NG-PPCD09
Proportional Valve



Proportional valves

Directional valves

Smart products

Special designs

Product classification

Name	Max volume flow @ 6 bar dp	
PPCD03	1,25 l/min	Direct controlled
PPCD04	2,5-5 l/min	
PPCD05	10 l/min	
PPCD06	15 l/min	
PPCD08	20 l/min	
PPCD09	**30 l/min**	
PPCP09	35 l/min	Pilot operated
PPCP13	72 l/min	

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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	150 µm (P-Port)

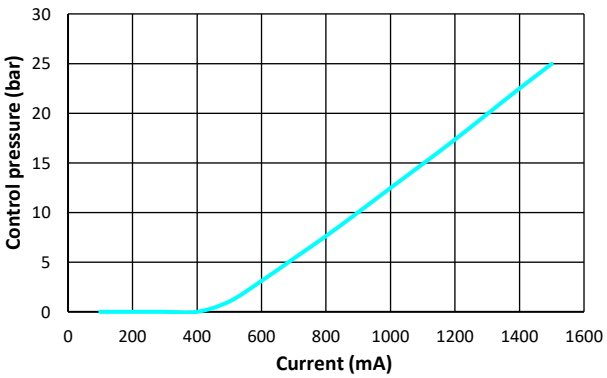
Electrical Data

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%)		

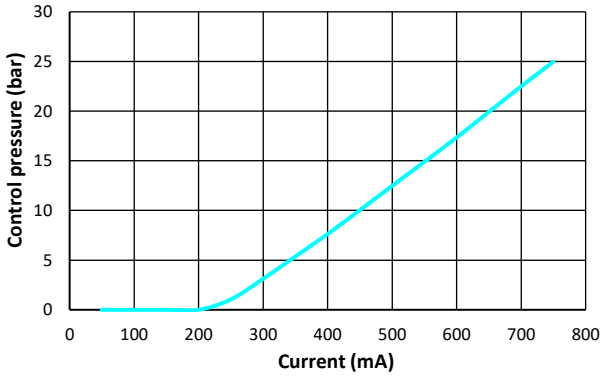
* The reported data are measured @ P_p= 35 bar and an oil viscosity of 32 cSt

Current vs. Pressure (Average characteristic)

P-I CURVE (12 V)

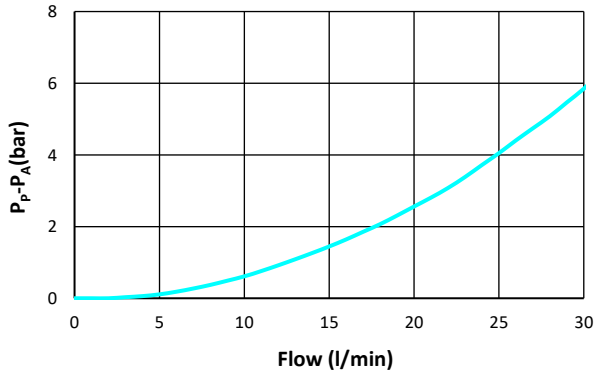


P-I CURVE (24 V)

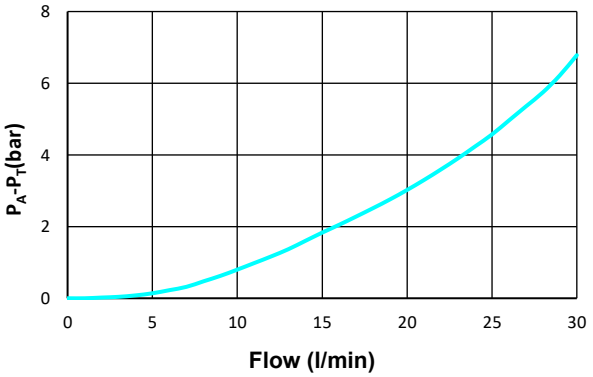


Flow characteristics (Average characteristic)

PRESSURE DROP PUMP TO CONTROL PORT (P→A)

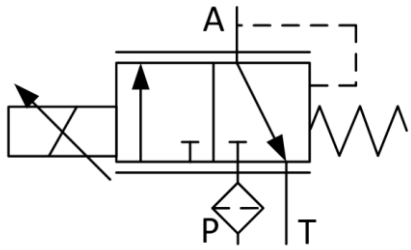


PRESSURE DROP CONTROL PORT TO TANK (A→T)



