6/2 WAY DIRECTIONAL VALVES KVH

- NG 10
- Up to 315 bar *[5 076 PSI]*
- Up to 120 L/min *[31.70 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 50529 / IEC 60529.

KVH-6/2-10-N2

Operation

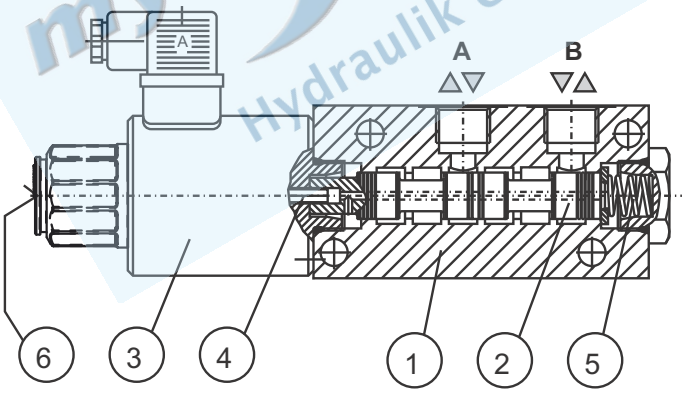
Directional valves type KVH with direct solenoid operation control the direction of the hydraulic medium flow. They are mostly used as link between two consumers and the basic directional valve, when we want to control both consumers alternately by means of one basic directional valve.

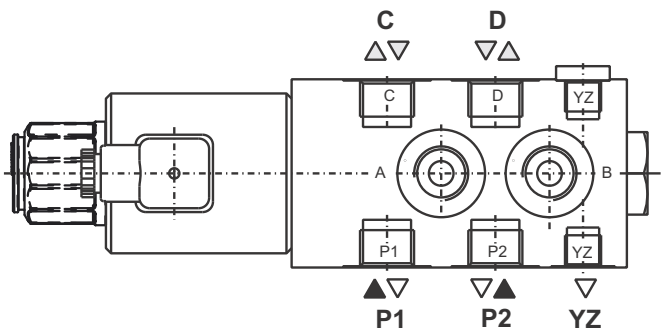
The KVH type directional valves consist of a housing (1), a control spool (2), and a solenoid (3) with return spring (5).

Change-over to the operating position is done by energizing the solenoid (3), whereby the 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.

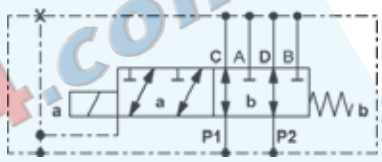
When the solenoid (3) is de-energized, the control spool (2) is returned to its neutral position by the return spring (5), thus establishing again the links between ports P1, C, D and P2.

