

# DISS NEJIREN & CGA NEJIREN *Cylinder Connections*

CGA DISS

DIN

JIS



**SANKO KOGYO CO., LTD.**

<http://www.jsk-sanko.co.jp>

# CGA DISS Series

## DISS NEJIREN

|                                  |     |
|----------------------------------|-----|
| NIPPLES .....                    | 3~4 |
| NUTS .....                       | 3~4 |
| GASKETS .....                    | 4   |
| INLET CONNECTIONS .....          | 3~4 |
| OUTLET BLANK PLUGS .....         | 5   |
| OUTLET ADAPTERS .....            | 5   |
| CYLINDER VALVE OUTLET CAPS ..... | 6   |

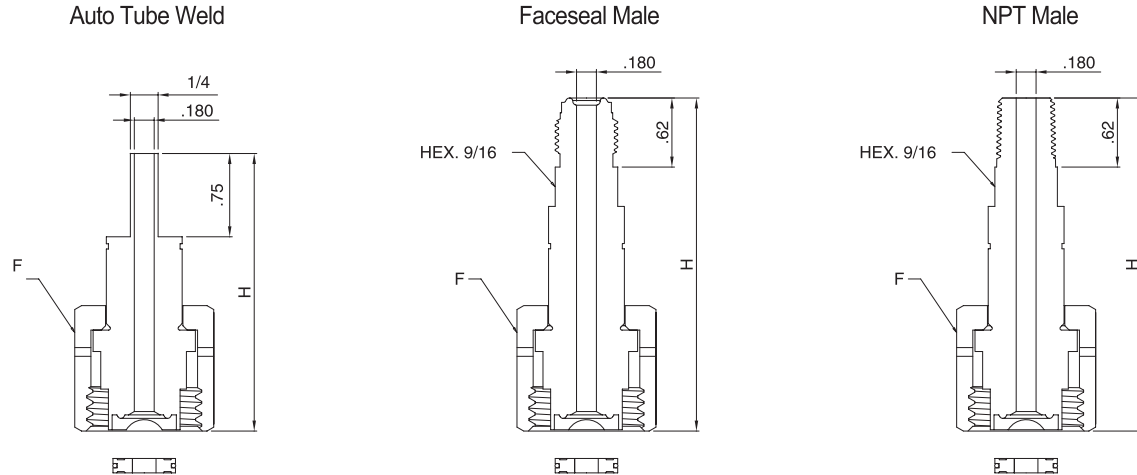






### CGA DISS Series

#### INLET CONNECTIONS (Nipple, Nut and Gasket included)



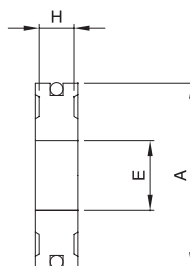
| CGA DISS Number | End Connection      | Assembly Part Number | H Overall Length |      | F Hex Flat | Gasket Part Number (Nickel) | Gasket Part Number (PCTFE) | Gasket Part Number (Aluminum) |
|-----------------|---------------------|----------------------|------------------|------|------------|-----------------------------|----------------------------|-------------------------------|
|                 |                     |                      | in               | mm   |            |                             |                            |                               |
| 632             | 1/4" Auto Tube Weld | DISS632-4TW-N-EP     | 2.50             | 63.5 | 1-1/4      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS632-4VM-N-EP     | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS632-4NM-N-BA     | 3.00             | 76.2 |            |                             |                            |                               |
| 634             | 1/4" Auto Tube Weld | DISS634-4TW-N-EP     | 2.50             | 63.5 | 1-1/4      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS634-4VM-N-EP     | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS634-4NM-N-BA     | 3.00             | 76.2 |            |                             |                            |                               |
| 636             | 1/4" Auto Tube Weld | DISS636-4TW-N-EP     | 2.50             | 63.5 | 1-1/4      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS636-4VM-N-EP     | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS636-4NM-N-BA     | 3.00             | 76.2 |            |                             |                            |                               |
| 638             | 1/4" Auto Tube Weld | DISS638-4TW-N-EP     | 2.50             | 63.5 | 1-1/4      | DISS-NI:EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS638-4VM-N-EP     | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS638-4NM-N-BA     | 3.00             | 76.2 |            |                             |                            |                               |
| 640             | 1/4" Auto Tube Weld | DISS640-4TW-N-EP     | 2.50             | 63.5 | 1-1/4      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS640-4VM-N-EP     | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS640-4NM-N-BA     | 3.00             | 76.2 |            |                             |                            |                               |
| 642             | 1/4" Auto Tube Weld | DISS642-4TW-N-EP     | 2.50             | 63.5 | 1-1/4      | DISS-NI:EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS642-4VM-N-EP     | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS642-4NM-N-BA     | 3.00             | 76.2 |            |                             |                            |                               |
| 712             | 1/4" Auto Tube Weld | DISS712-4TW-N-EP     | 2.50             | 63.5 | 1-3/8      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS712-4VM-N-EP     | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS712-4NM-N-BA     | 3.00             | 76.2 |            |                             |                            |                               |
| 714             | 1/4" Auto Tube Weld | DISS714-4TW-N-EP     | 2.50             | 63.5 | 1-3/8      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS714-4VM-N-EP     | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS714-4NM-N-BA     | 3.00             | 76.2 |            |                             |                            |                               |
| 716             | 1/4" Auto Tube Weld | DISS716-4TW-N-EP     | 2.50             | 63.5 | 1-3/8      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS716-4VM-N-EP     | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS716-4NM-N-BA     | 3.00             | 76.2 |            |                             |                            |                               |

