

INCH-POUND

MS8008C
 24 September 2003
 SUPERSEDING
 MS8008B
 30 June 1985

DETAIL SPECIFICATION SHEET

HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, PERMANENTLY ATTACHED FITTINGS, HIGH TEMPERATURE, MEDIUM PRESSURE, FLARELESS-TO-FLANGE

This specification is approved for use by all
 Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-DTL-25579.

Hose assembly dimensions for style A: See table I.

TABLE I. Hose assembly dimensions for style A. 1/

| Fitting ends | | Hose size | Dimensions 2/, 3/, 4/, 5/ | | | | | |
|--------------|----------|-----------|---------------------------|----------|---------|---------|---------|---------|
| 1 | 2 | | A (nom) | B (max) | C (max) | F (max) | M (max) | P (max) |
| | | 8 | 0.310 | 1.640 | 0.880 | 1.014 | 1.560 | 0.875 |
| | | 10 | 0.356 | 1.940 | 0.967 | 1.158 | 1.570 | 1.000 |
| Straight | Straight | 12 | 0.393 | 1.913 | 1.122 | 1.447 | 1.640 | 1.250 |
| | | 16 | 0.429 | 2.298 | 1.480 | 1.736 | 1.750 | 1.500 |
| | | 20 | 0.393 | 2.577 | 1.750 | 2.328 | 1.990 | 1.844 |
| | | 24 | 0.398 | 2.800 | 2.150 | 2.621 | 2.260 | 2.125 |

1/ Style A uses class 1 fittings which are made from corrosion resistant steel (CRES).

2/ Dimensions are shown on figure 1.

3/ Dimensions "A" and "B" are based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

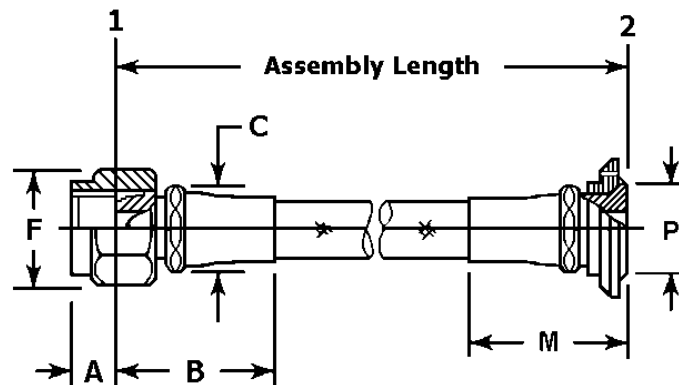


FIGURE 1. Style A hose assembly.

MS8008C

Hose assembly dimensions for style B: See table II.

TABLE II. Hose assembly dimensions for style B. 1/

| Fitting ends | | Hose size | Dimensions 2/, 3/, 4/, 5/ | | | | | | | | |
|--------------|-----|-----------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 2 | | A (nom) | B (max) | C (max) | D (max) | F (max) | N (max) | P (max) | R (min) | R (max) |
| | | 8 | 0.310 | 1.640 | 0.880 | 1.722 | 1.014 | 0.606 | 0.875 | 0.303 | 0.428 |
| | | 10 | 0.356 | 1.940 | 0.967 | 2.037 | 1.158 | 0.658 | 1.000 | 0.340 | 0.465 |
| Straight | 45° | 12 | 0.393 | 1.913 | 1.122 | 2.368 | 1.447 | 0.789 | 1.250 | 0.433 | 0.558 |
| | | 16 | 0.429 | 2.298 | 1.480 | 2.583 | 1.736 | 0.929 | 1.500 | 0.470 | 0.657 |
| | | 20 | 0.393 | 2.577 | 1.750 | 2.946 | 2.328 | 1.020 | 1.844 | 0.534 | 0.721 |
| | | 24 | 0.398 | 2.800 | 2.150 | 3.210 | 2.621 | 1.186 | 2.125 | 0.589 | 0.839 |

1/ Style B uses class 1 fittings which are made from CRES.

