

**APCO CRF-100SA RUBBER FLAPPER SWING
CHECK VALVE with Spring Assist
SUGGESTED SPECIFICATION**

APPLICATION DATA 100.01-4

Page 1

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Supersedes October 1, 2012



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

Double Torsion Spring mounted internally shall be used to assist in closing. Spring is to be 313 stainless steel per ASTM A313 for sizes 4-16" and 17-7PH stainless steel per ASTM A313 for sizes 18" and larger. Double torsion spring shall be rigidly secured to the flapper.

Body to be Ductile Iron ASTM A536 Grade 65-45-12 for sizes 4-24" (100-600mm) and Cast Iron ASTM A126 Grade B cast iron 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.