## CGA DISS Series

**INLET CONNECTIONS (Nipple, Nut and Gasket included)** Continued from previous page

| CGA DISS Number | End Connection      | Assembly Part Number | H Overall Length |      | F Hex Flat | Gasket Part Number (Nickel) | Gasket Part Number (PCTFE) | Gasket Part Number (Aluminum) |
|-----------------|---------------------|----------------------|------------------|------|------------|-----------------------------|----------------------------|-------------------------------|
|                 |                     |                      | in               | mm   |            |                             |                            |                               |
| 718             | 1/4" Auto Tube Weld | DISS718 - 4TW-N-EP   | 2.50             | 63.5 | 1-3/8      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS718 - 4VM-N-EP   | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS718 - 4NM-N-BA   | 3.00             | 76.2 |            |                             |                            |                               |
| 720             | 1/4" Auto Tube Weld | DISS720 - 4TW-N-EP   | 2.50             | 63.5 | 1-3/8      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS720 - 4VM-N-EP   | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS720 - 4NM-N-BA   | 3.00             | 76.2 |            |                             |                            |                               |
| 722             | 1/4" Auto Tube Weld | DISS722 - 4TW-N-EP   | 2.50             | 63.5 | 1-3/8      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS722 - 4VM-N-EP   | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS722 - 4NM-N-BA   | 3.00             | 76.2 |            |                             |                            |                               |
| 724             | 1/4" Auto Tube Weld | DISS724 - 4TW-N-EP   | 2.50             | 63.5 | 1-3/8      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS724 - 4VM-N-EP   | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS724 - 4NM-N-BA   | 3.00             | 76.2 |            |                             |                            |                               |
| 726             | 1/4" Auto Tube Weld | DISS726 - 4TW-N-EP   | 2.50             | 63.5 | 1-3/8      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS726 - 4VM-N-EP   | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS726 - 4NM-N-BA   | 3.00             | 76.2 |            |                             |                            |                               |
| 728             | 1/4" Auto Tube Weld | DISS728 - 4TW-N-EP   | 2.50             | 63.5 | 1-3/8      | DISS-NI-EP                  | DISS-PCTFE                 | DISS-AL                       |
|                 | 1/4" Faceseal Male  | DISS728 - 4VM-N-EP   | 3.00             | 76.2 |            |                             |                            |                               |
|                 | 1/4" NPT Male       | DISS728 - 4NM-N-BA   | 3.00             | 76.2 |            |                             |                            |                               |

## GASKETS (CGA DISS 632~728)



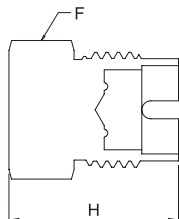
| Gasket Part Number | Material   | A   |      | E   |     | H    |     |
|--------------------|------------|-----|------|-----|-----|------|-----|
|                    |            | in  | mm   | in  | mm  | in   | mm  |
| DISS-NI-EP         | Nickel 200 | .56 | 14.2 | .21 | 5.3 | .105 | 2.7 |
| DISS-PCTEE         | PCTFE      | .56 | 14.2 | .21 | 5.3 | .125 | 3.2 |
| DISS-AL            | Aluminum   | .56 | 14.2 | .21 | 5.3 | .105 | 2.7 |