2/ Dimensions are shown on figure 2.

3/ Dimensions "A" and "B" are based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

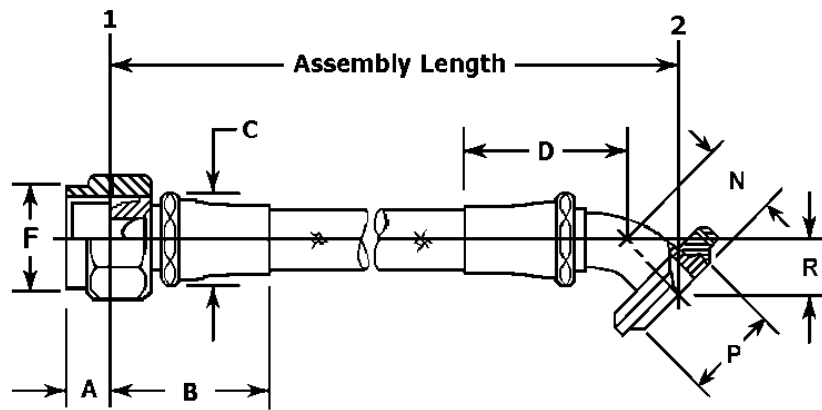


FIGURE 2. Style B hose assembly.

MS8008C

Hose assembly dimensions for style C: See table III.

TABLE III. Hose assembly dimensions for style C. 1/

| Fitting ends | | Hose size | Dimensions 2/, 3/, 4/, 5/ | | | | | | | | |
|--------------|-----|-----------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 2 | | A (nom) | B (max) | C (max) | F (max) | P (max) | S (max) | T (max) | U (min) | U (max) |
| | | 8 | 0.310 | 1.640 | 0.880 | 1.014 | 0.875 | 2.320 | 1.422 | 0.857 | 0.982 |
| | | 10 | 0.356 | 1.940 | 0.967 | 1.158 | 1.000 | 2.875 | 1.499 | 0.861 | 1.015 |
| Straight | 90° | 12 | 0.393 | 1.913 | 1.122 | 1.447 | 1.250 | 3.606 | 1.807 | 1.032 | 1.246 |
| | | 16 | 0.429 | 2.298 | 1.480 | 1.736 | 1.500 | 3.981 | 2.174 | 1.156 | 1.434 |
| | | 20 | 0.393 | 2.577 | 1.750 | 2.328 | 1.844 | 4.435 | 2.590 | 1.344 | 1.715 |
| | | 24 | 0.398 | 2.800 | 2.150 | 2.621 | 2.125 | 5.075 | 3.103 | 1.516 | 2.028 |

1/ Style C uses class 1 fittings which are made from CRES.

2/ Dimensions are shown on figure 3.

3/ Dimensions "A" and "B" are based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

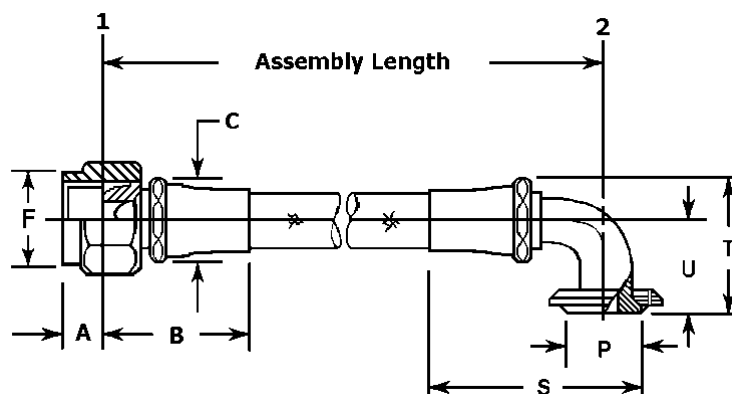


FIGURE 3. Style C hose assembly.

MS8008C

Hose assembly dimensions for style D: See table IV.

