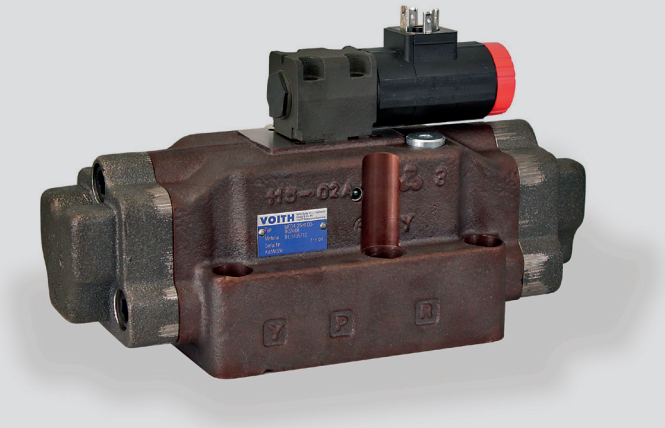
4/2, 4/3 Directional Control Valve, NG 25 ISO 4401, Pilot NG 4, ISO 4401, vertical

Technical Data Sheet



- Pilot controlled piston valve
- High switching power
- Short switching time
- Energy saving due to minimized flow resistivity
- With internal or external pilot oil supply
- Easy service: solenoid can be changed without leakage while the valve is under system pressure
- Solenoids can be rotated 3 x 90°, allowing alternative connector positions

Technical Data

General

Type of valve	piston valve	
Operation	electric	
Mounting	6 x M12 x 60 DIN912	
Connection of ports	mounting plate	
Mounting positions	any position	
Ambient temperature	-5 to +50 °C	
Mass valve	10.5 kg	

Hydraulic

Operating pressure P,A,B	max. 280 bar	
Operating pressure T	max. 150 / 280*** bar	
Pilot pressure range	15 bis 120 bar	
Pilot volume oil	4/3 valves: 2x 8,3 cm^3 4/3 valves: 9,6 cm^3	
Hydraulic oil temperature	-10 to +70 °C	
Viskosity range	10 to 300 mm^2/s	
Max. flow	450 l /min	

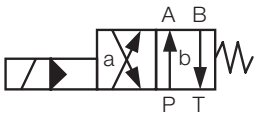
Electric

Voltage (±10%)	24 V DC	230V, 50Hz AC
Switching time off*	50 ms	50 ms
Switching time off**	60 ms	40 ms
Power consumption P20	28 W	
Start up peak P20		35 VA
Duty factor	100%	100%
Protective system DIN 40050	IP65 at connected valve plug	

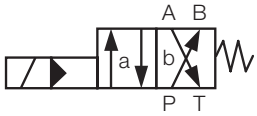
* at 24V DC ± 5%
** at terminal voltage = -50V at free circuit
*** at external pilot oil drain

Symbol

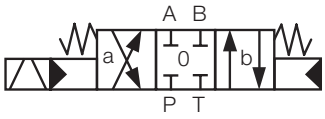
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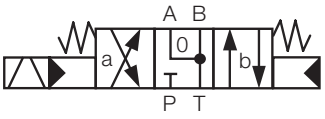
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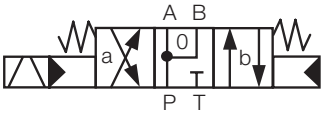
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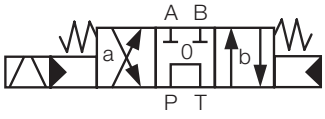
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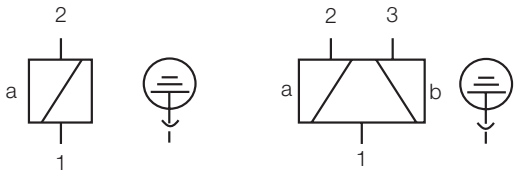
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7



