

Proportional Pressure Control Valve PPCD05-NG PPRV



Product classification

Name	Max volume flow @ 6 bar dp		
PPCD 03	1,25 l/min		
PPCD 04	2,5–5 l/min		
PPCD 05	10 l/min	- Direct controlled	
PPCD 06	15 l/min		
PPCD 08	20 l/min		
PPCD 09	30 l/min		
PPCP 09	35 l/min	Pilot operated	
PPCP 13	72 l/min		

Proportional valves









Hydraulic Data

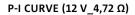
Max pressure pump	P _p = 50 bar	
Max pressure tank	P _T = 30 bar	
Max pressure work	P _A = 30 bar	
Hysteresis	< 3 % of the nominal pressure at recommended type of control	
Contamination level	Min Filtration: X/20/18 According to ISO 4406	
Fluid	Mineral Oil According to DIN 51524	
Temperature range fluid	-30°C to +105°C	
Leakage (internal)*	< 0,03 l/min (de-energized) < 0,25 l/min (energized)	
Filterscreen size	140 μm (P-Port)	

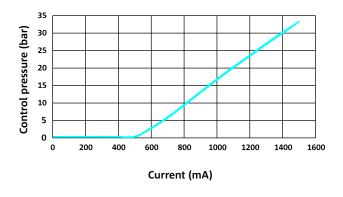
Electrical Data

Voltage	12 V	24 V	
Max current	1500 mA 750 mA		750 mA
Resistance	4,72 Ω ± 5%	8,15 Ω ± 5%	20,8 Ω ± 5%
Type of control	PWM signal > 1000 Hz + superimposed dither 120 Hz (200 mA peak to peak) recommended		
Connector	AMP Junior timer Deutsch Connector DT04-2P		
Protection class	up to IP6K6 / IPX9K		
Switching time	t _{on} < 40 ms (pA = 0% to 90%) t _{off} < 40 ms (pA =100% to 10%)		

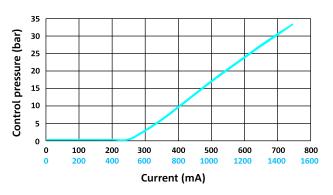
 $^{^{\}ast}$ The reported data are measured @ $\mathrm{P_{p}}\text{=}41$ bar and an oil viscosity of 32 cSt

Current vs. Pressure (average characteristic)



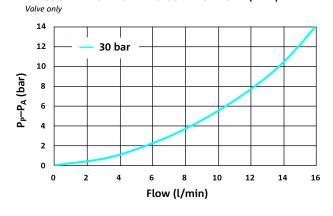


P-I CURVE (24 V_8,15 Ω / 24 V_20,8 Ω)



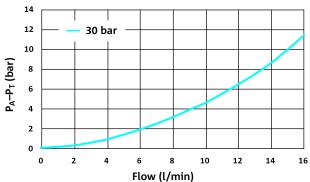
Flow characteristics (Average characteristic)

PRESSURE DROP PUMP TO CONTROL PORT (P→A)



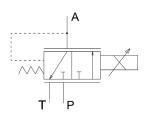
PRESSURE DROP CONTROL PORT TO TANK (A \rightarrow T)

Valve only





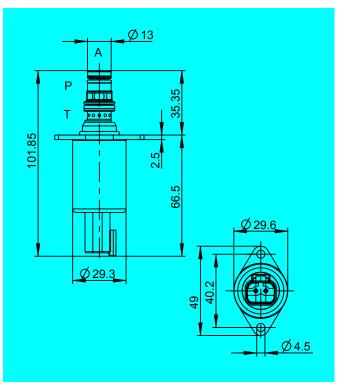
Hydraulic schematic



Additional data

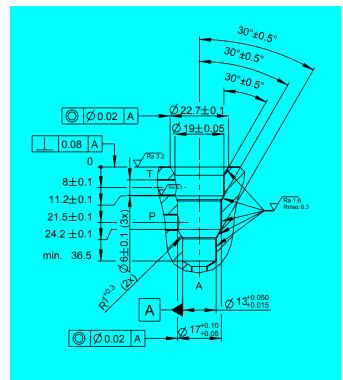
Weigth	approx. 235 g
Mounting position (recommended)	any
MTTF _d -value	150 years
Reference	Valve specifications according to Thomas LHP 86

Dimensions with Deutsch Connector* (All dimensions in mm)



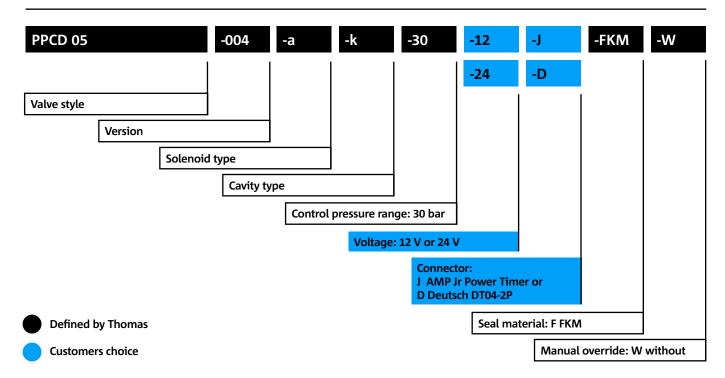
* Dimensions for AMP Jr. Connector available on request.

Cavity Dimensions (All dimensions in mm)





Model code





DISCLAIMER

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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.