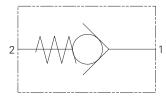
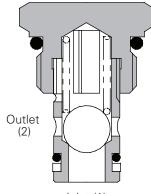
3CA20 - Check Valve

Direct acting, ball type 40 L/min (10 USgpm) • 350 bar (5000 psi)



Sectional View



Inlet (1)

Description

G

These cartridge check valves allow flow at a low pressure drop, with cracking pressure from 0.5 to 7 bar (7 to 100 psi) in the free flow direction and close to prevent flow in the reverse direction.

They fit into simply machined cavities and are therefore ideal for installation into custom designed Hydraulic Integrated Circuits, manifold blocks and other hydraulic equipment.

Operation

The valve remains closed until the spring bias is reached at port 1 at which time the poppet lifts of the seat and allows flow from port 1 to port 2. in the other direction the valve is closed.

Features

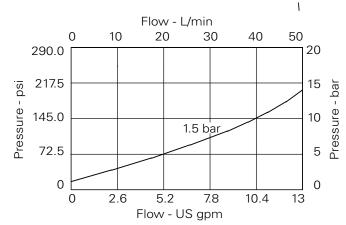
Cartridge design with machined seats and precision ground balls gives excellent flow reseat characteristics. Installation into the 2-port 7/8" UNF cavity gives easy fitment and serviceability.

Performance Data

Ratings and Specifications	
Figures based on oil temperature of 40° C a	and viscosity of 32 cSt (150 SUS)
Rated flow	40 L/min (10 USgpm
Maximum pressure	350 bar (5000 psi)
Cracking pressures	0.5 bar (7 psi) 1.5 bar (22 psi) 3.5 bar (50 psi) 7.0 bar (100 psi)
Cartridge material	All steel construction. External parts electroless zinc plated.
Standard housing material	Standard aluminum (up to 210 bar). Add suffix "377" for steel option.
Mounting position	Unrestricted
Cavity number	A879 (See Section M)
Torque cartridge into cavity	45 Nm (33 lbs. ft.)
Weight	0.05 kg (0.11 lbs.)
Seal kit number	SK396 (Nitrile), SK396V (Viton [°])
Recommended filtration level	BS5540/4 Class 18/3 (25 micron nominal)
Operating temperature	-30°C to +90°C (-22°C to +194°F)
Leakage	0.2 ml/min nominal
Nominal viscosity range	5 to 500 cSt

Viton is a registered trademark of E. I. DuPont

Pressure Drop Curves

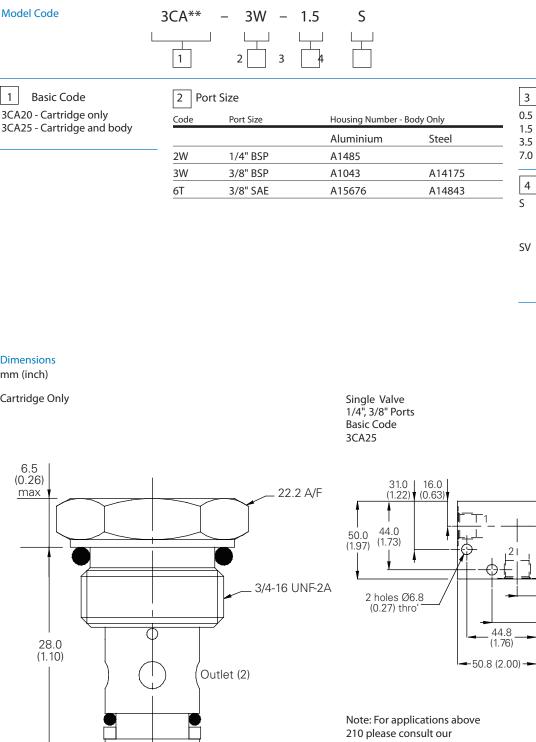


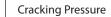
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.



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- 0.5 0.5 bar (7 psi)
- 1.5 1.5 bar (22 psi) 3.5 3.5 bar (50 psi)
- 7.0 7.0 bar (100 psi)

4 Seals

- Nitrile (For use with most industrial hydraulic oils)
- SV -Viton (for high temperature and most special fluid applications)

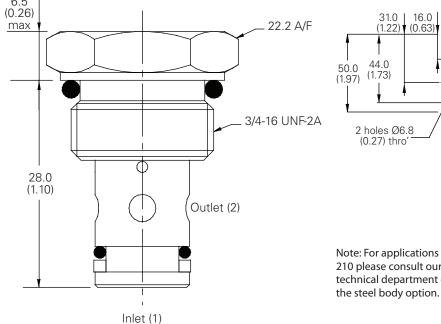
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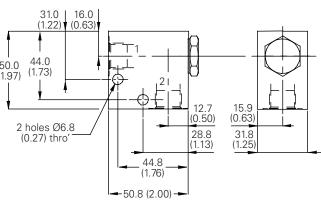
Dimensions

mm (inch)

1

Cartridge Only





technical department or use





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