













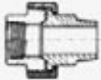



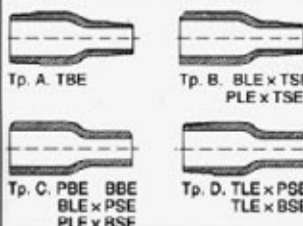













RACCORDI FILETTATI ANSI B16.11-BS3799 SERIE 2-3-6000
THREADED FORGED FITTINGS ANSI B16.11-BS3799 2-3-6000 LBS

TIPO / TYPE	CLASSE RATING	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Gomiti 90° <i>90° Elbows</i> 	2000	.080	.105	.225	.280	.460	.800	1.00	1.60	2.30	4.35	10.25
	3000	.140	.265	.365	.600	1.08	1.22	2.45	2.50	5.25	7.40	13.00
	6000	.310	.500	.685	1.25	1.65	2.75	3.22	6.25	10.00	17.00	14.50
Gomiti 90° MF <i>Street Elbows</i> 	3000	.131	.225	.325	.530	.940	1.30	1.47	2.30			
Gomiti 45° <i>45° Elbows</i> 	2000	.100	.110	.210	.240	.390	.700	.850	1.23	3.00	3.50	9.00
	3000	.130	.250	.360	.530	.780	1.02	1.70	2.35	5.40	6.00	10.50
	6000	.250	.350	.600	.950	1.22	1.35	2.55	5.60	8.00	15.50	13.00
Pezzi a T <i>Tees</i> 	2000	.115	.180	.290	.385	.550	.930	1.30	1.80	3.00	5.50	14.00
	3000	.205	.305	.490	.800	1.31	1.61	3.20	3.55	6.50	9.25	17.00
	6000	.410	.600	.935	1.59	2.14	3.39	4.50	10.00	13.00	19.50	18.00
Pezzi a Croce <i>Crosses</i> 	2000	.140	.190	.335	.420	.750	1.15	1.45	2.25	4.50	7.15	15.00
	3000	.220	.400	.630	.990	1.63	1.97	3.70	4.90	10.50	11.50	21.70
	6000	.450	.700	1.16	1.80	2.50	4.10	5.20	12.30	14.00	25.00	23.00
Manicotti <i>Couplings</i> 	3000	.056	.066	.140	.200	.390	.730	1.03	1.36	2.30	3.16	5.90
	6000	.105	.115	.370	.450	1.00	1.65	1.85	2.80	4.00	5.50	10.00
Mezzi manicotti <i>Half couplings</i> 	3000	.028	.033	.070	.110	.195	.365	.510	.660	1.15	1.57	2.90
	6000	.053	.058	.185	.225	.500	.830	.920	1.40	2.00	2.75	5.00
Cappellotti Tappi femmina <i>Caps</i> 	3000	.047	.058	.125	.210	.370	.600	.730	1.10	2.31	3.00	4.50
	6000	.160	.200	.290	.395	.700	1.10	1.35	2.10	3.50	4.80	7.50
Tappi Maschio / Male plugs    Testa quadra, esagonale, tonda <i>Square, hexagonal, round head</i>	TQ.	.016	.028	.048	.090	.170	.273	.400	.600	.890	1.25	3.10
	3000											
	TE.	.026	.047	.071	.130	.216	.410	.490	.770	1.61	1.94	4.50
Riduzioni esagonali <i>Hexagonal bushing</i> 	6000	.016	.021	.032	.063	.120	.209	.212	.450	.760	1.00	2.90
			.032	.047	.083	.150	.280	.314	.513	1.14	1.35	2.90
				.057	.098	.173	.330	.418	.620	1.27	1.65	3.10
Nippli esagonali <i>Hexagonal nipples</i> 	2000 STD-XS	.028	.047	.070	.110	.182	.300	.360	.500	.960	1.40	2.40
	3000 sch. 160	.030	.055	.080	.145	.236	.372	.452	.780	1.30	1.95	3.30
	6000 XXS			.120	.170	.303	.516	.626	.930	1.80	2.50	4.00
Bocchettoni <i>Unions</i> 	3000	.167	.211	.305	.490	.800	1.22	1.53	2.30	5.00	6.25	14.50
	6000	.300	.500	1.12	1.60	2.15	2.42	4.73	6.50	9.50	19.20	23.00
Bocchettoni MF <i>M/F unions</i> 	3000	.210	.274	.462	.610	.985	1.55	1.90	2.86			
Nippli tubo L = 100 mm. <i>Pipe nipples 100 mm. Long</i>    TBE TOE PBE TE x DE DE x DE	STD	.060	.080	.125	.165	.240	.330	.400	.530	.850	1.10	1.30
	XS	.075	.105	.155	.215	.305	.435	.530	.740	1.12	1.46	2.15
	Sch. 160			.190	.280	.415	.550	.720	1.06	1.46	2.06	3.20
	XXS			.250	.355	.540	.770	.950	1.31	2.00	2.65	4.00

