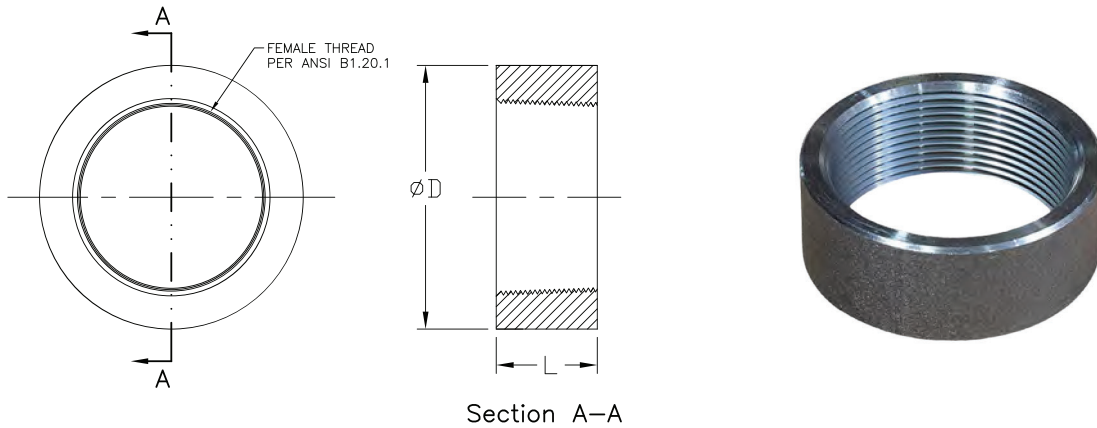


# Fittings & Accessories





## Half Couplings

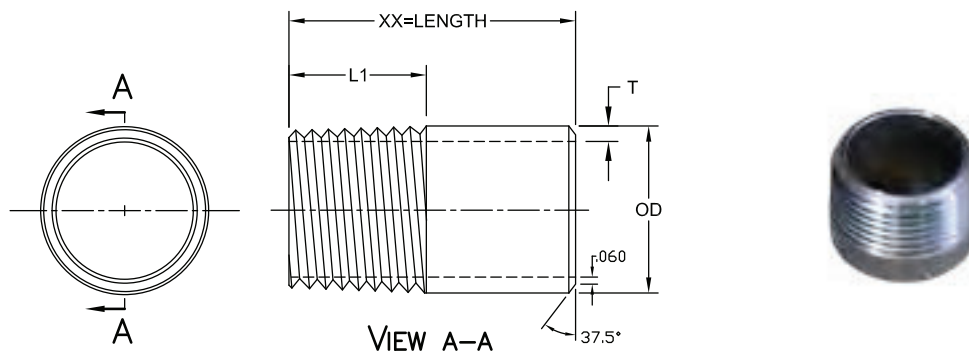
### O.D. TUBE SIZES

| API Part Number | Nominal Pipe Size (inches) | OD    | End to End Length | Threads per Inch |
|-----------------|----------------------------|-------|-------------------|------------------|
| THC0025         | 0.25                       | 0.710 | 0.57              | 18.0             |
| THC0050         | 0.5                        | 1.060 | 0.75              | 14.0             |
| THC0075         | 0.75                       | 1.310 | 0.81              | 14.0             |
| THC0100         | 1                          | 1.570 | 1.00              | 11.5             |
| THC0125         | 1.25                       | 1.900 | 1.00              | 11.5             |
| THC0150         | 1.5                        | 2.200 | 1.00              | 11.5             |
| THC0200         | 2                          | 2.750 | 1.06              | 11.5             |
| THC0250         | 2.5                        | 3.250 | 1.06              | 8.0              |
| THC0300         | 3                          | 4.000 | 1.63              | 8.0              |
| THC0400         | 4                          | 5.000 | 1.75              | 8.0              |
| THC0500         | 5                          | 6.290 | 1.90              | 8.0              |
| THC0600         | 6                          | 7.390 | 2.00              | 8.0              |
| THC0800         | 8                          | 9.610 | 2.63              | 8.0              |

Notes:

- a. Coupling material is mild steel.
- b. Threads conform to ANSI B1.20.1.

**ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.**



## Thread One End Nipples

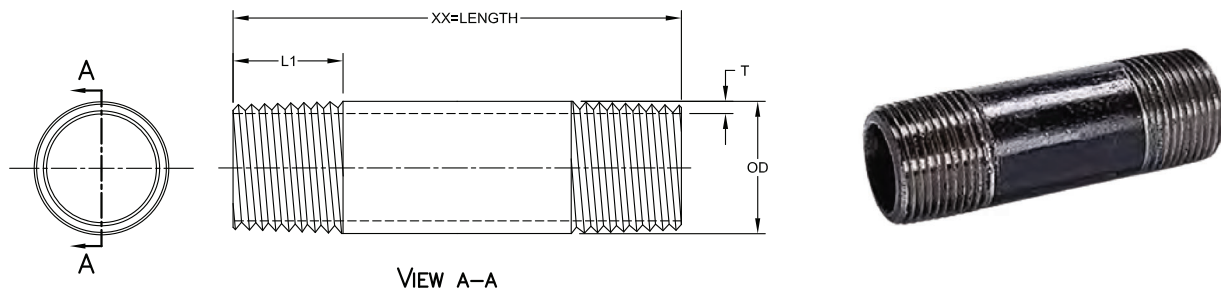
### O.D. TUBE SIZES

| API Part Number | Nominal Pipe Size (inches) | OD    | End to End Length | Threads Per Inch | Min. Thread Length | Min. Wall Thickness |
|-----------------|----------------------------|-------|-------------------|------------------|--------------------|---------------------|
| TOE0075-1.0     | 0.75                       | 1.050 | 1.00              | 14.0             | 0.65               | 0.113               |
| TOE0075-3.0     | 0.75                       | 1.050 | 3.00              | 14.0             | 0.65               | 0.113               |
| TOE0100-1.0     | 1                          | 1.315 | 1.00              | 11.5             | 0.65               | 0.133               |
| TOE0100-3.0     | 1                          | 1.315 | 3.00              | 11.5             | 0.65               | 0.133               |
| TOE0125-1.5     | 1.25                       | 1.660 | 1.50              | 11.5             | 0.93               | 0.140               |
| TOE0125-3.0     | 1.25                       | 1.660 | 3.00              | 11.5             | 0.93               | 0.140               |
| TOE0200-2.0     | 2                          | 2.375 | 2.00              | 11.5             | 1.10               | 0.154               |
| TOE0200-3.0     | 2                          | 2.375 | 3.00              | 11.5             | 1.10               | 0.154               |
| TOE0250-2.0     | 2.5                        | 2.875 | 2.00              | 8.0              | 1.30               | 0.203               |
| TOE0300-3.0     | 3                          | 3.500 | 3.00              | 8.0              | 1.65               | 0.216               |
| TOE0300-4.0     | 3                          | 3.500 | 4.00              | 8.0              | 1.65               | 0.216               |
| TOE0400-4.0     | 4                          | 4.500 | 4.00              | 8.0              | 1.75               | 0.237               |
| TOE0500-4.0     | 5                          | 5.563 | 4.00              | 8.0              | 1.85               | 0.258               |
| TOE0600-4.0     | 6                          | 6.625 | 4.00              | 8.0              | 2.00               | 0.280               |
| TOE0600-4.5     | 6                          | 6.625 | 4.50              | 8.0              | 2.00               | 0.280               |
| TOE0600-6.0     | 6                          | 6.625 | 6.00              | 8.0              | 2.00               | 0.280               |
| TOE0800-4.0     | 8                          | 8.625 | 4.00              | 8.0              | 2.15               | 0.322               |
| TOE0800-6.0     | 8                          | 8.625 | 6.00              | 8.0              | 2.15               | 0.322               |

#### Notes:

- Nipple material is mild steel.
- NPT threads in accordance with ANSI B2.1.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.



