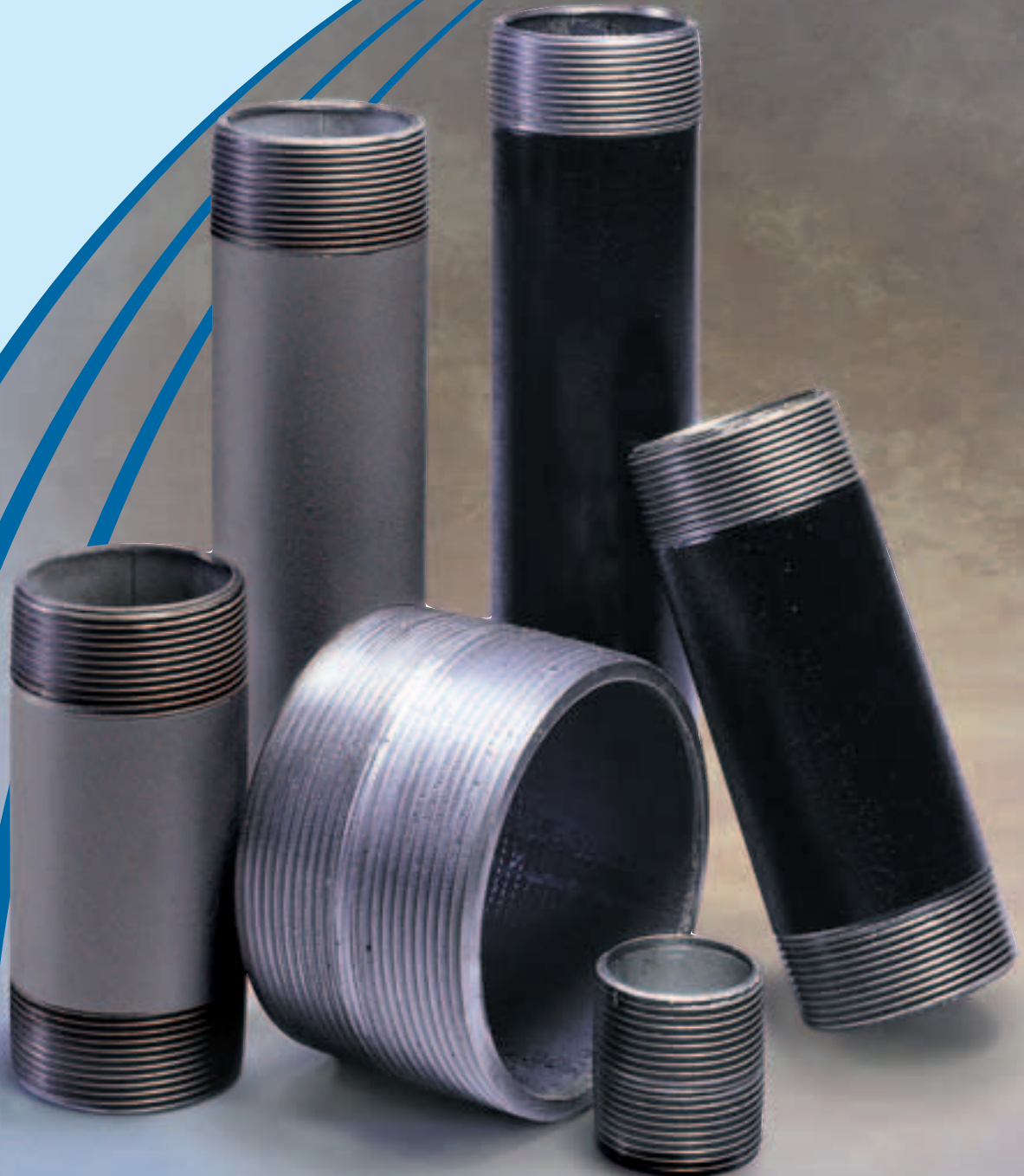


ANVIL®
INTERNATIONAL, INC.

Steel Pipe Nipples



www.anvilintl.com

SPECIFICATIONS

Materials

Manufactured in accordance with ASTM Standard Specification A733-Welded and seamless carbon steel and stainless steel pipe nipples. (A53 C/W and A106 SMLS).

Paragraph 1.1.1 welded carbon steel nipples and 1.1.2 seamless carbon steel nipples.

Finishes

Anvil steel nipples are available in black, electro galvanized or hot-dipped galvanized finishes. Please specify finish required when ordering.

Threads

Anvil pipe nipples are threaded on both ends with standard tapered pipe threads conforming to the American Standard for Pipe Threads A.N.S.I. B1.20.1.

