

July 23, 2021

**Attention:** Tanya Francis  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO, ON M9W 6N9

The design submission, tracking number 2021-03824, originally received on July 13, 2021 was surveyed and accepted for registration as follows:

|                                                         |                                   |
|---------------------------------------------------------|-----------------------------------|
| <b>CRN :</b> 0A07470.52                                 | <b>Accepted on:</b> July 23, 2021 |
| <b>Reg Type:</b> RENEWAL                                | <b>Expiry Date:</b> June 17, 2031 |
| <b>Drawing No. :</b> SWAGES / BULL PLUGS / PIPE NIPPLES |                                   |
| <b>Fitting type:</b> PIPE FITTING                       |                                   |
| Design registered in the name of : KEDDCO MFG LTD       |                                   |

**The registration is conditional on your compliance with the following notes:**

*As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is other engineering analysis.*

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.*
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.*
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.*
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.*

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3388 or fax (780) 437-7787 or e-mail Liu@absa.ca.

Sincerely,



LIU, XING, P. Eng.  
DOP Cert. No. D00008861

**STATUTORY DECLARATION**  
**Registration of Fittings**  
Single or Multiple Fitting Designs within one Fitting Category

I, LISA BIDTNES, QA MANAGER  
(name of applicant) (position title) (must be in a position of authority)  
of KEDDCO MFG LTD  
(name of manufacturer)  
located at 645 KEDDCO ST, SARNIA, ON N7T 7H5 (LIST ADD'L LOCATIONS)  
(plant address)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

K (K)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act  
(select only one)

- ☒ comply with the requirements of MSS-SP-95, ASTM A733, B1.20.1 which specifies the dimensions,  
(title of recognized North American Standard)  
materials of construction, pressure/temperature ratings and identification marking of the fittings, or
- ☐ are not covered by the provisions of a recognized North American standard and are therefore  
manufactured to comply with \_\_\_\_\_ as supported by the  
(title of code of construction or other applicable document)  
attached data which identifies the dimensions, materials of construction, pressure/temperature ratings  
and the basis for such ratings, and the identification marking of the fittings.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified as described in the below Table as being suitable for the manufacturing of these fittings to the stated standard, regulation, code, guideline or other applicable document. The fittings covered by the declaration for which I seek registration are as provided in the Supplementary Sheet(s) attached.

**Quality Program Verification and Manufacturing Sites**

A copy of the Quality Certificate from each manufacturing site must be included

| Item # | Product Description, Model or Series | Quality Program | Scope of Certification            | Expiry Date | Verifying Organization | Location(s) Plant Name and address                      |
|--------|--------------------------------------|-----------------|-----------------------------------|-------------|------------------------|---------------------------------------------------------|
| 1.     | SWAGES AND BULL PLUGS                | ISO 9001:2015   | SWAGES, BULL PLUGS & PIPE NIPPLES | 08-23-23    | QMI SAI GLOBAL         | KEDDCO MFG<br>645 KEDDCO ST<br>SARNIA, ON               |
| 2.     | SWAGES ABD BULL PLUGS                | ISO 9001:2015   | SWAGES, BULL PLUGS & PIPE NIPPLES | 08-23-23    | QMI SAI GLOBAL         | KEDDCO MFG<br>3911-76 <sup>TH</sup> AVE<br>EDMONTON, AB |

In support of this application, the following information, calculations and/or test data are attached:

CATALOG PAGES 3-6 (SWAGES & BULL PLUGS), CATALOG PAGES PIPE NIPPLES

CALCULATIONS ATTACHED

[Signature]  
(Signature of the Declarer)

May 28 2021  
(Date)

DECLARED before me at Sarwa in the Province of Ontario  
(city) (province, territory, or state)

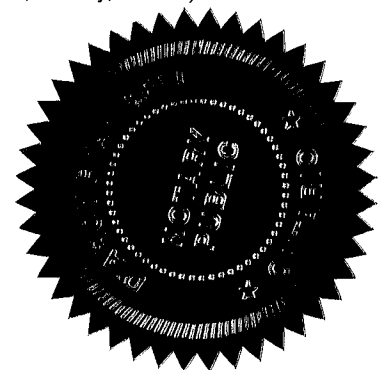
this 24 day of May, 2021  
(Month) (Year)

(print) D'Arcy Ryan Bell  
(a Commissioner of Oaths or Notary Public)

(sign) [Signature]  
(a Commissioner of Oaths or Notary Public)

NA  
(expiry date (mm/dd/yy))

Commissioner of Oaths / Notary Public in and for: Ontario  
(province, territory, or state)



## For ABSA Office Use Only:

NOTES: \_\_\_\_\_

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for registration in Category \_\_\_\_\_

CRN: \_\_\_\_\_

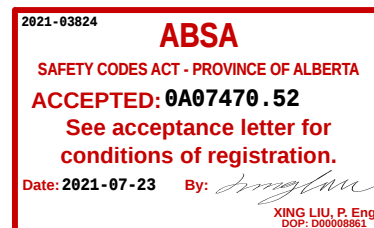
Registered Date: \_\_\_\_\_

Expiry Date: \_\_\_\_\_

Signature: \_\_\_\_\_

(Signature of the Administrator/SCO)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline



This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

Table 1\*\* Scope of Fitting Designs

| Item # | Primary Pressure Bearing / Retaining Component | Material of Construction | Port Connections and Size Range | MDMT | Rated Pressure         |                        | Pressure Class(es) / Schedule(s) | Design Code(s) of Construction | Reference Catalogue (pages) or Drawing(s) |
|--------|------------------------------------------------|--------------------------|---------------------------------|------|------------------------|------------------------|----------------------------------|--------------------------------|-------------------------------------------|
|        |                                                |                          |                                 |      | At Ambient Temperature | At Maximum Temperature |                                  |                                |                                           |
|        |                                                |                          |                                 |      |                        |                        |                                  |                                |                                           |
|        |                                                |                          |                                 |      |                        |                        |                                  |                                |                                           |
|        |                                                |                          |                                 |      |                        |                        |                                  |                                |                                           |

Table 2 Additional Scope Information

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| List/Attach Additional Detail and References (Product Configurations, Options, Illustrations, etc.) |
| Example:                                                                                            |
| Series X Options                                                                                    |
|                                                                                                     |

\*\* For additional alternatives of Table 1, refer to Form AB-41a, Guide for Completing Form AB-41

## MANUFACTURING SPECIFICATION

KeddcO manufacturers swage nipples and bull plugs in accordance with A234, A420, A403 and MSS-SP-95, from A-106 Grade B seamless pipe and A-1000 series, low to medium carbon, fine grain, cold drawn bar stock and heat treated to these specifications. The chemical and physical properties of the raw material fall within the range listed below.

## TRACEABILITY

All raw material purchased by KeddcO is fully traceable to the mill source. A heat number appears on all KeddcO products made since the institution of this program. As a result, mill test reports are available at any time on products.

## PRESSURE RATINGS

Due to the wide variation in service conditions, temperature, vibrations, etc., KeddcO can make no recommendations as to allowable working pressures of swage nipples and bull plugs. There are a number of working pressure formulas from which the end user may choose to determine the required wall thickness of the piping system. It is our responsibility only to furnish a fitting with end dimensions equal to those of the pipe size and schedule ordered.

## MATERIAL CERTIFICATION

KeddcO certifies that the material used to manufacture line pipe sizes of swage nipples and bull plugs has been processed and heat treated to comply with all requirements of ASTM A234, A420, A403 and the chemical and physical properties of the raw material fall within the ranges listed.



This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

| SPECIFICATION |                                                             |         |                                      | ANALYSIS  |          |           |           |           |             |             |           |
|---------------|-------------------------------------------------------------|---------|--------------------------------------|-----------|----------|-----------|-----------|-----------|-------------|-------------|-----------|
| ASTM SPEC.    | TITLE                                                       | GRADE   | DESCRIPTION                          | CARBON    | MANG.    | PHOS. MAX | SULP. MAX | SILICON   | NICKEL      | CHR.        | MO.       |
| A 234         | Carbon Steel                                                | WPB     |                                      | .30 Max.  | .29-1.06 | .050      | .058      | .10 Min   | .40 Max     | .40 Max     | .15 Max   |
| A 420         | Carbon and Alloy Steel Fittings For Low Temperature Service | WPL 6   |                                      | .30 Max.  | .50-1.35 | .035      | .040      | .15-.40   | .40 Max     | .30 Max     | .12 Max   |
| A 234         | Ferretic Alloy Steel Fittings For High Temperature Service  | WP 1    | Carbon Moly                          | .28 Max.  | .30-.90  | .045      | .045      | .10-.50   | .....       | .....       | .44-.65   |
|               |                                                             | WP 5    | 4-6 Chrome 1/2 Moly                  | .15 Max.  | .30-.60  | .040      | .030      | .50 Max   | .....       | 4.00-6.00   | .44-.65   |
|               |                                                             | WP 9    | 9 Chrome 1 Moly                      | .15 Max.  | .30-.60  | .030      | .030      | 1.00 Max  | .....       | 8.00-10.00  | .90-1.10  |
|               |                                                             | WP 11   | 1 1/4 Chrome 1/2 Moly                | .20 Max.  | .30-.80  | .040      | .040      | .5-1.00   | .....       | 1.00-1.50   | .44-.65   |
|               |                                                             | WP 12   | 1 Chrome 1 Moly                      | .20 Max.  | .30-.80  | .045      | .045      | .60 Max   | .....       | .80-1.25    | .44-.65   |
|               |                                                             | WP 22   | 2 1/4 Chrome 1 Moly                  | .15 Max.  | .30-.60  | .040      | .040      | .50 Max   | .....       | 1.90-2.60   | .87-1.13  |
|               |                                                             | WP 91   |                                      | .12 Max.  | .30-.60  | .062      | .010      | .20-.50   | .40 Max     | 8.00-9.50   | .85-1.05  |
| A 403         | Austenitic Alloy Steel Fittings For Corrosive Service       | WP 304  | Type 304-18-8 Stainless Steel        | .08 Max.  | 2.00 Max | .045      | .030      | .1.00 Max | 8.00-11.00  | 18.0-20.0   | .....     |
|               |                                                             | WP 304L | Type 304 ELC-18-8 Stainless Steel    | .030 Max. | 2.00 Max | .045      | .030      | .1.00 Max | 8.00-12.00  | 18.0-20.0   | .....     |
|               |                                                             | WP 316  | Type 316-18-8 Mo Stainless Steel     | .08 Max.  | 2.00 Max | .045      | .030      | .1.00 Max | 10.00-14.00 | 16.00-18.00 | 2.00-3.00 |
|               |                                                             | WP 316L | Type 316 ELC-18-8 Mo Stainless Steel | .030 Max. | 2.00 Max | .045      | .030      | .1.00 Max | 8.00-11.00  | 16.00-18.00 | 2.00-3.00 |
|               |                                                             | WP 347  | Type 347-18-8 cb Stainless Steel     | .08 Max.  | 2.00 Max | .045      | .030      | .1.00 Max | 10.00-14.00 | 17.00-19.00 | .....     |
|               |                                                             | WP 321  | Type 321-18-8 Ti Stainless Steel     | .08 Max.  | 2.00 Max | .045      | .030      | .1.00 Max | 9.00-13.00  | 17.00-19.00 | .....     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------|
| <b>MARKING</b><br>All Keddco fittings are permanently marked as follows:<br><b>Manufacturer's Symbol</b> <br><b>Material Specification</b> WPB, WPL6, WP304, WP316 (Alloys) J55, N80, L80, P110, 4130, 4140<br><b>Raw Material Code</b> Each part is die stamped with a unique heat code identifying the raw material type, details of purchase and steel mill test report.<br><b>Heat Treatment</b> When marked WPB, WPL6, an acceptable heat treatment is understood to have been performed.<br><b>Label Information</b> Size and Wall Thickness. |  | <b>THREADING</b><br>NPT in conformance with ANSI B1.20.1<br>Line pipe, tubing and casing are in conformance with API 5B |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | <b>COATINGS</b><br>Zinc Electroplate – ASTM A164<br>Type RS<br>Phosphate – Beveled Ends<br>Hot-Dip Galv – ASTM A123     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | <b>WELD BEVELS</b><br>Weld Bevels are machined as per ASME B-16.9                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                         |

## SWAGE NIPPLES

- Nominal Pipe size range 1/8 NPS / 6 DN – 12 NPS / 200 DN.
- Choice of raw material dependant upon size and reduction.
- Available standard, extra heavy, schedule 160, or double extra heavy.
- End finishes available: current API threads or ANSI, beveled, square cut (for socket-weld), or grooved.
- Available concentric and eccentric.

