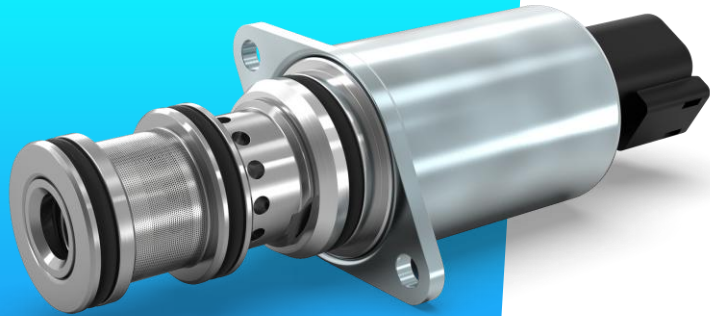


NG-DCSD09

On/Off Valve



Product classification

Name	Max volume flow @ 6 bar dp
DCSD05	10 l/min
DCSD06	15 l/min
DCSD09	30 l/min

Proportional
valves

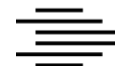
**Directional
valves**

Smart
products

Special
designs

Benefits

- ≡ **Energy efficient:**
 - ≡ Low pressure drop
 - ≡ Low holding current
- ≡ **Proportional valve for the same cavity available**



Hydraulic Data

Max pressure pump	$P_p = 50$ bar
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)*	< 0,08 l/min (de-energized) < 0,08 l/min (energized)
Filterscreen size	140 µm (P-Port)

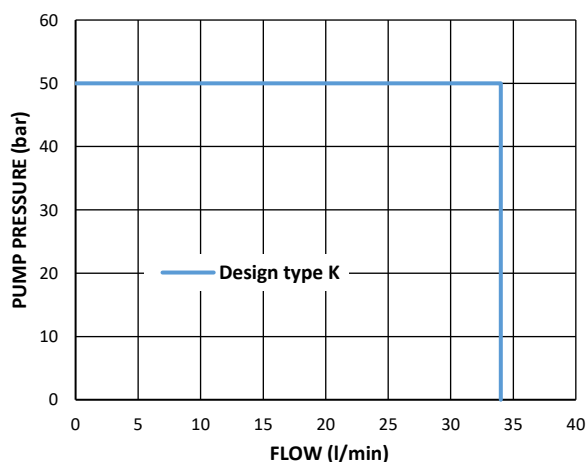
* The reported data are measured @ $P_p = 42$ bar
and an oil viscosity of 32 cSt

Additional data

Weight	Approx. 230 g
Mounting position	Any
MTTF _d -value	150 years According to ISO 13849-2 C1, C2
Reference	Valve specification according to Thomas LHP 99

Switching limits (Average characteristic)

SWITCHING LIMITS FOR THE PREFERRED PORT ASSIGNMENT

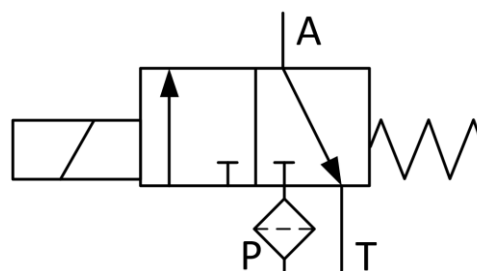


Electrical Data

Voltage	12 V	24 V
Max current	1500 mA	750 mA
Resistance	8,15 Ω ± 5%	32,5 Ω ± 5%
Voltage supply	9 to 16V	18 to 32 V
Pull-in current	700 mA	350 mA
Drop-off current	200 mA	100 mA
Control signal	Pure DC	
Connector	Deutsch Connector DT04-2P	
Protection class	Up to IP6K6 / IPX9K	
Switching time	$t_{on} < 60$ ms (pA = 0% to 90%) $t_{off} < 100$ ms (pA = 100% to 10%)	

Hydraulic schematic

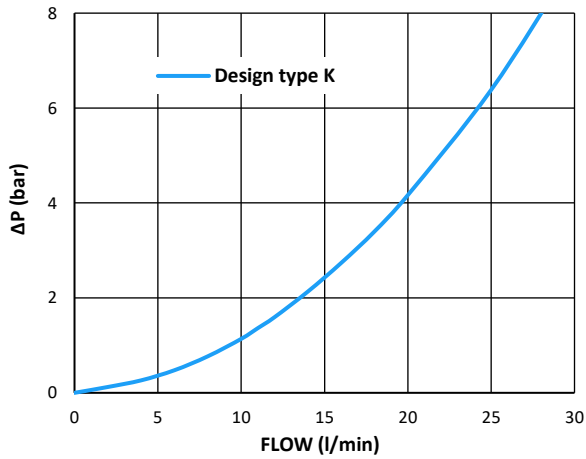
DESIGN "K"



Flow characteristics (Average characteristic)