## Threaded Both End Nipples

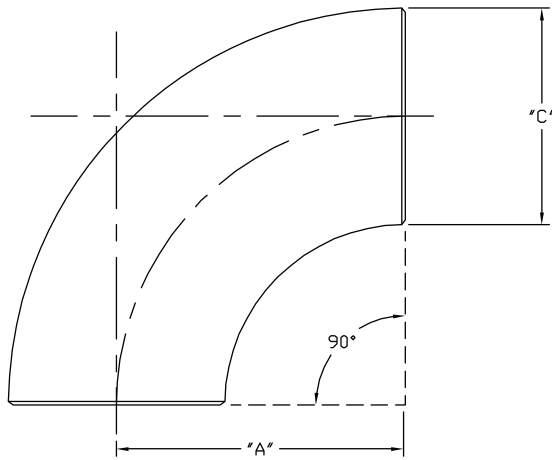
### O.D. TUBE SIZES

| API Part Number | Nominal Pipe Size (inches) | OD    | End to End Length | Threads per Inch | Min. Thread Length | Min. Wall Thickness |
|-----------------|----------------------------|-------|-------------------|------------------|--------------------|---------------------|
| TBE0075-1.38    | 0.75                       | 1.050 | 1.38              | 14.0             | 0.75               | 0.113               |
| TBE0075-2.0     | 0.75                       | 1.050 | 2.00              | 14.0             | 0.75               | 0.113               |
| TBE0075-3.0     | 0.75                       | 1.050 | 3.00              | 14.0             | 0.75               | 0.113               |
| TBE0100-4.0     | 1                          | 1.315 | 4.00              | 11.5             | 1.00               | 0.133               |
| TBE0100-12.0    | 1                          | 1.315 | 12.00             | 11.5             | 1.00               | 0.133               |
| TBE0250-6.0     | 2.5                        | 2.875 | 6.00              | 8.0              | 1.60               | 0.209               |
| TBE0400-8.0     | 4                          | 4.500 | 8.00              | 8.0              | 1.75               | 0.237               |

Notes:

- a. Nipple material is mild steel.
- b. NPT threads in accordance with ANSI B2.1.

**ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.**



LONG RADIUS 90°



## Long Radius 304L Stainless Steel 90° Elbows (LRE Series)

### DIMENSIONS

| API Part Number | NOM. PIPE SIZE | OUTSIDE DIAMETER (O.D) | CENTER TO END (C to E) | INSIDE DIAMETER (I.D) | WALL THICKNESS (T) |
|-----------------|----------------|------------------------|------------------------|-----------------------|--------------------|
| LRE0100-90      | 1              | 1.315                  | 1.500                  | 1.097                 | 0.109              |
| LRE0125-90      | 1.25           | 1.660                  | 1.875                  | 1.442                 | 0.109              |
| LRE0150-90      | 1.5            | 1.900                  | 2.250                  | 1.682                 | 0.109              |
| LRE0200-90      | 2              | 2.375                  | 3.000                  | 2.157                 | 0.109              |
| LRE0250-90      | 2.5            | 2.875                  | 3.750                  | 2.635                 | 0.120              |
| LRE0300-90      | 3              | 3.500                  | 4.500                  | 3.260                 | 0.120              |
| LRE0400-90      | 4              | 4.500                  | 6.000                  | 4.260                 | 0.120              |
| LRE0500-90      | 5              | 5.563                  | 7.500                  | 5.295                 | 0.134              |
| LRE0600-90      | 6              | 6.625                  | 9.000                  | 6.357                 | 0.134              |
| LRE0800-90      | 8              | 8.625                  | 12.000                 | 8.329                 | 0.148              |
| LRE1000-90      | 10             | 10.750                 | 15.000                 | 10.420                | 0.165              |
| LRE1200-90      | 12             | 12.750                 | 18.000                 | 12.390                | 0.180              |

- ANSI B16.9
- MSS SP-43
- Schedule 10S

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.

### MATERIALS

- ASTM A403
- WP304
- WP304H
- WP304L
- WP316
- WP316L



## Gaskets

API stocks a variety of sizes of full face and ring gaskets in green Non-Asbestos (GNA Series) and SBR (GRR Series) materials.

