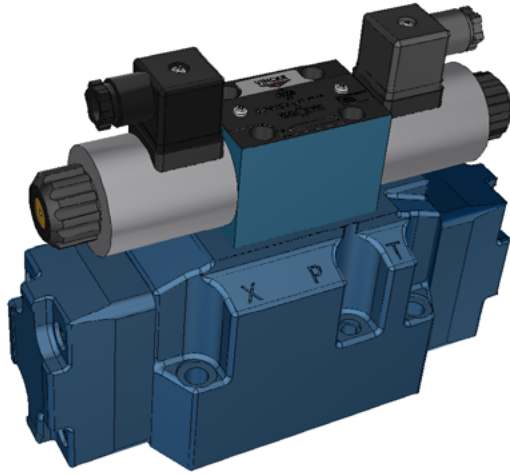


Electro-hydraulic directional control valve



Technical Specification

Specifiation		Cetop 7 / NG16		Cetop 8 / NG25	
Model		4VNKEH-16	4VNKEH-16	4VNKEH-25	4VNKEH-25
	P, A, B Port	35		35	
Max. Working (MPa) pressure	T port (internal leakage of control oil)	10		10	
	Y port (external leakage of control oil)	10		10	
Minimum control pressure (MPa)		1.2 Spring - Return 4/3 valve 4/2 valve		1.3 Spring - Return 4/3 valve 4/2 valve	
Maximum control pressure (MPa)		To25			
Max. Flow (L/min)		300		650	
Working fluid		Mineral oil: phosphate-ester			
Fluid temp. (°C)		-20~70			
Viscosity (mm²/s)		2.8~380			

Cleanliness

The maximum allowable cleanliness of the oil should be according to 9th degree of Standard Nas 1638. It is suggested that the minimum filter rating should be $\beta_{10} \geq 75$.

Electro-hydraulic directional control valve

Ordering Code

4VNKEH-16-*-*-DC24V-*-*-*-*-*

Electro-hydraulic directional control valve

Nominal size 16 Cetop 7, 25 Cetop 8

Main valve return type
Omit Spring return
H Hydraulic centration

Function code
Details as following symbol table

Working voltage
D12 DC12V
D24 DC24V
A110 AC110V
A220 AC220V
B110 AC110V Rectified
B220 AC220 Rectified

Z5L Square connector with light
Z6 Wire box type

Omit without hand emergency
N9 with concealed hand emergency

Seal material
Omit NBR Seals
V FPM Seals

²⁾Omit No reducing valve
D3 With reducing valve

¹⁾Omit Without pre-load valve
P4.5 With pre-load valve

Omit without stroke adjusting device
A Head A of main valve with stroke adjustment
B Head B of main valve with stroke adjustment
W Both heads with stroke adjustment

Omit without shifting time adjustment
S With shifting time adjustment: Inlet flow control
S1 shifting time adjustment: Outlet flow control

Omit without damping
08 ø0.8 Damping
10 ø1.0 Damping
12 ø1.2 Damping

Omit Intl cntrl intl disch
XY Extl cntrl intl disch
X Extl cntrl intl disch
Y Intl cntrl intl disch

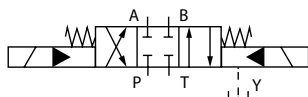
Explanation

- For neutral unloaded directional control valve it must be ordered separately. There is no model (4VNKEH) Electro-hydraulic directional control valve NS10.
- Only applied when the controlling pressure is higher than 25MPa

