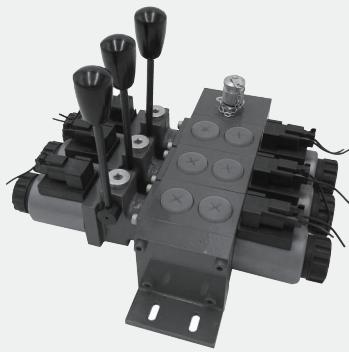


## Solenoid Operated Directional Multi-way Valve

Model: DCF6...1X



ГИДРООТВЕТ  
доступная гидравлика

- ◆ Size 6
- ◆ Maximum working pressure 315 bar
- ◆ Maximum working flow 40 L/min

### Contents

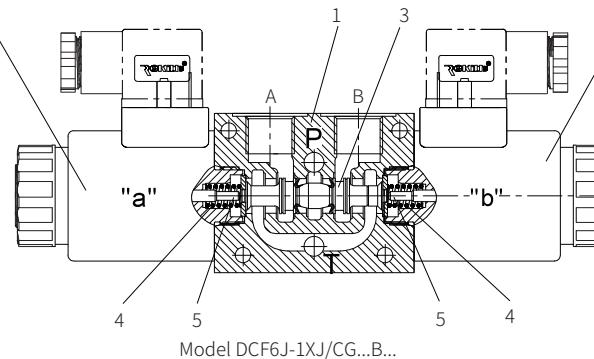
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### Features

- 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

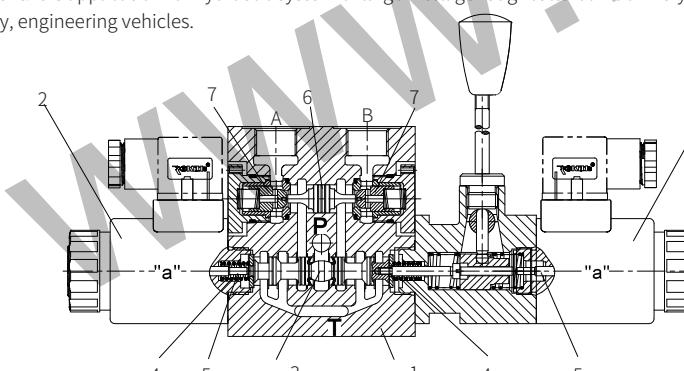
The DCF6...-1XJ...B(C)...type solenoid multi-way valve is composed of multiple solenoids operated sectional direction spool valves. It controls the opening, closing and direction of the flow. The valve mainly consists of the valve body (1), one or two solenoids (2), control spool (3) and two reset springs (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

6	1X	7						*
solenoid sectional multi-way valve=DCF								more information in text
sectional multi-way valve =AM-DCF								sealing material
(only for agricultural machinery )								
size 6	=6							
function symbol	=G(series connection)							
	=J(parallel connection, or with hydraulic check valve)							
10 to 19 series		=1X						
(10 to 19 series installation and connection size unchanged)								
voltage DC 12V								
voltage DC 24V								
voltage DC 28V								
	=CG12							
	=CG24							
	=CG28							
25=								setting pressure of relief valve 25MPa (according to customers' request)
No code=								without relief valve
2=								number of working unit (the modules number according to customers' demands)
oil circuit parallel connection=								B
oil circuit series connection=								C
integrated hydraulic check valve=								YS
No code=								standard
with manual operated handle=								M