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

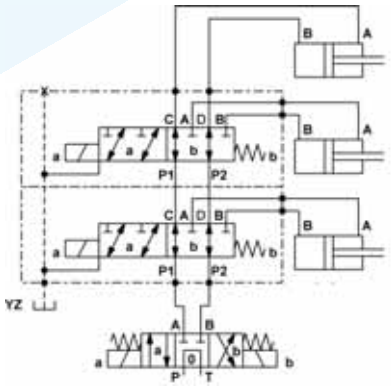




Hydraulic symbol



Mounting example

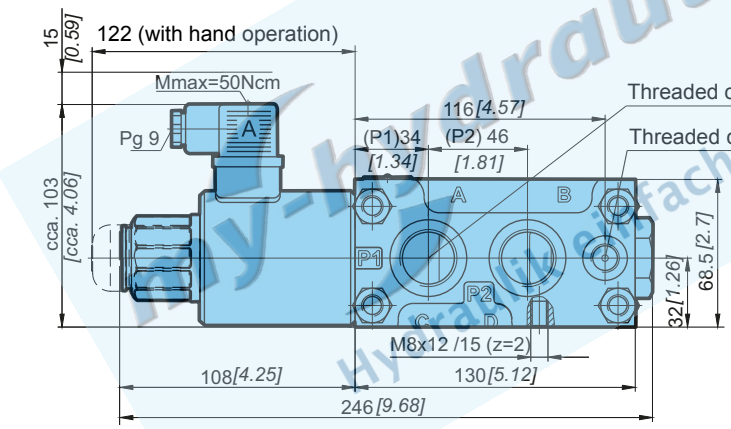


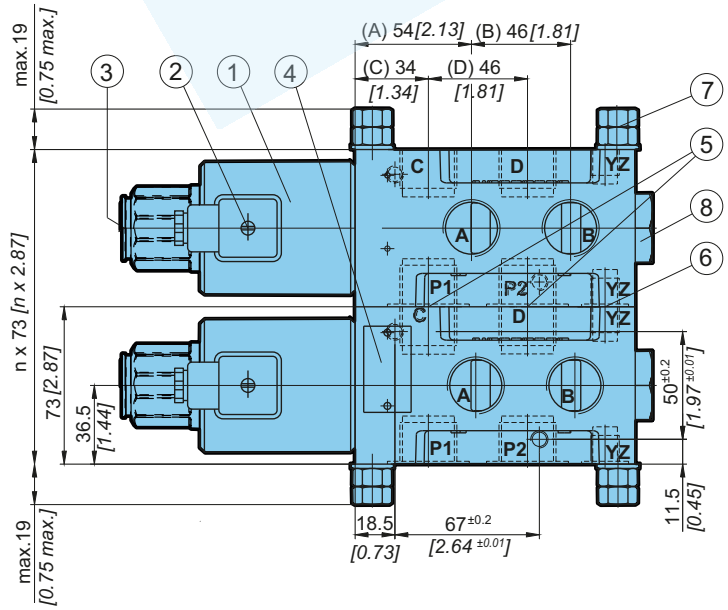
Features

Hydraulic			
Size			**10**
Flow rate		L/min *[GPM]*	120 *[31.70]*
Operating pressure	With YZ	bar *[PSI]*	315 *[4 568]*
	Without YZ		250 *[551]*
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

Electrical		
Supply voltage	V	12, 24 DC
Power	W	45
Switching frequency	1/h	15 000
Ambient temperature	°C *[°F]*	to +50 *[to +122]*
Coil temperature	°C *[°F]*	to +180 *[to +356]*
Duty cycle		Continious

Dimensions



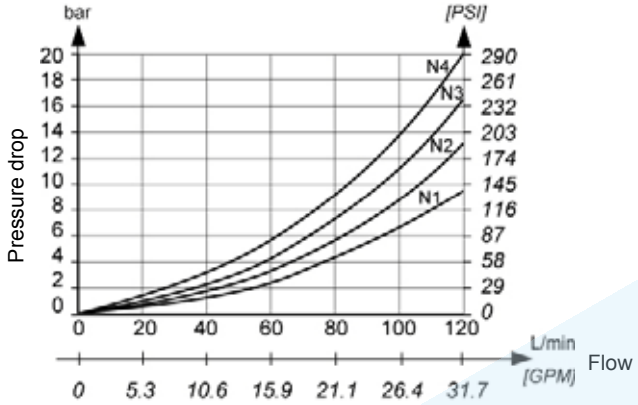


Mmax. = 20Nm

1. Solenoid ''a'' MR-060
2. Plug-in connector «a» - grey
3. Emergency manual override
4. Nameplate
5. O-Ring ; 26x2 = KVH-6/2-10-G1/2 (M22)
   31x2 = KVH-6/2-10-G3/4 (M27)
6. O-Ring 17x2
7. Screws M10 - 10.9 (z=4)
8. 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 H - 6 / 2 - 10 - ☐ - ☐☐☐ - ☐ - ☐ - S 4 0 - ☐ - ☐ - ✱

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 protection

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	G1/2
G3/4 ; G1/4	G3/4
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

Number of units

N1	One
N2	Two
N3	Three
N4	Four
N5	Five

Special requirements to be briefly specified