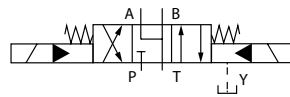
Code Symbol

4VNKSV-6-*HL

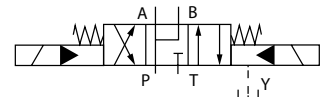
16-E
25-E



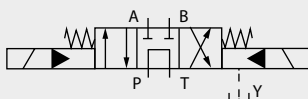
16-J
25-J



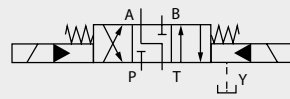
16-M
25-M



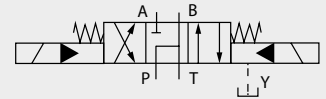
16-G
25-G



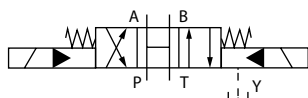
16-L
25-L



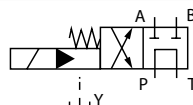
16-P
25-P



16-H
25-H

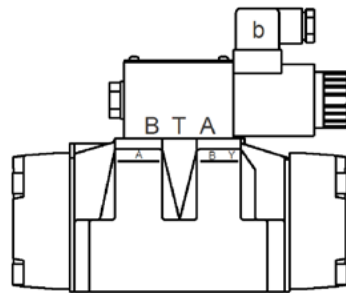
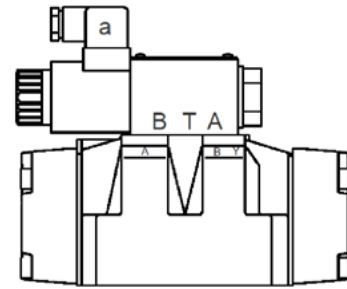
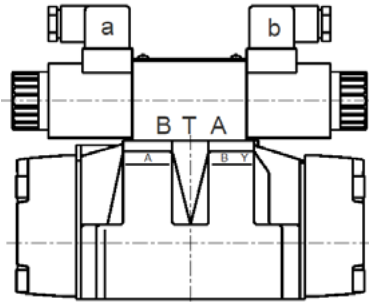


16-GA
25-GA



Electro-hydraulic directional control valve

Name of Solenoid



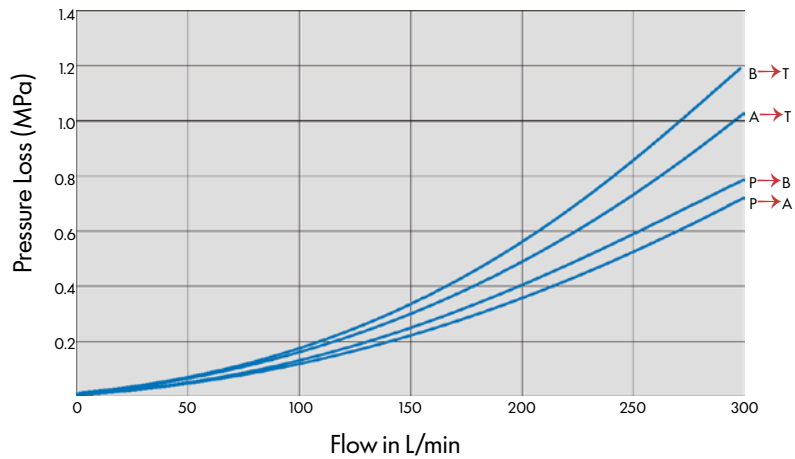
1. a When movement a, $P \rightarrow A$ $B \rightarrow T$
 2. b When movement b, $P \rightarrow B$ $A \rightarrow T$
 3. G Oil flow in the opposite direction with the above-mentioned movement.
- For E, when solenoid "a" works, $P \rightarrow A, B$

