

# Cylinder Connections

## Stainless Steel Compressed Gas Fittings and Assemblies



### Value Proposition:

Parker Hannifin Corporation's Veriflo Division, is committed to manufacturing and supplying high integrity CGA and ultra high integrity (DISS) connections to meet your instrument, analyzer and process high purity/specialty cylinder gas management needs.

The Veriflo cylinder connection offering includes:

- Nipples • Nuts • Gaskets
- Adapters • Caps • Plugs
- Assemblies • Seal Enhancers
- Flexible Pigtails • Torque Wrenches

The technical expertise involved in the development of each component ensures integrity of each connection.



### Contact Information:

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 Mobile App: m.parker.com/veriflo

### Product Features:

- 100% Visual inspection of critical surfaces
- Cleaned and packaged for O<sub>2</sub> service
- High and Ultra High integrity components
- Available in stainless steel
- Gas Tight connections available
- Patented Seal Enhancer improves connection integrity
- Gaskets available in PCTFE, Aluminum and Nickel
- Express Service Program available noted in *green italic print*



ENGINEERING YOUR SUCCESS.

# Table of Contents:

|                                                                             |    |
|-----------------------------------------------------------------------------|----|
| <b>53 Series:</b> Valve Outlet Plugs and Caps .....                         | 3  |
| <b>54 Series:</b> Inlet Connections .....                                   | 4  |
| <b>56 Series:</b> Inlet Connection Components (Nipple, Nuts & Washers)..... | 5  |
| <b>57 Series:</b> Outlet Adapters, Blank Caps and Plugs.....                | 8  |
| <b>58 Series:</b> Pigtail Connections .....                                 | 10 |
| <b>Seal Enhancers:</b> .....                                                | 11 |
| <b>Gaskets and Washers:</b> .....                                           | 11 |
| <b>Flexible Pigtails:</b> .....                                             | 12 |
| <b>Torque Wrenches:</b> 77 Series .....                                     | 12 |
| <b>Materials of Construction</b> .....                                      | 12 |
| <b>Gas Connection Assignment Table</b> .....                                | 13 |

## Specifications:

| High Integrity                                                                                                                                                |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <ul style="list-style-type: none"> <li>Cleaned for O<sub>2</sub> service</li> <li>100% visual inspection of critical surfaces</li> <li>Poly-bagged</li> </ul> |                          |
|                                                                                                                                                               |                          |
| Materials of Construction                                                                                                                                     |                          |
| <b>Wetted</b>                                                                                                                                                 |                          |
| Nipples                                                                                                                                                       | 316/316L Stainless Steel |
| Outlet Adapters                                                                                                                                               | 316L Stainless Steel     |
| Cylinder Valve Outlet Caps                                                                                                                                    | Stainless Steel          |
| Washer                                                                                                                                                        | PCTFE/PTFE               |
| <b>Non-wetted</b>                                                                                                                                             |                          |
| Nuts                                                                                                                                                          | 303/316 Stainless Steel  |

| Ultra High Integrity (DISS)                                                                                                                                                                                                                         |                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Cleaned for Ultra High Purity service</li> <li>Electropolished internally</li> <li>9 Ra internal surface finish</li> <li>100% visual inspection of critical surfaces</li> <li>Clean room packaged</li> </ul> |                                                                     |
| Materials of Construction                                                                                                                                                                                                                           |                                                                     |
| <b>Wetted</b>                                                                                                                                                                                                                                       |                                                                     |
| Nipples                                                                                                                                                                                                                                             | SEMI F20 316L Stainless Steel                                       |
| Outlet Adapters                                                                                                                                                                                                                                     | 316L Stainless Steel                                                |
| Cylinder Valve Outlet Caps                                                                                                                                                                                                                          | Stainless Steel                                                     |
| Gaskets                                                                                                                                                                                                                                             | Nickel (Std)<br><i>Consult factory for other materials</i>          |
| <b>Non-wetted</b>                                                                                                                                                                                                                                   |                                                                     |
| Nuts                                                                                                                                                                                                                                                | 303 Stainless Steel with silver plated threads and bearing surfaces |

All dimensions are in inches, are for reference only, and are subject to change.  
For additional information on materials of construction, functional performance and operating conditions, please contact factory.

For an explanation of the **Express Service Program (ESP)** please reference literature 25000275 at [www.parker.com/veriflo](http://www.parker.com/veriflo)

# CGA Valve Outlet Plugs & Caps

## (Includes Ring and Chain)

### 53 Series

High Integrity for high purity-specialty gases in Instrument/Analyzer and Process Applications

| CGA Number           | Model Number | Part Number | Material                               | F Hex Flat | S Hex Flat | H Length | Gas-Tight* |
|----------------------|--------------|-------------|----------------------------------------|------------|------------|----------|------------|
| 320, 326, 346        | 53-30C-3PR   | 44800681    | Stainless Steel with Polyethylene disc | 1"         | —          | 0.54"    | No         |
| 330                  | 53-33C-3PR   | 44800331    | Stainless Steel with Polyethylene disc | 1"         | —          | 0.54"    | No         |
| 350                  | 53-350GTC-3R | 44800430    | Stainless Steel                        | 1-1/8"     | —          | 0.82"    | Yes        |
| 510                  | 53-510P-3TR  | 44800584    | Stainless Steel with PTFE O-Ring       | —          | 3/8"       | 1"       | Yes        |
| 580                  | 53-580P-3TR  | 44800218    | Stainless Steel with PTFE O-Ring       | —          | 3/8"       | 1"       | Yes        |
| 590                  | 53-590P-3TR  | 44803061    | Stainless Steel with PTFE O-Ring       | —          | 3/8"       | 1"       | Yes        |
| 660                  | 53-660C-3PR  | 44800073    | Stainless Steel with Polyethylene disc | 1-1/4"     | —          | 0.54"    | No         |
| 670, 677, 678 or 679 | 53-67C-3PR   | 44800137    | Stainless Steel with Polyethylene disc | 1-1/4"     | —          | 0.54"    | No         |
| 705                  | 53-705C-3PR  | 44803739    | Stainless Steel with Polyethylene disc | 1-3/8"     | —          | 0.54"    | No         |

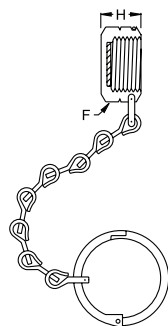
### 53 Series

Ultra High Integrity for high purity-specialty gases in Microelectronics and other UHP Process Applications

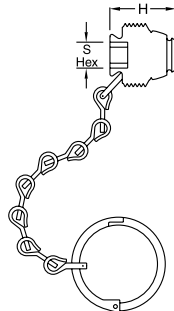
| CGA/ DISS Number                              | Model Number | Part Number | Material                           | F Hex Flat | S Hex Flat | H Length | Gas-Tight* |
|-----------------------------------------------|--------------|-------------|------------------------------------|------------|------------|----------|------------|
| 632, 634, 636, 638, 640 or 642                | 53-63GTC-2NR | 44800016    | Stainless Steel with Nickel gasket | 1-1/4"     | —          | 0.98"    | Yes        |
| 712, 714, 716, 718, 720, 722, 724, 726 or 728 | 53-71GTC-2NR | 44800032    | Stainless Steel with Nickel gasket | 1-3/8"     | —          | 0.98"    | Yes        |

\* Components not rated Gas-Tight are intended only to keep valve outlets clean and provide protection to threads. They must not be relied on to contain pressure if the valve leaks or is inadvertently opened.

