

Solenoid Directional Valve with Spool Position Monitoring

Model: WE/ (26) ...(QMBG24)



ГИДРООТВЕТ
доступная гидравлика



- ◆ Size 6 to 10
- ◆ Maximum working pressure 350 bar
- ◆ Maximum working flow 120 L/min

Contents

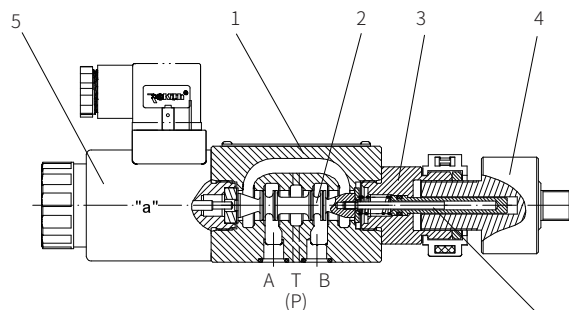
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Features

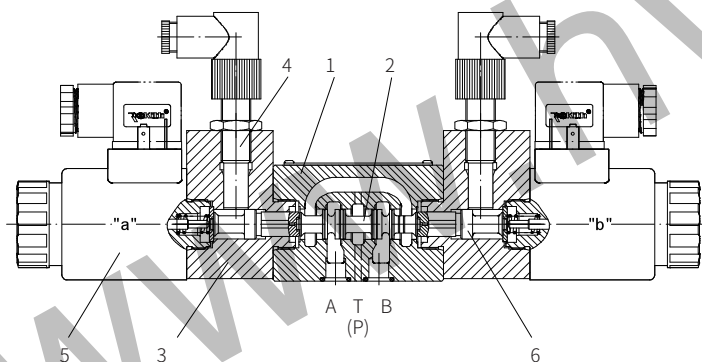
- The opening, closing and direction of flow controlled by solenoid
- Position monitoring by high voltage proximity switch
- Short response time, high induction frequency, good repeatability
- Accurately detect the spool switching position
- Non-contact induction to avoid wear and increase the service life

The valve spool is moved from the rest position to the required working position to realize the switching process by energizing or de-energizing solenoid. The fluid flows from P to A and B to T, or from P to B and A to T.

During the switching process, the signal is received through the proximity switch to feedback timely to the system whether the switching is in place and protect the system.



Model 4WE6D62J/CG24N9K4OMBG24



Model 4WE6E6XJ/26CG24N9Z5LG24WD

Models and specifications

Model WE../..QMBG24

5	4	WE	D			C	G24		QMBG24
1) four-way valve	=4								sealing material No code= NBR seals V= FKM seals (consult for other seals)
solenoid spool valve	=WE								QMBG24= monitored spool position "b"
size 6	=6								Z4= standard plug
size 10	=10								Z5L= large right angle lamp plug
functional symbols									No code= no manual emergency operation N9= with manual emergency operation
size 6									
design serial number	=62								
size 10									
design serial number	=5X								
wet-pin solenoid with detachable coil	=C						G24=		24V DC

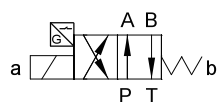
1) Only for size 10 with 5-chamber

Models and specifications

Model WE../26...

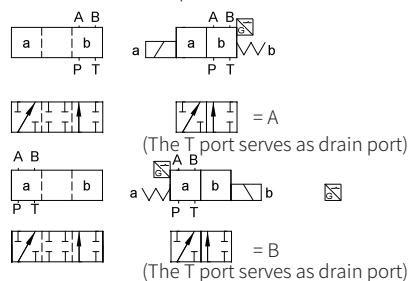
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Functional symbols of WE6 (10)D.../...QMBG24