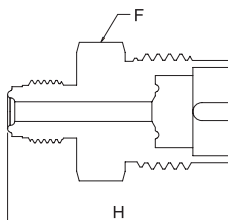
## CGA DISS Series

### OUTLET ADAPTERS AND BLANK PLUGS

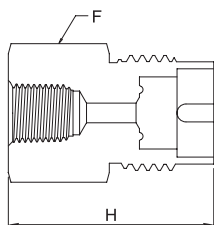
Blank Plug



Faceseal Male



NPT Female

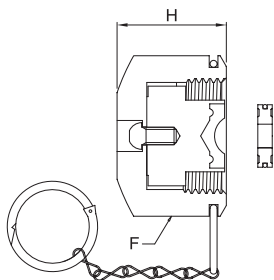


| CGA DISS Number | End Connection     | Part Number  | H Overall Length |      | F Hex Flat |
|-----------------|--------------------|--------------|------------------|------|------------|
|                 |                    |              | in               | mm   |            |
| 632             | Blank Plug         | BKP632-642-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA632-4VM-□ | 2.00             | 50.8 | 1-1/8      |
|                 | 1/4" NPT Female    | OTA632-4NF-□ | 1.85             | 47.0 |            |
| 634             | Blank Plug         | BKP632-642-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA634-4VM-□ | 2.00             | 50.8 | 1-1/8      |
|                 | 1/4" NPT Female    | OTA634-4NF-□ | 1.85             | 47.0 |            |
| 636             | Blank Plug         | BKP632-642-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA636-4VM-□ | 2.00             | 50.8 | 1-1/8      |
|                 | 1/4" NPT Female    | OTA636-4NF-□ | 1.85             | 47.0 |            |
| 638             | Blank Plug         | BKP632-642-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA638-4VM-□ | 2.00             | 50.8 | 1-1/8      |
|                 | 1/4" NPT Female    | OTA638-4NF-□ | 1.85             | 47.0 |            |
| 640             | Blank Plug         | BKP632-642-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA640-4VM-□ | 2.00             | 50.8 | 1-1/8      |
|                 | 1/4" NPT Female    | OTA640-4NF-□ | 1.85             | 47.0 |            |
| 642             | Blank Plug         | BKP632-642-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA642-4VM-□ | 2.00             | 50.8 | 1-1/8      |
|                 | 1/4" NPT Female    | OTA642-4NF-□ | 1.85             | 47.0 |            |
| 712             | Blank Plug         | BKP712-718-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA712-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|                 | 1/4" NPT Female    | OTA712-4NF-□ | 1.85             | 47.0 |            |
| 714             | Blank Plug         | BKP712-718-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA714-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|                 | 1/4" NPT Female    | OTA714-4NF-□ | 1.85             | 47.0 |            |
| 716             | Blank Plug         | BKP712-718-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA716-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|                 | 1/4" NPT Female    | OTA716-4NF-□ | 1.85             | 47.0 |            |
| 718             | Blank Plug         | BKP712-718-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA718-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|                 | 1/4" NPT Female    | OTA718-4NF-□ | 1.85             | 47.0 |            |
| 720             | Blank Plug         | BKP720-728-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA720-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|                 | 1/4" NPT Female    | OTA720-4NF-□ | 1.85             | 47.0 |            |
| 722             | Blank Plug         | BKP720-728-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA722-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|                 | 1/4" NPT Female    | OTA722-4NF-□ | 1.85             | 47.0 |            |
| 724             | Blank Plug         | BKP720-728-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA724-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|                 | 1/4" NPT Female    | OTA724-4NF-□ | 1.85             | 47.0 |            |
| 726             | Blank Plug         | BKP720-728-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA726-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|                 | 1/4" NPT Female    | OTA726-4NF-□ | 1.85             | 47.0 |            |
| 728             | Blank Plug         | BKP720-728-□ | 1.53             | 38.9 |            |
|                 | 1/4" Faceseal Male | OTA728-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|                 | 1/4" NPT Female    | OTA728-4NF-□ | 1.85             | 47.0 |            |

□: BA or EP

## CGA DISS Series

### CYLINDER VALVE OUTLET CAPS (Chain, Ring and Gasket included)



| CGA DISS Number | Assembly Part Number | H Overall Length |      | F Hex Flat | Gasket Part Number (Nickel) | Gasket Part Number (PCTFE) | Gasket Part Number (Aluminum) |
|-----------------|----------------------|------------------|------|------------|-----------------------------|----------------------------|-------------------------------|
|                 |                      | in               | mm   |            |                             |                            |                               |
| 632             | CVOC632-642-□        | .98              | 24.9 | 1-1/4      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 634             | CVOC632-642-□        | .98              | 24.9 | 1-1/4      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 636             | CVOC632-642-□        | .98              | 24.9 | 1-1/4      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 638             | CVOC632-642-□        | .98              | 24.9 | 1-1/4      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 640             | CVOC632-642-□        | .98              | 24.9 | 1-1/4      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 642             | CVOC632-642-□        | .98              | 24.9 | 1-1/4      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 712             | CVOC712-728-□        | .98              | 24.9 | 1-3/8      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 714             | CVOC712-728-□        | .98              | 24.9 | 1-3/8      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 716             | CVOC712-728-□        | .98              | 24.9 | 1-3/8      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 718             | CVOC712-728-□        | .98              | 24.9 | 1-3/8      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 720             | CVOC712-728-□        | .98              | 24.9 | 1-3/8      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 722             | CVOC712-728-□        | .98              | 24.9 | 1-3/8      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 724             | CVOC712-728-□        | .98              | 24.9 | 1-3/8      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 726             | CVOC712-728-□        | .98              | 24.9 | 1-3/8      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |
| 728             | CVOC712-728-□        | .98              | 24.9 | 1-3/8      | DISS-NI-EP                  | DISS-PCTEE                 | DISS-AL                       |

□: BA or EP

# CGA & DIN/JIS DISS Series

## CGA NEJIREN

### CGA Series

|                                   |      |
|-----------------------------------|------|
| NIPPLES .....                     | 8~9  |
| NUTS .....                        | 8~9  |
| WASHERS .....                     | 8~9  |
| INLET CONNECTIONS .....           | 8~19 |
| OUTLET BLANK PLUGS .....          | 10   |
| OUTLET BLANK CAPS .....           | 10   |
| OUTLET ADAPTERS .....             | 10   |
| CYLINDER VALVE OUTLET PLUGS ..... | 11   |
| CYLINDER VALVE OUTLET CAPS .....  | 11   |

### DIN / JIS Series

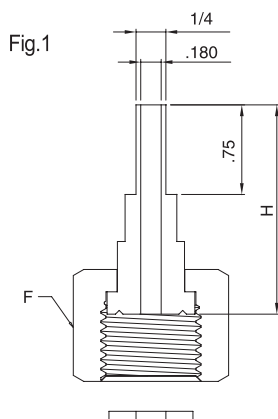
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| COMPLETE PIGTAIL CONNECTIONS ..... | 12 |
|------------------------------------|----|



