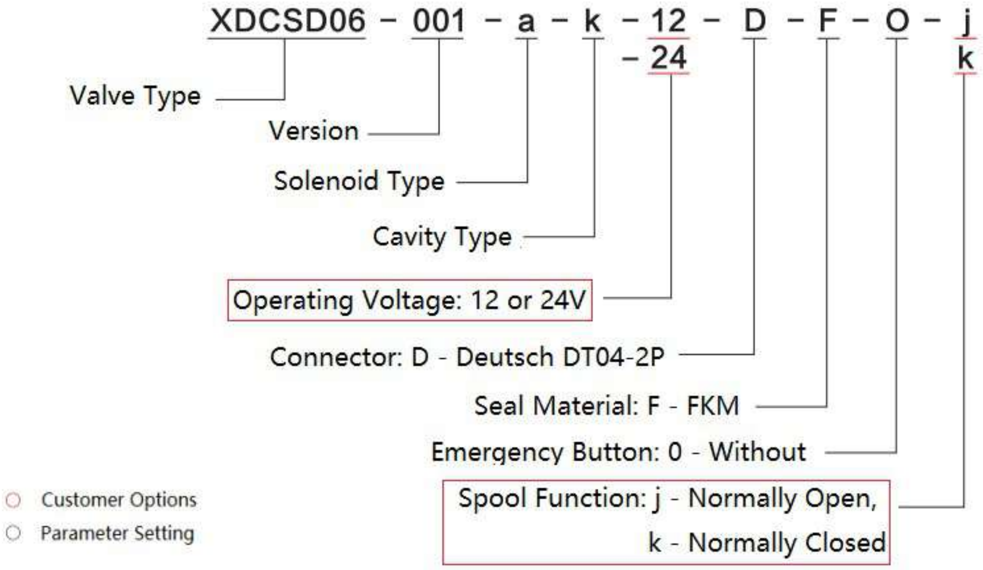

XDCSD06 – 001 – a – k – 12 – D – F – O – j
– 24
k
Valve Type
Version
Solenoid Type
Cavity Type
Operating Voltage: 12 or 24V
Connector: D - Deutsch DT04-2P
Seal Material: F - FKM
Emergency Button: 0 - Without
Spool Function: j - Normally Open,
k - Normally Closed
○ Customer Options
○ Parameter Setting

Hydraulic Parameters	
Maximum Supply Pressure	PP = 60 bar
Maximum Return Pressure	PT = 60 bar
Maximum Working Pressure	PA = 50 bar
Maximum Allowable Fluid Contamination Level	ISO 4406 21/19/14
Working Medium	Mineral oil, compliant with DIN 51524 standard
Operating Fluid Temperature Range	-30 ° C to 100 ° C
Internal Leakage	< 0.04 L/min (de-energized) < 0.04 L/min (energized)
Filter Screen Specification	140 μm (Port P)

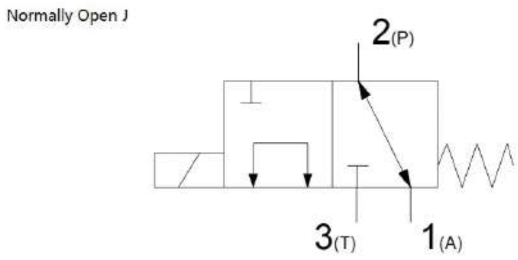
* Related test conditions: Pp=41 bar, Fluid viscosity 32 cSt.

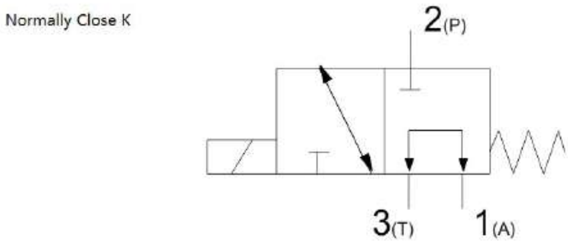
Electrical Parameters		
Operating Voltage	12V	24V
Operating Voltage Range	9-16V	18-32V
Operating Current Range	0-1500mA (max)	0-750mA (max)
Coil Resistance at 20℃ (DT04)	8.15Ω ±5%	32.5Ω ±5%
Coil Resistance at 20℃ (AMP)	4.72Ω ±5%	20.8Ω ±5%
Control Method	Current Control: PWM Drive Frequency: 180 Hz (Recommended)	
Connector	AMP Junior Timer, Deutsch DT04-2P	
Protection Rating	Up to IP6K6 / IPX9K	
Response Time	t on < 45 ms (pA = 0% to 90%) t off < 45 ms (pA = 100% to 10%)	

