Specifications

Unless otherwise specified welded nipples ASTM A 53 are furnished on orders for steel nipples in standard and extra strong sizes 1/8" – 8" NPS *(6 – 200 DN)*.

Welded steel nipples (A 53 Type F or Type E) are available in standard and extra strong sizes 1/8" – 8" NPS *(6 – 200 DN)*, right hand threads, black or galvanized.

Seamless nipples manufactured for the U.S. and International markets are *not* phosphate coated. Seamless nipples manufactured for Canada *are* phosphate coated.

Seamless steel pressure tube nipples (ASTM A 106 Grade B) are available in standard and extra strong sizes 1/8" – 8" NPS *(6 – 200 DN)* with right hand threads, black only.

Right and left steel nipples are available in standard and extra heavy weight sizes 1/8" – 4" NPS *(8 – 50 DN)*, in 4" *(102mm)* and 6" *(152mm)* lengths.

Nipples are available from stock in 1/8" – 8" NPS *(6 – 200 DN)* diameter, close to 12 NPS *(300 DN)* in length. Sizes 13" – 24" NPS *(325 – 600 DN)*. (Prices on application.)

Steel pipe nipples meet ASTM A733.

1/8" Schedule 40 and 80 galvanized nipples are all electroplated.

Identification

Where possible, each seamless pipe nipple is identified with the following:

- A trade mark
- Seamless designation "SMLS"
- Pipe schedule 40, 80, 160, XXS
- Material designation
- Heat number for traceability

Standards and Specifications

	Dimensions	Material	Thread	Federal/Other
PIPE NIPPLES				
Steel Pipe - Welded	ASTM A733	ASTM A53 Type F or Type E	ASME B1.20.1	WWN 351
Steel Pipe - Seamless (High Temp.)	ASTM A733	ASTM A106 Gr. B	ASME B1.20.1	WWN 351
Brass	ASTM B687	ASTM B43	ASME B1.20.1	WWN 351

Seamless Pipe Nipples

Black & Galvanized, Std. Sch. 40, XH Sch. 80, Sch. 160, XXH

FIG. 320: Standard Black Sch. 40
FIG. 325: Extra Heavy Black Sch. 80
FIG. 326: 160 Black Sch. 160
FIG. 327: XXH Black
FIG. 330: Standard Galv. Sch. 40
FIG. 335: Extra Heavy Galv. Sch. 80
FIG. 333: 160 Galv. Sch. 160
FIG. 329: XXH Galvanized

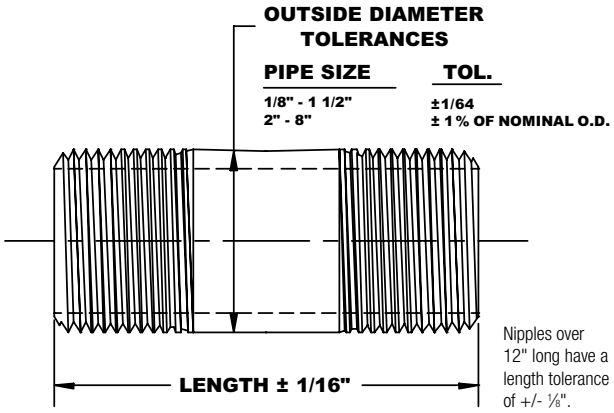
Specifications

Dimensions: ASTM A733 (See table below for standard sizes)

Threads: NPT per ASME B1.20.1

Material: ASTM A106 Grade B Seamless Pipe
ASTM A333 Grade 6 Seamless Pipe (For Canada only)

Finish: ASTM A106 Nipples Black or Hot Dip Galvanized
ASTM A333 Nipples Phosphate Coated or Zinc Electroplated



