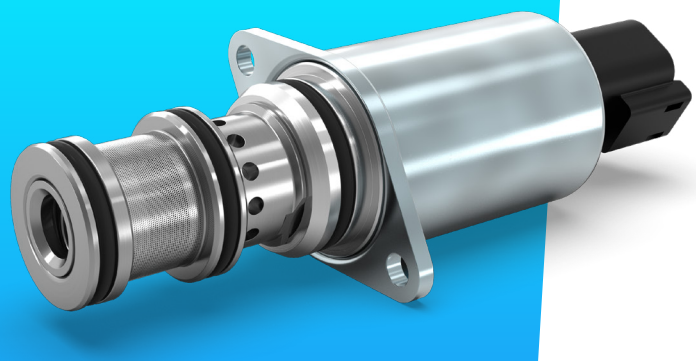
Proportional Pressure Control Valve PPCD09–NG PPRV HF



Proportional valves

Directional valves

Smart products

Special designs

Product classification

Name	Max volume flow @ 6 bar dp	
PPCD 03	1,25 l/min	Direct controlled
PPCD 04	2,5–5 l/min	
PPCD 05	10 l/min	
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	

Hydraulic Data

Max pressure pump	P_P = 50 bar
Max pressure tank	P_T = 30 bar
Max pressure work	P_A = 22 bar
Hysteresis	Typical 0,5 - 1,2 bar depending on control signal
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)*	< 0,08l/min (de-energized) < 0,4 l/min (energized)
Filterscreen size	*(P-Port) - tbd.*

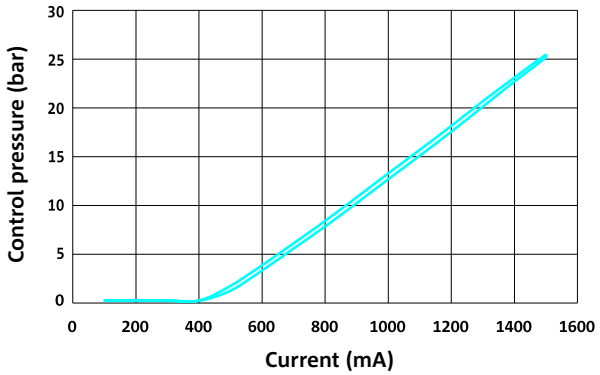
Electrical Data

Voltage	12 V	24 V	
Max current	1500 mA	**1400 mA**	750 mA
Resistance	4,72 Ω ± 5%	8,15 Ω ± 5%	20,8 Ω ± 5%
Type of control	Recommended: Dither 100 Hz (Amplitude PTP: 300mA @ 12V 150mA @ 24V)		
Connector	AMP Junior timer (except 8,15 Ω-coil) Deutsch Connector DT04-2P		
Protection class	up to IP6K6 / IPX9K		
Switching time	t_{on} < 45 ms (pA = 0% to 90%) t_{off} < 45 ms (pA =100% to 10%)		

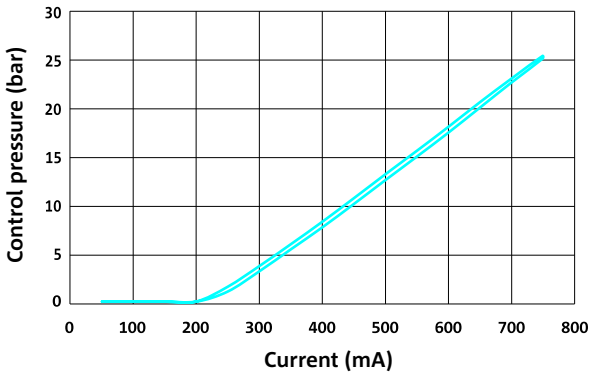
* The reported data are measured @ P_p= 35 bar and an oil viscosity of 32 cSt

Current vs. Pressure (Average characteristic)

P-I CURVE (12 V)