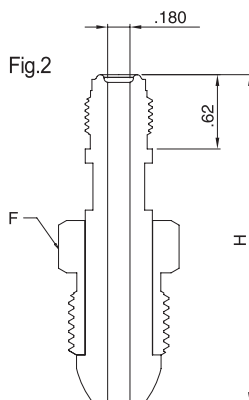
## CGA Series

### INLET CONNECTIONS (Nipple, Nut and Washer included)

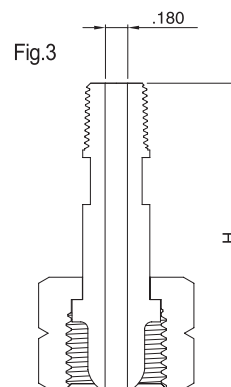
Auto Tube Weld



Faceseal Male



NPT Male



| CGA Number | Ref. DWG Inlet Connection | End Connection      | Assembly Part Number | H Overall Length | Nipple Part Number | Nut Part Number | F Hex Flat | Washer Part Number (PCTFE) | Washer Part Number (PTFE) |
|------------|---------------------------|---------------------|----------------------|------------------|--------------------|-----------------|------------|----------------------------|---------------------------|
| 170        | Fig. 1                    | 1/4" Auto Tube Weld | CGA170A-4TW-□        | 1-1/4            | CGA170-4TW-□       | NUT-170         | 11/16      | -                          | DG-170-T                  |
|            |                           | 1/8" NPT Male       | CGA170A-4NM-□        | 1-1/4            | CGA170-4NM-□       |                 |            |                            |                           |
| 180        | Fig. 1                    | 1/4" Auto Tube Weld | CGA180A-4TW-□        | 1-1/4            | CGA180-4TW-□       | NUT-180         | 3/4        | -                          | DG-180-T                  |
|            |                           | 1/8" NPT Male       | CGA180A-4NM-□        | 1-3/4            | CGA180-4NM-□       |                 |            |                            |                           |
| 290        | Fig. 3                    | 1/4" Auto Tube Weld | CGA290A-4TW-□        | 2-5/8            | CGA290-4TW-□       | NUT-290         | 1          | -                          | -                         |
|            |                           | 1/4" NPT Male       | CGA290A-4NM-□        | 2-1/4            | CGA290-4NM-□       |                 |            |                            |                           |
| 296        | Fig. 2                    | 1/4" Auto Tube Weld | CGA296A-4TW-□        | 2-5/8            | CGA296-4TW-□       | NUT-296         | 7/8        | -                          | -                         |
|            |                           | 1/4" Faceseal Male  | CGA296A-4VM-□        | 2-3/4            | CGA296-4VM-□       |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA296A-4NM-□        | 3-1/2            | CGA296-4NM-□       |                 |            |                            |                           |
| 320        | Fig. 1                    | 1/4" Auto Tube Weld | CGA320A-4TW-□        | 1-3/4            | CGA32-4TW-□        | NUT-320         | 1-1/8      | DG-32-K                    | DG-32-T                   |
|            |                           | 1/4" Faceseal Male  | CGA320A-4VM-□        | 2-3/4            | CGA32-4VM-□        |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA320A-4NM-□        | 3-1/2            | CGA32-4NM-□        |                 |            |                            |                           |
| 326        | Fig. 3                    | 1/4" Auto Tube Weld | CGA326A-4TW-□        | 2-1/4            | CGA326-4TW-□       | NUT-326         | 1-1/8      | -                          | -                         |
|            |                           | 1/4" Faceseal Male  | CGA326A-4VM-□        | 2-1/4            | CGA326-4VM-□       |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA326A-4NM-□        | 3                | CGA326-4NM-□       |                 |            |                            |                           |
| 330        | Fig. 1                    | 1/4" Auto Tube Weld | CGA330A-4TW-□        | 1-3/4            | CGA32-4TW-□        | NUT-330         | 1-1/8      | DG-32K                     | DG-32-T                   |
|            |                           | 1/4" Faceseal Male  | CGA330A-4VM-□        | 1-3/4            | CGA32-4VM-□        |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA330A-4NM-□        | 2-1/2            | CGA32-4NM-□        |                 |            |                            |                           |
| 346        | Fig. 3                    | 1/4" Auto Tube Weld | CGA346A-4TW-□        | 2-5/16           | CGA346-4TW-□       | NUT-346         | 1-1/8      | -                          | -                         |
|            |                           | 1/4" Faceseal Male  | CGA346A-4VM-□        | 2-1/4            | CGA346-4VM-□       |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA346A-4NM-□        | 3                | CGA346-4NM-□       |                 |            |                            |                           |
| 350        | Fig. 3                    | 1/4" Auto Tube Weld | CGA350A-4TW-□        | 2-5/16           | CGA350-4TW-□       | NUT-350         | 1-1/8      | -                          | -                         |
|            |                           | 1/4" Faceseal Male  | CGA350A-4VM-□        | 2-1/4            | CGA350-4VM-□       |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA350A-4NM-□        | 3                | CGA350-4NM-□       |                 |            |                            |                           |