Pipe Size	Pipe O.D.	Length Close	Pipe Nipple Lengths																
in	in	in																	
⅛	0.405	¾	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
¼	0.540	⅞	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
⅜	0.675	1	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
½	0.840	1⅛	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
¾	1.050	1⅜	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
1	1.315	1½		2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
1¼	1.660	1⅝		2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
1½	1.900	1¾		2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
2	2.375	2			2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
2½	2.875	2½				3	3½	4	4½	5	5½	6	7	8	9	10	11	12
3	3.500	2⅝				3	3½	4	4½	5	5½	6	7	8	9	10	11	12
4	4.500	2⅞						4	4½	5	5½	6	7	8	9	10	11	12
5	5.563	3							4½	5	5½	6	7	8	9	10	11	12
6	6.625	3⅛							4½	5	5½	6	7	8	9	10	11	12

Note: Other lengths available upon request.
8" Pipe Size available as POA - contact your Anvil Representative for details.

Welded Pipe Nipples

Black & Galvanized, Std. Sch. 40, XH Sch. 80

FIG. 339: Standard Black Schedule 40

FIG. 338: Extra Heavy Black Schedule 80

FIG. 343: Standard Galv. Schedule 40

FIG. 342: Extra Heavy Galv. Schedule 80

Specifications

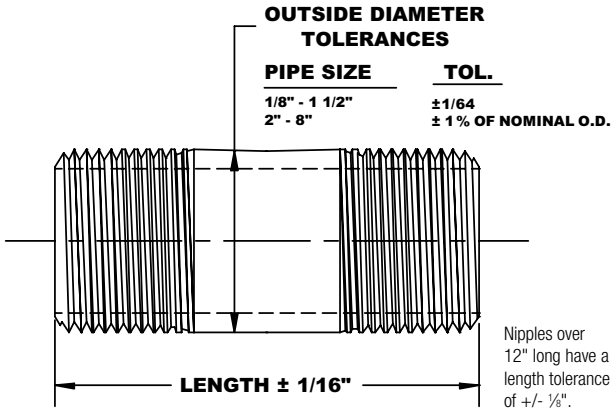
Dimensions: ASTM A733 (See table below for standard sizes)

Threads: NPT per ASME B1.20.1

Material: ASTM A53 Welded Steel Pipe

Finish: Black, Hot Dip Galvanized, or Zinc Electroplated

Standard and Extra Heavy Right and Left Nipples available in 1/8" - 4" diameter and 4" or 6" lengths. See Special Design Pipe Nipples on page 80 for more information.



Pipe Size	Pipe O.D.	Length Close	Pipe Nipple Lengths															
in	in	in																
1/8	0.405	3/4	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
1/4	0.540	7/8	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
3/8	0.675	1	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
½	0.840	1⅛	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
¾	1.050	1⅜	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
1	1.315	1½		2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
1¼	1.660	1⅝		2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
1½	1.900	1¾		2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
2	2.375	2			2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
2½	2.875	2½				3	3½	4	4½	5	5½	6	7	8	9	10	11	12
3	3.500	2⅝				3	3½	4	4½	5	5½	6	7	8	9	10	11	12
3½	4.000	2¾					3½	4	4½	5	5½	6	7	8	9	10	11	12
4	4.500	2⅞						4	4½	5	5½	6	7	8	9	10	11	12
5	5.563	3							4½	5	5½	6	7	8	9	10	11	12
6	6.625	3⅛							4½	5	5½	6	7	8	9	10	11	12

Note: Other lengths available upon request.

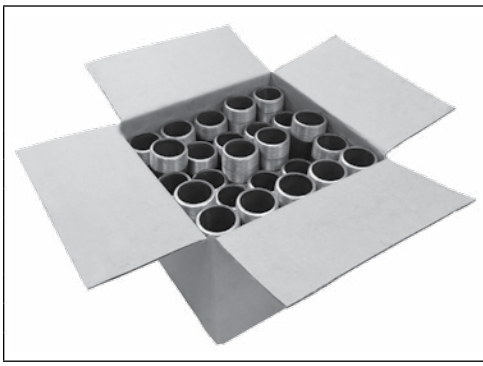
8" Pipe Size available as POA - contact your Anvil Representative for details.

