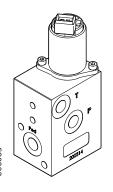
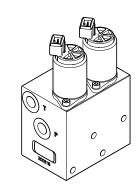


# Pilot valve MEDIUM FLOW PPCDOG-MFPPRV DATA SHEET





### Description

SVAB pilot valve is a small and smooth valve based on Thomas Magnete proportional pressure reduction valve. Most typical use for the valve is to control and piloting a high pressure and/or high flow feed on a machines main valve.

SVAB pilot valves strength is to easily control a high pressure feed with a small force.

### **Technical data**

	<u> </u>
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

### **Hydraulic PPCD06-MFPPRV**

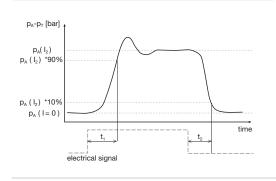
Tryandane Tr eboo Mil Tr NV		
Max pressure (P, T)	pP = 50 bar, pT = 30 bar	
Hysteresis (w/ PWM)	< 0.7 bar (pA=30 bar)	
Filter screen	125 μm	
Contamination level	Min filtration: 20/18/15 according to ISO 4406	
Fluid	Mineral oil according to DIN 51524	
Temperature range fluid	-40 to +105°C	
Seal material	HNBR	
Valve specifications according to Thomas LHP-40		

### **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		

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.		

## **Step Response** (50°C Oil Temperature) $t_1$ , $t_2$ < 50 ms



### Shuttle valv

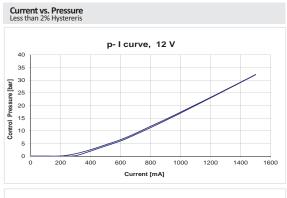
Rated flow	5 l/m

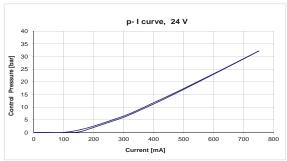
Name	Authorized	Date	Revision no
DOC-0000270_Data sheet Pilot valve_Medium flow	DAPE	2015-11-27	A



# Pressure Drop Pump to Control Port (P → A) | Ted | dop | d

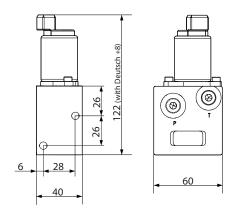
### Medium Flow Proportional Pressure Reducing Valve PPCD06-MFPPRV



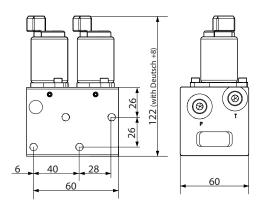


# Dimensions complete valve (AMP Jr)

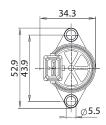
(1) - single housing



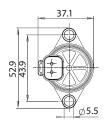
(2) - double housing



Dimensions with AMP Jr. Connector



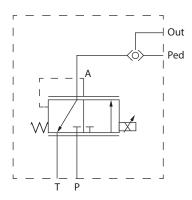
Dimensions with Deutsch Connector



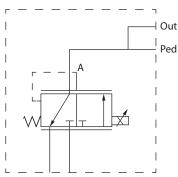


### **Hydraulic schematics**

SINGLE PPR VALVE with shuttle

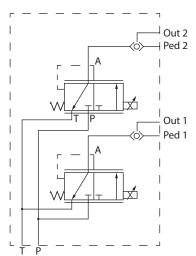


without shuttle

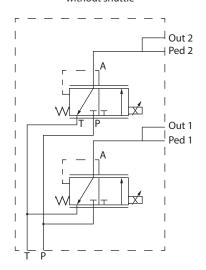


**DOUBLE PPR VALVES** 

with shuttle



without shuttle



### Ordering code

