



## Pressure - Temperature Charts

Threaded and Socket Weld End Valves							
Service Temperature °F	600 - 800			1500		2500	
	(1) (5) Carbon Steel A105	(2) (6) A182-F11	(2) A182-F316	(3) (5) Carbon Steel A105	(3) A182-F316	(4) (5) Carbon Steel A105	(4) (6) A182-F22
100	2000	2000	1920	3705	3600	6250	6250
200	1940	1900	1650	3375	3095	6250	6250
300	1895	1795	1490	3280	2795	6250	6250
400	1850	1755	1370	3170	2570	6250	6250
500	1735	1710	1275	2995	2390	6250	6145
600	1540	1615	1205	2735	2255	5940	6145
650	1430	1570	1185	2685	2220	5825	6145
700	1305	1515	1150	2665	2160	5780	6110
750	1180	1420	1125	2520	2110	5250	6070
800	1015	1355	1105	2060	2075	4285	6000
850	800	1300	1060	1340	2030	2785	5645
900	600	1200	1050	860	1970	1785	5000
950	425	1005	1030	515	1930	1110	4075
1000	235	595	970	260	1820	600	3120
1050	–	365	960	–	1800	–	2315
1100	–	255	860	–	1610	–	1320
1150	–	140	730	–	1370	–	1195
1200	–	90	550	–	1030	–	635

ANSI Standard Flanges Flanged and Butt Weld End Valves				
Service Temperature °F	150	300	600	1500
	(3) (5) Carbon Steel A105	(3) (5) Carbon Steel A105	(3) (5) Carbon Steel A105	(3) (5) Carbon Steel A105
100	285	740	1480	3705
200	260	675	1350	3375
300	230	655	1315	3280
400	200	635	1270	3170
500	170	600	1200	2995
600	140	550	1095	2735
650	125	535	1075	2685
700	110	535	1065	2665
750	95	505	1010	2520
800	80	410	825	2060
850	65	270	535	1340
900	50	170	345	860
950	35	105	205	515
1000	20	50	105	260

- (1) Ratings are in accordance with API 602
- (2) Ratings are in accordance with procedures in ANSI B16.34
- (3) Ratings are in accordance with ANSI B16.34
- (4) Ratings are in accordance with MSS-SP-84a
- (5) Permissible but not recommended for prolonged use above 800°
- (6) Permissible but not recommended for prolonged use above 1100°F