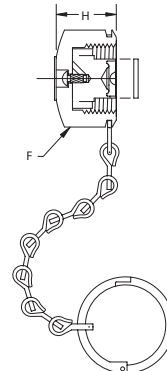
**CGA Cap**  
320-350 & 660-705



**CGA Plug**  
510, 580 & 590



**UHP CGA Plug**  
632-642 & 712-728

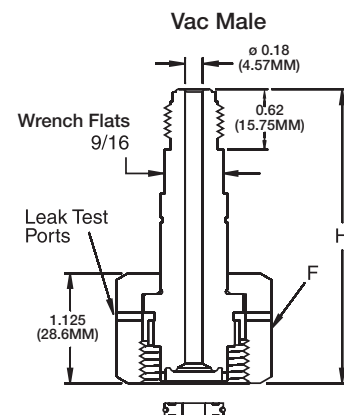
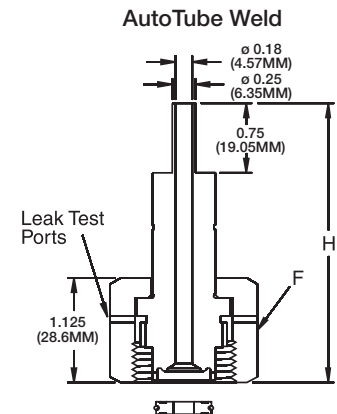


# CGA Inlet Connections (Includes Nipple, Nut, and Gasket)

## 54 Series

Ultra High Integrity assemblies for high purity-specialty gases in Microelectronics and other UHP Process Applications

| CGA/<br>DISS<br>Number | End Connection      | H<br>Overall<br>Length | Model<br>Number | Part<br>Number | F<br>Flat<br>Hex |
|------------------------|---------------------|------------------------|-----------------|----------------|------------------|
| 632                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-632-4TW2-N   | 44800092       | 1-1/4"           |
|                        | 1/4" Vac Male       | 3"                     | 54-632-4VM2-N   | 44800146       |                  |
| 634                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-634-4TW2-N   | 44800049       | 1-1/4"           |
|                        | 1/4" Vac Male       | 3"                     | 54-634-4VM2-N   | 44800217       |                  |
| 636                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-636-4TW2-N   | 44800299       | 1-1/4"           |
|                        | 1/4" Vac Male       | 3"                     | 54-636-4VM2-N   | 44800336       |                  |
| 638                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-638-4TW2-N   | 44800136       | 1-1/4"           |
|                        | 1/4" Vac Male       | 3"                     | 54-638-4VM2-N   | 44800272       |                  |
| 640                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-640-4TW2-N   | 44800084       | 1-1/4"           |
|                        | 1/4" Vac Male       | 3"                     | 54-640-4VM2-N   | 44800039       |                  |
| 642                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-642-4TW2-N   | 44800054       | 1-1/4"           |
|                        | 1/4" Vac Male       | 3"                     | 54-642-4VM2-N   | 44800161       |                  |
| 712                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-712-4TW2-N   | 44800186       | 1-3/8"           |
|                        | 1/4" Vac Male       | 3"                     | 54-712-4VM2-N   | 44800193       |                  |
| 714                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-714-4TW2-N   | 44800350       | 1-3/8"           |
|                        | 1/4" Vac Male       | 3"                     | 54-714-4VM2-N   | 44800499       |                  |
| 716                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-716-4TW2-N   | 44800038       | 1-3/8"           |
|                        | 1/4" Vac Male       | 3"                     | 54-716-4VM2-N   | 44800155       |                  |
| 718                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-718-4TW2-N   | 44800041       | 1-3/8"           |
|                        | 1/4" Vac Male       | 3"                     | 54-718-4VM2-N   | 44800098       |                  |
| 720                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-720-4TW2-N   | 44800144       | 1-3/8"           |
|                        | 1/4" Vac Male       | 3"                     | 54-720-4VM2-N   | 44800065       |                  |
| 722                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-722-4TW2-N   | 44801163       | 1-3/8"           |
|                        | 1/4" Vac Male       | 3"                     | 54-722-4VM2-N   | 44803517       |                  |
| 724                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-724-4TW2-N   | 44800201       | 1-3/8"           |
|                        | 1/4" Vac Male       | 3"                     | 54-724-4VM2-N   | 44800205       |                  |
| 726                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-726-4TW2-N   | 44800417       | 1-3/8"           |
|                        | 1/4" Vac Male       | 3"                     | 54-726-4VM2-N   | 44803182       |                  |
| 728                    | 1/4" Auto Tube Weld | 2-1/2"                 | 54-728-4TW2-N   | 44800751       | 1-3/8"           |
|                        | 1/4" Vac Male       | 3"                     | 54-728-4VM2-N   | 44800368       |                  |



All Inlet Connections include nickel gasket 50-63-NI.  
Nickel gasket is available in a 25 pack under part number 44803595.

# CGA Inlet Connection Components

## Nipples, Nuts, and Washers

### 56 Series

High Integrity for high purity-specialty gases in Instrument/Analyzer and Process Applications

| CGA Number | End Connection      | H Overall Length | Nipple Model Number | Nipple Part Number | Nut Model Number | Nut Part Number | F1 Flat Hex | Washer Model Number** | Washer Part Number* |
|------------|---------------------|------------------|---------------------|--------------------|------------------|-----------------|-------------|-----------------------|---------------------|
| 170        | 1/4" Auto Tube Weld | 1-1/4"           | 56-170-4TW2-P       | 44803332           | 55-170-3         | 44800264        | 11/16"      | 50-170-T              | 44803474            |
|            | 1/8" NPT Male       | 1-1/4"           | 56-170-2M2-20       | 44800891           |                  |                 |             | 50-170-K              | 44803475            |
| 180        | 1/4" Auto Tube Weld | 1-1/4"           | 56-180-4TW2-P       | 44803336           | 55-180-3         | 44800139        | 3/4"        | 50-180-T              | 44803476            |
|            | 1/8" NPT Male       | 1-3/4"           | 56-180-2M2-28       | 44800162           |                  |                 |             | 50-180-K              | 44803547            |
| 290        | 1/4" Auto Tube Weld | 2-5/8"           | 56-290-4TW2-P       | 44803733           | 55-290-3         | 44800726        | 1"          | N/A                   | N/A                 |
|            | 1/4" NPT Male       | 2-1/4"           | 56-290-4M2-36       | 44800724           |                  |                 |             |                       |                     |
| 296        | 1/4" Auto Tube Weld | 2-5/8"           | 56-296-4TW2-P       | 44800661           | 55-296-3         | 44800333        | 7/8"        | N/A                   | N/A                 |
|            | 1/4" Vac Male       | 2-3/4"           | 56-296-4VM2-P       | 44803605           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 3-1/2"           | 56-296-4M2-56       | 44800385           |                  |                 |             |                       |                     |
| 320        | 1/4" Auto Tube Weld | 1-3/4"           | 56-32-4TW2-P        | 44800083           | 55-320-3         | 44800219        | 1-1/8"      | 50-320-T              | 44803477            |
|            | 1/4" Vac Male       | 1-3/4"           | 56-32-4VM2-P        | 44800199           |                  |                 |             | 50-320-K              | 44803478            |
|            | 1/4" Auto Tube Weld | 2-1/2"           | 56-32-4TW2-40-P     | 44803734           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 2-1/2"           | 56-32-4M2-40        | 44800322           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 4"               | 56-32-4M2-64        | 44803728           |                  |                 |             |                       |                     |
| 326        | 1/4" Auto Tube Weld | 2-1/4"           | 56-326-4TW2-P       | 44800307           | 55-326-3         | 44800306        | 1-1/8"      | N/A                   | See Seal Enhancers  |
|            | 1/4" Vac Male       | 2-1/4"           | 56-326-4VM2-P       | 44800493           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 3"               | 56-326-4M2-48       | 44800343           |                  |                 |             |                       |                     |
| 330        | 1/4" Auto Tube Weld | 1-3/4"           | 56-32-4TW2-P        | 44800083           | 55-330-3         | 44800108        | 1-1/8"      | 50-320-T              | 44803477            |
|            | 1/4" Vac Male       | 1-3/4"           | 56-32-4VM2-P        | 44800199           |                  |                 |             | 50-320-K              | 44803478            |
|            | 1/4" Auto Tube Weld | 2-1/2"           | 56-32-4TW2-40-P     | 44803734           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 2-1/2"           | 56-32-4M2-40        | 44800322           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 4"               | 56-32-4M2-64        | 44803728           |                  |                 |             |                       |                     |
| 346        | 1/4" Auto Tube Weld | 2-5/16"          | 56-346-4TW2-P       | 44803631           | 55-346-3         | 44800395        | 1-1/8"      | N/A                   | See Seal Enhancers  |
|            | 1/4" Vac Male       | 2-1/4"           | 56-346-4VM2-P       | 44803738           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 3"               | 56-346-4M2-48       | 44800414           |                  |                 |             |                       |                     |
| 350        | 1/4" Auto Tube Weld | 2-5/16"          | 56-350-4TW2-P       | 44800128           | 55-350-3         | 44800078        | 1-1/8"      | N/A                   | See Seal Enhancers  |
|            | 1/4" Vac Male       | 2-1/4"           | 56-350-4VM2-P       | 44800234           |                  |                 |             |                       |                     |
|            | 1/4" Auto Tube Weld | 2-1/2"           | 56-350-4TW2-40-P    | 44803735           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 3"               | 56-350-4M2-48       | 44800160           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 4"               | 56-350-4M2-64       | 44803729           |                  |                 |             |                       |                     |