TABLE IV. Hose assembly dimensions for style D. 1/

| Fitting ends | | Hose size | Dimensions 2/, 3/, 4/, 5/ | | | | | | | | | | |
|--------------|-----|-----------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | A (nom) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) | N (max) | P (max) | R (min) | R (max) |
| 1 | 2 | | | | | | | | | | | | |
| | | 8 | 0.310 | 0.880 | 1.722 | 1.426 | 1.014 | 0.542 | 0.789 | 0.606 | 0.875 | 0.303 | 0.428 |
| | | 10 | 0.356 | 0.967 | 2.037 | 1.596 | 1.158 | 0.631 | 0.877 | 0.658 | 1.000 | 0.340 | 0.465 |
| 45° | 45° | 12 | 0.393 | 1.122 | 2.368 | 1.739 | 1.447 | 0.631 | 0.952 | 0.789 | 1.250 | 0.433 | 0.558 |
| | | 16 | 0.429 | 1.480 | 2.583 | 1.931 | 1.736 | 0.741 | 1.069 | 0.929 | 1.500 | 0.470 | 0.657 |
| | | 20 | 0.393 | 1.750 | 2.946 | 2.084 | 2.328 | 0.863 | 1.196 | 1.020 | 1.844 | 0.534 | 0.721 |
| | | 24 | 0.398 | 2.150 | 3.210 | 2.376 | 2.621 | 1.012 | 1.376 | 1.186 | 2.125 | 0.589 | 0.839 |

1/ Style D uses class 1 fittings which are made from CRES.

2/ Dimensions are shown on figure 4.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

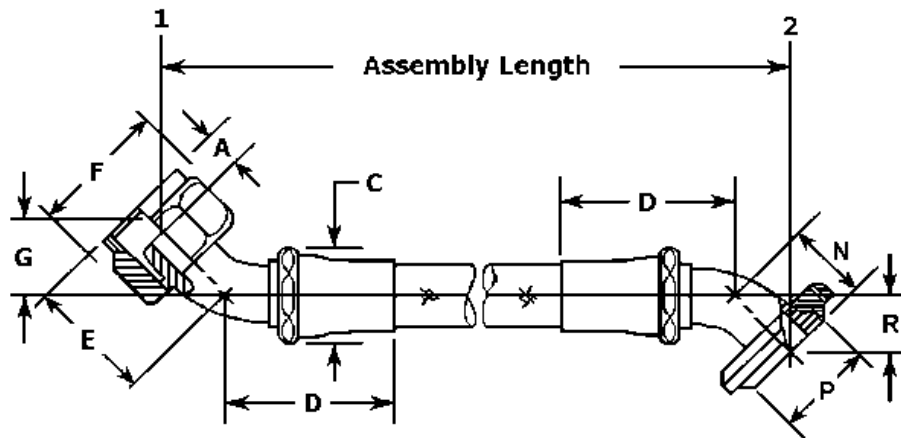


FIGURE 4. Style D hose assembly.

MS8008C

Hose assembly dimensions for style E: See table V.

TABLE V. Hose assembly dimensions for style E. 1/

| Fitting ends | | Hose size | Dimensions 2/, 3/, 4/, 5/ | | | | | | | | | | | |
|--------------|-----|-----------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | A (nom) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) | P (max) | S (max) | T (max) | U (min) | U (max) |
| 1 | 2 | | | | | | | | | | | | | |
| | | 8 | 0.310 | 0.880 | 1.722 | 1.426 | 1.014 | 0.542 | 0.789 | 0.875 | 2.320 | 1.422 | 0.857 | 0.982 |
| | | 10 | 0.356 | 0.967 | 2.037 | 1.596 | 1.158 | 0.631 | 0.877 | 1.000 | 2.875 | 1.499 | 0.861 | 1.015 |
| 45° | 90° | 12 | 0.393 | 1.122 | 2.368 | 1.739 | 1.447 | 0.631 | 0.952 | 1.250 | 3.606 | 1.807 | 1.032 | 1.246 |
| | | 16 | 0.429 | 1.480 | 2.583 | 1.931 | 1.736 | 0.741 | 1.069 | 1.500 | 3.981 | 2.174 | 1.156 | 1.434 |
| | | 20 | 0.393 | 1.750 | 2.946 | 2.084 | 2.328 | 0.863 | 1.196 | 1.844 | 4.435 | 2.590 | 1.344 | 1.715 |
| | | 24 | 0.398 | 2.150 | 3.210 | 2.376 | 2.621 | 1.012 | 1.376 | 2.125 | 5.075 | 3.103 | 1.516 | 2.028 |