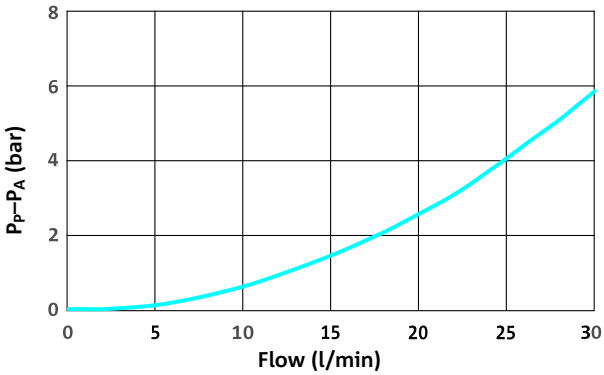


P-I CURVE (24 V)

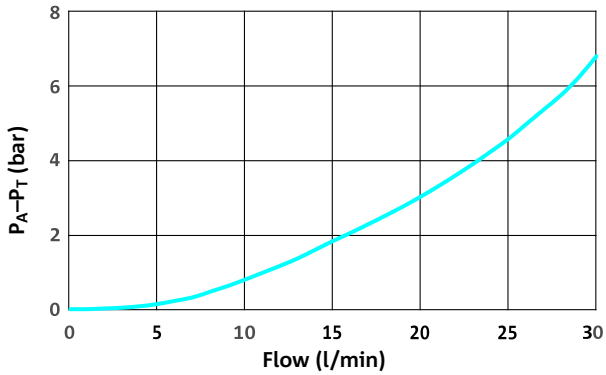


Flow characteristics (Average characteristic)

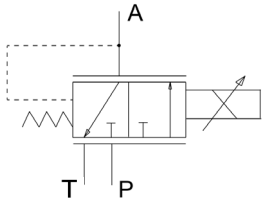
PRESSURE DROP PUMP TO CONTROL PORT (P→A)



PRESSURE DROP CONTROL PORT TO TANK (A→T)



Hydraulic schematic

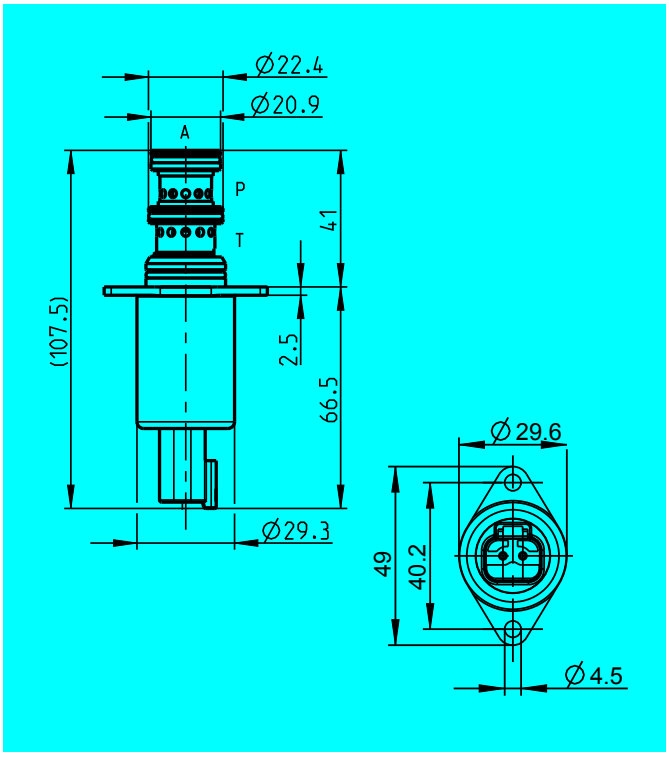


Additional data

Weigth	approx. 230 g
Mounting position (recommended)	any
MTTF$_d$-value	150 years
Reference	Valve specifications according to Thomas LHP 95

