



## 3/2 WAY DIRECTIONAL VALVES KVC

- NG 10
- Up to 350 bar [5 076 PSI]
- Up to 100 L/min [26.4 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 50529 / IEC 60529.



KVC-3/2-10

### Operation

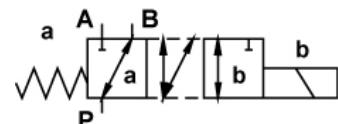
Directional valves type KVC-3/2-10 with direct solenoid operation are used to control the direction of hydraulic fluid flow.

Type KVC-3/2-10 is a reduced version of type KV-6/2. It is used for alternate control of two one-pipe working units (e.g. Plunger) with common, main directional valve.

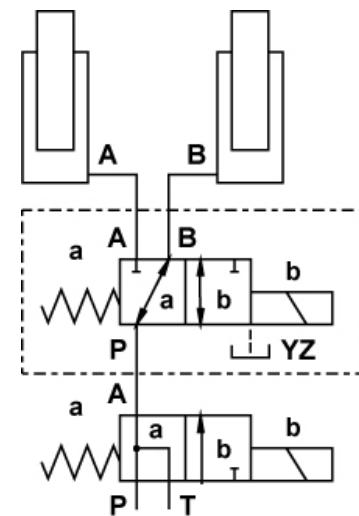
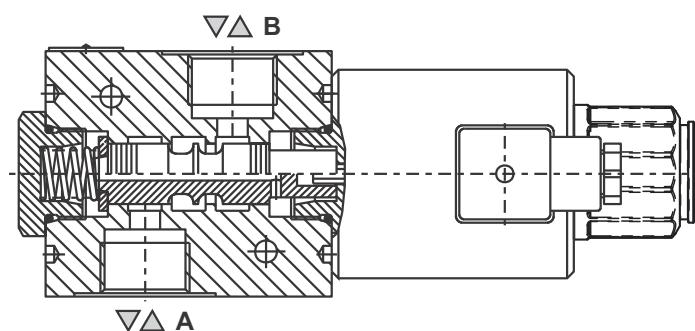
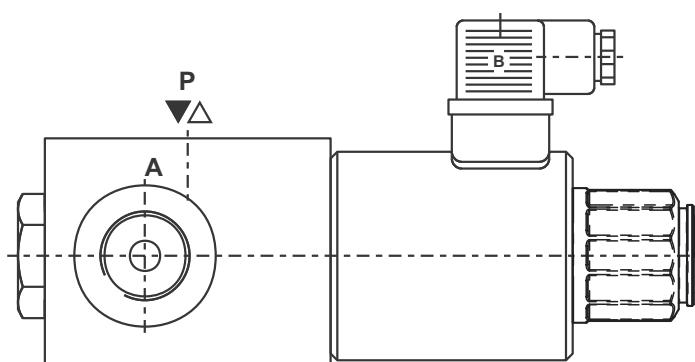
It is also very proper as bypass valve.