| SIZE  |     |             |     |                |            |        |     |                 |       |                    |       |                      |       |
|-------|-----|-------------|-----|----------------|------------|--------|-----|-----------------|-------|--------------------|-------|----------------------|-------|
| PIPE  |     | API or O.D. |     | REDUCED TO     |            | LENGTH |     | STANDARD WEIGHT |       | EXTRA HEAVY WEIGHT |       | DBL EX. & 160 WEIGHT |       |
| NPS   | DN  | IN          | MM  | NPS            | DN         | IN     | MM  | LB              | KG    | LB                 | KG    | LB                   | KG    |
| 1/4   | 8   | .540        | 15  | 1/8            | 6          | 2-1/4  | 57  |                 |       |                    |       | .25                  | .11   |
| 3/8   | 10  | .675        | 15  | 1/8            | 6          | 2-1/2  | 63  |                 |       | .25                | .11   | .38                  | .17   |
|       |     |             |     | 1/4            | 8          | 2-1/2  | 63  |                 |       | .25                | .11   | .38                  | .17   |
| 1/2   | 15  | .840        | 20  | 1/8            | 6          | 2-3/4  | 70  |                 |       | .33                | .15   | .50                  | .23   |
|       |     |             |     | 1/4 & 3/8      | 8 & 10     | 2-3/4  | 70  |                 |       | .33                | .15   | .50                  | .23   |
| 3/4   | 20  | 1.050       | 25  | 1/8            | 6          | 3      | 76  |                 |       | .50                | .23   | .75                  | .34   |
|       |     |             |     | 1/4 & 3/8      | 8 & 10     | 3      | 76  |                 |       | .50                | .23   | .75                  | .34   |
|       |     |             |     | 1/2            | 15         | 3      | 76  |                 |       | .50                | .23   | .75                  | .34   |
| 1     | 25  | 1.315       | 33  | 1/8            | 6          | 3-1/2  | 88  |                 |       | .66                | .30   | 1.00                 | .45   |
|       |     |             |     | 1/4 & 3/8      | 8 & 10     | 3-1/2  | 88  |                 |       | .66                | .30   | 1.00                 | .45   |
|       |     |             |     | 1/2 & 3/4      | 15 & 20    | 3-1/2  | 88  |                 |       | .66                | .30   | 1.00                 | .45   |
| 1-1/4 | 32  | 1.660       | 42  | 1/4 & 3/8      | 8 & 10     | 4      | 102 |                 |       | 1.00               | .45   | 1.50                 | .68   |
|       |     |             |     | 1/2 & 3/4      | 15 & 20    | 4      | 102 |                 |       | 1.00               | .45   | 1.50                 | .68   |
|       |     |             |     | 1              | 25         | 4      | 102 |                 |       | 1.00               | .45   | 1.50                 | .68   |
| 1-1/2 | 40  | 1.900       | 48  | 1/4 & 3/8      | 8 & 10     | 4-1/2  | 114 |                 |       | 1.17               | .53   | 2.00                 | .91   |
|       |     |             |     | 1/2 & 3/4      | 15 & 20    | 4-1/2  | 114 |                 |       | 1.17               | .53   | 2.00                 | .91   |
|       |     |             |     | 1              | 25         | 4-1/2  | 114 |                 |       | 1.17               | .53   | 2.00                 | .91   |
|       |     |             |     | 1-1/4          | 32         | 4-1/2  | 114 |                 |       | 1.17               | .53   | 2.00                 | .91   |
| 2     | 50  | 2-3/8       | 60  | 1/4 & 3/8      | 8 & 10     | 6-1/2  | 165 |                 |       | 3.00               | 1.36  | 4.25                 | 1.93  |
|       |     |             |     | 1/2 & 3/4      | 15 & 20    | 6-1/2  | 165 |                 |       | 3.00               | 1.36  | 4.25                 | 1.93  |
|       |     |             |     | 1              | 25         | 6-1/2  | 165 | 2.00            | .90   | 2.33               | 1.06  | 4.25                 | 1.93  |
|       |     |             |     | 1-1/4          | 32         | 6-1/2  | 165 | 2.00            | .90   | 2.33               | 1.06  | 4.25                 | 1.93  |
|       |     |             |     | 1-1/2          | 40         | 6-1/2  | 165 | 2.00            | .90   | 2.33               | 1.06  | 4.25                 | 1.93  |
| 2-1/2 | 65  | 2-7/8       | 73  | 1/2 & 3/4      | 15 & 20    | 7      | 178 |                 |       | 3.50               | 1.60  | 8.00                 | 3.64  |
|       |     |             |     | 1              | 25         | 7      | 178 | 3.00            | 1.36  | 3.50               | 1.60  | 8.00                 | 3.64  |
|       |     |             |     | 1-1/4          | 32         | 7      | 178 | 3.00            | 1.36  | 3.50               | 1.60  | 8.00                 | 3.64  |
|       |     |             |     | 1-1/2          | 40         | 7      | 178 | 3.00            | 1.36  | 3.50               | 1.60  | 8.00                 | 3.64  |
|       |     |             |     | 2              | 50         | 7      | 178 | 3.00            | 1.36  | 3.50               | 1.60  | 8.00                 | 3.64  |
| 3     | 80  | 3-1/2       | 88  | 1/2 & 3/4      | 15 & 20    | 8      | 203 |                 |       | 6.00               | 2.73  | 11.00                | 5.00  |
|       |     |             |     | 1              | 25         | 8      | 203 | 4.50            | 2.00  | 6.00               | 2.73  | 11.00                | 5.00  |
|       |     |             |     | 1-1/4          | 32         | 8      | 203 | 4.50            | 2.00  | 6.00               | 2.73  | 11.00                | 5.00  |
|       |     |             |     | 1-1/2          | 40         | 8      | 203 | 4.50            | 2.00  | 6.00               | 2.73  | 11.00                | 5.00  |
|       |     |             |     | 2 & 2-1/2      | 50 & 65    | 8      | 203 | 4.50            | 2.00  | 6.00               | 2.73  | 11.00                | 5.00  |
| 3-1/2 | 90  | 4           | 100 | 1/2 thru 1-1/2 | 15 thru 40 | 8      | 203 | 5.50            | 2.50  | 7.50               | 3.40  | 13.50                | 6.14  |
|       |     |             |     | 2 thru 3       | 50 thru 80 | 8      | 203 | 5.50            | 2.50  | 7.50               | 3.40  | 13.50                | 6.14  |
| 4     | 100 | 4-1/2       | 114 | 1/2 & 3/4      | 15 & 20    | 9      | 229 |                 |       | 10.00              | 4.50  | 18.00                | 8.20  |
|       |     |             |     | 1              | 25         | 9      | 229 | 7.50            | 3.40  | 10.00              | 4.50  | 18.00                | 8.20  |
|       |     |             |     | 1-1/4 & 1-1/2  | 32 & 40    | 9      | 229 | 7.50            | 3.40  | 10.00              | 4.50  | 18.00                | 8.20  |
|       |     |             |     | 2              | 50         | 9      | 229 | 7.50            | 3.40  | 10.00              | 4.50  | 18.00                | 8.20  |
|       |     |             |     | 2-1/2          | 65         | 9      | 229 | 7.50            | 3.40  | 10.00              | 4.50  | 18.00                | 8.20  |
|       |     |             |     | 3 & 3-1/2      | 80 & 90    | 9      | 229 | 7.50            | 3.40  | 10.00              | 4.50  | 18.00                | 8.20  |
| 5     | 125 | 5-9/16      | 140 | 1 thru 1-1/2   | 25 thru 40 | 11     | 279 | 11.50           | 5.23  | 17.00              | 7.73  | 33.00                | 15.00 |
|       |     |             |     | 2 & 2-1/2      | 50 & 65    | 11     | 279 | 11.50           | 5.23  | 17.00              | 7.73  | 33.00                | 15.00 |
|       |     |             |     | 3 & 3-1/2      | 80 & 90    | 11     | 279 | 11.50           | 5.23  | 17.00              | 7.73  | 33.00                | 15.00 |
|       |     |             |     | 4              | 100        | 11     | 279 | 11.50           | 5.23  | 17.00              | 7.73  | 33.00                | 15.00 |
| 6     | 150 | 6-5/8       | 168 | 1 thru 1-1/2   | 25 thru 40 | 12     | 305 | 17.00           | 7.73  | 25.00              | 11.40 | 46.00                | 21.00 |
|       |     |             |     | 2 & 2-1/2      | 50 & 65    | 12     | 305 | 17.00           | 7.73  | 25.00              | 11.40 | 46.00                | 21.00 |
|       |     |             |     | 3 & 3-1/2      | 80 & 90    | 12     | 305 | 17.00           | 7.73  | 25.00              | 11.40 | 46.00                | 21.00 |
|       |     |             |     | 4              | 100        | 12     | 305 | 17.00           | 7.73  | 25.00              | 11.40 | 46.00                | 21.00 |
|       |     |             |     | 5              | 125        | 12     | 305 | 17.00           | 7.73  | 25.00              | 11.40 | 46.00                | 21.00 |
| 8     | 200 | 8-5/8       | 219 | 2 thru 3       | 50 thru 80 | 13     | 330 | 29.00           | 13.20 | 44.00              | 20.00 | 78.00                | 36.00 |
|       |     |             |     | 4 & 5          | 100 & 125  | 13     | 330 | 29.00           | 13.20 | 44.00              | 20.00 | 78.00                | 36.00 |
|       |     |             |     | 6              | 150        | 13     | 330 | 29.00           | 13.20 | 44.00              | 20.00 | 78.00                | 36.00 |
| 10    | 250 | 10-3/4      | 273 |                |            | 15     | 381 | 48.00           | 22.00 | 66.00              | 30.00 | 130.00               | 59.00 |
| 12    | 300 | 12-3/4      | 324 |                |            | 18     | 457 | 75.00           | 34.00 | 98.00              | 45.00 | 180.00               | 85.00 |

## BULL PLUGS

- Nominal Pipe size range 1/8 NPS / 6 DN – 12 NPS / 300 DN.
- Choice of raw material dependant upon size and reduction.
- Available standard, extra heavy, schedule 160, or double extra heavy or solid.
- End finishes available: current API threads or ANSI, beveled, square cut (for socket-weld), or grooved.
- All bull plugs can be tapped.
- Available round and hex.

| SIZE  |     |             |     |        |     |                 |       |                    |       |                      |       |
|-------|-----|-------------|-----|--------|-----|-----------------|-------|--------------------|-------|----------------------|-------|
| PIPE  |     | API or O.D. |     | LENGTH |     | STANDARD WEIGHT |       | EXTRA HEAVY WEIGHT |       | DBL EX. & 160 WEIGHT |       |
| NPS   | DN  | IN          | MM  | IN     | MM  | LB              | KG    | LB                 | KG    | LB                   | KG    |
| 1/8   | 6   | .405        | 10  | 2      | 50  |                 |       | .10                | .05   | .40                  | .20   |
| 1/4   | 8   | .540        | 15  | 2      | 50  |                 |       | .11                | .05   | .40                  | .20   |
| 3/8   | 10  | .675        | 15  | 2-1/4  | 57  |                 |       | .14                | .06   | .28                  | .13   |
| 1/2   | 15  | .840        | 20  | 2-1/2  | 63  |                 |       | .33                | .15   | .50                  | .23   |
| 3/4   | 20  | 1.050       | 25  | 2-3/4  | 70  |                 |       | .50                | .23   | .75                  | .34   |
| 1     | 25  | 1.315       | 33  | 3      | 76  |                 |       | .66                | .30   | 1.00                 | .45   |
| 1-1/4 | 32  | 1.660       | 42  | 3-1/4  | 83  | 2.25            | 1.0   | 1.00               | .45   | 1.50                 | .70   |
| 1-1/2 | 40  | 1.900       | 48  | 3-1/2  | 89  | 3.00            | 1.40  | 1.17               | .53   | 2.00                 | .90   |
| 2     | 50  | 2-3/8       | 60  | 4      | 102 | 4.50            | 2.00  | 2.50               | 1.14  | 3.50                 | 1.60  |
| 2-1/2 | 65  | 2-7/8       | 73  | 5      | 127 | 5.50            | 2.50  | 3.50               | 1.59  | 8.00                 | 3.60  |
| 3     | 80  | 3-1/2       | 88  | 6      | 152 | 7.50            | 3.40  | 6.00               | 2.73  | 11.00                | 5.00  |
| 3-1/2 | 90  | 4           | 100 | 6-1/2  | 165 | 12.50           | 5.70  | 7.50               | 3.41  | 13.50                | 6.00  |
| 4     | 100 | 4-1/2       | 114 | 7      | 178 | 17.00           | 7.70  | 10.00              | 4.55  | 18.00                | 8.00  |
| 5     | 125 | 5-9/16      | 140 | 8-1/2  | 216 | 29.00           | 13.00 | 17.00              | 7.73  | 33.00                | 15.00 |
| 6     | 150 | 6-5/8       | 168 | 10     | 254 | 48.00           | 22.00 | 25.00              | 11.36 | 46.00                | 21.00 |
| 8     | 200 | 8-5/8       | 219 | 11     | 279 | 75.00           | 34.00 | 44.00              | 20.00 | 78.00                | 35.00 |
| 10    | 250 | 10-3/4      | 273 | 15     | 381 |                 |       | 66.00              | 30.00 | 130.00               | 59.00 |
| 12    | 300 | 12-3/4      | 324 | 18     | 457 |                 |       | 98.00              | 45.00 | 180.00               | 85.00 |