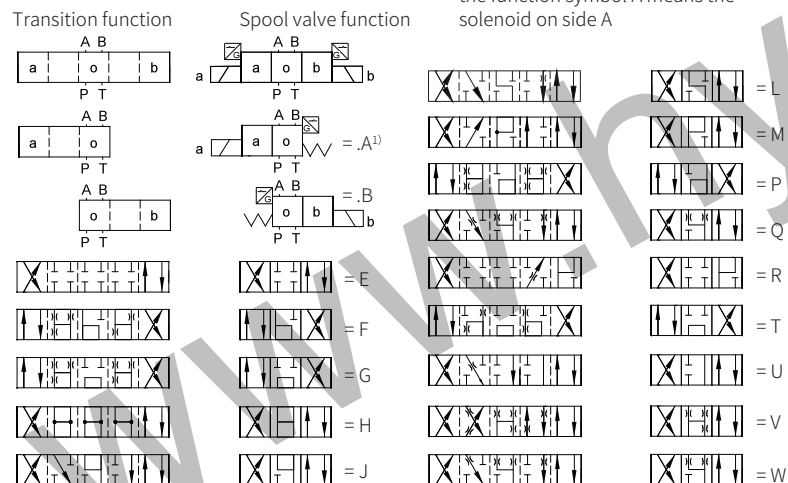


Functional symbols of WE6 (10)D.../26...

Transition function Spool valve function



1) For example:
the function symbol A means the
solenoid on side A



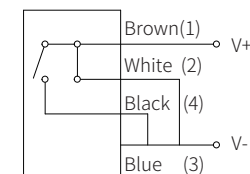
Working pressure	Port A, B, P	to 35
	Port T	to 16 (AC), to 21 (DC)
Medium	Mineral hydraulic oil or phosphate hydraulic oil	
Viscosity range	mm ² /s	2.5 to 500
Temperature range	°C	-30 to +80

Note: When the working pressure exceeds the allowable pressure, port T must be used as drain port for symbols A and B.

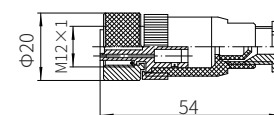
Note: For characteristic curves and limits, see the catalogue of WE solenoid directional valve.

Electrical connection of high voltage proximity switch: achieved by connecting plug with connection thread M12×1

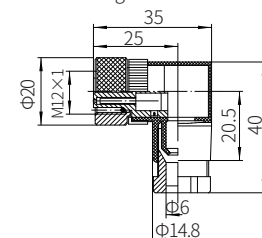
Connection voltage	24V±25%(DC)
Peak voltage	≤10%
Output voltage	Max. 200mA
Sensing frequency	600Hz



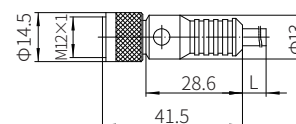
Right angle connector



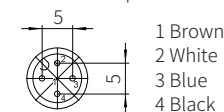
Angled connector



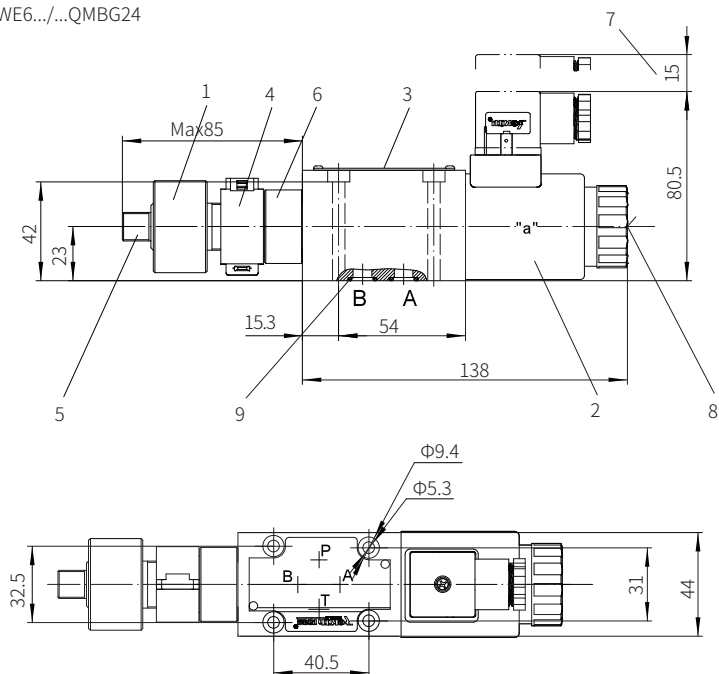
Cable connector (M12x1) (cable length 2m)



