spool (2), a solenoid (3) and a return spring (5).

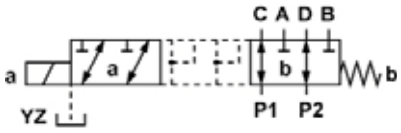
Change-over to the operating position is done by energizing the solenoid (3), whereby the solenoid plunger acts on the control spool (2) via the operating pin (4), thus clearing the corresponding flow ways and establishing respective links between the ports P1, A,B and P2.

When the solenoid (3) is de-energized, the control spool (2) is returned to its neutral position by the return spring (5), thus establishing again the links between ports P1, C,D and P2.

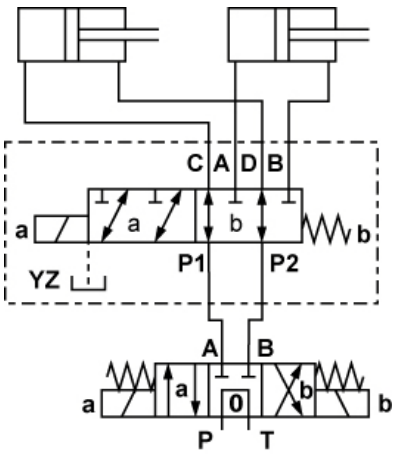
The change-over can also be done manually by pressing the emergency manual override (6).



Hydraulic symbol



Mounting example

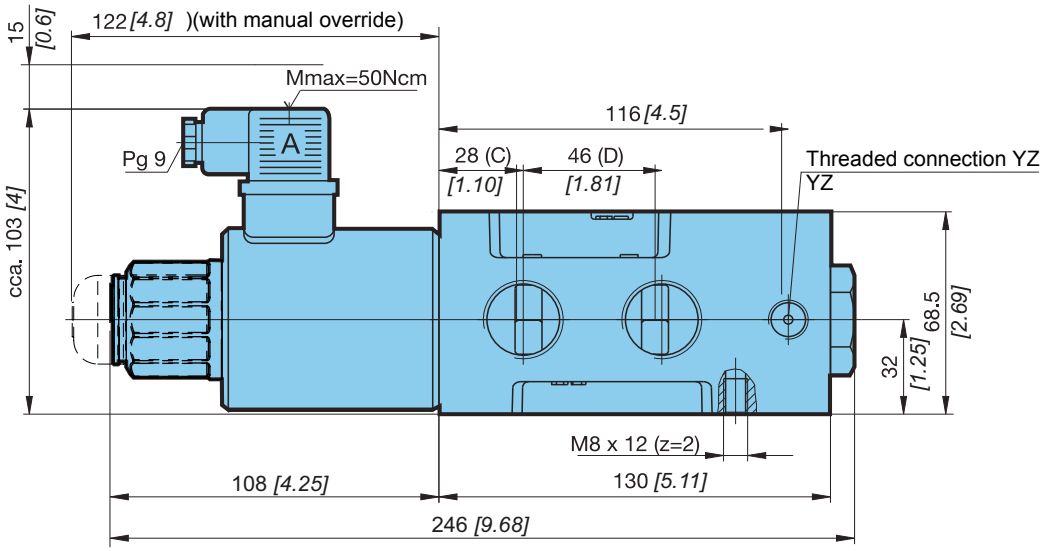


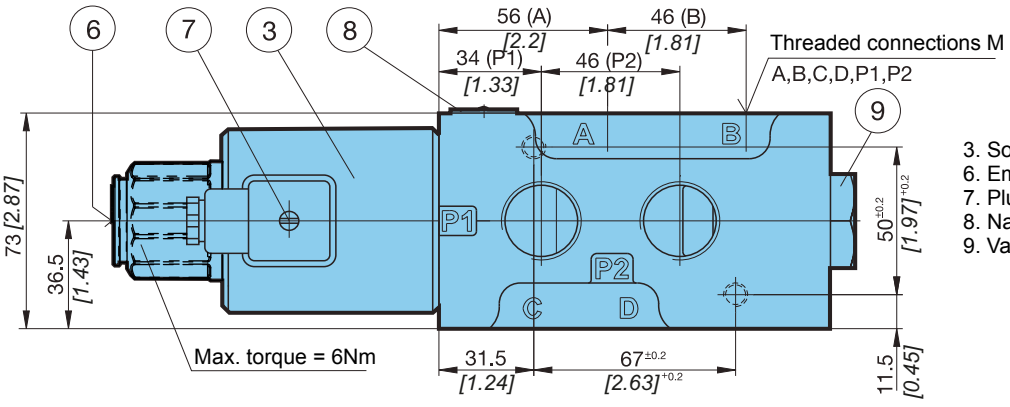
Features

Hydraulic			
Size			**10**
Flow rate		L/min *[GPM]*	120 *[31.7]*
Operating pressure	With YZ	bar *[PSI]*	350 *[5 076]*
	Without YZ		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]*	5,5 *[12.12]*
Filtration		NAS 1638	8

Electrica		
Supply voltage	V	12, 24 DC
Power	W	45
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

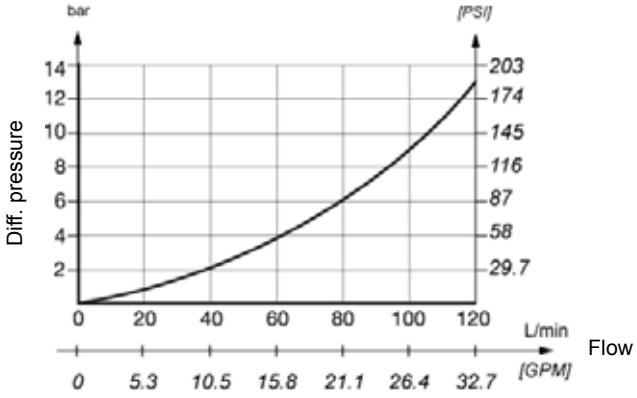




3. Solenoid ''a'' MR-060
6. Emergency manual override
7. Plug-in connector «a» - grey
8. Nameplate
9. Valve cap

ΔP-Q Performance curves

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



Model code

K V - 6 / 2 - 10 - ☐ - ☐☐☐ - ☐ - ☐ - ☐ - ✱

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 M ; YZ

M22x1,5; M14x1,5	M22
M27x2; M14x1,5	M27
G1/2; G1/4	1/2
G3/4; G1/4	3/4
7/8-14 UNF-2B; 9/16-18 UNF-2B	SAE 10

Drainage

Without YZ	No designation
With YZ	YZ

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