# SEAMLESS NIPPLES

| DIAM. | CLOSE LENGTH | STANDARD BLACK NIPPLES - SMLS - RIGHT HAND THREAD, A106-B (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 0.75                                                                               | 1.50  | 1.00  | 1.25  | 1.50  | 1.75  | 2.00  | 2.25  | 2.50  | 2.75  | 3.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/4   | 7/8          | 1.50                                                                               | 2.75  | 1.75  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.50  | 4.75  | 5.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/8   | 1            | 2.50                                                                               | 3.55  | 2.75  | 3.00  | 3.50  | 4.25  | 4.75  | 5.25  | 6.00  | 6.50  | 7.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/2   | 1-1/8        | 4.00                                                                               | 5.25  | 3.50  | 4.50  | 5.25  | 6.25  | 7.00  | 8.00  | 8.75  | 9.75  | 10.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/4   | 1-3/8        | 3.25                                                                               | 7.00  | 4.75  | 6.00  | 7.00  | 8.25  | 9.50  | 10.50 | 11.75 | 13.00 | 14.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1     | 1-1/2        | 5.25                                                                               |       | 7.00  | 8.75  | 10.50 | 12.25 | 14.00 | 15.75 | 17.50 | 19.25 | 21.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/4 | 1-5/8        | 7.75                                                                               |       | 9.50  | 11.75 | 11.25 | 13.25 | 15.25 | 17.00 | 19.00 | 20.75 | 22.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/2 | 1-3/4        | 10.00                                                                              |       | 11.50 | 14.25 | 13.59 | 15.75 | 18.00 | 20.25 | 22.75 | 25.00 | 27.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2     | 2            | 15.25                                                                              |       |       | 15.25 | 18.25 | 21.25 | 24.25 | 27.50 | 30.50 | 33.50 | 36.50 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2-1/2 | 2-1/2        | 12.00                                                                              |       |       |       | 15.50 | 17.00 | 19.25 | 21.75 | 24.25 | 26.50 | 29.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3     | 2-5/8        | 16.75                                                                              |       |       |       | 19.00 | 22.00 | 25.25 | 28.50 | 31.50 | 34.75 | 38.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 4     | 2-7/8        | 25.75                                                                              |       |       |       |       |       | 36.00 | 40.50 | 45.00 | 49.50 | 54.00 | 0A | 0A | 0A | 0A | 0A | 0A |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

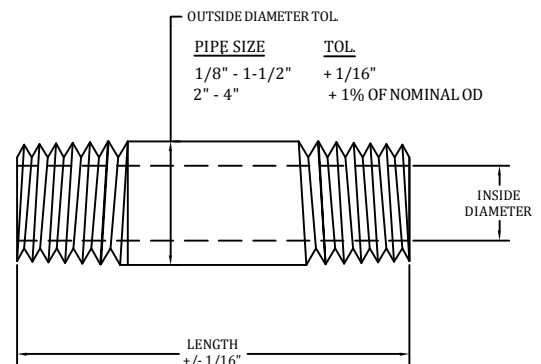
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | EXTRA HEAVY BLACK NIPPLES - SMLS - RIGHT HAND THREAD, A106-B (APPROX. WEIGHT PER BOX) |       |      |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|---------------------------------------------------------------------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.00                                                                                  | 2.00  | 1.25 | 1.50  | 2.00  | 2.25  | 2.50  | 3.00  | 3.25  | 3.50  | 4.00  | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.00                                                                                  | 3.25  | 2.25 | 2.75  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.25  | 6.75  | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 3.00                                                                                  | 4.50  | 3.00 | 3.75  | 4.50  | 5.50  | 6.25  | 7.00  | 7.75  | 8.50  | 9.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 5.00                                                                                  | 6.75  | 4.50 | 5.75  | 6.75  | 8.00  | 9.00  | 10.25 | 11.25 | 12.50 | 13.50 | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 4.25                                                                                  | 9.00  | 6.00 | 7.75  | 9.25  | 10.75 | 12.25 | 13.75 | 15.25 | 17.00 | 18.50 | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 6.75                                                                                  |       | 9.00 | 11.25 | 13.50 | 15.75 | 18.00 | 20.25 | 22.50 | 25.00 | 27.25 | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 10.25                                                                                 |       | 12.5 | 15.50 | 15.00 | 17.50 | 20.00 | 22.50 | 25.00 | 27.50 | 30.00 | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 13.25                                                                                 |       | 15.0 | 19.00 | 18.25 | 21.25 | 24.25 | 27.25 | 30.25 | 33.25 | 36.25 | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 21.00                                                                                 |       |      | 21.00 | 25.00 | 29.25 | 33.50 | 37.75 | 41.75 | 46.00 | 50.25 | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 16.00                                                                                 |       |      |       | 19.25 | 22.25 | 25.50 | 28.75 | 32.00 | 35.00 | 38.25 | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 22.50                                                                                 |       |      |       | 25.75 | 30.00 | 34.25 | 38.50 | 42.75 | 47.00 | 51.25 | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 30.00                                                                                 |       |      |       |       |       | 41.75 | 47.00 | 52.25 | 57.25 | 62.50 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    | 10    | 10 | 10    | 10 | 10    | 10 |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL SEAMLESS NIPPLES AVAILABLE, PRICED PER APPLICATION

AVAILABLE GALVANIZED: ASTM A123 HOT DIPPED; ASME B633-15 ZINC ELECTROPLATED



# SEAMLESS NIPPLES

| DIAM. | CLOSE LENGTH | SCH 160 BLACK NIPPLES - SMLS - RIGHT HAND THREAD, A106-B (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |        |        |    |    |    |    |    |    |
|-------|--------------|-----------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                              | 2.25  | 1.50  | 2.00  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.25   | 4.75   | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/4   | 7/8          | 2.25                                                                              | 3.75  | 2.50  | 3.25  | 3.75  | 4.50  | 5.00  | 5.75  | 6.50  | 7.00   | 7.75   | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/8   | 1            | 3.75                                                                              | 5.50  | 3.75  | 4.50  | 5.50  | 6.25  | 7.25  | 8.25  | 9.00  | 10.00  | 11.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/2   | 1-1/8        | 6.00                                                                              | 8.25  | 5.50  | 6.75  | 8.25  | 9.50  | 10.75 | 12.25 | 13.50 | 15.00  | 16.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/4   | 1-3/8        | 5.55                                                                              | 12.00 | 8.00  | 10.00 | 12.00 | 14.00 | 16.25 | 18.25 | 20.25 | 22.25  | 24.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1     | 1-1/2        | 9.00                                                                              |       | 11.75 | 14.75 | 17.75 | 20.75 | 23.75 | 26.75 | 29.75 | 32.50  | 35.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/4 | 1-5/8        | 12.75                                                                             |       | 15.75 | 19.50 | 18.75 | 22.00 | 25.00 | 28.25 | 31.50 | 34.50  | 37.75  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/2 | 1-3/4        | 17.75                                                                             |       | 20.25 | 25.25 | 24.25 | 28.25 | 32.50 | 36.50 | 40.50 | 44.50  | 48.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 2     | 2            | 31.00                                                                             |       |       | 31.00 | 37.25 | 43.50 | 49.75 | 55.75 | 62.00 | 68.25  | 74.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 2-1/2 | 2-1/2        | 20.75                                                                             |       |       |       | 25.00 | 29.25 | 33.25 | 37.50 | 41.75 | 46.00  | 50.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3     | 2-5/8        | 31.50                                                                             |       |       |       | 35.75 | 41.75 | 47.75 | 53.75 | 59.75 | 65.75  | 71.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 4     | 2-7/8        | 54.00                                                                             |       |       |       |       |       | 75.00 | 84.50 | 93.75 | 103.25 | 112.50 | 0A | 0A | 0A | 0A | 0A | 0A |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

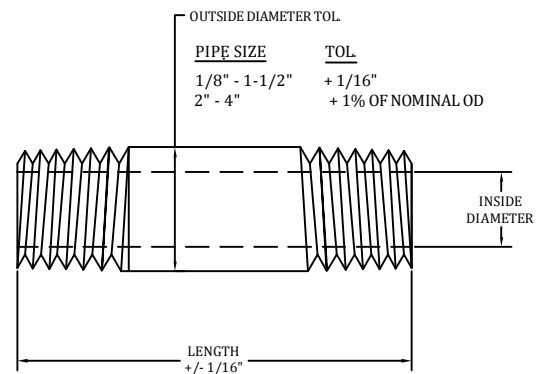
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | DBLE EXTRA HEAVY BLACK NIPPLES - SMLS - RIGHT HAND THREAD, A106-B (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |        |        |        |        |    |    |    |    |    |    |
|-------|--------------|--------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                       | 2.75  | 1.75  | 2.25  | 2.75  | 3.25  | 3.75  | 4.00   | 4.50   | 5.00   | 5.50   | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/4   | 7/8          | 2.75                                                                                       | 4.75  | 3.25  | 4.00  | 4.75  | 5.50  | 6.50  | 7.25   | 8.00   | 8.75   | 9.50   | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/8   | 1            | 4.75                                                                                       | 7.25  | 4.75  | 6.00  | 7.25  | 8.25  | 9.50  | 10.75  | 11.75  | 13.00  | 14.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/2   | 1-1/8        | 8.00                                                                                       | 10.75 | 7.25  | 9.00  | 10.75 | 12.50 | 14.25 | 16.00  | 17.75  | 19.75  | 21.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/4   | 1-3/8        | 7.00                                                                                       | 15.25 | 10.25 | 12.75 | 15.25 | 17.75 | 20.25 | 22.75  | 25.50  | 28.00  | 30.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1     | 1-1/2        | 11.50                                                                                      |       | 15.25 | 19.00 | 22.75 | 26.75 | 30.50 | 34.25  | 38.00  | 42.00  | 45.75  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/4 | 1-5/8        | 17.75                                                                                      |       | 21.75 | 27.25 | 26.00 | 30.50 | 34.75 | 39.00  | 43.50  | 47.75  | 52.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/2 | 1-3/4        | 23.75                                                                                      |       | 26.75 | 33.50 | 32.00 | 37.50 | 41.75 | 48.00  | 53.50  | 58.75  | 64.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 2     | 2            | 37.50                                                                                      |       |       | 37.50 | 45.25 | 52.50 | 60.25 | 67.75  | 75.25  | 82.75  | 90.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 2-1/2 | 2-1/2        | 28.50                                                                                      |       |       |       | 34.25 | 40.00 | 45.75 | 51.50  | 57.00  | 62.75  | 68.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3     | 2-5/8        | 41.00                                                                                      |       |       |       | 46.50 | 54.25 | 62.00 | 69.75  | 77.50  | 85.25  | 93.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 4     | 2-7/8        | 66.00                                                                                      |       |       |       |       |       | 92.00 | 103.25 | 114.75 | 126.25 | 137.70 | 0A | 0A | 0A | 0A | 0A | 0A |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    |       | 10 | 10    | 10 | 10    | 10 |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL SEAMLESS NIPPLES AVAILABLE, PRICED PER APPLICATION

AVAILABLE GALVANIZED: ASTM A123 HOT DIPPED; ASME B633-15 ZINC ELECTROPLATED



# LOW TEMP SMLS NIPPLES

| DIAM. | CLOSE LENGTH | STANDARD BLACK NIPPLES - SMLS - RIGHT HAND THREAD, A333 GR 6 (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|---------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 0.75                                                                                  | 1.50  | 1.00  | 1.25  | 1.50  | 1.75  | 2.00  | 2.25  | 2.50  | 2.75  | 3.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/4   | 7/8          | 1.50                                                                                  | 2.75  | 1.75  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.50  | 4.75  | 5.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/8   | 1            | 2.50                                                                                  | 3.55  | 2.75  | 3.00  | 3.50  | 4.25  | 4.75  | 5.25  | 6.00  | 6.50  | 7.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/2   | 1-1/8        | 4.00                                                                                  | 5.25  | 3.50  | 4.50  | 5.25  | 6.25  | 7.00  | 8.00  | 8.75  | 9.75  | 10.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/4   | 1-3/8        | 3.25                                                                                  | 7.00  | 4.75  | 6.00  | 7.00  | 8.25  | 9.50  | 10.50 | 11.75 | 13.00 | 14.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1     | 1-1/2        | 5.25                                                                                  |       | 7.00  | 8.75  | 10.50 | 12.25 | 14.00 | 15.75 | 17.50 | 19.25 | 21.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/4 | 1-5/8        | 7.75                                                                                  |       | 9.50  | 11.75 | 11.25 | 13.25 | 15.25 | 17.00 | 19.00 | 20.75 | 22.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/2 | 1-3/4        | 10.00                                                                                 |       | 11.50 | 14.25 | 13.59 | 15.75 | 18.00 | 20.25 | 22.75 | 25.00 | 27.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2     | 2            | 15.25                                                                                 |       |       | 15.25 | 18.25 | 21.25 | 24.25 | 27.50 | 30.50 | 33.50 | 36.50 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2-1/2 | 2-1/2        | 12.00                                                                                 |       |       |       | 15.50 | 17.00 | 19.25 | 21.75 | 24.25 | 26.50 | 29.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3     | 2-5/8        | 16.75                                                                                 |       |       |       | 19.00 | 22.00 | 25.25 | 28.50 | 31.50 | 34.75 | 38.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 4     | 2-7/8        | 25.75                                                                                 |       |       |       |       |       | 36.00 | 40.50 | 45.00 | 49.50 | 54.00 | 0A | 0A | 0A | 0A | 0A | 0A |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

