

# **6/2 WAY DIRECTIONAL VALVE KV**

• NG 6

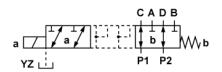
- Up to 350 bar [5 076 PSI]
- Up to 50 L/min [13.2 GPM]
- Plug-in connector for solenoids to ISO 4400.
- Threaded connections to ISO 9974 (Metric), ISO 1179 (BSPP/Gas), ISO 11926 (UNF).
- Protection of solenoid IP 65 to EN 60529 / IEC 60529.
- Fulfil EMC (89/336/EEC).



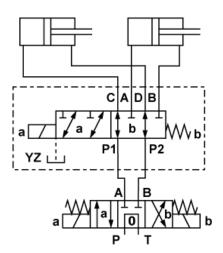
# KV-6/2-6-S50

## Hydraulic symbol

Spool type



### Mounting example



### Operation

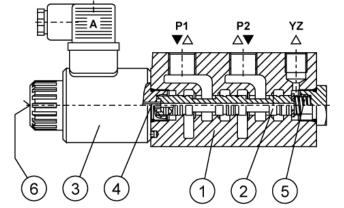
Directional valves type KV with direct solenoid operation control the direction of the hydraulic medium flow. They are mostly used as link between two consumers and the basic directional valve, when we want to control both consumers alternately by means of one basic directional valve.

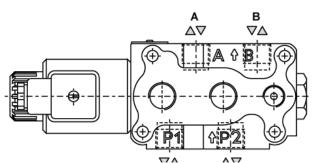
The KV type directional valves consist of a housing (1), a control spool (2), a solenoid (3) and a return spring (5).

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 hand operator (6).





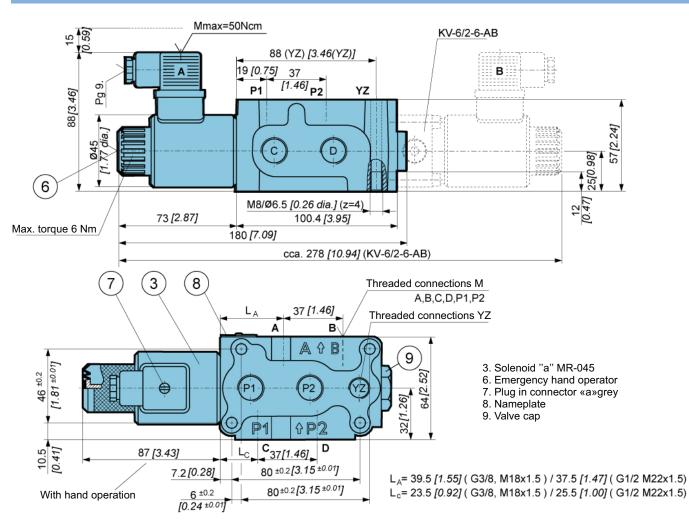


#### Features

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 <sup>2</sup> /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	29*
Switching frequency		1/h	15 000
Ambiant temperature		°C [°F]	to +50 [to +122]
Coil temperature		°C [°F]	to +180 [to +356]
Duty cycle			Continious

\* 12 V supply voltage - 36 W.

