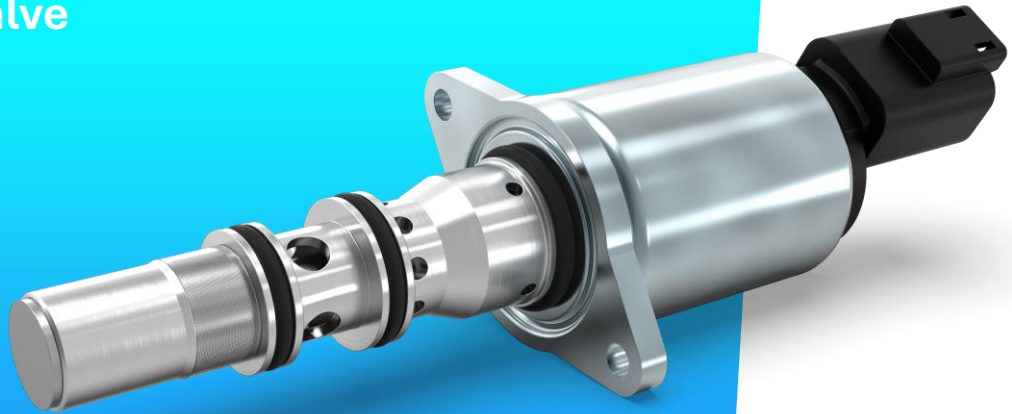


Classic-PPCP09 2.0

Proportional Valve



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	

Proportional
valves

Directional
valves

Smart
products

Special
designs



Hydraulic Data

Max pressure pump	$P_p = 32$ bar
Max pressure tank	$P_T = 10$ bar
Max pressure work	$P_A = 30$ bar @ 1000mA/ 500 mA $P_A = 22$ bar @ 1000mA/ 500mA
Hysteresis	< 2 % of the nominal pressure at tbd. Hz PWM signal
Contamination level	Min Filtration: 18/15/13 According to ISO 4406
Fluid	Mineral Oil According to DIN 51524
Temperature range fluid	-30°C to +105°C
Leakage (internal)*	< 1,25 l/min (de-energized) < 1,5 l/min (energized) caused by the pilot flow
Filterscreen size	320 μ m (P-Port)

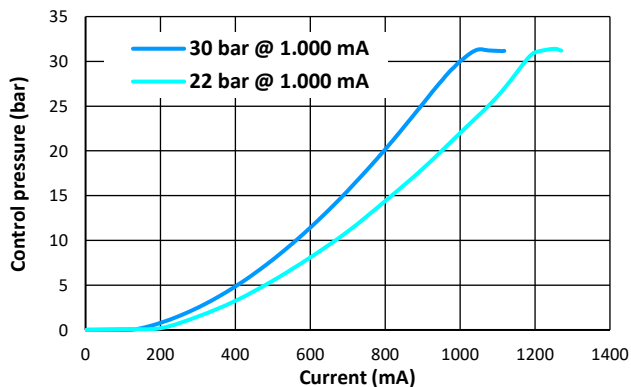
Electrical Data

Voltage	12 V	24 V
Max current	1000 mA	500 mA
Resistance	5,3 $\Omega \pm 5\%$ (7,7 $\Omega \pm 5\%$)	21,2 $\Omega \pm 5\%$ (31,0 $\Omega \pm 5\%$)
Type of control	Recommended: Dither 100 Hz (Amplitude PTP: 400mA @ 12V, 200mA @ 24V)	
Connector	AMP Junior timer Deutsch Connector DT04-2P 90° Deutsch Connector DT04-2P	
Protection class	up to IP6K6 / IPX9K / IPX7	

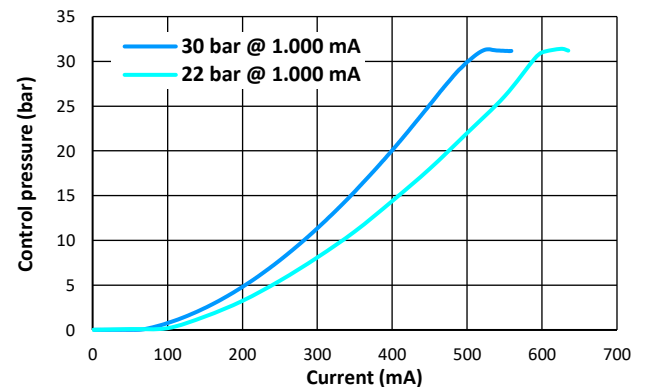
* The reported data are measured @ $P_p = 32$ bar and an oil viscosity of 32 cSt

Current vs. Pressure (Average characteristic)

P-I CURVE (12 V)



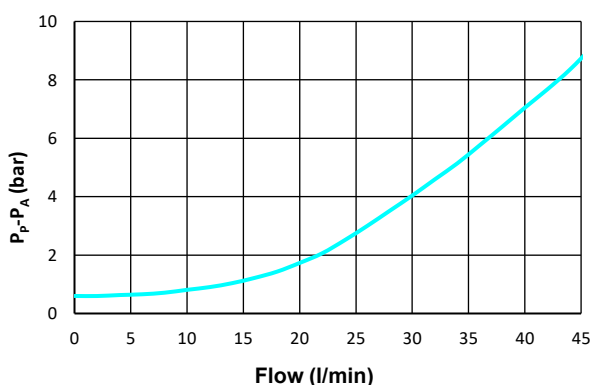
P-I CURVE (24 V)



