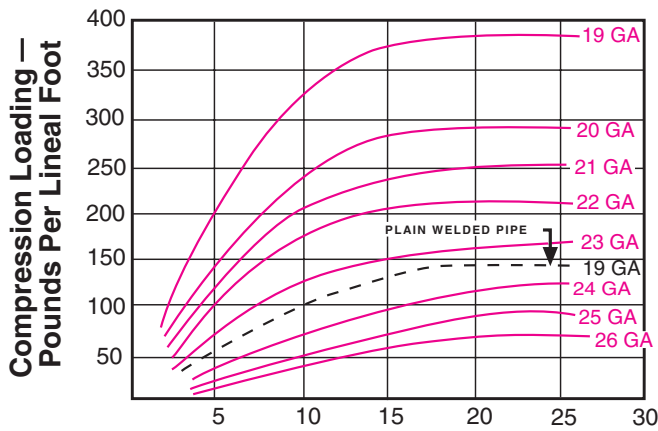
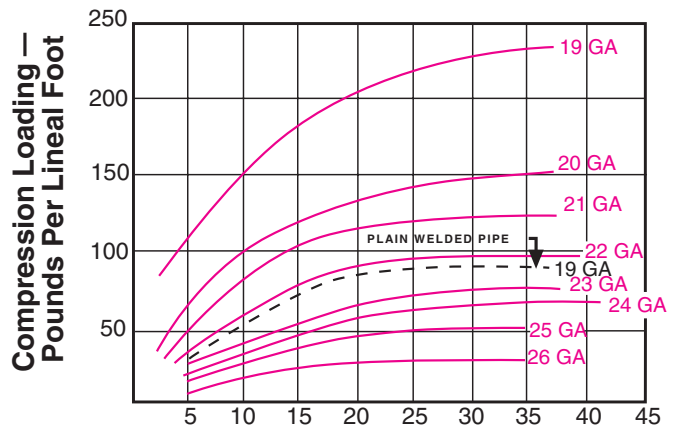


PHYSICAL PROPERTIES OF SPIRAL PIPE



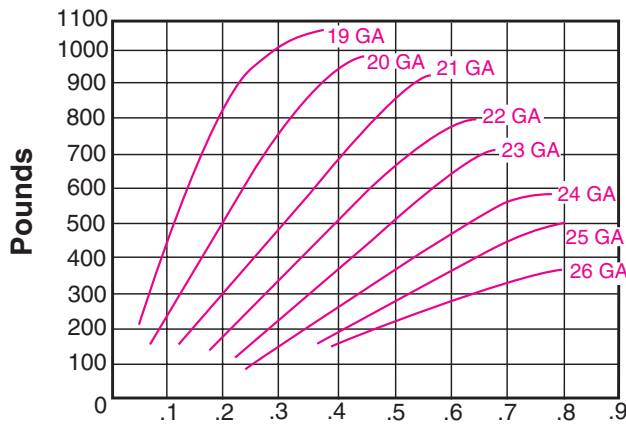
% Compression (Flattening)

Compression Loading 8"
Diameter Spiral Pipe



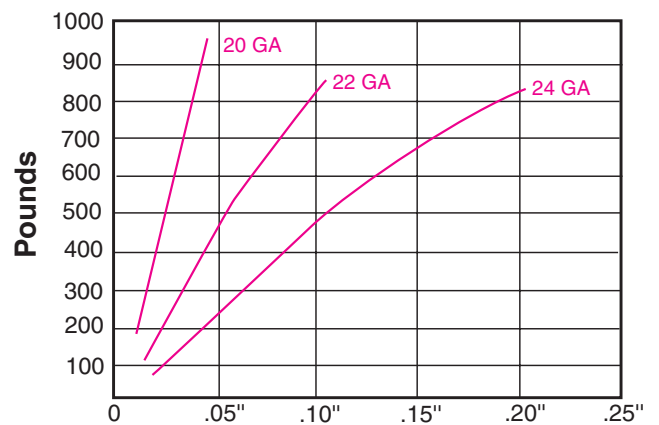
% Compression (Flattening)

Compression Loading 12"
Diameter Spiral Pipe



Inches of Deflection – Supported 6.5 FT. Centers

8" Pipe. End-Supported
with Center Load



Inches of Deflection – Supported 6.5 FT. Centers

12" Pipe. End-Supported
with Center Load

Special Made Fittings

Special items are made on time and material basis. Once accepted for production, they cannot be cancelled, nor can they be returned for credit.

Check Measurements Carefully!

Diameters, Gauge and Strength Properties of Spiral Pipe.