Threads are right hand on each end unless otherwise specified. Left hand threads or plain ends or combinations are available.

Special Lengths

Anvil can supply special lengths, special threading and special finishes to order.

Length

Nipples with lengths up through 12" long have a length tolerance of $\pm 1/16"$. Nipples over 12" long have a tolerance of $\pm 1/8"$.

Identification

Where possible, each Anvil pipe nipple is identified with:

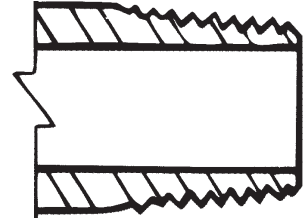
- The Anvil Trademark
- Seamless designation "SMLS" or welded C/W
- Pipe schedule STD, XS, SCH160 and XXS
- Material designation A106 B or A53 C/W

END FINISHES

Standard Finish

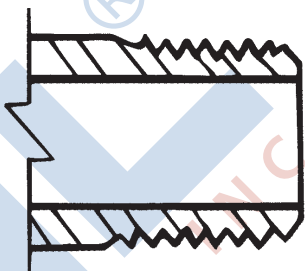
Tapered Pipe Thread (NPT)

Furnished unless special finish requested.



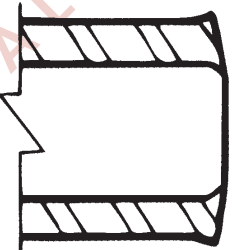
Special Finishes

Straight Pipe Thread



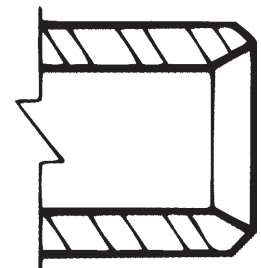
Roller Cut

Furnished when specified on order. (Not deburred.)



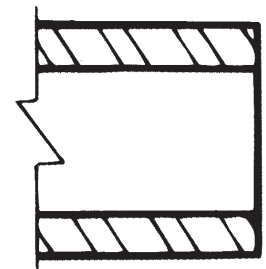
Reamed and Chamfered

Ends sq. cut and bevelled on O.D. at $35^\circ \pm 10^\circ$ to axis. Inside burrs removed.



Square Cut

Ends square cut to central axis. All burrs removed.



STANDARD NIPPLES *(By Length & Pipe Size)*

NOMINAL PIPE SIZE																			
(Inside Dia., Inches)	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	
BUTT²	1/2	3/4	3/4	3/4	1	1	1	1 1/4	2	2	2	2 1/4	2 1/4	2 1/2	2 1/2	-	-	-	
CLOSE (CL)	3/4	7/8	1	1 1/8	1 3/8	1 1/2	1 5/8	1 3/4	2	2 1/2	2 5/8	2 3/4	2 7/8	3	3 1/8	3 1/2	3 7/8	4 1/2	
SHOULDER (SHLDR)	1	1 1/4	1 1/4	1 1/4	1 1/2	1 3/4	2	2	-	-	-	3 1/2	3 1/2	4	4	-	-	-	
SHORT (SH)	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2 1/2	2 1/2	2 1/2	3	3	4	4	4 1/2	4 1/2	5	5	6	
LONG	2	2	2	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	
	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	-	-	-	-	-	-	-	-	-	
	3	3	3	3	3	3	3	3	3	3	3	-	-	-	-	-	-	-	
	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	-	-	-	-	-	-	-	
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	-	-	-	-	
	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	-	-	-
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	-
	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
EXTRA LONG	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
RIGHT AND LEFT³	-	-	4	4	4	4	4	4	4	4	4	-	-	-	-	-	-	-	

Note:

- Trade designations butt, close, shoulder, short, long and extra long are listed due to their common usage.
- Butt nipples are not recommended for pressure applications. The nipples are intended for use in pipe assemblies for structural purposes.
- Right and left nipples are regularly available only in 4 inch lengths and in weights of standard and extra strong, black standard and extra strong, galvanized.

STANDARD NIPPLES *(By Length & Pipe Size)*

STANDARD NIPPLES (Approximate weight per 100 pieces)