TIPO / TYPE		CLASSE RATING	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Nippli ridotti / Swage nipples													
	sch. 40			.082	.112	.210	.341	.450	.920	1.29	2.20	2.60	
	sch. 80	.036	.064	.135	.180	.250	.440	.600	1.14	1.69	2.90	4.20	
	sch. 160			.155	.200	.340	.560	.820	1.60	2.25	4.07	6.25	
	XXS			.200	.258	.423	.780	1.10	2.20	3.05	5.25	7.80	
MEGALET THRD SW BW	3000	.065	.100	.125	.240	.379	.460	.660	.950	1.45	2.05	3.80	
	6000			.425	.690	1.05	1.45	2.30	2.90	4.25	7.07	10.40	
	3000	.070	.105	.132	.240	.370	.465	.650	1.02	1.50	2.39	3.80	
	6000			.307	.405	.700	.950	1.25	1.87	2.50	4.00	6.30	
	9000			.450	.720	1.10	1.50	2.25	2.90				
	STD XS	.045	.075	.095	.160	.225	.320	.420	.600	.950	1.30	3.00	
	sch. 160	.050	.078	.100	.175	.270	.390	.500	.850	1.30	1.90	3.50	
	XXS			.230	.330	.530	.750	1.00	1.40	2.10	3.40	4.75	
					.240	.340	.550	.800	1.10	1.50	2.25	3.65	5.00
	THRD SW BW ELBOMEGALET - LATROMEGALET	3000	.220	.190	.168	.370	.680	1.10	1.50	2.36			
		6000			.480	.900	1.55	2.35	3.11	4.85			
		3000	.220	.190	.168	.353	.580	1.00	1.35	2.10			
6000				.450	.820	1.50	2.40	3.20	5.00				
9000				.500	.900	1.60	2.60	3.50	5.25				
STD XS				.150	.320	.520	.680	1.10	1.00				
sch. 160				.390	.680	1.25	2.00	2.75	4.35				
XXS				.425	.840	1.45	2.35	3.15	4.85				
Nippli rinforzati / Reinforced nipples				.195	.340	.500	.650	.800	1.22				
sch. 40-80				.290	.390	.660	.880	1.15	1.65				
sch. 160				.340	.460	.730	1.07	1.35	1.90				
XXS				.340	.460	.730	1.07	1.35	1.90				
CAMPI DI ACCOPIAMENTO <i>Run-pipes ranges</i> MEGALET ELBOMEGALET LATROMEGALET	3000	1/2-1	1/2-3/4	3/4-1	1	1 1/4-1 1/2	1 1/2	2	2 1/2	3	4	5	
	SW	1 1/2-36	1-2	1 1/2-2 1/2	1 1/2-1 1/2	2-2 1/2	2 1/2-2 1/2	2 1/2-3	3	3 1/2	5	6	
	THRD		2 1/2-36	3-36	2-3 1/2	3-5	3-4	3 1/2-5	3 1/2-4	4	6	8	
	sch. 40-80				4-36	6-36	5-8	6-10	5-6	5-6	8-10	10+12	
	BW						10-36	12-36	8-12	8-12	12-18	14-20	
									14-36	14-36	20-36	22-36	
	6000			1-2	1-1 1/2	1 1/2-1 1/2	1 1/2	2	2 1/2	3	4	5	
	SW			2 1/2-24	1 1/2-3	2-3 1/2	2-2 1/2	2 1/2-3	3-4	4	5-6	6	
	100 XXS			4-24	4-24	4-24	3-5	4-6	5-8	5-6	8-12	8	
	BW						6-12	6-12	10-12	8-12	14-16	10-12	
							14-24	14-24	14-24	14-16	18-20	14-16	
										18-20	22-24	18-20	
										22-24		22-24	
	6000			1-1 1/4	1 1/2-1 1/2	1 1/2	2	2 1/2	3				
	THRD			1 1/2-3	2-3	2-2 1/2	2 1/2-3	3-4	4				
	9000			4-24	4-24	3-5	4-6	5-8	5-6				
	SW					6-24	8-12	10-12	8-12				
							14-24	14-24	14-24				
	ELBOMEGALET		All Types		3/4-36	1-36	1 1/2-36	"BEND DIAMETER TO BE INDICATED"					
	LATROMEGALET		3000		3/4-1	1-1 1/2	1-1 1/2-2 1/2	1 1/2-2 1/2	2-2 1/2	2 1/2-3			
	sch. 40				1-1 1/2-2 1/2	2-5	3-5	3-5	3-5	4-5			
	sch. 80				3-36	6-36	6-12	6-12	6-12	6-8			
							14-36	14-36	14-36	10-16			
										18-36			
6000				1-2	1-2	1 1/2-1 1/2	1 1/2	2	2 1/2				
9000				2 1/2-24	2 1/2-5	2-5	2-3	2 1/2-3	3-4				
sch. 160					6-24	6-24	4-10	4-8	5-8				
XXS							12-24	10-24	10-24				

