

**Aeroquip®**  
1,500 psi PTFE Hose and Assemblies

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## **Aeroquip PTFE Hose Assembly**

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# Aeroquip 1,500 psi PTFE Hose & Assemblies

## 666/667 Medium Pressure — General Characteristics

### Chemical Resistance

Eaton's Aeroquip 666/667 medium pressure PTFE hose is used in hydraulic and pneumatic applications at pressures up to 1500 psi (10,342.5 kPa). The hose is unaffected by all fuels, oils, alcohols, coolants, or solvents commonly used in aircraft. In addition, it is inert to acids both concentrated and diluted. Eaton's non-conductive version (AE116) is suitable for oxidizers and propellants used in the missile field.

The PTFE liner has sufficient conductivity to prevent electrostatically induced hose failures. The tube is capable of conducting a direct current equal to or greater than 6 micro-amps in sizes -4, -5, -6 and -8, and 10 micro-amps in size -10 and above with a potential of 1000 volts.

The method of construction of Eaton's Aeroquip PTFE hoses results in a lower volumetric expansion than any elastomer hose. This assures maximum response efficiency in ballistics ejection systems, and brake systems, where there can be no softness under shock load.

Inherent resiliency and toughness are ensured in the extruded tube by close control of factors affecting crystallinity. Additional structural strength is supplied in Eaton's Aeroquip PTFE hose by the tightly braided stainless steel wire reinforcement. The result is a lightweight hose able to withstand prolonged flexing and vibration under all service

conditions. The extruded tube has a tough, smooth, wax-like texture, which resists erosion. No materials of a sticky or viscous nature will stick to its surface.

PTFE hose has essentially zero moisture absorption. This together with its chemical inertness and anti-adhesive characteristics make it ideal for missile fluid systems where non-contamination and cleanliness are so essential, and for pneumatic systems when maintenance of low dew point is necessary.

Service and shelf life of Eaton's Aeroquip PTFE hose are unlimited for all practical purposes. However, experience has shown that service life on impulsing applications may eventually be limited by fatigue in the wire reinforcement. Maximum service life on such applications is best determined by the operator based on experience. See Eaton product brochure DS100-2.

### Application Data

Eaton's Aeroquip 666/667 medium pressure PTFE hose may be used for all hydrocarbon fuel systems at pressures to 600 psi without qualification. The rate of effusion of gases and resistance to capillary leakage of fluid through the hose lines is controlled by a patented extrusion method used to produce Aeroquip PTFE hose liners.

### Other Special Applications

Eaton's Aeroquip PTFE hose shown in this brochure is rated according to the listed specifications. These various ratings are for specific service conditions involving specified temperature, pressure and impulse conditions. In many cases, a specific rating can be successfully exceeded if other variables are modified. Thus, a higher operating pressure might be allowable if temperature and impulse life are modified or, similarly, operating temperature may be raised if pressure or surge conditions are reduced. Eaton's test facilities and Product Support Engineers are available to help with recommendations for special applications.

### Hose in accordance with MIL-DTL-27267

Operating temperatures -65° to +450°F (-53°C to +232°C) (fluid and ambient)

### Construction

- PTFE inner tube
- Stainless steel reinforcement

### Reinforcement & Outer Cover

- 666 Hose – Type 300 Series stainless steel wire braid outer cover
- 667 Hose – two layers of Type 300 Series stainless steel wire braid

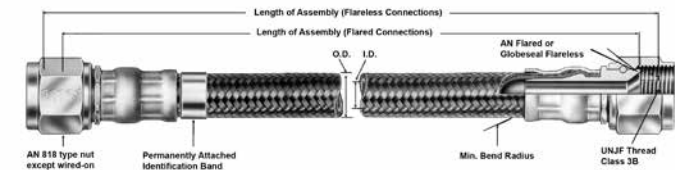
### Identification

Identification bands showing specification number, manufacturers code number, operating pressure and other required information.

### Specification

Aeroquip medium pressure assemblies with 666 and 667 PTFE hose, "*super gem*" fittings and Compression Crimp fittings comply with MIL-H-25579 industry standard for 1500 psi (10,342.5 kPa), high temperature lines for aircraft and missile fluid systems and for ground support use.

# Compression Crimp Fittings



## Compression Crimp Fittings For Use With Aeroquip 666/667 Medium Pressure PTFE Hose

Compression crimp fittings are available in both flared and flareless types to mate with (AS4395) and (AS4375) end connections. In addition, elbow fittings are available in standard 45° and 90° styles. Special elbows, crosses, tees, wyes, adapters, bosses, etc. may be made for customer installations.

The unique combination of the “ramped” nipple and the crimping pattern used on the compression crimp fitting results in superior fitting retention under pressure. Burst pressure tests indicate that extreme pressures will result in “free hose” bursts rather than fitting blow-off. The fitting design effectively traps and holds the wire reinforcement of the hose in the area of the ramp on the fitting nipple.



### Fitting Standard Material Specifications:

|                               |
|-------------------------------|
| Nut — CRES., AMS5639 (304)    |
| Wire — CRES., AMS5685 (305)   |
| Nipple — CRES., AMS5639 (304) |
| Socket — CRES., AMS5565 (304) |

| Dash Size† | Part Number | Hose I.D. (Min. inches/mm) | Hose O.D. (Max. inches/mm) | Fluid Operating Pressure (psi/kPa) | Vacuum Data (Max. inches Hg/mm Hg) | Proof Pressure (psi/kPa) | Room Temp Min. Burst Pressure (psi/kPa) | Min. Bend Radius (inches/mm) | Weight Per Foot (lbs/kg) |
|------------|-------------|----------------------------|----------------------------|------------------------------------|------------------------------------|--------------------------|-----------------------------------------|------------------------------|--------------------------|
| -3         | AE240-3     | .125/3.17                  | .268/6.80                  | 1500/10342                         | 28/711                             | 3000/20,684              | 7500/51,710                             | 1.50/38                      | .041/.019                |
| -4         | 666-4       | .188/4.77                  | .343/8.71                  | 1500/10342                         | 28/711                             | 3000/20,684              | 12,000/82,737                           | 2.00/50                      | .084/.038                |
| -5         | 666-5       | .250/6.35                  | .406/10.31                 | 1500/10342                         | 28/711                             | 3000/20,684              | 10,000/68,947                           | 2.00/50                      | .105/.048                |
| -6         | 666-6       | .313/7.95                  | .469/11.91                 | 1500/10342                         | 28/711                             | 3000/20,684              | 9000/62,052                             | 4.00/101                     | .117/.053                |
| -8         | 666-8       | .406/10.31                 | .585/14.85                 | 1500/10342                         | 28/711                             | 3000/20,684              | 8000/55,158                             | 4.62/117                     | .163/.074                |
| -10        | 666-10      | .500/12.70                 | .687/17.44                 | 1500/10342                         | 28/711                             | 3000/20,684              | 7000/48,263                             | 5.50/139                     | .200/.091                |
| -12        | 666-12      | .630/16.00                 | .812/20.62                 | 1000/6894                          | 28*/711                            | 2000/13,789              | 5000/34,473                             | 6.50/165                     | .252/.114                |
| -16        | 667-16      | .878/22.30                 | 1.140/28.95                | 1250/8618                          | 28*/711                            | 2500/17,236              | 5000/34,473                             | 7.38/187                     | .525/.238                |

\* With internal support coil, contact Eaton  
† Also available in Non-Conductive Hose for gaseous and liquid oxidizing systems.

# Flared Fittings

**Socket**  
AE21498 (Code)



Sockets must be ordered separately under Eaton's Part Number AE21498 (letter size code same as nipple assembly)

|                                | Hose    | Nipple Assembly | Max A     | B         | C        | Nom D      | Min. H    | F/R**     | Thread T  | Hex Y      | Weight lbs/kg |
|--------------------------------|---------|-----------------|-----------|-----------|----------|------------|-----------|-----------|-----------|------------|---------------|
| <br><b>Straight</b>            | AE204-3 | AE21496B        | 1.12/28.4 | .24/6.0   | .34/8.6  | –          | .090/2.2  | –         | .3750-24  | .50/12.70  | .039/.017     |
|                                | 666-4*  | AE21740E        | 1.10/27.9 | .24/6.0   | .34/8.6  | –          | .110/2.7  | –         | .3750-24  | .50/12.70  | .050/.022     |
|                                | 666-4   | AE21496E        | 1.12/28.4 | .25/6.3   | .37/9.3  | –          | .132/3.3  | –         | .4375-20  | .56/14.22  | .050/.022     |
|                                | 666-5   | AE21496F        | 1.26/32.0 | .31/7.8   | .38/9.6  | –          | .193/4.9  | –         | .5000-20  | .62/15.74  | .065/.029     |
|                                | 666-6   | AE21496G        | 1.37/34.7 | .34/8.6   | .38/9.6  |            | .256/6.5  |           | .5625-18  | .69/17.52  | .078/.035     |
|                                | 666-8   | AE21496H        | 1.53/38.8 | .44/11.1  | .43/10.9 |            | .340/8.6  |           | .7500-16  | .88/22.35  | .137/.062     |
|                                | 666-10  | AE21496J        | 1.75/44.5 | .56/14.2  | .50/12.7 |            | .430/10.9 |           | .8750-14  | 1.00/25.40 | .191/.086     |
|                                | 666-12  | AE21496K        | 1.96/49.7 | .46/11.68 | .57/14.4 |            | .548/13.9 |           | 1.0625-12 | 1.25/31.75 | .297/.134     |
|                                | 667-16  | AE21496M        | 2.32/58.9 | .60/15.2  | .60/15.2 |            | .778/19.7 |           | 1.3125-12 | 1.50/38.10 | .464/.210     |
| <br><b>45° Elbow Forged</b>    | AE240-3 | AE21508B        | 1.53/38.8 | .64/16.2  | .34/8.6  | .283/7.1   | .090/2.2  | .438/11.1 | .3750-24  | .50/12.70  | .054/.024     |
|                                | 666-4*  | AE21924E        | 1.50/38.1 | .62/15.7  | .34/8.6  | .283/7.1   | .110/2.7  | .438/11.1 | .3750-24  | .50/12.70  | .055/.025     |
|                                | 666-4   | AE21508E        | 1.54/39.1 | .66/16.7  | .37/9.3  | .322/8.1   | .132/3.3  | .438/11.1 | .4375-20  | .56/14.22  | .065/.029     |
|                                | 666-5   | AE21508F        | 1.70/43.1 | .74/18.7  | .38/9.6  | .334/8.4   | .193/4.9  | .562/14.2 | .5000-20  | .62/15.74  | .098/.044     |
|                                | 666-6   | AE21508G        | 2.06/52.3 | 1.02/25.9 | .38/9.6  | .412/10.4  | .256/6.5  | .562/14.2 | .5625-18  | .69/17.52  | .122/.055     |
|                                | 666-8   | AE21508H        | 2.19/55.6 | 1.08/27.4 | .43/10.9 | .465/11.8  | .340/8.6  | .625/15.8 | .7500-16  | .88/22.35  | .185/.083     |
|                                | 666-10  | AE21508J        | 2.24/56.8 | 1.03/26.1 | .50/12.7 | .536/13.6  | .430/10.9 | .562/14.2 | .8750-14  | 1.00/25.40 | .208/.094     |
|                                | 666-12  | AE21508K        | 2.74/69.5 | 1.22/30.9 | .57/14.4 | .623/15.8  | .548/13.9 | .750/19.0 | 1.0625-12 | 1.25/31.75 | .329/.149     |
| <br><b>45° Elbow Bent Tube</b> | 667-16  | AE21508M        | 3.11/78.9 | 1.36/34.5 | .63/16.0 | .660/16.7  | .778/19.7 | .906/23.0 | 1.3125-12 | 1.50/38.10 | .492/.223     |
| <br><b>90° Elbow Forged</b>    | AE240-3 | AE21514B        | 1.30/33.0 | .41/10.4  | .34/8.6  | .530/13.4  | .090/2.2  | .438/11.1 | .3750-24  | .50/12.70  | .060/.027     |
|                                | 666-4*  | AE21744E        | 1.28/32.5 | .40/10.1  | .34/8.6  | .565/14.3  | .110/2.7  | .438/11.1 | .3750-24  | .50/12.70  | .064/.029     |
|                                | 666-4   | AE21514E        | 1.28/32.5 | .40/10.1  | .37/9.3  | .580/14.7  | .132/3.3  | .438/11.1 | .4375-20  | .56/14.22  | .071/.032     |
|                                | 666-5   | AE21514F        | 1.57/39.8 | .61/15.4  | .38/9.6  | .691/17.5  | .193/4.9  | .562/14.2 | .5000-20  | .62/15.74  | .123/.055     |
|                                | 666-6   | AE21514G        | 1.65/41.9 | .61/15.4  | .38/9.6  | .750/19.0  | .256/6.5  | .562/14.2 | .5625-18  | .69/17.52  | .132/.059     |
|                                | 666-8   | AE21514H        | 1.72/43.6 | .62/15.7  | .43/10.9 | .830/21.0  | .340/8.6  | .625/15.8 | .7500-16  | .88/22.35  | .197/.089     |
|                                | 666-10  | AE21514J        | 2.07/52.5 | .86/21.8  | .50/12.7 | 1.126/28.6 | .430/10.9 | .562/14.2 | .8750-14  | 1.00/25.40 | .220/.099     |
|                                | 666-12  | AE21514K        | 2.61/66.2 | 1.09/27.6 | .57/14.4 | 1.376/34.9 | .548/13.9 | .750/19.0 | 1.0625-12 | 1.25/31.75 | .359/.162     |
| <br><b>90° Elbow Bent Tube</b> | 667-16  | AE21514M        | 3.01/76.4 | 1.27/32.2 | .63/16.0 | 1.500/38.1 | .778/19.7 | .906/23.0 | 1.3125-12 | 1.50/38.10 | .523/.237     |

Dimensions: inches/mm

Note: Fitting weights include sockets

Max. A = maximum length of fitting including socket when fitting is assembled on hose

B = dimension used to determine length of hose (hose cut factor)

Nom. D = nominal drop dimensions — Tolerance is  $\pm .020"$  (.508 mm) on forged fittings and  $\pm .035"$  (1.889 mm) on bent tube fittings.

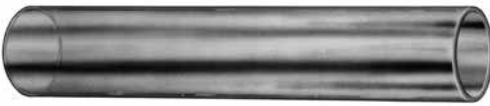
\* Jump Size. For use with -4 hose to mate with -3 connector.

\*\* R = radius of elbow measure to centerline (bent tube)

F = distance across flats (forged)

# Protective Sleeves

To use sleeves shown on this page with 666 Hose assemblies, please contact Eaton Aerospace Product Technical Support.