Electro-hydraulic directional control valve

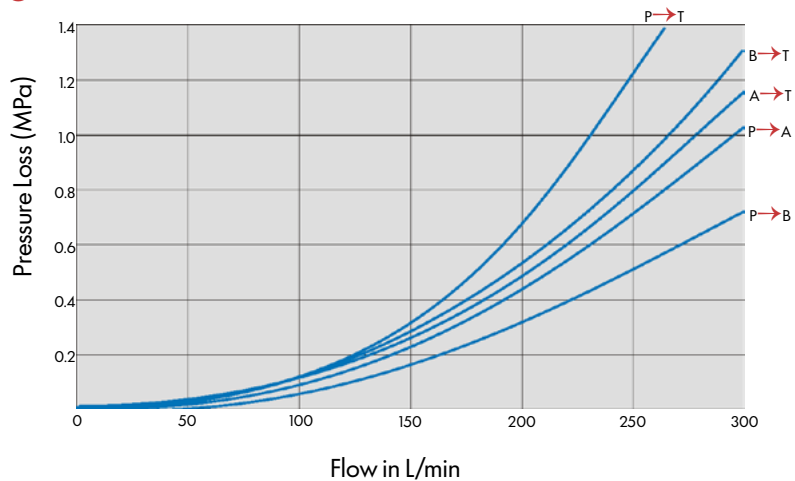
Performance Curve

Cetop 7 / NG16

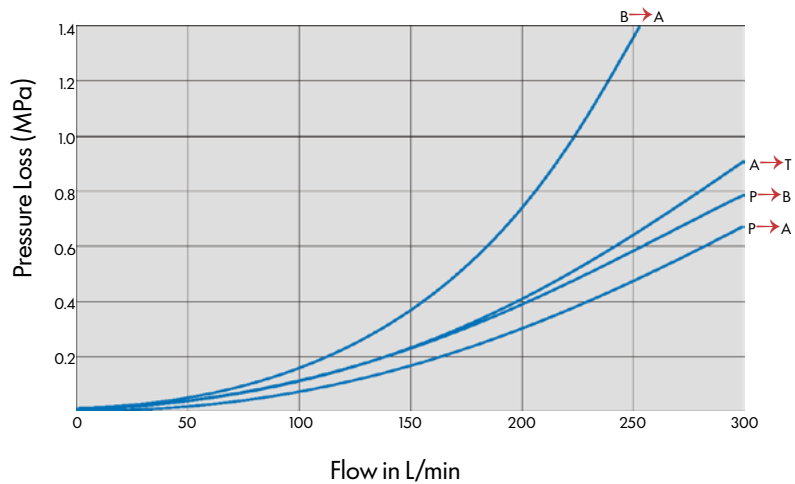
E



G



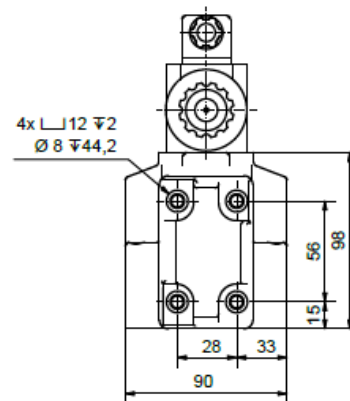
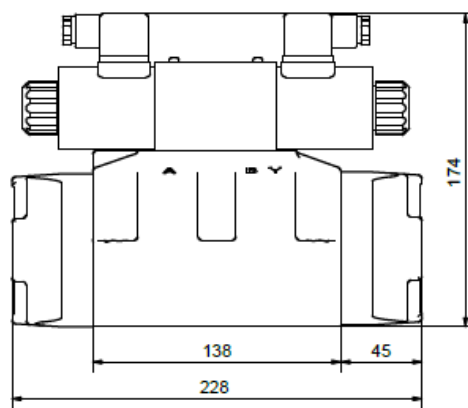
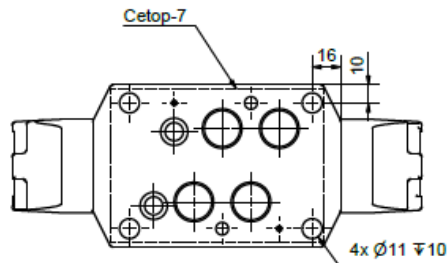
R



Electro-hydraulic directional control valve

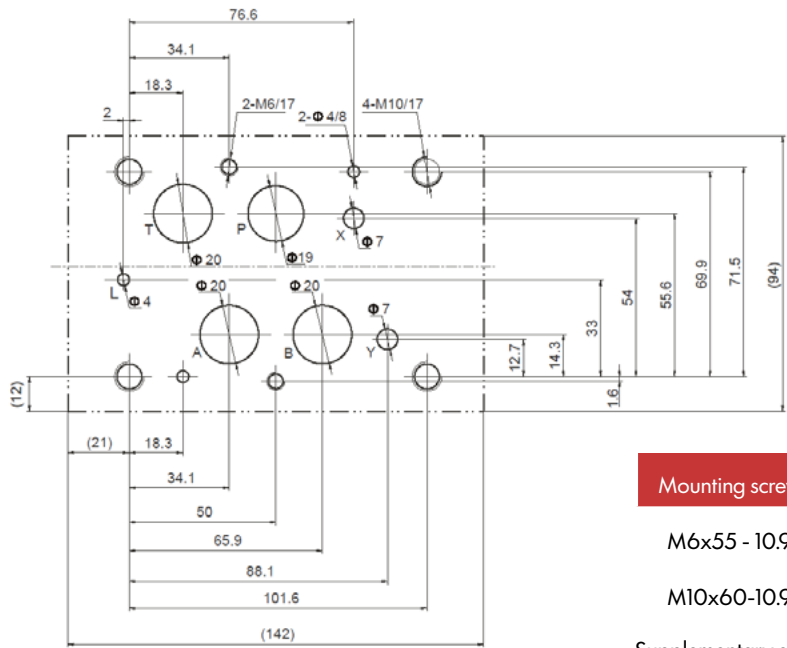
External Dimensions

Cetop 7 / NG16



Electro-hydraulic directional control valve

Subplate Size



Mounting screw	Amount	Tighten torque
M6x55 - 10.9	2	15Nm
M10x60-10.9	4	75Nm

- Supplementary explanation
1. When installing the product, considering horizontal position firstly.
 2. The medium used in the hydraulic system must be filtered, its accuracy at least 20 μ m.
 3. Screw should be according to the parameters in catalogue.
 4. The surface, connecting with the valve, should be Ra0.8 roughness, and 0.01/100mm flatness.