| Nominal Pipe Size I.D. (old style) | ANSI Size I.D. (newstyle) | Full Face Gaskets (125/150#) |       |        |          | Full Face Gaskets (250/300#) |       |         |           | Ring Gaskets  |               |
|------------------------------------|---------------------------|------------------------------|-------|--------|----------|------------------------------|-------|---------|-----------|---------------|---------------|
|                                    |                           | O.D                          | # B.H | Ø B.H. | Ø B.H.C. | O.D                          | # B.H | Ø B. H. | Ø B.H. C. | 125/150# (OD) | 250/300# (OD) |
| 0.50                               | 0.878                     | 3.50                         | 4     | 0.625  | 2.375    | 3.750                        | 4     | 0.625   | 2.625     | 1.875         | 2.125         |
| 0.75                               | 1.062                     | 3.88                         | 4     | 0.625  | 2.750    | 4.625                        | 4     | 0.750   | 3.250     | 2.250         | 2.625         |
| 1                                  | 1.313                     | 4.25                         | 4     | 0.625  | 3.125    | 4.875                        | 4     | 0.750   | 3.500     | 2.625         | 2.875         |
| 1.25                               | 1.683                     | 4.63                         | 4     | 0.625  | 3.500    | 5.250                        | 4     | 0.750   | 3.875     | 3.000         | 3.250         |
| 1.50                               | 1.943                     | 5.00                         | 4     | 0.625  | 3.875    | 6.125                        | 4     | 0.875   | 4.500     | 3.375         | 3.750         |
| 2                                  | 2.375                     | 6.00                         | 4     | 0.750  | 4.750    | 6.500                        | 8     | 0.875   | 5.000     | 4.125         | 4.375         |
| 2.5                                | 2.875                     | 7.00                         | 4     | 0.750  | 5.500    | 7.500                        | 8     | 0.875   | 5.875     | 4.875         | 5.125         |
| 3                                  | 3.500                     | 7.50                         | 4     | 0.750  | 6.000    | 8.250                        | 8     | 0.875   | 6.625     | 5.375         | 5.875         |
| 3.50                               | 4.000                     | 8.50                         | 8     | 0.750  | 7.000    | 9.000                        | 8     | 0.875   | 7.250     | 6.375         | 6.500         |
| 4                                  | 4.500                     | 9.00                         | 8     | 0.750  | 7.500    | 10.00                        | 8     | 0.875   | 7.875     | 6.875         | 7.125         |
| 5                                  | 5.563                     | 10.00                        | 8     | 0.875  | 8.500    | 11.00                        | 8     | 0.875   | 9.250     | 7.750         | 8.500         |
| 6                                  | 6.625                     | 11.00                        | 8     | 0.875  | 9.500    | 12.50                        | 12    | 0.875   | 10.63     | 8.750         | 9.875         |
| 8                                  | 8.650                     | 13.50                        | 8     | 0.875  | 11.75    | 15.00                        | 12    | 1.000   | 13.00     | 11.000        | 12.125        |
| 10                                 | 10.750                    | 16.00                        | 12    | 1.000  | 14.25    | 17.50                        | 16    | 1.125   | 15.25     | 13.380        | 14.250        |
| 12                                 | 12.750                    | 19.00                        | 12    | 1.000  | 17.00    | 20.50                        | 16    | 1.250   | 17.75     | 16.130        | 16.625        |
| 14                                 | 14.000                    | 21.00                        | 12    | 1.125  | 18.75    | 23.00                        | 20    | 1.250   | 20.25     | 17.750        | 19.125        |
| 16                                 | 16.000                    | 23.50                        | 16    | 1.125  | 21.25    | 25.50                        | 20    | 1.375   | 22.50     | 20.500        | 21.250        |
| 18                                 | 18.000                    | 25.00                        | 16    | 1.250  | 22.75    | 28.00                        | 24    | 1.375   | 24.75     | 21.630        | 23.500        |
| 20                                 | 20.000                    | 27.50                        | 20    | 1.250  | 25.00    | 30.50                        | 24    | 1.375   | 27.00     | 23.880        | 25.750        |
| 22                                 | 22.000                    | 29.50                        | 20    | 1.375  | 27.25    | 33.00                        | 24    | 1.625   | 29.25     | 26.000        | 27.625        |
| 24                                 | 24.000                    | 32.00                        | 20    | 1.375  | 29.50    | 36.00                        | 24    | 1.625   | 32.00     | 28.250        | 30.500        |
| 26                                 | 26.000                    | 34.75                        | 24    | 1.375  | 31.75    | 38.25                        | 28    | 1.750   | 34.50     | 30.500        | 32.875        |
| 28                                 | 28.000                    | 36.50                        | 28    | 1.375  | 34.00    | 40.75                        | 28    | 1.750   | 37.00     | 32.750        | 35.375        |
| 30                                 | 30.000                    | 38.75                        | 28    | 1.375  | 36.00    | 43.00                        | 28    | 1.875   | 39.50     | 34.750        | 37.500        |
| 32                                 | 32.000                    | 41.75                        | 28    | 1.625  | 38.50    | 45.25                        | 28    | 2.000   | 41.50     | 38.000        | 39.625        |
| 34                                 | 34.000                    | 43.75                        | 32    | 1.625  | 40.50    | 47.50                        | 28    | 2.000   | 43.50     | 39.000        | 41.625        |
| 36                                 | 36.000                    | 46.00                        | 32    | 1.625  | 42.75    | 50.00                        | 32    | 2.125   | 46.00     | 41.250        | 44.000        |
| 38                                 | 38.000                    | 48.75                        | 36    | 1.625  | 45.25    | 52.25                        | 32    | 2.250   | 48.00     | 43.630        | 46.125        |
| 40                                 | 40.000                    | 50.75                        | 36    | 1.625  | 47.25    | 54.25                        | 36    | 2.250   | 50.25     | 45.630        | 48.750        |
| 42                                 | 42.000                    | 53.00                        | 36    | 1.625  | 49.50    | 57.00                        | 36    | 2.250   | 52.75     | 48.000        | 50.750        |
| 44                                 | 44.000                    | 55.25                        | 40    | 1.625  | 51.75    | 59.25                        | 36    | 2.250   | 55.00     | 50.130        | 53.000        |
| 46                                 | 46.000                    | 57.25                        | 40    | 1.625  | 53.75    | 61.50                        | 40    | 2.250   | 57.75     | 52.130        | 55.250        |
| 48                                 | 48.000                    | 59.50                        | 44    | 1.625  | 56.00    | 65.00                        | 40    | 2.250   | 60.75     | 54.500        | 58.500        |