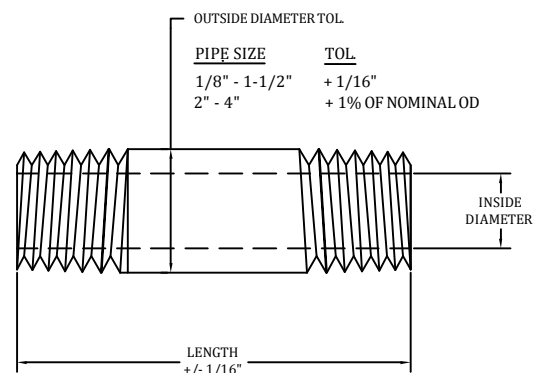
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | EXTRA HEAVY BLACK NIPPLES - SMLS - RIGHT HAND THREAD, A333 GR 6 (APPROX. WEIGHT PER BOX) |       |      |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|------------------------------------------------------------------------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.00                                                                                     | 2.00  | 1.25 | 1.50  | 2.00  | 2.25  | 2.50  | 3.00  | 3.25  | 3.50  | 4.00  | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.00                                                                                     | 3.25  | 2.25 | 2.75  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.25  | 6.75  | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 3.00                                                                                     | 4.50  | 3.00 | 3.75  | 4.50  | 5.50  | 6.25  | 7.00  | 7.75  | 8.50  | 9.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 5.00                                                                                     | 6.75  | 4.50 | 5.75  | 6.75  | 8.00  | 9.00  | 10.25 | 11.25 | 12.50 | 13.50 | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 4.25                                                                                     | 9.00  | 6.00 | 7.75  | 9.25  | 10.75 | 12.25 | 13.75 | 15.25 | 17.00 | 18.50 | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 6.75                                                                                     |       | 9.00 | 11.25 | 13.50 | 15.75 | 18.00 | 20.25 | 22.50 | 25.00 | 27.25 | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 10.25                                                                                    |       | 12.5 | 15.50 | 15.00 | 17.50 | 20.00 | 22.50 | 25.00 | 27.50 | 30.00 | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 13.25                                                                                    |       | 15.0 | 19.00 | 18.25 | 21.25 | 24.25 | 27.25 | 30.25 | 33.25 | 36.25 | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 21.00                                                                                    |       |      | 21.00 | 25.00 | 29.25 | 33.50 | 37.75 | 41.75 | 46.00 | 50.25 | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 16.00                                                                                    |       |      |       | 19.25 | 22.25 | 25.50 | 28.75 | 32.00 | 35.00 | 38.25 | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 22.50                                                                                    |       |      |       | 25.75 | 30.00 | 34.25 | 38.50 | 42.75 | 47.00 | 51.25 | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 30.00                                                                                    |       |      |       |       |       | 41.75 | 47.00 | 52.25 | 57.25 | 62.50 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    | 10    | 10 | 10    | 10 | 10    | 10 |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL SEAMLESS NIPPLES AVAILABLE, PRICED PER APPLICATION

AVAILABLE GALVANIZED: ASTM A123 HOT DIPPED; ASME B633-15 ZINC ELECTROPLATED



## LOW TEMP SMLS NIPPLES

| DIAM. | CLOSE LENGTH | SCH 160 BLACK NIPPLES - SMLS - RIGHT HAND THREAD, A333 GR 6 (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |        |        |    |    |    |    |    |    |
|-------|--------------|--------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                 | 2.25  | 1.50  | 2.00  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.25   | 4.75   | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/4   | 7/8          | 2.25                                                                                 | 3.75  | 2.50  | 3.25  | 3.75  | 4.50  | 5.00  | 5.75  | 6.50  | 7.00   | 7.75   | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/8   | 1            | 3.75                                                                                 | 5.50  | 3.75  | 4.50  | 5.50  | 6.25  | 7.25  | 8.25  | 9.00  | 10.00  | 11.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/2   | 1-1/8        | 6.00                                                                                 | 8.25  | 5.50  | 6.75  | 8.25  | 9.50  | 10.75 | 12.25 | 13.50 | 15.00  | 16.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/4   | 1-3/8        | 5.55                                                                                 | 12.00 | 8.00  | 10.00 | 12.00 | 14.00 | 16.25 | 18.25 | 20.25 | 22.25  | 24.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1     | 1-1/2        | 9.00                                                                                 |       | 11.75 | 14.75 | 17.75 | 20.75 | 23.75 | 26.75 | 29.75 | 32.50  | 35.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/4 | 1-5/8        | 12.75                                                                                |       | 15.75 | 19.50 | 18.75 | 22.00 | 25.00 | 28.25 | 31.50 | 34.50  | 37.75  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/2 | 1-3/4        | 17.75                                                                                |       | 20.25 | 25.25 | 24.25 | 28.25 | 32.50 | 36.50 | 40.50 | 44.50  | 48.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 2     | 2            | 31.00                                                                                |       |       | 31.00 | 37.25 | 43.50 | 49.75 | 55.75 | 62.00 | 68.25  | 74.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 2-1/2 | 2-1/2        | 20.75                                                                                |       |       |       | 25.00 | 29.25 | 33.25 | 37.50 | 41.75 | 46.00  | 50.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3     | 2-5/8        | 31.50                                                                                |       |       |       | 35.75 | 41.75 | 47.75 | 53.75 | 59.75 | 65.75  | 71.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 4     | 2-7/8        | 54.00                                                                                |       |       |       |       |       | 75.00 | 84.50 | 93.75 | 103.25 | 112.50 | 0A | 0A | 0A | 0A | 0A | 0A |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

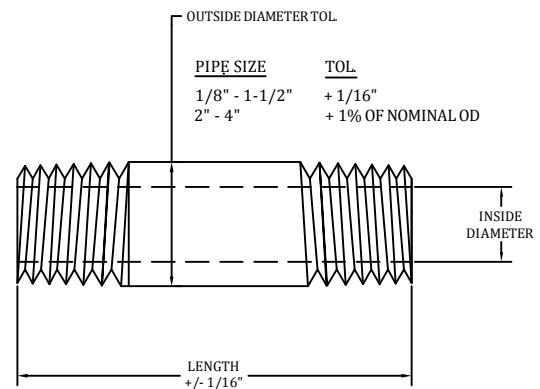
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | DBLE EXTRA HEAVY BLACK NIPPLES - SMLS - RIGHT HAND THREAD, A333 GR 6 (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |        |        |        |        |    |    |    |    |    |    |
|-------|--------------|-----------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                          | 2.75  | 1.75  | 2.25  | 2.75  | 3.25  | 3.75  | 4.00   | 4.50   | 5.00   | 5.50   | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.75                                                                                          | 4.75  | 3.25  | 4.00  | 4.75  | 5.50  | 6.50  | 7.25   | 8.00   | 8.75   | 9.50   | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 4.75                                                                                          | 7.25  | 4.75  | 6.00  | 7.25  | 8.25  | 9.50  | 10.75  | 11.75  | 13.00  | 14.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 8.00                                                                                          | 10.75 | 7.25  | 9.00  | 10.75 | 12.50 | 14.25 | 16.00  | 17.75  | 19.75  | 21.50  | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 7.00                                                                                          | 15.25 | 10.25 | 12.75 | 15.25 | 17.75 | 20.25 | 22.75  | 25.50  | 28.00  | 30.50  | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 11.50                                                                                         |       | 15.25 | 19.00 | 22.75 | 26.75 | 30.50 | 34.25  | 38.00  | 42.00  | 45.75  | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 17.75                                                                                         |       | 21.75 | 27.25 | 26.00 | 30.50 | 34.75 | 39.00  | 43.50  | 47.75  | 52.25  | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 23.75                                                                                         |       | 26.75 | 33.50 | 32.00 | 37.50 | 41.75 | 48.00  | 53.50  | 58.75  | 64.00  | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 37.50                                                                                         |       |       | 37.50 | 45.25 | 52.50 | 60.25 | 67.75  | 75.25  | 82.75  | 90.25  | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 28.50                                                                                         |       |       |       | 34.25 | 40.00 | 45.75 | 51.50  | 57.00  | 62.75  | 68.50  | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 41.00                                                                                         |       |       |       | 46.50 | 54.25 | 62.00 | 69.75  | 77.50  | 85.25  | 93.00  | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 66.00                                                                                         |       |       |       |       |       | 92.00 | 103.25 | 114.75 | 126.25 | 137.70 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    |       | 10 | 10    | 10 | 10    | 10 |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL SEAMLESS NIPPLES AVAILABLE, PRICED PER APPLICATION

AVAILABLE GALVANIZED: ASTM A123 HOT DIPPED; ASME B633-15 ZINC ELECTROPLATED



## ERW WELDED NIPPLES

| DIAM. | CLOSE LENGTH | STANDARD BLACK NIPPLES - ERW - RIGHT HAND THREAD, A53-B (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|----------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 0.75                                                                             | 1.50  | 1.00  | 1.25  | 1.50  | 1.75  | 2.00  | 2.25  | 2.50  | 2.75  | 3.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/4   | 7/8          | 1.50                                                                             | 2.75  | 1.75  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.50  | 4.75  | 5.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/8   | 1            | 2.50                                                                             | 3.55  | 2.75  | 3.00  | 3.50  | 4.25  | 4.75  | 5.25  | 6.00  | 6.50  | 7.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/2   | 1-1/8        | 4.00                                                                             | 5.25  | 3.50  | 4.50  | 5.25  | 6.25  | 7.00  | 8.00  | 8.75  | 9.75  | 10.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/4   | 1-3/8        | 3.25                                                                             | 7.00  | 4.75  | 6.00  | 7.00  | 8.25  | 9.50  | 10.50 | 11.75 | 13.00 | 14.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1     | 1-1/2        | 5.25                                                                             |       | 7.00  | 8.75  | 10.50 | 12.25 | 14.00 | 15.75 | 17.50 | 19.25 | 21.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/4 | 1-5/8        | 7.75                                                                             |       | 9.50  | 11.75 | 11.25 | 13.25 | 15.25 | 17.00 | 19.00 | 20.75 | 22.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/2 | 1-3/4        | 10.00                                                                            |       | 11.50 | 14.25 | 13.59 | 15.75 | 18.00 | 20.25 | 22.75 | 25.00 | 27.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2     | 2            | 15.25                                                                            |       |       | 15.25 | 18.25 | 21.25 | 24.25 | 27.50 | 30.50 | 33.50 | 36.50 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2-1/2 | 2-1/2        | 12.00                                                                            |       |       |       | 15.50 | 17.00 | 19.25 | 21.75 | 24.25 | 26.50 | 29.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3     | 2-5/8        | 16.75                                                                            |       |       |       | 19.00 | 22.00 | 25.25 | 28.50 | 31.50 | 34.75 | 38.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 4     | 2-7/8        | 25.75                                                                            |       |       |       |       |       | 36.00 | 40.50 | 45.00 | 49.50 | 54.00 | 0A | 0A | 0A | 0A | 0A | 0A |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

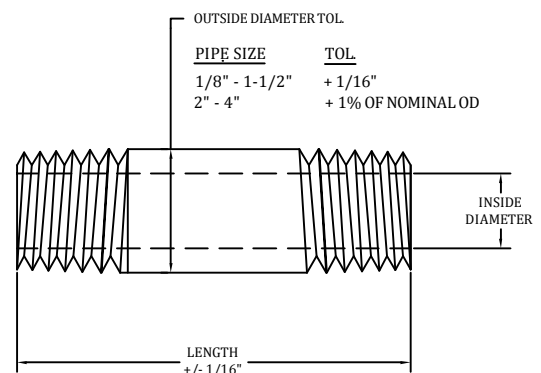
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | EXTRA HEAVY BLACK NIPPLES - ERW - RIGHT HAND THREAD, A53-B (APPROX. WEIGHT PER BOX) |       |      |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|-------------------------------------------------------------------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.00                                                                                | 2.00  | 1.25 | 1.50  | 2.00  | 2.25  | 2.50  | 3.00  | 3.25  | 3.50  | 4.00  | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.00                                                                                | 3.25  | 2.25 | 2.75  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.25  | 6.75  | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 3.00                                                                                | 4.50  | 3.00 | 3.75  | 4.50  | 5.50  | 6.25  | 7.00  | 7.75  | 8.50  | 9.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 5.00                                                                                | 6.75  | 4.50 | 5.75  | 6.75  | 8.00  | 9.00  | 10.25 | 11.25 | 12.50 | 13.50 | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 4.25                                                                                | 9.00  | 6.00 | 7.75  | 9.25  | 10.75 | 12.25 | 13.75 | 15.25 | 17.00 | 18.50 | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 6.75                                                                                |       | 9.00 | 11.25 | 13.50 | 15.75 | 18.00 | 20.25 | 22.50 | 25.00 | 27.25 | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 10.25                                                                               |       | 12.5 | 15.50 | 15.00 | 17.50 | 20.00 | 22.50 | 25.00 | 27.50 | 30.00 | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 13.25                                                                               |       | 15.0 | 19.00 | 18.25 | 21.25 | 24.25 | 27.25 | 30.25 | 33.25 | 36.25 | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 21.00                                                                               |       |      | 21.00 | 25.00 | 29.25 | 33.50 | 37.75 | 41.75 | 46.00 | 50.25 | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 16.00                                                                               |       |      |       | 19.25 | 22.25 | 25.50 | 28.75 | 32.00 | 35.00 | 38.25 | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 22.50                                                                               |       |      |       | 25.75 | 30.00 | 34.25 | 38.50 | 42.75 | 47.00 | 51.25 | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 30.00                                                                               |       |      |       |       |       | 41.75 | 47.00 | 52.25 | 57.25 | 62.50 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    | 10    | 10 | 10    | 10 | 10    | 10 |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL SEAMLESS NIPPLES AVAILABLE, PRICED PER APPLICATION