-P indicates internal surface finish of 9 Ra Electropolish

Electropolished I.D. components designated by the "-P" suffix are cleaned and packaged in a clean room.

\* All gaskets sold in 25 pack.

\*\* Washer numbers ending in "T" are PTFE and those ending in "K" are PCTFE.

# CGA Inlet Connection Components *continued*

## Nipples, Nuts, and Washers

### 56 Series

High Integrity for high purity-specialty gases in Instrument/Analyzer and Process Applications

| CGA Number | End Connection      | H Overall Length | Nipple Model Number | Nipple Part Number | Nut Model Number | Nut Part Number | F1 Flat Hex | Washer Model Number** | Washer Part Number* |
|------------|---------------------|------------------|---------------------|--------------------|------------------|-----------------|-------------|-----------------------|---------------------|
| 510        | 1/4" Auto Tube Weld | 2-5/8"           | 56-50-4TW2-P        | 44800044           | 55-510-3         | 44800292        | 1-1/8"      | N/A                   | N/A                 |
|            | 1/4" Vac Male       | 2-3/4"           | 56-50-4VM2-P        | 44800043           |                  |                 |             |                       |                     |
|            | 1/4" Auto Tube Weld | 2-1/2"           | 56-50-4TW2-40-P     | 44803736           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 3-1/2"           | 56-50-4M2-56        | 44800070           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 4"               | 56-50-4M2-64        | 44803730           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 4-1/2"           | 56-50-4M2-72        | 44803731           |                  |                 |             |                       |                     |
| 540        | 1/4" Auto Tube Weld | 2-1/4"           | 56-54-4TW2-P        | 44800257           | 55-540-3         | 44800188        | 1-1/8"      | N/A                   | N/A                 |
|            | 1/4" Vac Male       | 2-1/4"           | 56-54-4VM2-P        | 44800422           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 3"               | 56-54-4M2-48        | 44800275           |                  |                 |             |                       |                     |
| 555        | 1/4" Auto Tube Weld | 2-1/4"           | 56-54-4TW2-P        | 44800257           | 55-555-3         | 44803175        | 1-1/8"      | N/A                   | N/A                 |
|            | 1/4" Vac Male       | 2-1/4"           | 56-54-4VM2-P        | 44800422           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 3"               | 56-54-4M2-48        | 44800275           |                  |                 |             |                       |                     |
| 580        | 1/4" Auto Tube Weld | 2-5/8"           | 56-50-4TW2-P        | 44800044           | 55-580-3         | 44800027        | 1-1/8"      | N/A                   | N/A                 |
|            | 1/4" Vac Male       | 2-3/4"           | 56-50-4VM2-P        | 44800043           |                  |                 |             |                       |                     |
|            | 1/4" Auto Tube Weld | 2-1/2"           | 56-50-4TW2-40-P     | 44803736           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 3-1/2"           | 56-50-4M2-56        | 44800070           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 4"               | 56-50-4M2-64        | 44803730           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 4-1/2"           | 56-50-4M2-72        | 44803731           |                  |                 |             |                       |                     |
| 590        | 1/4" Auto Tube Weld | 2-5/8"           | 56-50-4TW2-P        | 44800044           | 55-590-3         | 44800173        | 1-1/8"      | N/A                   | N/A                 |
|            | 1/4" Vac Male       | 2-3/4"           | 56-50-4VM2-P        | 44800043           |                  |                 |             |                       |                     |
|            | 1/4" Auto Tube Weld | 2-1/2"           | 56-50-4TW2-40-P     | 44803736           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 3-1/2"           | 56-50-4M2-56        | 44800070           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 4"               | 56-50-4M2-64        | 44803730           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 4-1/2"           | 56-50-4M2-72        | 44803731           |                  |                 |             |                       |                     |
| 660        | 1/4" Auto Tube Weld | 2-3/16"          | 56-60-4TW2-P        | 44800159           | 55-660-3         | 44800123        | 1-1/4"      | 50-60-T               | 44803479            |
|            | 1/4" Vac Male       | 1-7/8"           | 56-60-4VM2-P        | 44800082           |                  |                 |             | 50-60-K               | 44803480            |
|            | 1/4" Auto Tube Weld | 2-1/2"           | 56-60-4TW2-40-P     | 44803737           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 2-5/8"           | 56-60-4M2-42        | 44800273           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 4"               | 56-60-4M2-64        | 44803732           |                  |                 |             |                       |                     |

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\* All gaskets sold in 25 pack.

\*\* Washer numbers ending in "T" are PTFE and those ending in "K" are PCTFE.

# CGA Inlet Connection Components *continued*

## Nipples, Nuts, and Washers

### 56 Series

High Integrity for high purity-specialty gases in Instrument/Analyzer and Process Applications

| CGA Number | End Connection      | H Overall Length | Nipple Model Number | Nipple Part Number | Nut Model Number | Nut Part Number | F1 Flat Hex | Washer Model Number** | Washer Part Number* |
|------------|---------------------|------------------|---------------------|--------------------|------------------|-----------------|-------------|-----------------------|---------------------|
| 670        | 1/4" Auto Tube Weld | 2-3/16"          | 56-60-4TW2-P        | 44800159           | 55-670-3         | 44800423        | 1-1/4"      | 50-60-T               | 44803479            |
|            | 1/4" Vac Male       | 1-7/8"           | 56-60-4VM2-P        | 44800082           |                  |                 |             |                       |                     |
|            | 1/4" Auto Tube Weld | 2-1/2"           | 56-60-4TW2-40-P     | 44803737           |                  |                 |             | 50-60-K               | 44803480            |
|            | 1/4" NPT Male       | 2-5/8"           | 56-60-4M2-42        | 44800273           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 4"               | 56-60-4M2-64        | 44803732           |                  |                 |             |                       |                     |
| 678        | 1/4" Auto Tube Weld | 2-1/2"           | 56-678-4TW2-P       | 44800470           | 55-678-3         | 44800387        | 1-1/4"      | 50-66-T               | 44803481            |
|            | 1/4" Vac Male       | 2"               | 56-678-4VM2-P       | 44800508           |                  |                 |             | 50-66-K               | 44803482            |
|            | 1/4" NPT Male       | 2-3/8"           | 56-678-4M2-38       | 44803514           |                  |                 |             |                       |                     |
| 679        | 1/4" Auto Tube Weld | 2-1/2"           | 56-679-4TW2-P       | 44800673           | 55-679-3         | 44800545        | 1-1/4"      | 50-110-T              | 44803472            |
|            | 1/4" Vac Male       | 2"               | 56-679-4VM2-P       | 44803707           |                  |                 |             |                       |                     |
|            | 1/4" NPT Male       | 2-1/2"           | 56-679-4M2-40       | 44803624           |                  |                 |             |                       |                     |