Steel Pipe Nipples

Welded – Ready Cut Pipe Standard — Schedule 40

"A" ASSORTMENTS

Mixed Cartons (Black — Figure 339 & Galvanized — Figure 343)



Nom. Pipe Size	Close	1½"	2"	2½"	3"	3½"	4"	4½"	5"	5½"	6"	No. of Pieces	Approx. Wt. Lbs.
½	4	3	3	3	2	2	2	1	2	1	2	25	5.00
½	20	10	15	10	10	5	10	5	5	5	5	100	18.00
¾	4	3	3	3	2	2	2	1	2	1	2	25	7.00
¾	20	10	15	10	10	5	10	5	5	5	5	100	24.00
1	15	-	15	10	12	5	5	4	3	3	3	75	24.00
1	5	-	5	3	2	2	2	1	2	1	2	25	10.00
1¼	5	-	5	3	2	2	2	1	2	1	2	25	12.00
1½	5	-	5	3	2	2	2	1	2	1	2	25	15.00
2	6	-	-	3	3	2	3	1	3	1	3	25	22.00

All items ship in bulk quantities.

"66" PACKS OR ASSORTED 6 CARTONS

Black — Figure 339 & Galvanized — Figure 343

Nom. Pipe Size	Close	1½"	2"	2½"	3"	3½"	4"	4½"	5"	5½"	6"	No. of Pieces	Approx. Wt. Lbs.
⅛	6	6	6	6	6	6	6	6	6	6	6	66	6.00
¼	6	6	6	6	6	6	6	6	6	6	6	66	9.00
⅜	6	6	6	6	6	6	6	6	6	6	6	66	12.00
½	6	6	6	6	6	6	6	6	6	6	6	66	14.00
¾	6	6	6	6	6	6	6	6	6	6	6	66	19.00
1	6	-	6	6	6	6	6	6	6	6	6	60	26.00
1¼	6	-	6	6	6	6	6	6	6	6	6	60	33.00
1½	6	-	6	6	6	6	6	6	6	6	6	60	41.00
2	6	-	-	6	6	6	6	6	6	6	6	54	53.00

All items ship in bulk quantities.

HANDY PACK ASSORTMENTS

Mixed Cartons (Black — Figure 339 & Galvanized — Figure 343)

Nom. Pipe Size	Close	1½"	2"	2½"	3"	3½"	4"	4½"	5"	5½"	6"	No. of Pieces	Approx. Wt. Lbs.
⅛	6	6	6	6	6	6	6	6	6	6	6	66	6.00
¼	6	6	6	6	6	6	6	6	6	6	6	66	9.00
⅜	6	6	6	6	6	6	6	6	6	6	6	66	12.00
½	6	6	6	6	6	6	6	6	6	6	6	66	14.00
¾	6	6	6	6	6	6	6	6	6	6	6	66	19.00
1	6	-	6	6	6	6	6	6	6	6	6	60	26.00
1¼	3	-	-	3	3	3	3	3	3	3	3	27	19.00
1½	3	-	-	3	3	3	3	3	3	3	3	27	23.00
2	3	-	-	3	3	3	3	3	3	3	3	27	30.00

All items ship in bulk quantities.

Steel Pipe Nipples

Welded – Ready Cut Pipe Standard — Schedule 40, XH Sch. 80

SINGLE RUN PACKS

Black — Figure 339 & Galvanized — Figure 343

Nom. Pipe Size	Close	1½"	2"	2½"	3"	3½"	4"	4½"	5"	5½"	6"	No. of Pieces	Approx. Wt. Lbs.
⅛	1	1	1	1	1	1	1	1	1	1	1	11	1.00
¼	1	1	1	1	1	1	1	1	1	1	1	11	1.50
⅜	1	1	1	1	1	1	1	1	1	1	1	11	2.00
½	1	1	1	1	1	1	1	1	1	1	1	11	2.50
¾	1	1	1	1	1	1	1	1	1	1	1	11	3.50
1	1	-	1	1	1	1	1	1	1	1	1	10	5.00
1¼	1	-	1	1	1	1	1	1	1	1	1	10	7.00
1½	1	-	1	1	1	1	1	1	1	1	1	10	8.00
2	1	-	-	1	1	1	1	1	1	1	1	9	10.00
2½	1	-	-	-	1	1	1	1	1	1	1	8	13.30
3	1	-	-	-	1	1	1	1	1	1	1	8	15.80

All items ship in bulk quantities.

