

**APCO CRF-100SR RUBBER FLAPPER SWING
CHECK VALVE with Spring Return
SUGGESTED SPECIFICATION**

APPLICATION DATA 100.01-3

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Supersedes October 1, 2012



Rubber Flapper Swing Check Valves with Externally Adjustable Spring Return to be APCO model CRF (Body Style 100SR) as manufactured by DeZURIK, Inc. or pre-approved equal.

Externally Adjustable Spring Return shall be used to accelerate flapper closure before flow reversal can occur. The 302 stainless steel helical compression spring shall be adjustable externally without removing the cover from the valve and without removing the valve from service. The adjustment shall be made by means of an external sealed screw which provides infinite adjustment to the internal spring compression.

Body to be Ductile Iron ASTM A536 Grade 65-45-12 for sizes 2-24" (50-600mm) and Cast Iron ASTM A126 Grade B for size 30" (750mm).

Body Seat shall be on a 45 degree angle to the centerline of the pipe, permitting horizontal or vertical (flow up) installation. The valve shall be rated to 175 psi (1210 kPa) cold working pressure.

Rubber Flapper to have a steel disc encapsulated with Acrylonitrile-Butadiene (NBR), Chloroprene (CR), Terpolymer of Ethylene Propylene and A Diene (EPDM), or Fluoro Rubber (FKM). The flapper is captured between the body and valve cover to permit the disc to flex open and closed. An integral "O-ring" shall be molded onto the face of the rubber flapper for positive sealing.

Hinge Section of the rubber flapper shall be designed to accelerate closing due to an elastic spring effect. High-strength fabric shall be integrally molded in the rubber over the disc and bar to form a flexible joint giving the flapper a high cycle life.

Testing: Valve to be tested by the manufacturer as a complete assembly per AWWA C508.

Warranty: Valve shall be warranted by the manufacturer for defects in materials and workmanship for a period of two years (24 months) from date of shipment.