AVAILABLE GALVANIZED: ASTM A123 HOT DIPPED; ASME B633-15 ZINC ELECTROPLATED



# ERW WELDED NIPPLES

| DIAM. | CLOSE LENGTH | SCH 160 BLACK NIPPLES - ERW - RIGHT HAND THREAD, A53-B (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |        |        |    |    |    |    |    |    |
|-------|--------------|---------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                            | 2.25  | 1.50  | 2.00  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.25   | 4.75   | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/4   | 7/8          | 2.25                                                                            | 3.75  | 2.50  | 3.25  | 3.75  | 4.50  | 5.00  | 5.75  | 6.50  | 7.00   | 7.75   | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/8   | 1            | 3.75                                                                            | 5.50  | 3.75  | 4.50  | 5.50  | 6.25  | 7.25  | 8.25  | 9.00  | 10.00  | 11.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/2   | 1-1/8        | 6.00                                                                            | 8.25  | 5.50  | 6.75  | 8.25  | 9.50  | 10.75 | 12.25 | 13.50 | 15.00  | 16.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/4   | 1-3/8        | 5.55                                                                            | 12.00 | 8.00  | 10.00 | 12.00 | 14.00 | 16.25 | 18.25 | 20.25 | 22.25  | 24.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1     | 1-1/2        | 9.00                                                                            |       | 11.75 | 14.75 | 17.75 | 20.75 | 23.75 | 26.75 | 29.75 | 32.50  | 35.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/4 | 1-5/8        | 12.75                                                                           |       | 15.75 | 19.50 | 18.75 | 22.00 | 25.00 | 28.25 | 31.50 | 34.50  | 37.75  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/2 | 1-3/4        | 17.75                                                                           |       | 20.25 | 25.25 | 24.25 | 28.25 | 32.50 | 36.50 | 40.50 | 44.50  | 48.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 2     | 2            | 31.00                                                                           |       |       | 31.00 | 37.25 | 43.50 | 49.75 | 55.75 | 62.00 | 68.25  | 74.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 2-1/2 | 2-1/2        | 20.75                                                                           |       |       |       | 25.00 | 29.25 | 33.25 | 37.50 | 41.75 | 46.00  | 50.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3     | 2-5/8        | 31.50                                                                           |       |       |       | 35.75 | 41.75 | 47.75 | 53.75 | 59.75 | 65.75  | 71.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 4     | 2-7/8        | 54.00                                                                           |       |       |       |       |       | 75.00 | 84.50 | 93.75 | 103.25 | 112.50 | 0A | 0A | 0A | 0A | 0A | 0A |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

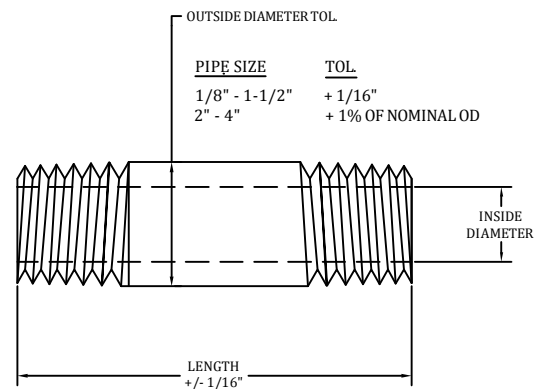
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | DBLE EXTRA HEAVY BLACK NIPPLES - ERW - RIGHT HAND THREAD, A53-B (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |        |        |        |        |    |    |    |    |    |    |
|-------|--------------|------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                     | 2.75  | 1.75  | 2.25  | 2.75  | 3.25  | 3.75  | 4.00   | 4.50   | 5.00   | 5.50   | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.75                                                                                     | 4.75  | 3.25  | 4.00  | 4.75  | 5.50  | 6.50  | 7.25   | 8.00   | 8.75   | 9.50   | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 4.75                                                                                     | 7.25  | 4.75  | 6.00  | 7.25  | 8.25  | 9.50  | 10.75  | 11.75  | 13.00  | 14.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 8.00                                                                                     | 10.75 | 7.25  | 9.00  | 10.75 | 12.50 | 14.25 | 16.00  | 17.75  | 19.75  | 21.50  | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 7.00                                                                                     | 15.25 | 10.25 | 12.75 | 15.25 | 17.75 | 20.25 | 22.75  | 25.50  | 28.00  | 30.50  | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 11.50                                                                                    |       | 15.25 | 19.00 | 22.75 | 26.75 | 30.50 | 34.25  | 38.00  | 42.00  | 45.75  | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 17.75                                                                                    |       | 21.75 | 27.25 | 26.00 | 30.50 | 34.75 | 39.00  | 43.50  | 47.75  | 52.25  | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 23.75                                                                                    |       | 26.75 | 33.50 | 32.00 | 37.50 | 41.75 | 48.00  | 53.50  | 58.75  | 64.00  | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 37.50                                                                                    |       |       | 37.50 | 45.25 | 52.50 | 60.25 | 67.75  | 75.25  | 82.75  | 90.25  | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 28.50                                                                                    |       |       |       | 34.25 | 40.00 | 45.75 | 51.50  | 57.00  | 62.75  | 68.50  | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 41.00                                                                                    |       |       |       | 46.50 | 54.25 | 62.00 | 69.75  | 77.50  | 85.25  | 93.00  | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 66.00                                                                                    |       |       |       |       |       | 92.00 | 103.25 | 114.75 | 126.25 | 137.70 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    |       | 10 | 10    | 10 | 10    | 10 |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL SEAMLESS NIPPLES AVAILABLE, PRICED PER APPLICATION

AVAILABLE GALVANIZED: ASTM A123 HOT DIPPED; ASME B633-15 ZINC ELECTROPLATED



# SEAMLESS NIPPLES

| DIAM. | CLOSE LENGTH | STANDARD STAINLESS STEEL NIPPLES - SMLS - RIGHT HAND THREAD, A312 TP316/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|----------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 0.75                                                                                               | 1.50  | 1.00  | 1.25  | 1.50  | 1.75  | 2.00  | 2.25  | 2.50  | 2.75  | 3.00  | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 1.50                                                                                               | 2.75  | 1.75  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.50  | 4.75  | 5.25  | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 2.50                                                                                               | 3.55  | 2.75  | 3.00  | 3.50  | 4.25  | 4.75  | 5.25  | 6.00  | 6.50  | 7.00  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 4.00                                                                                               | 5.25  | 3.50  | 4.50  | 5.25  | 6.25  | 7.00  | 8.00  | 8.75  | 9.75  | 10.75 | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 3.25                                                                                               | 7.00  | 4.75  | 6.00  | 7.00  | 8.25  | 9.50  | 10.50 | 11.75 | 13.00 | 14.25 | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 5.25                                                                                               |       | 7.00  | 8.75  | 10.50 | 12.25 | 14.00 | 15.75 | 17.50 | 19.25 | 21.00 | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 7.75                                                                                               |       | 9.50  | 11.75 | 11.25 | 13.25 | 15.25 | 17.00 | 19.00 | 20.75 | 22.75 | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 10.00                                                                                              |       | 11.50 | 14.25 | 13.59 | 15.75 | 18.00 | 20.25 | 22.75 | 25.00 | 27.25 | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 15.25                                                                                              |       |       | 15.25 | 18.25 | 21.25 | 24.25 | 27.50 | 30.50 | 33.50 | 36.50 | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 12.00                                                                                              |       |       |       | 15.50 | 17.00 | 19.25 | 21.75 | 24.25 | 26.50 | 29.00 | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 16.75                                                                                              |       |       |       | 19.00 | 22.00 | 25.25 | 28.50 | 31.50 | 34.75 | 38.00 | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 25.75                                                                                              |       |       |       |       |       | 36.00 | 40.50 | 45.00 | 49.50 | 54.00 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

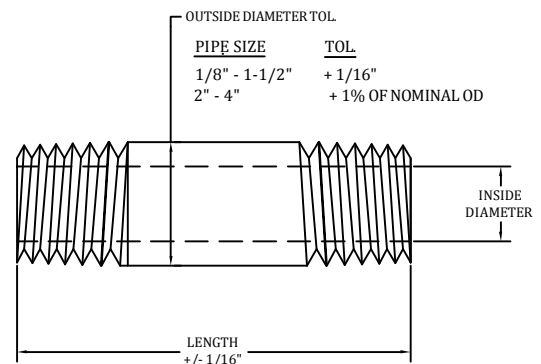
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | EXTRA HEAVY STAINLESS STEEL NIPPLES - SMLS - RIGHT HAND THREAD, A312 TP316/L (APPROX. WEIGHT PER BOX) |       |      |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|-------------------------------------------------------------------------------------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.00                                                                                                  | 2.00  | 1.25 | 1.50  | 2.00  | 2.25  | 2.50  | 3.00  | 3.25  | 3.50  | 4.00  | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.00                                                                                                  | 3.25  | 2.25 | 2.75  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.25  | 6.75  | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 3.00                                                                                                  | 4.50  | 3.00 | 3.75  | 4.50  | 5.50  | 6.25  | 7.00  | 7.75  | 8.50  | 9.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 5.00                                                                                                  | 6.75  | 4.50 | 5.75  | 6.75  | 8.00  | 9.00  | 10.25 | 11.25 | 12.50 | 13.50 | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 4.25                                                                                                  | 9.00  | 6.00 | 7.75  | 9.25  | 10.75 | 12.25 | 13.75 | 15.25 | 17.00 | 18.50 | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 6.75                                                                                                  |       | 9.00 | 11.25 | 13.50 | 15.75 | 18.00 | 20.25 | 22.50 | 25.00 | 27.25 | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 10.25                                                                                                 |       | 12.5 | 15.50 | 15.00 | 17.50 | 20.00 | 22.50 | 25.00 | 27.50 | 30.00 | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 13.25                                                                                                 |       | 15.0 | 19.00 | 18.25 | 21.25 | 24.25 | 27.25 | 30.25 | 33.25 | 36.25 | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 21.00                                                                                                 |       |      | 21.00 | 25.00 | 29.25 | 33.50 | 37.75 | 41.75 | 46.00 | 50.25 | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 16.00                                                                                                 |       |      |       | 19.25 | 22.25 | 25.50 | 28.75 | 32.00 | 35.00 | 38.25 | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 22.50                                                                                                 |       |      |       | 25.75 | 30.00 | 34.25 | 38.50 | 42.75 | 47.00 | 51.25 | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 30.00                                                                                                 |       |      |       |       |       | 41.75 | 47.00 | 52.25 | 57.25 | 62.50 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |  |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|--|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |  |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |  |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |  |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |  |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |  |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |  |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |  |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |  |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |  |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |  |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |  |
| 4     | 10             |       |    |       |    | 10    | 10 | 10    | 10 | 10    | 10 |  |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL SEAMLESS NIPPLES AVAILABLE, PRICED PER APPLICATION