### Dimensions

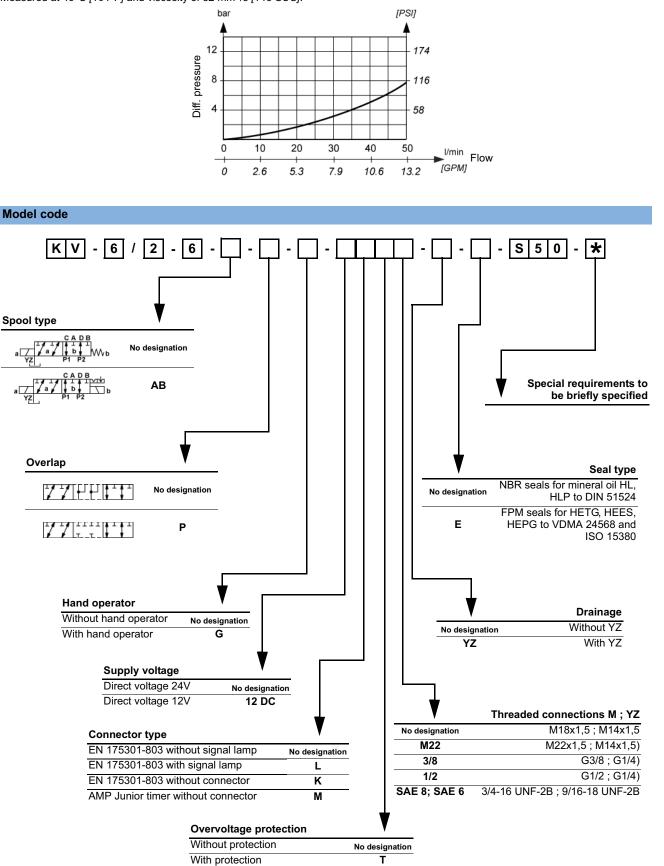




Hydraulically operated

# ∆p-Q Performance curve

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



Electrically operated



# **6/2 WAY DIRECTIONAL VALVES KV**

• NG 10

Operation

• Up to 350 bar /5 076 PS/1

one basic directional valve.

and a return spring (5).

- 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).

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

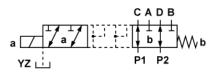
Protection of solenoid IP65 to EN 50529 / IEC 60529.







## Hydraulic symbol

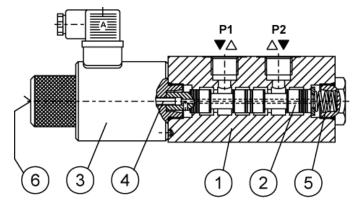


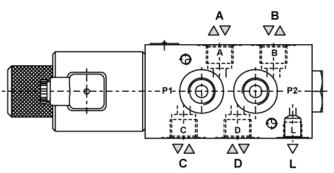
Change-over to the operating position is done by energizing the solenoid (3), whereby the solenoid plunger acts on the control spool (2) via the operating pin (4), thus clearing the corresponding flow ways and establishing respective links between the ports P1, A,B and P2.

The KV type directional valves consist of a housing (1), a control spool (2), a solenoid (3)

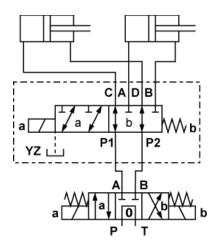
When the solenoid (3) is de-energized, the control spool (2) is returned to its neutral position by the return spring (5), thus establishing again the links between ports P1, C,D and P2.

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





Mounting example

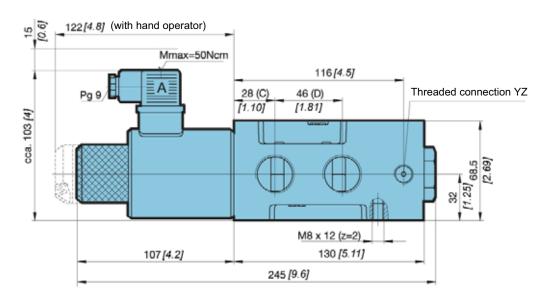


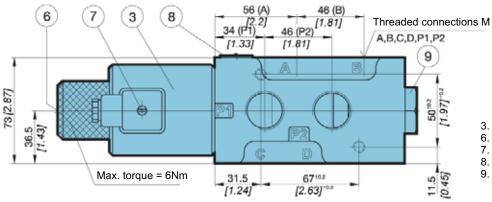


## Features

		10
	L/min [GPM]	120 [31.7]
With YZ	— bar [PSI]	350 [5 076]
Without YZ		250 [3 625]
	°C [°F]	-20 to +70 [-4 to +158]
	mm <sup>2</sup> /s [SUS]	15 to 380 [3.24 to 82]
		Optional
	Kg [lb]	5,5 [12.12]
	NAS 1638	8
	V	12, 24 DC
	W	45
	1/h	15000
	°C [°F]	to +50 [to +122]
	°C [°F]	to +180 [to +356]
		Continious
		With YZ         bar [PSI]           °C [°F]         mm²/s [SUS]           Kg [lb]         NAS 1638           V         W           1/h         °C [°F]

## Dimensions





3. Solenoid "a" MR-060

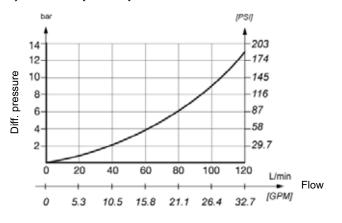
- 6. Emergency hand operator
  7. Plug-in connector «a» grey
  8. Nameplate