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Hydraulic schematic

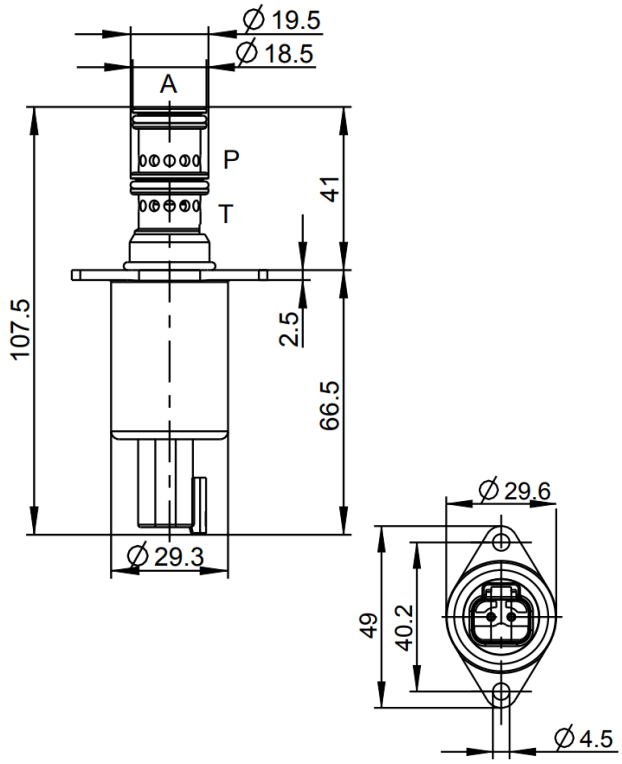


Additional data

Weigth	Approx. 230 g
Mounting Position (recommended)	any
MTTFd-value	150 years
Reference	Valve specification according to Thomas LHP 95

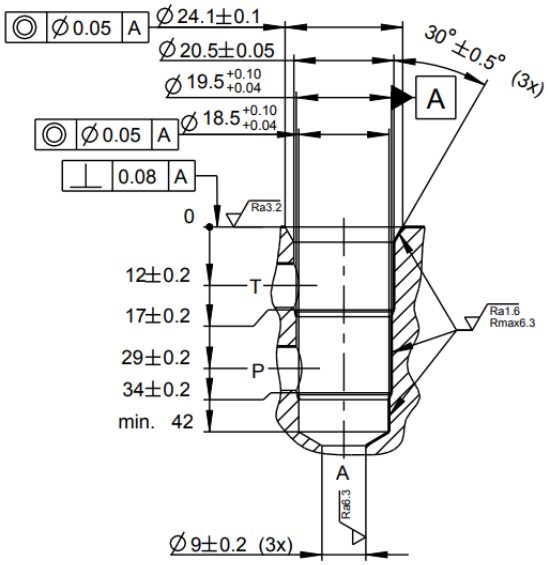
Dimensions with Deutsch Connector*

(All dimensions in mm)



Cavity Dimensions

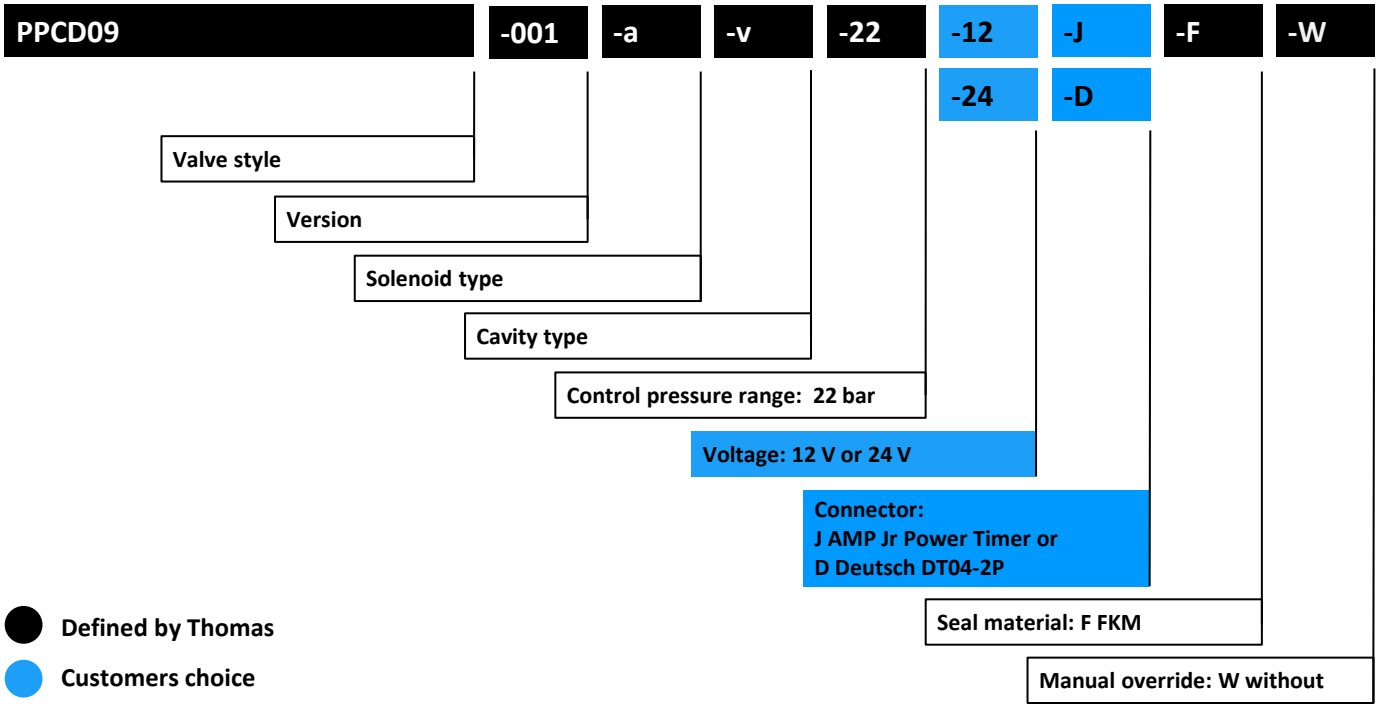
(All dimensions in mm)



*Dimensions for AMP Jr. Connector available on request

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Model code



DISCLAIMER

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