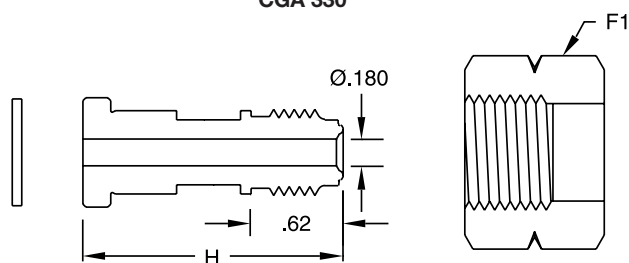
-P indicates internal surface finish of 9 Ra Electropolish

Electropolished I.D. components designated by the "-P" suffix are cleaned and packaged in a clean room.

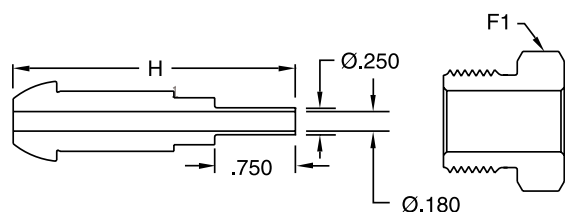
\* All gaskets sold in 25 pack.

\*\* Washer numbers ending in "T" are PTFE and those ending in "K" are PCTFE.

**VacuSeal Male**  
CGA 330



**Auto Tube Weld**  
CGA 330





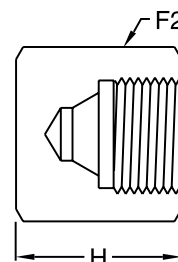
# CGA Outlet Adapters, Blank Caps & Plugs

## 57 Series

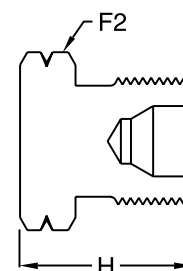
High Integrity for high purity-specialty gases in Instrument/Analyzer and Process Applications

| CGA Number | End Connection      | Model Number | Part Number | H Overall Length | F2 Flat Hex |
|------------|---------------------|--------------|-------------|------------------|-------------|
| 180        | 1/4" NPT Female     | 57-180M4F-2  | 44800409    | 1.38"            | 3/4"        |
|            | Blank Cap           | 57-296FXX-3  | 44800712    | 1.37"            |             |
| 296        | 1/4" VacuSeal™ Male | 57-296F4VM-2 | 44803297    | 2.00"            | 1-1/8"      |
|            | 1/4" NPT Female     | 57-296F4F-2  | 44803438    | 2.00"            |             |
| 320        | Blank Plug          | 57-320MXX-3  | 44800374    | 1.12"            |             |
|            | 1/4" VacuSeal™ Male | 57-320M4VM-2 | 44803070    | 1.74"            | 1"          |
|            | 1/4" NPT Female     | 57-320M4F-2  | 44800265    | 1.12"            |             |
| 326        | Blank Plug          | 57-326MXX-3  | 44800543    | 1.12"            |             |
|            | 1/4" VacuSeal™ Male | 57-326M4VM-2 | 44800740    | 1.74"            | 1"          |
|            | 1/4" NPT Female     | 57-326M4F-2  | 44800713    | 1.31"            |             |
| 330        | Blank Plug          | 57-330MXX-3  | 44800269    | 1.12"            |             |
|            | 1/4" VacuSeal™ Male | 57-330M4VM-2 | 44800567    | 1.74"            | 1"          |
|            | 1/4" NPT Female     | 57-330M4F-2  | 44800203    | 1.31"            |             |
| 346        | Blank Plug          | 57-346MXX-3  | 44803441    | 1.12"            |             |
|            | 1/4" VacuSeal™ Male | 57-346M4VM-2 | 44803440    | 1.88"            | 1"          |
|            | 1/4" NPT Female     | 57-346M4F-2  | 44803439    | 1.31"            |             |
| 350        | Blank Plug          | 57-350MXX-3  | 44800164    | 1.12"            |             |
|            | 1/4" VacuSeal™ Male | 57-350M4VM-2 | 44800308    | 1.88"            | 1"          |
|            | 1/4" NPT Female     | 57-350M4F-2  | 44800358    | 1.31"            |             |
| 510        | Blank Cap           | 57-510FXX-3  | 44800740    | 1.37"            |             |
|            | 1/4" VacuSeal™ Male | 57-510F4VM-2 | 44800510    | 2.00"            | 1-1/4"      |
|            | 1/4" NPT Female     | 57-510F4F-2  | 44800599    | 2.00"            |             |
| 540        | Blank Plug          | 57-540MXX-3  | 44800436    | 1.12"            |             |
|            | 1/4" VacuSeal™ Male | 57-540M4VM-2 | 44800411    | 1.87"            | 1"          |
|            | 1/4" NPT Female     | 57-540M4F-2  | 44800685    | 1.25"            |             |
| 580        | Blank Cap           | 57-580FXX-3  | 44800122    | 1.37"            |             |
|            | 1/4" VacuSeal™ Male | 57-580F4VM-2 | 44800238    | 2.00"            | 1-1/4"      |
|            | 1/4" NPT Female     | 57-580F4F-2  | 44800214    | 2.00"            |             |
| 590        | Blank Cap           | 57-590FXX-3  | 44800317    | 1.37"            |             |
|            | 1/4" VacuSeal™ Male | 57-590F4VM-2 | 44800592    | 2.00"            | 1-1/4"      |
|            | 1/4" NPT Female     | 57-590F4F-2  | 44800487    | 2.00"            |             |
| 660        | Blank Plug          | 57-660MXX-3  | 44800226    | 0.88"            |             |
|            | 1/4" VacuSeal™ Male | 57-660M4VM-2 | 44800444    | 1.50"            | 1-1/8"      |
|            | 1/4" NPT Female     | 57-660M4F-2  | 44800097    | 1.25"            |             |
| 670        | Blank Plug          | 57-670MXX-3  | 44800664    | 0.88"            |             |
|            | 1/4" VacuSeal™ Male | 57-670M4VM-2 | 44800477    | 1.50"            | 1-1/8"      |
|            | 1/4" NPT Female     | 57-670M4F-2  | 44800711    | 1.25"            |             |
| 678        | Blank Plug          | 57-678MXX-3  | 44800671    | 1.00"            |             |
|            | 1/4" VacuSeal™ Male | 57-678M4VM-2 | 44800565    | 1.50"            | 1-1/8"      |
| 679        | Blank Plug          | 57-679MXX-3  | 44800708    | 0.88"            |             |
|            | 1/4" VacuSeal™ Male | 57-679M4VM-2 | 44800315    | 1.75"            | 1-1/8"      |
|            | 1/4" NPT Female     | 57-679M4F-2  | 44800570    | 1.25"            |             |

