

Pressure Ratings

NPT/ISO Pipe Pressure Ratings

Ratings are based on ASME Code for Pressure Piping B31.3, Process Piping, at ambient temperature.

NPT/ISO Pipe Size in.	316 SS, Carbon Steel, Alloy (600, and C-276)		Brass and Aluminum		Alloy 400		Titanium		Alloy 2507 and Alloy 625		6-Moly		Alloy 825	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	psig (bar)	psig (bar)	psig (bar)	psig (bar)	psig (bar)	psig (bar)	psig (bar)	psig (bar)	psig (bar)	psig (bar)	psig (bar)	psig (bar)	psig (bar)	psig (bar)
1/16	11 000 (757)	6 700 (461)	5 500 (378)	3 300 (227)	9 900 (682)	6 000 (413)	8 800 (606)	5 300 (365)	15 000 (1 033)	12 900 (888)	14 900 (1 026)	9 000 (620)	12 800 (881)	7800 (537)
1/8	10 000 (689)	6 500 (447)	5 000 (344)	3 200 (220)	9 000 (620)	5 800 (399)	8 000 (551)	5 200 (358)	15 000 (1 033)	12 500 (861)	13 500 (930)	8 800 (606)	11 600 (799)	7500 (516)
1/4	8 000 (551)	6 600 (454)	4 000 (275)	3 300 (227)	7 200 (496)	5 900 (406)	6 400 (440)	5 200 (358)	15 000 (1 033)	12 700 (875)	10 800 (744)	8 900 (613)	9 300 (640)	7600 (523)
3/8	7 800 (537)	5 300 (365)	3 900 (268)	2 600 (179)	7 000 (482)	4 700 (323)	6 200 (427)	4 200 (289)	15 000 (1 033)	10 200 (702)	10 500 (723)	7 100 (489)	9 000 (620)	6100 (420)
1/2	7 700 (530)	4 900 (337)	3 800 (261)	2 400 (165)	6 900 (475)	4 400 (303)	6 100 (420)	3 900 (268)	14 800 (1 019)	9 400 (647)	10 400 (716)	6 600 (454)	8 900 (613)	5700 (392)
3/4	7 300 (502)	4 600 (316)	3 600 (248)	2 300 (158)	6 500 (447)	4 100 (282)	5 800 (399)	3 600 (248)	10 000 (689)	8 900 (613)	9 800 (675)	6 200 (427)	8 500 (585)	5300 (365)
1	5 300 (365)	4 400 (303)	2 600 (179)	2 200 (151)	4 700 (323)	3 900 (268)	4 200 (289)	3 500 (241)	10 000 (689)	8 500 (585)	7 100 (489)	5 900 (406)	6 100 (420)	5100 (351)
1 1/4	6 000 (413)	5 000 (344)	3 000 (206)	2 500 (172)	5 400 (372)	4 500 (310)	4 800 (330)	4 000 (275)	10 000 (689)	9 600 (661)	8 100 (558)	6 700 (461)	6 900 (475)	5800 (399)
1 1/2	5 000 (344)	4 600 (316)	2 500 (172)	2 300 (158)	4 500 (310)	4 100 (282)	4 000 (275)	3 600 (248)	9 600 (661)	8 900 (613)	6 700 (461)	6 200 (427)	5 800 (399)	5300 (365)
2	3 900 (268)	3 900 (268)	1 900 (130)	1 900 (130)	3 500 (241)	3 500 (241)	3 100 (213)	3 100 (213)	7 500 (516)	7 500 (516)	5 200 (358)	5 200 (358)	4 500 (310)	4500 (310)

■ To determine pressure ratings in accordance with ASME B31.1, Power Piping:

■ carbon steel material—multiply by 0.85.

Stainless steel and brass material ratings remain the same.

■ To determine MPa, multiply bar by 0.10.