# SEAMLESS NIPPLES

| DIAM. | CLOSE LENGTH | SCH 160 STAINLESS STEEL NIPPLES - SMLS - RIGHT HAND THREAD, A312 TP316/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |        |        |    |    |    |    |    |    |
|-------|--------------|---------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                              | 2.25  | 1.50  | 2.00  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.25   | 4.75   | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/4   | 7/8          | 2.25                                                                                              | 3.75  | 2.50  | 3.25  | 3.75  | 4.50  | 5.00  | 5.75  | 6.50  | 7.00   | 7.75   | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/8   | 1            | 3.75                                                                                              | 5.50  | 3.75  | 4.50  | 5.50  | 6.25  | 7.25  | 8.25  | 9.00  | 10.00  | 11.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/2   | 1-1/8        | 6.00                                                                                              | 8.25  | 5.50  | 6.75  | 8.25  | 9.50  | 10.75 | 12.25 | 13.50 | 15.00  | 16.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/4   | 1-3/8        | 5.55                                                                                              | 12.00 | 8.00  | 10.00 | 12.00 | 14.00 | 16.25 | 18.25 | 20.25 | 22.25  | 24.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1     | 1-1/2        | 9.00                                                                                              |       | 11.75 | 14.75 | 17.75 | 20.75 | 23.75 | 26.75 | 29.75 | 32.50  | 35.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/4 | 1-5/8        | 12.75                                                                                             |       | 15.75 | 19.50 | 18.75 | 22.00 | 25.00 | 28.25 | 31.50 | 34.50  | 37.75  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/2 | 1-3/4        | 17.75                                                                                             |       | 20.25 | 25.25 | 24.25 | 28.25 | 32.50 | 36.50 | 40.50 | 44.50  | 48.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 2     | 2            | 31.00                                                                                             |       |       | 31.00 | 37.25 | 43.50 | 49.75 | 55.75 | 62.00 | 68.25  | 74.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 2-1/2 | 2-1/2        | 20.75                                                                                             |       |       |       | 25.00 | 29.25 | 33.25 | 37.50 | 41.75 | 46.00  | 50.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3     | 2-5/8        | 31.50                                                                                             |       |       |       | 35.75 | 41.75 | 47.75 | 53.75 | 59.75 | 65.75  | 71.50  | 0A | 0A | 0A | 0A | 0A | 0A |
| 4     | 2-7/8        | 54.00                                                                                             |       |       |       |       |       | 75.00 | 84.50 | 93.75 | 103.25 | 112.50 | 0A | 0A | 0A | 0A | 0A | 0A |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

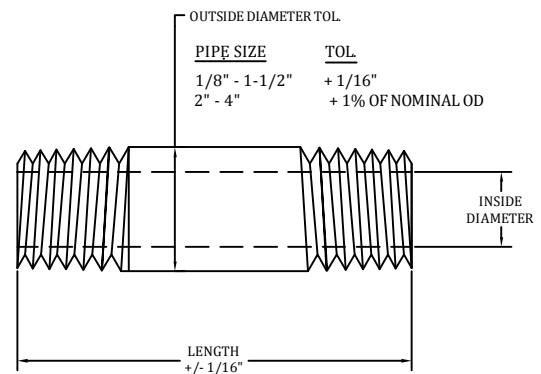
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | DBLE EXTRA HEAVY STAINLESS STEEL NIPPLES - SMLS - RIGHT HAND THREAD, A312 TP316/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |        |        |        |        |    |    |    |    |    |    |
|-------|--------------|------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                                       | 2.75  | 1.75  | 2.25  | 2.75  | 3.25  | 3.75  | 4.00   | 4.50   | 5.00   | 5.50   | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.75                                                                                                       | 4.75  | 3.25  | 4.00  | 4.75  | 5.50  | 6.50  | 7.25   | 8.00   | 8.75   | 9.50   | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 4.75                                                                                                       | 7.25  | 4.75  | 6.00  | 7.25  | 8.25  | 9.50  | 10.75  | 11.75  | 13.00  | 14.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 8.00                                                                                                       | 10.75 | 7.25  | 9.00  | 10.75 | 12.50 | 14.25 | 16.00  | 17.75  | 19.75  | 21.50  | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 7.00                                                                                                       | 15.25 | 10.25 | 12.75 | 15.25 | 17.75 | 20.25 | 22.75  | 25.50  | 28.00  | 30.50  | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 11.50                                                                                                      |       | 15.25 | 19.00 | 22.75 | 26.75 | 30.50 | 34.25  | 38.00  | 42.00  | 45.75  | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 17.75                                                                                                      |       | 21.75 | 27.25 | 26.00 | 30.50 | 34.75 | 39.00  | 43.50  | 47.75  | 52.25  | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 23.75                                                                                                      |       | 26.75 | 33.50 | 32.00 | 37.50 | 41.75 | 48.00  | 53.50  | 58.75  | 64.00  | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 37.50                                                                                                      |       |       | 37.50 | 45.25 | 52.50 | 60.25 | 67.75  | 75.25  | 82.75  | 90.25  | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 28.50                                                                                                      |       |       |       | 34.25 | 40.00 | 45.75 | 51.50  | 57.00  | 62.75  | 68.50  | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 41.00                                                                                                      |       |       |       | 46.50 | 54.25 | 62.00 | 69.75  | 77.50  | 85.25  | 93.00  | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 66.00                                                                                                      |       |       |       |       |       | 92.00 | 103.25 | 114.75 | 126.25 | 137.70 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    |       | 10 | 10    | 10 | 10    | 10 |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL SEAMLESS NIPPLES AVAILABLE, PRICED PER APPLICATION



# WELDED NIPPLES

| DIAM. | CLOSE LENGTH | STANDARD STAINLESS STEEL NIPPLES - WELDED - RIGHT HAND THREAD, A312 TP316/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 0.75                                                                                                 | 1.50  | 1.00  | 1.25  | 1.50  | 1.75  | 2.00  | 2.25  | 2.50  | 2.75  | 3.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/4   | 7/8          | 1.50                                                                                                 | 2.75  | 1.75  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.50  | 4.75  | 5.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/8   | 1            | 2.50                                                                                                 | 3.55  | 2.75  | 3.00  | 3.50  | 4.25  | 4.75  | 5.25  | 6.00  | 6.50  | 7.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/2   | 1-1/8        | 4.00                                                                                                 | 5.25  | 3.50  | 4.50  | 5.25  | 6.25  | 7.00  | 8.00  | 8.75  | 9.75  | 10.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/4   | 1-3/8        | 3.25                                                                                                 | 7.00  | 4.75  | 6.00  | 7.00  | 8.25  | 9.50  | 10.50 | 11.75 | 13.00 | 14.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1     | 1-1/2        | 5.25                                                                                                 |       | 7.00  | 8.75  | 10.50 | 12.25 | 14.00 | 15.75 | 17.50 | 19.25 | 21.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/4 | 1-5/8        | 7.75                                                                                                 |       | 9.50  | 11.75 | 11.25 | 13.25 | 15.25 | 17.00 | 19.00 | 20.75 | 22.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/2 | 1-3/4        | 10.00                                                                                                |       | 11.50 | 14.25 | 13.59 | 15.75 | 18.00 | 20.25 | 22.75 | 25.00 | 27.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2     | 2            | 15.25                                                                                                |       |       | 15.25 | 18.25 | 21.25 | 24.25 | 27.50 | 30.50 | 33.50 | 36.50 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2-1/2 | 2-1/2        | 12.00                                                                                                |       |       |       | 15.50 | 17.00 | 19.25 | 21.75 | 24.25 | 26.50 | 29.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3     | 2-5/8        | 16.75                                                                                                |       |       |       | 19.00 | 22.00 | 25.25 | 28.50 | 31.50 | 34.75 | 38.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 4     | 2-7/8        | 25.75                                                                                                |       |       |       |       |       | 36.00 | 40.50 | 45.00 | 49.50 | 54.00 | 0A | 0A | 0A | 0A | 0A | 0A |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

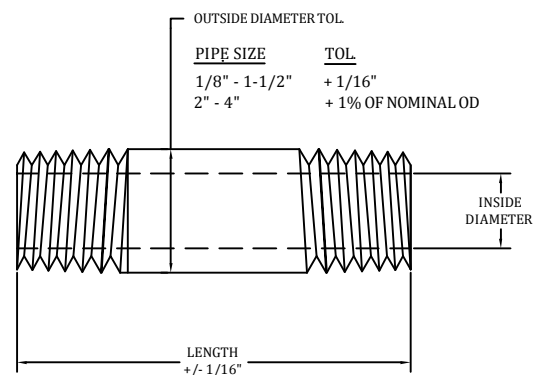
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | EXTRA HEAVY STAINLESS STEEL NIPPLES - WELDED - RIGHT HAND THREAD, A312 TP316/L (APPROX. WEIGHT PER BOX) |       |      |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|---------------------------------------------------------------------------------------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.00                                                                                                    | 2.00  | 1.25 | 1.50  | 2.00  | 2.25  | 2.50  | 3.00  | 3.25  | 3.50  | 4.00  | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.00                                                                                                    | 3.25  | 2.25 | 2.75  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.25  | 6.75  | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 3.00                                                                                                    | 4.50  | 3.00 | 3.75  | 4.50  | 5.50  | 6.25  | 7.00  | 7.75  | 8.50  | 9.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 5.00                                                                                                    | 6.75  | 4.50 | 5.75  | 6.75  | 8.00  | 9.00  | 10.25 | 11.25 | 12.50 | 13.50 | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 4.25                                                                                                    | 9.00  | 6.00 | 7.75  | 9.25  | 10.75 | 12.25 | 13.75 | 15.25 | 17.00 | 18.50 | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 6.75                                                                                                    |       | 9.00 | 11.25 | 13.50 | 15.75 | 18.00 | 20.25 | 22.50 | 25.00 | 27.25 | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 10.25                                                                                                   |       | 12.5 | 15.50 | 15.00 | 17.50 | 20.00 | 22.50 | 25.00 | 27.50 | 30.00 | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 13.25                                                                                                   |       | 15.0 | 19.00 | 18.25 | 21.25 | 24.25 | 27.25 | 30.25 | 33.25 | 36.25 | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 21.00                                                                                                   |       |      | 21.00 | 25.00 | 29.25 | 33.50 | 37.75 | 41.75 | 46.00 | 50.25 | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 16.00                                                                                                   |       |      |       | 19.25 | 22.25 | 25.50 | 28.75 | 32.00 | 35.00 | 38.25 | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 22.50                                                                                                   |       |      |       | 25.75 | 30.00 | 34.25 | 38.50 | 42.75 | 47.00 | 51.25 | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 30.00                                                                                                   |       |      |       |       |       | 41.75 | 47.00 | 52.25 | 57.25 | 62.50 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    | 10    | 10 | 10    | 10 | 10    | 10 |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL WELDED NIPPLES AVAILABLE, PRICED PER APPLICATION



# WELDED NIPPLES

| DIAM. | CLOSE LENGTH | SCH 160 STAINLESS STEEL NIPPLES - WELDED - RIGHT HAND THREAD, A312 TP316/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |        |        |    |    |    |    |    |    |
|-------|--------------|-----------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                                | 2.25  | 1.50  | 2.00  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.25   | 4.75   | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.25                                                                                                | 3.75  | 2.50  | 3.25  | 3.75  | 4.50  | 5.00  | 5.75  | 6.50  | 7.00   | 7.75   | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 3.75                                                                                                | 5.50  | 3.75  | 4.50  | 5.50  | 6.25  | 7.25  | 8.25  | 9.00  | 10.00  | 11.00  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 6.00                                                                                                | 8.25  | 5.50  | 6.75  | 8.25  | 9.50  | 10.75 | 12.25 | 13.50 | 15.00  | 16.25  | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 5.55                                                                                                | 12.00 | 8.00  | 10.00 | 12.00 | 14.00 | 16.25 | 18.25 | 20.25 | 22.25  | 24.25  | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 9.00                                                                                                |       | 11.75 | 14.75 | 17.75 | 20.75 | 23.75 | 26.75 | 29.75 | 32.50  | 35.50  | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 12.75                                                                                               |       | 15.75 | 19.50 | 18.75 | 22.00 | 25.00 | 28.25 | 31.50 | 34.50  | 37.75  | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 17.75                                                                                               |       | 20.25 | 25.25 | 24.25 | 28.25 | 32.50 | 36.50 | 40.50 | 44.50  | 48.50  | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 31.00                                                                                               |       |       | 31.00 | 37.25 | 43.50 | 49.75 | 55.75 | 62.00 | 68.25  | 74.50  | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 20.75                                                                                               |       |       |       | 25.00 | 29.25 | 33.25 | 37.50 | 41.75 | 46.00  | 50.00  | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 31.50                                                                                               |       |       |       | 35.75 | 41.75 | 47.75 | 53.75 | 59.75 | 65.75  | 71.50  | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 54.00                                                                                               |       |       |       |       |       | 75.00 | 84.50 | 93.75 | 103.25 | 112.50 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