Product Overview

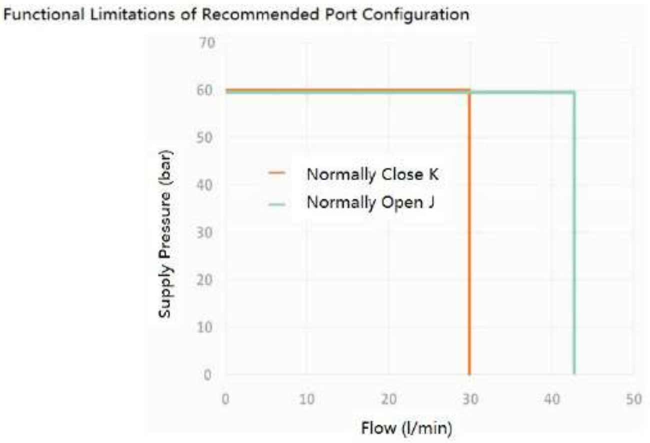
The XDCSD06 series is a high-performance direct-acting proportional pressure control valve, engineered for pilot control in mobile hydraulic systems. It delivers stable and precise pressure regulation via PWM signal, with fast response, low hysteresis and ultra-low internal leakage. Designed for harsh working environments, it features high protection ratings, wide operating temperature range and long service life, making it widely used in construction machinery, agricultural equipment, special vehicles and electro-hydraulic actuator systems.

Hydraulic schematic

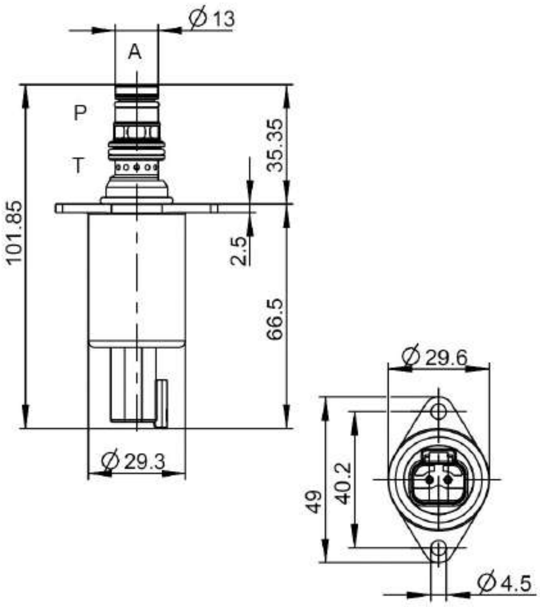

Normally Open J
2(P)
3(T)
1(A)


Normally Close K
2(P)
3(T)
1(A)

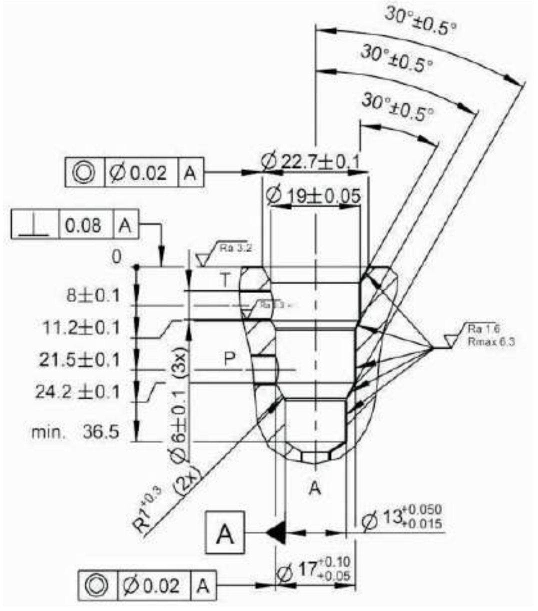
Functional Limitations (averyage characteristic)



Outline dimensions with Deutsch connector (Unit: mm)


Ø13
A
P
T
101.85
35.35
2.5
66.5
Ø29.3
Ø29.6
49
40.2
Ø4.5

Cavity dimensions (Unit: mm)


30°±0.5°
30°±0.5°
30°±0.5°
Ø0.02 A
Ø22.7±0.1
Ø19±0.05
0.08 A
Ra 3.2
0
8±0.1
11.2±0.1
21.5±0.1
24.2 ±0.1
min. 36.5
T
P
(3x)
Ø6±0.1
(2x)
R7+0.3
Ra 1.6
Rmax 6.3
A
A
Ø13+0.050 +0.015
Ø17+0.10 +0.05
Ø0.02 A