□: BA or EP



## CGA Series

### INLET CONNECTIONS (Nipple, Nut and Washer included) Continued from previous page

| CGA Number | Ref. DWG Inlet Connection | End Connection      | Assembly Part Number | H Overall Length | Nipple Part Number | Nut Part Number | F Hex Flat | Washer Part Number (PCTFE) | Washer Part Number (PTFE) |
|------------|---------------------------|---------------------|----------------------|------------------|--------------------|-----------------|------------|----------------------------|---------------------------|
| 510        | Fig. 2                    | 1/4" Auto Tube Weld | CGA510A-4TW-□        | 2-5/8            | CGA50-4TW-□        | NUT-510         | 1-1/8      | -                          | -                         |
|            |                           | 1/4" Faceseal Male  | CGA510A-4VM-□        | 2-3/4            | CGA50-4VM-□        |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA510A-4NM-□        | 3-1/2            | CGA50-4NM-□        |                 |            |                            |                           |
| 540        | Fig. 3                    | 1/4" Auto Tube Weld | CGA540A-4TW-□        | 2-1/4            | CGA540-4TW-□       | NUT-540         | 1-1/8      | -                          | -                         |
|            |                           | 1/4" Faceseal Male  | CGA540A-4VM-□        | 2-1/4            | CGA540-4VM-□       |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA540A-4NM-□        | 3                | CGA540-4NM-□       |                 |            |                            |                           |
| 580        | Fig. 2                    | 1/4" Auto Tube Weld | CGA580A-4TW-□        | 2-5/8            | CGA50-4TW-□        | NUT-580         | 1-1/8      | -                          | -                         |
|            |                           | 1/4" Faceseal Male  | CGA580A-4VM-□        | 2-3/4            | CGA50-4VM-□        |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA580A-4NM-□        | 3-1/2            | CGA50-4NM-□        |                 |            |                            |                           |
| 590        | Fig. 2                    | 1/4" Auto Tube Weld | CGA590A-4TW-□        | 2-1/2            | CGA50-4TW-□        | NUT-590         | 1-1/8      | -                          | -                         |
|            |                           | 1/4" Faceseal Male  | CGA590A-4VM-□        | 2-3/4            | CGA50-4VM-□        |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA590A-4NM-□        | 3-1/2            | CGA50-4NM-□        |                 |            |                            |                           |
| 660        | Fig. 1                    | 1/4" Auto Tube Weld | CGA660A-4TW-□        | 2-3/16           | CGA60-4TW-□        | NUT-660         | 1-1/4      | DG-60-K                    | DG-60-T                   |
|            |                           | 1/4" Faceseal Male  | CGA660A-4VM-□        | 1-7/8            | CGA60-4VM-□        |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA660A-4NM-□        | 2-1/2            | CGA60-4NM-□        |                 |            |                            |                           |
| 670        | Fig. 1                    | 1/4" Auto Tube Weld | CGA670A-4TW-□        | 2-3/16           | CGA60-4TW-□        | NUT-670         | 1-1/4      | DG-60-K                    | DG-60-T                   |
|            |                           | 1/4" Faceseal Male  | CGA670A-4VM-□        | 1-7/8            | CGA60-4VM-□        |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA670A-4NM-□        | 2-1/2            | CGA60-4NM-□        |                 |            |                            |                           |
| 678        | Fig. 1                    | 1/4" Auto Tube Weld | CGA670A-4TW-□        | 2-1/2            | CGA678-4TW-□       | NUT-678         | 1-1/4      | DG-66-K                    | DG-66-T                   |
|            |                           | 1/4" Faceseal Male  | CGA670A-4VM-□        | 2                | CGA678-4VM-□       |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA670A-4NM-□        | 2-1/2            | CGA678-4NM-□       |                 |            |                            |                           |
| 679        | Fig. 1                    | 1/4" Auto Tube Weld | CGA670A-4TW-□        | 2-1/2            | CGA679-4TW-□       | NUT-679         | 1-1/4      |                            | DG-110-T                  |
|            |                           | 1/4" Faceseal Male  | CGA670A-4VM-□        | 2                | CGA679-4VM-□       |                 |            |                            |                           |
|            |                           | 1/4" NPT Male       | CGA670A-4NM-□        | 3                | CGA679-4NM-□       |                 |            |                            |                           |

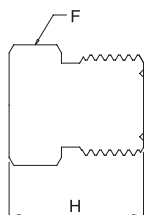
□: BA or EP



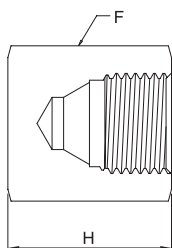
## CGA Series

### OUTLET ADAPTERS AND BLANK PLUGS OR CAPS

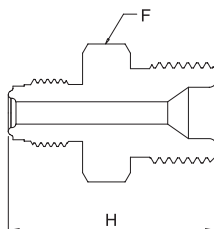
Blank Plug



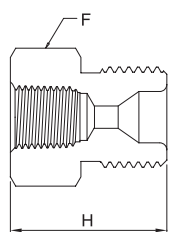
Blank Cap



Face Seal Male



NPT Female

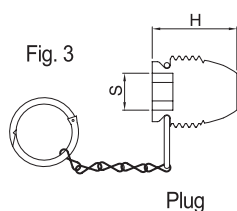
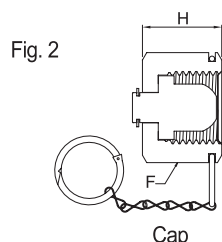
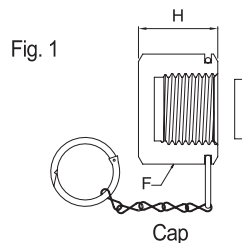