Pin position
from side of pin



Model 4WE6.../...QMBG24



- 1 Sensor
- 2 Solenoid
- 3 Name plate
- 4 Protective cap
- 5 Connection thread M12x1 for sensor electrical connector
- 6 Transition joint
- 7 Space required to remove the plug
- 8 Hidden manual emergency operation
- 9 O ring 9.25x1.78 (for oil ports P, A, B and T)

Valve fixing screw
M5x50-10.9 grade GB/T70.1-2000
Tightening torque $M_A=7.8\text{Nm}$

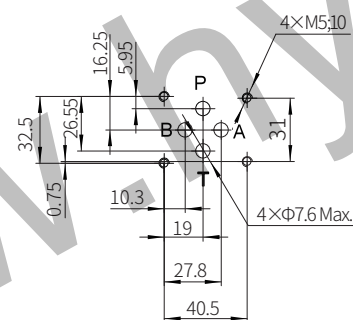
It must be ordered separately
if connection subplate is needed.

Subplate model:

G341/01 (G1/4"); G341/02(M14x1.5)

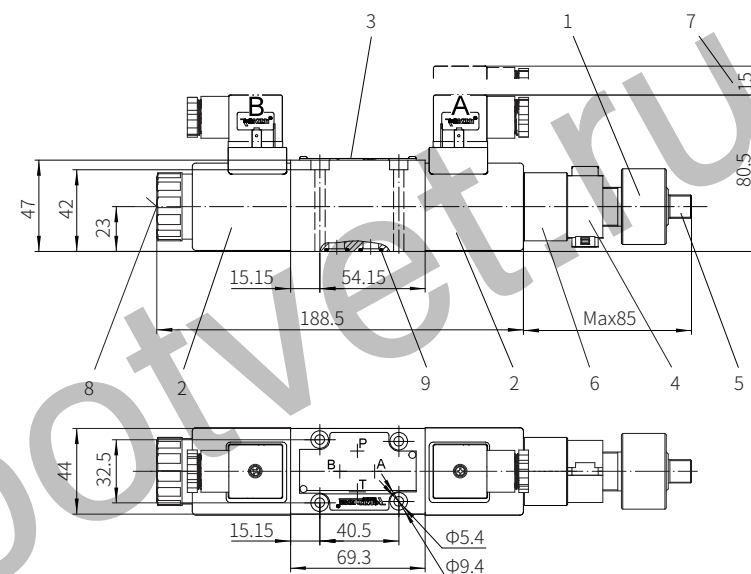
G342/01 (G3/8"); G342/02(M18x1.5)

G502/01 (G1/2"); G502/02(M22x1.5)



Required surface finishing of mating components

Model 4WE6.../...QMBG24



- 1 Sensor
- 2 Solenoid
- 3 Name plate
- 4 Protective cap
- 5 Connection thread M12x1 for sensor electrical connector
- 6 Transition joint
- 7 Space required to remove the plug
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- 9 O ring 9.25x1.78 (for oil ports P, A, B and T)

Valve fixing screw
M5x50-10.9 grade GB/T70.1-2000
Tightening torque $M_A=7.8\text{Nm}$