SINGLE RUN PACKS

Black Only Extra Heavy — Figure 338

Nom. Pipe Size	Close	1½"	2"	2½"	3"	3½"	4"	4½"	5"	5½"	6"	No. of Pieces	Approx. Wt. Lbs.
½	1	1	1	1	1	1	1	1	1	1	1	11	3.20
¾	1	1	1	1	1	1	1	1	1	1	1	11	4.30
1	1	-	1	1	1	1	1	1	1	1	1	10	6.10
1¼	1	-	1	1	1	1	1	1	1	1	1	10	8.40
1½	1	-	1	1	1	1	1	1	1	1	1	10	10.30
2	1	-	-	1	1	1	1	1	1	1	1	9	13.90

All items ship in bulk quantities.

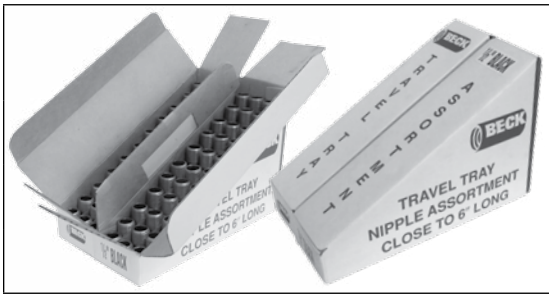
READY CUT PIPE

Black Extra Long— Figure 339 & Galvanized — Figure 343

Nom. Pipe Size	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"
⅛	5	5	5	5	5	5	5	5	5	5
¼	5	5	5	5	5	5	5	5	5	5
⅜	5	5	5	5	5	5	5	5	5	5
½	5	5	5	5	5	5	5	5	5	5
¾	5	5	5	5	5	5	5	5	5	5
1	3	3	3	3	3	3	3	3	3	3
1¼	3	3	3	3	3	3	3	3	3	3
1½	3	3	3	3	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2

TRAVEL TRAYS

Black — Figure 339 & Galvanized — Figure 343



Nom. Pipe Size	Close	1½"	2"	2½"	3"	3½"	4"	4½"	5"	5½"	6"	No. of Pieces	Approx. Wt. Lbs.
½	6	6	6	6	6	6	6	6	6	6	6	66	15.00
¾	6	6	6	6	6	6	6	6	6	6	6	66	20.00
1	5	-	5	5	5	5	5	5	5	5	5	50	22.00

All items ship in bulk quantities.

General Assembly of Threaded Fittings

1) Inspect both male and female components prior to assembly.
   - Threads should be free from mechanical damage, dirt, chips and excess cutting oil.
   - Clean or replace components as necessary.

2) Application of thread sealant
   - Use a thread sealant that is fast drying, sets-up to a semi hard condition and is vibration resistant. Alternately, an anaerobic sealant may be utilized.
   - Thoroughly mix the thread sealant prior to application.
   - Apply a thick even coat to the male threads only. Best application is achieved with a brush stiff enough to force sealant down to the root of the threads.

3) Joint Makeup
   - For sizes up to and including 2" pipe, wrench tight makeup is considered three full turns past handtight. Handtight engagement for 1/2" through 2" thread varies from 4 1/2 turns to 5 turns.
   - For 2 1/2" through 4" sizes, wrench tight makeup is considered two full turns past handtight. Handtight engagement for 2 1/2" through 4" thread varies from 5 1/2 turns to 6 3/4 turns.