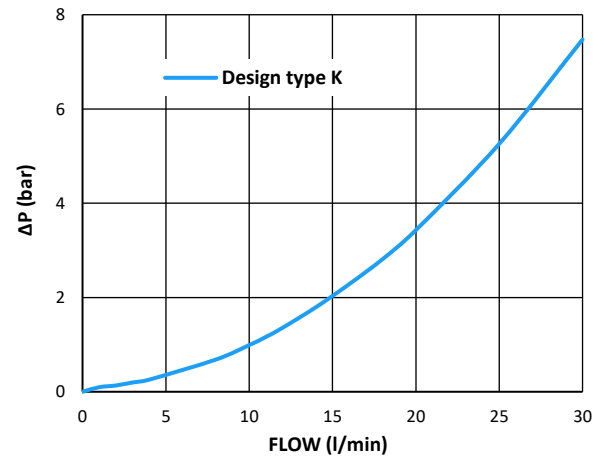
PRESSURE DROP AT DE-ENERGIZED STATE (A→T)

Valve only



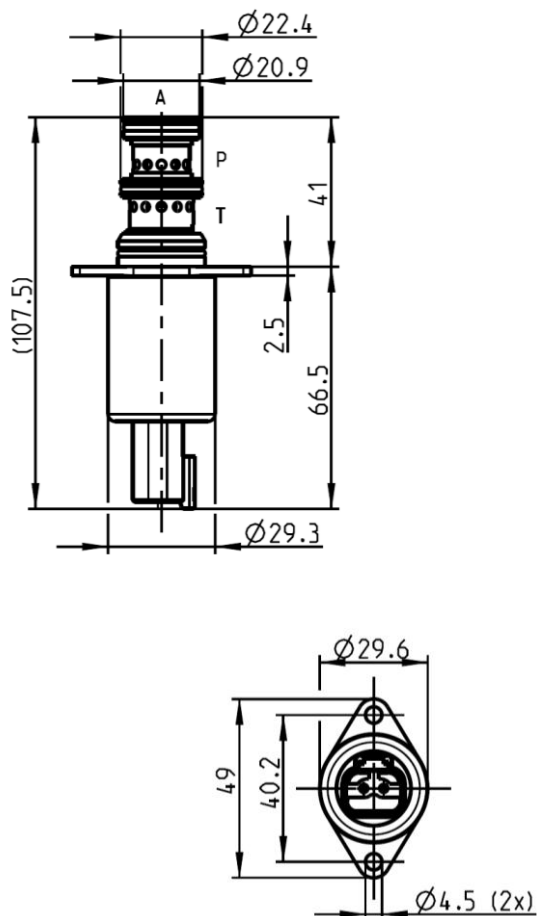
PRESSURE DROP AT ENERGIZED STATE (P→A)

Valve only



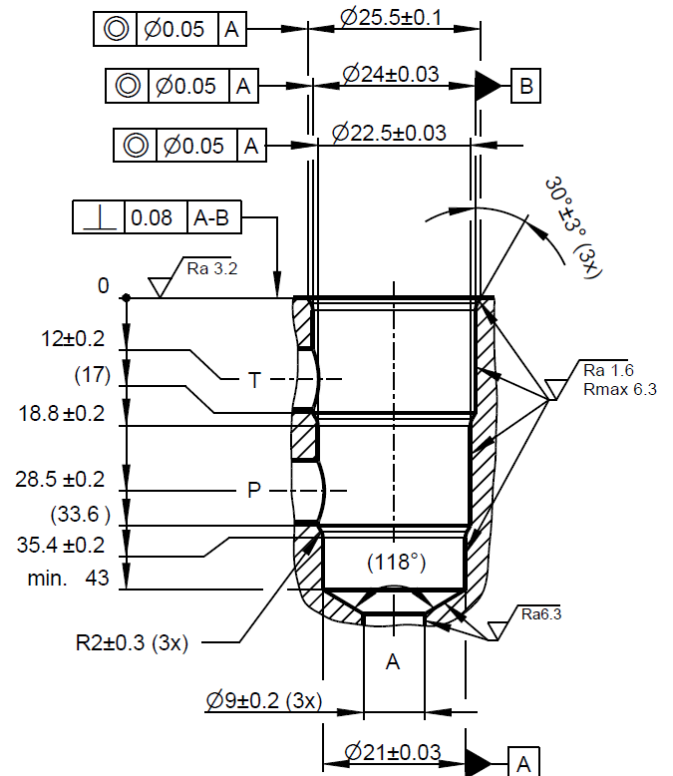
Dimensions with Deutsch Connector*

(All dimensions in mm)



Cavity Dimensions

(All dimensions in mm)





Model Code

DCSD09	-001	-a	-v	-12	-D	-N	-W	-K
				-24				
Valve style								
Version								
Solenoid type								
Cavity type								
				Voltage: 12 V or 24 V				
					Connector: D Deutsch DT04-2P			
						Sealing material: N NBR		
							Manual override: W without	
								Valve spool design: K normally closed

- Defined by Thomas
- Customers choice

DISCLAIMER



The presented information is based on current knowledge and provides only non-binding information to the customer. Any liability in connection with this information is excluded. It is the responsibility of the customer to determine the suitability and appropriateness of the product for his intended purpose. We reserve the right to change the product with regard to technical progress and new developments.

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