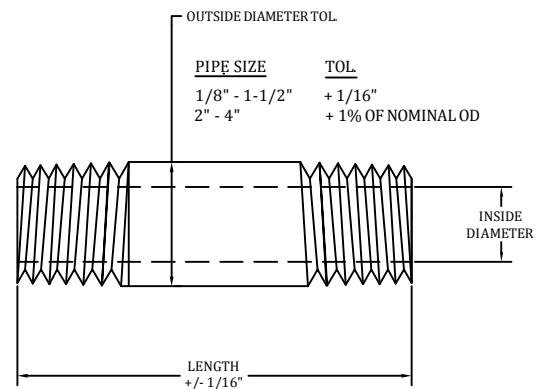
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | DBLE EXTRA HEAVY STAINLESS STEEL NIPPLES - WELDED - RIGHT HAND THREAD, A312 TP 316/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |        |        |        |        |    |    |    |    |    |    |
|-------|--------------|---------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                                          | 2.75  | 1.75  | 2.25  | 2.75  | 3.25  | 3.75  | 4.00   | 4.50   | 5.00   | 5.50   | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.75                                                                                                          | 4.75  | 3.25  | 4.00  | 4.75  | 5.50  | 6.50  | 7.25   | 8.00   | 8.75   | 9.50   | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 4.75                                                                                                          | 7.25  | 4.75  | 6.00  | 7.25  | 8.25  | 9.50  | 10.75  | 11.75  | 13.00  | 14.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 8.00                                                                                                          | 10.75 | 7.25  | 9.00  | 10.75 | 12.50 | 14.25 | 16.00  | 17.75  | 19.75  | 21.50  | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 7.00                                                                                                          | 15.25 | 10.25 | 12.75 | 15.25 | 17.75 | 20.25 | 22.75  | 25.50  | 28.00  | 30.50  | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 11.50                                                                                                         |       | 15.25 | 19.00 | 22.75 | 26.75 | 30.50 | 34.25  | 38.00  | 42.00  | 45.75  | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 17.75                                                                                                         |       | 21.75 | 27.25 | 26.00 | 30.50 | 34.75 | 39.00  | 43.50  | 47.75  | 52.25  | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 23.75                                                                                                         |       | 26.75 | 33.50 | 32.00 | 37.50 | 41.75 | 48.00  | 53.50  | 58.75  | 64.00  | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 37.50                                                                                                         |       |       | 37.50 | 45.25 | 52.50 | 60.25 | 67.75  | 75.25  | 82.75  | 90.25  | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 28.50                                                                                                         |       |       |       | 34.25 | 40.00 | 45.75 | 51.50  | 57.00  | 62.75  | 68.50  | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 41.00                                                                                                         |       |       |       | 46.50 | 54.25 | 62.00 | 69.75  | 77.50  | 85.25  | 93.00  | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 66.00                                                                                                         |       |       |       |       |       | 92.00 | 103.25 | 114.75 | 126.25 | 137.70 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    |       | 10 | 10    | 10 | 10    | 10 |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL WELDED NIPPLES AVAILABLE, PRICED PER APPLICATION



# SEAMLESS NIPPLES

| DIAM. | CLOSE LENGTH | STANDARD STAINLESS STEEL NIPPLES - SMLS - RIGHT HAND THREAD, A312 TP304/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|----------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 0.75                                                                                               | 1.50  | 1.00  | 1.25  | 1.50  | 1.75  | 2.00  | 2.25  | 2.50  | 2.75  | 3.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/4   | 7/8          | 1.50                                                                                               | 2.75  | 1.75  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.50  | 4.75  | 5.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/8   | 1            | 2.50                                                                                               | 3.55  | 2.75  | 3.00  | 3.50  | 4.25  | 4.75  | 5.25  | 6.00  | 6.50  | 7.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/2   | 1-1/8        | 4.00                                                                                               | 5.25  | 3.50  | 4.50  | 5.25  | 6.25  | 7.00  | 8.00  | 8.75  | 9.75  | 10.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/4   | 1-3/8        | 3.25                                                                                               | 7.00  | 4.75  | 6.00  | 7.00  | 8.25  | 9.50  | 10.50 | 11.75 | 13.00 | 14.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1     | 1-1/2        | 5.25                                                                                               |       | 7.00  | 8.75  | 10.50 | 12.25 | 14.00 | 15.75 | 17.50 | 19.25 | 21.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/4 | 1-5/8        | 7.75                                                                                               |       | 9.50  | 11.75 | 11.25 | 13.25 | 15.25 | 17.00 | 19.00 | 20.75 | 22.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/2 | 1-3/4        | 10.00                                                                                              |       | 11.50 | 14.25 | 13.59 | 15.75 | 18.00 | 20.25 | 22.75 | 25.00 | 27.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2     | 2            | 15.25                                                                                              |       |       | 15.25 | 18.25 | 21.25 | 24.25 | 27.50 | 30.50 | 33.50 | 36.50 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2-1/2 | 2-1/2        | 12.00                                                                                              |       |       |       | 15.50 | 17.00 | 19.25 | 21.75 | 24.25 | 26.50 | 29.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3     | 2-5/8        | 16.75                                                                                              |       |       |       | 19.00 | 22.00 | 25.25 | 28.50 | 31.50 | 34.75 | 38.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 4     | 2-7/8        | 25.75                                                                                              |       |       |       |       |       | 36.00 | 40.50 | 45.00 | 49.50 | 54.00 | 0A | 0A | 0A | 0A | 0A | 0A |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

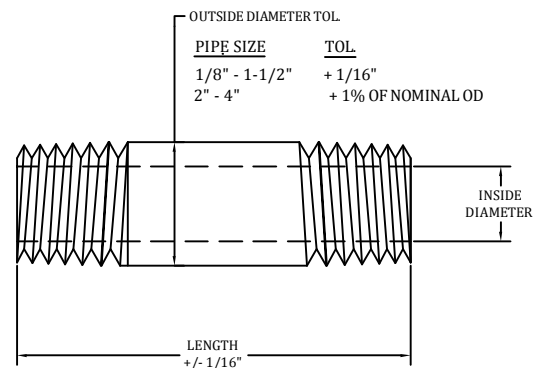
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | EXTRA HEAVY STAINLESS STEEL NIPPLES - SMLS - RIGHT HAND THREAD, A312 TP304/L (APPROX. WEIGHT PER BOX) |       |      |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|-------------------------------------------------------------------------------------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.00                                                                                                  | 2.00  | 1.25 | 1.50  | 2.00  | 2.25  | 2.50  | 3.00  | 3.25  | 3.50  | 4.00  | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.00                                                                                                  | 3.25  | 2.25 | 2.75  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.25  | 6.75  | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 3.00                                                                                                  | 4.50  | 3.00 | 3.75  | 4.50  | 5.50  | 6.25  | 7.00  | 7.75  | 8.50  | 9.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 5.00                                                                                                  | 6.75  | 4.50 | 5.75  | 6.75  | 8.00  | 9.00  | 10.25 | 11.25 | 12.50 | 13.50 | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 4.25                                                                                                  | 9.00  | 6.00 | 7.75  | 9.25  | 10.75 | 12.25 | 13.75 | 15.25 | 17.00 | 18.50 | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 6.75                                                                                                  |       | 9.00 | 11.25 | 13.50 | 15.75 | 18.00 | 20.25 | 22.50 | 25.00 | 27.25 | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 10.25                                                                                                 |       | 12.5 | 15.50 | 15.00 | 17.50 | 20.00 | 22.50 | 25.00 | 27.50 | 30.00 | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 13.25                                                                                                 |       | 15.0 | 19.00 | 18.25 | 21.25 | 24.25 | 27.25 | 30.25 | 33.25 | 36.25 | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 21.00                                                                                                 |       |      | 21.00 | 25.00 | 29.25 | 33.50 | 37.75 | 41.75 | 46.00 | 50.25 | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 16.00                                                                                                 |       |      |       | 19.25 | 22.25 | 25.50 | 28.75 | 32.00 | 35.00 | 38.25 | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 22.50                                                                                                 |       |      |       | 25.75 | 30.00 | 34.25 | 38.50 | 42.75 | 47.00 | 51.25 | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 30.00                                                                                                 |       |      |       |       |       | 41.75 | 47.00 | 52.25 | 57.25 | 62.50 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    | 10    | 10 | 10    | 10 | 10    | 10 |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL SEAMLESS NIPPLES AVAILABLE, PRICED PER APPLICATION



# SEAMLESS NIPPLES

| DIAM. | CLOSE LENGTH | SCH 160 STAINLESS STEEL NIPPLES - SMLS - RIGHT HAND THREAD, A312 TP304/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |        |        |    |    |    |    |    |    |
|-------|--------------|---------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                              | 2.25  | 1.50  | 2.00  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.25   | 4.75   | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.25                                                                                              | 3.75  | 2.50  | 3.25  | 3.75  | 4.50  | 5.00  | 5.75  | 6.50  | 7.00   | 7.75   | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 3.75                                                                                              | 5.50  | 3.75  | 4.50  | 5.50  | 6.25  | 7.25  | 8.25  | 9.00  | 10.00  | 11.00  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 6.00                                                                                              | 8.25  | 5.50  | 6.75  | 8.25  | 9.50  | 10.75 | 12.25 | 13.50 | 15.00  | 16.25  | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 5.55                                                                                              | 12.00 | 8.00  | 10.00 | 12.00 | 14.00 | 16.25 | 18.25 | 20.25 | 22.25  | 24.25  | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 9.00                                                                                              |       | 11.75 | 14.75 | 17.75 | 20.75 | 23.75 | 26.75 | 29.75 | 32.50  | 35.50  | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 12.75                                                                                             |       | 15.75 | 19.50 | 18.75 | 22.00 | 25.00 | 28.25 | 31.50 | 34.50  | 37.75  | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 17.75                                                                                             |       | 20.25 | 25.25 | 24.25 | 28.25 | 32.50 | 36.50 | 40.50 | 44.50  | 48.50  | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 31.00                                                                                             |       |       | 31.00 | 37.25 | 43.50 | 49.75 | 55.75 | 62.00 | 68.25  | 74.50  | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 20.75                                                                                             |       |       |       | 25.00 | 29.25 | 33.25 | 37.50 | 41.75 | 46.00  | 50.00  | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 31.50                                                                                             |       |       |       | 35.75 | 41.75 | 47.75 | 53.75 | 59.75 | 65.75  | 71.50  | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 54.00                                                                                             |       |       |       |       |       | 75.00 | 84.50 | 93.75 | 103.25 | 112.50 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

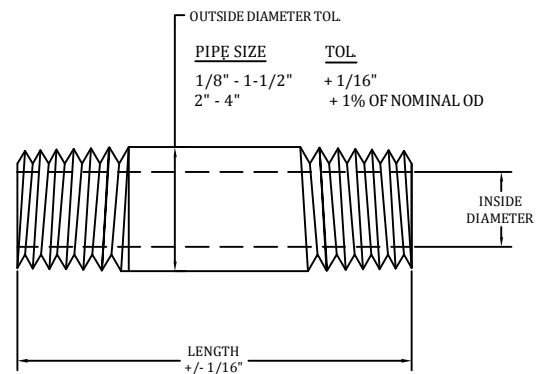
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | DBLE EXTRA HEAVY STAINLESS STEEL NIPPLES - SMLS - RIGHT HAND THREAD, A312 TP304/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |        |        |        |        |    |    |    |    |    |    |
|-------|--------------|------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                                       | 2.75  | 1.75  | 2.25  | 2.75  | 3.25  | 3.75  | 4.00   | 4.50   | 5.00   | 5.50   | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.75                                                                                                       | 4.75  | 3.25  | 4.00  | 4.75  | 5.50  | 6.50  | 7.25   | 8.00   | 8.75   | 9.50   | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 4.75                                                                                                       | 7.25  | 4.75  | 6.00  | 7.25  | 8.25  | 9.50  | 10.75  | 11.75  | 13.00  | 14.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 8.00                                                                                                       | 10.75 | 7.25  | 9.00  | 10.75 | 12.50 | 14.25 | 16.00  | 17.75  | 19.75  | 21.50  | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 7.00                                                                                                       | 15.25 | 10.25 | 12.75 | 15.25 | 17.75 | 20.25 | 22.75  | 25.50  | 28.00  | 30.50  | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 11.50                                                                                                      |       | 15.25 | 19.00 | 22.75 | 26.75 | 30.50 | 34.25  | 38.00  | 42.00  | 45.75  | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 17.75                                                                                                      |       | 21.75 | 27.25 | 26.00 | 30.50 | 34.75 | 39.00  | 43.50  | 47.75  | 52.25  | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 23.75                                                                                                      |       | 26.75 | 33.50 | 32.00 | 37.50 | 41.75 | 48.00  | 53.50  | 58.75  | 64.00  | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 37.50                                                                                                      |       |       | 37.50 | 45.25 | 52.50 | 60.25 | 67.75  | 75.25  | 82.75  | 90.25  | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 28.50                                                                                                      |       |       |       | 34.25 | 40.00 | 45.75 | 51.50  | 57.00  | 62.75  | 68.50  | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 41.00                                                                                                      |       |       |       | 46.50 | 54.25 | 62.00 | 69.75  | 77.50  | 85.25  | 93.00  | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 66.00                                                                                                      |       |       |       |       |       | 92.00 | 103.25 | 114.75 | 126.25 | 137.70 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    |       | 10 | 10    | 10 | 10    | 10 |



MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL SEAMLESS NIPPLES AVAILABLE, PRICED PER APPLICATION

STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS



# WELDED NIPPLES

| DIAM. | CLOSE LENGTH | STANDARD STAINLESS STEEL NIPPLES - WELDED - RIGHT HAND THREAD, A312 TP304/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 0.75                                                                                                 | 1.50  | 1.00  | 1.25  | 1.50  | 1.75  | 2.00  | 2.25  | 2.50  | 2.75  | 3.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/4   | 7/8          | 1.50                                                                                                 | 2.75  | 1.75  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.50  | 4.75  | 5.25  | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/8   | 1            | 2.50                                                                                                 | 3.55  | 2.75  | 3.00  | 3.50  | 4.25  | 4.75  | 5.25  | 6.00  | 6.50  | 7.00  | 0A | 0A | 0A | 0A | 0A | 0A |
| 1/2   | 1-1/8        | 4.00                                                                                                 | 5.25  | 3.50  | 4.50  | 5.25  | 6.25  | 7.00  | 8.00  | 8.75  | 9.75  | 10.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3/4   | 1-3/8        | 3.25                                                                                                 | 7.00  | 4.75  | 6.00  | 7.00  | 8.25  | 9.50  | 10.50 | 11.75 | 13.00 | 14.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1     | 1-1/2        | 5.25                                                                                                 |       | 7.00  | 8.75  | 10.50 | 12.25 | 14.00 | 15.75 | 17.50 | 19.25 | 21.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/4 | 1-5/8        | 7.75                                                                                                 |       | 9.50  | 11.75 | 11.25 | 13.25 | 15.25 | 17.00 | 19.00 | 20.75 | 22.75 | 0A | 0A | 0A | 0A | 0A | 0A |
| 1-1/2 | 1-3/4        | 10.00                                                                                                |       | 11.50 | 14.25 | 13.59 | 15.75 | 18.00 | 20.25 | 22.75 | 25.00 | 27.25 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2     | 2            | 15.25                                                                                                |       |       | 15.25 | 18.25 | 21.25 | 24.25 | 27.50 | 30.50 | 33.50 | 36.50 | 0A | 0A | 0A | 0A | 0A | 0A |
| 2-1/2 | 2-1/2        | 12.00                                                                                                |       |       |       | 15.50 | 17.00 | 19.25 | 21.75 | 24.25 | 26.50 | 29.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 3     | 2-5/8        | 16.75                                                                                                |       |       |       | 19.00 | 22.00 | 25.25 | 28.50 | 31.50 | 34.75 | 38.00 | 0A | 0A | 0A | 0A | 0A | 0A |
| 4     | 2-7/8        | 25.75                                                                                                |       |       |       |       |       | 36.00 | 40.50 | 45.00 | 49.50 | 54.00 | 0A | 0A | 0A | 0A | 0A | 0A |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

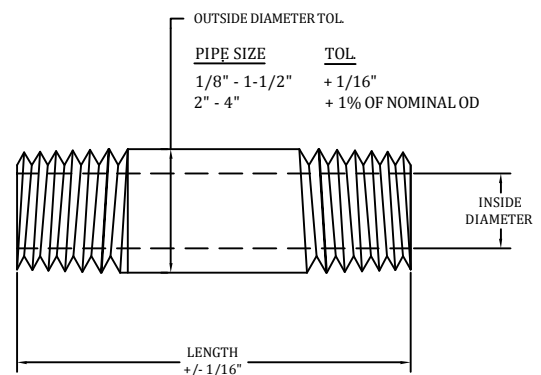
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | EXTRA HEAVY STAINLESS STEEL NIPPLES - WELDED - RIGHT HAND THREAD, A312 TP304/L (APPROX. WEIGHT PER BOX) |       |      |       |       |       |       |       |       |       |       |    |    |    |    |    |    |
|-------|--------------|---------------------------------------------------------------------------------------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.00                                                                                                    | 2.00  | 1.25 | 1.50  | 2.00  | 2.25  | 2.50  | 3.00  | 3.25  | 3.50  | 4.00  | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.00                                                                                                    | 3.25  | 2.25 | 2.75  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.25  | 6.75  | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 3.00                                                                                                    | 4.50  | 3.00 | 3.75  | 4.50  | 5.50  | 6.25  | 7.00  | 7.75  | 8.50  | 9.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 5.00                                                                                                    | 6.75  | 4.50 | 5.75  | 6.75  | 8.00  | 9.00  | 10.25 | 11.25 | 12.50 | 13.50 | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 4.25                                                                                                    | 9.00  | 6.00 | 7.75  | 9.25  | 10.75 | 12.25 | 13.75 | 15.25 | 17.00 | 18.50 | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 6.75                                                                                                    |       | 9.00 | 11.25 | 13.50 | 15.75 | 18.00 | 20.25 | 22.50 | 25.00 | 27.25 | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 10.25                                                                                                   |       | 12.5 | 15.50 | 15.00 | 17.50 | 20.00 | 22.50 | 25.00 | 27.50 | 30.00 | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 13.25                                                                                                   |       | 15.0 | 19.00 | 18.25 | 21.25 | 24.25 | 27.25 | 30.25 | 33.25 | 36.25 | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 21.00                                                                                                   |       |      | 21.00 | 25.00 | 29.25 | 33.50 | 37.75 | 41.75 | 46.00 | 50.25 | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 16.00                                                                                                   |       |      |       | 19.25 | 22.25 | 25.50 | 28.75 | 32.00 | 35.00 | 38.25 | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 22.50                                                                                                   |       |      |       | 25.75 | 30.00 | 34.25 | 38.50 | 42.75 | 47.00 | 51.25 | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 30.00                                                                                                   |       |      |       |       |       | 41.75 | 47.00 | 52.25 | 57.25 | 62.50 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    | 10    | 10 | 10    | 10 | 10    | 10 |



STANDARD NPT TAPPED PIPE THREADS AS PER ANSI B 1.20.1 SPECIFICATIONS

MEET ASTM A733-13 REQUIREMENTS

MEETS ASME B36.10, B36.19 & B16.11 REQUIREMENTS

6" NOMINAL WELDED NIPPLES AVAILABLE, PRICED PER APPLICATION



# WELDED NIPPLES

| DIAM. | CLOSE LENGTH | SCH 160 STAINLESS STEEL NIPPLES - WELDED - RIGHT HAND THREAD, A312 TP304/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |       |       |        |        |    |    |    |    |    |    |
|-------|--------------|-----------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                                | 2.25  | 1.50  | 2.00  | 2.25  | 2.75  | 3.00  | 3.50  | 4.00  | 4.25   | 4.75   | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.25                                                                                                | 3.75  | 2.50  | 3.25  | 3.75  | 4.50  | 5.00  | 5.75  | 6.50  | 7.00   | 7.75   | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 3.75                                                                                                | 5.50  | 3.75  | 4.50  | 5.50  | 6.25  | 7.25  | 8.25  | 9.00  | 10.00  | 11.00  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 6.00                                                                                                | 8.25  | 5.50  | 6.75  | 8.25  | 9.50  | 10.75 | 12.25 | 13.50 | 15.00  | 16.25  | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 5.55                                                                                                | 12.00 | 8.00  | 10.00 | 12.00 | 14.00 | 16.25 | 18.25 | 20.25 | 22.25  | 24.25  | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 9.00                                                                                                |       | 11.75 | 14.75 | 17.75 | 20.75 | 23.75 | 26.75 | 29.75 | 32.50  | 35.50  | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 12.75                                                                                               |       | 15.75 | 19.50 | 18.75 | 22.00 | 25.00 | 28.25 | 31.50 | 34.50  | 37.75  | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 17.75                                                                                               |       | 20.25 | 25.25 | 24.25 | 28.25 | 32.50 | 36.50 | 40.50 | 44.50  | 48.50  | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 31.00                                                                                               |       |       | 31.00 | 37.25 | 43.50 | 49.75 | 55.75 | 62.00 | 68.25  | 74.50  | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 20.75                                                                                               |       |       |       | 25.00 | 29.25 | 33.25 | 37.50 | 41.75 | 46.00  | 50.00  | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 31.50                                                                                               |       |       |       | 35.75 | 41.75 | 47.75 | 53.75 | 59.75 | 65.75  | 71.50  | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 54.00                                                                                               |       |       |       |       |       | 75.00 | 84.50 | 93.75 | 103.25 | 112.50 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

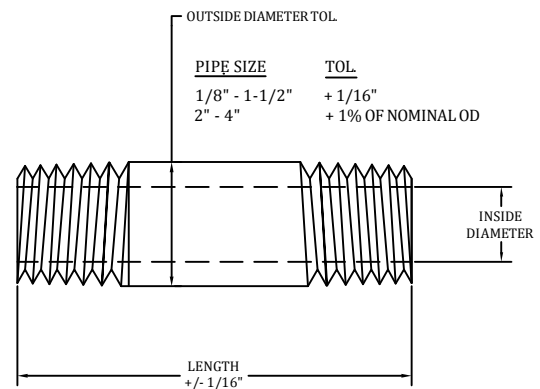
OA= ON APPLICATION

| DIAM. | CLOSE LENGTH | DBLE EXTRA HEAVY STAINLESS STEEL NIPPLES - WELDED - RIGHT HAND THREAD, A312 TP 304/L (APPROX. WEIGHT PER BOX) |       |       |       |       |       |       |        |        |        |        |    |    |    |    |    |    |
|-------|--------------|---------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----|----|----|----|----|----|
|       |              | 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   | 3/4          | 1.25                                                                                                          | 2.75  | 1.75  | 2.25  | 2.75  | 3.25  | 3.75  | 4.00   | 4.50   | 5.00   | 5.50   | OA | OA | OA | OA | OA | OA |
| 1/4   | 7/8          | 2.75                                                                                                          | 4.75  | 3.25  | 4.00  | 4.75  | 5.50  | 6.50  | 7.25   | 8.00   | 8.75   | 9.50   | OA | OA | OA | OA | OA | OA |
| 3/8   | 1            | 4.75                                                                                                          | 7.25  | 4.75  | 6.00  | 7.25  | 8.25  | 9.50  | 10.75  | 11.75  | 13.00  | 14.25  | OA | OA | OA | OA | OA | OA |
| 1/2   | 1-1/8        | 8.00                                                                                                          | 10.75 | 7.25  | 9.00  | 10.75 | 12.50 | 14.25 | 16.00  | 17.75  | 19.75  | 21.50  | OA | OA | OA | OA | OA | OA |
| 3/4   | 1-3/8        | 7.00                                                                                                          | 15.25 | 10.25 | 12.75 | 15.25 | 17.75 | 20.25 | 22.75  | 25.50  | 28.00  | 30.50  | OA | OA | OA | OA | OA | OA |
| 1     | 1-1/2        | 11.50                                                                                                         |       | 15.25 | 19.00 | 22.75 | 26.75 | 30.50 | 34.25  | 38.00  | 42.00  | 45.75  | OA | OA | OA | OA | OA | OA |
| 1-1/4 | 1-5/8        | 17.75                                                                                                         |       | 21.75 | 27.25 | 26.00 | 30.50 | 34.75 | 39.00  | 43.50  | 47.75  | 52.25  | OA | OA | OA | OA | OA | OA |
| 1-1/2 | 1-3/4        | 23.75                                                                                                         |       | 26.75 | 33.50 | 32.00 | 37.50 | 41.75 | 48.00  | 53.50  | 58.75  | 64.00  | OA | OA | OA | OA | OA | OA |
| 2     | 2            | 37.50                                                                                                         |       |       | 37.50 | 45.25 | 52.50 | 60.25 | 67.75  | 75.25  | 82.75  | 90.25  | OA | OA | OA | OA | OA | OA |
| 2-1/2 | 2-1/2        | 28.50                                                                                                         |       |       |       | 34.25 | 40.00 | 45.75 | 51.50  | 57.00  | 62.75  | 68.50  | OA | OA | OA | OA | OA | OA |
| 3     | 2-5/8        | 41.00                                                                                                         |       |       |       | 46.50 | 54.25 | 62.00 | 69.75  | 77.50  | 85.25  | 93.00  | OA | OA | OA | OA | OA | OA |
| 4     | 2-7/8        | 66.00                                                                                                         |       |       |       |       |       | 92.00 | 103.25 | 114.75 | 126.25 | 137.70 | OA | OA | OA | OA | OA | OA |

LENGTHS ARE IN INCHES; WEIGHTS ARE IN POUNDS

OA= ON APPLICATION

| DIAM. | BOX QUANTITIES |       |    |       |    |       |    |       |    |       |    |
|-------|----------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|       | CLOSE          | 1-1/2 | 2  | 2-1/2 | 3  | 3-1/2 | 4  | 4-1/2 | 5  | 5-1/2 | 6  |
| 1/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/4   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/8   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1/2   | 50             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 3/4   | 25             | 50    | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1     | 25             |       | 25 | 25    | 25 | 25    | 25 | 25    | 25 | 25    | 25 |
| 1-1/4 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 1-1/2 | 25             |       | 25 | 25    | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2     | 25             |       |    |       | 20 | 20    | 20 | 20    | 20 | 20    | 20 |
| 2-1/2 | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 3     | 10             |       |    |       | 10 | 10    | 10 | 10    | 10 | 10    | 10 |
| 4     | 10             |       |    |       |    |       | 10 | 10    | 10 | 10    | 10 |



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