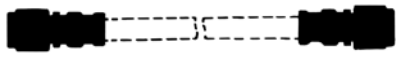
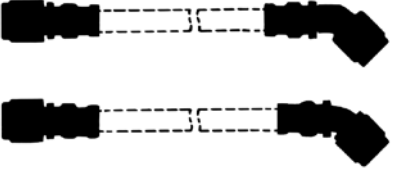
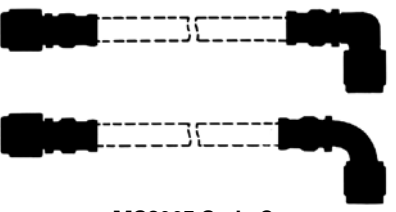
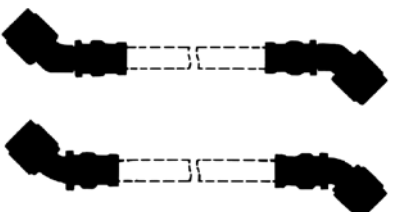
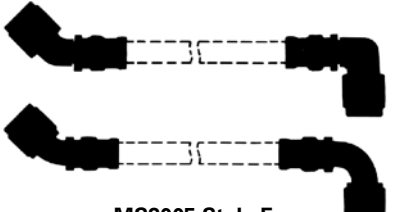
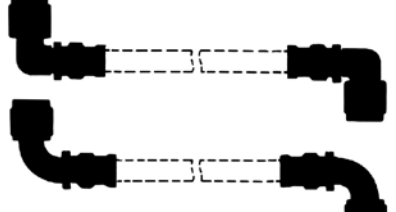
|                                                                                                                                                                                                                                       | Hose Size | Sleeve Size | Sleeve I.D. | Sleeve Gauge | Weight (lbs./kg) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|--------------|------------------|
| <b>AE102/666 (AS1072)</b><br><br><br><br>Silicone Coated (Fibreglass) Firesleeve<br>-65°F to +450°F (-53°C to +232°C)                                 | 666-4     | -8          | .50/12.70   | .125/3.17    | .0093/.0042      |
|                                                                                                                                                                                                                                       | 666-6     | -11         | .69/17.52   | .125/3.17    | .0131/.0059      |
|                                                                                                                                                                                                                                       | 666-8     | -13         | .81/20.57   | .125/3.17    | .0145/.0065      |
|                                                                                                                                                                                                                                       | 666-10    | -14         | .88/22.35   | .125/3.17    | .0155/.0070      |
|                                                                                                                                                                                                                                       | 666-12    | -16         | 1.12/28.44  | .125/3.17    | .0200/.0090      |
|                                                                                                                                                                                                                                       |           |             |             |              |                  |
| <b>AE251 (900961) (AS1073-B)</b><br><br><br><br>Heat Shrinkable Polyolefin Abrasion Sleeve<br>-65°F to +275°F (-53°C to +135°C)                      | 666-4     | -2          | .375/9.52   | .030/.762    | .0018/.0008      |
|                                                                                                                                                                                                                                       | 666-6     | -1          | .375/9.52   | .030/.762    | .0018/.0008      |
|                                                                                                                                                                                                                                       | 666-8     | -3          | .500/12.70  | .035/.889    | .0028/.0012      |
|                                                                                                                                                                                                                                       | 666-10    | -4          | .500/12.70  | .035/.889    | .0028/.0012      |
|                                                                                                                                                                                                                                       | 666-12    | -5          | .750/19.05  | .040/1.01    | .0046/.0020      |
|                                                                                                                                                                                                                                       |           |             |             |              |                  |
| <b>AE208 (900005) (AS1294)</b><br><br><br><br>Nylon Spiral Wrap Abrasion Sleeve<br>-65°F to +200°F (-53°C to +93°C)                                 | 666-4     | -4          | .204/5.18   | .023/.584    | .0007/.0003      |
|                                                                                                                                                                                                                                       | 666-6     | -4          | .204/5.18   | .023/.584    | .0007/.0003      |
|                                                                                                                                                                                                                                       | 666-8     | -10         | .436/11.07  | .032/.812    | .0020/.0009      |
|                                                                                                                                                                                                                                       | 666-10    | -10         | .436/11.07  | .032/.812    | .0020/.0009      |
|                                                                                                                                                                                                                                       | 666-12    | -10         | .436/11.07  | .032/.812    | .0020/.0009      |
|                                                                                                                                                                                                                                       |           |             |             |              |                  |
| <b>AE506 (900179) (AS1291-C)</b><br><br><br><br>Abrasion Sleeve made with Teflon™ FEP 100 fluoroplastic resin<br>-65°F to +400°F (-53°C to +204°C) | 666-4     | -9          | .421/10.69  | .018/.457    | .0017/.0007      |
|                                                                                                                                                                                                                                       | 666-6     | -11         | .484/12.29  | .018/.457    | .0019/.0008      |
|                                                                                                                                                                                                                                       | 666-8     | -13         | .600/15.24  | .018/.457    | .0024/.0010      |
|                                                                                                                                                                                                                                       | 666-10    | -14         | .702/17.83  | .018/.457    | .0028/.0012      |
|                                                                                                                                                                                                                                       | 666-12    | -17         | .945/24.00  | .018/.457    | .0037/.0016      |
|                                                                                                                                                                                                                                       |           |             |             |              |                  |
| <b>AE138 (646) (AS1295)</b><br><br><br><br>Neoprene Tubing Abrasion Sleeve<br>-65°F to +250°F (-53°C to +121°C)                                    | 666-4     | -4          | .328/8.33   | .035/.889    | .0020/.0009      |
|                                                                                                                                                                                                                                       | 666-6     | -8          | .453/11.50  | .035/.889    | .0029/.0013      |
|                                                                                                                                                                                                                                       | 666-8     | -12         | .562/14.27  | .040/1.01    | .0039/.0017      |
|                                                                                                                                                                                                                                       | 666-10    | -16         | .671/17.04  | .040/1.01    | .0046/.0020      |
|                                                                                                                                                                                                                                       | 666-12    | -22         | .843/21.41  | .050/1.27    | .0072/.0032      |
|                                                                                                                                                                                                                                       |           |             |             |              |                  |

Dimensions: inches/mm

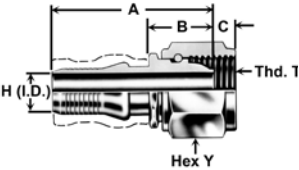
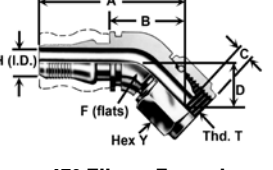
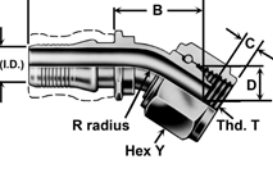
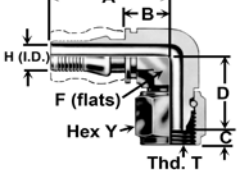
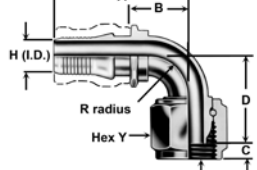
NOTE: Use an abrasion sleeve with AE666 PTFE hose in any application where the braid is subject to possible abrasion. Eaton offers two sleeve styles: AE566 hose with integral polyester chafeguard and AE466 hose with integral silicone firesleeve. See pages 25–28 on the integral polyester chafeguard and pages 29–31 for the integral silicone firesleeve. For more information on these advanced hose styles, contact your nearest Eaton distributor or Eaton sales representative.

# Hose Assemblies/Swivel Flared to Swivel Flared

All hose assemblies shown on this page conform to MS8005. MS style code indicates configuration and material in accordance with MIL-DTL-25579

| A                                                                                                     | B         | Dash Size    | Material | Assembly Base No. | MS Style Code | Nipple A Part No. | Nipple B Part No. |
|-------------------------------------------------------------------------------------------------------|-----------|--------------|----------|-------------------|---------------|-------------------|-------------------|
| <br>MS8005 Style A   |           | -3 -4        | CRES     | AE3660240         | A             | AE21740           | AE21740           |
|                                                                                                       |           | -3 thru -12  | CRES     | AE3660000         | A             | AE21496           | AE21496           |
|                                                                                                       |           | -16          | CRES     | AE3660000         | A             | AE21496           | AE21496           |
| <br>MS8005 Style B   | Forged    | 3- -4        | CRES     | AE3660250         | B             | AE21740           | AE21924           |
|                                                                                                       |           | -3 thru -8   | CRES     | AE3660060         | B             | AE21496           | AE21508           |
|                                                                                                       | Bent Tube | -10 thru -16 | CRES     | AE3660060         | B             | AE21496           | AE21508           |
| <br>MS8005 Style C  | FORGED    | -3 -4        | CRES     | AE3660300         | C             | AE21740           | AE21744           |
|                                                                                                       |           | -3 thru -8   | CRES     | AE3660120         | C             | AE21496           | AE21514           |
|                                                                                                       | BENT TUBE | -10 thru -16 | CRES     | AE3660120         | C             | AE21496           | AE21514           |
| <br>MS8005 Style D | FORGED    | -3 -4        | CRES     | AE6139            | D             | AE21924           | AE21924           |
|                                                                                                       |           | -3 thru -8   | CRES     | AE6000            | D             | AE21508           | AE21508           |
|                                                                                                       | BENT TUBE | -10 thru -16 | CRES     | AE6000            | D             | AE21508           | AE21508           |
| <br>MS8005 Style E | FORGED    | -3 -4        | CRES     | AE6140            | E             | AE21924           | AE21744           |
|                                                                                                       |           | -3 thru -8   | CRES     | AE6020            | E             | AE21508           | AE21514           |
|                                                                                                       | BENT TUBE | -10 thru -16 | CRES     | AE6020            | E             | AE21508           | AE21514           |
| <br>MS8005 Style F | FORGED    | -3 -4        | CRES     | AE6141            | F             | AE21744           | AE21744           |
|                                                                                                       |           | -3 thru -8   | CRES     | AE6040            | F             | AE21514           | AE21514           |
|                                                                                                       | BENT TUBE | -10 thru -16 | CRES     | AE6040            | F             | AE21514           | AE21514           |

# Globeseal® Flareless Fittings

|                                                                                                                      | Hose    | Nipple Assembly | Max A<br>(see notes) | B          | C         | Nom D       |
|----------------------------------------------------------------------------------------------------------------------|---------|-----------------|----------------------|------------|-----------|-------------|
|  <p><b>Straight</b></p>              | AE240-3 | AE21502B        | 1.34/34.03           | 0.47/11.93 | 0.12/3.04 | —           |
|                                                                                                                      | 666-4*  | AE21742E        | 1.34/34.03           | 0.48/12.19 | 0.12/3.04 | —           |
|                                                                                                                      | 666-4   | AE21502E        | 1.34/34.03           | 0.47/11.93 | 0.17/4.31 | —           |
|                                                                                                                      | 666-5   | AE21502F        | 1.49/37.84           | 0.54/13.71 | 0.15/3.81 | —           |
|                                                                                                                      | 666-6   | AE21502G        | 1.60/40.64           | 0.57/14.47 | 0.16/4.06 | —           |
|                                                                                                                      | 666-8   | AE21502H        | 1.82/46.22           | 0.73/18.54 | 0.18/4.57 | —           |
|                                                                                                                      | 666-10  | AE21502J        | 2.06/52.32           | 0.88/22.35 | 0.20/5.08 | —           |
|                                                                                                                      | 666-12  | AE21502K        | 2.40/60.96           | 0.91/23.11 | 0.20/5.08 | —           |
|                                                                                                                      | 667-16  | AE21502M        | 2.84/72.13           | 1.12/28.44 | 0.13/3.03 | —           |
|  <p><b>45° Elbow Forged</b></p>      | AE240-3 | AE21511B        | 1.70/43.18           | 0.82/20.82 | 0.12/3.04 | 0.455/11.55 |
|                                                                                                                      | 666-4*  | AE21925E        | 1.67/42.41           | 0.79/20.06 | 0.12/3.04 | 0.451/11.45 |
|                                                                                                                      | 666-4   | AE21511E        | 1.70/43.18           | 0.82/20.82 | 0.17/4.31 | 0.480/12.19 |
|                                                                                                                      | 666-5   | AE21511F        | 1.87/47.49           | 0.90/22.86 | 0.15/3.81 | 0.499/12.67 |
|                                                                                                                      | 666-6   | AE21511G        | 2.22/56.38           | 1.18/29.97 | 0.16/4.06 | 0.570/14.47 |
|                                                                                                                      | 666-8   | AE21511H        | 2.39/60.70           | 1.28/32.51 | 0.18/4.57 | 0.668/16.96 |
|                                                                                                                      | 666-10  | AE21511J        | 2.49/63.24           | 1.29/32.76 | 0.20/5.08 | 0.793/20.14 |
|                                                                                                                      | 666-12  | AE21511K        | 3.05/77.47           | 1.53/38.86 | 0.20/5.08 | 0.934/23.72 |
|                                                                                                                      | 667-16  | AE21511M        | 3.50/88.90           | 1.75/44.45 | 0.13/3.30 | 1.051/26.69 |
|  <p><b>45° Elbow Bent Tube</b></p> | AE240-3 | AE21517B        | 1.30/33.02           | 0.41/10.41 | 0.12/3.04 | 0.773/19.63 |
|                                                                                                                      | 666-4*  | AE21926E        | 1.28/32.51           | 0.40/10.16 | 0.12/3.04 | 0.808/20.52 |
|                                                                                                                      | 666-4   | AE21517E        | 1.28/32.51           | 0.40/10.16 | 0.17/4.31 | 0.800/20.32 |
|                                                                                                                      | 666-5   | AE21517F        | 1.57/39.87           | 0.61/15.49 | 0.15/3.81 | 0.924/23.46 |
|                                                                                                                      | 666-6   | AE21517G        | 1.65/41.91           | 0.61/15.49 | 0.16/4.03 | 0.978/24.84 |
|                                                                                                                      | 666-8   | AE21517H        | 1.72/43.68           | 0.62/15.74 | 0.18/4.57 | 1.121/28.47 |
|                                                                                                                      | 666-10  | AE21517J        | 2.07/52.57           | 0.86/21.84 | 0.20/5.08 | 1.477/37.51 |
|                                                                                                                      | 666-12  | AE21517K        | 2.61/66.29           | 1.09/27.68 | 0.20/5.08 | 1.816/46.12 |
|                                                                                                                      | 667-16  | AE21517M        | 3.01/76.45           | 1.27/32.25 | 0.13/3.30 | 2.054/52.17 |
|  <p><b>90° Elbow Forged</b></p>    | AE240-3 | AE21517B        | 1.30/33.02           | 0.41/10.41 | 0.12/3.04 | 0.773/19.63 |
|                                                                                                                      | 666-4*  | AE21926E        | 1.28/32.51           | 0.40/10.16 | 0.12/3.04 | 0.808/20.52 |
|                                                                                                                      | 666-4   | AE21517E        | 1.28/32.51           | 0.40/10.16 | 0.17/4.31 | 0.800/20.32 |
|                                                                                                                      | 666-5   | AE21517F        | 1.57/39.87           | 0.61/15.49 | 0.15/3.81 | 0.924/23.46 |
|                                                                                                                      | 666-6   | AE21517G        | 1.65/41.91           | 0.61/15.49 | 0.16/4.03 | 0.978/24.84 |
|                                                                                                                      | 666-8   | AE21517H        | 1.72/43.68           | 0.62/15.74 | 0.18/4.57 | 1.121/28.47 |
|                                                                                                                      | 666-10  | AE21517J        | 2.07/52.57           | 0.86/21.84 | 0.20/5.08 | 1.477/37.51 |
|                                                                                                                      | 666-12  | AE21517K        | 2.61/66.29           | 1.09/27.68 | 0.20/5.08 | 1.816/46.12 |
|                                                                                                                      | 667-16  | AE21517M        | 3.01/76.45           | 1.27/32.25 | 0.13/3.30 | 2.054/52.17 |
|  <p><b>90° Elbow Bent Tube</b></p> | AE240-3 | AE21517B        | 1.30/33.02           | 0.41/10.41 | 0.12/3.04 | 0.773/19.63 |
|                                                                                                                      | 666-4*  | AE21926E        | 1.28/32.51           | 0.40/10.16 | 0.12/3.04 | 0.808/20.52 |
|                                                                                                                      | 666-4   | AE21517E        | 1.28/32.51           | 0.40/10.16 | 0.17/4.31 | 0.800/20.32 |
|                                                                                                                      | 666-5   | AE21517F        | 1.57/39.87           | 0.61/15.49 | 0.15/3.81 | 0.924/23.46 |
|                                                                                                                      | 666-6   | AE21517G        | 1.65/41.91           | 0.61/15.49 | 0.16/4.03 | 0.978/24.84 |
|                                                                                                                      | 666-8   | AE21517H        | 1.72/43.68           | 0.62/15.74 | 0.18/4.57 | 1.121/28.47 |
|                                                                                                                      | 666-10  | AE21517J        | 2.07/52.57           | 0.86/21.84 | 0.20/5.08 | 1.477/37.51 |
|                                                                                                                      | 666-12  | AE21517K        | 2.61/66.29           | 1.09/27.68 | 0.20/5.08 | 1.816/46.12 |
|                                                                                                                      | 667-16  | AE21517M        | 3.01/76.45           | 1.27/32.25 | 0.13/3.30 | 2.054/52.17 |

Dimensions: inches/mm

Max. A = maximum length of fitting including socket when fitting is assembled on hose

B = dimension used to determine length of hose (hose cut factor)

Nom. D = nominal drop dimensions —

Tolerance is ± .020" (.508mm) on forged fittings and ± .035" (.889 mm) on bent tube fittings.

\* Jump Size. For use with -4 hose to mate with -3 connector.

