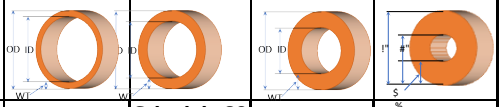
The following charts are representative of a typical chart showing schedule numbers and nominal sizes with their respective maximum pressures.

US Pipe Size and Pressure Ratings based on Pipe Schedule.

Wp = Working pressure with safety factor. **Bp** = Burst pressure based on Barlow's Formula.

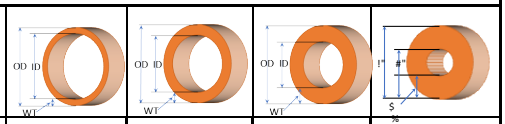


Nominal Pipe Size inch	Actual Outside Diameter inch	Schedule 40 Standard		Schedule 80 Extra Heavy		Schedule 160		Double Extra Heavy	
(NPS)	(OD)	WT	ID	WT	ID	WT	ID	WT	ID
1/8	0.405	0.136	0.269	0.190	0.215			Tensile 55,000	
Wp 4:1		9,235		12,901					
Wp 6:1		6,156		8,601					
Bp		36,938		51,605					
1/4	0.540	0.176	0.364	0.238	0.302				
Wp 4:1		8,963		12,120					
Wp 6:1		5,975		8,080					
Bp		35,852		48,481					
3/8	0.675	0.182	0.493	0.252	0.423				
Wp 4:1		7,415		10,267					
Wp 6:1		4,943		6,844					
Bp		29,659		41,067					
1/2	0.840	0.218	0.622	0.294	0.546	0.374	0.466	0.588	0.252
Wp 4:1		7,137		9,625		12,244		19,250	
Wp 6:1		4,758		6,417		8,163		12,833	
Bp		28,548		38,500		48,976		77,000	
3/4	1.050	0.226	0.824	0.308	0.742	0.436	0.614	0.616	0.434
Wp 4:1		5,919		8,067		11,419		16,133	
Wp 6:1		3,946		5,378		7,613		10,756	
Bp		23,676		32,267		45,676		64,533	
1	1.315	0.266	1.049	0.358	0.957	0.500	0.815	0.716	0.599
Wp 4:1		5,563		7,487		10,456		14,973	
Wp 6:1		3,708		4,991		6,971		9,982	
Bp		22,251		29,947		41,825		59,894	
1 1/4	1.660	0.280	1.380	0.382	1.278	0.500	1.160	0.764	0.896
Wp 4:1		4,639		6,328		8,283		12,657	
Wp 6:1		3,092		4,219		5,522		8,438	
Bp		18,554		25,313		33,133		50,627	
1 1/2	1.900	0.290	1.610	0.400	1.500	0.562	1.338	0.800	1.100
Wp 4:1		4,197		5,789		8,134		11,579	
Wp 6:1		2,798		3,860		5,423		7,719	
Bp		16,789		23,158		32,537		46,316	
2	2.375	0.308	2.067	0.436	1.939	0.686	1.689	0.872	1.503
Wp 4:1		3,566		5,048		7,943		10,097	
Wp 6:1		2,378		3,366		5,295		6,731	
Bp		14,265		20,194		31,773		40,387	
2 1/2	2.875	0.406	2.469	0.552	2.323	0.750	2.125	1.104	1.771
Wp 4:1		3,883		5,280		7,174		10,560	
Wp 6:1		2,589		3,520		4,783		7,040	
Bp		15,534		21,120		28,696		42,240	
3	3.500	0.432	3.068	0.600	2.900				
Wp 4:1		3,394		4,714					
Wp 6:1		2,263		3,143					
Bp		13,577		18,857					
3 1/2	4.000	0.452	3.548	0.636	3.364	1.376	2.624		
Wp 4:1		3,108		4,373		9,460			
Wp 6:1		2,072		2,915		6,307			
Bp		12,430		17,490		37,840			
4	4.500	0.474	4.026	0.674	3.826	1.062	3.438		
Wp 4:1		2,897		4,119		6,490			
Wp 6:1		1,931		2,746		4,327			
Bp		11,587		16,476		25,960			
5	5.563	0.516	5.047	0.750	4.813	1.250	4.313	1.500	4.063
Wp 4:1		2,551		3,708		6,179		7,415	
Wp 6:1		1,701		2,472		4,119		4,943	
Bp		10,203		14,830		24,717		29,660	
6	6.625	0.560	6.065	0.864	5.761	1.436	5.189	1.728	4.897
Wp 4:1		2,325		3,586		5,961		7,173	
Wp 6:1		1,550		2,391		3,974		4,782	
Bp		9,298		14,346		23,843		28,691	
8	8.625	0.644	7.981	1.000	7.625	1.812	6.813	1.750	6.875
Wp 4:1		2,053		3,188		5,777		5,580	
Wp 6:1		1,369		2,126		3,852		3,720	
Bp		8,213		12,754		23,110		22,319	
10	10.750	0.730	10.020	1.186	9.564	2.250	8.500	2.000	8.750
Wp 4:1		1,867		3,034		5,756		5,116	
Wp 6:1		1,245		2,023		3,837		3,411	
Bp		7,470		12,136		23,023		20,465	
12	12.750	0.816	11.934	1.374	11.376	2.624	10.126	2.000	10.750
Wp 4:1		1,760		2,964		5,660		4,314	
Wp 6:1		1,173		1,976		3,773		2,876	
Bp		7,040		11,854		22,638		17,255	

