

MUELLER® SA-Series Check Valve

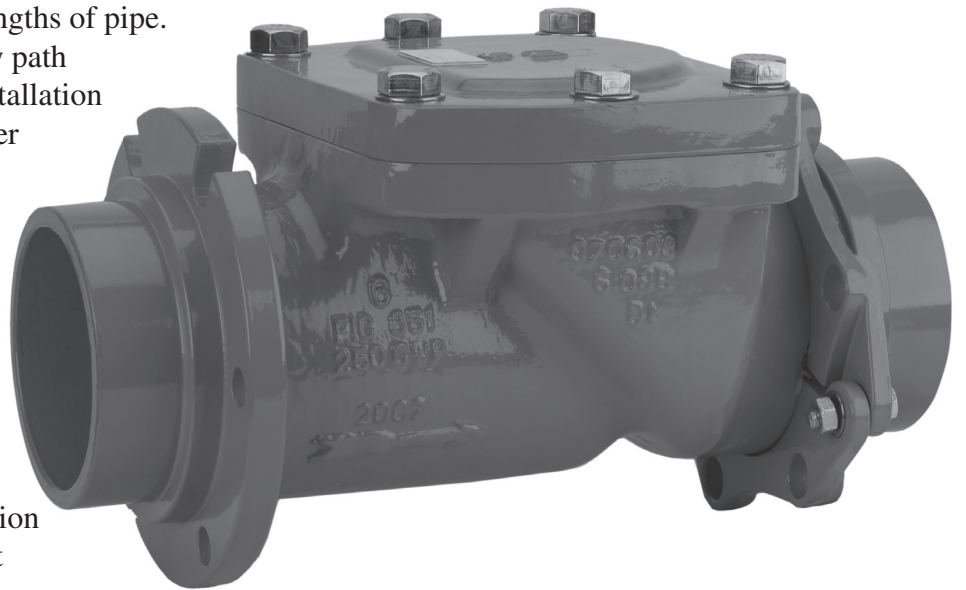
Integral Male MJ Ends • Maintenance Free Construction

The Mueller SA Series Check Valve has male mechanical joint ends that attach directly to any standard 6" MJ connection without additional lengths of pipe. Its large 100% unobstructed flow path makes it especially suited for installation on fire hydrants and in wastewater applications.

The SA-Series valve makes it easy to protect against accidental or deliberate contamination of the water supply by way of fire hydrants. It attaches easily to the MJ shoe of any brand hydrant, where it provides round-the-clock protection without affecting normal hydrant operation or maintenance.

One moving part – an EDPM encapsulated steel disc reinforced with nylon fabric – and a strong ductile iron body make this valve dependable and maintenance free. Other features include:

- Inherent non-slam, quiet operation
- Bubble-tight shut off, without backflow
- Swivel MJ gland on one end aids pipe or valve alignment
- Liquid thermosetting epoxy coated interior
- Universal primer enamel on exterior
- Stainless steel bolts
- Domed bonnet for easy inspection of flexible disc and seat



The body seat is at a 45 degree angle to reduce the travel of the disc to the full open position, and significantly reduce the potential for water hammer when closing. The flow area is equal to or greater than the equivalent pipe size throughout for low head loss. The valve is suitable for horizontal or vertical (flow upwards) mounting and is rated at 250 psig (1724 kPa).

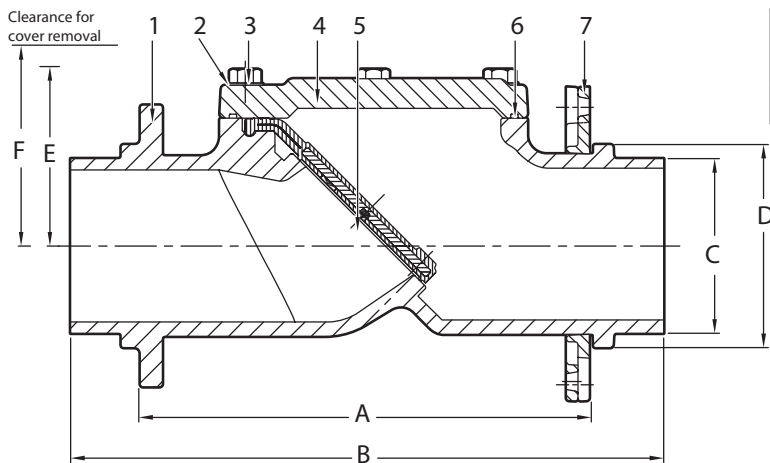
Materials of Construction

| No | Description | Material | ASTM Designation |
|----|---------------|------------------|------------------------|
| 1 | Body | Ductile Iron | ASTM A-536-Gr 65-45-12 |
| 2 | Washer | Stainless Steel | A276 Type 304 |
| 3 | Cover Bolt | Stainless Steel | A276 Type 304 |
| 4 | Cover | Ductile Iron | ASTM A-536-Gr 65-45-12 |
| 5 | Disc | Steel and Rubber | ASTM and D2000 |
| 6 | O-ring | Rubber (Buna N) | D2000 |
| 7 | Swivel Flange | Ductile Iron | ASTM A-536-Gr 65-45-12 |

Dimension 'F' Clearance Required to Remove Access Cover

| Valve Size* | A | B | C | D | E | F |
|-------------|--------|-------|------|-------|-------|--------|
| 6 | 17.63" | 24.5" | 6.9" | 8.02" | 6.81" | 11.00" |

*Nominal



Suggested Specification

Check valve shall be of the anchoring type (male mechanical joint on one end, male mechanical joint with swivel gland on other end) with no internal moving parts except for the resilient disc. Valves shall be rated to 250 psi.

The valve body shall be constructed of ductile iron ASTM A-536 Grade 65-45-12 with flow area equal to the nominal pipe inside diameter throughout the valve. Seat shall be constructed on a 45 degree angle to reduce disc travel. The seat and internal body shall be fully coated with a two part thermosetting epoxy suitable for use in both potable water and wastewater applications.

The domed bonnet shall be manufactured of ductile iron ASTM A-536 Grade 65-45-12. The bonnet-to-body seal shall be provided by a gasket to allow easy removal and replacement of the access bonnet. Bonnet bolting shall be 304 SS.

The resilient disc shall feature a fully encapsulated steel pressure plate with integral molded O-ring on the face of the elastomer. Nylon reinforcements shall be provided in the flexible hinge area of the disc assembly.



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