

Pilot valve CLASSIC PPCD04-PPRV DATA SHEET

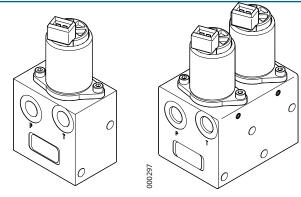
Description

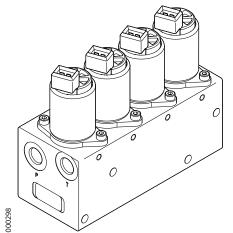
SVAB pilot valve is a small smooth valve, based on Thomas Magnetes propotional pressure reducing valve, that controls a limited-flow control feed to a separate piloted main valve on a machine. Typically, this valve controls a high pressure or high flow feed. SVAB pilot valves are useful because they allow a small and easily operated feed to control a much higher pressure or higher flow feed, which would otherwise require a much larger force to operate.

Features	Benefits			
Stackable housing with measuring point.	Easy to expand the valve to add functions and socket for a pressure sensor.			
Valve with shuttle.	Easy to install on existing installation.			
Integrated relief function.	Protection against pressure spikes.			
Compact dimensions.	Easy to fit in small spaces.			
Low leakage.	Lower energy losses.			
Precise current vs pressure control.	Excellent controllability.			
Teflon coated bronze bearings.	Small hysteresis, improved resolution.			
Excellent Repeatability.	No calibration over the lifetime of the machine.			
Highest quality standard.	No maintenance, no downtime.			
Small valve to valve variance.	Easy replacement, no service calibration.			
Flexibility.	Modular.			

Technical data

Port size housing	R 1/4"		
Material housing	EN AW-6082		
Total weight singel ppr valve	571,0g		
Total weight singel ppr valve with shuttle	576,0g		
Total weight dubble ppr valves	1136,5g		
Total weight dubble ppr valves with shuttle	1146,5g		





Total weight dubble MP ppr valves	1456,5g
Total weight dubble MP ppr valves with shuttle	1471,5g
Total weight four ppr valves	2129,5g
Total weight four ppr valves with shuttle	2149,5g

Hydraulic PPCD04-PPRV

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Max Pressure (P, T)	pP = 50 bar, pT = 30 bar			
Hysteresis (w/ PWM)	< 0.7 bar (pA=20) < 1.0 bar (pA=25) < 1.5 bar (pA=35)			
Filter Screen	125 μm			
Contamination Level	Min Filtration: 20/18/15 According to ISO 4406			
Fluid	Mineral Oil According to DIN 51524			
Temperature Range Fluid	-40 to +105°C			
Seal material	NBR			
Valve Specefications According to Thomas LHP-31				

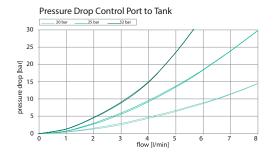
Name	Authorized	Date	Revision no
DOC-0000263_Data sheet Pilot valve_Classic	DAPE	2015-11-27	В

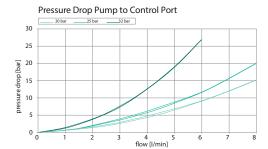


Electrical PPCD04-PPRV

Voltage	12V	24V	
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		
Protection Class	Up to IP6K6 / IPX9K		

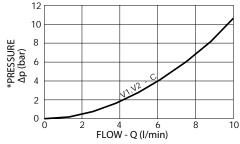
Flow Characteristics



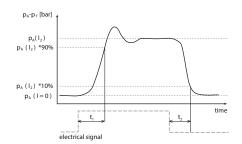


Shuttle valv

Rated flow	5	l/m		
40				
12				

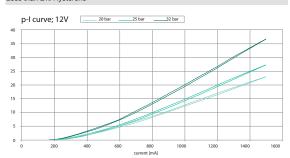


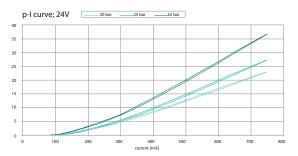
Step Response (50°C Oil Temperature) t₁, t₂ < 50 ms