RACCORDI A TASCA DA SALDARE ANSI B16.11-BS3799 SERIE 3-6-9000 SW FORGED FITTINGS ANSI B16.11-BS3799 3-6-9000 LBS

WEIGHTS TABLE

TIPO / TYPE	CLASSE RATING	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Gomiti 90° 90° Elbows 	3000	.082	.115	.235	.290	.480	.750	.950	1.85	2.50	4.30	9.70
	6000	.165	.300	.430	.660	1.14	1.60	2.70	2.95	3.75	7.50	13.00
	9000			.850	1.50	2.25	3.35	3.90	4.25			
Gomiti 45° 45° Elbows 	3000	.078	.100	.192	.250	.380	.580	.830	1.15	2.05	3.40	9.00
	6000	.120	.240	.300	.530	.660	1.07	1.90	2.35	3.00	6.00	10.30
	9000			.600	1.18	1.55	2.40	3.45	3.55			
Pezzi a T Tees 	3000	.118	.190	.310	.400	.580	.910	1.25	2.10	3.15	5.25	13.50
	6000	.210	.400	.555	.910	1.41	1.75	3.56	4.10	6.25	10.30	17.00
	9000			1.04	1.85	2.32	3.50	4.55	5.00			
Pezzi a Croce Crosses 	3000	.135	.205	.340	.470	.800	1.25	1.50	2.23	3.95	6.50	16.00
	6000	.260	.495	.670	1.06	1.79	2.15	4.45	5.40	7.75	12.80	21.00
	9000			1.29	2.25	2.85	4.30	5.60	5.90			
Manicotti Couplings 	3000	.050	.065	.105	.152	.260	.370	.420	.770	1.10	1.40	2.35
	6000	.070	.095	.148	.335	.370	.490	.680	1.24	1.61	2.80	3.50
	9000			.230	.410	.640	.800	.890	1.63			
Mezzi manicotti Half couplings 	3000	.058	.085	.180	.205	.320	.410	.560	.960	1.50	2.00	3.40
	6000	.075	.110	.205	.300	.470	.600	1.06	1.60	2.30	2.85	5.00
	9000			.260	.410	.650	.800	1.25	2.10			
Cappellotti Tappi femmina Caps 	3000	.035	.060	.135	.175	.295	.510	.650	.920	1.40	2.50	3.50
	6000	.075	.135	.180	.210	.460	.700	.885	1.20	2.00	3.25	6.60
	9000			.235	.280	.600	.880	1.10	1.60			
Bocchettoni Unions 	3000	.160	.225	.385	.520	.730	1.20	1.50	2.30	5.00	7.15	15.25
	6000	.350	.550	1.15	1.57	2.10	2.65	3.60	5.50	9.50	19.00	25.00
	9000			1.25	1.70	2.35	2.95	4.75	6.50			
Riduzioni per tasca M/F M/F Reducing Insert   	3000	.040	.050	.100	.120	.160	.350	.450	.700			
	6000			.250	.300	.350	.500	.650	1.00			
	9000			.350	.400	.480	.650	.800	1.25			

NOTE / Notes

WEIGHTS ARE IN KGS.