**Socket**  
AE21498  
(Code)



Socket must be ordered separately under Eaton's Part Number AE21498) (letter size code same as nipple assembly

**Distance to Sealing Points**



K = gauge point location per NAS 1760

|                    | Dash Size | Min. H      | K         | F/R**       | Thread T  | Hex Y      | Weight lbs/kg |
|--------------------|-----------|-------------|-----------|-------------|-----------|------------|---------------|
| STRAIGHT FLARELESS | -3        | 0.0908/2.28 | 0.14/3.55 | –           | .3750-24  | 0.50/12.70 | 0.038/.017    |
|                    | -4*       | 0.112/2.84  | 0.14/3.55 | –           | .3750-24  | 0.50/12.70 | 0.040/.018    |
|                    | -4        | 0.132/3.35  | 0.16/4.06 | –           | .4375-20  | 0.56/14.22 | 0.055/.024    |
|                    | -5        | 0.193/4.90  | 0.16/4.06 | –           | .5000-20  | 0.62/15.74 | 0.068/.030    |
|                    | -6        | 0.256/6.50  | 0.16/4.06 | –           | .5625-18  | 0.69/17.52 | 0.095/.043    |
|                    | -8        | 0.340/8.63  | 0.19/4.82 | –           | .7500-16  | 0.88/22.35 | 0.157/.071    |
|                    | -10       | 0.430/10.92 | 0.20/5.08 | –           | .875-14   | 1.00/25.40 | 0.211/.095    |
|                    | -12       | 0.548/13.91 | 0.23/5.84 | –           | 1.0625-12 | 1.25/31.75 | 0.347/.157    |
|                    | -16       | 0.778/19.76 | 0.30/7.62 | –           | 1.3125-12 | 1.50/38.10 | 0.496/.224    |
| 45° FLARELESS      | -3        | 0.090/2.28  | 0.10/2.54 | 0.438/11.12 | .3750-24  | 0.50/12.70 | 0.052/.023    |
|                    | -4*       | 0.112/2.84  | 0.10/2.54 | 0.438/11.12 | .3750-24  | 0.50/12.70 | 0.059/.026    |
|                    | -4        | 0.132/3.35  | 0.11/2.79 | 0.438/11.12 | .4375-20  | 0.56/14.22 | 0.077/.034    |
|                    | -5        | 0.193/4.90  | 0.11/2.79 | 0.562/14.27 | .5000-20  | 0.62/15.74 | 0.102/.046    |
|                    | -6        | 0.256/6.50  | 0.12/3.04 | 0.562/14.27 | .5625-18  | 0.69/17.52 | 0.142/.064    |
|                    | -8        | 0.340/8.63  | 0.13/3.30 | 0.625/15.87 | .7500-16  | 0.88/22.35 | 0.214/.097    |
|                    | -10       | 0.430/10.92 | 0.14/3.55 | 0.562/14.27 | .875-14   | 1.00/25.40 | 0.222/.100    |
|                    | -12       | 0.548/13.91 | 0.16/4.06 | 0.750/19.05 | 1.0625-12 | 1.25/31.75 | 0.352/.159    |
|                    | -16       | 0.778/19.76 | 0.21/5.33 | 0.906/23.01 | 1.3125-12 | 1.50/38.10 | 0.540/.244    |
| 90° FLARELESS      | -3        | 0.090/2.28  | –         | 0.438/11.12 | .3750-24  | 0.50/12.70 | 0.058/.026    |
|                    | -4*       | 0.112/2.84  | –         | 0.438/11.12 | .3750-24  | 0.50/12.70 | 0.068/.030    |
|                    | -4        | 0.132/3.35  | –         | 0.438/11.12 | .4375-20  | 0.56/14.22 | 0.082/.037    |
|                    | -5        | 0.193/4.90  | –         | 0.562/14.27 | .5000-20  | 0.62/15.74 | 0.126/.057    |
|                    | -6        | 0.256/6.50  | –         | 0.562/14.27 | .5625-18  | 0.69/17.52 | 0.153/.069    |
|                    | -8        | 0.340/8.63  | –         | 0.625/15.87 | .7500-16  | 0.88/22.35 | 0.224/.101    |
|                    | -10       | 0.430/10.92 | –         | 0.562/14.27 | .875-14   | 1.00/25.40 | 0.238/.107    |
|                    | -12       | 0.548/13.91 | –         | 0.750/19.05 | 1.0625-12 | 1.25/31.75 | 0.401/.181    |
|                    | -16       | 0.778/19.76 | –         | 0.906/23.01 | 1.3125-12 | 1.50/38.10 | 0.572/.259    |

Dimensions: inches/mm

Note: Fitting weights include sockets

\*Jump Size. For use with -4 hose to mate with -3 connector.

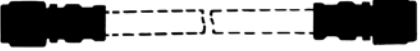
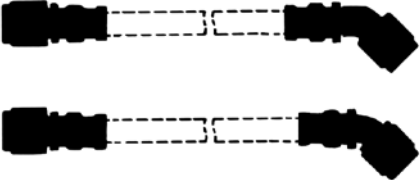
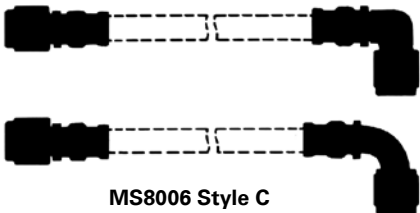
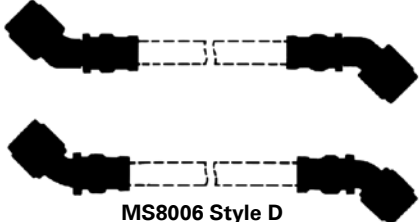
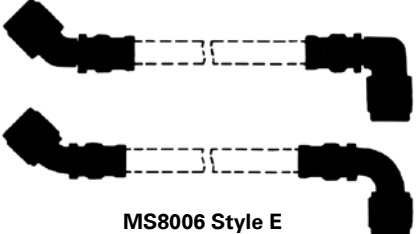
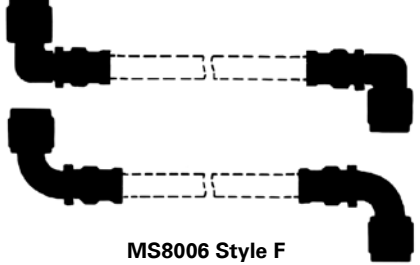
\*\* R = radius of elbow measure to centerline (bent tube)

F = distance across flats (forged)

Refer to images on previous page.

# Hose Assemblies/Swivel Flareless to Swivel Flareless

All hose assemblies shown on this page conform to MS8006.  
MS style code indicates configuration and material. In accordance with MIL-DTL-25579

| A                                                                                                    | B         | Dash Size    | Material | Assembly Base No. | MS Style Code | Nipple A Part No. | Nipple B Part No. |
|------------------------------------------------------------------------------------------------------|-----------|--------------|----------|-------------------|---------------|-------------------|-------------------|
| <br>MS8006 Style A   |           | -3 -4        | CRES     | AE3660310         | A             | AE21742           | AE21742           |
|                                                                                                      |           | -4 thru -12  | CRES     | AE3660010         | A             | AE21502           | AE21502           |
|                                                                                                      |           | -16          | CRES     | AE3660010         | A             | AE21502           | AE21502           |
| <br>MS8006 Style B   | FORGED    | -3 -4        | CRES     | AE3660315         | B             | AE21742           | AE21925           |
|                                                                                                      |           | -4 thru -8   | CRES     | AE3660070         | B             | AE21502           | AE21511           |
|                                                                                                      | BENT TUBE | -10 thru -16 | CRES     | AE3660070         | B             | AE21502           | AE21511           |
| <br>MS8006 Style C  | FORGED    | -3 -4        | CRES     | AE3660325         | C             | AE21742           | AE21926           |
|                                                                                                      |           | -4 thru -8   | CRES     | AE3660130         | C             | AE21502           | AE21517           |
|                                                                                                      | BENT TUBE | -10 thru -16 | CRES     | AE3660130         | C             | AE21502           | AE21517           |
| <br>MS8006 Style D | FORGED    | -3 -4        | CRES     | AE6138            | D             | AE21925           | AE21925           |
|                                                                                                      |           | -4 thru -8   | CRES     | AE6060            | D             | AE21511           | AE21511           |
|                                                                                                      | BENT TUBE | -10 thru -16 | CRES     | AE6060            | D             | AE21511           | AE21511           |
| <br>MS8006 Style E | FORGED    | -3 -4        | CRES     | AE6137            | E             | AE21925           | AE21926           |
|                                                                                                      |           | -4 thru -8   | CRES     | AE6080            | E             | AE21511           | AE21517           |
|                                                                                                      | BENT TUBE | -10 thru -16 | CRES     | AE6080            | E             | AE21511           | AE21517           |
| <br>MS8006 Style F | FORGED    | -3 -4        | CRES     | AE6136            | F             | AE21926           | AE21926           |
|                                                                                                      |           | -4 thru -8   | CRES     | AE6100            | F             | AE21517           | AE21517           |
|                                                                                                      | BENT TUBE | -10 thru -16 | CRES     | AE6100            | F             | AE21517           | AE21517           |

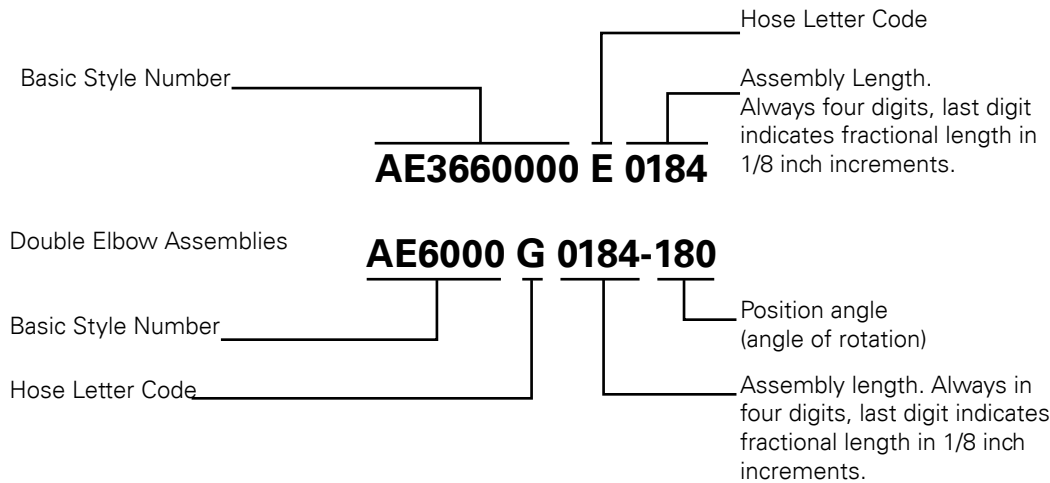
# How To Complete Hose Assembly Part Number

## Basic Assembly Numbers

The basic part number shown here represents standard configurations with materials, markings, and cleaning requirements confirming to MIL-DTL-25579. If your requirements differ from these standards, the hose assemblies you order will be assigned new number by Eaton.

## Rotational Angle Measurement

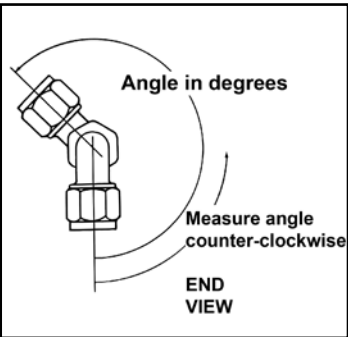
On assemblies with an elbow fitting on each end, measure the position angle as shown above and suffix the angle to the basic style number. In all cases, the angle should be expressed in 3 digits. For example, 35° should be written as 035. If the angle desired is 0°, specify 000.



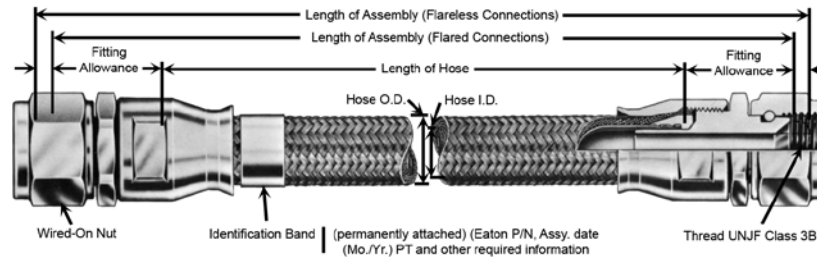
| Hose Dash Size | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 |
|----------------|---|---|---|---|---|----|----|----|
| Letter Code    | B | E | F | G | H | J  | K  | M  |

## Sample Part Number

Straight and single elbow assemblies.



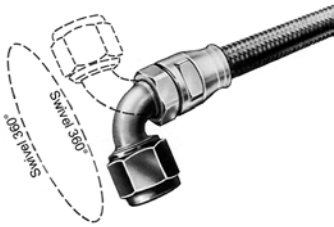
# "super gem" Reusable Fittings



## In Accordance with MIL-DTL-27272

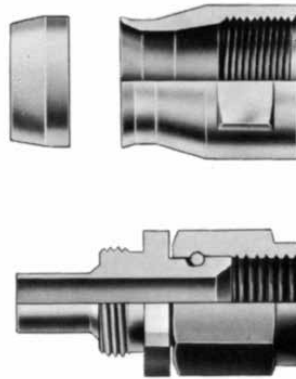
The **"super gem"** fitting provides permanent protection against leakage, even after high temperature aging and impulsing. The reason for this performance lies in the separation of the sealing function from the retention function. A lip seal is formed by the separation of the PTFE tube in an annular chamber, while positive grip on the wire reinforcement between socket and nipple sleeve provides permanent protection against fitting blow-off.

It has a dry lube (Molybdenum disulfide) coating on thread and sealing surfaces. This is a permanent coating and requires no additional lubrication during assembly. It is designed for assembly to gap dimension, which indicates proper assembly. It is available in both flared and flareless types to mate with AS4395 and AS4375 end connections. In addition, elbow fittings are available in standard 45° and 90° styles. Special elbows, crosses, tees, eyes, adapters, bosses, etc. may be made for customer installations.



## Adjustable Elbows

**"super gem"** adjustable elbow fittings are easily positioned through 360° to the desired relative angle between opposite elbow fittings. Mock-up and prototype installation changes are simplified, as the position angle can be determined on the actual installation.



## 3-Piece Fitting

The Eaton Aeroquip medium pressure **"super gem"** reusable fitting consist of 3 pieces:

- Socket
- Sleeve
- Nipple Assembly

**"super gem"**  
fitting standard  
material specifications

|                                        |
|----------------------------------------|
| Nut — CRES., SAE-AMS-QQ-S-763 (304)    |
| Wire — CRES., SAE-AMS-QQ-S-763 (305)   |
| Nipple — CRES., SAE-AMS-QQ-S-763 (304) |
| Socket — CRES., SAE-AMS-QQ-S-763 (304) |

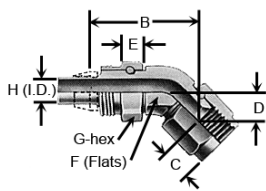
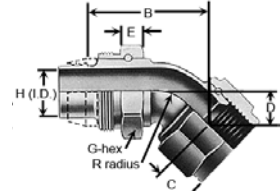
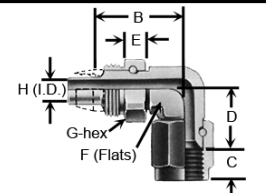
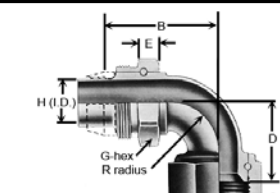
| Dash Size | Part Number | Hose I.D.<br>(inches/<br>mm) | Hose O.D.<br>(inches/<br>mm) | Fluid<br>Operating<br>Pressure<br>(psi/kPa) | Vacuum<br>Data (Max.<br>inches Hg/<br>mm Hg) | Proof<br>Pressure<br>(psi/kPa) | Room Temp<br>Min. Burst<br>Pressure<br>(psi/kPa) | Min. Bend<br>Radius<br>(inches/<br>mm) | Weight per<br>Foot<br>(lbs/kg) |
|-----------|-------------|------------------------------|------------------------------|---------------------------------------------|----------------------------------------------|--------------------------------|--------------------------------------------------|----------------------------------------|--------------------------------|
| -3†       | AE240-3     | .125/3.175                   | .250/6.3                     | 1500/10342                                  | 28/711                                       | 3000/20684                     | 12000/82737                                      | 1.50/38                                | .041/.019                      |
| -4        | 666-4       | .188/4.77                    | .312/7.9                     | 1500/10342                                  | 28/711                                       | 3000/20684                     | 12000/82737                                      | 2.00/50.8                              | .084/.038                      |
| -5        | 666-5       | .250/6.35                    | .375/9.5                     | 1500/10342                                  | 28/711                                       | 3000/20684                     | 10000/68947                                      | 2.00/50.8                              | .105/.048                      |
| -6        | 666-6       | .313/7.9                     | .466/11.8                    | 1500/10342                                  | 28/711                                       | 3000/20684                     | 9000/62052                                       | 4.00/101.6                             | .117/.053                      |
| -8        | 666-8       | .406/10.3                    | .562/14.2                    | 1500/10342                                  | 28/711                                       | 3000/20684                     | 8000/55158                                       | 4.62/117.3                             | .163/.074                      |
| -10       | 666-10      | .500/12.7                    | .656/16.6                    | 1500/10342                                  | 28/711                                       | 3000/20684                     | 7000/48263                                       | 5.50/139.7                             | .200/.091                      |
| -12       | 666-12      | .625/15.87                   | .789/20                      | 1000/10342                                  | 28*/711                                      | 2000/13789                     | 5000/34473                                       | 6.50/165.1                             | .252/.114                      |
| -16       | 667-16      | .875/22.22                   | 1.109/28.1                   | 1250/10342                                  | 28*/711                                      | 2500/17236                     | 5000/34473                                       | 7.38/187.4                             | .525/.238                      |
| -20       | 667-20      | 1.125/28.5                   | 1.359/34.5                   | 1000/6894                                   | 28*/711                                      | 2000/13789                     | 4000/27579                                       | 11.00/279.4                            | .662/.300                      |
| -24       | 667-24      | 1.375/34.9                   | 1.672/42.4                   | 1000/6894                                   | 28*/711                                      | 2000/13789                     | 4000/27579                                       | 14.00/355.5                            | .893/.405                      |

\* With internal support coil, contact Eaton

† Non-Conductive Hose also available in other sizes for gaseous and liquid oxidizing systems.

