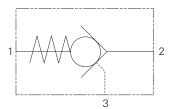
Pilot-to-open, poppet type 30 L/min (8 USgpm) • 350 Bar (5000 psi)



Operation

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.

Sectional View

Pilot (3)Valve (2) Cyl (1)

Performance Data

Ratings and Specifications

Ratings and Specifications					
Figures based on: Oil Temp = 40° C Viscosity = 32 cSt (150 SUS)					
Rated flow	30 L/min (8 USgpm)				
Max setting	350 bar (5000 psi)				
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 (See section M)				
Torque cartridge into cavity	45 Nm (33 lbs ft)				
Weight	4CK30 0.08 kg (0.18 lbs) 4CK35 0.34 kg (0.75 lbs) 4CKK35 0.76 kg (1.67 lbs)				
Seal kit number	SK430 (Nitrile) SK430V (Viton°)				
Recommended filtration level	BS5540/4 Class 18/13 (25 micron nominal)				
Operating temperature	-30°C to +90°C (-22° to +194°F)				
Leakage	0.3 milliliters/min nominal (5 dpm)				
Nominal viscosity range	scosity range 5 to 500 cSt				

Viton is a registered trademark of E.I. DuPont

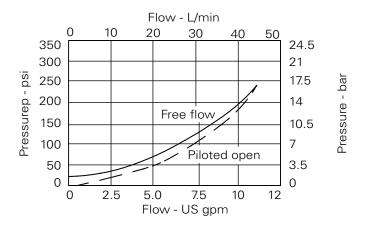
Description

G

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.

Pressure Drop

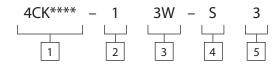




4CK30 - Check Valve

Pilot-to-open, poppet type 30 L/min (8 USgpm) • 350 Bar (5000 psi)

Model Code



1 Basic Code

4CK30 - Cartridge Only 4CK35 - Cartridge and Body

4CKK34 - Cartridges and

Dual Body

2 Pilot Port Size

1 - Internal

3 Port Sizes
Code Port Size

Code	Port Size	Housing Numb	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	

4 Seals

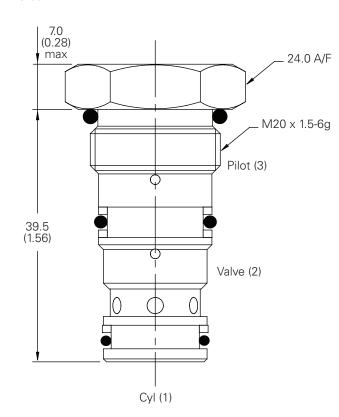
S - Nitrile (For use with most industrial hydraulic oils)

SV -Viton (For high temperature and most special fluid applications) 5 Optional Pilot Seal Omit if not required

Dimensions

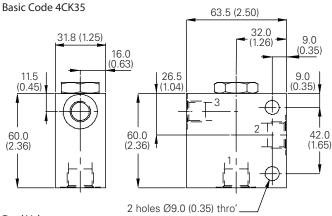
mm (inch)

Cartridge Only Basic Code 4CK30



Note: For applications above 210 bar (3000 psi) please consult our technical department or use the steel body option.





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

