

**APCO CSD SLANTING DISC CHECK VALVES  
with Bottom Mounted Buffer (BMB)  
SUGGESTED SPECIFICATION**

**APPLICATION DATA 800.01-3**  
Page 1  
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Slanting Disc Check Valves with Bottom Mounted Buffer to be APCO model CSD (Body Style 800) with Bottom Mounted Buffer (BMB), as manufactured by DeZURIK, Inc.

The Body to be Ductile Iron ASTM A536 Grade 65-45-12 for sizes 6-54" (150-1400mm) and Cast Iron ASTM A126 Grade B for sizes 60-72" (1500-1800mm). Bodies shall be a two piece-design, and on valves 6" & larger, each body half must have an access cover for internal inspection. Each 6" & larger body half shall have a removable cover to accept optional attachment of a Bottom Mounted Buffer (BMB) or Top Mounted Oil Dashpot (TMD). Disc stabilizers shall be cast into the valve body.

Body halves shall be o-ring sealed and bolted together to capture the seat ring at a 55 degree angle. The area through the seat section shall be 40% larger than the inlet and outlet of the valve.

The Disc shall have a "hydrofoil" design to create lift and provide low head loss. Discs shall be Bronze C90700 for sizes 2-10" (50-250mm) and Ductile Iron ASTM A536 Grade 65-45-12 on sizes 12" (300mm) and larger. A stainless steel indicator shall be provided to show the disc position.

The Body Seat and Disc Ring shall be Bronze ASTM B271 Alloy C92200 or 316 Stainless Steel per ASTM A296 and manufactured to be field replaceable without any special tools.

The Pivot Pins shall be 303 stainless steel per ASTM A562. Pivot pin bushings shall be 304 stainless steel per ASTM A296.

Bottom hydraulic buffer permits free opening, but positive non-slam closure of the disc. The oil hydraulic buffer shall make contact with the disc during the final 10% of closure to control the disc until shut-off in a manner to prevent slam and water hammer.

The buffer rod shall be 303 stainless steel per ASTM A582. The final closure is to be adjustable by means of a color-coded micrometer type control valve. Control valve to have a locking set screw to secure final setting.

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

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.