A) The weights are referred to straight pieces

B) The weight of reducing pieces:

- Threaded tees, crosses, couplings and hexagonal nipples
 - Socket welding tees, crosses and couplings
- are to be increased of 15% every reducing unit.

For example, on reducing tee 3000 NPT:

- 1 Unit (+15%) 1 x 3/4 = Weight 1,51 3/4 x 1/2 = Weight 0,92
- 2 Units (+30%) 1 x 1/2 = Weight 1,70 3/4 x 3/8 = Weight 1,04
- 3 Units (+45%) 1 x 3/8 = Weight 1,90 3/4 x 1/4 = Weight 1,16

C) The weights of bushings are already considered for reducing unit.

For example, on pieces 1":

- 1 Unit 1 x 3/4 = Weight 0,120
- 2 Units 1 x 1/2 = Weight 0,150
- 3 Units 1 x 3/8 = Weight 0,173

D) Table "Run Pipes Ranges" shows for all types of outlets Megalet the correct run pipe (between min. and max. ND), thus simplifying the request taking into consideration the quantities covered by the same run pipe range.

- E.G. No. 5 Megalet 1 x 3 3000 lbs SW
 - No. 10 Megalet 1 x 4 3000 lbs SW
 - No. 20 Megalet 1 x 5 3000 lbs SW
- } No. 35 Megalet 1 x 3-5 3000 lbs SW

TIPI SPECIALI - Special types



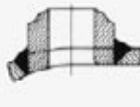
Pezzo a T 45°
45° Tee



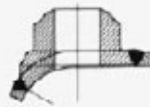
Gomitto a bocchettone
Union-Elbow



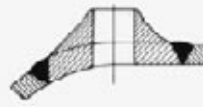
Pezzo a T a bocchettone
Union-Tee



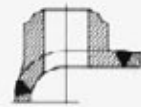
Insert Megalet Tp. A



Insert Megalet Tp. B



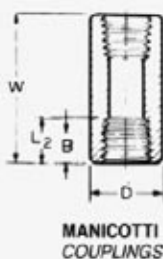
Insert Megalet Tp. C



Insert Megalet Tp. D

M.E.G.A.

Raccordi Filettati - Threaded Fittings

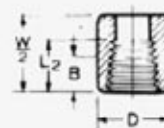


MANICOTTI
COUPLINGS

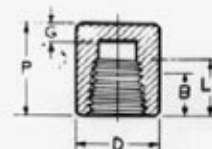
Nominal Pipe Size	End to End Couplings W		End to End Caps P		Outside Diameter D		End Wall Thickness G Min.		Length of Thread, Min.	
	3000 & 6000	3000	6000	3000	6000	3000	6000	B	L ₂	
1/8	32	19	16	22	5.0	6.5	6.5	6.5		
1/4	35	25	27	25	5.0	6.5	8.0	10.0		
3/8	38	25	27	32	5.0	6.5	9.0	10.5		
1/2	48	32	33	29	38	6.5	8.0	11.0	13.5	
3/4	51	37	38	35	44	6.5	8.0	12.5	14.0	
1	60	41	43	44	57	9.5	11.0	14.5	17.5	
1-1/4	67	44	46	57	64	9.5	11.0	17.0	18.0	
1-1/2	79	44	48	64	76	11.0	12.5	18.0	18.5	
2	86	48	51	76	92	12.5	16.0	19.0	19.0	
2-1/2	92	60	64	92	108	16.0	19.0	23.5	29.0	
3	108	66	68	108	127	19.0	22.0	26.0	30.5	
4	121	68	75	140	159	22.0	28.5	27.5	33.0	

Dimensions are in millimeters.

ESTRATTO DELLA NORMA ANSI B 16.11 - 1980



MEZZI MANICOTTI
HALF COUPLINGS



CAPPELLOTTI
CAPS

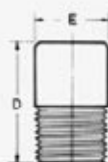
Tappi Maschi e Riduzioni - Plugs & Bushings



