Dixon Eagle®
Bellows Seal Valves

The Right Connection®

Our valves are one of the original bellows seal valve brands and are specified in many process plants where valve stem leakage can't be tolerated. Eagle has a long history of reliability in steam, heat transfer oil, and toxic inhalation hazard applications making our technology an excellent choice when looking to reduce fugitive emissions.

1/2" - 2" Forged Steel Gate and Globe Valves API 602 Design

Features

- Options for Inconel™ or stainless steel bellows provide long life and maximum corrosion resistance
- Zero stem leakage eliminates media loss and satisfies environmental regulations
- Zero maintenance results in lower operating costs / no downtime
- Reduces monitoring costs
- Three stem seals for safety: metal bellows, graphite packing, backseat in open position
- Hard-faced Stellite® 6 seating surface provides long life: soft seat available
- Additional alloys, trims, and other end configurations available
- Class 150 - Class 800 available

Specifications

- API 602 design
- Valve tested to ASME B16.34 / API 598
- Meets MSS SP-117
- 5-year bellows warranty

3" - 16" Cast Steel Gate and Globe Valves API and ASME Designs

Features

- Inconel™ bellows provide long life and maximum corrosion resistance
- Zero stem leakage eliminates media loss and satisfies environmental regulations
- Zero maintenance results in lower operating costs / no downtime
- Reduces monitoring costs
- Three stem seals for safety: metal bellows, graphite packing, backseat in open position
- Hard-faced Stellite® 6 seating surface provides long life: soft seat available
- Additional alloys, trims, and other end configurations available
- Class 150 - Class 600 available

Specifications

- Valve tested to ASME B16.34 / API 598
- Meets MSS SP-117
- 5-year bellows warranty

F-Series
Class 800

G-Series
Class 800

W-Series
Class 800

H-Series
Class 800

J-Series
Class 300

Dixon

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Dixon Eagle® Bellows Seal Valves Technical Information

Pressure and temperature ratings show the maximum allowable working pressure at temperatures from **-20°F (-29°C)** to the maximum allowable for the materials. They are established by stress calculations utilizing the minimum wall thickness and the maximum allowable stress of the materials at the specified temperatures.

Because the maximum allowable stress of any kind of material always decreases as the temperature increases, the maximum allowable working pressure for the component always decreases as the temperature increases, as shown in the tables. Relevant portions of the American National Standard Institute B 16.34 - 2017, pressure-temperature ratings are reproduced below:

Flanged, Threaded, and Weld End - Stainless (A182 F316L)

Temperature		Working Pressures by Class, PSIG					
°F	°C	150	300	600	800	900	1,500
-20° to 100°	-29° to 38°	230	600	1,200	1,600	1,800	3,000
200°	93°	195	510	1,020	1,365	1,535	2,555
300°	149°	175	455	910	1,215	1,370	2,280
400°	204°	160	420	840	1,120	1,260	2,100
500°	260°	150	395	785	1,050	1,180	1,970
600°	316°	140	370	745	990	1,115	1,860
650°	343°	125	365	730	975	1,095	1,825
700°	371°	110	360	720	960	1,080	1,800
750°	399°	110	355	705	940	1,060	1,765
800°	427°	80	345	690	920	1,035	1,730
850°	454°	65	340	675	900	1,015	1,690

Flange, Threaded, and Weld End - Carbon Steel (A105)

Temperature		Working Pressures by Class, PSIG					
°F	°C	150	300	600	800	900	1,500
-20° to 100°	-29° to 38°	285	740	1,480	1,975	2,220	3,705
200°	93°	260	680	1,360	1,810	2,035	3,395
300°	149°	230	655	1,310	1,745	1,965	3,270
400°	204°	200	635	1,265	1,690	1,900	3,170
500°	260°	170	605	1,205	1,610	1,810	3,015
600°	316°	140	570	1,135	1,515	1,705	2,840
650°	343°	125	550	1,100	1,465	1,650	2,745
700°	371°	110	530	1,060	1,415	1,590	2,665
750°	399°	95	505	1,015	1,350	1,520	2,535
800°	427°	80	410	825	1,100	1,235	2,055
850°	454°	65	320	640	850	955	1,595
900°	482	50	230	460	615	690	1,150
950°	510	35	135	275	365	410	685
1,000°	537	20	85	170	225	255	430

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