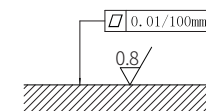
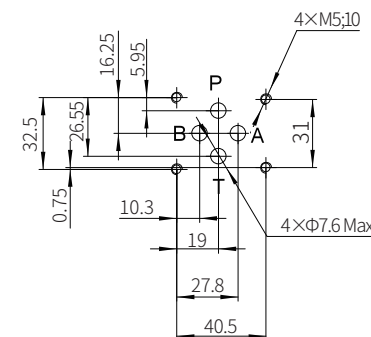
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Subplate model:

G341/01 (G1/4"); G341/02(M14x1.5)

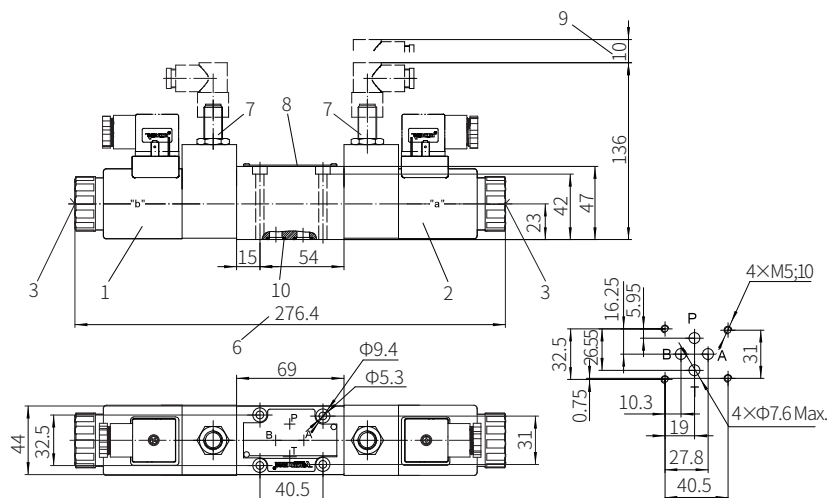
G342/01 (G3/8"); G342/02(M18x1.5)

G502/01 (G1/2"); G502/02(M22x1.5)