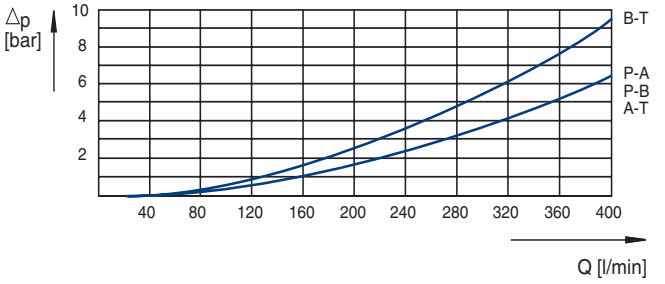
Electrical Connection



Options

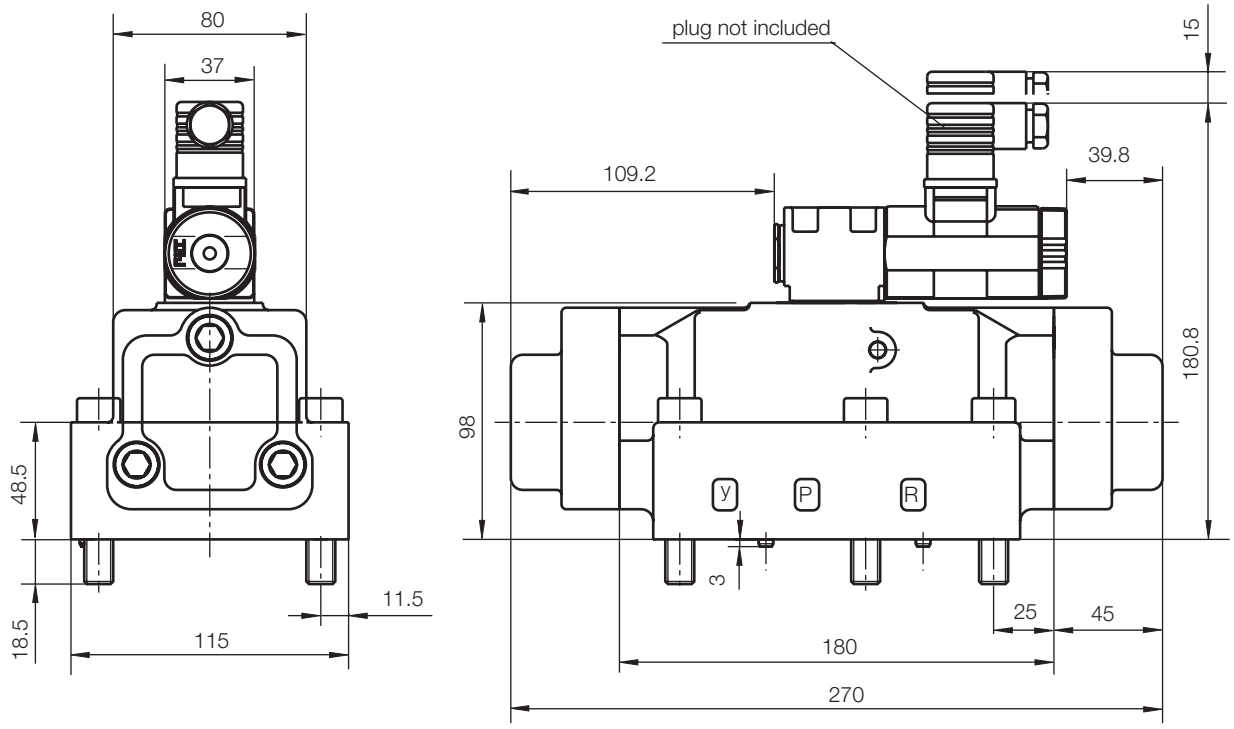
- Alternative voltages
- Alternative symbols - data sheet: 14607-DSH
- Alternative plugs
- Adjustable switching delay
- Electric monitoring of the spool position
- Stroke limitation (replace one-way restrictor)