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

### Hydraulic symbol



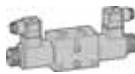
### Mounting example



Mechanically operated

Hydraulically operated

Electrically operated



## Features

### Hydraulic

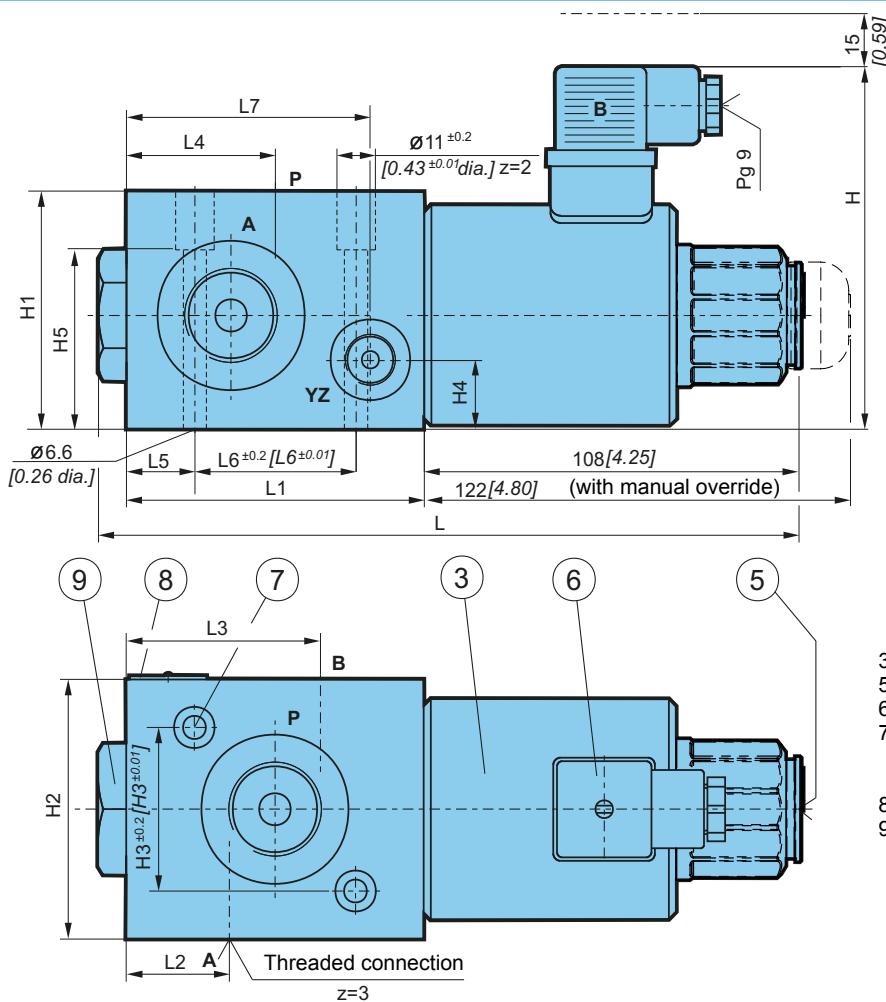
#### Size

		10
<b>Flow rate</b>	Without drainage	60 [15.8]
	With drainage	100 [26.4]
<b>Operating pressure</b>	Without drainage	250 [3 625]
	With drainage	350 [5 076]
<b>Oil temperature range</b>	°C [°F]	-20 to +70 [-4 to +158]
<b>Viscosity range</b>	mm <sup>2</sup> /s [SUS]	15 to 380 [3.24 to 82]
<b>Mounting position</b>		Optional
<b>Mass</b>	Without drainage	5,6 [12.34]
	With drainage	7,1 [15.65]
<b>Filtration</b>	NAS 1638	8

### Electrical

<b>Supply voltage</b>	V	12, 24 DC
<b>Power</b>	W	45
<b>Switching frequency</b>	1/h	15000
<b>Ambient temperature</b>	°C [°F]	to +50 [to + 122]
<b>Coil temperature</b>	°C [°F]	to +180 [to + 356]
<b>Duty cycle</b>		Continuous

## Dimensions



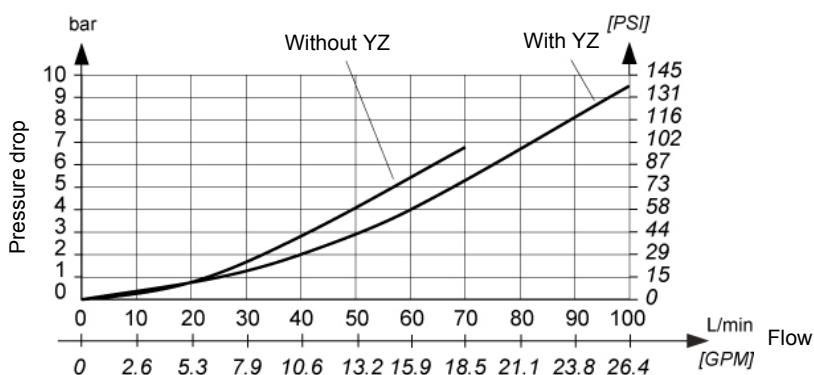
Dimensions	Without YZ	With YZ
L	201 [7.91]	210 [8.27]
L1	85 [3.34]	94 [3.70]
L2	29,5 [1.16]	31,5 [1.24]
L3	55,5 [2.18]	62,5 [2.46]
L4	42,5 [1.67]	47 [1.85]
L5	19,5 [0.76]	18 [0.71]
L6	46 [1.81]	40 [1.57]
L7	-	79,5 [3.13]
H	104 [4.09]	105 [4.13]
H1	67 [2.63]	74 [2.91]
H2	73 [2.87]	90 [3.54]
H3	46 [1.81]	66 [2.60]
H4	-	33 [1.30]
H5	50,5 [1.98]	31 [1.22]

- 3. Solenoid "b" MR-060
- 5. Emergency manual override
- 6. Plug-in connector "b" -black
- 7. Fixing screws:  
-without YZ: 2 x M6x60 to ISO 4762-10.9  
-with YZ: - 2 x M6x40 to ISO 4762-10.9
- 8. Nameplate
- 9. Valve cap



### ΔP-Q Performance curves

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



### Model code

**K V C - 3 / 2 - 10 - □ - 41B - □□□ - □ - □ - \***

#### Manual override option

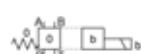
Emergency manual override **No designation**

Manual override with rubber cover **G**

Lockable manual override **C**

Special requirements to be briefly specified

#### Spool type



**41B**

#### Supply voltage

Direct voltage 24V **No designation**

Direct voltage 12V **12 DC**

#### Connector type

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**

**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

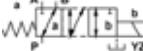
#### Drainage

No designation



Without YZ

**YZ**



With YZ

**YZP**

With YZ plugged

#### Threaded connections A,B,P ; YZ

No designation	M18x1,5 ; -
<b>M22</b>	M22x1,5 ; -
<b>M20</b>	M20x1,5 ; -
<b>3/8</b>	G3/8; -
<b>1/2</b>	G1/2; -
<b>3/4</b>	G3/4; -
<b>3/4</b>	G3/4; G1/4
<b>SAE 12</b>	1 1/16-12 UNF-2B; 9/16-18 UNF-2B
<b>SAE 10</b>	7/8-14 UNF-2B; 9/16-18 UNF-2B

Mechanically operated

Hydraulically operated

Electrically operated