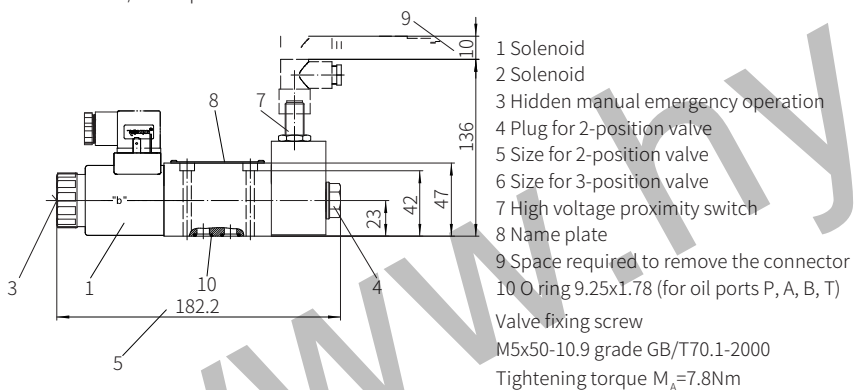


Required surface finishing of mating components

Model 4WE6.../26... 3-position valve with DC or AC rectified solenoid

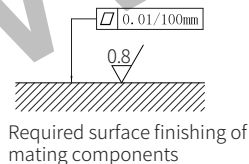


Model 4WE6.../26... 2-position valve with DC or AC rectified solenoid

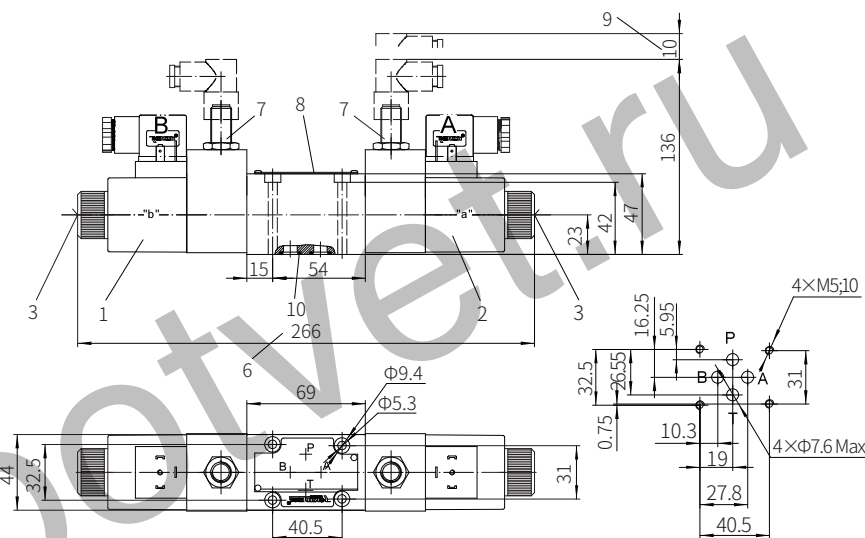


- 1 Solenoid
 - 2 Solenoid
 - 3 Hidden manual emergency operation
 - 4 Plug for 2-position valve
 - 5 Size for 2-position valve
 - 6 Size for 3-position valve
 - 7 High voltage proximity switch
 - 8 Name plate
 - 9 Space required to remove the connector
 - 10 O ring 9.25x1.78 (for oil ports P, A, B, T)
- Valve fixing screw
M5x50-10.9 grade GB/T70.1-2000
Tightening torque $M_A=7.8\text{Nm}$

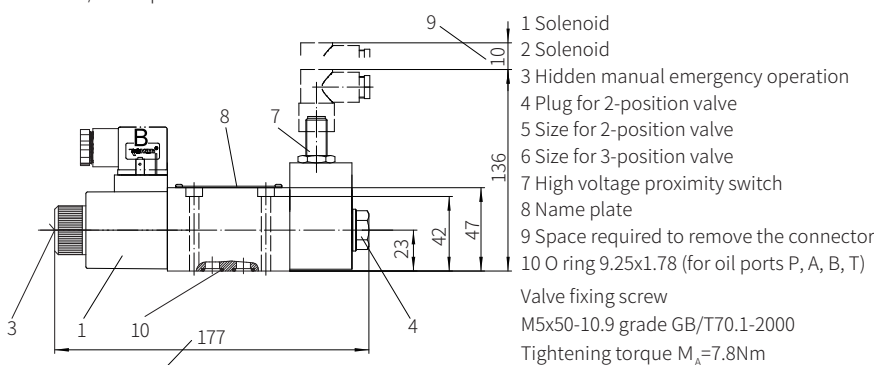
It must be ordered separately
if connection subplate is needed.
Subplate model:
G341/01 (G1/4"); G341/02 (M14x1.5)
G342/01 (G3/8"); G342/02 (M18x1.5)
G502/01 (G1/2"); G502/02 (M22x1.5)