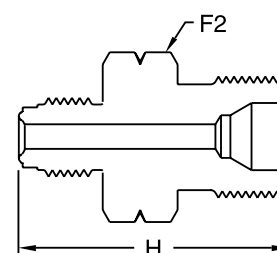
Blank Cap  
CGA 580



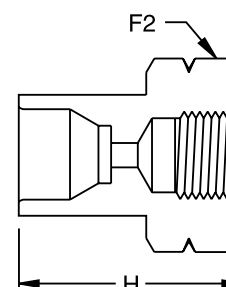
Blank Plug  
CGA 350



Vac Male  
CGA 350



NPT Female  
CGA 350



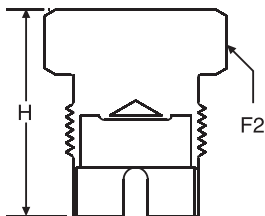


# CGA Outlet Adapters and Blank Plugs

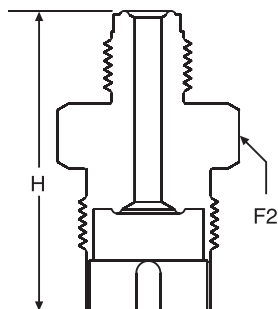
## 57 Series

Ultra High Integrity for high purity-specialty gases in Microelectronics and other UHP Process Applications

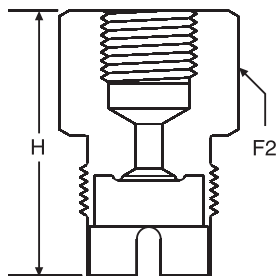
**Blank Plug**



**Vac Male**



**NPT Female**



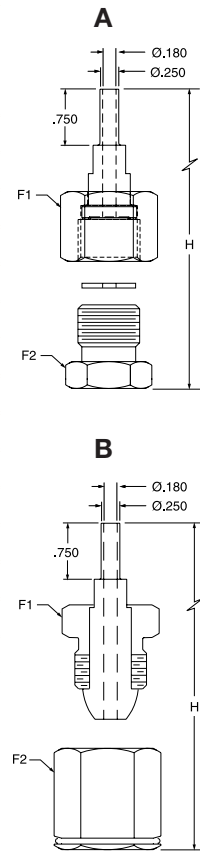
| CGA/<br>DISS<br>Number | End Connection             | Model<br>Number | Part<br>Number           | H<br>Overall<br>Length | F2<br>Flat<br>Hex |
|------------------------|----------------------------|-----------------|--------------------------|------------------------|-------------------|
| <b>632</b>             | Blank Valve Outlet Adapter | 57-63MXX-2      | <a href="#">44800013</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-632M4VM-2    | <a href="#">44800349</a> | 2"                     | 1-1/8"            |
|                        | 1/4" NPT Female            | 57-632M4F-2     | <a href="#">44800361</a> | 1.85"                  |                   |
| <b>634</b>             | Blank Valve Outlet Adapter | 57-63MXX-2      | <a href="#">44800013</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-634M4VM-2    | <a href="#">44800420</a> | 2"                     | 1-1/8"            |
|                        | 1/4" NPT Female            | 57-634M4F-2     | <a href="#">44803363</a> | 1.85"                  |                   |
| <b>636</b>             | Blank Valve Outlet Adapter | 57-63MXX-2      | <a href="#">44800013</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-636M4VM-2    | <a href="#">44800445</a> | 2"                     | 1-1/8"            |
|                        | 1/4" NPT Female            | 57-636M4F-2     | <a href="#">44803449</a> | 1.85"                  |                   |
| <b>638</b>             | Blank Valve Outlet Adapter | 57-63MXX-2      | <a href="#">44800013</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-638M4VM-2    | <a href="#">44800483</a> | 2"                     | 1-1/8"            |
|                        | 1/4" NPT Female            | 57-638M4F-2     | <a href="#">44803359</a> | 1.85"                  |                   |
| <b>640</b>             | Blank Valve Outlet Adapter | 57-63MXX-2      | <a href="#">44800013</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-640M4VM-2    | <a href="#">44800294</a> | 2"                     | 1-1/8"            |
|                        | 1/4" NPT Female            | 57-640M4F-2     | <a href="#">44800383</a> | 1.85"                  |                   |
| <b>642</b>             | Blank Valve Outlet Adapter | 57-63MXX-2      | <a href="#">44800013</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-642M4VM-2    | <a href="#">44800618</a> | 2"                     | 1-1/8"            |
|                        | 1/4" NPT Female            | 57-642M4F-2     | <a href="#">44800595</a> | 1.85"                  |                   |
| <b>712</b>             | Blank Valve Outlet Adapter | 57-70MXX-2      | <a href="#">44800113</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-712M4VM-2    | <a href="#">44800291</a> | 2"                     | 1-1/4"            |
|                        | 1/4" NPT Female            | 57-712M4F-2     | <a href="#">44800354</a> | 1.85"                  |                   |
| <b>714</b>             | Blank Valve Outlet Adapter | 57-70MXX-2      | <a href="#">44800113</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-714M4VM-2    | <a href="#">44800375</a> | 2"                     | 1-1/4"            |
| <b>716</b>             | Blank Valve Outlet Adapter | 57-70MXX-2      | <a href="#">44800113</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-716M4VM-2    | <a href="#">44800192</a> | 2"                     | 1-1/4"            |
|                        | 1/4" NPT Female            | 57-716M4F-2     | <a href="#">44800211</a> | 1.85"                  |                   |
| <b>718</b>             | Blank Valve Outlet Adapter | 57-70MXX-2      | <a href="#">44800113</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-718M4VM-2    | <a href="#">44800324</a> | 2"                     | 1-1/4"            |
|                        | 1/4" NPT Female            | 57-718M4F-2     | <a href="#">44803360</a> | 1.85"                  |                   |
| <b>720</b>             | Blank Valve Outlet Adapter | 57-72MXX-2      | <a href="#">44800125</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-720M4VM-2    | <a href="#">44800482</a> | 2"                     | 1-1/4"            |
|                        | 1/4" NPT Female            | 57-720M4F-2     | <a href="#">44800634</a> | 1.85"                  |                   |
| <b>722</b>             | Blank Valve Outlet Adapter | 57-72MXX-2      | <a href="#">44800125</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-722M4VM-2    | <a href="#">44800617</a> | 2"                     | 1-1/4"            |
|                        | 1/4" NPT Female            | 57-722M4F-2     | <a href="#">44800651</a> | 1.85"                  |                   |
| <b>724</b>             | Blank Valve Outlet Adapter | 57-72MXX-2      | <a href="#">44800125</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-724M4VM-2    | <a href="#">44800364</a> | 2"                     | 1-1/4"            |
|                        | 1/4" NPT Female            | 57-724M4F-2     | <a href="#">44803361</a> | 1.85"                  |                   |
| <b>726</b>             | Blank Valve Outlet Adapter | 57-72MXX-2      | <a href="#">44800125</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-726M4VM-2    | <a href="#">44800616</a> | 2"                     | 1-1/4"            |
| <b>728</b>             | Blank Valve Outlet Adapter | 57-72MXX-2      | <a href="#">44800125</a> | 1.53"                  |                   |
|                        | 1/4" VacuSeal™ Male        | 57-728M4VM-2    | <a href="#">44800355</a> | 2"                     | 1-1/4"            |
|                        | 1/4" NPT Female            | 57-728M4F-2     | <a href="#">44803362</a> | 1.85"                  |                   |