Characteristic Curve



hydraulic oil 35 mm^2/s, 50°C

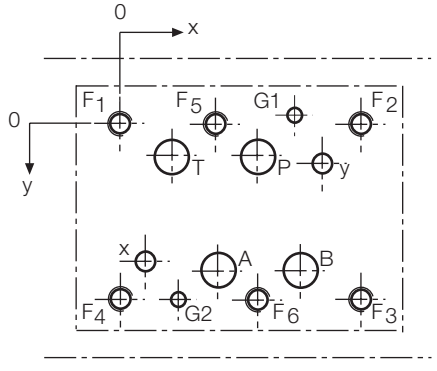
Dimensional Drawing



fastening screws are not included,
6x M12x65 DIN 912 - 10.9, MA = 80 Nm

all dimensions in mm

Port Connection Pattern



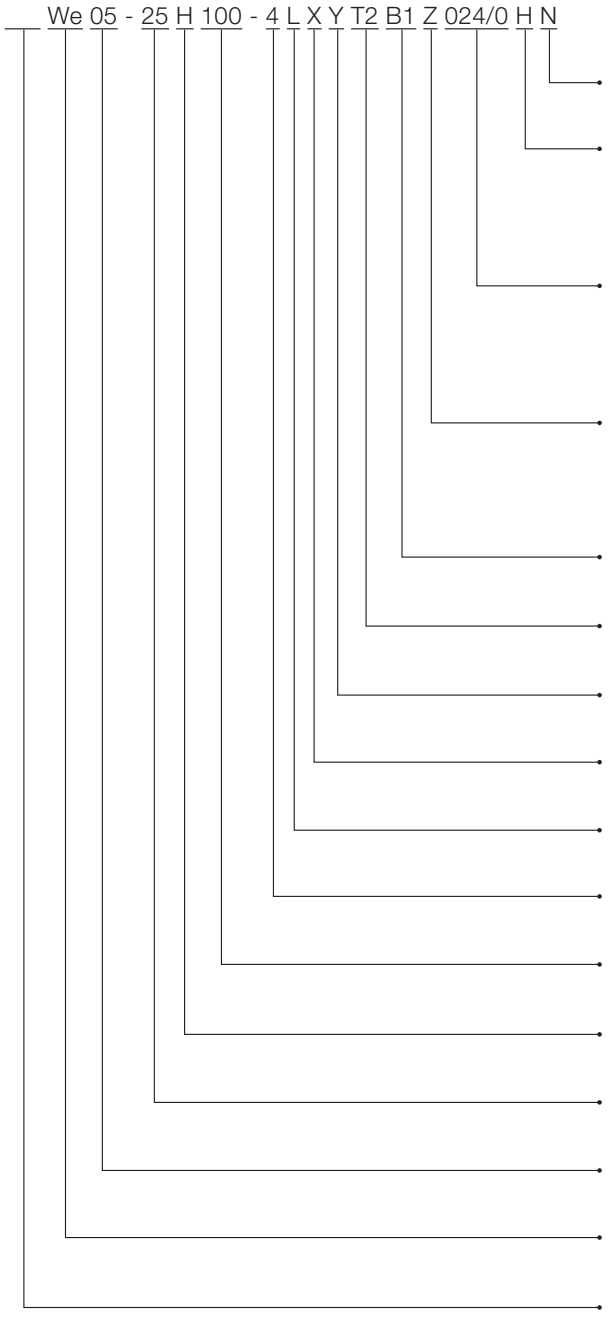
view: fastening side of mounting plate

	P	A	T	B	x	y	F1	F2	F3	F4	F5	F6	G1	G2
Ø max [mm]	25	25	25	25	11.2	11.2	-	-	-	-	-	-	7.5	7.5
x [mm]	77	53.2	29.4	100.8	17.5	112.7	0	130.2	130.2	0	53.2	77	94.5	29.4
y [mm]	27.5	74.6	17.5	74.6	73	19	0	0	92.1	92.1	0	92.1	-4.8	92.1

F: M12, thread depth min. 1.5 x Ø;
G: bore hole depth min. 1,5 x Ø
x and y: only at external control.

Various single and multiple mounting plates are available.

Type Code



manual emergency operation

electric interface
H = plug DIN 43650, design A
M = plug M12

power supply
024/0 = 24V DC
220/5 = 230V/50Hz

solenoid type
R = single solenoid
Z = double solenoid

stroke limitation

adjustable switching time

pilot oil drain extern

pilot oil supply extern

design pilot valve

nominal size pilot valve

design code

mounting

design

symbol

directional control valve, electric operated

material number

20141-WV25_4L-DSH-EN-1601 | VTHL | Dimensions and illustrations without obligation. Subject to modifications.

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