Model 4WE6.../26... 3-position valve with AC solenoid

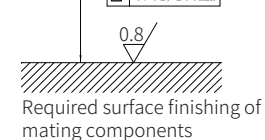


4WE6.../26... 2-position valve with AC solenoid

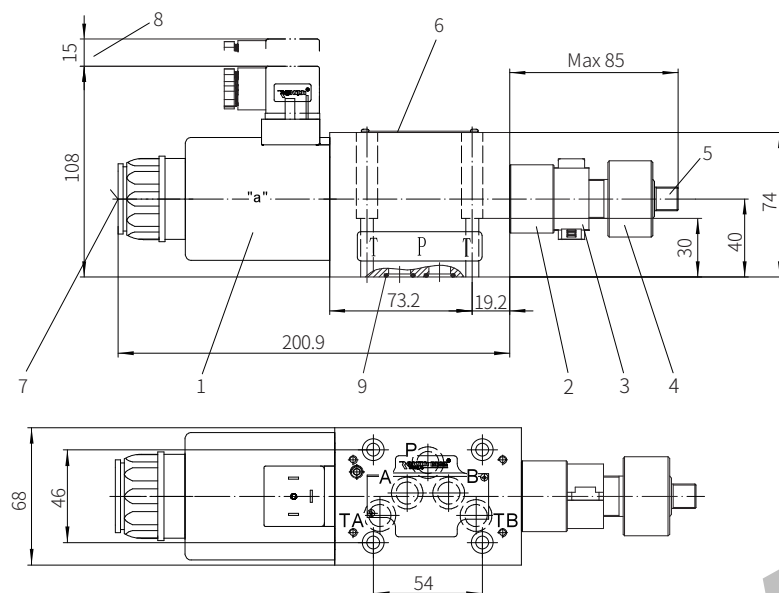


- 1 Solenoid
 - 2 Solenoid
 - 3 Hidden manual emergency operation
 - 4 Plug for 2-position valve
 - 5 Size for 2-position valve
 - 6 Size for 3-position valve
 - 7 High voltage proximity switch
 - 8 Name plate
 - 9 Space required to remove the connector
 - 10 O ring 9.25x1.78 (for oil ports P, A, B, T)
- Valve fixing screw
M5x50-10.9 grade GB/T70.1-2000
Tightening torque $M_A=7.8\text{Nm}$

It must be ordered separately
if connection subplate is needed.
Subplate model:
G341/01 (G1/4"); G341/02 (M14x1.5)
G342/01 (G3/8"); G342/02 (M18x1.5)
G502/01 (G1/2"); G502/02 (M22x1.5)



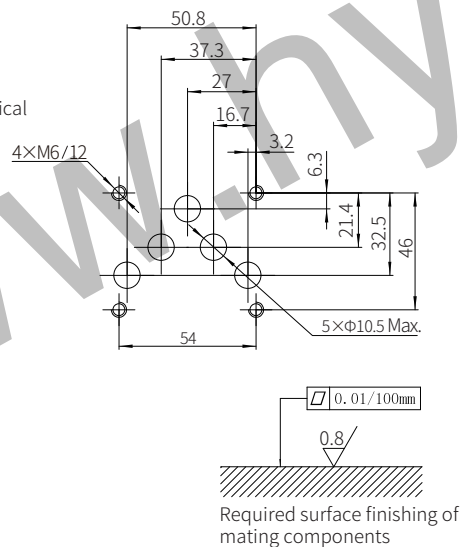
Model 4WE10D.../...QMBG24



- 1 Solenoid
- 2 Transition joint
- 3 Protective cap
- 4 Sensor
- 5 Connection thread M12x1 for sensor electrical connector
- 6 Name plate
- 7 Hidden manual emergency operation
- 8 Space required to remove the plug
- 9 O ring 10X2 (for oil ports P, A, B and T)

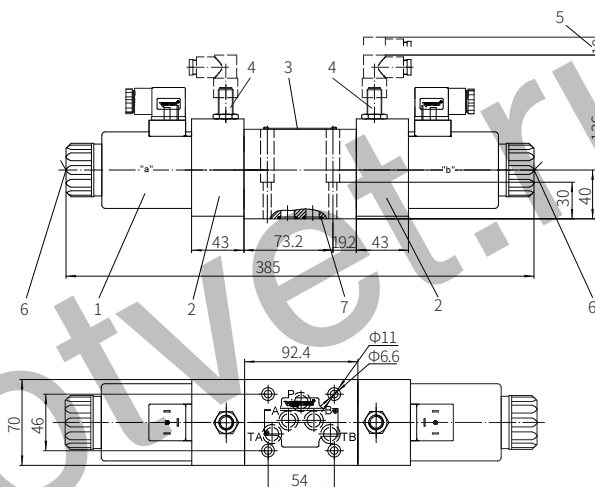
Valve fixing screw
M6x40-10.9 grade GB/T70.1-2000
Tightening torque $M_A=13.7\text{Nm}$