TAPPI TESTA QUADRA
SQUARE HEAD PLUGS



TAPPI TESTA ESAGONALE
HEXAGONAL HEAD PLUGS



TAPPI TESTA TONDA
ROUND HEAD PLUGS



RIDUZIONI ESAGONALI
HEXAGONAL HEAD BUSHINGS



RIDUZIONI AD ANELLO
FLUSH BUSHINGS

Nominal Pipe Size	Length (Minimum) A	Plugs Square Head		Plugs Round Head		Hex Plugs & Bushings		
		Height of Square (Minimum) B	Width Flats (Minimum) C	Nominal Diameter of Head E	Length (Minimum) D	Width Flats (Nominal) F	Hex Height (Min.)	
							Bushing G	Plug H
1/8	9.5	6	7.0	10	36	11.0		6
1/4	11.0	6	9.5	13	41	16.0	3	6
3/8	12.5	8	11.0	17	41	17.5	4	8
1/2	14.5	10	14.5	21	44	22.0	5	8
3/4	16.0	11	16.0	27	44	27.0	6	10
1	19.0	13	20.5	33	51	35.0	6	10
1-1/4	20.5	14	24.0	43	51	44.5	7	14
1-1/2	20.5	16	26.5	48	51	51.0	8	16
2	22.0	17	33.5	60	64	63.5	9	17
2-1/2	27.0	19	38.0	73	70	76.0	10	19
3	28.5	21	43.0	89	70	89.0	10	21
4	32.0	25	63.5	114	76	117.5	13	25

Dimensions are in millimeters.

ESTRATTO DELLA NORMA ANSI B 16.11 - 1980

AMERICAN NATIONAL STANDARD FORGED STEEL FITTINGS SOCKET WELDING AND THREADED ANSI B 16.11

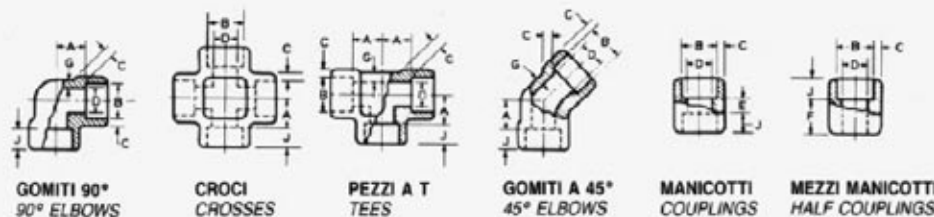
(1) This table is not intended to restrict the use of pipe of thinner or thicker wall with fittings. Pipe actually used may be thinner or thicker in nominal wall than shown in the table. When thinner pipe is used its strength may govern the rating. When thicker pipe is used (e.g., for mechanical strength) the strength of the fitting governs the rating.

Correlation of Fittings Class with Schedule Number or Wall Designation of Pipe for Calculation of Ratings

Pressure Class Designation of Fitting	Type of Fitting	Pipe ⁽¹⁾ Used for Rating Basis	
		Schedule No.	Wall Designation
2000	Threaded	80	XS
3000	Threaded	160	-
6000	Threaded	-	XXS
3000	Socket-Welding	80	XS
6000	Socket-Welding	160	-
9000	Socket-Welding	-	XXS

Raccordi a tasca

Socket Welding Fittings



Nom. Pipe Size	Socket Bore Dia. (2) B	Bore Diameter of Fitting (2) D			Socket Wall Thickness - C (1)						Body Wall Thickness - G			Depth Of Socket Min. - J	Center To Bottom of Socket - A						Laying Lengths			
		Pressure Class Designation			6000			9000			Pressure Class Designation				90° Elbows, Tees, and Crosses			45° Elbows			Couplings E	Half Couplings F		
		3000	6000	9000	Ave.	Min.	Ave.	Min.	Ave.	Min.	Min.	Min.	Min.		3000	6000	9000	3000	6000	9000				
1/8	10.90 10.85	7.6 6.1	4.8 3.2		3.20	3.20	3.95	3.45				2.40	3.15		10	12 10	12 10		9 7	9 7		8 6	17 15	
1/4	14.25 14.10	10.0 8.5	7.1 5.6		3.80	3.30	4.60	4.00				3.00	3.70		10	12 10	17 13		9 7	9 7		8 5	17 15	
3/8	17.80 17.55	13.3 11.8	9.9 8.4		4.00	3.90	5.05	4.35				3.20	4.00		10	15 12	17 14		9 6	13 10		9 3	18 16	
1/2	21.95 21.70	16.6 15.0	12.5 11.0	7.2 5.6	4.65	4.10	5.95	5.20	9.35	8.20	3.75	4.80	7.45		10	17 14	21 18	27	12 10	14 11	17	13 6	24 21	
3/4	27.30 27.05	21.7 20.2	16.3 14.8	11.8 10.3	4.90	4.25	6.95	6.05	9.80	8.55	3.90	5.55	7.80		13	21 18	24 21	30	14 11	16 13	21	13 6	25 22	
1	34.05 33.80	27.4 25.9	21.5 19.9	16.0 14.5	6.70	6.00	7.90	6.95	11.40	9.95	4.55	6.35	9.10		13	24 20	29 25	34	16 12	19 15	23	17 9	31 27	
1-1/4	42.80 42.55	35.8 34.3	30.2 28.7	23.5 22.0	6.05	5.30	7.00	6.05	12.15	10.60	4.85	6.35	9.70		13	29 25	34 30	37	19 15	23 19	24	17 9	32 28	
1-1/2	48.90 48.65	41.7 40.1	34.7 33.2	28.7 27.2	6.35	5.55	8.90	7.80	12.70	11.15	5.10	7.15	10.15		13	34 30	40 36	40	20 19	27 23	23	17 9	34 30	
2	61.35 61.10	53.5 51.7	43.6 42.1	38.9 37.4	6.95	6.05	10.90	9.50	13.85	12.15	5.55	8.75	11.05		16	40 36	43 39	56	27 22	31 27	31	23 15	43 36	
2-1/2	74.20 73.90	64.2 61.2			8.75	7.65					7.00				16	44 39			31 27			34	24 14	45 40
3	90.15 89.80	79.5 76.5			9.50	8.30					7.60				16	60 55			34 29			34	24 14	47 42
4	115.80 115.45	103.8 100.7			10.70	9.35					8.95				19	69 64			44 30			44	24 14	50 45

