

API 6A PR2 10,000psi Choke Valve

EGC Seal Design



Stem Seal: S19800-05

Valve Overview

Valve Type	Choke Valve
Stem diameter	60 mm (2.362 in)
Housing Diameter	72 mm (2.835 in)
Design Pressure	690 bar (10,000 psi)
Max. Test Pressure	1034 bar (15,000 psi)
Min. Temperature	-46°C (-50.8°F)
Max. Temperature	150°C (302°F)

Testing Details and Results

Hydrostatic Pressure Test, Primary Stem Seal

- Media: Water
- Temperature: 24°C (75°F)
- Test Details: Pressurize the test fixture to 15,000 psig and dwell for 1 hour.
- Results: PASSED. No change in pressure observed.



Case studies

ISO15848 Class BH (>C01 endurance class)

- Media: Helium
- Temperature: 121°C (250°F)
- Mechanical Cycles: 500
- Test Details: Pressurize the test fixture to 10,000 psig and dwell for 1 hour.
- Results: PASSED. Leak rate 1E-5 mbar l/s

ISO15848 Class BH C01 endurance class, High Temperature

- Media: Helium
- Temperature: 24°C to 150°C (75°F to 302°F)
- Mechanical Cycles: 205
- Test Details: Per ISO 15848
- Results: PASSED. Leak rate 2.2E-5 mbar l/s

ISO15848 Class BH C01 endurance class, Low Temperature

- Media: Helium
- Temperature: -46°C to 24°C (-50°F to 75°F)
- Mechanical Cycles: 205
- Test Details: Per ISO 15848
- Results: PASSED. Leak rate 3E-5 mbar l/s

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