

# Proportional Pressure Control Valve PPCD04-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	Direct controlled
PPCD 08	20 l/min	
PPCD 09	30 l/min	
PPCP 09	35 l/min	Dilat aparated
PPCP 13	72 l/min	Pilot operated

Proportional valves









### **Hydraulic Data**

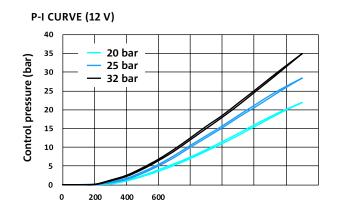
Max pressure pump	P <sub>p</sub> = 50 bar	
Max pressure tank	P <sub>T</sub> = 30 bar	
Max pressure work	P <sub>A</sub> = 20, 25 or 32 bar	
Hysteresis	< 3 % of the nominal pressure at 100 Hz PWM signal	
Contamination level	Min Filtration: 20/18/15 According to ISO 4406	
Fluid	Mineral Oil According to DIN 51524	
Temperature range fluid	-30°C to +105°C	
Leakage (internal)*	< 0,03 l/min (de-energized) < 0,15 l/min (energized)	
Filterscreen size	125 μm (P-Port)	

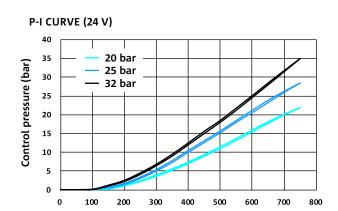
### **Electrical Data**

Voltage	12 V	24 V
Max current	1500 mA	750 mA
Resistance	4,72 Ω ± 5%	20,8 Ω ± 5%
Type of control	Current control PWM 100 Hz recommended	
Connector	AMP Junior timer Deutsch Connector DT04-2P Lead wires	
Protection class	up to IP6K6 / IPX9K	
Switching time	t <sub>on</sub> < 50 ms (pA = 0% to 90%) t <sub>off</sub> < 50 ms (pA =100% to 10%)	

<sup>\*</sup> The reported data are measured @ P<sub>p</sub>=35 bar (20 and 25 bar version and 40 bar (32 bar version) an oil viscosity of 32 cSt

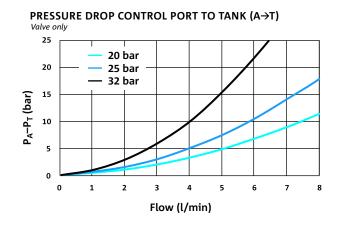
### Current vs. Pressure (average characteristic)





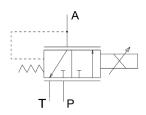
### Flow characteristics (Average characteristic)

# PRESSURE DROP PUMP TO CONTROL PORT (P→A) Valve only 25 20 25 bar 32 bar 15 0 0 1 2 3 4 5 6 7 8 Flow (I/min)





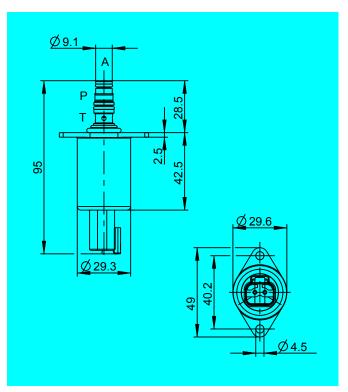
## **Hydraulic schematic**



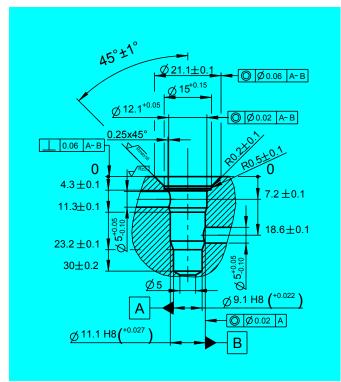
### **Additional data**

Weigth	approx. 175 g
Mounting position (recommended)	any
MTTF <sub>d</sub> -value	150 years
Reference	Valve specifications according to Thomas LHP 39

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



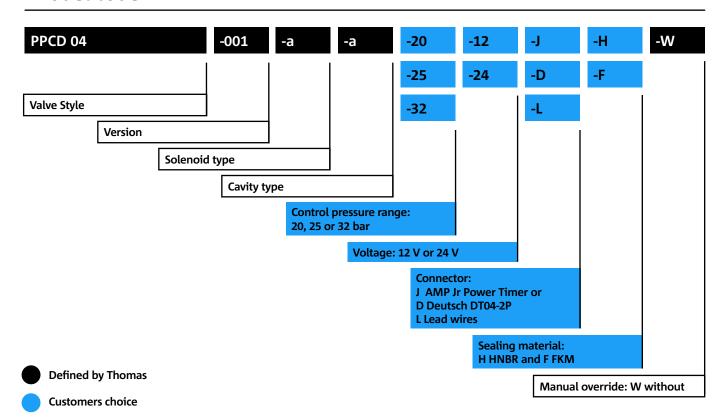
# Cavity Dimensions (All dimensions ina mm)



<sup>\*</sup> Dimensions for AMP Jr. Connector and Lead wires available on request.



### 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.