Size	Close	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"	7"	8"	9"	10"	11"	12"			
1/8"	1.0	2.7	3.7	4.8	5.9	6.9	8.0	9.1	10.1	11.2	12.3	14.0	15.6	17.0	18.8	20.4	22.0			
1/4"	2.3	4.4	6.4	8.5	10.6	12.6	14.5	16.4	18.3	20.1	22.0	24.6	27.2	29.8	32.4	35.0	37.6			
3/8"	3.3	6.0	8.6	11.1	13.7	16.2	18.8	21.4	24.0	26.5	29.1	33.0	37.0	41.0	45.0	49.0	53.0			
1/2"	5.0	7.7	11.0	14.6	17.8	21.2	24.5	27.9	31.2	34.6	37.9	45.0	52.0	59.0	66.0	73.0	80.0			
3/4"	8.7	11.5	14.2	18.6	23.6	28.8	34.0	39.2	44.4	49.6	54.8	62.8	70.6	78.4	86.2	94.0	102.0			
1"	14.8		19.8	27.8	34.6	41.8	47.6	54.8	60.4	67.8	73.4	86.4	100.0	113.6	127.2	140.6	154.0			
1 1/4"	20.2		27.8	37.0	48.0	56.8	65.5	74.4	83.2	92.0	100.8	120.8	139.2	158.4	177.6	196.8	216.0			
1 1/2"	29.2		33.6	45.6	55.2	66.4	78.0	89.2	100.4	112.0	123.2	142.5	165.0	187.5	210.0	232.5	255.0			
2"	43.4			56.8	69.6	83.2	96.8	110.4	124.4	138.8	164.0	192.5	215.0	247.5	280.0	312.5	345.0			
2 1/2"	80.0				105.0	116.0	141.0	164.8	191.6	219.0	235.0	275.0	322.0	385.0	417.0	465.0	505.0			
3"	101.0					126.0	147.0	180.0	205.0	223.0	272.0	316.9	378.8	412.9	478.0	548.0	601.0	670.8		
3 1/2"	127.0						213.0	250.0	271.0	331.0	360.0	440.0	495.0	567.0	645.0	700.0	790.0			
4"	200.0							252.5	385.0	347.0	375.0	430.0	472.0	588.8	670.8	740.0	830.0	910.0		
5"	275.0								350.0	400.0	500.0	600.0	658.0	710.0	830.0	940.0	1060.0	1160.0	1260.0	
6"	325.0									500.0	550.0	650.0	758.0	816.0	970.0	1130.0	1280.0	1440.0	1580.0	1720.0

EXTRA STRONG NIPPLES (Approximate weight per 100 pieces)

Size	Close	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"	7"	8"	9"	10"	11"	12"			
1/8"	1.4	3.3	4.4	5.6	6.9	8.1	9.3	10.6	11.8	13.1	14.4	16.8	19.2	21.6	24.0	26.4	28.8			
1/4"	3.0	5.4	7.7	10.0	12.2	14.4	16.6	18.8	21.1	23.3	25.5	29.8	33.8	38.0	42.2	46.4	50.6			
3/8"	4.9	8.1	10.9	14.8	17.0	20.0	23.6	26.4	29.1	32.2	35.3	41.2	47.4	53.6	59.6	65.8	72.0			
1/2"	7.9	11.1	15.1	19.2	24.2	28.6	32.1	37.8	42.2	46.6	51.0	60.4	69.6	78.8	88.8	97.2	106.4			
3/4"	12.0	16.2	19.7	25.3	30.4	36.5	42.6	49.7	54.8	60.9	67.0	80.0	92.9	104.0	116.0	128.0	140.0			
1"	21.0		29.8	39.5	47.0	56.2	65.4	74.6	83.0	93.6	102.0	122.0	141.0	158.0	176.0	194.0	212.0			
1 1/4"	32.8		37.6	51.8	63.6	75.2	86.8	96.4	110.0	121.6	133.2	158.0	184.0	210.0	236.0	262.0	288.0			
1 1/2"	41.8		51.4	63.2	81.6	96.0	110.5	124.8	139.2	153.6	168.0	197.5	227.5	257.5	287.5	317.5	347.5			
2"	67.8			85.8	99.2	120.4	141.6	162.0	184.0	205.2	226.4	268.0	311.0	354.0	397.0	440.0	483.0			
2 1/2"	112.0				147.0	165.2	197.4	229.8	267.4	306.6	329.0	385.0	450.0	539.0	583.8	651.0	707.0			
3"	141.4					176.4	205.8	252.9	287.0	324.0	380.8	434.0	529.2	576.8	658.0	767.2	841.4	938.0		
3 1/2"	177.8						298.2	350.0	379.4	463.4	504.0	616.0	693.0	793.8	903.0	980.0	1106.0			
4"	280.0							352.8	427.0	485.0	525.0	602.0	660.8	832.2	938.8	1036.0	1162.0	1274.0		
5"	385.0								490.0	560.0	700.0	840.0	910.0	1070.0	1240.0	1400.0	1570.0	1720.0	1880.0	
6"	550.0									775.0	850.0	950.0	1130.0	1225.0	1530.0	1760.0	2000.0	2240.0	2460.0	2680.0