Solenoid Operated Directional Valve with Emergency Handle Model: 4WEMM6(10).../...



Function description, sectional drawing

The WEMM directional valve is a directional spool valve operated by solenoid and control handle. It controls the opening, closing and flow direction of liquid flow.

It is mainly composed of valve body (1), one or two solenoids (2), valve spool (3), reset spring (4) and manual control device.

Solenoid operation:

When the solenoid is de-energized, the valve spool (3) is held in the middle or original position by means of the reset spring. The force of the solenoid (2) acts on the valve spool (3) to push it from the stationary position to the terminal position. In this way, the pressure oil flows from P to A and B to T, or from P to B and A to T. After the solenoid (2) is de-energized, the reset spring (4) pushes the valve spool (3) back to its original position.

Auxiliary handle operation:

When the solenoid is not energized, the valve spool (3) can be moved by operating the auxiliary handle. Turn the auxiliary handle (5) to the right so that the operating force acts on the valve spool (3) through the spindle (6), the ball valve core (7) and the guide sleeve (8) to move it to the left. When the auxiliary handle (5) returns to the zero position, the valve spool (3) returns to the original position under the action of the reset spring (9). 7 th 5 6



Technical parameters

Working pressure	Мра	port A, B, P to 35
T port pressure	Мра	to 16 (AC), to 21 (DC)
Medium		Mineral hydraulic oil or phosphate ester wave pressure oil
Viscosity range	mm²/s	2.5 to 500
Temperature range	°C	-30 to +80

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

For the characteristic curve and operating limit, please refer to the catalogue of WE solenoid directional valve.

Functional symbols





Component size

Size unit: mm



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