# “super gem” Swivel Fittings

## Fittings in accordance with MIL-DTL-27272

|                                                                                                                                                 |                                                                                                                                         | ALUM Series      |           | CRES Series      |           |                  |          |           |          |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------|------------------|-----------|------------------|----------|-----------|----------|----------|
|                                                                                                                                                 |                                                                                                                                         | Hose             | Nipple    | Fitting Assembly | Nipple    | Fitting Assembly |          |           |          |          |
| <b>Straight Flared Swivel (mates with AS4395)</b>                                                                                               |                                                                                                                                         | AE240-3          |           | G65000-3         |           | F66000-3         |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-4            | G65008-4  | F66826-4         | G65000-4  | F66000-4         |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-5            | G65008-5  | F66826-5         | G65000-5  | F66000-5         |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-6            | G65008-6  | F66826-6         | G65000-6  | F66000-6         |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-8            | G65008-8  | F66826-8         | G65000-8  | F66000-8         |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-10           | G65008-10 | F66826-10        | G65000-10 | F66000-10        |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-12           | G65008-12 | F66826-12        | G65000-12 | F66000-12        |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 667-16           | G65058-16 | F66821-16        | G65057-16 | F66057-16        |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 667-20           | G65058-20 | F66821-20        | G65057-20 | F66057-20        |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 667-24           | G65058-24 | F66821-24        | G65057-24 | F66057-24        |          |           |          |          |
| <b>Globeseal Flareless Swivel (mates with AS4375)</b>                                                                                           |                                                                                                                                         | AE240-3          |           | G65018-3         |           | F66018-3         |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-4            | G65016-4  | F66840-4         | G65018-4  | F66018-4         |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-5            | G65016-5  | F66840-5         | G65018-5  | F66018-5         |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-6            | G65016-6  | F66840-6         | G65018-6  | F66018-6         |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-8            | G65016-8  | F66840-8         | G65018-8  | F66018-8         |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-10           | G65016-10 | F66840-10        | G65018-10 | F66018-10        |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 666-12           | G65016-12 | F66840-12        | G65018-12 | F66018-12        |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 667-16           | G67022-16 | F62024-16        | G67023-16 | F68023-16        |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 667-20           | G67022-20 | F62024-20        | G67023-20 | F68023-20        |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | 667-24           | G67022-24 | F62024-24        | G67023-24 | F68023-24        |          |           |          |          |
| <b>Flared Elbows (adjustable)</b>                                                                                                               |                                                                                                                                         | AE240-3          |           | G6533-3          |           | F6633-3          |          |           |          |          |
|  <p>45°<br/>MS27067 nipple<br/>*MS27059 fitting assembly</p> |  <p>MS27063 nipple<br/>*MS27055 fitting assembly</p> | <b>FORGED</b>    | 666-4     | G6529-4          | F66555-4  | G6533-4          | F6633-4  |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 666-5     | G6529-5          | F66555-5  | G6533-5          | F6633-5  |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 666-6     | G6529-6          | F66555-6  | G6533-6          | F6633-6  |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 666-8     | G6529-8          | F66555-8  | G6533-8          | F6633-8  |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | <b>BENT TUBE</b> | 666-10    | G6530-10         | F66532-10 | G6534-10         | F6634-10 |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 666-12    | G6530-12         | F66532-12 | G6534-12         | F6634-12 |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 667-16    | G6563-16         | F66533-16 | G6562-16         | F6679-16 |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 667-20    | G6563-20         | F66533-20 | G6562-20         | F6679-20 |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | <b>FORGED</b>    | 667-24    | G6563-24         | F66533-24 | G6562-24         | F6679-24 |           |          |          |
|  <p>90°<br/>MS27068 nipple<br/>*MS27060 fitting assembly</p> |  <p>MS27065 nipple<br/>*MS27057 fitting assembly</p> |                  | AE240-3   | G6505-3          |           | F6605-3          |          |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 666-4     | G6531-4          | F6699-4   | G6505-4          | F6605-4  |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 666-5     | G6531-5          | F6699-5   | G6505-5          | F6605-5  |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 666-6     | G6531-6          | F6699-6   | G6505-6          | F6605-6  |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | <b>BENT TUBE</b> | 666-8     | G6531-8          | F6699-8   | G6505-8          | F6605-8  |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 666-10    | G6532-10         | F6653-10  | G6506-10         | F6606-10 |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 666-12    | G6532-12         | F6653-12  | G6506-12         | F6606-12 |           |          |          |
|                                                                                                                                                 |                                                                                                                                         |                  | 667-16    | G6561-16         | F66535-16 | G6560-16         | F6677-16 |           |          |          |
|                                                                                                                                                 |                                                                                                                                         | <b>BENT TUBE</b> |           |                  |           | 667-20           | G6561-20 | F66535-20 | G6560-20 | F6677-20 |
|                                                                                                                                                 |                                                                                                                                         |                  |           |                  |           | 667-24           | G6561-24 | F66535-24 | G6560-24 | F6677-24 |

\*Add — (size) to MS number. If material is to be CRES, add suffix “C” to size.

# “super gem” Swivel Fittings

## Fittings in accordance with MIL-DTL-27272

Refer to images on previous page.

|                     |           | — — — — Weight — — — —<br>(lbs./kg) |           |            |                   |           |             |           |           |            |
|---------------------|-----------|-------------------------------------|-----------|------------|-------------------|-----------|-------------|-----------|-----------|------------|
|                     | Dash Size | CRES                                | Alum      | Max. A     | Fitting Cut-Off B | C         | Nominal D   | E         | F         | G          |
| STRAIGHT, FLARED    | -3        | .047/.021                           | .024/.010 | 1.15/29.21 | .70/17.78         | .34/8.63  | —           | .12/3.04  | —         | .50/12.70  |
|                     | -4        | .069/.031                           | .038/.017 | 1.35/34.29 | .74/18.79         | .37/9.39  | —           | .12/3.04  | —         | .56/14.22  |
|                     | -5        | .086/.039                           | .046/.020 | 1.41/35.81 | .77/19.55         | .38/9.65  | —           | .12/3.04  | —         | .62/15.74  |
|                     | -6        | .106/.048                           | .057/.025 | 1.47/37.33 | .81/20.57         | .38/9.65  | —           | .14/3.55  | —         | .69/17.52  |
|                     | -8        | .198/.089                           | .111/.050 | 1.70/43.18 | .93/23.62         | .43/10.92 | —           | .15/3.81  | —         | .88/22.35  |
|                     | -10       | .283/.128                           | .157/.071 | 1.86/47.24 | 1.05/26.67        | .50/12.70 | —           | .17/4.31  | —         | 1.00/25.40 |
|                     | -12       | .374/.016                           | .196/.088 | 1.93/19.02 | 1.13/28.70        | .57/14.47 | —           | .19/4.82  | —         | 1.25/31.75 |
|                     | -16       | .658/.298                           | .345/.156 | 2.15/54.61 | 1.30/33.02        | .60/15.24 | —           | .22/5.58  | —         | 1.50/38.10 |
|                     | -20       | 1.085/.492                          | .606/.274 | 2.52/64.00 | 1.44/36.57        | .64/16.25 | —           | .28/7.11  | —         | 1.81/45.97 |
|                     | -24       | 1.742/.790                          | .880/.399 | 2.71/68.83 | 1.66/42.16        | .74/18.79 | —           | .28/7.11  | —         | 2.12/53.84 |
| STRAIGHT, FLARELESS | -3        | .048/.021                           | .017/.007 | 1.37/34.79 | .92/23.36         | .13/3.30  | —           | .22/5.58  | —         | .44/11.17  |
|                     | -4        | .072/.032                           | .022/.010 | 1.50/38.10 | .89/22.60         | .22/5.58  | —           | .23/5.84  | —         | .56/14.22  |
|                     | -5        | .900/.408                           | .038/.017 | 1.57/39.87 | .93/23.62         | .22/5.58  | —           | .25/6.35  | —         | .62/15.74  |
|                     | -6        | .114/.051                           | .044/.020 | 1.68/42.67 | 1.02/25.90        | .19/4.82  | —           | .27/6.85  | —         | .69/17.52  |
|                     | -8        | .210/.095                           | .080/.036 | 1.92/48.76 | 1.16/29.46        | .21/5.33  | —           | .31/7.87  | —         | .88/22.35  |
|                     | -10       | .305/.138                           | .093/.042 | 2.14/54.35 | 1.32/33.52        | .24/6.09  | —           | .31/7.87  | —         | 1.00/25.40 |
|                     | -12       | .452/.205                           | .164/.074 | 2.21/56.13 | 1.40/35.56        | .31/7.87  | —           | .36/9.14  | —         | 1.12/28.44 |
|                     | -16       | .677/.307                           | .250/.113 | 2.42/61.46 | 1.58/40.13        | .32/8.12  | —           | .41/10.41 | —         | 1.50/38.10 |
|                     | -20       | 1.187/.538                          | .396/.179 | 2.79/70.86 | 1.72/43.68        | .37/9.39  | —           | .44/11.17 | —         | 1.81/45.97 |
|                     | -24       | 1.680/.762                          | .646/.293 | 3.09/78.48 | 2.07/52.57        | .33/8.38  | —           | .50/12.70 | —         | 2.12/53.84 |
| 45° FLARED          | 3         | .055/.024                           | .030/.013 | 1.55/39.37 | 1.08/27.43        | .34/8.63  | .283/7.18   | .22/5.58  | .44/11.17 | .44/11.17  |
|                     | -4        | .079/.035                           | .055/.024 | 1.81/45.97 | 1.18/29.97        | .37/9.39  | .322/8.17   | .23/5.84  | .44/11.17 | .56/14.22  |
|                     | -5        | .106/.048                           | .070/.031 | 1.88/47.75 | 1.22/30.98        | .38/9.65  | .340/8.63   | .25/6.35  | .56/14.22 | .62/15.74  |
|                     | -6        | .125/.056                           | .080/.036 | 1.97/50.03 | 1.29/32.76        | .38/9.65  | .389/9.88   | .27/6.85  | .56/14.22 | .69/17.52  |
|                     | -8        | .241/.109                           | .144/.065 | 2.58/65.53 | 1.79/45.46        | .43/10.92 | .465/11.81  | .31/7.87  | .62/15.74 | .88/22.35  |
|                     | -10       | .319/.144                           | .178/.080 | 2.43/61.72 | 1.58/40.13        | .50/12.70 | .536/13.61  | .31/7.87  | —         | 1.00/25.40 |
|                     | -12       | .480/.217                           | .249/.112 | 2.89/73.40 | 2.05/52.07        | .57/14.47 | .623/15.82  | .36/9.14  | —         | 1.12/28.44 |
|                     | -16       | .758/.343                           | .404/.183 | 3.02/76.70 | 2.14/54.35        | .63/16.00 | .660/16.76  | .41/10.41 | —         | 1.50/38.10 |
|                     | -20       | 1.223/.554                          | .63/.288  | 3.52/89.40 | 2.42/61.46        | .64/16.25 | .768/19.50  | .44/11.17 | —         | 1.81/45.97 |
|                     | -24       | 1.828/.829                          | .736/.333 | 3.83/97.28 | 2.75/69.85        | .77/19.55 | .867/22.02  | .50/12.70 | —         | 2.12/53.84 |
| 90° FLARED          | -3        | .073/.033                           | .036/.016 | 1.33/33.78 | .86/21.84         | .34/8.63  | .530/13.46  | .22/5.58  | .44/11.17 | .44/11.17  |
|                     | -4        | .098/.044                           | .056/.025 | 1.54/39.11 | .91/23.11         | .37/9.39  | .580/14.73  | .23/5.84  | .44/11.17 | .56/14.22  |
|                     | -5        | .138/.062                           | .075/.034 | 1.63/41.40 | .97/24.63         | .38/9.65  | .655/16.63  | .25/6.35  | .56/14.22 | .62/15.74  |
|                     | -6        | .160/.072                           | .091/.041 | 1.71/43.43 | 1.03/26.16        | .38/9.65  | .720/18.28  | .27/6.87  | .56/14.22 | .69/17.52  |
|                     | -8        | .288/.130                           | .148/.067 | 2.09/53.08 | 1.31/33.27        | .43/10.92 | .830/21.08  | .31/7.87  | .62/15.74 | .88/22.35  |
|                     | -10       | .331/.150                           | .180/.081 | 2.26/57.40 | 1.41/35.81        | .50/12.70 | 1.126/28.60 | .31/7.87  | —         | 1.00/25.40 |
|                     | -12       | .498/.041                           | .262/.118 | 2.76/70.10 | 1.92/48.76        | .57/14.47 | 1.376/34.95 | .36/9.14  | —         | 1.12/28.44 |
|                     | -16       | .786/.356                           | .419/.190 | 2.93/74.42 | 2.05/52.07        | .63/16.00 | 1.500/38.10 | .41/10.41 | —         | 1.50/38.10 |
|                     | -20       | 1.272/.577                          | .659/.298 | 3.45/87.63 | 2.34/59.43        | .64/13.25 | 1.782/45.26 | .44/11.17 | —         | 1.81/45.97 |
|                     | -24       | 1.922/.871                          | .749/.339 | 3.77/95.75 | 2.68/68.07        | —         | 2.032/51.61 | .50/12.70 | —         | 2.12/53.84 |

All dimensions in inches/mm.

Nom. D = nominal drop dimensions - Tolerance is ± .020"(.508 mm) on forged fittings and ± .035"(.889 mm) on bent tube fittings.

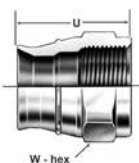
F = distance across forging flats

**Socket: Flat**

MS27069 -(size) C

666 Hose: F506-(size) C

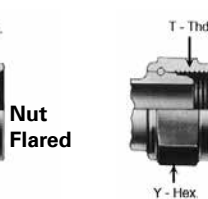
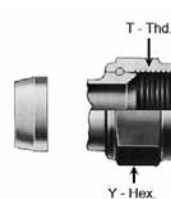
667 Hose: F756-(size) C

**Sleeve**

MS27070 -(size) C

666 Hose: 900767-(size) C

667 Hose: 900867-(size) C

**Nut  
Flared****Nut Flareless**

Refer to images on page 13.

