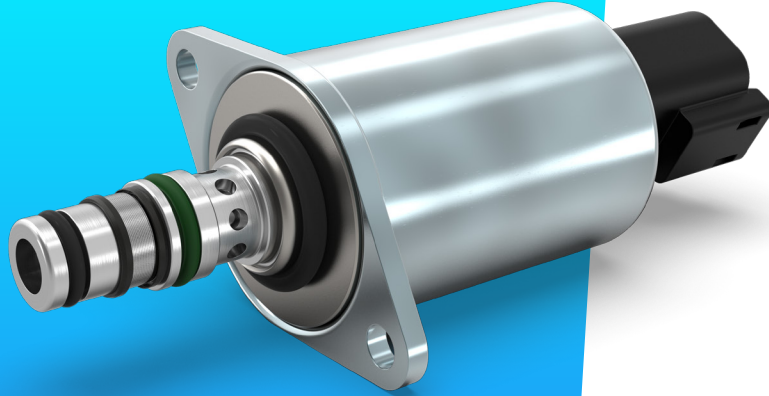


Directional Control Valve DCSD05 – On/Off NG



Product classification

Name	Max volume flow @ 6 bar dp
DCSD 04	7 l/min
DCSD 05	10 l/min
DCSD 06	15 l/min
DCSD 09	30 l/min

Proportional
valves

**Directional
valves**

Smart
products

Special
designs



Hydraulic Data

Max pressure pump	$P_p = 50$ bar (30 bar in case of manual override)
Max pressure tank	$P_T = 30$ bar
Max pressure work	$P_A = 50$ bar
Contamination level	Min Filtration: 20/18/15 According to ISO 4406
Fluid	Mineral Oil According to DIN 51524
Temperature range fluid	-30°C to +105°C
Leakage (internal)	< 0,05 l/min (de-energized) < 0,05 l/min (energized)
Filterscreen size	125 µm (P-Port)

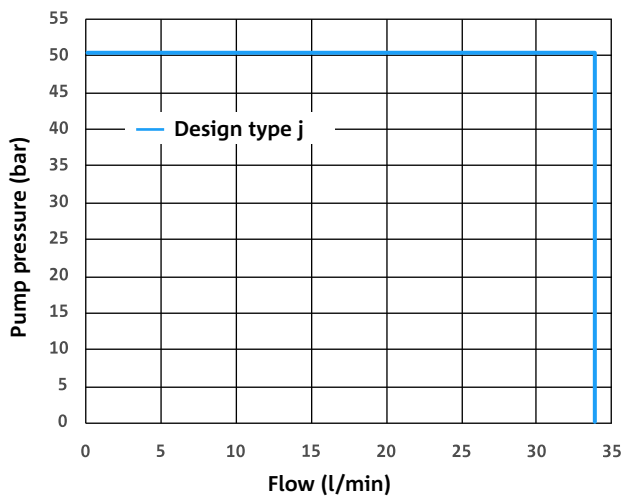
* The reported data are measured @ $P_p=50$ bar and an oil viscosity of 32 cSt

Electrical Data

Voltage	12 V	24 V
Resistance (DT04)	8,15 Ω ± 5%	32,5 Ω ± 5%
Resistance (AMP)	4,72 Ω ± 5%	20,8 Ω ± 5%
Current range	0 to 1500 mA	0 to 750 mA
Voltage supply	9 to 16 V	18 to 32 V
Type of control	Current control PWM 180 Hz recommended Direct voltage control possible for high resistance coil	
Connector	AMP Junior timer Deutsch Connector DT04-2P	
Protection class	up to IP6K6 / IPX9K	
Switching times	$t_{on} < 60$ ms (pA = 0% to 90%) $t_{off} < 100$ ms (pA = 100% to 10%)	

Switching limits (average characteristic)

Switching limit for port assignment type j



Additional data

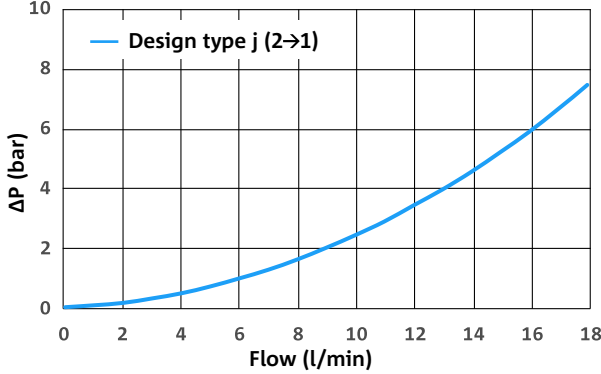
Weight	approx. 175 g
Mounting position (recommended)	any
MTTF _d -value	150 years
Reference	Valve specifications according to Thomas LHP 84