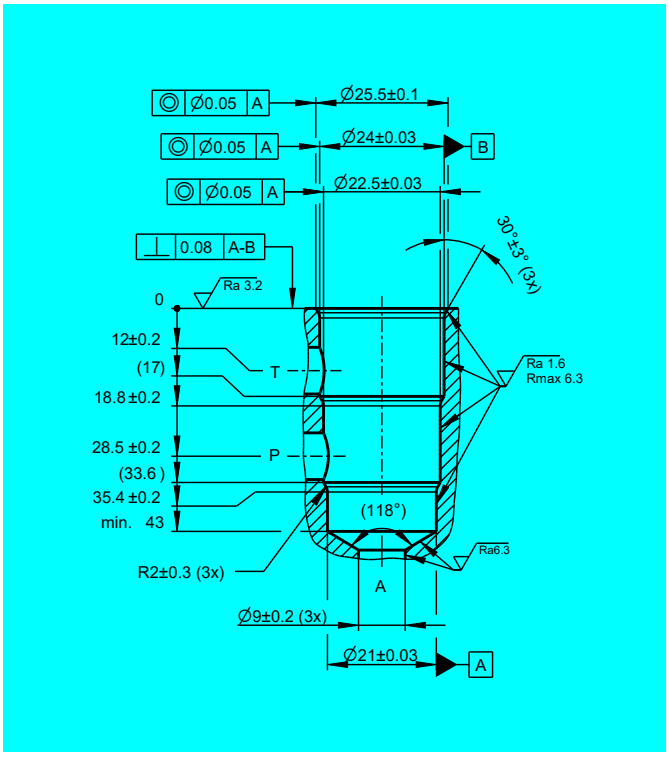
Dimensions with Deutsch Connector*

(All dimensions in mm)



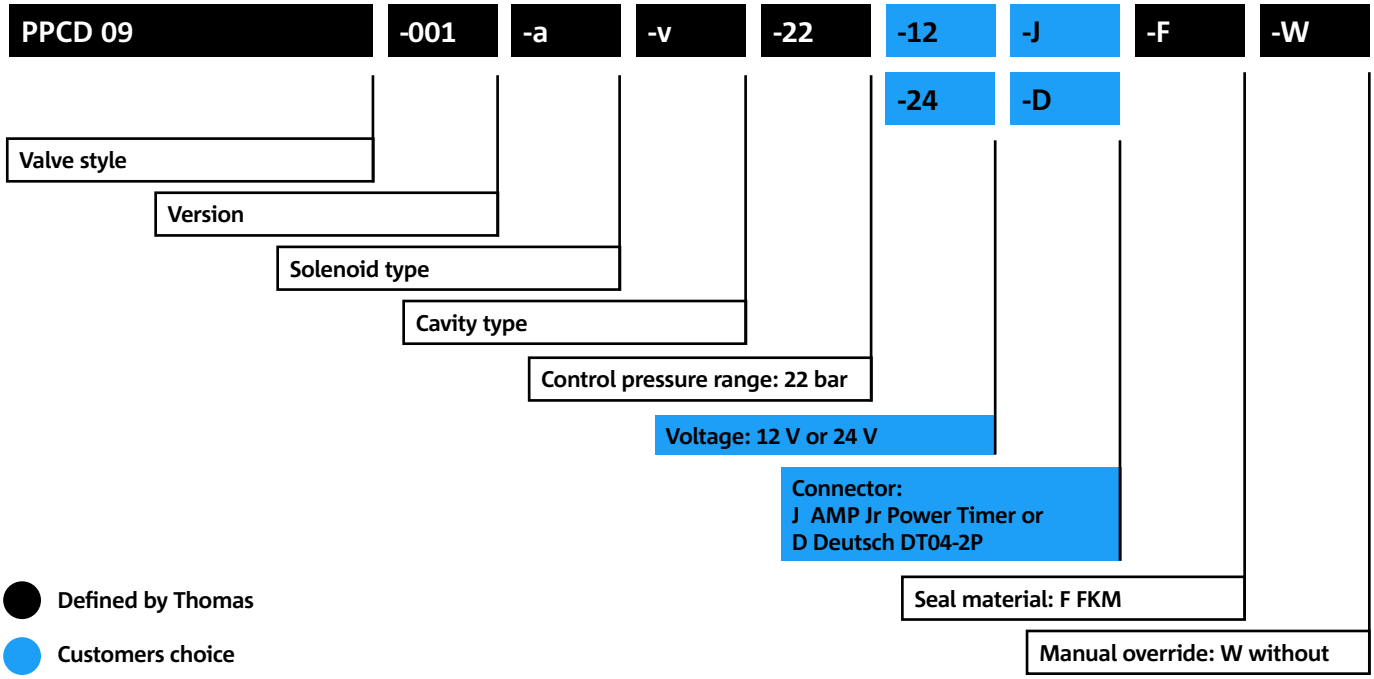
Cavity Dimensions

(All dimensions in mm)



* Dimensions for AMP Jr. Connector available on request.

Model code



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