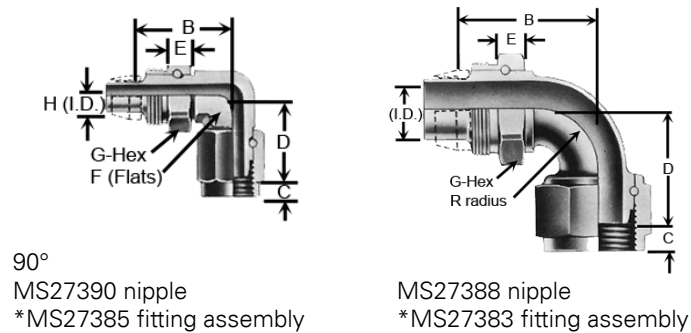
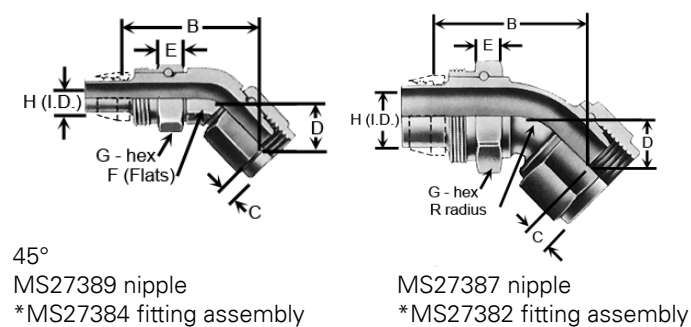
|                            |           |             | -----Socket----- |             |             |             | -----Nut-----     |             |
|----------------------------|-----------|-------------|------------------|-------------|-------------|-------------|-------------------|-------------|
|                            | Dash Size | Min. H      | R                | U           | V           | W           | Thread T          | Hex Y       |
| <b>STRAIGHT, FLARED</b>    | -3        | .090/2.28   | —                | .62 5/15.74 | .505/13.20  | .438/11.17  | .3750-24 UNJF-3B  | .490/12.70  |
|                            | -4        | .161/4.08   | —                | .806/20.57  | .649/16.76  | .562/14.22  | .4375-20 UNJF-3B  | .557/14.22  |
|                            | -5        | .224/5.68   | —                | .834/21.08  | .722/18.54  | .625/15.74  | .5000-20 UNJF-3B  | .620/15.74  |
|                            | -6        | .261/6.62   | —                | .853/21.59  | .791/20.57  | .688/17.52  | .5625-18 UNJF-3B  | .692/17.52  |
|                            | -8        | .345/8.76   | —                | .979/24.89  | 1.010/25.90 | .875/22.35  | .7500-16 UNJF-3B  | .870/22.35  |
|                            | -10       | .440/11.17  | —                | 1.080/27.43 | 1.155/29.71 | 1.00/25.40  | .8750-14 UNJF-3B  | .995/25.40  |
|                            | -12       | .560/14.22  | —                | 1.152/29.21 | 1.299/33.27 | 1.125/28.44 | 1.0625-12 UNJ-3B  | 1.253/31.75 |
|                            | -16       | .828/21.03  | —                | 1.255/32.00 | 1.732/44.19 | 1.50/31.80  | 1.3125-12 UNJ-3B  | 1.495/31.80 |
|                            | -20       | 1.058/26.87 | —                | 1.510/38.35 | 2.165/55.37 | 1.875/47.75 | 1.6250-12 UNJ-3B  | 1.812/45.97 |
|                            | -24       | 1.282/32.51 | —                | 1.582/40.13 | 2.454/62.48 | 2.125/53.84 | 1.8750-12 UNJ-3B  | 2.125/53.84 |
| <b>STRAIGHT, FLARELESS</b> | -3        | .090/2.28   | —                | .625/15.74  | .505/13.20  | .438/11.17  | .3750-24 UNJF-3G  | .490/12.70  |
|                            | -4        | .161/4.08   | —                | .806/20.57  | .649/16.76  | .562/14.22  | .4375-20 UNJF-3G  | .557/14.22  |
|                            | -5        | .224/5.68   | —                | .834/21.08  | .722/18.54  | .625/15.74  | .5000-20 UNJF-3G  | .620/15.74  |
|                            | -6        | .261/6.62   | —                | .853/21.59  | .791/20.57  | .688/17.52  | .5625-18 UNJF-3G  | .682/17.52  |
|                            | -8        | .345/8.76   | —                | .979/24.89  | 1.010/25.90 | .875/22.35  | .7500-16 UNJF-3G  | .870/22.35  |
|                            | -10       | .440/11.17  | —                | 1.080/27.43 | 1.155/29.71 | 1.00/25.40  | .8750-14 UNJF-3G  | .995/25.40  |
|                            | -12       | .560/14.22  | —                | 1.152/29.21 | 1.299/33.27 | 1.125/28.44 | 1.0625-12 UNJ-3B  | 1.245/31.75 |
|                            | -16       | .828/21.03  | —                | 1.255/32.00 | 1.732/44.19 | 1.50/31.80  | 1.3125-12 UNJ-3B  | 1.495/31.80 |
|                            | -20       | 1.058/26.87 | —                | 1.510/38.35 | 2.165/55.37 | 1.875/47.75 | 1.6250-12 UNJ-3B  | 1.812/45.97 |
|                            | -24       | 1.282/32.51 | —                | 1.582/40.13 | 2.454/62.48 | 2.125/53.84 | 1.8750-12 UNJ-3B  | 2.125/53.84 |
| <b>45° FLARED</b>          | 3         | .090/2.28   | —                | .625/15.74  | .505/13.20  | .438/11.17  | .3750-24 UNJF-3B  | .490/12.70  |
|                            | -4        | .160/4.06   | —                | .806/20.57  | .649/16.76  | .562/14.22  | .4375-20 UNJF-3B  | .557/14.22  |
|                            | -5        | .220/5.58   | —                | .834/21.08  | .722/18.54  | .625/15.74  | .5000-20 UNJF-3B  | .620/15.74  |
|                            | -6        | .261/6.62   | —                | .853/21.59  | .791/20.57  | .688/17.52  | .5625-18 UNJF-3B  | .682/17.52  |
|                            | -8        | .345/8.76   | —                | .979/24.89  | 1.010/25.90 | .875/22.35  | .7500-16 UNJF-3B  | .870/22.35  |
|                            | -10       | .440/11.17  | .62/15.74        | 1.080/27.43 | 1.155/29.71 | 1.00/25.40  | .8750-14 UNJF-3B  | .995/25.40  |
|                            | -12       | .560/14.22  | .84/21.33        | 1.152/29.21 | 1.299/33.27 | 1.125/28.44 | 1.0625-12 UNJ-3B  | 1.245/31.75 |
|                            | -16       | .828/21.03  | .97/24.63        | 1.255/32.00 | 1.732/44.19 | 1.50/31.80  | 1.3125-12 UNJ-3B  | 1.495/31.80 |
|                            | -20       | 1.058/26.87 | 1.19/30.22       | 1.510/38.35 | 2.165/55.37 | 1.875/47.75 | 1.6250-12 UNJ-3B  | 1.812/45.97 |
|                            | -24       | 1.253/31.82 | 1.38/35.05       | 1.580/40.13 | 2.454/62.48 | 2.125/53.84 | 1.8750-12 UNJ-3B  | 2.125/53.84 |
| <b>90° FLARED</b>          | -3        | .090/2.28   | —                | .625/15.74  | .505/13.20  | .438/11.17  | .3750-24 UNJF-3B  | .490/12.70  |
|                            | -4        | .160/4.06   | —                | .806/20.57  | .649/16.76  | .562/14.22  | .4375-20 UNJF-3B  | .557/14.22  |
|                            | -5        | .220/5.58   | —                | .834/21.08  | .722/18.54  | .625/15.74  | .5000-20 UNJF-3B  | .620/15.74  |
|                            | -6        | .261/6.62   | —                | .853/21.59  | .791/20.57  | .688/17.52  | .5625-18 UNJF-3B  | .682/17.52  |
|                            | -8        | .345/8.76   | —                | .979/24.89  | 1.010/25.90 | .875/22.35  | .7500-16 UNJF-3B  | .870/22.35  |
|                            | -10       | .440/11.17  | .62/15.74        | 1.080/27.43 | 1.155/29.71 | 1.00/25.40  | .8750-14 UNJF-3B  | .995/25.40  |
|                            | -12       | .560/14.22  | .84/21.33        | 1.152/29.21 | 1.299/33.27 | 1.125/28.44 | 1.0625-12 UNJF-3B | 1.245/31.75 |
|                            | -16       | .828/21.03  | .97//24.63       | 1.255/32.00 | 1.732/44.19 | 1.50/31.80  | 1.3125-12 UNJ-3B  | 1.495/31.80 |
|                            | -20       | 1.058/26.87 | 1.19/30.22       | 1.510/38.35 | 2.165/55.37 | 1.875/47.75 | 1.6250-12 UNJ-3B  | 1.812/45.97 |
|                            | -24       | 1.253/31.82 | 1.38/35.05       | 1.580/40.13 | 2.454/62.48 | 2.125/53.84 | 1.8750-12 UNJ-3B  | 2.125/53.84 |

Dimensions: inches/mm

R = radius of elbow measured to center line

# “super gem” Swivel Nut Globeseal Flareless & 4 Hole Flanged Elbows Fittings in accordance with MIL-DTL-27272

## Globeseal Flareless Elbows



|                  | Hose    | ALUM Series |               | CRES Series |               |
|------------------|---------|-------------|---------------|-------------|---------------|
|                  |         | Nipple      | Fitting Assy. | Nipple      | Fitting Assy. |
| <b>FORGED</b>    | AE240-3 |             |               | G65113-3    | F66113-3      |
|                  | 666-4   | G65114-4    | F62124-4      | G65113-4    | F66113-4      |
|                  | 666-5   | G65114-5    | F62124-5      | G65113-5    | F66113-3      |
|                  | 666-6   | G65114-6    | F62124-6      | G65113-6    | F66113-6      |
|                  | 666-8   | G65114-8    | F62124-8      | G65113-8    | F66113-8      |
| <b>BENT TUBE</b> | 666-10  | G65102-10   | F62148-10     | G65101-10   | F66101-10     |
|                  | 666-12  | G65102-12   | F62148-12     | G65101-12   | F66101-12     |
|                  | 667-16  | G65396-16   | F62151-16     | G65421-16   | F66421-16     |
|                  | 667-20  | G65396-20   | F62151-20     | G65421-20   | F66421-20     |
|                  | 667-24  | G65396-24   | F62151-24     | G65421-24   | F66421-24     |
| <b>FORGED</b>    | AE240-3 |             |               | G65104-3    | F66104-3      |
|                  | 666-4   | G65117-4    | F66631-4      | G65104-4    | F66104-4      |
|                  | 666-5   | G65117-5    | F66631-5      | G65104-5    | F66104-5      |
|                  | 666-6   | G65117-6    | F66631-6      | G65104-6    | F66104-6      |
|                  | 666-8   | G65117-8    | F66631-8      | G65104-8    | F66104-8      |
| <b>BENT TUBE</b> | 666-10  | G65116-10   | F66693-10     | G65103-10   | F66103-10     |
|                  | 666-12  | G65116-12   | F66693-12     | G65103-12   | F66103-12     |
|                  | 667-16  | G65397-16   | F66746-16     | G65422-16   | F662422-16    |
|                  | 667-20  | G65397-20   | F66746-20     | G65422-20   | F66422-20     |
|                  | 667-24  | G65397-24   | F66746-24     | G65422-24   | F66422-24     |

## 4-Hole Flanged Elbows



|                      | Hose   | ALUM Series |               | CRES Series |               |
|----------------------|--------|-------------|---------------|-------------|---------------|
|                      |        | Nipple      | Fitting Assy. | Nipple      | Fitting Assy. |
| <b>STRAIGHT TUBE</b> | 666-8  | G61010-8    | F2010-8       | G61008-8    | F62008-8      |
|                      | 666-10 | G61010-10   | F6210-10      | G61008-10   | F62008-10     |
|                      | 666-12 | G61010-12   | F6210-12      | G61008-12   | F62008-12     |
|                      | 667-16 | G61009-16   | F62009-16     | G61007-16   | F62007-16     |
|                      | 667-20 | G61109-20   | F62009-20     | G61007-20   | F62007-20     |
|                      | 667-24 | †G61009-24  | F62009-24     | †G61007-24  | F62007-24     |
| <b>BENT TUBE</b>     | 666-8  | G65119-8    | F66722-8      | G65121-8    | F66121-8      |
|                      | 666-10 | G65119-10   | F66722-10     | G65121-10   | F66121-10     |
|                      | 666-12 | G65119-12   | F66722-12     | G65121-12   | F66121-12     |
|                      | 667-16 | G65193-16   | F66513-16     | G65244-16   | F66244-16     |
|                      | 667-20 | G653193-20  | F66513-20     | G65244-20   | F66244-20     |
|                      | 667-24 | †G65193-24  | F66513-24     | †G65244-24  | F66244-24     |
| <b>BENT TUBE</b>     | 666-8  | G65120-8    | F66723-8      | G65122-8    | F66122-8      |
|                      | 666-10 | G65120-10   | F66723-10     | G65122-10   | F66122-10     |
|                      | 666-12 | G65120-12   | F66723-12     | G65122-12   | F66122-12     |
|                      | 667-16 | G65194-16   | F66512-16     | G65245-16   | F66245-16     |
|                      | 667-20 | G65194-20   | F66512-20     | G65245-20   | F66245-20     |
|                      | 667-24 | †G65194-24  | F66512-24     | †G65245-24  | F66245-24     |

† Nipple with removable flange - other sizes captive

\* Add (size) to MS number. If material is to be CRES, add suffix “C” to size.

Refer to images on previous page.

|                 |           | -----Weight (lbs.)----- |            |           |             | -----Fitting----- |           |             |           |           |
|-----------------|-----------|-------------------------|------------|-----------|-------------|-------------------|-----------|-------------|-----------|-----------|
|                 | Dash Size | CRES                    | ALUM       | Max. A    | Cut-Off B   | C                 | Nominal D | E           | F         |           |
| 45° , Flareless | FORGED    | -3                      | .060/.027  | .021/.009 | 1.70/43.18  | 1.23/31.24        | .13/3.30  | .432/10.972 | .22/5.58  | .44/11.17 |
|                 |           | -4                      | .095/.043  | .041/.018 | 1.92/48.76  | 1.29/32.76        | .22/5.58  | .424/10.76  | .23/5.84  | .44/11.17 |
|                 |           | -5                      | .114/.051  | .048/.021 | 1.99/50.54  | 1.32/33.52        | .22/5.58  | .448/11.37  | .25/6.35  | .56/14.22 |
|                 |           | -6                      | .139/.063  | .059/.026 | 2.11/53.59  | 1.43/36.32        | .19/4.82  | .526/13.36  | .27/6.85  | .56/14.22 |
|                 |           | -8                      | .263/.119  | .147/.066 | 2.73/69.34  | 1.95/49.53        | .21/5.33  | .622/15.79  | .31/7.87  | .62/15.74 |
|                 | BENT TUBE | -10                     | .302/.136  | .127/.057 | 2.62/66.54  | 1.77/44.95        | .24/6.09  | .725/18.41  | .31/7.87  | —         |
|                 |           | -12                     | .482/.218  | .184/.083 | 3.07/77.97  | 2.23/56.64        | .31/7.87  | .800/20.32  | .36/9.14  | —         |
|                 |           | -16                     | .722/.327  | .276/.125 | 3.21/81.53  | 2.33/59.18        | .32/8.12  | .854/21.69  | .41/10.41 | —         |
|                 |           | -20                     | 1.115/.505 | .453/.205 | 3.72/94.48  | 2.61/66.29        | .36/9.14  | .962/24.43  | .44/11.17 | —         |
|                 |           | -24                     | 1.838/.833 | .741/.336 | 4.12/104.64 | 3.03/76.96        | .32/8.12  | 1.155/29.33 | .50/12.70 | —         |
| 90° , Flareless | FORGED    | -3                      | .065/.029  | .027/.012 | 1.33/33.7   | .86/21.84         | .13/3.30  | .741/18.82  | .22/5.58  | .44/11.17 |
|                 |           | -4                      | .101/.045  | .042/.019 | 1.54/39.11  | .91/23.11         | .22/5.58  | .725/18.41  | .23/5.84  | .44/11.17 |
|                 |           | -5                      | .126/.057  | .053/.024 | 1.63/41.40  | .97/24.63         | .22/5.58  | .808/20.52  | .25/6.35  | .56/14.22 |
|                 |           | -6                      | .164/.074  | .064/.029 | 1.71/43.43  | 1.03/26.16        | .19/4.82  | .915/23.24  | .27/6.85  | .56/14.22 |
|                 |           | -8                      | .297/.134  | .148/.067 | 2.09/53.08  | 1.31/33.27        | .21/ 5.33 | 1.052/26.72 | .31/7.87  | .62/15.74 |
|                 | BENT TUBE | -10                     | .311/.141  | .133/.060 | 2.26/57.40  | 1.41/35.81        | .24/6.09  | 1.392/35.35 | .31/7.87  | —         |
|                 |           | -12                     | .507/.229  | .208/.094 | 2.76/70.10  | 1.92/48.76        | .31/7.87  | 1.626/41.30 | .36/9.14  | —         |
|                 |           | -16                     | .749/.339  | .291/.131 | 2.93/74.42  | 2.05/52.07        | .32/8.12  | 1.776/45.11 | .41/10.41 | —         |
|                 |           | -20                     | 1.192/.540 | .477/.216 | 3.45/87.63  | 2.34/59.43        | .36/9.14  | 2.056/52.22 | .44/11.17 | —         |
|                 |           | -24                     | 1.887/.855 | .760/.344 | 3.77/95.75  | 2.68/68.07        | .32/8.12  | 2.438/61.92 | .50/12.70 | —         |

|          |               | Dash<br>Size | -----Weight (lbs.)----- |           |            |            | -----Fitting----- |           |            |
|----------|---------------|--------------|-------------------------|-----------|------------|------------|-------------------|-----------|------------|
|          |               |              | CRES                    | ALUM      | Max. A     | Cut-Off B  | Nominal D         | E         | G          |
| Straight | STRAIGHT TUBE | -8           | .267/.121               | .168/.076 | 2.04/51.81 | 1.27/32.25 | —                 | .31/7.87  | .88/22.35  |
|          |               | -10          | .331/.150               | .197/.089 | 2.17/55.11 | 1.35/34.29 | —                 | .31/7.87  | 1.00/25.40 |
|          |               | -12          | .377/.171               | .227/.102 | 2.36/59.94 | 1.55/39.37 | —                 | .36/9.14  | 1.12/28.44 |
|          |               | -16          | .666/.302               | .352/.159 | 2.46/62.48 | 1.61/40.89 | —                 | .41/10.41 | 1.50/38.10 |
|          |               | -20          | 1.099/.498              | .573/.259 | 2.77/70.35 | 1.69/42.92 | —                 | .44/11.17 | 1.81/45.97 |
|          |               | -24          | 1.212/.549              | .814/.369 | 2.87/72.89 | 1.81/45.97 | —                 | .50/12.70 | 2.12/53.84 |
| 45°      | BENT TUBE     | -8           | .256/.116               | .152/.068 | 2.05/52.06 | 1.25/31.75 | .338/8.58         | .31/7.87  | .88/22.35  |
|          |               | -10          | .317/.143               | .177/.080 | 2.26/57.40 | 1.42/36.06 | .375/9.52         | .31/7.87  | 1.00/25.40 |
|          |               | -12          | .428/.194               | .245/.111 | 2.74/69.59 | 1.90/48.26 | .468/11.88        | .36/9.14  | 1.12/27.94 |
|          |               | -16          | .652/.295               | .362/.164 | 2.86/72.64 | 1.98/50.29 | .505/12.82        | .41/10.41 | 1.50/38.10 |
|          |               | -20          | 1.089/.493              | .586/.265 | 3.32/84.32 | 2.22/56.38 | .569/14.45        | .44/11.17 | 1.81/45.97 |
|          |               | -24          | 1.533/.695              | .810/.367 | 3.58/90.93 | 2.50/63.50 | .624/15.84        | .50/12.70 | 2.12/53.84 |
| 90°      | BENT TUBE     | -8           | .262/.118               | .162/.073 | 2.00/50.80 | 1.21/30.73 | .772/19.60        | .31/7.87  | .88/22.35  |
|          |               | -10          | .330/.149               | .183/.083 | 2.26/57.40 | 1.41/35.81 | .896/22.75        | .31/7.87  | 1.00/25.40 |
|          |               | -12          | .447/.202               | .254/.115 | 2.76/70.10 | 1.92/48.76 | 1.156/29.36       | .36/9.14  | 1.12/27.94 |
|          |               | -16          | .679/.307               | .397/.180 | 2.93/74.42 | 2.05/52.07 | 1.282/32.56       | .41/10.41 | 1.50/38.10 |
|          |               | -20          | 1.151/.522              | .586/.265 | 3.45/87.63 | 2.34/59.43 | 1.500/38.10       | .44/11.17 | 1.81/45.97 |
|          |               | -24          | 1.606/.728              | .875/.396 | 3.77/95.75 | 2.68/68.07 | 1.688/42.87       | .50/12.70 | 2.12/53.84 |