9. Valve cap

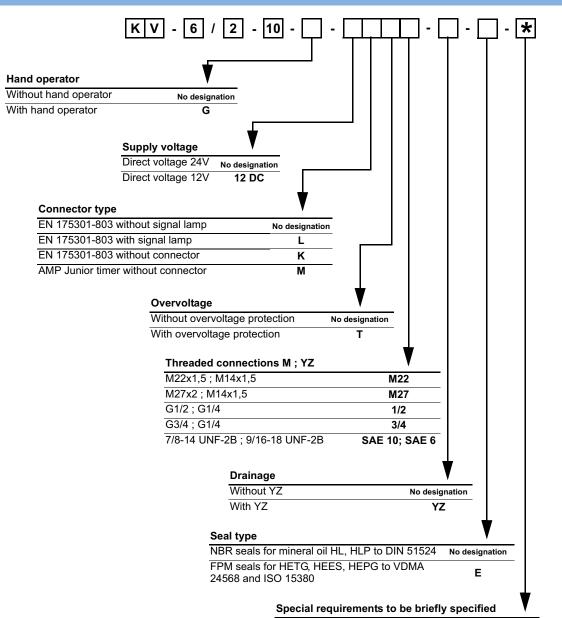


# $\Delta P$ -Q Performance curves

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



#### Model code





# 6/2 WAY DIRECTIONAL VALVES KV-6K (NG 6)

• NG 6

Operation

valve.

- Up to 250 bar [3625 PSI]
- Up to 50 L/min [13.2 GPM]
- · Direct in-line mounting.
- 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 60529 / IEC 60529.
- Fulfil EMC (89/336/EEC).

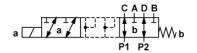
hydraulic medium flow.



KV-6K/2-6

### Hydraulic symbol

Spool type



The KV-6K/2-6 type directional valves consist of a housing (1), a control spool (2), and a solenoid (3) with return spring (5). Change-over to the operating position is done by energizing the solenoid (3), whereby the

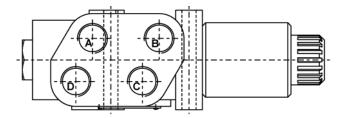
Directional valves type KV-6K/2-6 with direct solenoid operation control the direction of the

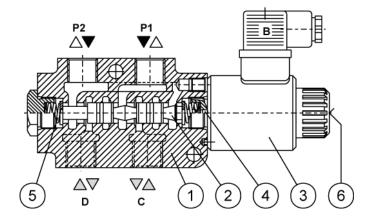
They are mostly used as link between two consumers and the basic directional valve, when we want to control both consumers alternately by means of one basic directional

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.

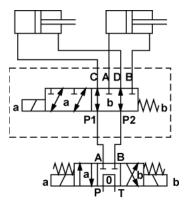
When the solenoid (3) is de-energized, the control spool (2) is returned to its neutral position by the return spring (5), thus establishing again the links between ports P1, C,Dand P2.

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





Mounting example

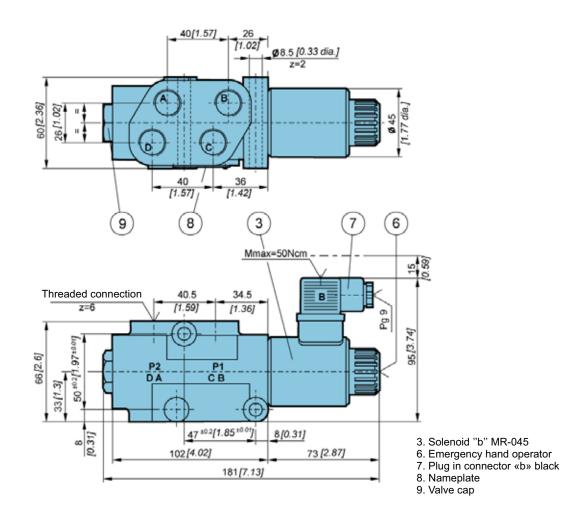




## Features

Hydraulic		
Size		6
Flow rate	L/min [GPM]	50 [13.2]
Operating pressure	bar [PSI]	250 [3 625]
Oil temperature range	°C [°F]	-20 to +70 [-4 to +158]
Viscosity range	mm²/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	29
(12 V DC supply voltage)	W	36
Switching frequency	1/h	15000
Ambient temperature	°C [°F]	to +50 [to +122]
Coil temperature	°C [°F]	to +180 [to +356]
Duty cycle		Continious

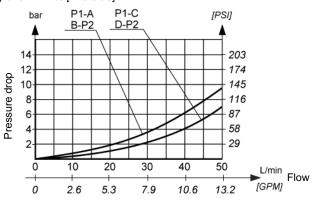
## Dimensions





## $\Delta P-Q$ Performance curves

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



#### Model code

