Proportional Pressure Control Valve
PPCD06–PPRV MF

PRODUCT CLASSIFICATION

Proportional valves | Directional valves | Smart products | Special designs

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

HYDRAULIC DATA

Max pressure pump	P_P = 50 bar
Max pressure tank	P_T = 30 bar
Max pressure work	P_A = 32 and 45 bar
Hysteresis	< 4 % of the nominal pressure at 100 Hz PWM signal
Contamination level	Min Filtration: X/18/15 According to ISO 4406
Fluid	Mineral Oil According to DIN 51524
Temperature range fluid	-30°C to +105°C
Leakage (internal)	< 0,06 l/min (de-energized) < 0,25 l/min (energized)
Filterscreen size	140 µm (P-Port)

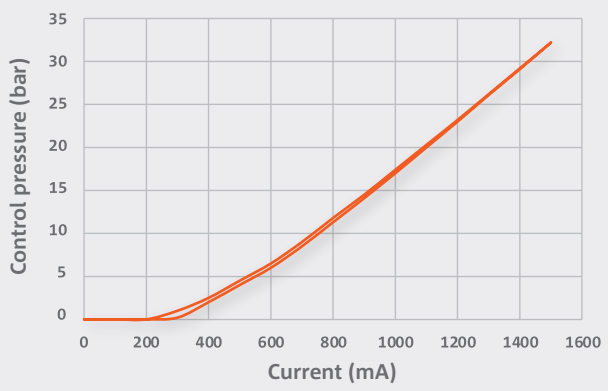
ELECTRICAL DATA

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	AMP Junior timer Deutsch Connector DT04-2P 90° Deutsch Connector DT04-2P	
Protection class	up to IP6K6 / IPX9K	
Switching time	t_{on} < 50 ms (pA = 0% to 90%) t_{off} < 50 ms (pA =100% to 10%)	

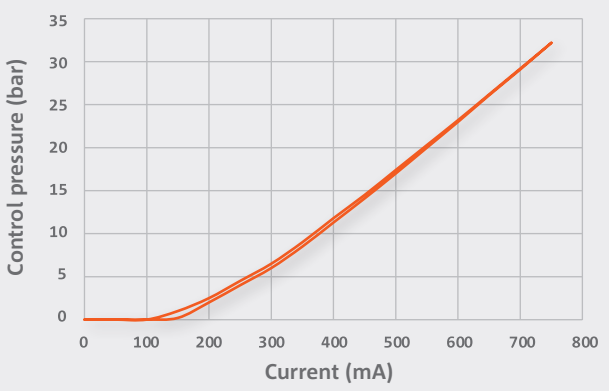
* The reported data are measured @ P_p=50 bar and an oil viscosity of 32 cSt

CURRENT VS. PRESSURE *(AVERAGE CHARACTERISTIC)*

P-I CURVE (12 V)



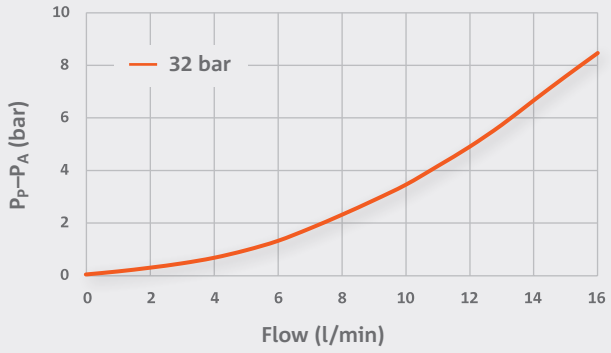
P-I CURVE (24 V)



FLOW CHARACTERISTICS *(AVERAGE CHARACTERISTIC)*

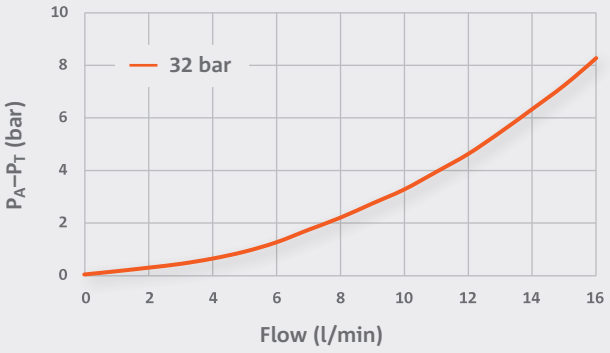
PRESSURE DROP PUMP TO CONTROL PORT (P→A)