Proportional Pressure Reducing Valve PPCD04-PPRV

Current vs. Pressure Less than 2% Hystereris

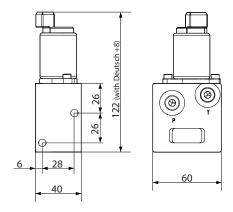




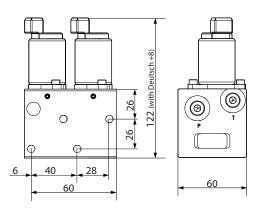


Dimensions complete valve (AMP Jr)

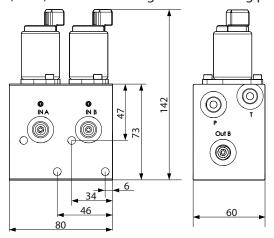
(1) - single housing



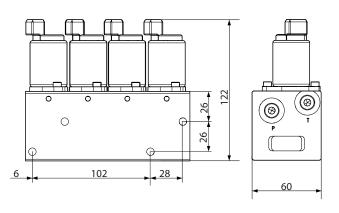
(2) - double housing



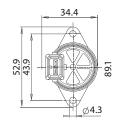
(2 MP) - double housing with measuring point



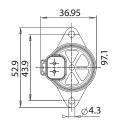
(4) - quadruple housing



Dimensions with AMP Jr. Connector



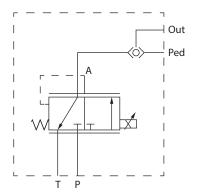
Dimensions with Deutsch Connector



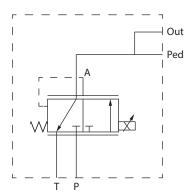


Hydraulic schematics

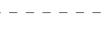
SINGLE PPR VALVE with shuttle

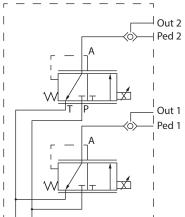


without shuttle

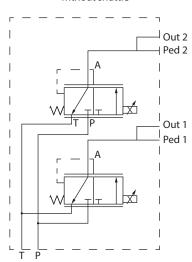


DOUBLE PPR VALVES with shuttle

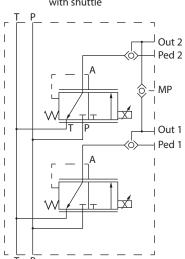


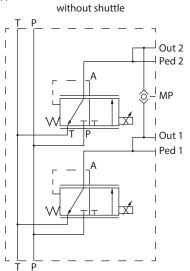


without shuttle



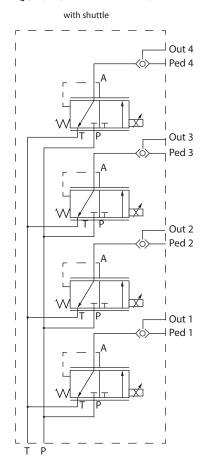
DOUBLE PPR VALVES WITH MEASURING POINT with shuttle

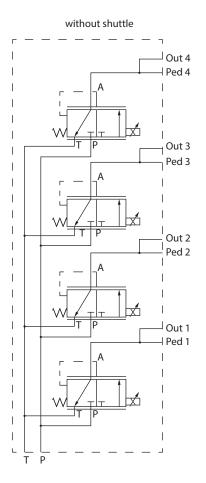




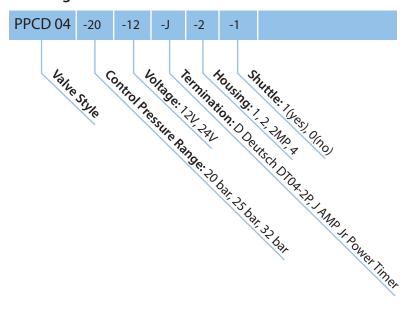


QUADRUPLE PPR VALVES





Ordering code



If you need other configuration please contact us.