# CGA Pigtail Connections

## 58 Series

High Integrity for high purity-specialty gases in Instrument/Analyzer and Process Applications

| CGA Number | Drawing | Model Number  | Part Number | H Overall Length | F1 Hex Flat | F2 Hex Flat | Washer Material |
|------------|---------|---------------|-------------|------------------|-------------|-------------|-----------------|
| 296        | B       | 58-296-4TW2-P | 44800293    | 3.03             | 7/8"        | 1-1/8"      | —               |
| 320        | A       | 58-320-4TW2-P | 44800178    | 2.96             | 1-1/8"      | 1"          | PCTFE           |
| 326        | A       | 58-326-4TW2-P | 44800168    | 3.01             | 1-1/8"      | 1"          | —               |
| 330        | A       | 58-330-4TW2-P | 44800072    | 2.96             | 1-1/8"      | 1"          | PCTFE           |
| 346        | A       | 58-346-4TW2-P | 44803741    | 2.97             | 1-1/8"      | 1"          | —               |
| 350        | A       | 58-350-4TW2-P | 44800028    | 2.96             | 1-1/8"      | 1"          | —               |
| 510        | B       | 58-510-4TW2-P | 44800432    | 3.03             | 1-1/8"      | 1-1/4"      | —               |
| 540        | A       | 58-540-4TW2-P | 44800129    | 2.96             | 1-1/8"      | 1"          | —               |
| 555        | A       | 58-555-4TW2-P | 44803742    | 2.96             | 1-1/8"      | 1"          | —               |
| 580        | B       | 58-580-4TW2-P | 44800021    | 3.03             | 1-1/8"      | 1-1/4"      | —               |
| 590        | B       | 58-590-4TW2-P | 44800147    | 3.03             | 1-1/8"      | 1-1/4"      | —               |
| 660        | A       | 58-660-4TW2-P | 44800068    | 2.96             | 1-1/4"      | 1-1/8"      | PCTFE           |
| 670        | A       | 58-670-4TW2-P | 44800424    | 2.96             | 1-1/4"      | 1-1/8"      | PCTFE           |
| 678        | A       | 58-678-4TW2-P | 44800428    | 3.08             | 1-1/4"      | 1-1/8"      | PCTFE           |
| 679        | A       | 58-679-4TW2-P | 44800237    | 2.96             | 1-1/4"      | 1-1/8"      | PTFE            |

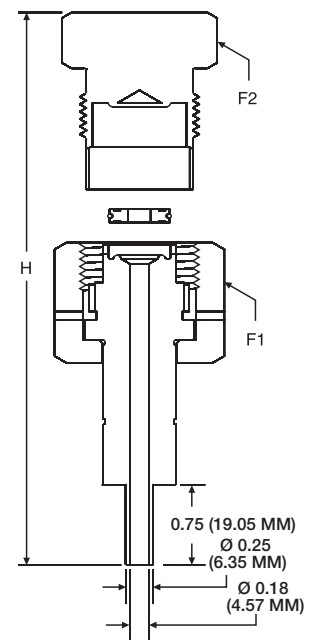


Electropolished I.D. components designated by the "-P" suffix are cleaned and packaged in a clean room.  
-P indicates internal surface finish of 9 Ra Electropolish

## 58 Series

Ultra High Integrity for high purity-specialty gases in Microelectronics and other UHP Process Applications

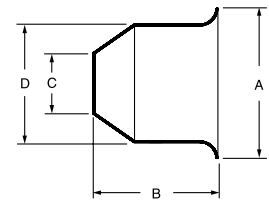
| CGA/ DISS Number | Model Number | Part Number | H Overall Length | F1 Hex Flat | F2 Hex Flat |
|------------------|--------------|-------------|------------------|-------------|-------------|
| 632              | 58-632-4TW2  | 44800008    | 3.40             | 1-1/4"      | 1-1/8"      |
| 634              | 58-634-4TW2  | 44800012    | 3.40             | 1-1/4"      | 1-1/8"      |
| 636              | 58-636-4TW2  | 44800034    | 3.40             | 1-1/4"      | 1-1/8"      |
| 638              | 58-638-4TW2  | 44800024    | 3.40             | 1-1/4"      | 1-1/8"      |
| 640              | 58-640-4TW2  | 44800020    | 3.40             | 1-1/4"      | 1-1/8"      |
| 642              | 58-642-4TW2  | 44800107    | 3.40             | 1-1/4"      | 1-1/8"      |
| 712              | 58-712-4TW2  | 44800031    | 3.40             | 1-3/8"      | 1-1/4"      |
| 714              | 58-714-4TW2  | 44800045    | 3.40             | 1-3/8"      | 1-1/4"      |
| 716              | 58-716-4TW2  | 44800011    | 3.40             | 1-3/8"      | 1-1/4"      |
| 718              | 58-718-4TW2  | 44800009    | 3.40             | 1-3/8"      | 1-1/4"      |
| 720              | 58-720-4TW2  | 44800019    | 3.40             | 1-3/8"      | 1-1/4"      |
| 722              | 58-722-4TW2  | 44800216    | 3.40             | 1-3/8"      | 1-1/4"      |
| 724              | 58-724-4TW2  | 44800030    | 3.40             | 1-3/8"      | 1-1/4"      |
| 726              | 58-726-4TW2  | 44800321    | 3.40             | 1-3/8"      | 1-1/4"      |
| 728              | 58-728-4TW2  | 44800017    | 3.40             | 1-3/8"      | 1-1/4"      |



All Ultra High Integrity Pigtail Connections include nickel gasket

# Seal Enhancers (10 Per Package)

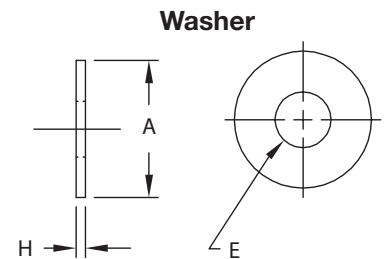
| Material   | Model Number | Part Number | A Overall Length | B Overall Length | C Overall Length | D Overall Length |
|------------|--------------|-------------|------------------|------------------|------------------|------------------|
| Nickel 200 | 50-326-NI    | 44801258    | .54              | .45              | .22              | .43              |
| Nickel 200 | 50-346-NI    | 44801077    | .62              | .54              | .29              | .50              |
| Nickel 200 | 50-350-NI    | 44801079    | .62              | .54              | .29              | .50              |



# Gaskets & Washers (25 Per Package)

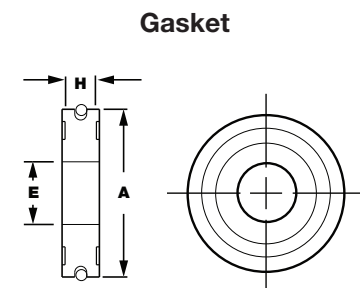
High Integrity for high purity-specialty gases in Instrument/Analyzer and Process Applications

| CGA Number | Material | Model Number | Part Number | A Overall Length | H Overall Width | E Overall Bore |
|------------|----------|--------------|-------------|------------------|-----------------|----------------|
| 170        | PTFE     | 50-170-T     | 44803474    | .425             | .1              | .187           |
| 170        | PCTFE    | 50-170-K     | 44803475    | .425             | .1              | .187           |
| 180        | PTFE     | 50-180-T     | 44803476    | .437             | .094            | .320           |
| 180        | PCTFE    | 50-180-K     | 44803547    | .437             | .094            | .320           |
| 320, 330   | PTFE     | 50-320-T     | 44803477    | .703             | .094            | .250           |
| 320, 330   | PCTFE    | 50-320-K     | 44803478    | .718             | .064            | .265           |
| 660, 670   | PTFE     | 50-60-T      | 44803479    | .938             | .063            | .383           |
| 660, 670   | PCTFE    | 50-60-K      | 44803480    | .937             | .062            | .375           |
| 678        | PTFE     | 50-66-T      | 44803481    | .609             | .062            | .295           |
| 678        | PCTFE    | 50-66-K      | 44803482    | .609             | .062            | .295           |
| 679        | PTFE     | 50-110-T     | 44803472    | .531             | .063            | .312           |