Conditions and Terms of Sale

1. **CONTROLLING PROVISIONS:** These terms and conditions shall control with respect to any purchase order or sale of Seller's products. No waiver, alteration or modification of these terms and conditions whether on Buyer's purchase order or otherwise shall be valid unless the waiver, alteration or modification is specifically accepted in writing and signed by an authorized representative of Seller.

2. **DELIVERY:** Seller will make every effort to complete delivery of products as indicated on Seller's acceptance of an order, but Seller assumes no responsibility or liability, and will accept no back-charge, for loss or damage due to delay or inability to deliver caused by acts of God, war, labor difficulties, accident, delays of carriers, by contractors or suppliers, inability to obtain materials, shortages of fuel and energy, or any other causes of any kind whatever beyond the control of Seller. Seller may terminate any contract of sale of its products without liability of any nature, by written notice to Buyer, in the event that the delay in delivery or performance resulting from any of the aforesaid causes shall continue for a period of sixty (60) days. Under no circumstances shall Seller be liable for any special or consequential damages or for loss, damage, or expense (whether or not based on negligence) directly or indirectly arising from delays or failure to give notice of delay.

3. **WARRANTY:** Seller warrants for one year from the date of shipment Seller's manufactured products to the extent that Seller will replace those having defects in materials or workmanship when used for the purpose and in the manner which Seller recommends. If Seller's examination shall disclose to its satisfaction that the products are defective, and an adjustment is required, the amount of such adjustment shall not exceed the net sales price of the defective products only and no allowance will be made for labor or expense of repairing or replacing defective products or workmanship or damage resulting from the same. Seller warrants the products which it sells of other manufacturers to the extent of the warranties of their respective makers. Where engineering design or fabrication work is supplied, buyer's acceptance of Seller's design or of delivery of work shall relieve Seller of all further obligation, other than as expressed in Seller's product warranty. THIS IS SELLER'S SOLE WARRANTY. SELLER MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED: and ALL IMPLIED WARRANTIES OF MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED SELLER'S AFORE STATED OBLIGATION ARE HEREBY DISCLAIMED BY SELLER and EXCLUDED FROM THIS WARRANTY. Seller neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of its engineering designs or products. This warranty shall not apply to any products or parts of products which (a) have been repaired or altered outside of Seller's factory, in any manner; or (b) have been subjected to misuse, negligence or accidents; or (c) have been used in a manner contrary to Seller's instructions or recommendations. Seller shall not be responsible for design errors due to inaccurate or incomplete information supplied by Buyer or its representatives.

4. **SELLER'S LIABILITY:** Seller will not be liable for any loss, damage, cost of repairs, incidental or consequential damages of any kind, whether based upon warranty (except for the obligation accepted by Seller under "Warranty" above), contract or negligence arising in connection with the design, manufacture, sale, use or repair of the products or of the engineering designs supplied to Buyer.

5. **RETURNS:** Seller cannot accept return of any products unless its written permission has been first obtained, in which case same will be credited subject to the following: (a) All material returned must, on its arrival at Seller's plant, be found to be in first-class condition; if not, cost of putting in saleable condition will be deducted from credit memoranda. (b) A handling charge deduction of twenty percent (20%) will be made from all credit memoranda issued for material returned. (c) Transportation charges, if not prepaid, will be deducted from credit memoranda.

6. **SHIPMENTS:** All products sent out will be carefully examined, counted and packed. The cost of any special packing or special handling caused by Buyer's requirements or requests shall be added to the amount of the order. No claim for shortages will be allowed unless made in writing within ten (10) days of receipt of a shipment. Claims for products damaged or lost in transit should be made on the carrier, as Seller's responsibility ceases, and title passes, on delivery to the carrier.

7. **SPECIAL PRODUCTS:** Orders covering special or non-standard products are not subject to cancellation except on such terms as Seller many specify on application.

8. **PRICES and DESIGNS:** Prices and designs are subject to change without notice. All prices are F.O.B. Point of Shipment, unless otherwise stated.