This chart is based on Barlow's Formula, Burst Pressure$_{psi}$ = (2 x Wall Thickness$_{inches}$ x Material Strength$_{psi}$)/ Tube Outside Diameter$_{inches}$; using carbon steel pipe with a tensile strength of 55,000 psi. The working pressure is derived by dividing the burst pressure by a design safety factor.

Metric Pipe Size and Pressure Ratings based on Pipe Schedule.

Wp = Working pressure with safety factor. **Bp** = Burst pressure based on Barlow's Formula.



Nominal Pipe Size mm	Actual Outside Diameter mm	Schedule 40 Standard		Schedule 80 Extra Heavy		Schedule 160		Double Extra Heavy	
(DN)	(OD)	WT	ID	WT	ID	WT	ID	WT	ID
6	10.29	3.45	6.83	4.83	5.46			Tensile 380	
Wp 4:1		64		89					
Wp 6:1		43		60					
Bp		256		357					
8	13.72	4.47	9.25	6.05	7.67				
Wp 4:1		62		84					
Wp 6:1		41		56					
Bp		248		335					
10	17.15	4.62	12.52	6.40	10.74				
Wp 4:1		51		71					
Wp 6:1		34		47					
Bp		205		284					
15	21.34	5.54	15.80	7.47	13.87	9.50	11.84	14.94	6.40
Wp 4:1		49		67		85		133	
Wp 6:1		33		44		56		89	
Bp		197		266		339		533	
20	26.67	5.74	20.93	7.82	18.85	11.07	15.60	15.65	11.02
Wp 4:1		41		56		79		112	
Wp 6:1		27		37		53		74	
Bp		164		223		316		446	
25	33.40	6.76	26.64	9.09	24.31	12.70	20.70	18.19	15.21
Wp 4:1		38		52		72		104	
Wp 6:1		26		35		48		69	
Bp		154		207		289		414	
32	42.16	7.11	35.05	9.70	32.46	12.70	29.46	19.41	22.76
Wp 4:1		32		44		57		88	
Wp 6:1		21		29		38		58	
Bp		128		175		229		350	
40	48.26	7.37	40.89	10.16	38.10	14.27	33.99	20.32	27.94
Wp 4:1		29		40		56		80	
Wp 6:1		19		27		38		53	
Bp		116		160		225		320	
50	60.33	7.82	52.50	11.07	49.25	17.42	42.90	22.15	38.18
Wp 4:1		25		35		55		70	
Wp 6:1		16		23		37		47	
Bp		99		140		220		279	
65	73.03	10.31	62.71	14.02	59.00	19.05	53.98	28.04	44.98
Wp 4:1		27		37		50		73	
Wp 6:1		18		24		33		49	
Bp		107		146		199		292	
80	88.90	10.97	77.93	15.24	73.66				
Wp 4:1		23		33					
Wp 6:1		16		22					
Bp		94		130					
90	101.60	11.48	90.12	16.15	85.45	34.95	66.65		
Wp 4:1		21		30		65			
Wp 6:1		14		20		44			
Bp		86		121		262			
100	114.30	12.04	102.26	17.12	97.18	26.97	87.33		
Wp 4:1		20		28		45			
Wp 6:1		13		19		30			
Bp		80		114		180			
125	141.30	13.11	128.19	19.05	122.25	31.75	109.55	38.10	103.20
Wp 4:1		18		26		43		51	
Wp 6:1		12		17		28		34	
Bp		71		103		171		205	
150	168.28	14.22	154.05	21.95	146.33	36.47	131.80	43.89	124.38
Wp 4:1		16		25		41		50	
Wp 6:1		11		17		27		33	
Bp		64		99		165		198	
200	219.08	16.36	202.72	25.40	193.68	46.02	173.05	44.45	174.63
Wp 4:1		14		22		40		39	
Wp 6:1		9		15		27		26	
Bp		57		88		160		154	
250	273.05	18.54	254.51	30.12	242.93	57.15	215.90	50.80	222.25
Wp 4:1		13		21		40		35	
Wp 6:1		9		14		27		24	
Bp		52		84		159		142	
300	323.85	20.73	303.12	34.90	288.95	66.65	257.20	50.80	273.05
Wp 4:1		12		21		39		30	
Wp 6:1		8		14		26		20	
Bp		49		82		157		119	

This chart is based on Barlow's Formula, Burst Pressure$_{MPa}$ = (2 x Wall Thickness$_{mm}$ x Material Strength$_{MPa}$)/ Tube Outside Diameter$_{mm}$; using carbon steel pipe with a tensile strength of 380 MPa. The working pressure is derived by dividing the burst pressure by a design safety factor.