| CGA Number | End Connection      | Part Number   | H Overall Length |      | F Hex Flat |
|------------|---------------------|---------------|------------------|------|------------|
|            |                     |               | in               | mm   |            |
| 296        | Blank Cap           | BKC-296-□     | 1.37             | 34.8 |            |
|            | 1/4" Face Seal Male | OTA-296-4VM-□ | 2.00             | 50.8 | 1-1/8      |
|            | 1/4" NPT Female     | OTA-296-4NF-□ | 2.00             | 50.8 |            |
| 320        | Blank Plug          | BKP-320-□     | 1.12             | 28.4 |            |
|            | 1/4" Face Seal Male | OTA-320-4VM-□ | 1.74             | 44.2 | 1          |
|            | 1/4" NPT Female     | OTA-320-4NF-□ | 1.12             | 28.4 |            |
| 326        | Blank Plug          | BKP-326-□     | 1.12             | 28.4 |            |
|            | 1/4" Face Seal Male | OTA-326-4VM-□ | 1.74             | 44.2 | 1          |
|            | 1/4" NPT Female     | OTA-326-4NF-□ | 1.31             | 33.3 |            |
| 330        | Blank Plug          | BKP-330-□     | 1.12             | 28.4 |            |
|            | 1/4" Face Seal Male | OTA-330-4VM-□ | 1.74             | 44.2 | 1          |
|            | 1/4" NPT Female     | OTA-330-4NF-□ | 1.31             | 33.3 |            |
| 346        | Blank Plug          | BKP-346-□     | 1.12             | 28.4 |            |
|            | 1/4" Face Seal Male | OTA-346-4VM-□ | 1.88             | 47.8 | 1          |
|            | 1/4" NPT Female     | OTA-346-4NF-□ | 1.31             | 33.3 |            |
| 350        | Blank Plug          | BKP-350-□     | 1.12             | 28.4 |            |
|            | 1/4" Face Seal Male | OTA-350-4VM-□ | 1.88             | 47.8 | 1          |
|            | 1/4" NPT Female     | OTA-350-4NF-□ | 1.31             | 33.3 |            |
| 510        | Blank Cap           | BKC-510-□     | 1.37             | 34.8 |            |
|            | 1/4" Face Seal Male | OTA-510-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|            | 1/4" NPT Female     | OTA-510-4NF-□ | 2.00             | 50.8 |            |
| 540        | Blank Plug          | BKP-540-□     | 1.12             | 28.4 |            |
|            | 1/4" Face Seal Male | OTA-540-4VM-□ | 1.87             | 47.5 | 1          |
|            | 1/4" NPT Female     | OTA-540-4NF-□ | 1.25             | 31.8 |            |
| 580        | Blank Cap           | BKC-580-□     | 1.37             | 34.8 |            |
|            | 1/4" Face Seal Male | OTA-580-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|            | 1/4" NPT Female     | OTA-580-4NF-□ | 2.00             | 50.8 |            |
| 590        | Blank Cap           | BKC-590-□     | 1.37             | 34.8 |            |
|            | 1/4" Face Seal Male | OTA-590-4VM-□ | 2.00             | 50.8 | 1-1/4      |
|            | 1/4" NPT Female     | OTA-590-4NF-□ | 2.00             | 50.8 |            |
| 660        | Blank Plug          | BKP-660-□     | 0.88             | 22.4 |            |
|            | 1/4" Face Seal Male | OTA-660-4VM-□ | 1.50             | 38.1 | 1-1/8      |
|            | 1/4" NPT Female     | OTA-660-4NF-□ | 1.25             | 31.8 |            |
| 670        | Blank Plug          | BKP-670-□     | 0.88             | 22.4 |            |
|            | 1/4" Face Seal Male | OTA-670-4VM-□ | 1.50             | 38.1 | 1-1/8      |
|            | 1/4" NPT Female     | OTA-670-4NF-□ | 1.25             | 31.8 |            |
| 678        | Blank Plug          | BKP-678-□     | 1.00             | 25.4 |            |
|            | 1/4" Face Seal Male | OTA-678-4VM-□ | 1.50             | 38.1 | 1-1/8      |
|            | 1/4" NPT Female     | OTA-678-4NF-□ | 1.38             | 35.1 |            |
| 679        | Blank Plug          | BKP-679-□     | 0.88             | 22.4 |            |
|            | 1/4" Face Seal Male | OTA-679-4VM-□ | 1.75             | 44.5 | 1-1/8      |
|            | 1/4" NPT Female     | OTA-679-4NF-□ | 1.25             | 31.8 |            |

