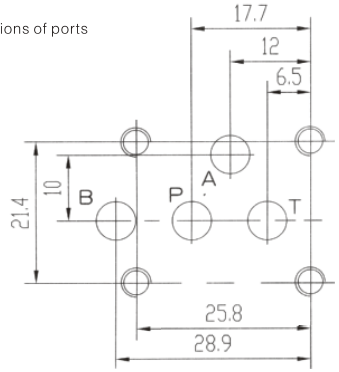
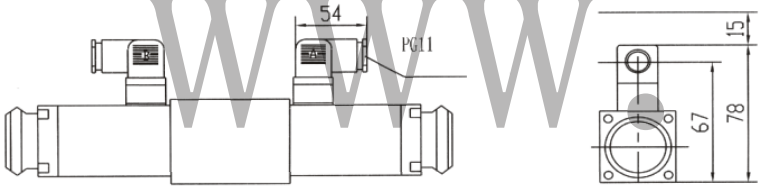
Unit dimensions of ports



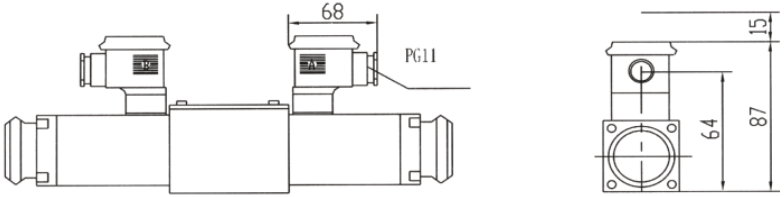
O-ring	7 X1.5
Valve fixing screws	4-M5X50-10.9 (G B/T70.1-2000)

Subplate: G115/01; G96/01
G115/02; G96/02

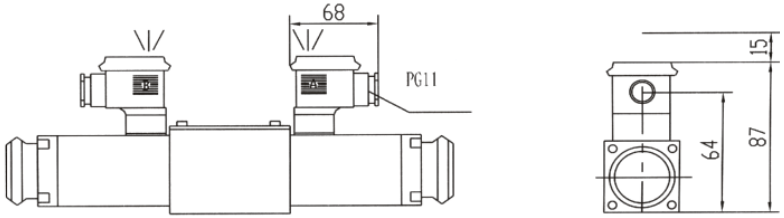
Z4 plug-in connector



Z5 large plug-in connector DIN14 3650



Z5L large plug-in connector with indicator

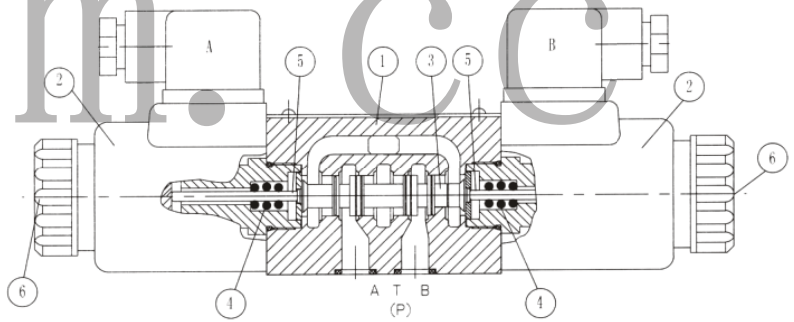


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Features:
- Direct solenoid actuated directional spool valve high performance version
- Wet pin DC or AC solenoids with removable coil
- Solenoid coil can be rotated through 90 °
- It is not necessary to open the pressure tight chamber when changing the coil
- Electrical connections either as individual or central connections
- Hand override, optional



Functional description, section



Type WE6...60B/

Essentially the directional control valves consist of housing (1), one or two solenoids (2), the control spool (3),and one or two return springs (4), In the de-energized condition the control spoof (3)is held in the neutral or initial position by means of return springs (4)(except for impulse spools).The control spool (3)is actuated via wet pin solenoids (2) The force of the solenoids (2)acts via the plunger (5)on the control spool (3)and pushes this from its neutral position to the required end position. This gives free--flow from P to A and B to T or P to B and A to T.
When solenoid (2) is de-energized, the control spool(3) is returned to its neutral position by means of the return springs (4).An optional hand override (6),allows movement of the control spool (3)without energising the solenoid.

Directional control valves, electrically operated type WE6...61B/...