Note:

- Dimensions per ANSI B 16.5 and AWWA C110 standards for pipe flanges and gaskets.
- Dimensional tolerances (unless otherwise stated): Up to 1" @ +/- .0325"; 1.25" thru 12" @ +/- .0625"; 14" thru 24" @ +/- .0975"; 26" and above @ +/- .25".
- Standard gasket material is SBR (Red Rubber) or Non-Asbestos (Green), but Neoprene, EPDM, Buna N, Silicone, Viton Teflon and other compounds are readily available.
- Standard thicknesses are 1/16" and 1/8", but other thickness are available.
- Sizes above 24" available upon request (minimum order quantity may apply).

**ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.**

# Gaskets - Basic Compounds & Properties

|                              |             |                                                    |                                                                                                                       | General Chemical Resistance                                                                 |                                                                                            |
|------------------------------|-------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Common Name (s)              | Designation | Composition                                        | General Properties                                                                                                    | Resistance to                                                                               | Attacked by:                                                                               |
| Neoprene                     | CR          | Chloroprene                                        | Good weathering resistance and flame retarding. Good resistance to petroleum based fluids.                            | Moderate chemicals and acids, ozone, oils, fats, greases and many solvents.                 | Strong oxidizing acids, esters, ketones, chlorinated, aromatic and nitro hydrocarbons.     |
| EPDM                         | EPM         | Ethylene-propylene-diene-molimers                  | Excellent ozone, chemical and aging resistance. Excellent heat resistance. Poor resistance to petroleum based fluids. | Heat, ozone, strong oxidizing chemicals and acetone.                                        | Petroleum based fluids, animal fats, solvents and greases.                                 |
| Buna-N                       | NBR         | Nitrile-butadiene                                  | Excellent resistance to petroleum based fluids. Good physical properties.                                             | Many hydrocarbons, fats, oils, hydraulic fluids and chemicals.                              | Ozone (except PVC blends), ketones, esters, aldehydes, chlorinated and nitro hydrocarbons. |
| Silicones                    | Q, Si       | Polysiloxane                                       | Excellent high and low temperature properties. Good oil resistance. FDA compound. Good physical properties.           | Moderate chemicals and acids, ozone, oils, fats, greases and concentrated sodium hydroxide. | Many solvents, high aromatic hydrocarbons, concentrated acids, dilute sodium hydroxide.    |
| SBR (Red Rubber)             | SBR         | Styrene- butadiene                                 | Good physical properties and abrasion resistance. Poor resistance to petroleum based fluids.                          | Most moderate chemicals wet or dry, organic acids, alcohols, ketones and aldehydes.         | Ozone, strong acids, animal fats, oils, greases and most hydrocarbons.                     |
| Viton (Flouro-elastomer)     | FPM         | Hexafluoropropylene-vinylidene flouride            | Excellent oil and air resistance at low and high temperatures. Excellent chemical resistance.                         | All aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.     | Ketones, low molecular weight esters and nitro containing compounds                        |
| Teflon® (Flourocarbon resin) | TFE         | Polytetra-flouroethylene                           | Excellent chemical and solvent resistance. Resistant to very high temperatures.                                       | Inert to most chemicals, smooth anti-adhesive surface. Easily cleaned.                      | Acetates, NA-K and some amino acids.                                                       |
| Non-Asbestos                 | NA          | Aramid fiber and synthetic fibers bonded with NBR. | General service water & oil gasket. Pressures to 1595 psi, Temp to 750o F.                                            | Mild acids, Alkalis, Oils, general chemicals & petroleum derivatives and steam.             | Consult customer service for chemical compatibility.                                       |