9. **TAXES:** The amount of any sales, excise or other taxes, if any, applicable to the products covered by this order, shall be added to the purchase price and shall be paid by Buyer unless Buyer provides Seller with an exemption certificate acceptable to the taxing authorities.

10. **NUCLEAR PLANTS:** Where the products, engineering design or fabrication is for nuclear plant applications, Buyer agrees: (a) to take all necessary steps to add Seller as an insured under the American Nuclear Insurers' (ANI) pool and under the Mutual Atomic Energy Reinsurance Pool (MAERP) for property damage and liability insurance and if necessary steps could have been taken, but are not taken, Buyer shall hold Seller harmless against all such losses which could have been thus covered, (b) to hold Seller harmless with respect to any personal injury (or death), property damage or other loss in a nuclear incident which is caused directly or indirectly by defective design, material, or workmanship furnished by Seller and which is covered by insurance maintained by Buyer (or which could be so covered but with respect to which Buyer has elected to self-insure), and further agrees to waive subrogation by its carriers of such insurance against Seller, and (c) as to nuclear hazards for which Buyer cannot obtain insurance coverage, the liability of Seller for any personal injury (or death), property damage or other loss directly caused by defective design, material, or workmanship furnished by Seller shall not exceed the value of the material furnished by Seller at the time of the loss occurrence.

11. **MINIMUM INVOICE:** $25.00 plus transportation.

12. **TERMS:** Cash, net 30 days unless otherwise specified.

Figure Number Index

FIGURE NO.	PAGE NO.
100	123
200	124
206	125
211	126
300	127
301	128
320	76
320SD	80
325	76
325SD	80
326	76
326SD	80
327	76
327SD	80
329	76
329SD	80
330	76
330SD	80
333	76
333SD	80
335	76
335SD	80
336	82
337	83
338	77
338SD	80
339	77
339SD	80
341SD	80
342	77
342SD	80
343	77
343SD	80
344SD	80
345SD	80
346	84
347	84
348	85
349	86
350	86
351	36
352	38
356, 356A, 356R	37
358	39
359	39-43
360	44
361	44
362SD	82
363SD	82
366	45
367	46
368	47
370	51
371	36
379	86
380	50
381	50
383	34, 48-49
385	34, 49
387	50
388	50
389	50
390	31, 50
400	128
421	51
424	51
425	52
426	52
459	32
463	32
551	32
554	32
602	129
607	130
701, 701R	54
702, 702A	54
703	54
705	55
706	55
707	55
708	55
718	57
719	57
722	57
723	57
726	58
727	58
729	58
730	58
731	59
734	59
735	59
736	59
744	60
752	60
753	60
754	60
801	62
802	62
803	63
804	63
805	64
811	64
812	65
821	66
823	66
825	67
826	67
832	33
1011	68
1016	69
1018	68
1021	70
1025	70
1030	70
1101, 1101R	17
1102	18
1103	18
1104	19
1105	19
1105R	20-22
1106	23
1107	23
1108	23
1119	24
1121	24
1124	24
1125	25
1133	26
1134	26
1138	26
1160	27
1161, 1161R	27
1162	28
1163	31
1164, 1164R	28-29
1165	29
1166	30
1167	30
1170	28
1190	26
1502	131
1538	71
2101	88
2102	88
2103	89
2104	89
2111	90
2112	90
2113	91
2114	90
2115	91
2116	91
2117	92
2118	93
2119	92
2120	93
2121	107
2122	107
2125	111
2126	111
2127	112
2128	112
2131	94
2132	94
2133	95
2134	94
2135	95
2136	95
2137	96
2138	97
2139	108
2140	108
2141	96
2142	107
2143	97
2150	98
2151	98
2152	99
2153	99
2154	100
2155	101
2156	101
2157	102
2158	100
2159	109-110
2170	103
2171	103
2172	104
2173	104
2174	105
2175	105
2176	106
2177	106
2178	104
2179	109-110
J-3300	31
Pumping Tee	151