Sizes 6 up to 31.5MPa up to 80 L/min

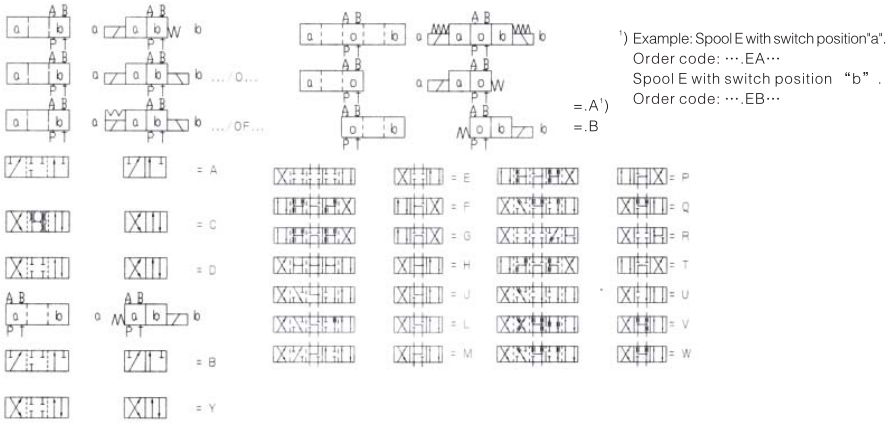
HPM GROUP

Ordering details

WE6 | 60 | C | | | | | | *

- 3 Service ports =3
  4 Service ports =4
- Symbol see below
- Series60 = 60
  (60 to 69:unchanged installation and connection dimensions)
- Spring return = No code
  Without spring return = O
  Without spring return, but with detent = OF
- Wet pin solenoid with removable coil
- 12V DC = G12
  220V AC , 50H = W220-50
  24V DC = G24
  DC solenoid commuting automatically = W220R
  (Not dependent on frequency)
- Individual connections
  K4 = With Component Plug Without Plug-in Connector
  Z4 = Normal Plug
  Z5 = Large Angled Plug
  Z5L = Large Angled Plug With Indicator Light
  Central Connections
  DKL = Central Connection On Cover With Indicator Light
  (without Angled Plug-in Connector)
- No code = Without cartridge throttle
  B08 = throttle Φ 0.8mm
  B10 = throttle Φ 1.0mm
  B12 = throttle Φ 1.2mm
- No code = Mineral oil
  V = Phospate ester
- Further details in clear text
- No code = Without Hand Override
  N = With Hand Override
  N9 = With Protected Hand Override (standard)

Symbol



') Example: Spool E with switch position"a".
Order code: ....EA...
Spool E with switch position "b".
Order code: ....EB...

Technical data

Hydraulic

Max. working pressure port A, B, P	MPa	to 35.0 to21.0(=);to16.0(~)If the Operating Pressure Is Above The Pressure Permitted At The T Port
Port T	MPa	For ports A and B, the T port must be used as a drain connection
Max.flow	L/min	to 80(=);to 60(~)
Fluid		Mineral oil or Phospate ester
Viscosity Range	mm2/s	2.8~500
Temperature Range	℃	-30~+80
Degree Of Contamination		Recommend a filter with a minimum retention rate of β 10≥75

Electrical

Voltage type		DC	AC
Available voltages	V	12、24、42、60、96、	42、110、120、230
		110、180、205、220	50760Hz
Power requirement	W	30	
Holding power	VA	–	50
Switch- on power	VA	–	220
Duty cycle		100%	
Switch time to ISO6403	Open (ms)	25 to 4 5	10 to 20
	Close (ms)	10 to 25	15 to 40
Protection to DIN		IP65	
Switching frequency	Cycles/h	up to 15000	up to 7200

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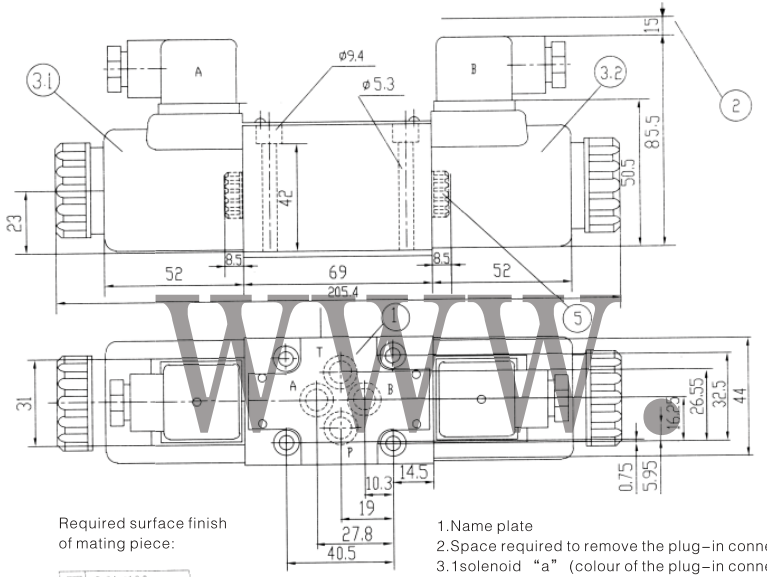
B Directional Control Valves

