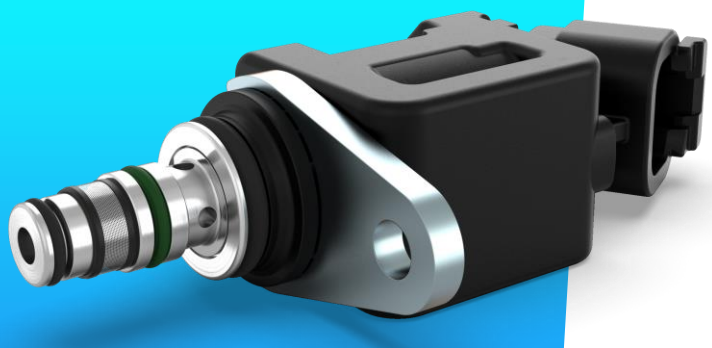
CPA-PPCD04



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	

Benefits

- **Durability:** 2 mm connector wall + waterproof due to overmolded solenoid
- **Slimmest valve on the market:** only 26 mm wide
- **Flexible mounting:** rotatable flange with just one screw – saves time
- **Space-saving:** 60° angled connector for optimized wire routing
- **Faster response:** 25% shorter response time

Hydraulic Data

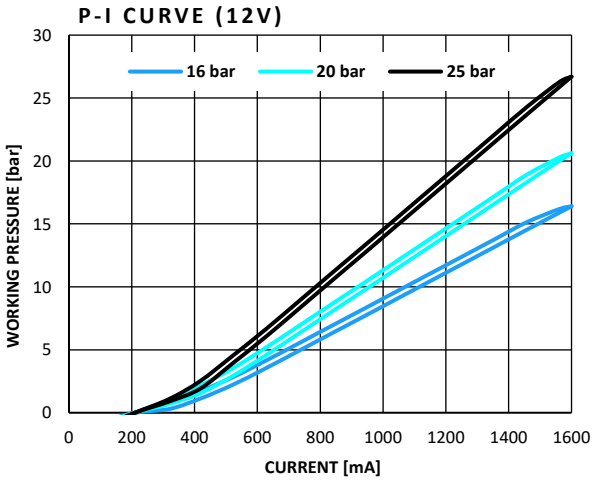
Max pressure pump	P_P = 50 bar
Max pressure tank	P_T = 10 bar
Max pressure work	P_A = 16±3, 20±3 or 25±3 bar (28 bar on request)
Hysteresis	Typical 0,5 - 1,2 bar (depending on control signal)
Contamination level	Max. 20/18/15 According to ISO 4406
Fluid	Mineral Oil According to DIN 51524
Temperature range fluid	-30 °C to +90 °C
Leakage (internal)*	< 0,06 l/min (de-energized) < 0,25 l/min (energized)
Filterscreen size	125 µm (P-Port)

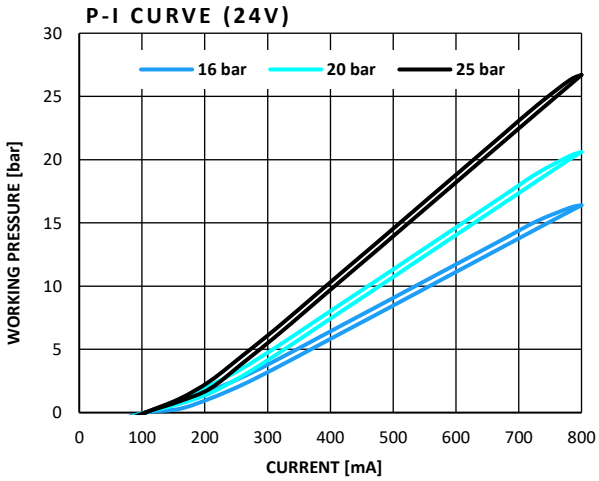
Electrical Data

Voltage	12 V	24 V
Max current	1500 mA	750 mA
Resistance	3,76 Ω ± 5%	15,88 Ω ± 5%
Type of control (recommended)	Dither 100 Hz 300 mA PTP	Dither 100 Hz 150 mA PTP
Connector	Deutsch Connector DT04-2P	
Protection class	Up to IP6K6 / IPX7	
Switching time	t_{on} < 40 ms (pA = 0% to 90%) t_{off} < 40 ms (pA = 100% to 10%)	