Ultra High Integrity for high purity-specialty gases in Microelectronics and other UHP Process Applications

| CGA/ DISS Number | Material   | Model Number | Part Number | A Overall Length | H Overall Width | E Overall Bore |
|------------------|------------|--------------|-------------|------------------|-----------------|----------------|
| 632-728          | Nickel 200 | 50-63-NI     | 44803595    | .56              | .105            | .21            |
| 632-728          | PCTFE      | 50-63-K      | 44803412    | .56              | .105            | .21            |
| 632-728          | Aluminum   | 50-63-AL     | 44803469    | .56              | .105            | .25            |



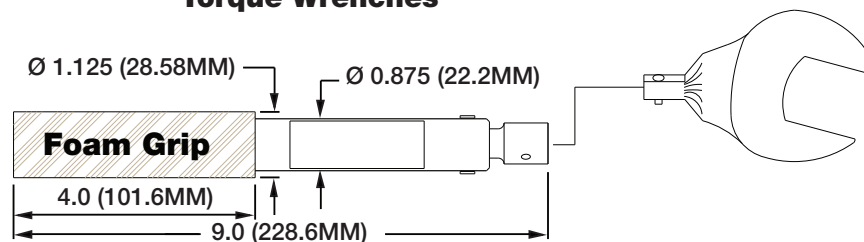
# Flexible Pigtails

| Part Number     | Material                                | End Connections       | H Overall Length | Maximum Working Pressure |
|-----------------|-----------------------------------------|-----------------------|------------------|--------------------------|
| <b>44803751</b> | 316 Double Braided Stainless Steel Hose | 1/4" MNPT x 1/4" FNPT | 12"              | 3625 PSI                 |
| <b>44803752</b> | 316 Double Braided Stainless Steel Hose | 1/4" MNPT x 1/4" FNPT | 24"              | 3625 PSI                 |
| <b>44803753</b> | 316 Double Braided Stainless Steel Hose | 1/4" MNPT x 1/4" FNPT | 36"              | 3625 PSI                 |
| <b>44803754</b> | 316 Double Braided Stainless Steel Hose | 1/4" MNPT x 1/4" FNPT | 48"              | 3625 PSI                 |
| <b>44803755</b> | 316 Double Braided Stainless Steel Hose | 1/4" MNPT x 1/4" FNPT | 60"              | 3625 PSI                 |
| <b>44803756</b> | 316 Double Braided Stainless Steel Hose | 1/4" MNPT x 1/4" FNPT | 72"              | 3625 PSI                 |

# Torque Wrenches

## 77 Series

### Torque Wrenches



| Model Number | Part Number     | Factory Set Torque | For Use With          | CGA 632-642 Hex Flat | CGA 712-718 Hex Flat | CGA 326, 346, 350 Hex Flat | CGA 320, 330 Hex Flat |
|--------------|-----------------|--------------------|-----------------------|----------------------|----------------------|----------------------------|-----------------------|
| 77-DISS-TW   | <b>44800010</b> | 35 ft-lbs          | Nickel Gasket         | 1-1/4"               | 1-3/8"               | N/A                        | N/A                   |
| 77-DISS-TW-K | <b>44800035</b> | 12 ft-lbs          | PCTFE Gasket          |                      |                      |                            |                       |
| 77-350-TW    | <b>44803230</b> | 40 ft-lbs          | Nickel Seal Enhancers | N/A                  | N/A                  | 1-1/8"                     | N/A                   |
| 77-CGA-32-TW | <b>44803656</b> | 20 ft-lbs          | PTFE/PCTFE            | N/A                  | N/A                  | N/A                        | 1-1/8"                |

Torque wrenches are specifically designed for use with the Compressed Gas Association's CGA 632-642, 712-728 and CGA 320, 326, 330, 346 and 350 series of connections. Torque is factory set to the CGA recommendations. Calibration service is also available and is recommended every six months or 4,000 cycles, whichever comes first.

## Notes:

CGA (Compressed Gas Association) connections are adapter fittings designed to connect a cylinder of compressed gas to either a regulator, pigtail, hose assembly, etc.

Each CGA Series (I.E. 580, 590, 660) has a unique design which will only "mate" with the corresponding cylinder connection.

The unique design of each CGA series impedes an operator from mixing gases that may not be compatible.

Each CGA series is specific to a given gas, family of compatible gases and/or cylinder pressures.

The Customer is responsible for specifying the proper CGA connection for his/her application.

The guidelines set forth by the Compressed Gas Association must be followed to insure that gases are not mixed and the proper connection is used for the pressure range of the cylinder.

Actual gas assignments are subject to periodic change. The user must verify all information at the time of use. For verification, please contact the Compressed Gas Association.

Note: Adapters that allow conversion of one type of gas connection to another are dangerous & can result in a fire and/or personnel injury.

# Gas Connection Assignment Table\*\*

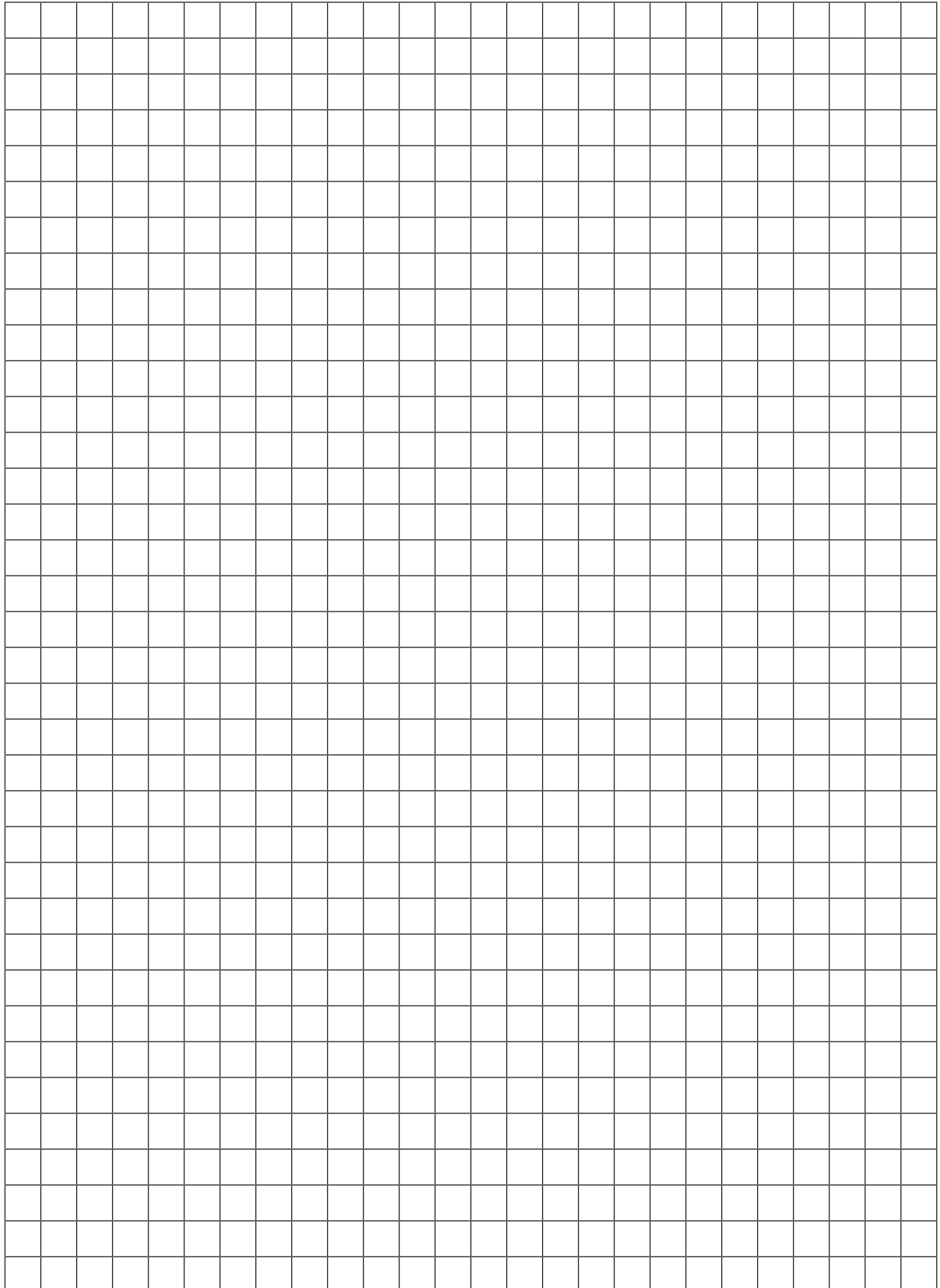
For pressures up to 4704 psig (320 bar) dependent of CGA, DIN, JIS and ISO organization specifications.