Directional control valves, electrically operated type WE10...31B/
Sizes 6 up to 31.5MPa up to 80 L/min
HPM GROUP

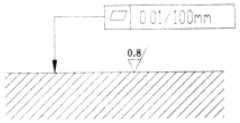
Unit dimensions

Dimensions in mm

Individual connections

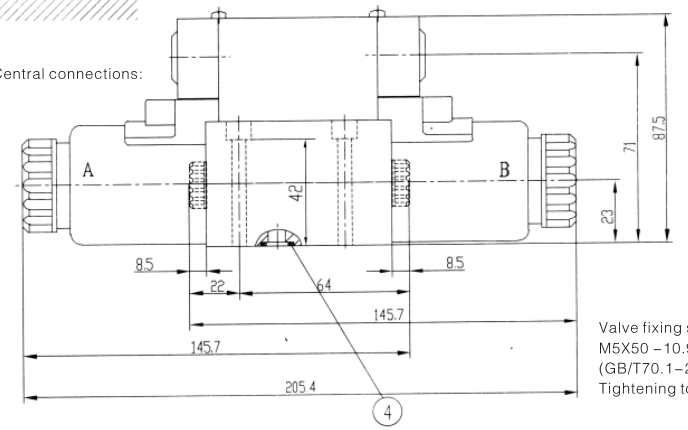


Required surface finish of mating piece:



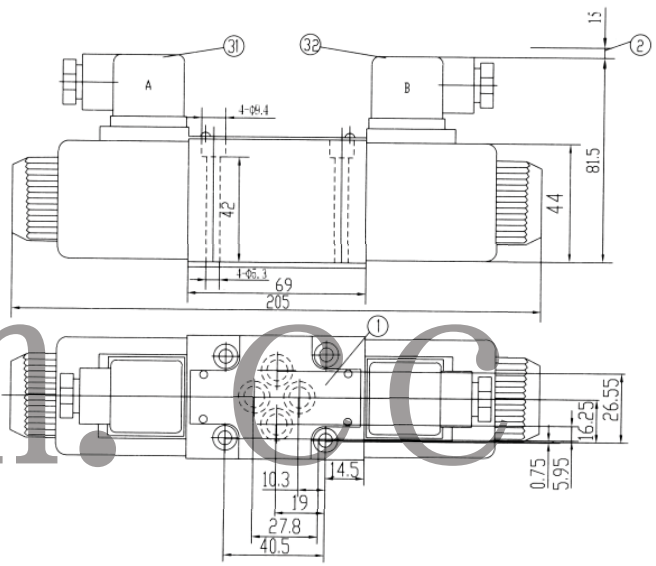
1.Name plate
2.Space required to remove the plug-in connector
3.1solenoid "a" (colour of the plug-in connector. grey)
4.2solenoid "b" (colour of the plug-in connector. black)
5.O-ring:
6.Cover for valve with one solenoid

Central connections:

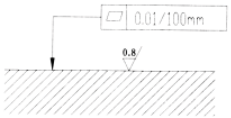


Valve fixing screw:
M5X50 -10.9
(GB/T70.1-2000)
Tightening torque:MA=8.9Nm

Individual connections

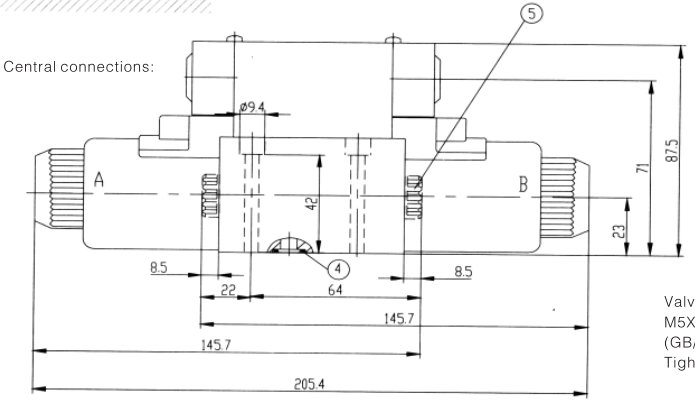


Required surface finish of mating piece:



1.Name plate
2.Space required to remove the plug-in connector
3.1solenoid "a" (colour of the plug-in connector. grey)
4.2solenoid "b" (colour of the plug-in connector. black)
5.O-ring:
6.Cover for valve with one solenoid

Central connections:



Valve fixing screw:
M5X50 -10.9
(GB/T70.1-2000)
Tightening torque:MA=8.9Nm

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