## Notes:

- The chemical guidelines in this table are offered as a general indication of the compatibility of various materials with chemicals and fluids listed.
- When in doubt a sample of the compound should always be tested with the particular chemical it is to handle.
- API stocks Non-Asbestos (GNA Series) and SBR (GRR Series) gaskets, but others are available upon request (minimum order quantity may apply).

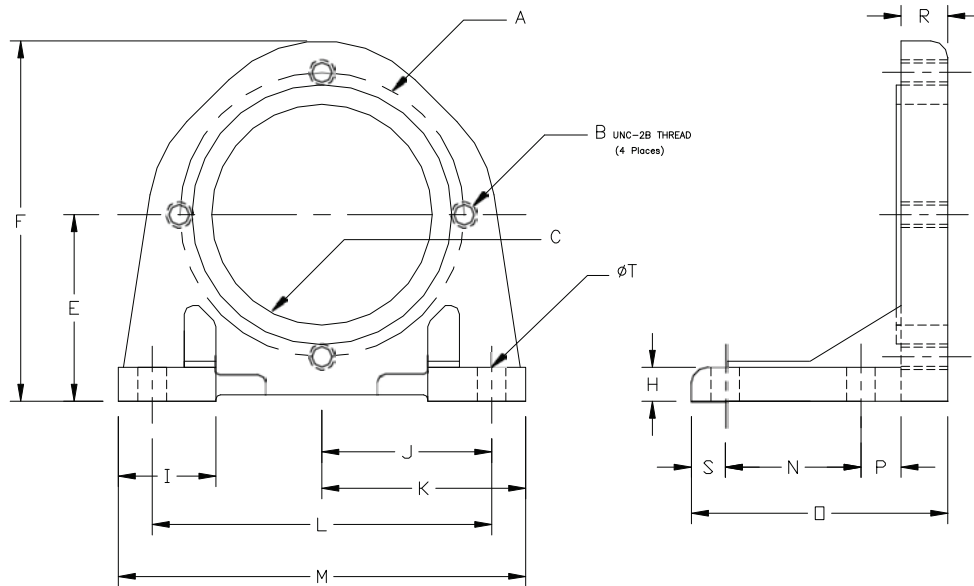
## PART NUMBER STRUCTURE

| Part Number Section | Options                                          |
|---------------------|--------------------------------------------------|
| Material            | GNA = Green Non-Asbestos<br>GRR = Red Rubber     |
| Size                | XXXX = Size in inches going out 2 decimal places |
| Type                | FF = Full Face<br>R = Ring                       |
| Thickness           | XXX = Size in inches going out 3 decimal paces   |

DC# 0524

1-800-523-0852

www.apiint.com



## Hydraulic Motor Pump Brackets

### DIMENSIONS

| API Part Number | A    | B      | C    | E    | F    | H    | I    | J    | K    | L    | M     | N    | O    | P    | R    | S    | T    | Weight (lbs) |
|-----------------|------|--------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|--------------|
| HB-A            | 4.19 | .38-16 | 3.25 | 2.75 | 5.31 | 0.50 | 1.44 | 2.50 | 3.00 | 5.00 | 6.00  | 2.00 | 3.78 | 0.59 | 0.69 | 0.50 | 0.43 | 4            |
| HB-B            | 5.75 | .50-13 | 4.00 | 3.63 | 7.12 | 0.50 | 1.44 | 2.88 | 3.38 | 5.75 | 6.75  | 2.00 | 3.77 | 0.59 | 0.69 | 0.50 | 0.43 | 5            |
| HB-C            | 7.13 | .62-11 | 5.00 | 4.31 | 8.50 | 0.62 | 2.00 | 4.63 | 5.22 | 9.25 | 10.44 | 3.00 | 5.18 | 0.75 | 0.75 | 0.68 | 0.69 | 12           |

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.