| Gas                      | Formula                                          | UHP CGA | CGA        | DIN    | JIS          |
|--------------------------|--------------------------------------------------|---------|------------|--------|--------------|
| Ammonia                  | NH <sub>3</sub>                                  | 720     | 705        | DIN 6  | 22-R         |
| Argon                    | Ar                                               | 718     | 580        | DIN 6  | 22-R or 23-R |
| Arsenic Pentafluoride    | AsF <sub>5</sub>                                 | 642     | -          | -      | -            |
| Arsine                   | AsH <sub>3</sub>                                 | 632     | 350        | -      | 22-L         |
| Boron Trichloride        | BCl <sub>3</sub>                                 | 634     | 660        | DIN 8  | -            |
| Boron Trifluoride        | BF <sub>3</sub>                                  | 642     | 330        | DIN 8  | 22-L         |
| Carbon Dioxide           | CO <sub>2</sub>                                  | 716     | 320        | DIN 6  | -            |
| Carbon Monoxide          | CO                                               | 724     | 350        | DIN 5  | 22-L         |
| Chlorine                 | Cl <sub>2</sub>                                  | 728     | -          | DIN 8  | 26-R         |
| Diborane                 | B <sub>2</sub> H <sub>6</sub>                    | 632     | 350        | -      | 22-L         |
| Dichlorosilane           | SiH <sub>2</sub> Cl <sub>2</sub>                 | 636     | 678*       | DIN 5  | -            |
| Diethylzinc              | Zn(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub>  | 726     | 510*       | -      | -            |
| Diethyltelluride         | (C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> Te | 726     | -          | -      | -            |
| Dimethylzinc             | (CH <sub>3</sub> ) <sub>2</sub> Zn               | 726     | -          | -      | -            |
| Disilane                 | Si <sub>2</sub> H <sub>6</sub>                   | 632     | -          | -      | -            |
| Germane                  | GeH <sub>4</sub>                                 | 632     | 350 or 660 | -      | -            |
| Halocarbon 11            | CCl <sub>3</sub> F                               | 716     | 660        | - -    | -            |
| Halocarbon 115           | ClCF <sub>2</sub> CF <sub>3</sub>                | 716     | 660        | DIN 6  | -            |
| Halocarbon 12            | CCl <sub>2</sub> F <sub>2</sub>                  | 716     | 660        | DIN 6  | -            |
| Halocarbon 13            | ClCF <sub>3</sub>                                | 716     | 660        | DIN 6  | -            |
| Halocarbon 14            | CF <sub>4</sub>                                  | 716     | 320 or 580 | DIN 6  | -            |
| Halocarbon 23            | CHF <sub>3</sub>                                 | 716     | 660        | DIN 6  | -            |
| Halocarbon 116           | F <sub>3</sub> CCF <sub>3</sub>                  | 716     | 660        | -      | -            |
| Helium                   | He                                               | 718     | 580        | DIN 6  | 22-R OR 23-R |
| Hydrogen                 | H <sub>2</sub>                                   | 724     | 350        | DIN 1  | 22-L         |
| Hydrogen Bromide         | HBr                                              | 634     | 330        | DIN 8  | 26-R         |
| Hydrogen Chloride        | HCl                                              | 634     | 330        | DIN 8  | 26-R         |
| Hydrogen Fluoride        | HF                                               | 638     | 660 or 670 | -      | 26-R         |
| Hydrogen Sulfide         | H <sub>2</sub> S                                 | 722     | 330        | DIN 5  | -            |
| Krypton                  | Kr                                               | 718     | 580        | DIN 6  | 22-R OR 23-R |
| Neon                     | Ne                                               | 718     | 580        | DIN 6  | 22-R OR 23-R |
| Nitrogen                 | N <sub>2</sub>                                   | 718     | 580        | DIN 10 | 22-R OR 23-R |
| Nitrogen Trifluoride     | NF <sub>3</sub>                                  | 640     | 330 or 670 | DIN 8  | -            |
| Nitrous Oxide            | N <sub>2</sub> O                                 | 712     | 326        | DIN 8  | -            |
| Oxygen                   | O <sub>2</sub>                                   | 714     | 540        | DIN 9  | 22-R OR 23-R |
| Perfluoropropane         | CF <sub>2</sub> (CF <sub>3</sub> ) <sub>2</sub>  | 716     | 660        | -      | -            |
| Phosphine                | PH <sub>3</sub>                                  | 632     | 350 or 660 | DIN 1  | -            |
| Phosphorus Pentafluoride | PF <sub>5</sub>                                  | 642     | 330 or 660 | -      | -            |
| Silane                   | SiH <sub>4</sub>                                 | 632     | 350        | -      | -            |
| Silicon Tetrachloride    | SiCl <sub>4</sub>                                | 636     | -          | -      | -            |
| Silicon Tetrafluoride    | SiF <sub>4</sub>                                 | 642     | 330        | -      | 22-L         |
| Sulphur Hexafluoride     | SF <sub>6</sub>                                  | 716     | 590        | DIN 6  | 26-R         |
| Trichlorosilane          | SiHCl <sub>3</sub>                               | 636     | -          | -      | -            |
| Triethylaluminum         | (C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> Al | 726     | 510*       | -      | -            |
| Tungsten Hexafluoride    | WF <sub>6</sub>                                  | 638     | 670        | DIN 8  | -            |
| Xenon                    | Xe                                               | 718     | 580        | DIN 6  | 22-R         |

\* Consult CGA, DIN, JIS, or ISO organization specifications for pressure limits.

\*\* Information in this table was obtained from reliable sources. It shall be used for reference only. Actual gas assignments are subject to periodic change and may differ based on pressure range. The user must verify all information in this table at the time of use. For verification, contact the Compressed Gas Association offices.

## System Notes







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