Flow characteristics (Average characteristic)

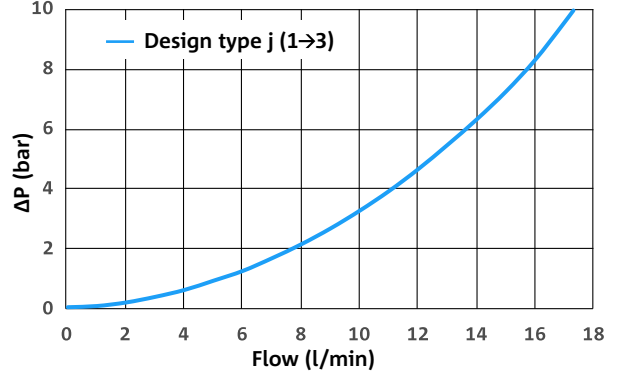
PRESSURE DROP AT DE-ENERGIZED STATE

Valve only



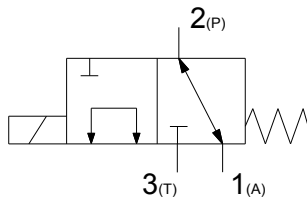
PRESSURE DROP AT ENERGIZED STATE

Valve only



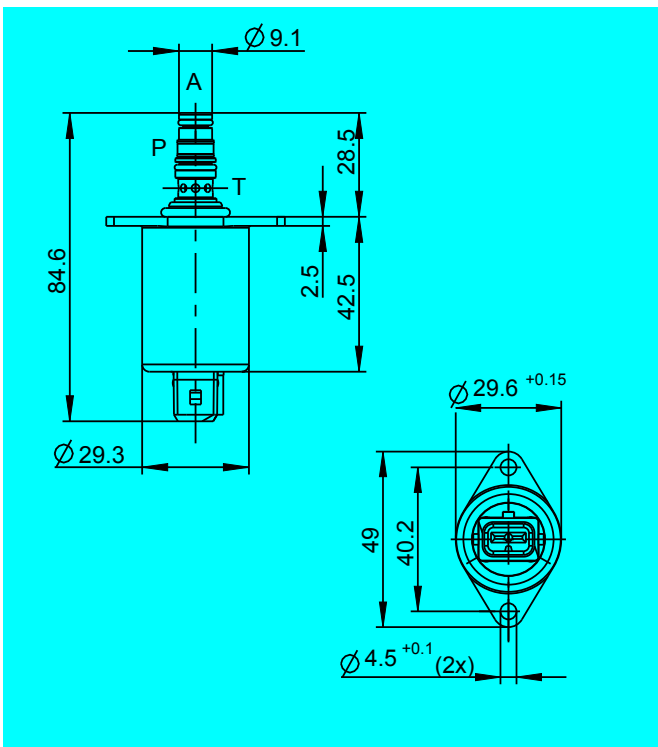
Hydraulic schematic

Design type j



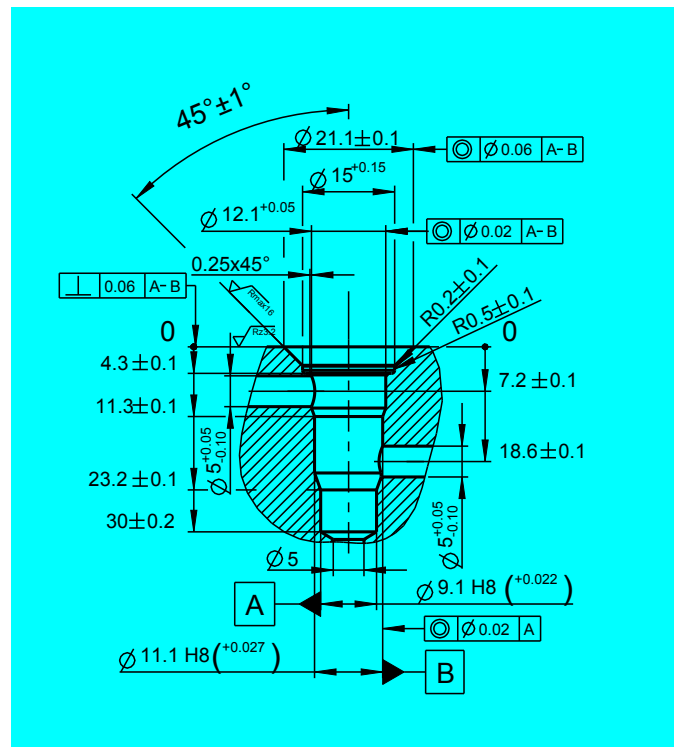
