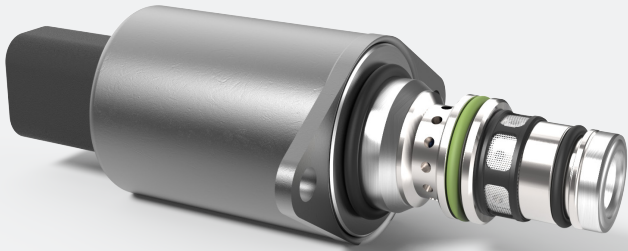


# Directional Control Valve DCSD06 – On/Off NG



## PRODUCT CLASSIFICATION

Directional valves

Proportional valves

Smart products

Special designs

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

## HYDRAULIC DATA

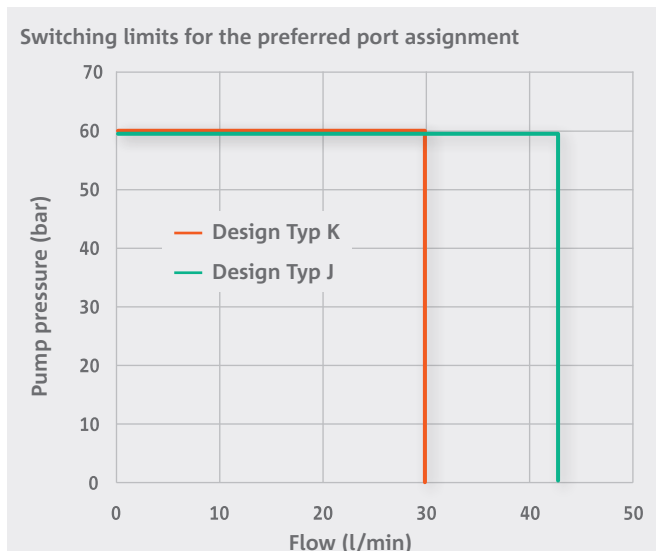
Max pressure pump	$P_p = 60$ bar
Max pressure tank	$P_T = 60$ bar
Max pressure work	$P_A = 50$ bar
Contamination level	Min Filtration: 21/19/14 According to ISO 4406
Fluid	Mineral Oil According to DIN 51524
Temperature range fluid	-30°C to +105°C
Leakage (internal)	< 0,04 l/min (de-energized) < 0,04 l/min (energized)
Filterscreen size	140 $\mu$ m (P-Port)

\* The reported data are measured @  $P_p=41$  bar and an oil viscosity of 32 cSt

## ELECTRICAL DATA

Voltage	12 V	24 V
Resistance	8,15 $\Omega \pm 5\%$	32,5 $\Omega \pm 5\%$
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	
Connector	AMP Junior timer Deutsch Connector DT04-2P	
Protection class	up to IP6K6 / IPX9K	
Switching times	$t_{on} < 45$ ms (pA = 0% to 90%) $t_{off} < 45$ ms (pA = 100% to 10%)	

## SWITCHING LIMITS (AVERAGE CHARACTERISTIC)



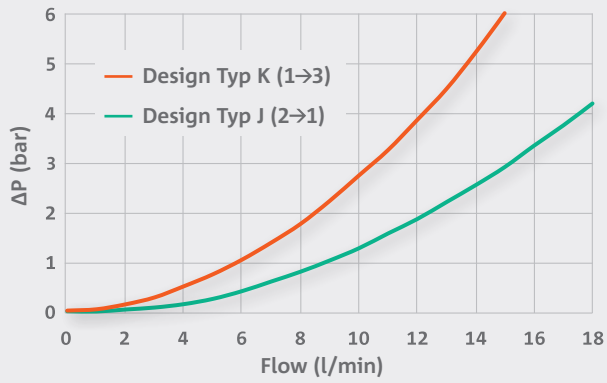
## ADDITIONAL DATA

Weight	approx. 235 g
Mounting position (recommended)	any
MTTF <sub>d</sub> -value	150 years
Reference	Valve specifications according to Thomas LHP 87