* The reported data are measured @P_P = 35 bar
(16, 20 and 25 bar version), oil viscosity of 32 cSt

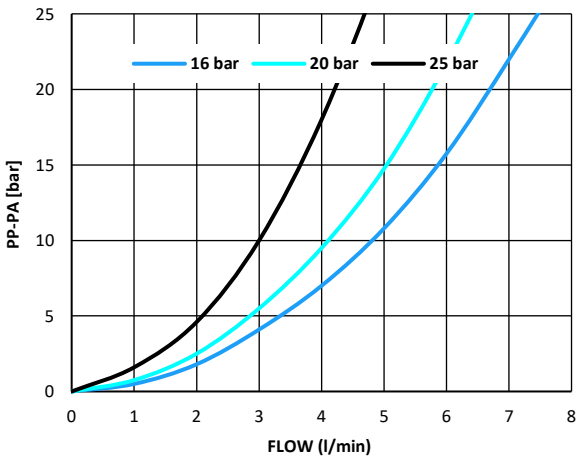
Current vs. Pressure (Average characteristic)



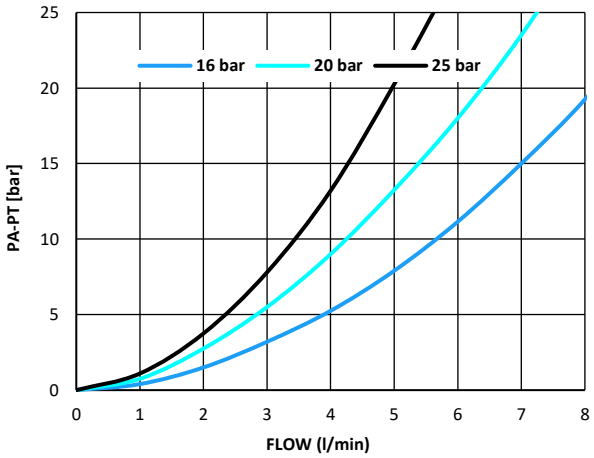


Flow characteristics (Average characteristic)

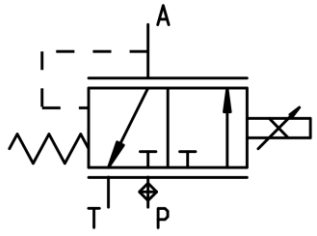
PRESSURE DROP PUMP TO CONTROL PORT (P→A)
Valve only



