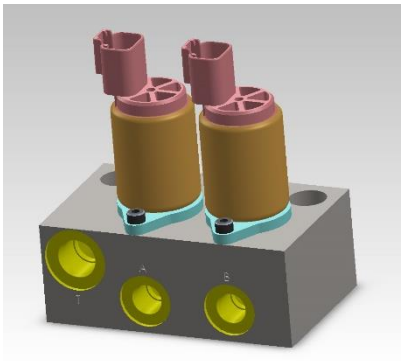
Electro-proportional Pilot pressure control Valve PVB2



CAN Automotion offers Electro-Proportional Pilot pressure control valves for use in precision control of pilot presure in heavy mobile machine for main spool type control valves which work in the range of 0-32 bar. The manifolds are suitable for use in pilot pressure of maximum 50 bar.
It is recommended to limit the tank pressure to below 2 bar for optimum performance.

Versaatile in applications

Suits the pilot range of most proportional mobile valves. Used extensively in excavator attachment applications

Precision in Control

Precise and linear pressure output using PWM current control.

Wide range of Driver options

Can be driven by

1.Suregrip SDB-P1,

2.JSM/JSL Joysticks with direct PWM driver output,

3.STW ESX controllers

Hydraulic Data		Electrical Data		
Max supply pressure at P	50 bar	Voltage	12V	24V
Max Pressure at T (tank) port	30 bar	Max current	1500mA	750mA
Max Control pressure according the PPRV valve	A and B ports: 20 bar, 25 bar or 32 bar	Resistance	5,3 Ω ± 5%	21,2 Ω ± 5%
Hysteresis	<3% of nominal pressure at 100 Hz PWM signal	Type of control	Current control PWM 100 Hz recommended	
Contamination Level	Minimum Filtration: 20/18/15 according to ISO 4406	Connector	Deutsch Connector DT04-2P	
Fluid	Mineral oil according to DIN 51524	Protection class	up to IP6K6 / IPX9K	
Temperature range (fluid)	-40°C to +105°C	Switching time	ton < 50 ms (pA = 0% to 90%) toff < 50 ms (pA =100% to 10%	
Leakage (internal)	< 0,1 l/min (de-energized) < 0,5 l/min (energized)			
Filterscreen size	125 µm (P-Port)			

PVB valve housing or manifold is made of Aluminium alloy typically 6061, and is offered in black anodized finish.
We offer these manifolds with 7/16” -20 UNF ports (A and B) with ‘O’ ring seal. Pressure and Tank (P and T ports) will be 9/16”-18 UNF ports in the PVB(U) version. Optionally PVB(G) version is available with BSPP ports (G1/4”) in P,T, A and B ports.
Based on the standard Proportional presure control valve from Thomas Magnete we offer them in 12VDC and 24VDC, and also for 20, 25 and 32 bar max control pressure. Our standard PVB blocks come with 32 bar. Our standard PVB valves come with solenoid valves as above with Deutsch DT04-2P connectors.

Ready stock

PVB2 pilot pressure control blocks are usually available in stock both in India and Australia

12V and 24V versions

As with popular battery voltage we carry both 12V and 24V versions of PVB2 blocks for sale from stock

New Applications

Contact us for your applications. Especially for attachment controls PVB2 manifolds provides a versatile control option including selectable speed control using selector switch in SDB-P1.

Australia customers contact:

CAN Automotion Pty Ltd

Factory 2, 21-29 Railway Avenue

Huntingdale VIC 3166

Australia

T: +61 3 95684432

India customers contact:

CAN Automotion Pvt Ltd

S1 Sabamarthi Apartments

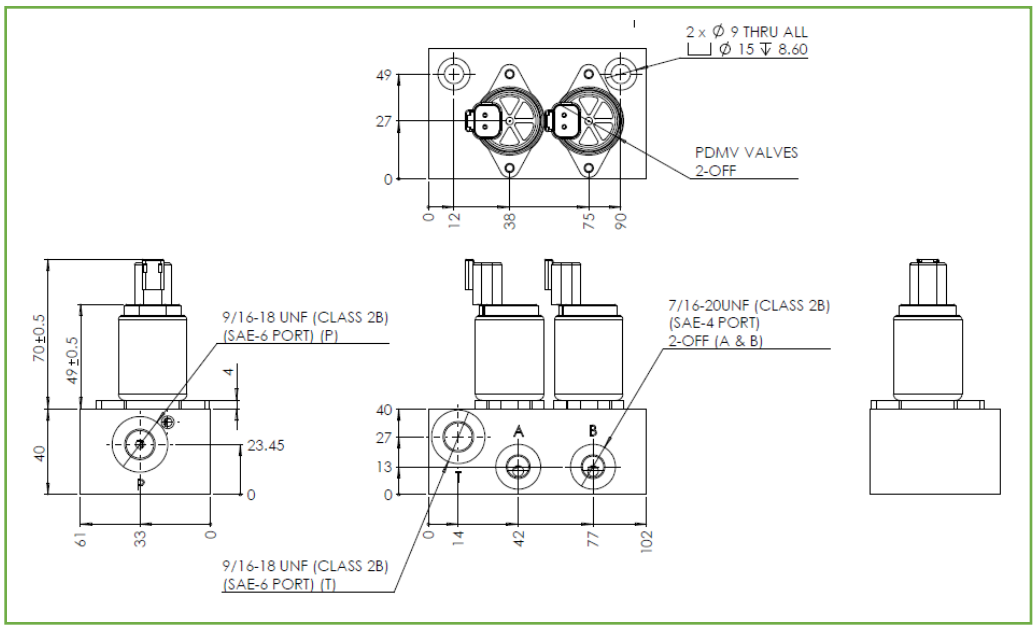
Parvati Nagar ist Street

Madambakkam

Chennai – 600 073

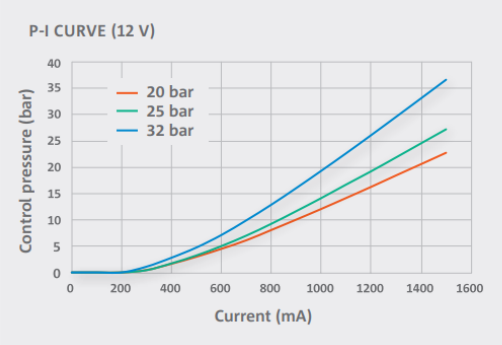
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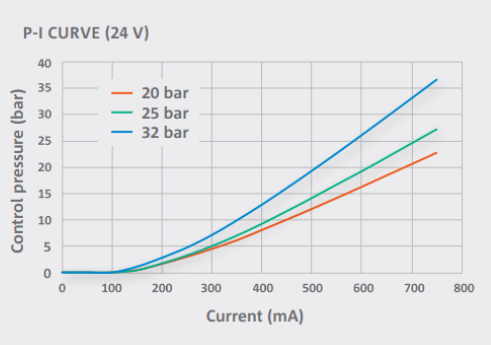
Dimensional details of PVB2(U)-24/32 manifold assembly



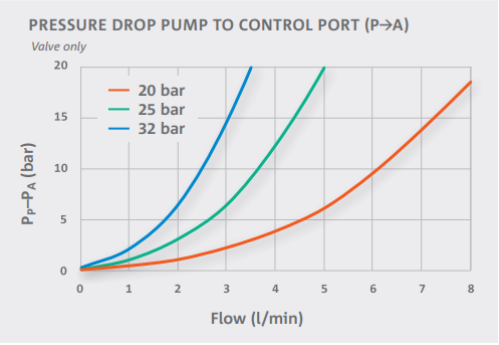
Performance Characteristics of the PPCD04-PPRV solenoid valve

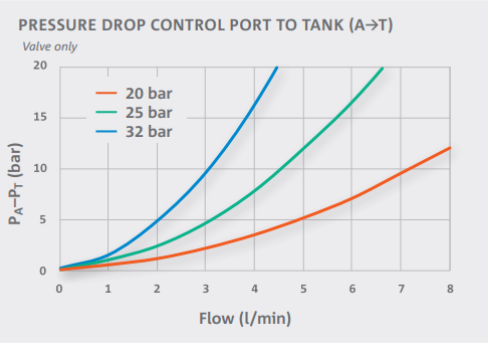
CURRENT VS. PRESSURE *(AVERAGE CHARACTERISTIC)*



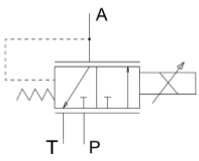


FLOW CHARACTERISTICS *(AVERAGE CHARACTERISTIC)*





HYDRAULIC SCHEMATIC



ADDITIONAL DATA

Weigth	approx. 230 g
Mounting position (recommended)	any
$MTTF_d$-value	150 years
Reference	Valve specifications according to Thomas LHP 31