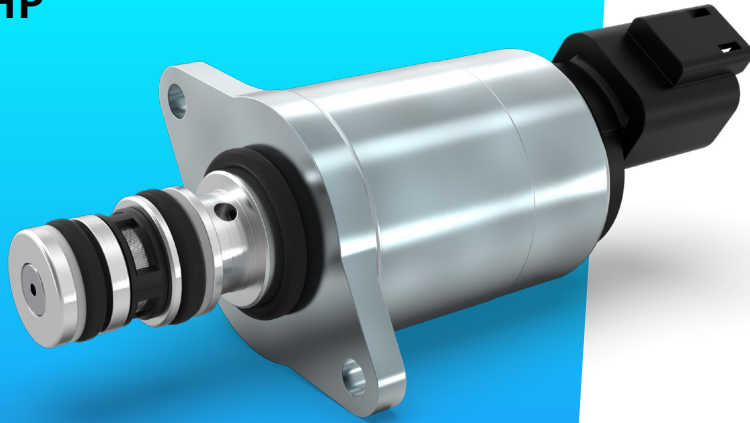


Proportional Pressure Control Valve PPCD04 – PPRV HTHP



Proportional
valves

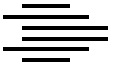
Directional
valves

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	Pilot operated
PPCP 09	35 l/min	
PPCP 13	72 l/min	



Hydraulic Data

Max pressure pump	$P_p = 350 \text{ bar}$
Max pressure tank	$P_T = 210 \text{ bar}$ (statically)
Max pressure work	$P_A = 20, 25 \text{ or } 32 \text{ bar}$
Hysteresis	< 4 % of the nominal pressure at 100 Hz PWM 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)*	< 0,4 l/min (de-energized) < 0,8 l/min (energized)
Filterscreen size	125 μm (P-Port)

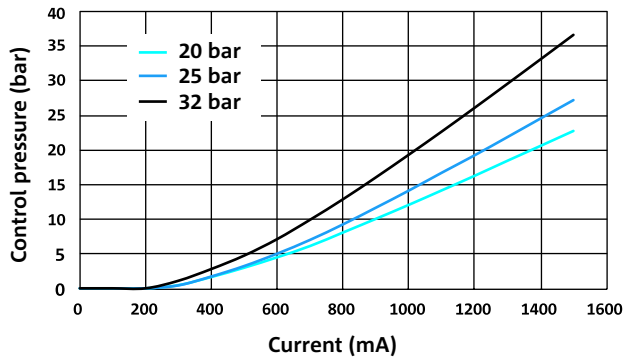
Electrical Data

Voltage	12 V	24 V
Max current	1500 mA	750 mA
Resistance	5,3 $\Omega \pm 5\%$	21,2 $\Omega \pm 5\%$
Type of control	Current control PWM 100 Hz recommended	
Connector	AMP Junior timer Deutsch Connector DT04-2P	
Protection class	up to IP6K6 / IPX9K	
Switching time	$t_{on} < 50 \text{ ms}$ (pA = 0% to 90%) $t_{off} < 50 \text{ ms}$ (pA = 100% to 10%)	
Switching times	$t_{on} < 50 \text{ ms}$ (pA = 0% to 90%) $t_{off} < 50 \text{ ms}$ (pA = 100% to 10%)	

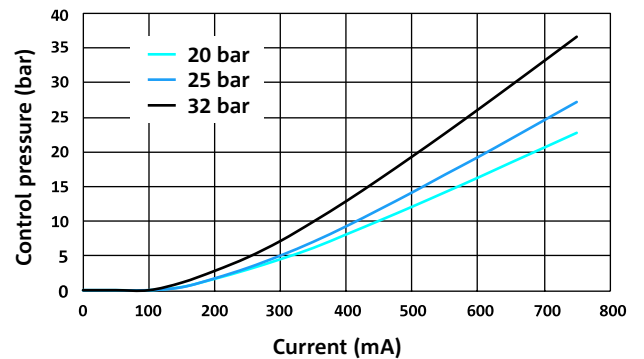
* The reported data are measured @ $P_p=35 \text{ bar}$ (20 and 25 bar version and 40 bar (32 bar version) an oil viscosity of 32 cSt

current vs. pressure (average characteristic)

P-I CURVE (12 V)



P-I CURVE (24 V)

