



USEFUL TECHNICAL DATA

COUPLING THREAD DATA

SYSTEM NAME	ABBREVIATION	SEAL METHOD	COMPATIBILITY THREAD
Iron Pipe Thread	IPT	Generic Name for All Pipe Thread	
American Standard Taper Pipe Thread	NPT	Thread Fit	Male NPT - Female NPSM, NPSH Female NPT - Male NPT, NPTF
American Standard Dryseal Pipe Thread	NPTF	Thread Fit	Male NPTF - Female NPSM, NPTF Female NPTF - Male NPTF, NPT
American Standard Straight Pipe Thread	NPSM	Washer Seal	Male NPSM - Female NPSM Female NPSM - Male NPSM, NPT, NPTF
American Standard Straight Pipe Thread for Garden Hose and Nipples	NPSH	Mechanical Seal	Male NPSM - Female NPSM Female NPSM - Male NPT, NPTF
		Washer Seal	Male NPSH - Female NPSH Not compatible with other thread types
Garden Hose Thread	GHT (NPSH Type)	Washer Seal	Male GHT - Female GHT Not compatible with other thread types
Fire Hose	NPSH Type NST	Sealing method, thread pitch, diameters vary for local and municipal regulations. refer to factory	
American Petroleum Institute Standard	API	Thread Fit	Other API threads only

TABLE OF STANDARD THREADS

The following tables show the outside diameter of male part, and number of threads per inch of the various standards of hose threads used throughout of the United States.

SIZE IN INCHES	BASIC O. D. MALE PART	THREADS PER INCH	SIZE IN INCHES	BASIC O. D. MALE PART	THREADS PER INCH
National Standard Thread (U.S. Form Thread)					
3/4	1.375	8	3	3.6239	6
1	1.375	8	3 1/2	4.2439	6
1 1/2	1.99	9	4 1/2	5.7659	4
2 1/2	3.0686	7 1/2	-	-	-
Straight Iron Pipe Thread - Standard for Hose Couplings					
1/4	.534	18	1 1/2	1.8788	11 1/2
3/8	.671	18	2	2.3528	11 1/2
1/2	.8248	14	2 1/2	2.855	8
3/4	1.0353	14	3	3.470	8
1	1.2951	11 1/2	3 1/2	3.970	8
1 1/4	1.6399	11 1/2	4	4.470	8
New York Corporation Thread					
1 1/2	2.093	11	2 1/2	3	8
2	2.547	11	-	-	-
Pacific Coast Thread					
3/4	1.0625	11	1 1/2	2.100	11
1	1.3125	11 1/2	2	2.550	10
1 1/4	1.860	11	2 1/2	3.035	7 1/2
3/4" and 1" Standard Chemical Thread					
3/4	1.375	8	1	1.375	8
New York City Fire Department Thread					
1	1.66	8	3	3.630	8
1 1/2	2.10	8	3 1/2	4.070	8
2	2.53	8	4	4.610	8
2 1/2	3.03	8	4 1/2	5.800	4
Eastern Hose Thread					
3/4	1.0781	11	1 1/2	2.125	11
1	1.4219	11 1/2	2	2.6719	7 1/2
1 1/4	1.6875	11	-	-	-
Chicago Hose Thread or Crane Standard					
3/4	1.081	11 1/2	1 1/2	1.946	11 1/2
1	1.295	11 1/2	2	2.522	8
1 1/4	1.705	11 1/2	2 1/2	3.043	7
Chicago Fire Department Thread					
1 1/2	1.946	11 1/2	3 1/2	4.070	8
2 1/2	3.0156	7 1/2	-	-	-
Pittsburgh Gauge Hose Thread					
3/4	1.1875	11 1/2	-	-	-
Regular Garden Hose Thread					
1/2	1.0625	11 1/2	3/4	1.0625	11 1/2
5/8	1.0625	11 1/2	-	-	-