Dimensions: inches/mm

Max "A" measured from seal surface to end of socket

# “super gem” Swivel Nut Globeseal Flareless & 4 Hole Flanged Elbows

## Fittings in accordance with MIL-DTL-27272

### Globeseal Flareless Elbows (Refer to images on page 16)

|               |           | Dash<br>Size |            |             |            | -----Socket----- |            |            | -----Nut----- |            |
|---------------|-----------|--------------|------------|-------------|------------|------------------|------------|------------|---------------|------------|
|               |           | G            | Min H      | R           | U          | Max V            | W          | Thread T   | Hex Y         |            |
| 45° Flareless | FORGED    | -3           | .44/11.176 | .090/2.286  |            | .62/15.748       | .52/13.208 | .44/11.176 | .3750-24      | .50/12.700 |
|               |           | -4           | .56/14.22  | .160/4.06   |            | .81/20.57        | .66/16.76  | .56/14.22  | .4375-20      | .56/14.22  |
|               |           | -5           | .62/15.74  | .220/5.58   |            | .83/21.08        | .73/18.54  | .62/15.748 | .5000-20      | .62/15.74  |
|               |           | -6           | .69/17.52  | .261/6.62   |            | .85/21.59        | .81/20.57  | .69/17.52  | .5625-18      | .69/17.52  |
|               |           | -8           | .88/22.35  | .345/8.76   |            | .98/24.89        | 1.02/25.90 | .88/22.35  | .7500-16      | .88/22.35  |
|               | BENT TUBE | -10          | 1.00/25.40 | .440/11.17  | .62/15.74  | 1.08/27.43       | 1.17/29.71 | 1.00/25.04 | .8750-14      | 1.00/25.40 |
|               |           | -12          | 1.12/28.44 | .560/14.22  | .84/21.33  | 1.15/29.21       | 1.31/33.27 | 1.12/28.44 | 1.0625-12     | 1.25/31.75 |
|               |           | -16          | 1.50/38.10 | .828/21.03  | .97/24.63  | 1.26/32.00       | 1.74/44.19 | 1.50/38.10 | 1.3125-12     | 1.50/38.10 |
|               |           | -20          | 1.81/45.97 | 1.058/26.87 | 1.19/30.22 | 1.51/38.35       | 2.18/55.37 | 1.88/47.75 | 1.6250-12     | 1.81/45.97 |
|               |           | -24          | 2.12/53.84 | 1.253/31.82 | 1.39/35.30 | 1.59/40.38       | 2.46/62.48 | 2.12/53.84 | 1.8750-12     | 2.12/53.84 |
| 90° Flareless | FORGED    | -3           | .44/11.17  | .090/2.28   | —          | .62/15.74        | .52/13.20  | .44/11.17  | .3750-24      | .50/12.70  |
|               |           | -4           | .56/14.22  | .160/4.06   | —          | .81/20.57        | .66/16.76  | .56/14.22  | .4375-20      | .56/14.22  |
|               |           | -5           | .62/15.74  | .220/5.58   | —          | .83/21.08        | .73/18.54  | .62/15.74  | .5000-20      | .62/15.74  |
|               |           | -6           | .69/17.52  | .261/6.62   | —          | .85/21.59        | .81/20.57  | .69/17.52  | .5625-18      | .69/17.52  |
|               |           | -8           | .88/22.35  | .345/8.76   | —          | .98/24.89        | 1.02/25.90 | .88/22.35  | .7500-16      | .88/22.35  |
|               | BENT TUBE | -10          | 1.00/25.40 | .440/11.17  | .62/15.74  | 1.08/27.43       | 1.17/29.71 | 1.00/25.40 | .8750-14      | 1.00/25.40 |
|               |           | -12          | 1.12/28.44 | .560/14.22  | .84/21.33  | 1.15/29.21       | 1.31/33.27 | 1.12/28.44 | 1.0625-12     | 1.25/31.75 |
|               |           | -16          | 1.50/38.10 | .828/21.03  | .97/24.63  | 1.26/32.00       | 1.74/44.19 | 1.50/38.10 | 1.3125-12     | 1.50/38.10 |
|               |           | -20          | 1.81/45.97 | 1.058/26.87 | 1.19/30.22 | 1.51/38.35       | 2.18/55.37 | 1.88/47.75 | 1.6250-12     | 1.81/45.97 |
|               |           | -24          | 2.12/53.84 | 1.253/31.82 | 1.38/35.05 | 1.58/40.13       | 2.46/62.48 | 2.12/53.84 | 1.8750-12     | 2.12/53.84 |

### 4-Hole Flanged Elbows

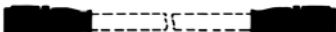
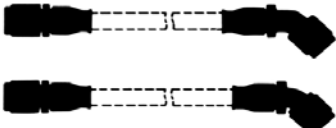
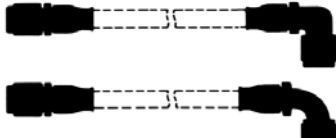
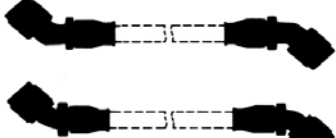
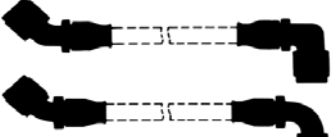
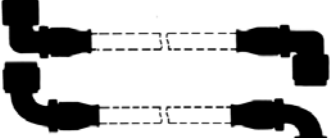
|          |               | MS 27077 Flange |             |            | -----Socket----- |            |            |
|----------|---------------|-----------------|-------------|------------|------------------|------------|------------|
|          |               | Dash Size       | Min H       | R          | U                | Max V      | W          |
| Straight | STRAIGHT TUBE | -8              | .345/8.76   | .50/12.70  | .98/24.89        | 1.02/25.90 | .88/22.35  |
|          |               | -10             | .440/11.17  | .62/15.74  | 1.08/27.43       | 1.17/29.71 | 1.00/25.40 |
|          |               | -12             | .560/14.22  | .84/21.33  | 1.15/29.21       | 1.31/33.27 | 1.12/28.44 |
|          |               | -16             | .828/21.03  | .97/24.63  | 1.26/32.00       | 1.74/44.19 | 1.50/38.10 |
|          |               | -20             | 1.058/26.87 | 1.19/30.22 | 1.51/38.35       | 2.18/55.37 | 1.88/47.75 |
|          |               | -24             | 1.282/32.56 | 1.38/35.05 | 1.58/40.13       | 2.46/62.48 | 2.12/53.84 |
| 45°      | BENT TUBE     | -8              | .345/8.76   | .50/12.70  | .98/24.89        | 1.02/25.90 | .88/22.35  |
|          |               | -10             | .440/11.17  | .62/15.74  | 1.08/27.43       | 1.17/29.71 | 1.00/25.40 |
|          |               | -12             | .560/14.22  | .84/21.33  | 1.15/29.21       | 1.31/33.27 | 1.12/28.44 |
|          |               | -16             | .828/21.03  | .97/24.63  | 1.26/32.00       | 1.74/44.19 | 1.50/38.10 |
|          |               | -20             | 1.058/26.87 | 1.19/30.22 | 1.51/38.35       | 2.18/55.37 | 1.88/47.75 |
|          |               | -24             | 1.253/31.82 | 1.38/35.05 | 1.58/40.13       | 2.46/62.48 | 2.12/53.84 |
| 90°      | BENT TUBE     | -8              | .345/8.76   | .50/12.70  | .98/24.89        | 1.02/25.90 | .88/22.35  |
|          |               | -10             | .440/11.17  | .62/15.74  | 1.08/27.43       | 1.17/29.71 | 1.00/25.40 |
|          |               | -12             | .560/14.22  | .84/21.33  | 1.15/29.21       | 1.31/33.27 | 1.12/28.44 |
|          |               | -16             | .828/21.03  | .97/24.63  | 1.26/32.00       | 1.74/44.19 | 1.50/38.10 |
|          |               | -20             | 1.058/26.87 | 1.19/30.22 | 1.51/38.35       | 2.18/55.37 | 1.88/47.75 |
|          |               | -24             | 1.253/31.82 | 1.38/35.05 | 1.58/40.13       | 2.46/62.48 | 2.12/53.84 |

Dimensions: inches/mm

R = Radius of Elbow measured to center line

# "super gem" Hose Assemblies/Swivel Flared to Swivel Flared

All hose assemblies shown on this page conform to MS8000. MS style code indicates configuration and material. In accordance with MIL-DTL-25579.

| A                                                                                   | B         | Dash Size*   | Material | Assembly Base No. | MS Style Code | Nipple A Part No. | Nipple B Part No. |
|-------------------------------------------------------------------------------------|-----------|--------------|----------|-------------------|---------------|-------------------|-------------------|
|    |           | -4 thru -12  | ALUM     | T666002           | G             | G65008            | G65008            |
|                                                                                     |           |              | CRES     | M666000           | A             | G65000            | G65000            |
|                                                                                     |           | -16 thru -24 | ALUM     | T667004           | G             | G65058            | G65058            |
|                                                                                     |           |              | CRES     | M667000           | A             | G65057            | G65057            |
|    | FORGED    | -4 thru -8   | ALUM     | T666306           | H             | G65008            | G6529             |
|                                                                                     |           |              | CRES     | M666300           | B             | G65000            | G6533             |
|                                                                                     | BENT TUBE | -10 and -12  | ALUM     | T666111           | H             | G65008            | G6530             |
|                                                                                     |           |              | CRES     | M666100           | B             | G65000            | G6534             |
|                                                                                     |           | -16 thru -24 | ALUM     | T667119           | H             | G65058            | G6563             |
|                                                                                     |           |              | CRES     | M667118           | B             | G65057            | G6562             |
|    | FORGED    | -4 thru -8   | ALUM     | T666305           | J             | G65008            | G6531             |
|                                                                                     |           |              | CRES     | M666301           | C             | G65000            | G6505             |
|                                                                                     | BENT TUBE | -10 and -12  | ALUM     | T666110           | J             | G65008            | G6532             |
|                                                                                     |           |              | CRES     | M666101           | C             | G65000            | G6506             |
|                                                                                     |           | -16 thru -24 | ALUM     | T667121           | J             | G65058            | G6561             |
|                                                                                     |           |              | CRES     | M667108           | C             | G65057            | G6560             |
|  | FORGED    | -4 thru -8   | ALUM     | T666315           | K             | G6529             | G6529             |
|                                                                                     |           |              | CRES     | M666302           | D             | G6533             | G6533             |
|                                                                                     | BENT TUBE | -10 and -12  | ALUM     | T666120           | K             | G6530             | G6530             |
|                                                                                     |           |              | CRES     | M666102           | D             | G6534             | G6534             |
|                                                                                     |           | -16 thru -24 | ALUM     | T667124           | K             | G6563             | G6563             |
|                                                                                     |           |              | CRES     | M667123           | D             | G6562             | G6562             |
|  | FORGED    | -4 thru -8   | ALUM     | T666316           | M             | G6529             | G6531             |
|                                                                                     |           |              | CRES     | M666303           | E             | G6533             | G6505             |
|                                                                                     | BENT TUBE | -10 and -12  | ALUM     | T666121           | M             | G6530             | G6532             |
|                                                                                     |           |              | CRES     | M666103           | E             | G6534             | G6506             |
|                                                                                     |           | -16 thru -24 | ALUM     | T667127           | M             | G6563             | G6561             |
|                                                                                     |           |              | CRES     | M667126           | E             | G6562             | G6560             |
|  | FORGED    | -4 thru -8   | ALUM     | T666310           | N             | G6531             | G6531             |
|                                                                                     |           |              | CRES     | M666304           | F             | G6505             | G6505             |
|                                                                                     | TUBE      | -10 and -12  | ALUM     | T666114           | N             | G6532             | G6532             |
|                                                                                     |           |              | CRES     | M666104           | F             | G6506             | G6506             |
|                                                                                     | BENT      | -16 thru -24 | ALUM     | T667130           | N             | G6561             | G6561             |
|                                                                                     |           |              | CRES     | M667129           | F             | G6560             | G6560             |

\* -3 size assemblies available. Contact Eaton for information

# "super gem" Swivel Flareless to Swivel Flareless

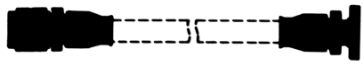
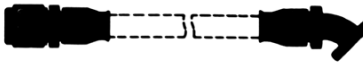
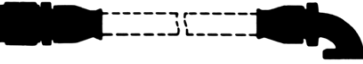
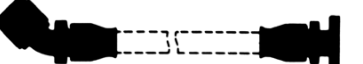
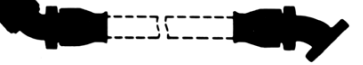
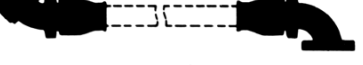
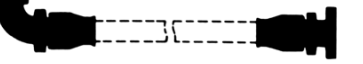
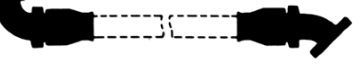
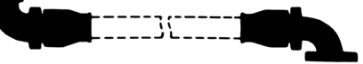
All hose assemblies shown on this page conform to MS8001. MS style code indicates configuration and material. In accordance with MIL-DTL-25579.

| A | B | Dash Size*   | Material | Assembly Base No. | MS Style Code | Nipple A Part No. | Nipple B Part No. |
|---|---|--------------|----------|-------------------|---------------|-------------------|-------------------|
|   |   | -4 thru -12  | ALUM     | T666035           | G             | G65016            | G65016            |
|   |   |              | CRES     | M666049           | A             | G65018            | G65018            |
|   |   | -16 thru -24 | ALUM     | T667012           | G             | G67022            | G67022            |
|   |   |              | CRES     | M667014           | A             | G67023            | G67023            |
|   |   | -4 thru -8   | ALUM     | T666320           | H             | G65016            | G65114            |
|   |   |              | CRES     | M666384           | B             | G65018            | G65113            |
|   |   | -10 and -12  | ALUM     | T666125           | H             | G65016            | G65102            |
|   |   |              | CRES     | M666261           | B             | G65018            | G65101            |
|   |   | 16 thru -24  | ALUM     | T667142           | H             | G67022            | G65396            |
|   |   |              | CRES     | M667171           | B             | G67023            | G65421            |
|   |   | -4 thru -8   | ALUM     | T666319           | J             | G65016            | G65117            |
|   |   |              | CRES     | M666371           | C             | G65018            | G65104            |
|   |   | -10 and -12  | ALUM     | T666124           | J             | G65016            | G65116            |
|   |   |              | CRES     | M666276           | C             | G65018            | G65103            |
|   |   | 16 thru -24  | ALUM     | T667143           | J             | G67022            | G65397            |
|   |   |              | CRES     | M667172           | C             | G67023            | G65422            |
|   |   | -4 thru -8   | ALUM     | T666372           | K             | G65114            | G65114            |
|   |   |              | CRES     | M666385           | D             | G65113            | G65113            |
|   |   | -10 and -12  | ALUM     | T666272           | K             | G65102            | G65102            |
|   |   |              | CRES     | M666277           | D             | G65101            | G65101            |
|   |   | 16 thru -24  | ALUM     | T667168           | K             | G65396            | G65396            |
|   |   |              | CRES     | M667173           | D             | G65421            | G65421            |
|   |   | -4 thru -8   | ALUM     | T666344           | M             | G65114            | G65117            |
|   |   |              | CRES     | M666386           | E             | G65113            | G65104            |
|   |   | -10 and -12  | ALUM     | T666273           | M             | G65102            | G65116            |
|   |   |              | CRES     | M666278           | E             | G65101            | G65103            |
|   |   | 16 thru -24  | ALUM     | T667169           | M             | G65396            | G65397            |
|   |   |              | CRES     | M667174           | E             | G65421            | G65422            |
|   |   | -4 thru -8   | ALUM     | T666314           | N             | G65117            | G65117            |
|   |   |              | CRES     | M666387           | F             | G65104            | G65104            |
|   |   | -10 and -12  | ALUM     | T666148           | N             | G65116            | G65116            |
|   |   |              | CRES     | M666279           | F             | G65103            | G65103            |
|   |   | 16 thru -24  | ALUM     | T667170           | N             | G65397            | G65397            |
|   |   |              | CRES     | M667175           | F             | G65422            | G65422            |

\* -3 size assemblies available. Contact Eaton for information.

