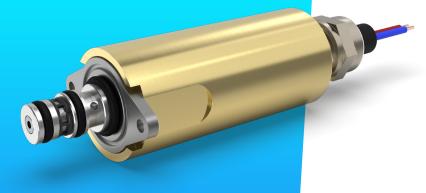


Proportional Pressure Control Valve ATEX/IECEx PPCD04-PPRV



Product classification

| Name | Max volume flow | Max volume flow @ 6 bar dp | | |
|------|-----------------|----------------------------|--|--|
| ATEX | 2,5–5 l/min | Direct controlled | | |
| IPH | | | | |
| IPRV | | | | |







Special designs



Hydraulic Data

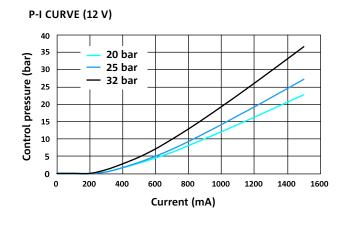
| Max pressure pump | P _p = 50 bar |
|-------------------------|---|
| Max pressure tank | P _T = 30 bar |
| Max pressure work | P _A = 20, 25 or 32 bar |
| Hysteresis | < 3,5 % of the nominal pressure at 100 Hz PWM signal |
| Contamination level | Min Filtration: 20/18/15 According to ISO 4406 |
| Fluid | Mineral Oil According to DIN 51524 |
| Temperature range fluid | -20°C to +80°C |
| Leakage (internal) | < 0,1 l/min (de-energized) < 0,5 l/min (energized) |
| Filterscreen size | 125 μm (P-Port) available |

Electrical Data

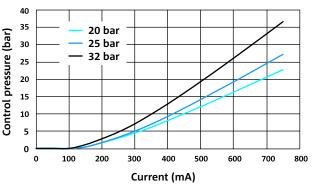
| Voltage | 12 V | 24 V |
|------------------|--|-------------|
| Max current | 1500 mA | 750 mA |
| Resistance | 5,3 Ω ± 5% | 21,2 Ω ± 5% |
| Type of control | Current control PWM 100 Hz recommended | |
| Connector | Shielded cable | |
| Protection class | up to IP6K6 / IPX7 / IPX9K | |
| Switching time | t _{on} < 50 ms (pA = 0% to 90%) t _{off} < 50 ms (pA =100% to 10%) | |

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

Current vs. Pressure (average characteristic)

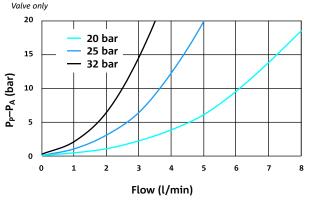


P-I CURVE (24 V)

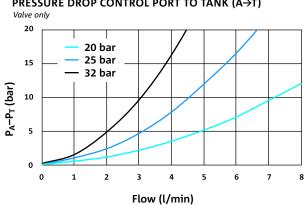


Flow characteristics (Average characteristic)

PRESSURE DROP PUMP TO CONTROL PORT (P→A)

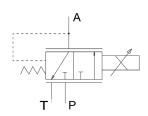


PRESSURE DROP CONTROL PORT TO TANK (A>T)





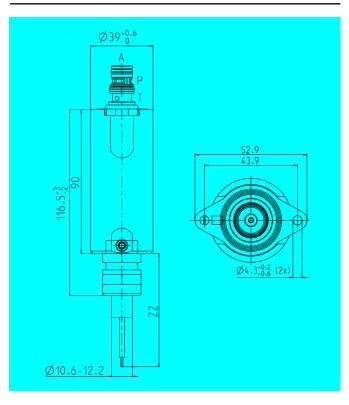
Hydraulic schematic



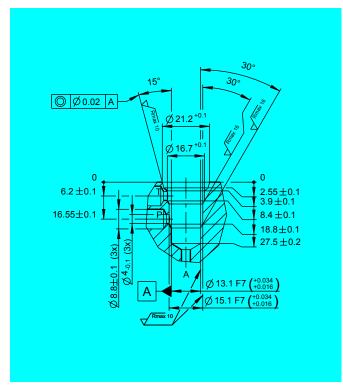
Additional data

| Weigth | approx. 580 g |
|---------------------------------|---|
| Mounting position (recommended) | any |
| MTTF _d -value | 150 years |
| Reference | Valve specifications according to Thomas LHP 31 |

Dimensions with Flying Leads (All dimensions in mm)



Cavity Dimensions (All dimensions in mm)



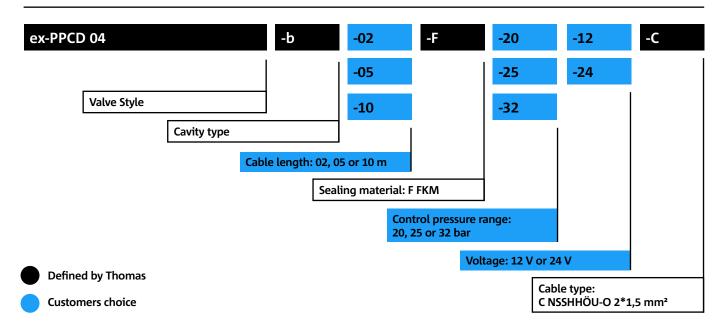
Certified field of operation

| Thomas Magnete GmbH |
|---|
| Ex - PPCD 04 / ec / 20/12/C/05 - 13.02.2015 |
| TÜV13 ATEX 7418 X IECEx TUR - 13.0015 |
| Ex I M2 Ex mb I Mb |
| Ex II 2G Ex mb IIC T4 Gb |
| Ex II AD Ex mb IIIC T130°C Db |

CE 0035



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.