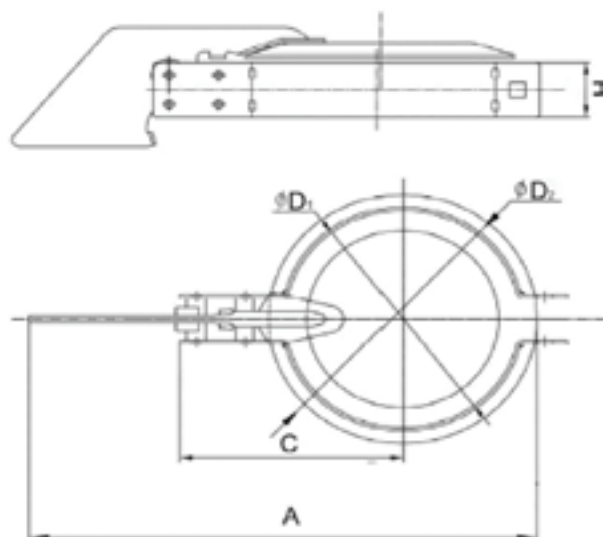
### MATERIALS

| Part | Material  |
|------|-----------|
| Body | Cast Iron |



#### Notes:

SAE-J744, 3 sizes for the same specification for Gear Pump, Vickers Piston Pump, or Vane Pump & Motors.



## Exhaust Rain Caps

### DIMENSIONS

| API Part Number | Size<br>Rain Cap ID/OD<br>of pipe (Rounded) | "A"<br>Overall Length/<br>(Required Clearance) | "C"<br>Center of<br>Cap to Pivot | "H"<br>Clamp<br>Height | "D1"<br>Rain Cap ID/<br>OD of pipe | "D2"<br>OD of Cap<br>Cover |
|-----------------|---------------------------------------------|------------------------------------------------|----------------------------------|------------------------|------------------------------------|----------------------------|
| RC0100-x        | 1                                           | 5.63                                           | 2.91                             | 1.26                   | 1.14                               | 1.57                       |
| RC0150-x        | 1.5                                         | 5.98                                           | 2.95                             | 1.26                   | 1.50                               | 1.65                       |
| RC0200-x        | 2                                           | 6.69                                           | 3.19                             | 1.26                   | 2.03                               | 2.52                       |
| RC0250-x        | 2.5                                         | 7.17                                           | 3.46                             | 1.26                   | 2.52                               | 2.99                       |
| RC0300-x        | 3                                           | 7.68                                           | 3.74                             | 1.26                   | 3.01                               | 3.50                       |
| RC0350-x        | 3.5                                         | 8.19                                           | 3.94                             | 1.26                   | 3.52                               | 4.02                       |
| RC0400-x        | 4                                           | 9.61                                           | 4.27                             | 1.26                   | 4.02                               | 4.72                       |
| RC0450-x        | 4.5                                         | 10.43                                          | 4.61                             | 1.26                   | 4.50                               | 5.31                       |
| RC0500-x        | 5                                           | 10.81                                          | 4.78                             | 1.26                   | 5.02                               | 5.75                       |
| RC0550-x        | 5.5                                         | 11.30                                          | 5.20                             | 1.26                   | 5.63                               | 6.26                       |
| RC0600-x        | 6                                           | 11.61                                          | 5.31                             | 1.26                   | 5.98                               | 6.69                       |
| RC0650-x        | 6.5                                         | 12.36                                          | 5.71                             | 1.26                   | 6.61                               | 7.64                       |
| RC0800-x        | 8                                           | 13.78                                          | 6.30                             | 1.26                   | 7.99                               | 8.66                       |

"x" = **G** (Electro-Galvanized/Zink-Plated Q235 Steel)  
**S** (304 Stainless Steel)

### TEMPERATURE RATINGS

|                                               |         |
|-----------------------------------------------|---------|
| Electro-Galvanized/<br>Zink-Plated Q235 Steel | 750° F  |
| 304 Stainless Steel                           | 1100° F |

### APPLICATIONS

- Used to prevent dirt, dust, rain and other debris from falling into exposed stack pipes

#### Notes:

- Rain Caps rated for 2,000,000 cycles.
- Listed "SIZE" correlates to OD of pipe, **NOT** NPS