Dimensions with AMP Connector*

(All dimensions in mm)



Cavity Dimensions

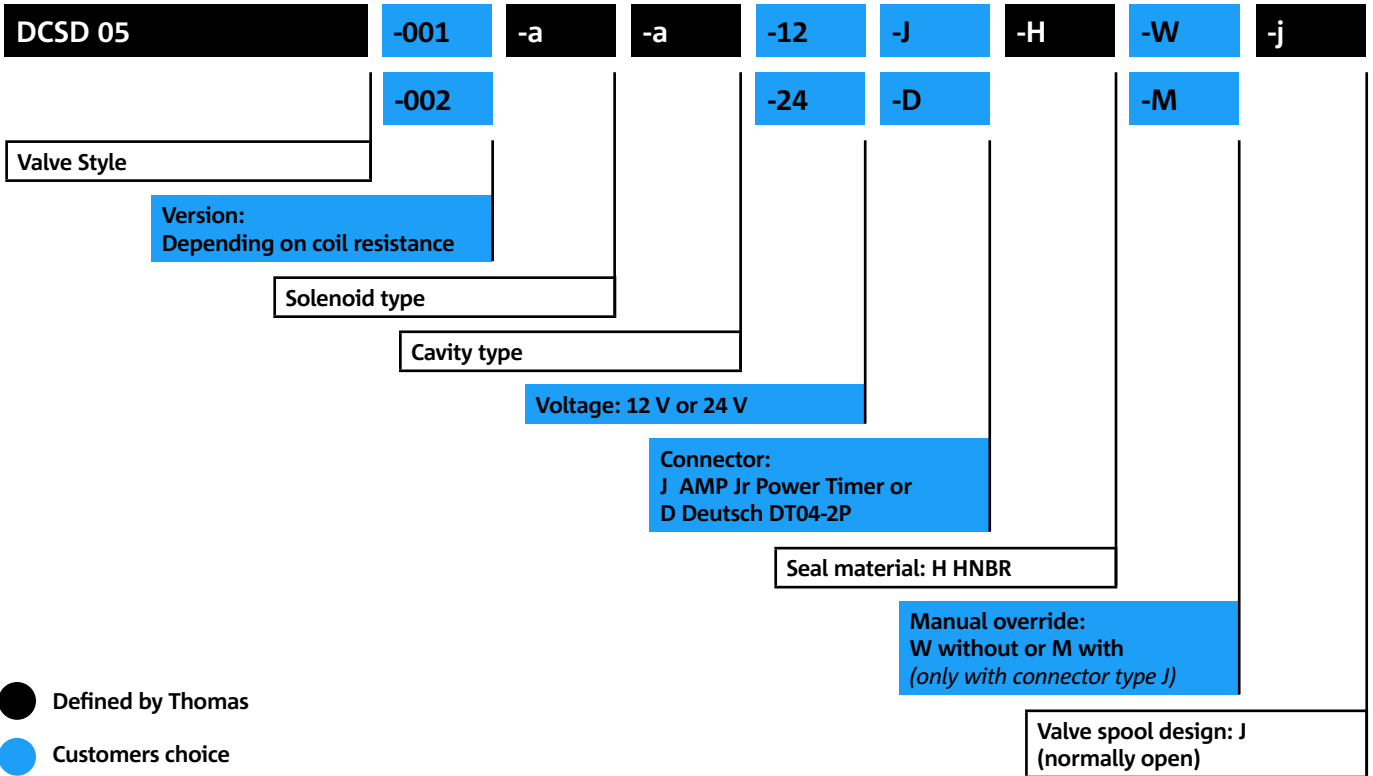
(All dimensions in mm)



* Dimensions for Deutsch Connector DT04-2P available on request.



Model code



- Defined by Thomas
- Customers choice

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