PRESSURE DROP CONTROL PORT TO TANK (A→T)
Valve only



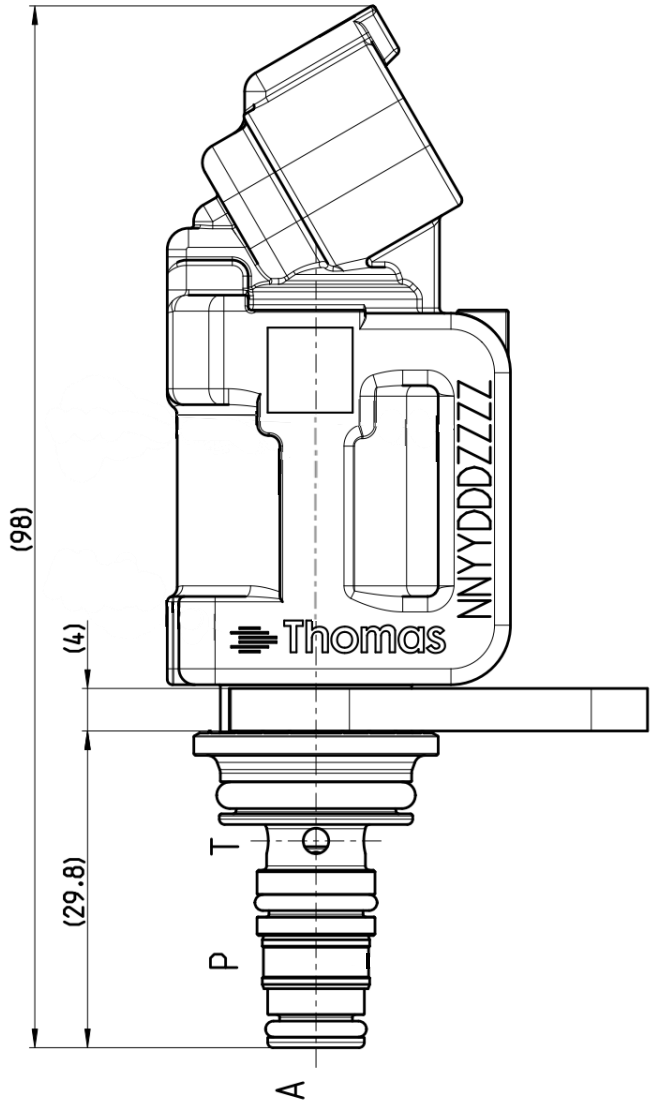
Hydraulic schematic

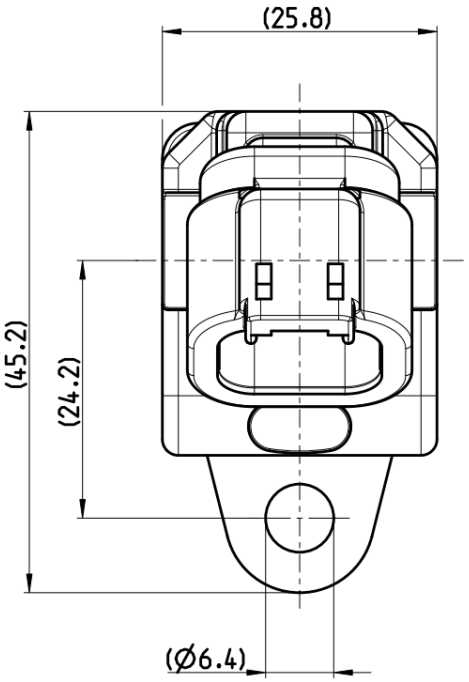


Additional data

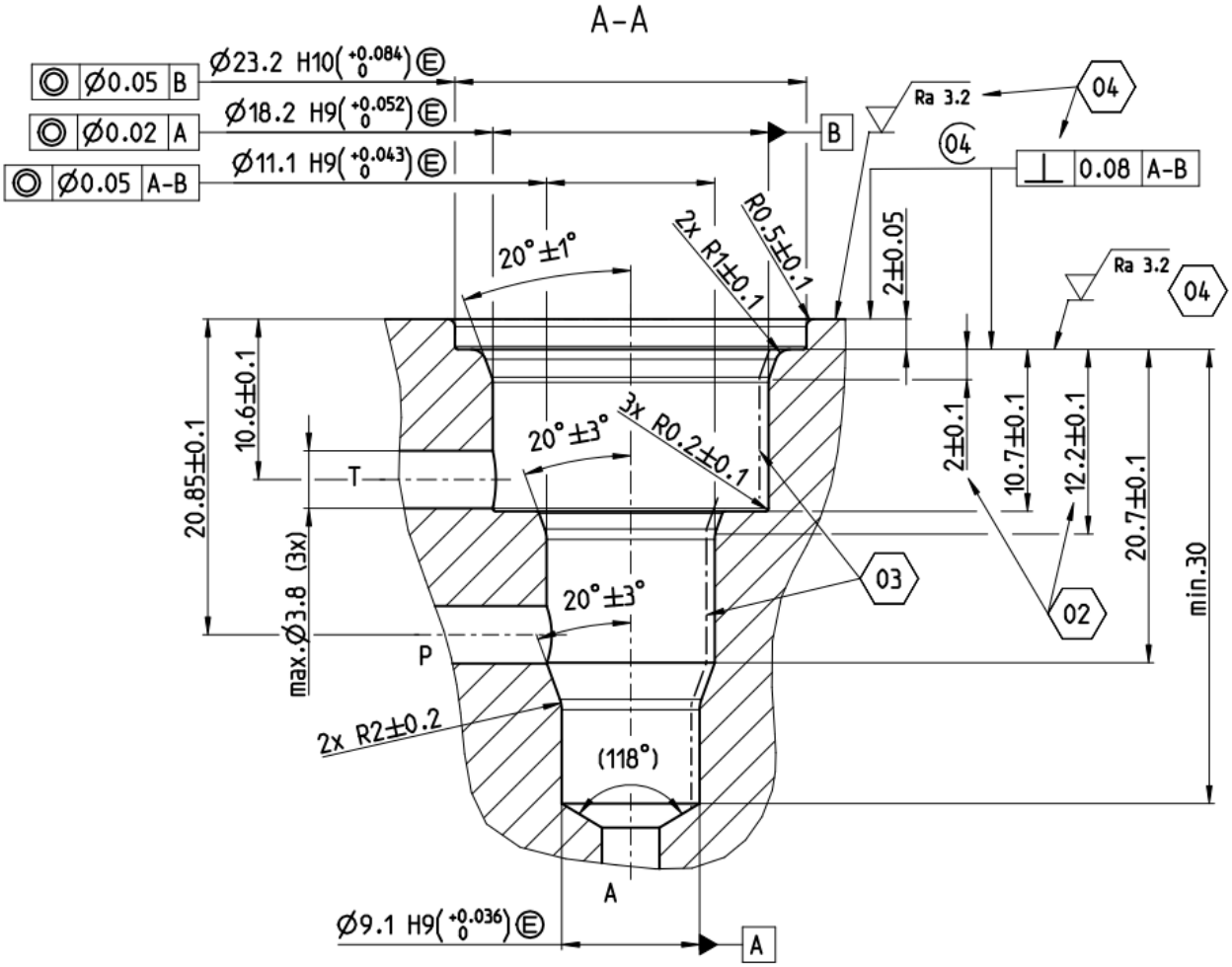