Valve only

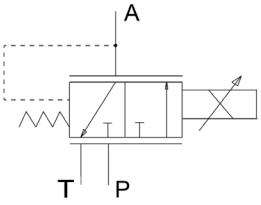


PRESSURE DROP CONTROL PORT TO TANK (A→T)

Valve only



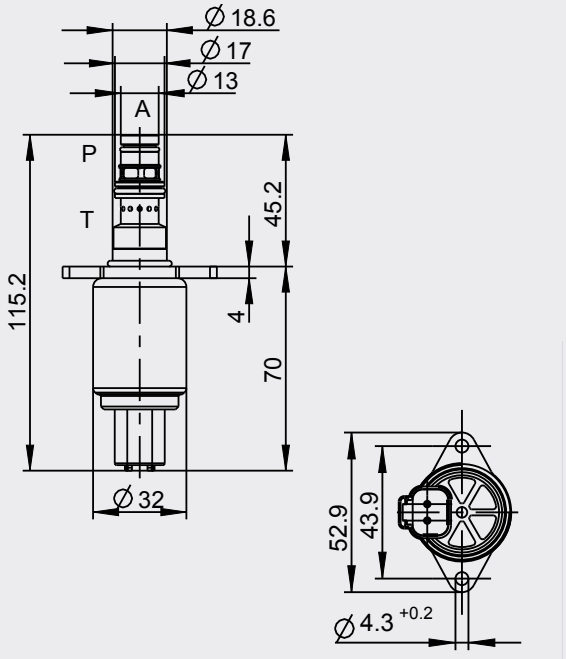
HYDRAULIC SCHEMATIC



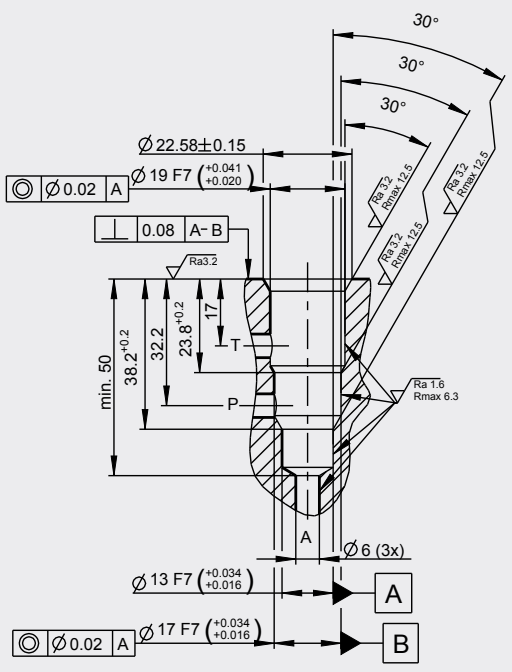
ADDITIONAL DATA

Weigth	approx. 250 g
Mounting position (recommended)	Valve sleeve vertically downward
$MTTF_d$-value	150 years
Reference	Valve specifications according to Thomas LHP 40

DIMENSIONS WITH DEUTSCH CONNECTOR* (All dimensions in mm)



CAVITY DIMENSIONS (All dimensions in mm)



* Dimensions for AMP Jr. Connector available on request.

MODEL CODE

PPCD 06	-001	-b	-f	-32	-12	-J	-H	-0
				-45	-24	-D		
						-DH		

- Valve Style
- Version
- Solenoid type
- Cavity type
- Control pressure range: 32 or 45 bar
- Voltage: 12 V or 24 V
- Connector:
  J AMP Jr Power Timer or
  D Deutsch DT04-2P
  DH 90° Deutsch DT04-2P
- Seal material: H HNBR
- Manual override: 0 without

Defined by Thomas

Customers choice

CONTACT DETAILS

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DISCLAIMER