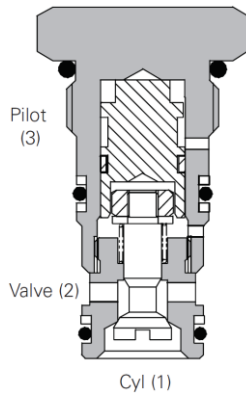
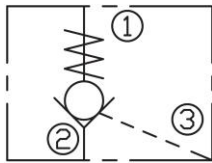


Overview



Symbol



Description

The Pilot Check Valves allow flow to pass in one direction, with a low pressure drop, then prevent reverse flow until pilot pressure is applied. There are many applications for this valve type, the most common being to lock and hold a cylinder, or another hydraulic actuator, in position. These valves are ideally suited for fitting directly into a cylinder, giving economy of installation, direct control of cylinder movement and ease of servicing.

Operation

The PCV30 is a pressure on the valve port 2 causes the poppet to lift against the spring force, allowing the flow to the cylinder port 1. Reverse flow is prevented by the poppet reseating. Pressure applied to the pilot port 3 will overcome the cylinder port pressure and lift the poppet from its seat, allowing flow from the cylinder to valve port.

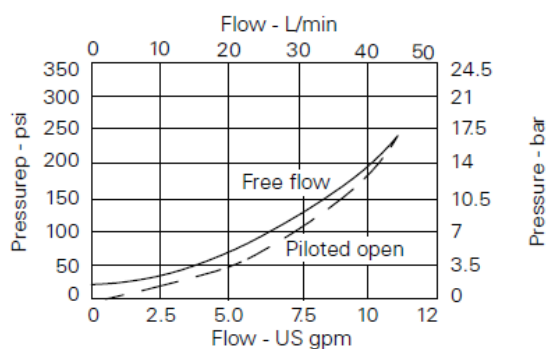
Features

Hardened and ground poppet gives excellent flow capability for valve size, positive sealing and long working life. Cartridge construction allows installation in actuators, manifold blocks and Hydraulic Integrated Circuits. Fits the same cavity as the overcenter valves of a similar size.

Ratings

Operating Pressure	350 Bar (5000 psi)
Flow Rating	30 L/min (8 USgpm)
Leakage	0.3 milliliters/min nominal (5 dpm)
Pilot Ratio	3:1
Cartridge Material	Working parts hardened & ground steel. Electroless zinc plated body.
Standard housing material	Standard aluminium (up to 210 bar) Add suffix 377" for steel option.
Mounting Position	Unrestricted.
Cavity Number	A6610
Torque Cartridge into cavity	45 Nm (33 lbs ft)
Weight	PCV30 0.08 kg (0.18 lbs) PCV35 0.34 kg (0.75 lbs) PCVK35 0.76 kg (1.67 lbs)
Seal Kit Number	SK430 (Nitrile) SK430V (Viton)
Recommended filtration level	BS5540/4 Class 18/13 (25 micron nominal)
Temperature	-30° C to +90° C (-22° to +194° F4)
Nominal viscosity range	5 to 500 cSt

Performance



Model Code

PCV30

1

Basic Code

PCV30 – Cartridge only

PCV35 – Cartridge & Body

PCVK34 – Cartridges & Dual body

Pilot Port Size
(Internal)
Seals
Seal S - Nitrile (for use with most industrial hydraulic oils)

SV – Viton (For high temperature and most special fluid applications)
Optional Pilot**3** – Required.

