

Solenoid Operated Directional Multi-way Valve

Model: DCF6...1XJ



- ◆ Size 6
- ◆ Maximum working pressure 15 bar
- ◆ Maximum working flow 40 L/min

Contents

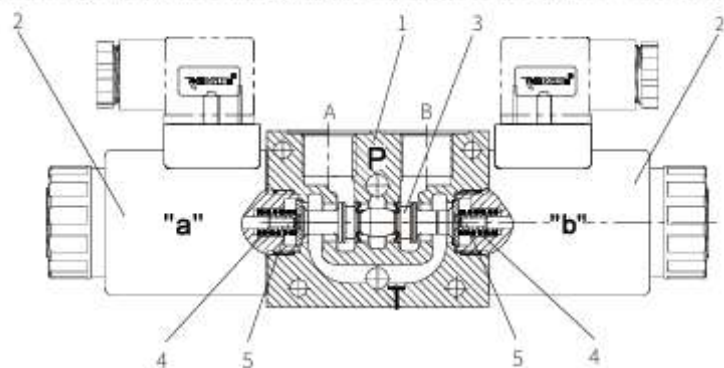
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Features

- Working port threaded connection
- Manual operated handle, optional
- Operated by solenoid
- Multiple units, optional
- Integrated relief valve
- Integrated hydraulic lock, optional

Function description, sectional drawing

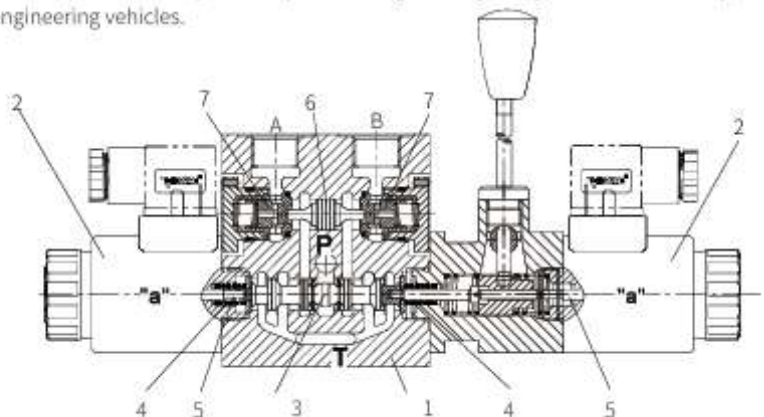
The DCF6...-1XJ...B(C)...type solenoid multi-way valve is composed of multiple solenoids operated sectional direction spool valves. It controls the opening, closing and direction of the flow. The valve mainly consists of the valve body (1), one or two solenoids (2), control spool (3) and two reset springs (4). The control spool (3) is held in the initial position by means of the reset springs (4) in the de-energized condition. The control spool (3) is operated by wet-pin solenoids (2). The force of the solenoids (2) acts on the control spool (3) through the push rod (5) to push it from the stationary position to the terminal position. In this way, the hydraulic oil passes from P to A and B to T, or from P to B and A to T. After the solenoids (2) are de-energized, the reset spring (4) pushes the control spool (3) back to the middle position.



Model DCF6J-1XJ/CG...B...

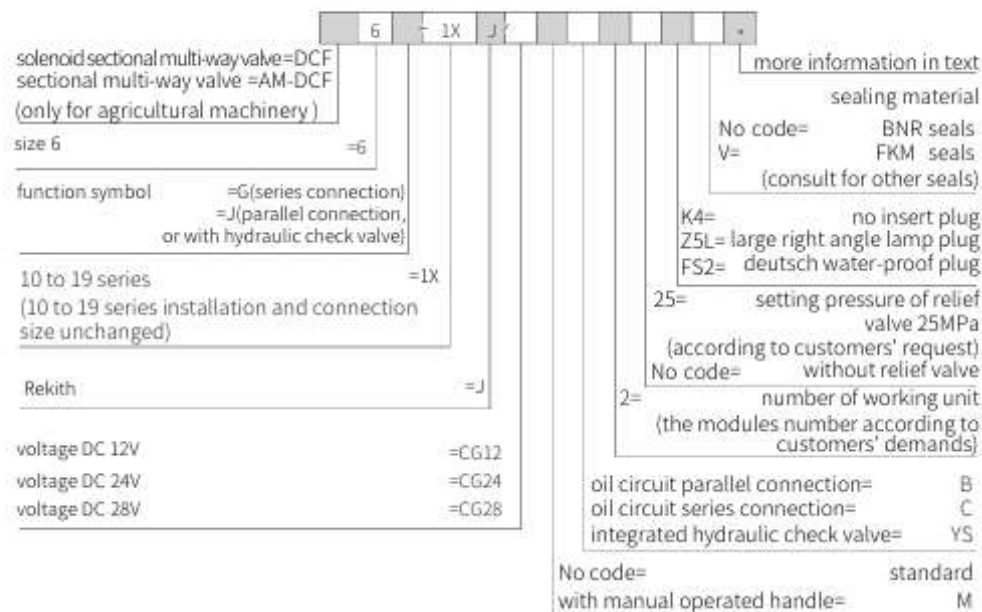
The principle of model DCF6...-1XJ/...YS...sectional solenoid multi-way valve is same as model DCF6...-1XJ/...B(C)... but integrated hydraulic lock in the directional valve. When P connected to A of the directional valve, the piston (6) moves to the right to open the conical valve core (7) and allow the fluid to return from B to T to form a circuit. When the solenoid is de-energized, the fluid of the directional valve returns to the tank through channel A and B, at this time, the working chamber A or B forms a holding pressure chamber until the control load remains stationary.

The DCF6 type solenoid multi-way valve adopts modular design, It can be customized oil inlet section with optional manual operated handle, and can add with relief and unloading and other functions as requirement. It is application for hydraulic system of large intelligent agricultural machinery, sanitation machinery, engineering vehicles.



Model DCF6J-1XJ/CG...YS...

Models and specifications



Technical parameters

Hydraulic			
Maximum working pressure	Port P, A, B	bar	315
	Port T	bar	160
Maximum flow		L/min	40
Fluid	Mineral oil (HL,HLP) according to DIN 51524 other fluid please consult with us		
Fluid temperature range		°C	-20...+80
Viscosity range		mm²/S	15...380
Maximum allowable pollution level of oil	ISO 4406 Class 20/18/15 ^{II}		
Electric			
Voltage available		v	DC12, DC24, DC28
Duty	Continue		
Switching time		[Time/h]	15000
Valve protection	IP65 or IP67 (for water-proof plug)		

⁴²The oil must meet the cleanliness degree requested by the components in the hydraulic system. Effective oil filtration can prevent failure and increase the service life of the components.