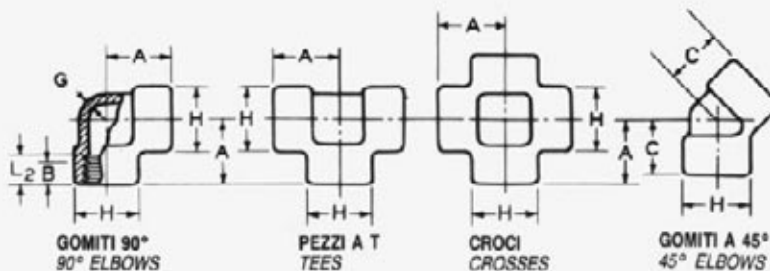
Dimensions are in millimeters

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- (1) Average of Socket Wall Thickness around periphery shall be no less than listed values. The minimum values are permitted in localized areas.
 (2) Upper and lower values for each size are the respective maximum and minimum dimensions.

Raccordi Filettati

Threaded Fittings



Nominal Pipe Size	Center to End Elbows, Tees, Cross A			Center to End 45° Elbow C			Outside Diameter of Band H			Minimum Wall Thickness G			Length of Thread, Min. (1)	
	2000	3000	6000	2000	3000	6000	2000	3000	6000	2000	3000	6000	B	L ₂
	1/8	21	21	25	17	17	19	22	22	25	3.0	3.0	6.5	6.5
1/4	21	25	29	17	19	22	22	25	33	3.0	3.5	6.5	8.0	10.0
3/8	25	29	33	19	22	25	25	33	38	3.0	3.5	7.0	9.0	10.5
1/2	29	33	38	22	25	29	33	38	46	3.0	4.0	8.0	11.0	13.5
3/4	33	38	44	25	29	33	38	46	56	3.0	4.5	8.5	12.5	14.0
1	38	44	51	29	33	35	46	56	62	3.5	5.0	10.0	14.5	17.5
1-1/4	44	51	60	33	35	43	56	62	75	4.0	5.5	10.5	17.0	18.0
1-1/2	51	60	64	35	43	44	62	75	84	4.0	5.5	11.0	18.0	18.5
2	60	64	83	43	45	52	75	84	102	4.5	7.0	12.0	19.0	19.0
2-1/2	76	83	95	52	52	64	92	102	121	5.5	7.5	15.5	23.5	29.0
3	86	95	106	64	64	79	110	121	146	6.0	9.0	16.5	26.0	30.5
4	106	114	114	79	79	79	146	152	152	6.5	11.0	18.5	27.5	33.0

Dimensions are in millimeters.

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- (1) Dimension B is minimum length of perfect thread. The length of useful thread (B plus threads with fully formed roots and flat crests) shall not be less than L₂ (effective length of external thread) required by American National Standard for Pipe Threads (ANSI B2.1).