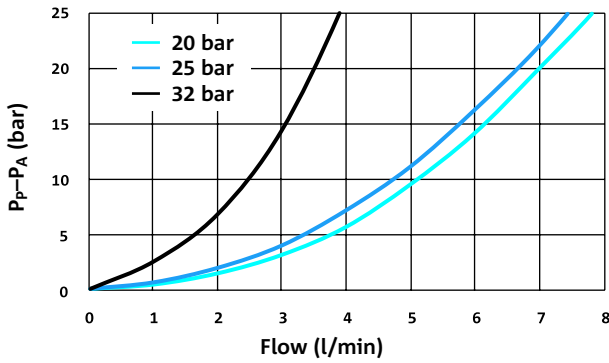




Flow characteristics (Average characteristic)

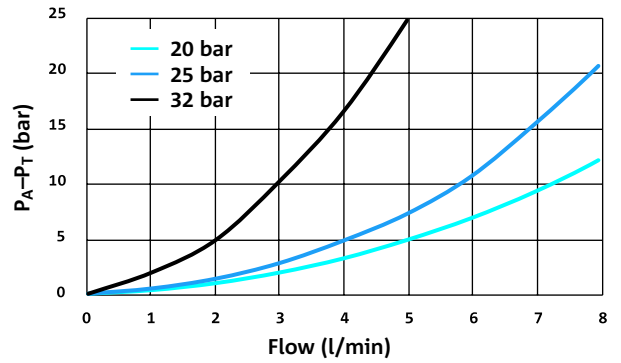
PRESSURE DROP PUMP TO CONTROL PORT (P→A)

Valve only



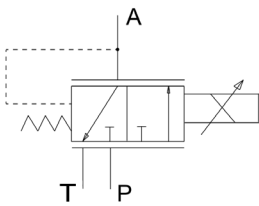
PRESSURE DROP CONTROL PORT TO TANK (A→T)

Valve only



*Due to system related valve adaptations values might differ.