# "super gem" Hose Assemblies/Swivel Flared to 4-Hole Flange

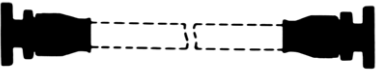
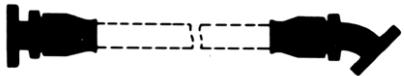
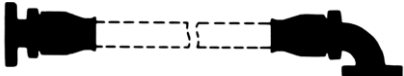
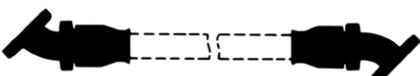
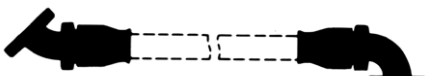
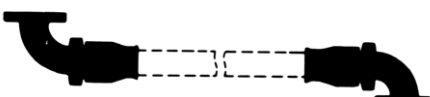
All hose assemblies shown on this page conform to MS8002. MS style code indicates configuration and material. In accordance with MIL-DTL-25579.

| A                                                                                   | B         | Dash Size*   | Material | Assembly Base No. | MS Style Code | Nipple A Part No. | Nipple B Part No. |
|-------------------------------------------------------------------------------------|-----------|--------------|----------|-------------------|---------------|-------------------|-------------------|
|    |           | -10 and -12  | ALUM     | T666042           | K             | G65008            | G61010            |
|                                                                                     |           |              | CRES     | M666043           | A             | G65000            | G61008            |
|                                                                                     |           | -16 thru -24 | ALUM     | T667003           | K             | G65058            | G61009            |
|                                                                                     |           |              | CRES     | M667029           | A             | G65057            | G61007            |
|    | BENT TUBE | -10 and -12  | ALUM     | T666138           | M             | G65008            | G65119            |
|                                                                                     |           |              | CRES     | M666139           | B             | G65000            | G65121            |
|                                                                                     |           | -16 thru -24 | ALUM     | T667111           | M             | G65058            | G65193            |
|                                                                                     |           |              | CRES     | M667189           | B             | G65057            | G65244            |
|    | BENT TUBE | -10 and -12  | ALUM     | T666140           | N             | G65008            | G65120            |
|                                                                                     |           |              | CRES     | M666141           | C             | G65000            | G65122            |
|                                                                                     |           | -16 thru -24 | ALUM     | T667115           | N             | G65058            | G65194            |
|                                                                                     |           |              | CRES     | M667190           | C             | G65057            | G65245            |
|  | BENT TUBE | -10 and -12  | ALUM     | T666170           | T             | G6530             | G61010            |
|                                                                                     |           |              | CRES     | M666265           | G             | G6534             | G61008            |
|                                                                                     |           | 16 thru -24  | ALUM     | T667109           | T             | G6563             | G61009            |
|                                                                                     |           |              | CRES     | M667191           | G             | G6562             | G61007            |
|  | BENT TUBE | -10 and -12  | ALUM     | T666142           | P             | G6530             | G65119            |
|                                                                                     |           |              | CRES     | M666143           | D             | G6534             | G65121            |
|                                                                                     |           | 16 thru -24  | ALUM     | T667106           | P             | G6563             | G65193            |
|                                                                                     |           |              | CRES     | M667192           | D             | G6562             | G65244            |
|  | BENT TUBE | -10 and -12  | ALUM     | T666144           | R             | G6530             | G65120            |
|                                                                                     |           |              | CRES     | M666145           | E             | G6534             | G65122            |
|                                                                                     |           | 16 thru -24  | ALUM     | T667116           | R             | G6563             | G65194            |
|                                                                                     |           |              | CRES     | M667193           | E             | G6562             | G65245            |
|  | BENT TUBE | -10 and -12  | ALUM     | T666158           | U             | G6532             | G61010            |
|                                                                                     |           |              | CRES     | M666159           | H             | G6506             | G61008            |
|                                                                                     |           | 16 thru -24  | ALUM     | T667110           | U             | G6561             | G61099            |
|                                                                                     |           |              | CRES     | M667194           | H             | G6560             | G61007            |
|  | BENT TUBE | -10 and -12  | ALUM     | T666160           | V             | G6532             | G65119            |
|                                                                                     |           |              | CRES     | M666161           | J             | G6506             | G65121            |
|                                                                                     |           | 16 thru -24  | ALUM     | T667112           | V             | G6561             | G65193            |
|                                                                                     |           |              | CRES     | M667195           | J             | G6560             | G65244            |
|  | BENT TUBE | -10 and -12  | ALUM     | T666146           | S             | G6532             | G65120            |
|                                                                                     |           |              | CRES     | M666147           | F             | G6506             | G65122            |
|                                                                                     |           | 16 thru -24  | ALUM     | T667101           | S             | G6561             | G65194            |
|                                                                                     |           |              | CRES     | M667196           | F             | G6560             | G65245            |

\* -8 size assemblies available. Contact Eaton for information.

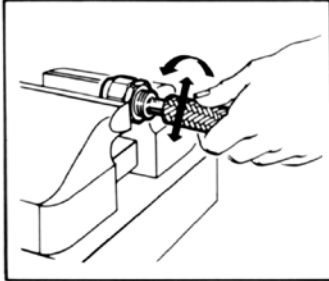
## 4-Hole Flange to 4-Hole Flange

All hose assemblies shown on this page conform to MS8004. MS style code indicates configuration and material.  
In accordance with MIL-DTL-25579.

| A                                                                                  | B         | Dash Size    | Material | Assembly Base No. | MS Style Code | Nipple A Part No. | Nipple B Part No. |
|------------------------------------------------------------------------------------|-----------|--------------|----------|-------------------|---------------|-------------------|-------------------|
|    |           | -10 and -12  | ALUM     | M666040           | G             | G61010            | G61010            |
|                                                                                    |           |              | CRES     | M666041           | A             | G61008            | G61008            |
|                                                                                    |           | -16 thru -24 | ALUM     | T667002           | G             | G61009            | G61009            |
|                                                                                    |           |              | CRES     | M667030           | A             | G61007            | G61007            |
|    | BENT TUBE | -10 and -12  | ALUM     | T666128           | H             | G61010            | G65119            |
|                                                                                    |           |              | CRES     | M666129           | B             | G61008            | G65121            |
|                                                                                    |           | -16 thru -24 | ALUM     | T667104           | H             | G61009            | G65193            |
|                                                                                    |           |              | CRES     | M667197           | B             | G61007            | G65244            |
|  | BENT TUBE | -10 and -12  | ALUM     | T666130           | J             | G61010            | G65120            |
|                                                                                    |           |              | CRES     | M666131           | C             | G61008            | G65122            |
|                                                                                    |           | -16 thru -24 | ALUM     | T667105           | J             | G61009            | G65194            |
|                                                                                    |           |              | CRES     | M667198           | C             | G61007            | G65245            |
|  | BENT TUBE | -10 and -12  | ALUM     | T666132           | K             | G65119            | G65119            |
|                                                                                    |           |              | CRES     | M666133           | D             | G65121            | G65121            |
|                                                                                    |           | 16 thru -24  | ALUM     | T667113           | K             | G65193            | G65193            |
|                                                                                    |           |              | CRES     | M667199           | D             | G65244            | G65244            |
|  | BENT TUBE | -10 and -12  | ALUM     | T666164           | M             | G65119            | G65120            |
|                                                                                    |           |              | CRES     | M666135           | E             | G65121            | G65122            |
|                                                                                    |           | 16 thru -24  | ALUM     | T667114           | M             | G65193            | G65194            |
|                                                                                    |           |              | CRES     | M667200           | E             | G65244            | G65245            |
|  | BENT TUBE | -10 and -12  | ALUM     | T666136           | N             | G65120            | G65120            |
|                                                                                    |           |              | CRES     | M666137           | F             | G65122            | G65122            |
|                                                                                    |           | 16 thru -24  | ALUM     | T667117           | N             | G65194            | G65194            |
|                                                                                    |           |              | CRES     | M667201           | F             | G65245            | G65245            |

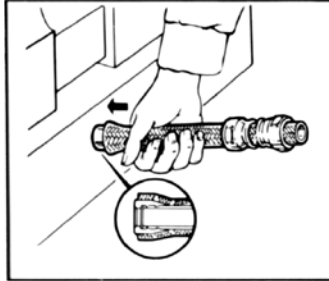
\* -8 size assemblies available. Contact Eaton for information.

# How To Assemble Medium Pressure PTFE Hose and “super gem” Reusable Fittings



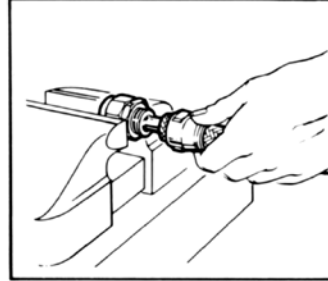
## Step 1.

Wrap hose with tape at cut-off point and cut squarely to length through taped area using a sharp cut-off wheel or a fine-tooth hacksaw. Remove tape and trim any loose wires flush with tube stock. Any burrs on the bore of the tube stock should be removed with a knife. Clean the hose bore. Sometimes wire braid will tend to “neck down” on one end and “flare out” on the opposite end. This is characteristic of wire braid hose and can be used to an advantage in the assembly of the “super gem” fittings. Slip two sockets skirt-to-skirt over the “necked down” end of the hose. Mount nipple hex in a vise. Work the hose bore over the nipple in a circular motion to size the tube and aid in separating the braid prior to fitting the sleeve. Remove hose from nipple.



## Step 2.

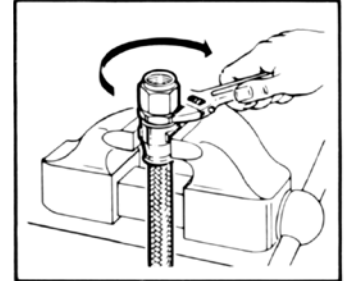
Carefully insert the sleeve over the end of the inner tube and under the wire braid by hand. Complete positioning of the sleeve by pushing the sleeve end against a flat surface until tube bottoms are against shoulder in sleeve I.D. Visually inspect to see that tube stock butts against the inside shoulder of the sleeve and that no wires are trapped under sleeve.



## Step 3.

Hold the nipple with hex in vise. Push hose over nipple with twisting motion until seated against nipple chamfer. Push socket forward, and hand start threading of socket to nipple.

**Note:** When assembling new fittings no lubrication is needed as component parts are dry film lubricated at the time of manufacture. After reuse of the fitting, if undue wearing of the dryfilm or bare metal is observed, the thread area should be lubricated with Molykote G-n Paste.



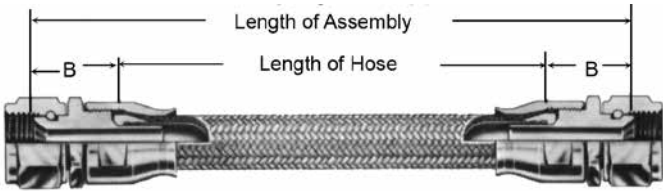
## Step 4.

Wrench tighten nipple hex until clearance with socket hex is 1/32” [0.079 mm] or less (may vary from 0.023 [0.584 mm] to 0.046 inch [1.168] ). Tighten further to align corners of nipple and socket hexes.

## Step 5.

Proof test all completed. Assemblies to 3000 PSIG

# How To Assemble Medium Pressure PTFE Hose and “super gem” Reusable Fittings



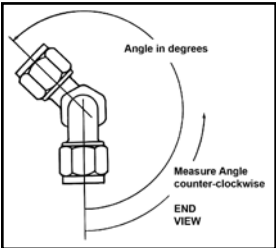
Determine hose cut-off length by subtracting fitting cut-off factor (B+B) from hose assembly length or by calculating the length from the information shown on the hose assembly drawing. The cut-off length may also be determined by measuring the used length of hose being replaced.

## How to Complete Assembly Part Number

Measure assembly length from end fitting sealing surface to end fitting sealing surface (see page 4, “Assembly length” call-out on hose assembly picture). Assembly length is always expressed in four digits (see example).

### Position Angle

On assemblies with an elbow fitting on each end, measure the position angle as shown above and prefix the angle to the basic style number. In all cases, the angle should be expressed in 3 digits. For example: 35° should be written as 035. If the angle desired is 0°, specify 000.



Hose Size (dash size)

Hose size is expressed as a dash number, which designated the tube OD in 1/16's of an inch. This number is added immediately following the basic style number and is normally separated from it with a dash. However, on assemblies with elbow fittings on each end, hose size is expressed with an alphabetic code; a similar code letter may be used to indicate jump size. When position angle and letter code are used, dashes are omitted between basic style number and hose size; also between hose size and lengths.

| Dash Size | Letter Code |
|-----------|-------------|
| -4        | E           |
| -5        | F           |
| -6        | G           |
| -8        | H           |
| -10       | J           |
| -12       | K           |
| -16       | M           |
| -20       | N           |
| -24       | P           |

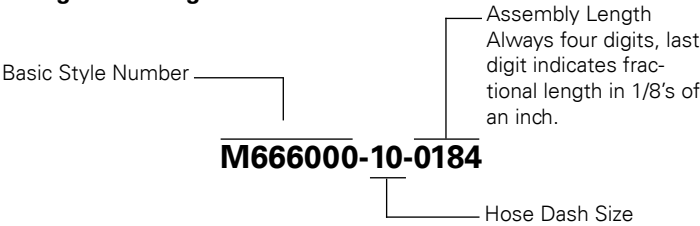
## Basic Assembly Numbers

The basic part numbers shown here represent standard configurations with materials, markings, and cleaning requirements conforming to MIL-DTL-25579. If your requirements differ from these standards, the hose assemblies you order will be assigned new numbers by Eaton.

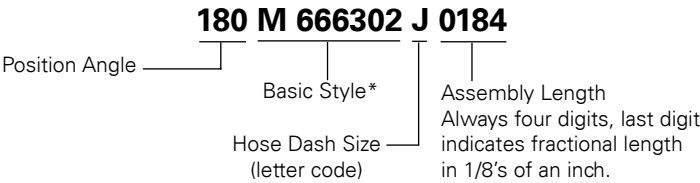
These part numbers are generated as follows:

EXAMPLE:

### Straight to Straight Assemblies



### Double Elbow Assemblies



## Part Numbers Assigned Prior to January 2, 1964

1. No AE Prefix
2. The following chart shows the letter code previously used to indicate sizes in the same part numbers

| Dash Size   | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | 32 | 40 | 48 | 64 | 80 | 96 | * |
|-------------|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|---|
| Letter Code | A | E | F | G | H | J | K  | L  | M  | N  | P  | R  | T  | U  | V  | W  | Y  | Z |

\* Special Part Numbers

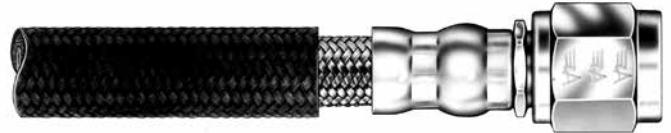
# Aeroquip PTFE Hose Assemblies with Integral Polyester Chafe Guard

## MIL-DTL-25579 1500 psi Hydraulic Service

**AE566 Medium Pressure PTFE Hose with “super gem” Fitting  
Per MIL-DTL-27272 (for use with MIL-DTL-27267 Hose)**



**AE566 Medium Pressure PTFE Hose with Compression Crimp**



### Aeroquip PTFE Hose Assemblies with Integral Polyester Chafe Guard

Eaton's Aeroquip braided polyester chafe resistant hose is manufactured by braiding polyester yarn onto 666 hose.

### Advantages of Aeroquip polyester chafe-resistant hose:

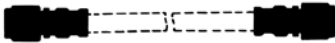
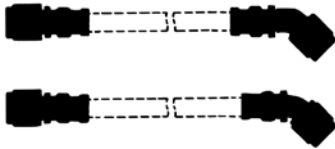
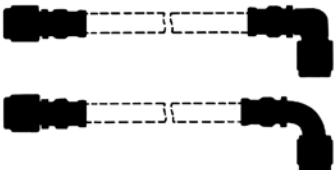
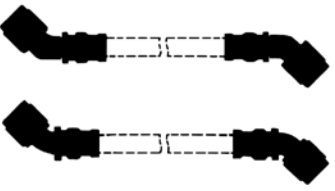
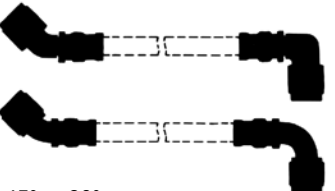
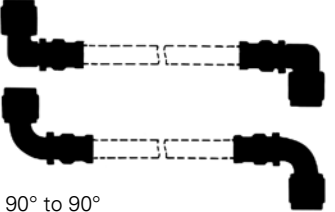
- Superior chafe-resistance (see comparison chart on page 16)
- Compatible with Aerospace associated fluids (see compatibility chart on page 24)
- Adds minimal weight
- Minimal increase in O.D.
- Flexibility is not impaired
- Temperature range – 65°F to +300°F (-54°C to +149°C)
- Assemblies can be fabricated from bulk hose and fittings. See Eaton Service Bulletin ASB116R-1 for AE546 hose, ASB73R-1 for AE566 hose and ASB120A for thermal stripping tool.

| Dash Size | O.D. Tube Size | Hose I.D. (Min.) | Hose O.D. (Max.) | Operating Pressure (psi/kPa) | Proof Pressure (psi/kPa) | Room Temp Min. Burst Pressure (psi/kPa) | Min. Bend Radius | Weight Per Foot (lbs./kg) |
|-----------|----------------|------------------|------------------|------------------------------|--------------------------|-----------------------------------------|------------------|---------------------------|
| AE566-4   | 1/4            | .173/4.39        | .448/11.37       | 1500/10342                   | 3000/20684               | 12000                                   | 2.00/50.8        | .096/.043                 |
| AE566-5   | 5/16           | .235/5.96        | .501/12.72       | 1500/10342                   | 3000/ 20684              | 10000                                   | 2.00/50.8        | .121/.054                 |
| AE566-6   | 3/8            | .298/7.56        | .559/14.19       | 1500/ 10342                  | 3000/ 20684              | 9000                                    | 4.00/101.6       | .135/.061                 |
| AE566-8   | 1/2            | .391/9.93        | .665/16.89       | 1500/ 10342                  | 3000/ 20684              | 8000                                    | 4.62/117.3       | .181/.082                 |
| AE566-10  | 5/8            | .485/12.31       | .772/19.60       | 1500/ 10342                  | 3000/ 20684              | 7000                                    | 5.50/139.7       | .214/.097                 |
| AE566-12  | 3/4            | .615/15.62       | .887/22.52       | 1000/6894                    | 2000/13789               | 5000                                    | 6.50/165.1       | .274/.124                 |
| AE566-16  | 1              | .851/21.61       | 1.210/30.73      | 1250/8618                    | 2500/17236               | 5000                                    | 7.38/187.4       | .516/.234                 |
| AE566-20  | 1 1/4          | 1.101/27.96      | 1.460/37.08      | 1000/6894                    | 2000/13789               | 4000                                    | 11.00/279.4      | .646/.293                 |
| AE566-24  | 1 1/2          | 1.344/34.13      | 1.782/45.26      | 1000/6894                    | 2000/13789               | 4000                                    | 14.00/355.6      | .860/.390                 |

All Dimensions in inches/mm.