## FLOW CHARACTERISTICS (AVERAGE CHARACTERISTIC)

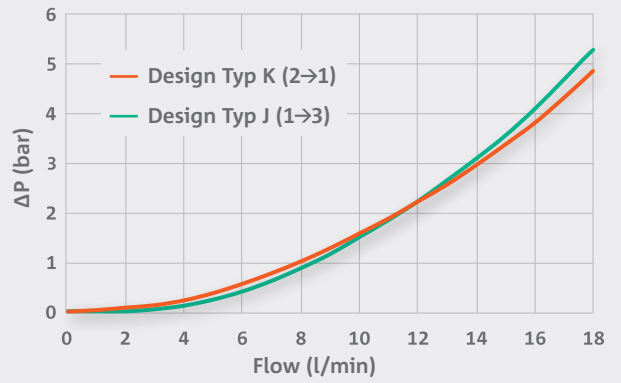
### PRESSURE DROP AT DE-ENERGIZED STATE

Valve only



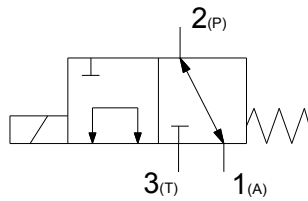
### PRESSURE DROP AT ENERGIZED STATE

Valve only

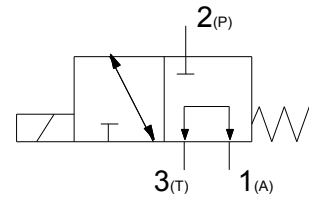


## HYDRAULIC SCHEMATIC

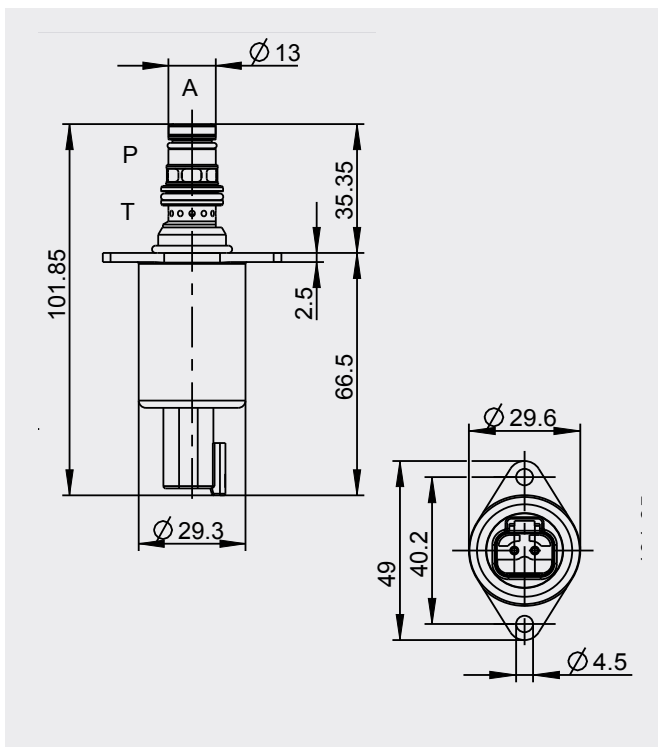
Design „J“



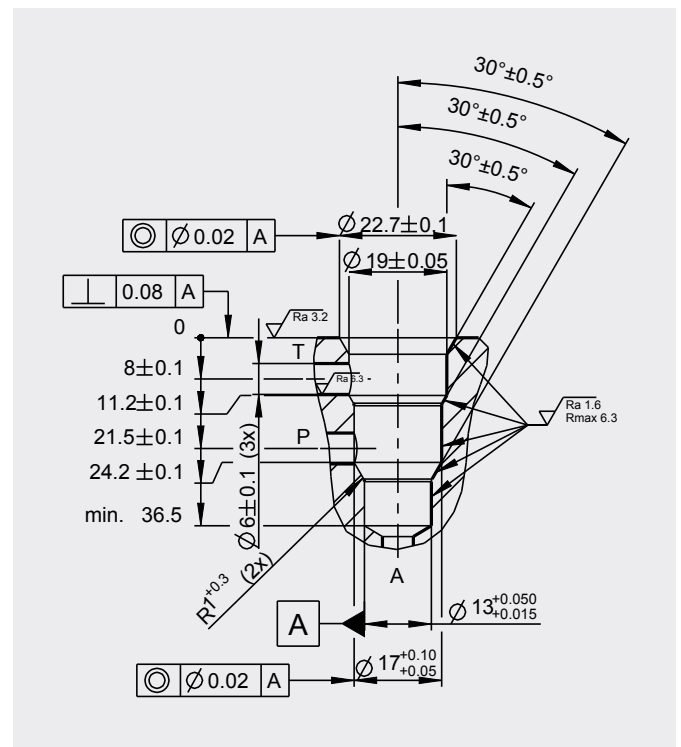
Design „K“



## DIMENSIONS WITH DEUTSCH CONNECTOR\* (All dimensions in mm)



## CAVITY DIMENSIONS (All dimensions in mm)



\* Dimensions for AMP Jr. Connector available on request.

### MODEL CODE

DCSD 06	-001	-a	-k	-12	-D	-H	-W	-j
				-24				-k

Valve Style

Version

Solenoid type

Cavity type

Voltage: 12 V or 24 V

Connector: D Deutsch DT04-2P

Seal material: F FKM

Manual override: W without

Valve spool design:  
j normally open  
k normally closed

- Defined by Thomas
- Customers choice

### CONTACT DETAILS

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