It must be ordered separately
if connection subplate is needed.
Subplate model:
G66/01(G3/8"); G66/02(M18x1.5)
G67/01(G1/2"); G67/02(M22x1.5)
G534/01 (G3/4"); G534/02(M27x2)

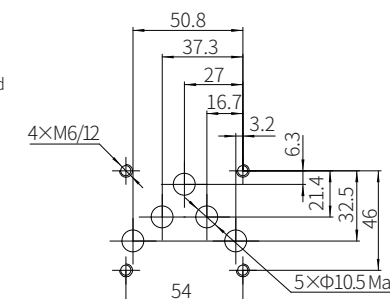
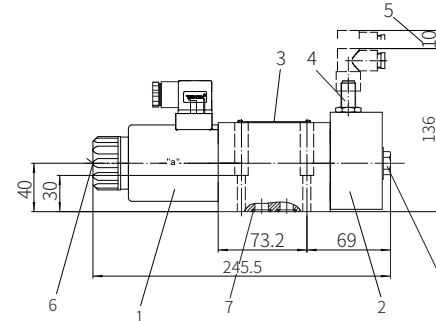


Required surface finishing of
mating components

Model 4WE10.../26... 3-position valve with DC or AC rectified solenoid

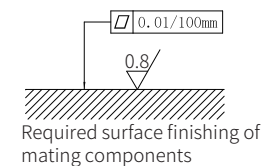


4WE10.../26... 2-position valve with DC or AC rectified solenoid



- 1 Solenoid
- 2 Transition cover
- 3 Name plate
- 4 High voltage proximity switch
- 5 Space required to remove the connector
- 6 Hidden manual emergency operation
- 7 O ring 10X2 (for oil ports P, A, B and T)
- 8 Plug for 2-position valve

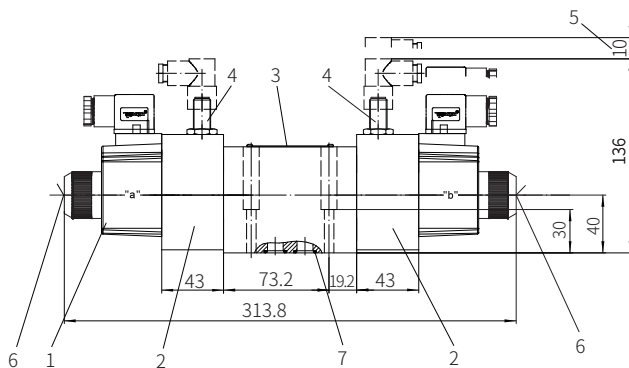
It must be ordered separately
if connection subplate is needed.
Subplate model:
G66/01(G3/8"); G66/02(M18x1.5)
G67/01(G1/2"); G67/02(M22x1.5)
G534/01 (G3/4"); G534/02(M27x2)



Required surface finishing of
mating components

Valve fixing screw
M6x40-10.9 grade GB/T70.1-2000
Tightening torque $M_A=13.7\text{Nm}$

Model 4WE10.../26... 3-position valve with AC solenoid



- 1 Solenoid
- 2 Transition cover
- 3 Name plate
- 4 High voltage proximity switch
- 5 Space required to remove the connector
- 6 Hidden manual emergency operation
- 7 O ring 10X2 (for oil ports P, A, B and T)
- 8 Plug for 2-position valve

Valve fixing screw

M6x40-10.9 grade GB/T70.1-2000

Tightening torque $M_A=13.7\text{Nm}$

It must be ordered separately if connection subplate is needed.

Subplate model:

G66/01(G3/8"); G66/02(M18x1.5)

G67/01(G1/2"); G67/02(M22x1.5)

G534/01 (G3/4"); G534/02(M27x2)

4WE10.../26... 2-position valve with AC solenoid