## Technical parameters

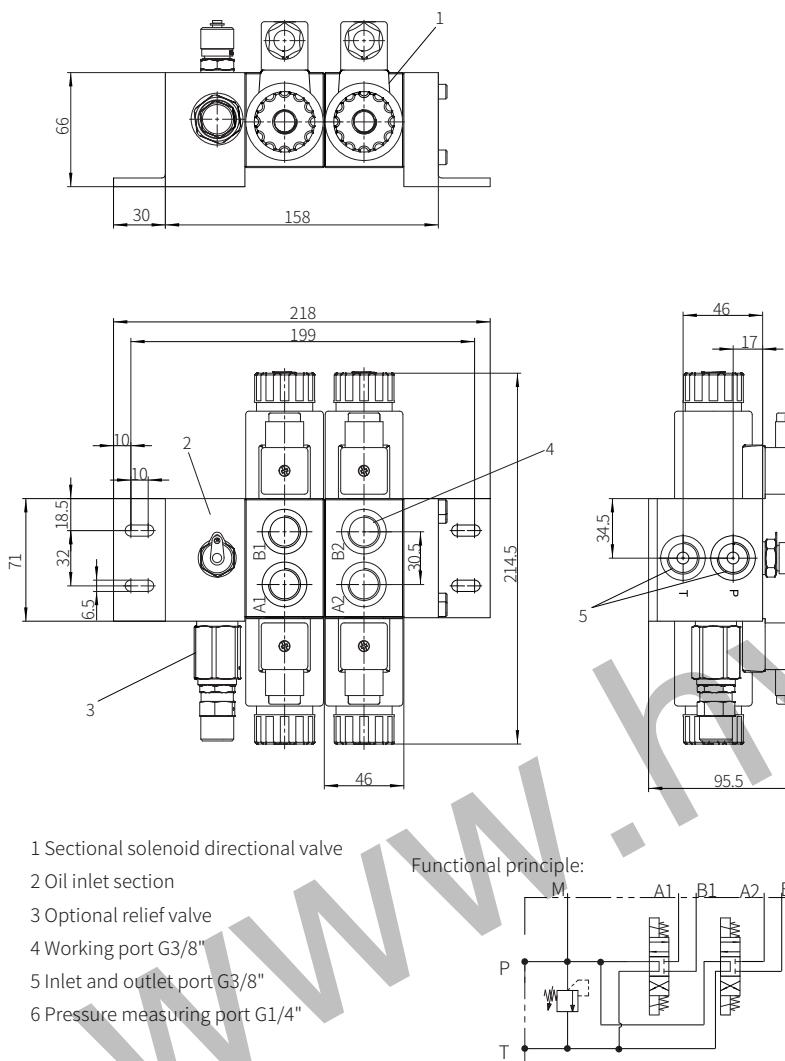
Hydraulic			
Maximum working pressure	Port P, A, B	bar	315
	Port T	bar	160
Maximum flow		L/min	40
Fluid			Mineral oil (HL,HLP) according to DIN 51524 other fluid please consult with us
Fluid temperature range		°C	-20...+80
Viscosity range		mm <sup>2</sup> /S	15...380
Maximum allowable pollution level of oil			ISO 4406 Class 20/18/15 <sup>1)</sup>
Electric			
Voltage available	v	DC12, DC24, DC28	
Duty		Continue	
Switching time	(Time/h)	15000	
Valve protection		IP65 or IP67 (for water-proof plug)	

<sup>1)</sup>The 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.

## Component size and functional principle

Size unit: mm

Model DCF6...-1XJ/...C...



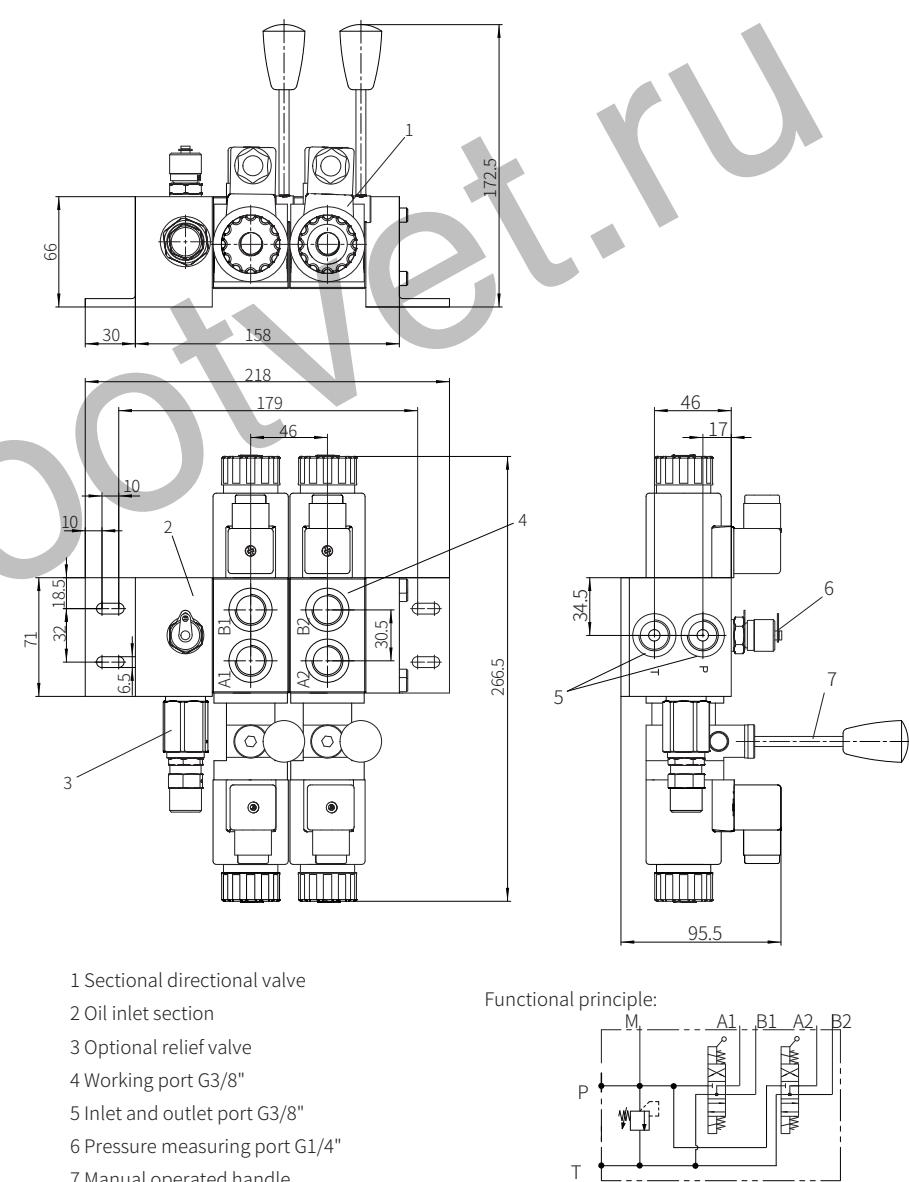
Note: The corresponding work units can be added according to the requirements from the customers.

