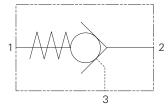
4CK30 - Check Valve

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



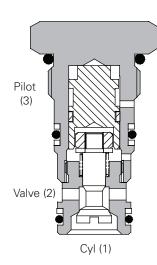
Operation

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



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.

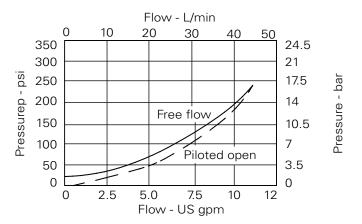
These valves are ideally suited for fitting directly into a cylinder, giving economy of installation, direct control of cylinder movement and ease of servicing.

Performance Data

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 optior
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	5 to 500 cS

Viton is a registered trademark of E.I. DuPont

Pressure Drop

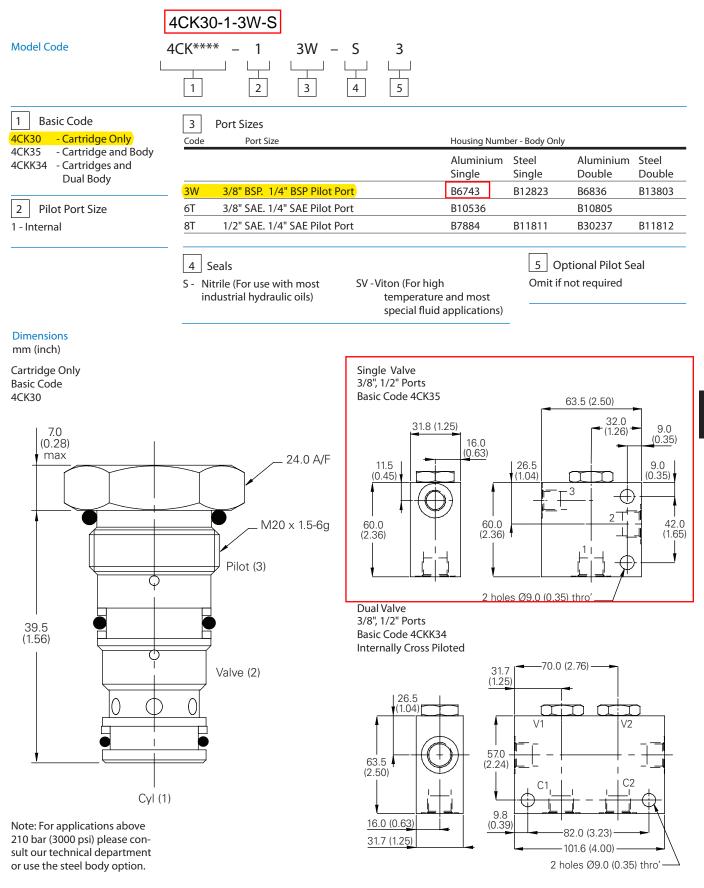


Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.



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Integrated Hydraulics An Eaton Brand



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