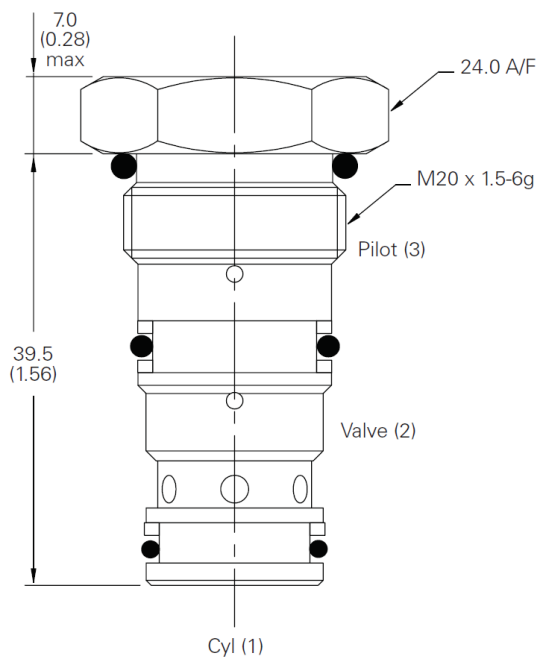
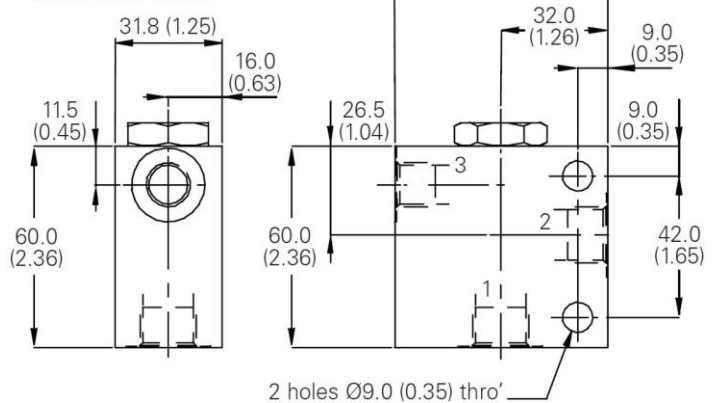
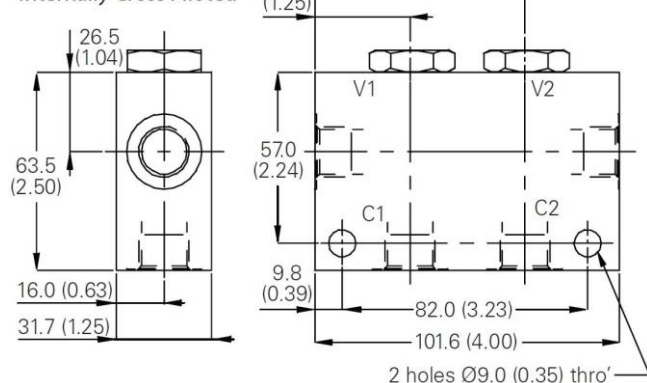
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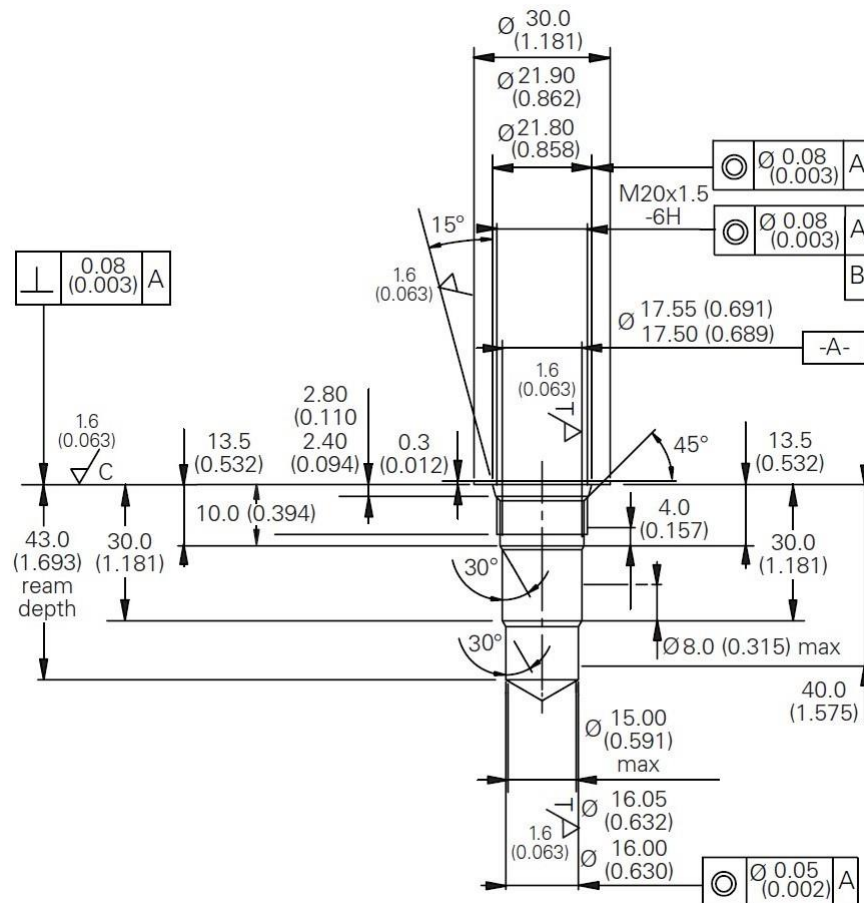
Port Size

Code	Port Size	Housing number – Body only			
		Aluminium Single	Steel Single	Aluminium Double	Steel Double
3W	3/8" BSP. 1/4" BSP Pilot Port	B6743	B12823	B6836	B13803
6T	3/8" SAE. 1/4" SAE Pilot port	B10536		B10805	
8T	1/2" SAE. 1/4" SAE Pilot port	B7884	B11811	B30237	B11812

Installation Specifications

Unit = Millimeter


 Single Valve
3/8", 1/2" Ports
Basic Code 4CK35

 Dual Valve
3/8", 1/2" Ports
Basic Code 4CKK34
Internally Cross Piloted




Cavity : A6610

Note : Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.