

2-20" (50-500mm) APCO CVS-6000-OC Swing Check Valve with Oil Controlled Side Mounted Cylinder Specification

APPLICATION DATA 6000.01-3

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May 2016

Supersedes October 1, 2012



Swing Check Valves with Side Mounted Oil Control to be APCO model CVS-6000-OC (Series 6100) as manufactured by DeZURIK, Inc. or pre-approved equal.

Oil cylinder shall be secured to the pivot shaft adjacent to the weighted lever throughout the entire stroke. Designs where the weighted lever is not attached to the oil cylinder are not allowed. The cylinder shall have steel top and bottom heads with a heavy steel barrel.

The Oil Cushion to have three-stage closing control and be capable of control throughout the entire closing range. Each stage shall be independently adjustable.

First Stage: Timing valve permits rapid closure from full open and is adjustable to set the position where the second stage begins.

Second Stage: Closure speed is controlled by a color-coded micrometer type control valve with a locking set screw.

Third Stage: Cushioned cylinder head with speed adjustment for slower control of the last few degrees of travel.

The Oil Reservoir shall be 316 stainless steel per ASTM A240. Hydraulic hoses are to be S.A.E. certified.

Body shall be ASTM A536 ductile iron. End connections shall be flanged class 125/150 per ASME B16.1. Valves 6" and larger shall have a drain plug located on the bottom of the valve.

Body Seat shall be 316 stainless steel per ASTM A276 with an O-ring seal, and locked into place with stainless screws.

Disc and Disc Arm shall be ASTM A536 ductile iron. The disc shall be attached to the disc arm with a double clevis hinge to assure self-leveling and even load distribution upon closure, minimizing seat wear. Disc shall have an independent adjustable full open disc stop. The disc arm, valve body or cover is not to be used as the disc stop. Disc seat shall be nitrile butadiene (NBR) and field replaceable without the use of special tools.

Pivot shaft shall be heavy duty one-piece ASTM 564 Type 630, 17-4PH stainless steel protruding through both sides of the body with a lever & weight. The pivot shaft shall have an integral retainer to prevent axial shaft movement. The pivot shaft shall have O-rings seals on both sides of the shaft.

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

**ECCENTRIC PLUG VALVES
CARBON STEEL 450 PSI (3100 kPa) SERVICE
SUGGESTED SPECIFICATIONS**

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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.