



The Right Connection®

# Dixon Eagle Bellows Seal Valves

## Pressure-Temperature Ratings

Pressure - temperature ratings show the maximum allowable working pressure at temperatures from **-20°F (-28°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 on the tables. Relevant portions of the American National Standard Institute B 16.34 - 2013, 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	1500
-20° to 100°	-28° to 37°	230	600	1200	1600	1800	3000
200°	93°	195	510	1020	1365	1535	2555
300°	148°	175	455	910	1215	1370	2280
400°	204°	160	420	840	1120	1260	2100
500°	260°	150	395	785	1050	1180	1970
600°	315°	140	370	745	990	1115	1860
650°	343°	125	365	730	975	1095	1825
700°	371°	110	360	720	960	1080	1800
750°	398°	110	355	705	940	1060	1765
800°	426°	80	345	690	920	1035	1730
850°	454°	65	340	675	900	1015	1690

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

Temperature		Working Pressures by Class, PSIG					
°F	°C	150	300	600	800	900	1500
-20° to 100°	-28° to 37°	285	740	1480	1975	2220	3705
200°	93°	260	680	1360	1810	2035	3395
300°	148°	230	655	1310	1745	1965	3270
400°	204°	200	635	1265	1690	1900	3170
500°	260°	170	605	1205	1610	1810	3015
600°	315°	140	570	1135	1515	1705	2840
650°	343°	125	550	1100	1465	1650	2745
700°	371°	110	530	1060	1415	1590	2665
750°	398°	95	505	1015	1350	1520	2535
800°	426°	80	410	825	1100	1235	2055
850°	454°	65	320	640	850	955	1595
900°	482	50	230	460	615	690	1150
950°	510	35	135	275	365	410	685
1000°	537	20	85	170	225	255	430

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