USEFUL TECHNICAL DATA

FLANGE SIZE - STANDARD PIPE FLANGES

125 - 150 lbs. American Standard Cast Iron, ASA B16.1 of Forged Steel, ASA B16.5

DESIGNATED PIPE SIZE IN INCHES	O.D. OF FLANGE IN INCHES	THICKNESS OF FLANGE IN INCHES	BOLT CIRLE IN INCHES	NO. OF BOLTS	SIZE OF BOLTS IN INCHES	APPROX. WT. - LBS FORGED STEEL SLIP-ON OR THREADED
1	4 1/4	*9/16	3 1/8	4	1/2	2
1 1/4	4 5/8	*5/8	3 1/2	4	1/2	3
1 1/2	5	*11/16	3 7/8	4	1/2	3
2	6	*3/4	4 3/4	4	5/8	5
2 1/2	7	**7/8	5 1/2	4	5/8	7
3	7 1/2	**3/4	6	4	5/8	8
3 1/2	8 1/2	*15/16	7	8	5/8	11
4	9	15/16	7 1/2	8	5/8	13
4 1/2	9 1/4	15/16	7 3/4	8	3/4	14
5	10	15/16	8 1/2	8	3/4	15
6	11	1	9 1/2	8	3/4	19
7	12 1/2	1 1/16	10 3/4	8	3/4	25
8	13 1/2	1 1/8	11 3/4	8	3/4	30
9	15	1 1/8	13 1/4	12	3/4	36
10	16	1 3/16	14 1/4	12	7/8	43
12	19	1 1/4	17	12	7/8	64
14	21	1 3/8	18 3/4	12	1	85
15	22 1/4	1 3/8	20	16	1	89
16	23 1/2	1 7/16	21 1/4	16	1	93
18	25	1 9/16	22 3/4	16	1 1/8	120
20	27 1/2	1 11/16	25	20	1 1/8	155
24	32	1 7/8	29 1/2	20	1 1/4	210

* CAST IRON ARE 1/8" THINNER. FIGURES ABOVE APPLY TO FORGED STEEL.
**CAST IRON ARE 3/16" THINNER. FIGURES ABOVE APPLY TO FORGED STEEL.

FLANGE SIZE - STANDARD PIPE FLANGES

300 lbs. American Standard

DESIGNATED PIPE SIZE IN INCHES	O.D. OF FLANGE IN INCHES	THICKNESS OF FLANGE IN INCHES	BOLT CIRLE IN INCHES	NO. OF BOLTS	SIZE OF BOLTS IN INCHES	APPROX. WT. - LBS (SLIP-ON OR THREADED)
1	4 7/8	11/16	3 1/2	4	5/8	3
1 1/4	5 1/4	3/4	3 7/8	4	5/8	4
1 1/2	6 1/8	13/16	4 1/2	4	3/4	6
2	6 1/2	7/8	5	8	5/8	7
2 1/2	7 1/2	1	5 7/8	8	3/4	10
3	8 1/4	1 1/8	6 5/8	8	3/4	13
3 1/2	9	1 3/16	7 1/4	8	3/4	17
4	10	1 1/4	7 7/8	8	3/4	22
4 1/2	10 1/2	1 5/16	8 1/2	8	3/4	25
5	11	1 3/8	9 1/4	8	3/4	28
6	12 1/2	1 7/16	10 5/8	12	3/4	39
7	14	1 1/2	11 7/8	12	7/8	48
8	15	1 5/8	13	12	7/8	58
9	16 1/4	1 3/4	14	12	1	69
10	17 1/2	1 7/8	15 1/4	16	1	81
12	20 1/2	2	17 3/4	16	1 1/8	115
14	23	2 1/8	20 1/4	20	1 1/8	164
15	24 1/2	2 3/16	21 1/2	20	1 1/4	194
16	25 1/2	2 1/4	22 1/2	20	1 1/4	220
18	28	2 3/8	24 3/4	24	1 1/4	280
20	30 1/2	2 1/2	27	24	1 1/4	325
24	36	2 3/4	32	24	1 1/2	490