

Check Valves Series SuperAlloy Valves

Check Valves

Overview

Max-Seal manufactures a comprehensive range of check valves in sizes up to 60" (1500mm) in ASME class from 150LB to 2500LB. The valves are offered in a variety of body styles, materials and trims options to address severe services in Petrochemical, Offshore Oil & Gas, Mining Operations, Water Treatment and FPSO etc.

Max-Seal Check Valves meet the requirements of API 6D and can be offered with API 6D monogram. The valves are certified with EAC, ATEX, and meet the requirements of ISO 15848-1 (Fugitive Emission). All critical machining operations are carried out on machining centers and CNC machines.

Products Overview

Swing Check Valve

Size: 1½" to 32"
Rating: 150LB to 2500LB

Design: BS1868, BS5352, ASME B16.34
Fact-to-face: ASME B16.10
Flange end: ASME B16.5, ASME B16.47
Test and Inspection: API 598, API 6D



Duo Check Valve

Size: 2" to 60"
Rating: 150LB to 2500LB

Design: API 594, ASME B16.34
Fact-to-face: API 594
Flange end: ASME B16.34
Test and Inspection: API 598



Nozzle Check Valve

Size: 2" to 12"
Rating: 150LB to 1500LB

Design: B16.34
Fact-to-face: MFR STD
Flange end: ASME B16.5
Test and Inspection: API 598



Notes: Other unspecified standards and sizes available

Swing Check Valves

General Highlights

Max-Seal Swing Check Valves are with full port design, with high quality cast and afterwards precisely machined, directing the attention to prevent stress contraction. Technical highlights mentioned as below are the general characteristics of Max-Seal Swing Check Valves. Other unspecified features are available upon request.

Other available options as follows:

- NACE Service
- Special Cleaning for Oxygen Service
- Fugitive Emission Design

Technical Features

1. Eyebolt hook design upon size $\geq 4"$, easy for on-side installation.
2. Fully capped spiral wound gasket inserted in valve groove as per figure 1.
3. Keep tight, long last, and reliable sealing performance.
4. The design of the body/cover gasket varies depending on the class of the valve. Class 150 to 600 check valves consist of a bolted connection with a graphite or spiral wound gasket. Class 900 and above check valves consist of a ring type joint. In pressure seal designs the sealing is achieved through a gasket that takes advantage of the internal pressure of the line. The material most commonly used is high purity graphite being located between the body and the body retainer ring.
5. Bolted bonnet connection for easy access to internals.
6. Retainerless design for pin and disc connection as per figure 2, ensure the sealing performance.
7. Integral Metal Seat applicable for high temp application, and easy for disc maintenance.
8. Body waist drum structure with good streamline and large CV values and strong circulation.

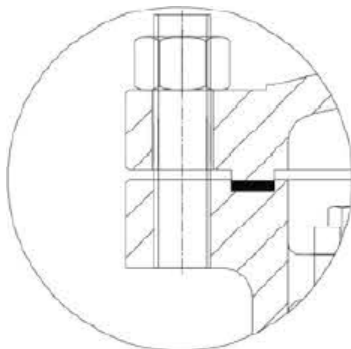


Figure 1

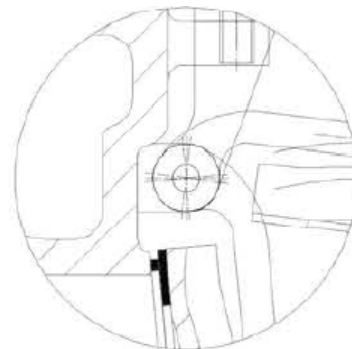


Figure 2

Notes:
This design sketch is for typical and basic Swing Check Valve.
The actual design of a valve differs to this and depends on detail size and pressure rating