Weight	150 g
Mounting position	Any
MTTFd-value	150 years According to ISO 13849-2 C1, C2
Reference	Valve specification according to Thomas LHP 100

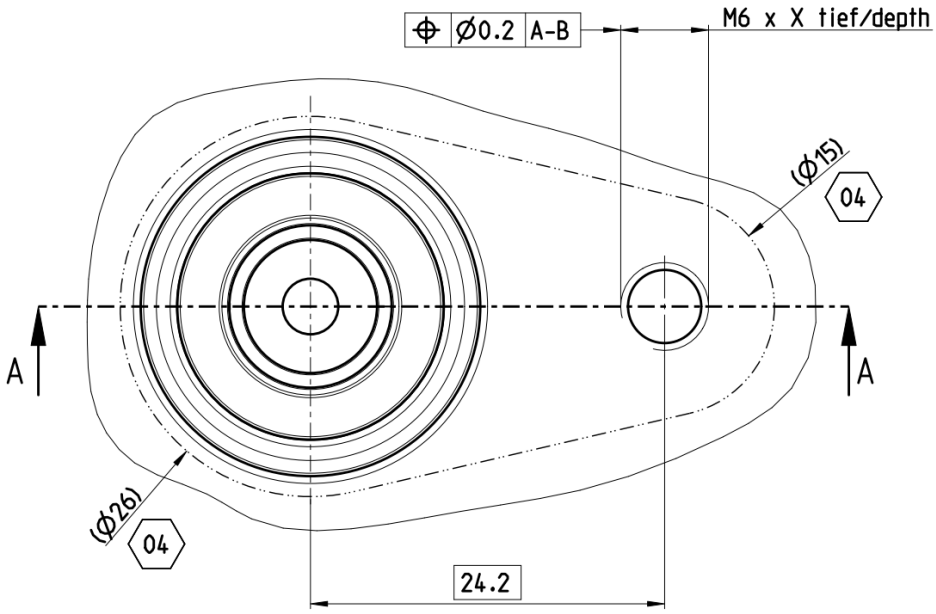
Dimensions with Deutsch Connector [mm]