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## Component size and functional principle

Size unit: mm

Model DCF6...-1XJ/...B...



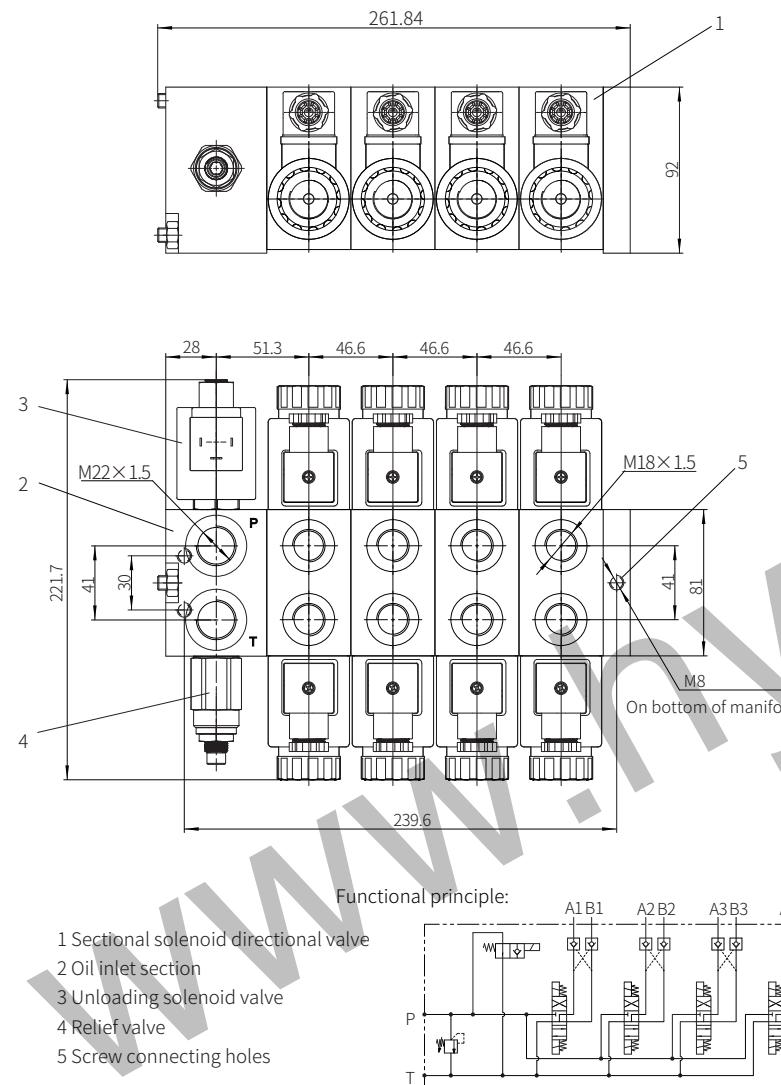
Note: The corresponding work units can be added according to the requirements from the customers.

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## Component size and Functional principle

Size unit: mm

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



## Component size and Functional principle

Size unit: mm

Model DCF6J-1XJ/...MYS...