□: BA or EP

## CGA Series

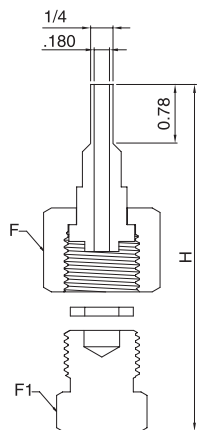
### CYLINDER VALVE OUTLET PLUGS OR CAPS (Chain, Ring and Polyethylene disc included)



| CGA Number | Ref. DWG | Assembly Part Number | H Overall Length |      | F Hex Flat | S Hex Flat | Washer Material   |
|------------|----------|----------------------|------------------|------|------------|------------|-------------------|
|            |          |                      | in               | mm   |            |            |                   |
| 320        | Fig. 1   | CVOC-32              | .54              | 13.7 | 1          | -          | Polyethylene disc |
| 326        | Fig. 1   | CVOC-32              | .54              | 13.7 | 1          | -          | Polyethylene disc |
| 330        | Fig. 1   | CVOC-330             | .54              | 13.7 | 1          | -          | Polyethylene disc |
| 346        | Fig. 1   | CVOC-32              | .54              | 13.7 | 1          | -          | Polyethylene disc |
| 350        | Fig. 2   | CVOC-350             | .82              | 20.8 | 1-1/8      | -          | -                 |
| 510        | Fig. 3   | CVOP-510             | 1                | 25.4 | -          | 3/8        | -                 |
| 580        | Fig. 3   | CVOP-580             | 1                | 25.4 | -          | 3/8        | -                 |
| 590        | Fig. 3   | CVOP-590             | 1                | 25.4 | -          | 3/8        | -                 |
| 660        | Fig. 1   | CVOC-660             | .54              | 13.7 | 1-1/4      | -          | Polyethylene disc |
| 670        | Fig. 1   | CVOC-67              | .54              | 13.7 | 1-1/4      | -          | Polyethylene disc |
| 678        | Fig. 1   | CVOC-67              | .54              | 13.7 | 1-1/4      | -          | Polyethylene disc |
| 679        | Fig. 1   | CVOC-67              | .54              | 13.7 | 1-1/4      | -          | Polyethylene disc |

## DIN Series

### COMPLETE PIGTAIL CONNECTIONS (Nipple, Nut , Washer and Blank Plug included)

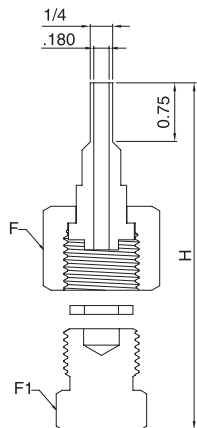


| DIN Number | Assembly Part Number | H Overall Length |      | F Hex Flat | F <sub>1</sub> Hex Flat | Washer Part Number (PTFE) |
|------------|----------------------|------------------|------|------------|-------------------------|---------------------------|
|            |                      | in               | mm   |            |                         |                           |
| 1          | DIN1 A -4TW -T-□     | 2.96             | 75.2 | 1-1/4      | 1-1/4                   | DG-DIN1-T                 |
| 5          | DIN5A-4TW -T-□       | 3.09             | 78.5 | 1-1/4      | 1-1/4                   | DG-DIN5-T                 |
| 6          | DIN6A-4TW -T-□       | 2.96             | 75.2 | 1-1/4      | 1-1/4                   | DG-DIN6-T                 |
| 8          | DIN8A-4TW -T-□       | 3.09             | 78.5 | 1-1/4      | 1-1/4                   | DG-DIN8-T                 |
| 11         | DIN1 1A-4TW -T-□     | 2.88             | 73.2 | 7/8        | 11/16                   | DG-DIN11-T                |
| 14         | DIN14A-4TW -T-□      | 2.88             | 73.2 | 1-1/16     | 7/8                     | DG-DIN14-T                |

□: BA or EP

## JIS Series

### COMPLETE PIGTAIL CONNECTIONS (Nipple, Nut , Washer and Blank Plug included)

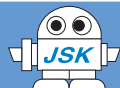


| JIS Number | Assembly Part Number | H Overall Length |      | F Hex Flat mm | F <sub>1</sub> Hex Flat mm | Washer Part Number (PCTFE) |
|------------|----------------------|------------------|------|---------------|----------------------------|----------------------------|
|            |                      | in               | mm   |               |                            |                            |
| 22R        | JIS22RA-4TW -K-□     | 3.25             | 82.6 | 29            | 29                         | DG-JIS22-K                 |
| 22L        | JIS22LA-4TW -K-□     | 3.25             | 82.6 | 29            | 29                         | DG-JIS22-K                 |
| 26R        | JIS26RA-4TW -K-□     | 3.14             | 79.8 | 32            | 32                         | DG-JIS26-K                 |
| 26L        | JIS26LA-4TW -K-□     | 3.14             | 79.8 | 32            | 32                         | DG-JIS26-K                 |

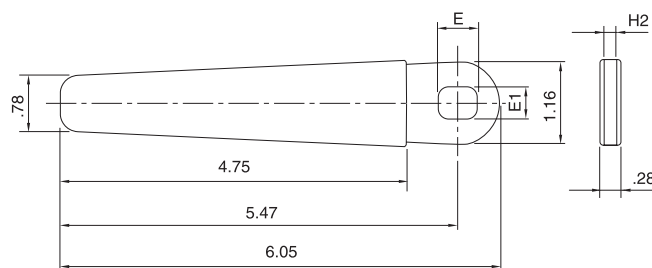
| JIS Number | Nipple part Number | Nut Part Number | Plug Part Number |
|------------|--------------------|-----------------|------------------|
| 22R        | JIS22-4TW -□       | NUT-JIS22R      | BKP-JIS22R       |
| 22L        | JIS22-4TW -□       | NUT-JIS22L      | BKP-JIS22L       |
| 26R        | JIS26-4TW -□       | NUT-JIS26R      | BKP-JIS26R       |
| 26L        | JIS26-4TW -□       | NUT-JIS26L      | BKP-JIS26L       |