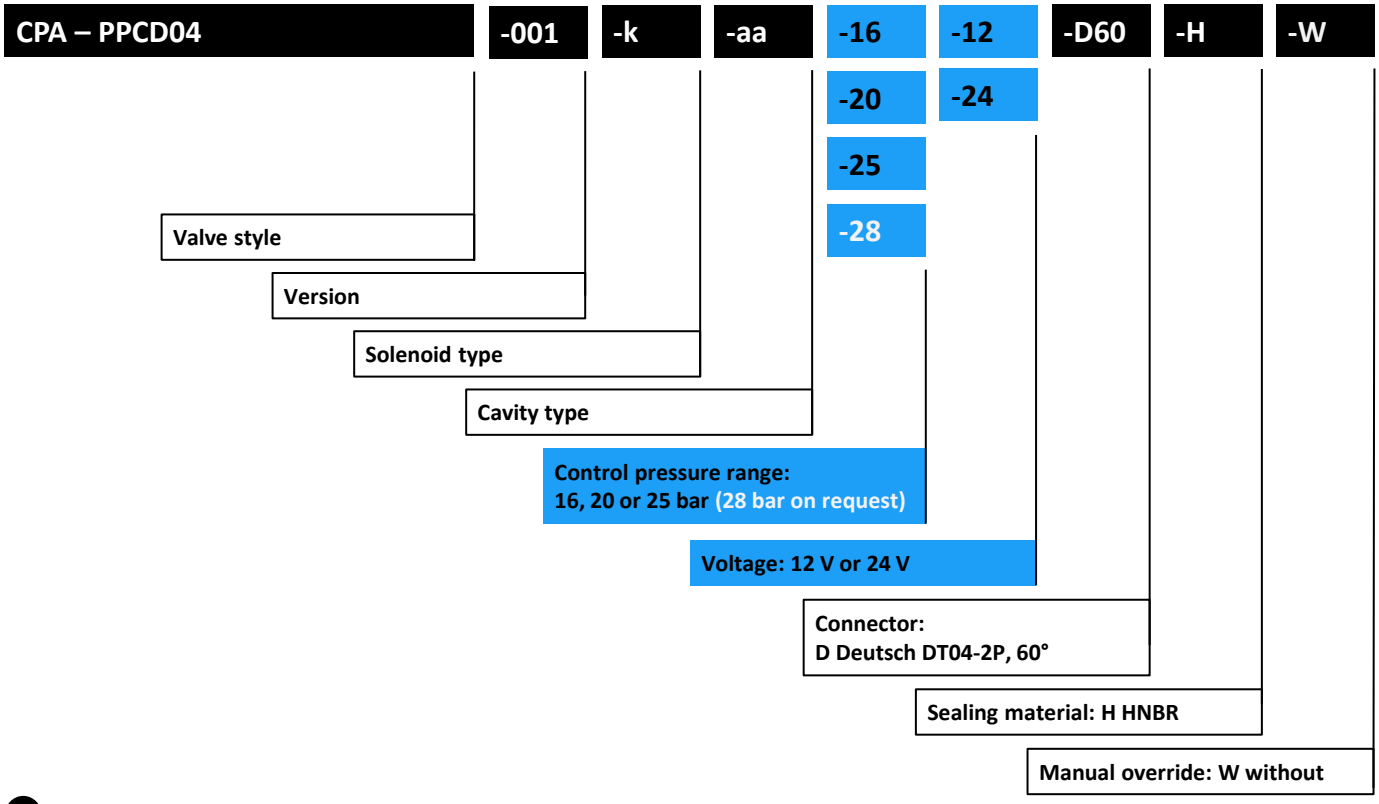


Cavity Dimensions (All dimensions in mm)





Model Code



Difined by Thomas

Customers choice

DISCLAIMER

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.

CONTACT DETAILS

Thomas Magnete GmbH
Innomotion Park 3
57562 Herdorf, Germany
Tel. +49 2744 929-220
sales@thomas-magnete.com
TECsupport@thomas-magnete.com
www.thomas-group.com