Flow characteristics (Average characteristic)

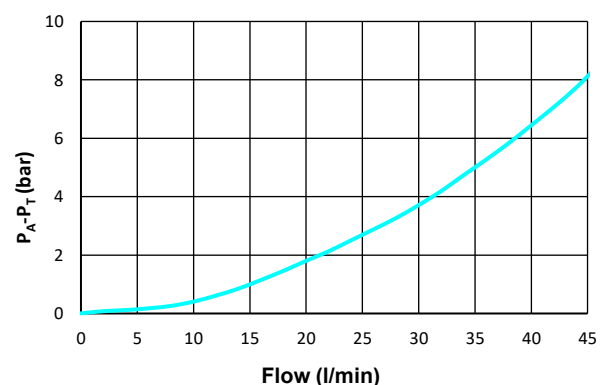
PRESSURE DROP PUMP TO CONTROL PORT (P→A)

Valve only



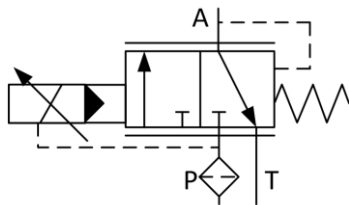
PRESSURE DROP CONTROL PORT TO TANK (A→T)

Valve only





Hydraulic schematic

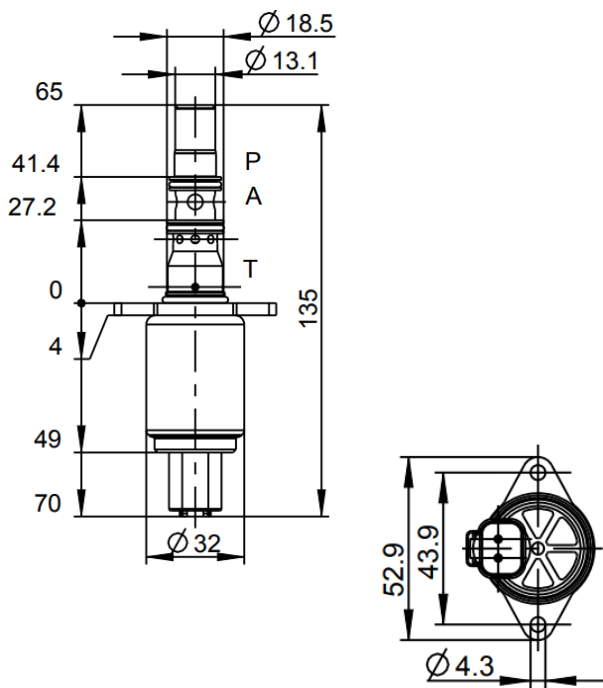


Additional data

Weighth	approx. 270 g
Mounting Position	any
MTTF _a -value	150 years
Reference	Valve specification according to Thomas LHP 79

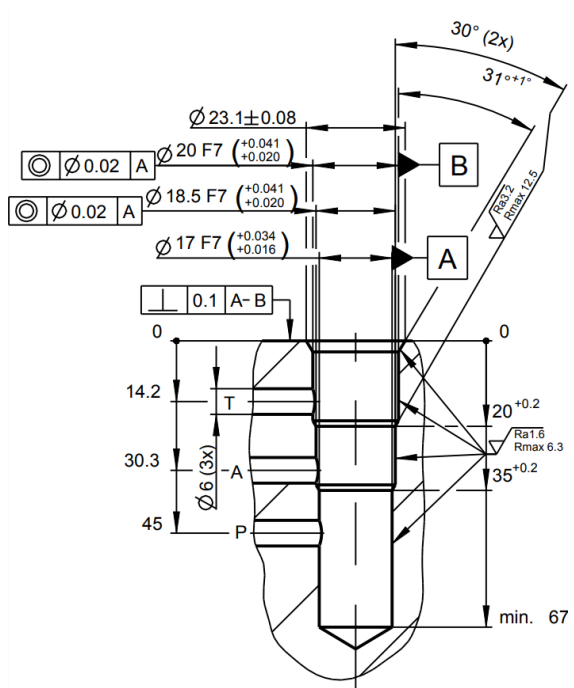
Dimensions with Deutsch Connector*

(All dimensions in mm)



Cavity Dimensions

(All dimensions in mm)



*Dimensions for AMP Jr. Connector available on request



Model code

PPCP09	-001	-b	-h	-30	-12	-J	-F	-W
					-24	-D		
						-DH		
Valve style								
Version								
Solenoid type								
Cavity type								
				Control pressure range: 30 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: F FKM		
							Manual override: W without	

- Defined 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 GmbH

Innomotion Park 3
57562 Herdorf
Germany

Sales:
sales@thomas-group.com
Technical support:
TECsupport@thomas-group.com