□: BA or EP





## PIGTAIL HANDLES



| Part Number |                 | E    | E1<br>Fiat Size |
|-------------|-----------------|------|-----------------|
| PLH 7       | CGA296~CGA590   | 14.8 | 11.5            |
| PLH 9       | CGA 678         | 17.7 | 14.4            |
| PLH10       | CGA 660,670,679 | 19.3 | 16.0            |
| PLH JIS     | JIS             | 18.2 | 11.3            |

Material=304SS



## Gas Connection Assignment Table

| GAS                      | CGA DISS | CGA        | DIN    | JIS          |
|--------------------------|----------|------------|--------|--------------|
| Ammonia                  | 720      | 705        | DIN 6  | 22-R         |
| Argon                    | 718      | 580        | DIN 6  | 22-R or 23-R |
| Arsenic Pentafluoride    | 642      | -          | -      | -            |
| Arsine                   | 632      | 350        | -      | 22-L         |
| Boron Trichloride        | 634      | 660        | DIN 8  | -            |
| Boron Trifluoride        | 642      | 330        | DIN 8  | 22-L         |
| Carbon Dioxide           | 716      | 320        | DIN 6  | -            |
| Carbon Monoxide          | 724      | 350        | DIN 5  | 22-L         |
| Chlorine                 | 728      | -          | DIN 8  | 26-R         |
| Diborane                 | 632      | 350        | -      | 22-L         |
| Dichlorosilane           | 636      | 678        | DIN 5  | -            |
| Diethylzinc              | 726      | 510        | -      | -            |
| Diethyltelluride         | 726      | -          | -      | -            |
| Dimethylzinc             | 726      | -          | -      | -            |
| Disilane                 | 632      | -          | -      | -            |
| Germane                  | 632      | 350 or 660 | -      | -            |
| Halocarbon 11            | 716      | 660        | -      | -            |
| Halocarbon 12            | 716      | 660        | DIN 6  | -            |
| Halocarbon 13            | 716      | 660        | DIN 6  | -            |
| Halocarbon 14            | 716      | 320 or 580 | DIN 6  | -            |
| Halocarbon 23            | 716      | 660        | DIN 6  | -            |
| Halocarbon 115           | 716      | 660        | DIN 6  | -            |
| Halocarbon 116           | 716      | 660        | -      | -            |
| Helium                   | 718      | 580        | DIN 6  | 22-R or 23-R |
| Hydrogen                 | 724      | 350        | DIN 1  | 22-L         |
| Hydrogen Bromide         | 634      | 330        | DIN 8  | 26-R         |
| Hydrogen Chloride        | 634      | 330        | DIN 8  | 26-R         |
| Hydrogen Fluoride        | 638      | 660 or 670 | -      | 26-R         |
| Hydrogen Sulfide         | 722      | 330        | DIN 5  | -            |
| Krypton                  | 718      | 580        | DIN 6  | 22-R or 23-R |
| Neon                     | 718      | 580        | DIN 6  | 22-R or 23-R |
| Nitrogen                 | 718      | 580        | DIN 10 | 22-R or 23-R |
| Nitrogen Trifluoride     | 640      | 330 or 670 | DIN 8  | -            |
| Nitrous Oxide            | 712      | 326        | DIN 8  | -            |
| Oxygen                   | 714      | 540        | DIN 9  | 22-R or 23-R |
| Perfluoropropane         | 716      | 660        | -      | -            |
| Phosphine                | 632      | 350 or 660 | DIN 1  | -            |
| Phosphorus Pentafluoride | 642      | 330 or 660 | -      | -            |
| Silane                   | 632      | 350        | -      | -            |
| Silicon Tetrachloride    | 636      | -          | -      | -            |
| Silicon Tetrafluoride    | 642      | 330        | -      | 22-L         |
| Sulphur Hexafluoride     | 716      | 590        | DIN 6  | 26-R         |
| Trichlorosilane          | 636      | -          | -      | -            |
| Triethylaluminum         | 726      | 510        | -      | -            |
| Tungsten Hexafluoride    | 638      | 670        | DIN 8  | -            |
| Xenon                    | 718      | 580        | DIN 6  | 22-R         |

### \* Gas Connection Assignment Table Sources

- Compressed Gas Association Publication V-1 (1994 Edition)
- Deutscher Institute für Normung 477 Part 1 (May 1990 Edition)
- Japanese Industrial Standard B8244 (Translated) (1989 Edition)
- Japanese Industrial Standard B8246 (Translated) (1989 Edition)
- International Organization for Standardization ISO/DIS 407 (1983 Edition)
- Deutscher Institute für Normung 477 Part 8 (1990 Edition)



*DISS NEJIREN & CGA NEJIREN*  
***Cylinder Connections***



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