NOTE: For additional information on 666/667 hose, see page 4.

# Aeroquip PTFE Hose Assemblies with Integral Polyester Chafe Guard Fittings/Hose Assemblies

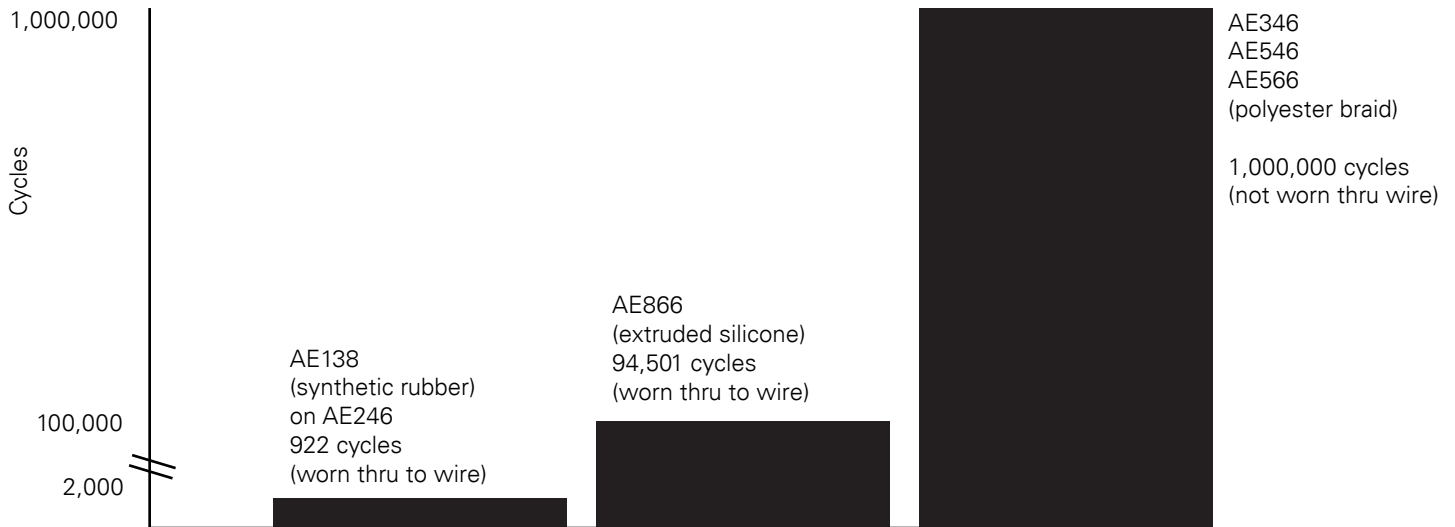
| Configuration                                                                                            | Fittings<br>(Per MIL-DTL-27272) | AE566 Hose with CRES<br>"super gem" fittings<br>(Per MIL-H-27267 &<br>MIL-DTL-25579) | AE566 Hose with<br>Compression Crimp Fittings<br>(per MIL-DTL-27267 &<br>MIL-DTL-25579) |
|----------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <br>Straight to Straight | FLARED 37° CRES                 | AE6665012                                                                            | AE3663231                                                                               |
|                                                                                                          | FLARED 37° ALUMINUM             | AE6665015                                                                            | AE3663884                                                                               |
|                                                                                                          | FLARELESS CRES (NAS 1760)†      | AE6665018                                                                            | AE3663234                                                                               |
|                                                                                                          | FLARELESS ALUMINUM (NAS 1760)†  | AE6665021                                                                            |                                                                                         |
| <br>Straight to 45°      | FLARED 37° CRES                 | AE6665013                                                                            | AE36663232                                                                              |
|                                                                                                          | FLARED 37° ALUMINUM             | AE6665016                                                                            | AE3664072                                                                               |
|                                                                                                          | FLARELESS CRES (NAS 1760)†      | AE6665019                                                                            | AE3663235                                                                               |
|                                                                                                          | FLARELESS ALUMINUM (NAS 1760)†  | AE6665022                                                                            |                                                                                         |
| <br>Straight to 90°     | FLARED 37° CRES                 | AE6665014                                                                            | AE3663233                                                                               |
|                                                                                                          | FLARED 37° ALUMINUM             | AE6665017                                                                            | AE3664073                                                                               |
|                                                                                                          | FLARELESS CRES (NAS 1760)†      | AE6665020                                                                            | AE3663236                                                                               |
|                                                                                                          | FLARELESS ALUMINUM (NAS 1760)†  | AE6665023                                                                            |                                                                                         |
| <br>45° to 45°         | FLARED 37° CRES                 | AE6239                                                                               | AE6202                                                                                  |
|                                                                                                          | FLARED 37° ALUMINUM             | AE6242                                                                               | AE6995                                                                                  |
|                                                                                                          | FLARELESS CRES (NAS 1760)†      | AE6245                                                                               | AE6205                                                                                  |
|                                                                                                          | FLARELESS ALUMINUM (NAS 1760)†  | AE6248                                                                               |                                                                                         |
| <br>45° to 90°         | FLARED 37° CRES                 | AE6240                                                                               | AE6203                                                                                  |
|                                                                                                          | FLARED 37° ALUMINUM             | AE6243                                                                               | AE6996                                                                                  |
|                                                                                                          | FLARELESS CRES (NAS 1760)†      | AE6246                                                                               | AE6206                                                                                  |
|                                                                                                          | FLARELESS ALUMINUM (NAS 1760)†  | AE6249                                                                               |                                                                                         |
| <br>90° to 90°         | FLARED 37° CRES                 | AE6241                                                                               | AE6204                                                                                  |
|                                                                                                          | FLARED 37° ALUMINUM             | AE6244                                                                               | AE6997                                                                                  |
|                                                                                                          | FLARELESS CRES (NAS 1760)†      | AE6247                                                                               | AE6207                                                                                  |
|                                                                                                          | FLARELESS ALUMINUM (NAS 1760)†  | AE6250                                                                               |                                                                                         |

† CRES and Aluminum fittings for AE566 hose with "super gem" reusable fittings do not conform to NAS 1760 standards.

# Aeroquip PTFE Hose Assemblies with Integral Polyester Chafe Guard Abrasion Comparison/Weight Comparison/Compatibility

## Abrasion Comparison

Aeroquip PTFE hose with polyester chafe guard has been tested for abrasion resistance and compared with synthetic rubber sleeves and extruded silicone sleeves with the results on the graph below.



## Weight Comparison

The following figures show the weight comparison between Aeroquip PTFE hose with polyester chafe guard and other commonly used sleeving materials (based on -8 six medium pressure hose):

| Material          | Weight Per Foot<br>(Includes Hose)<br>Lbs./kg |
|-------------------|-----------------------------------------------|
| Braided Polyester | .175/.079                                     |
| Neoprene Rubber   | .186/.084                                     |
| Extrude Silicone  | .215/.097                                     |
| Polyolifin        | .167/.075                                     |
| PTFE              | .196/.088                                     |
| Spiral Nylon      | .153/.069                                     |

## Compatibility

Eaton's Aeroquip PTFE hose with polyester chafe guard has been tested and shown to be compatible with the following fluids:

- LD4
- Highjet Chevron
- Skydrol 500B4
- JP-4 (MIL-T-5624)
- AvGas Grade 100/130 (MIL-C-5572)
- MIL-L-7808 Lube Oil
- Varsol (Cleaning Solvent)

# How To Order — Aeroquip PTFE Hose Assemblies with Integral Polyester Chafe Guard

To properly specify the correct hose assembly, use the simple numbering system shown adjacent. Straight and single elbow assemblies are identified by the number beginning with either AE246, AE366 or AE666, and double elbow assemblies are identified by a number beginning AE4XXX or AE6XXX. Any assembly can be ordered using these numbers.

Assembly length in inches always four digits, last digit indicates fractional length in 1/8 inch increments

Number code for chafe guard and fitting configuration

Base Numbers for all straight and single elbow assemblies

AE4000 and AE6000 series applies to double elbow assemblies

Number code for chafe guards and fitting configurations

Assembly length in inches always four digits, last digit indicates fractional length in 1/8 inch increments

Elbow position angle expressed in three digits

**AE666 0000 E 0184**

**AE 6000 E 0184-225**

## Size Code

|                |    |    |    |     |     |     |     |     |
|----------------|----|----|----|-----|-----|-----|-----|-----|
| Hose Dash Size | -4 | -6 | -8 | -10 | -12 | -16 | -20 | -24 |
| Letter Code    | E  | G  | H  | J   | K   | M   | N   | P   |

# Aeroquip PTFE Hose Assemblies with Integral Silicone Firesleeve Performance Data — MIL-DTL-25579 and MIL-DTL-27267 1500 psi Hydraulic Service

**AE466 Medium Pressure PTFE Hose with Compression Crimp Fitting**



**AE466 Medium Pressure PTFE Hose with “super gem” Fitting  
Per MIL-DTL-27272 (for use with MIL-DTL-27267 Hose)**



## Aeroquip PTFE Hose Assemblies with Integral Silicone Firesleeve

Eaton’s Aeroquip integral silicone firesleeves on PTFE hose assemblies is a combination that meets the fire test requirements of TSO-C53A Type D and TSO-C75 Type III A and III B.

Available on both medium and high pressure Aeroquip PTFE hose assemblies, the silicone firesleeve is applied directly onto the metal braid and fittings to form a smooth, tight bond.

## Advantages of Integral Silicone Firesleeve

- Silicone sleeve is asbestos free
- Adheres directly to hose
- Smaller envelope for neater appearance
- Hose flexibility is not impaired
- Non-age sensitive for extra-long shelf life
- Lightweight
- Eliminates the use of band clamps
- Eliminates fluid “wicking”
- Manufactured in long lengths
- Temperature range, -65°F to +450°F (-54°C to +232°C). Matches temperature range of PTFE hose.
- Excellent chafe resistance

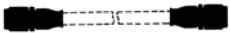
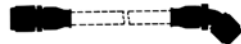
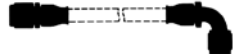
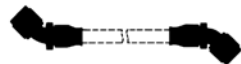
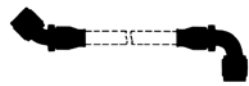
The part number chart below shows the basic hose style and appropriate specifications as well as identification information.

| Dash Size | O.D. Tube Size | Hose I.D. (Min.) | Hose O.D. (Max.) | Operating Pressure (psi/kPa) | Proof Pressure (psi/kPa) | Room Temp Min. Burst Pressure (psi/kPa) | Min. Bend Radius | Weight Per Foot (lbs./kg) |
|-----------|----------------|------------------|------------------|------------------------------|--------------------------|-----------------------------------------|------------------|---------------------------|
| AE466-4   | 1/4            | .173/4.39        | .640/16.25       | 1500/10342                   | 3000/20684               | 12000/82737                             | 2.00/50.8        | .220/.099                 |
| AE466-5   | 5/16           | .235/5.96        | .702/17.83       | 1500/10342                   | 3000/20684               | 10000/68947                             | 2.00/50.8        | .270/.122                 |
| AE466-6   | 3/8            | .298/7.56        | .765/19.43       | 1500/10342                   | 3000/20684               | 9000/62052                              | 4.00/101.6       | .292/.132                 |
| AE466-8   | 1/2            | .391/9.93        | .890/22.60       | 1500/10342                   | 3000/20684               | 8000/55158                              | 4.62/117.3       | .385/.174                 |
| AE466-10  | 5/8            | .485/12.31       | .979/24.86       | 1500/10342                   | 3000/20684               | 7000/48263                              | 5.50/139.7       | .451/.204                 |
| AE466-12  | 3/4            | .615/15.62       | 1.104/28.04      | 1000/6894                    | 2000/20684               | 5000/34473                              | 6.50/165.1       | .534/.242                 |
| AE466-16  | 1              | .851/21.61       | 1.424/36.16      | 1250/8618                    | 2500/17236               | 5000/34473                              | 7.38/187.4       | .924/.419                 |
| AE466-20  | 1 1/4          | 1.101/27.96      | 1.679/42.64      | 1000/6894                    | 2000/17236               | 4000/27579                              | 11.00/279.4      | 1.161/.526                |
| AE466-24  | 1 1/2          | 1.344/34.13      | 1.987/50.46      | 1000/6894                    | 2000/17236               | 4000/27579                              | 14.00/355.6      | 1.485/.673                |

Dimensions: inches/mm

NOTE: For additional information on 666/667 hose, see pages 3 and 4.

# Aeroquip PTFE Hose Assemblies with Integral Silicone Fittings/Hose Assemblies

| Configuration                                                                                            | Hose Size:<br>-4 thru -24 | Type       | AE466 Hose with CRES<br>"super gem" fittings<br>(Per MIL-H-27267 &<br>MIL-DTL-25579) | AE466 Hose with CRES<br>compression Crimp Fittings<br>(Per MIL-DTL-27267 &<br>MIL-DTL-25579) | AE866 Hose with<br>Compression Crimp<br>CRES Fittings |
|----------------------------------------------------------------------------------------------------------|---------------------------|------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------|
| <br>Straight to Straight | -4 thru -24               | FLARED     | AE6665000                                                                            | AE3663161                                                                                    | AE3663962                                             |
|                                                                                                          |                           | FLARELESS* | AE6665006                                                                            | AE3663167                                                                                    | AE3664019                                             |
| <br>Straight to 45°      | -4 thru -24               | FLARED     | AE6665001                                                                            | AE3663162                                                                                    | AE3664017                                             |
|                                                                                                          |                           | FLARELESS* | AE6665007                                                                            | AE3663168                                                                                    | AE3664020                                             |
| <br>Straight to 90°      | -4 thru -24               | FLARED     | AE6665002                                                                            | AE3663163                                                                                    | AE3663948                                             |
|                                                                                                          |                           | FLARELESS* | AE6665008                                                                            | AE3663169                                                                                    | AE3664021                                             |
| <br>45° to 45°           | -4 thru -24               | FLARED     | AE6211                                                                               | AE6208                                                                                       | AE6749                                                |
|                                                                                                          |                           | FLARELESS* | AE6217                                                                               | AE6190                                                                                       | AE8045                                                |
| <br>45° to 90°         | -4 thru -24               | FLARED     | AE6212                                                                               | AE6209                                                                                       | AE6750                                                |
|                                                                                                          |                           | FLARELESS* | AE6218                                                                               | AE6191                                                                                       | AE8046                                                |
| <br>90° to 90°         | -4 thru -24               | FLARED     | AE6213                                                                               | AE6210                                                                                       | AE6751                                                |
|                                                                                                          |                           | FLARELESS* | AE6219                                                                               | AE6192                                                                                       | AE8047                                                |

\* CRES and Aluminum fittings for AE466 hose with "super gem" reusable fittings do not conform to NAS 1760 standards.  
ALUMINUM FITTINGS MAY BE AVAILABLE UPON REQUEST. PLEASE CONTACT EATON.

# How To Order — Aeroquip PTFE Hose Assemblies with Integral Silicone Firesleeve

Assemblies can be fabricated from bulk hose and fittings.

## Hose Compatibility

Eaton Aeroquip PTFE hose with integral silicone firesleeve has been tested and shown to be compatible with the following fluids:

- Fire Resistant Hydraulic Fluids
- JP-4 (MIL-T-5624)
- AvGas Grade 100/130 (MIL-C-5572)
- MIL-L-7808 Lube Oil
- Varsol (cleaning solvent)

## How To Order

To properly specify the correct hose assembly, use the simple numbering system shown adjacent. Straight and single elbow assemblies are identified by the number beginning with either AE366 or AE666 and double elbow assemblies are identified by a number beginning AE4XXX or AE6XXX. Any assembly can be ordered using these numbers.

Assembly length in inches always four digits, last digit indicates fractional length in 1/8 inch (3.1 mm) increments

Number code for firesleeve and fitting configuration

Base Numbers for all straight and single elbow assemblies

AE4000 and AE6000 series applies to double elbow assemblies

Number Code for firesleeve and fitting configuration

Assembly length in inches always four digits, last digit indicates fractional length in 1/8's of an inch

Elbow position angle expressed in three digits

**AE666 5000 E 0184**

**AE6213 E 0184-225**

### Size Code

| Hose Dash Size | -4 | -6 | -8 | -10 | -12 | -16 | -20 | -24 |
|----------------|----|----|----|-----|-----|-----|-----|-----|
| Letter Code    | E  | G  | H  | J   | K   | M   | N   | P   |

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