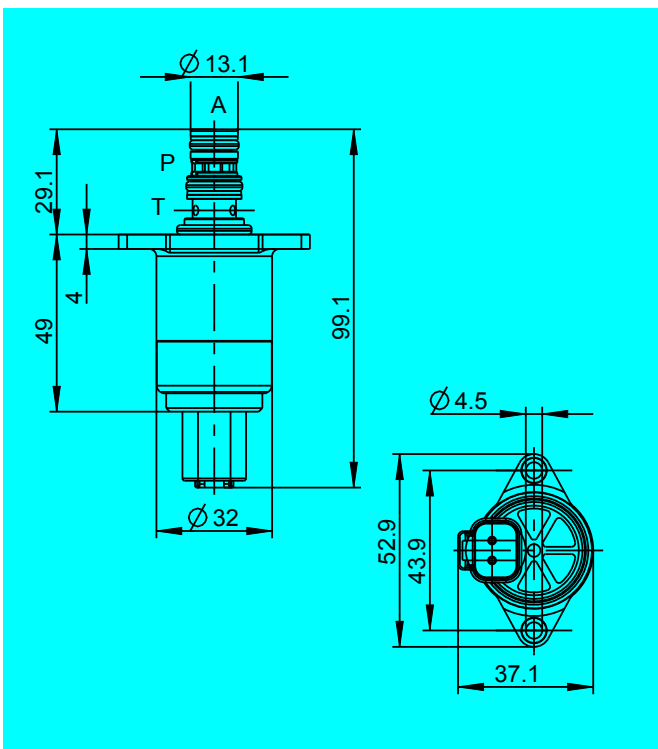
Hydraulic schematic



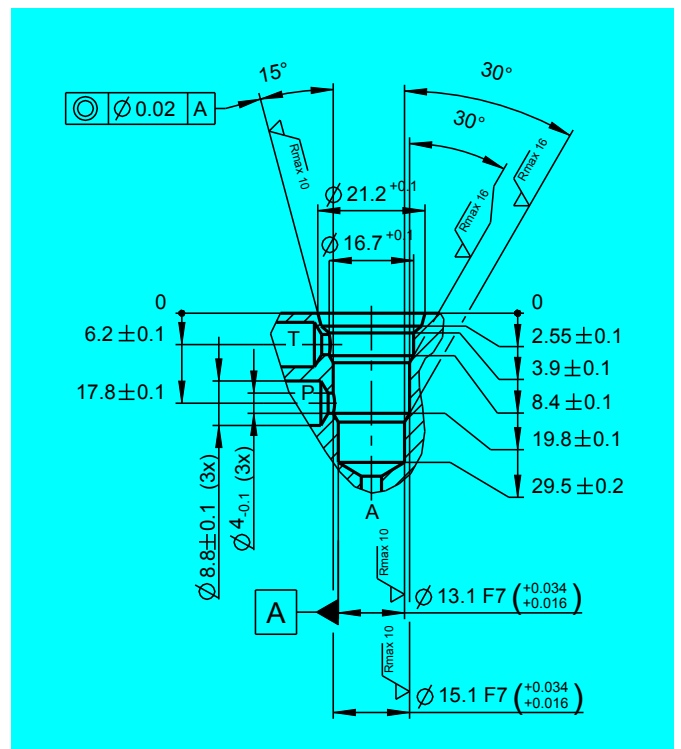
Additional data

Weight	approx. 230 g
Mounting position (recommended)	any
MTTF_d-value	150 years
Reference	Valve specifications according to Thomas LHP 24

Dimensions with Deutsch Connector** (All dimensions in mm)



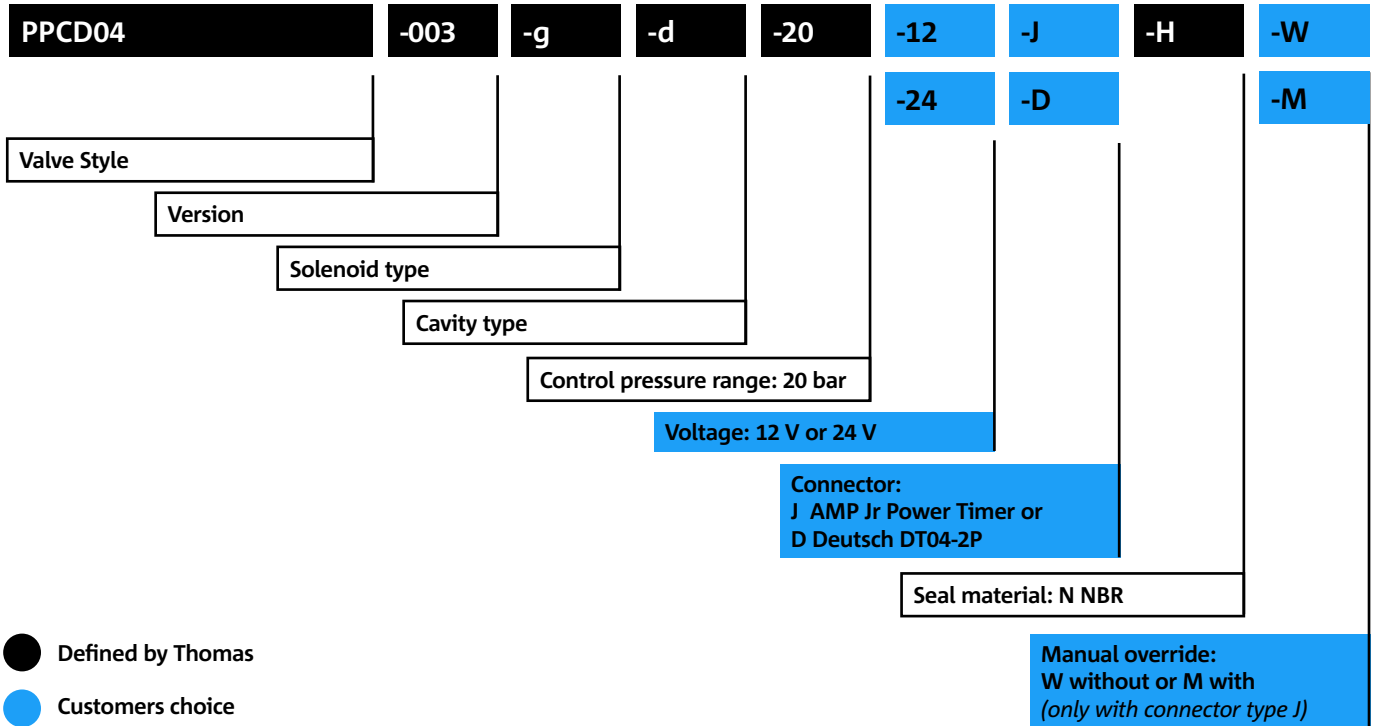
Cavity Dimensions (All dimensions in mm)



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



Model code



CONTACT DETAILS 

Michael Lutz


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