Nominal Diameter (inches)	Steel Gauge		Bursting Pressure (Seam Failure) P.S.I.		Internal Negative Pressure To Collapse Standard Pipe P. S. I.	
	Std.	Max.	Std.	Max.	In. H ₂ O	P. S. I.
3	24	22	*	*	**	**
4	24	20	500	*	**	**
5	24	18	350	*	**	**
6	24	18	275	*	**	**
7	24	18	220	*	**	**
8	24	18	175	460	**	**
9	24	18	150	375	304	11.0
10	24	18	135	325	193	7.0
11	24	18	115	275	111	4.0
12	24	18	95	240	83	3.0
13	24	18	85	220	66	2.4
14	24	18	80	185	47	1.7
15	24	18	72	170	44	1.6
16	24	18	65	160	39	1.4
17	24	18	58	145	36	1.3
18	24	18	53	140	35	1.25
20	24	18	47	120	33	1.2
22	24	18	41	100	***	***
24	22	18	48	87	33	1.2
26	22	18	42	78	***	***
28	22	18	37	68	***	***
30	22	18	33	60	***	***
32	22	18	30	55	***	***
34	22	18	28	52	***	***
36	22	18	27	48	***	***
42	20	18	29	37	***	***
48	20	18	25	32	***	***

* Did not fail at 500 PSI *** Less than 1.2 PSI

** Did not fail at -14.7 PSI (-407 in. H₂O)

Calculation of wall thickness to Diameter ratio ($\frac{T}{D}$)

Example: 24 gauge steel = .0296 thickness
13" diameter duct

i.e.: $(\frac{T}{D}) = \frac{.0296}{13} = .0023$

Above reference, for lower charts, to predict bursting & collapsing pressures.

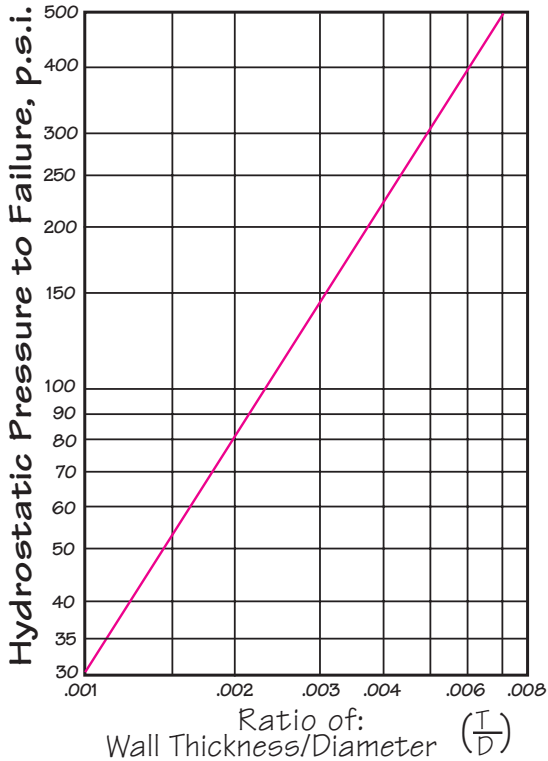
Gauge	Mean Thickness
18	.0516
20	.0396
22	.0336
24	.0296
26	.0217

1 PSI = 27.7 in. H₂O

1 in H₂O = .0361 PSI

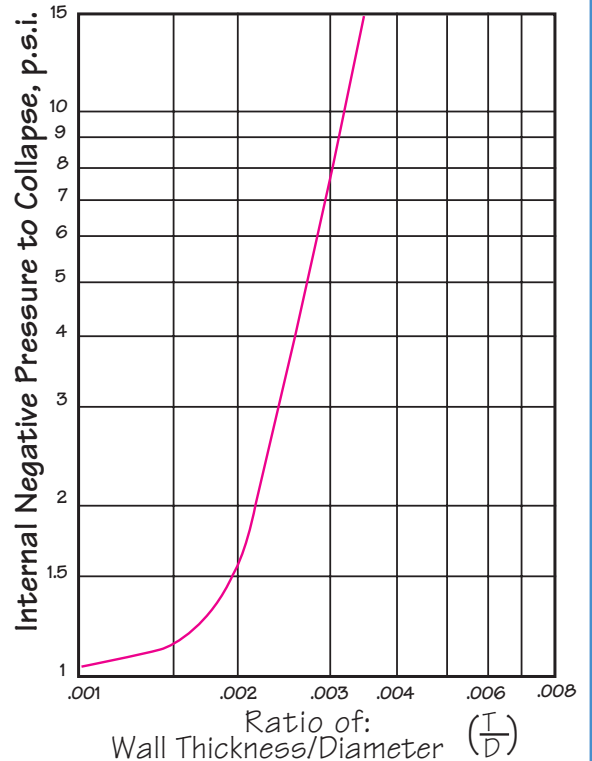
Properties are approx, based on both empirical and extrapolated data.

Chart to predict bursting pressures of steel Spiral pipe



Refer to upper right corner of page for more details.

Chart to predict collapsing pressures of steel Spiral pipe



Refer to upper right corner of page for more details.