1/ Style E uses class 1 fittings which are made from CRES.

2/ Dimensions are shown on figure 5.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

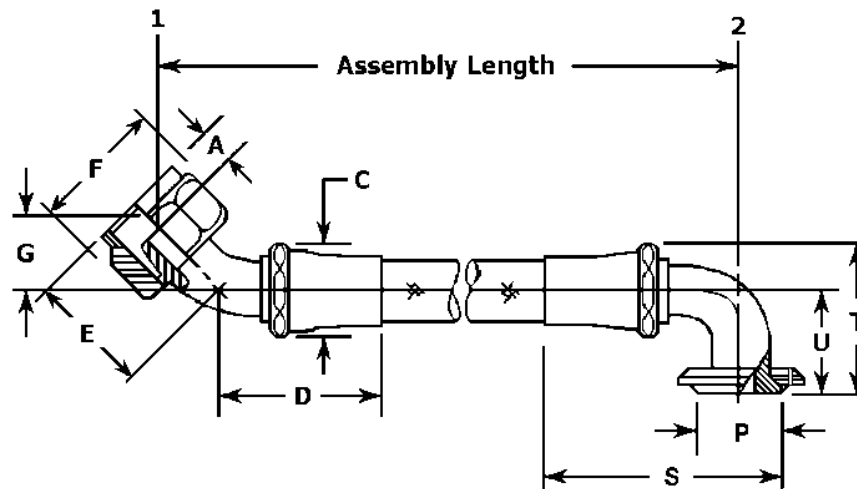


FIGURE 5. Style E hose assembly.

MS8008C

Hose assembly dimensions for style F: See table VI.

TABLE VI. Hose assembly dimensions for style F. 1/

| Fitting ends | | Hose size | Dimensions <u>2/</u> , <u>3/</u> , <u>4/</u> , <u>5/</u> | | | | | | | | | | | |
|--------------|-----|-----------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | A (nom) | C (max) | F (max) | H (max) | J (max) | K (min) | K (max) | P (max) | S (max) | T (max) | U (min) | U (max) |
| 1 | 2 | | | | | | | | | | | | | |
| | | 8 | 0.310 | 0.880 | 1.014 | 2.495 | 2.032 | 1.032 | 1.282 | 0.875 | 2.320 | 1.422 | 0.857 | 0.982 |
| | | 10 | 0.356 | 0.967 | 1.158 | 2.955 | 2.437 | 1.357 | 1.607 | 1.000 | 2.875 | 1.499 | 0.861 | 1.015 |
| 90° | 90° | 12 | 0.393 | 1.122 | 1.447 | 3.705 | 2.795 | 1.591 | 1.841 | 1.250 | 3.606 | 1.807 | 1.032 | 1.246 |
| | | 16 | 0.429 | 1.480 | 1.736 | 4.100 | 3.160 | 1.741 | 1.991 | 1.500 | 3.981 | 2.174 | 1.156 | 1.434 |
| | | 20 | 0.393 | 1.750 | 2.328 | 4.835 | 3.664 | 2.021 | 2.396 | 1.844 | 4.435 | 2.590 | 1.344 | 1.715 |
| | | 24 | 0.398 | 2.150 | 2.621 | 5.480 | 4.251 | 2.403 | 2.778 | 2.125 | 5.075 | 3.103 | 1.516 | 2.028 |

1/ Style F uses class 1 fittings which are made from CRES.

2/ Dimensions are shown on figure 6.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

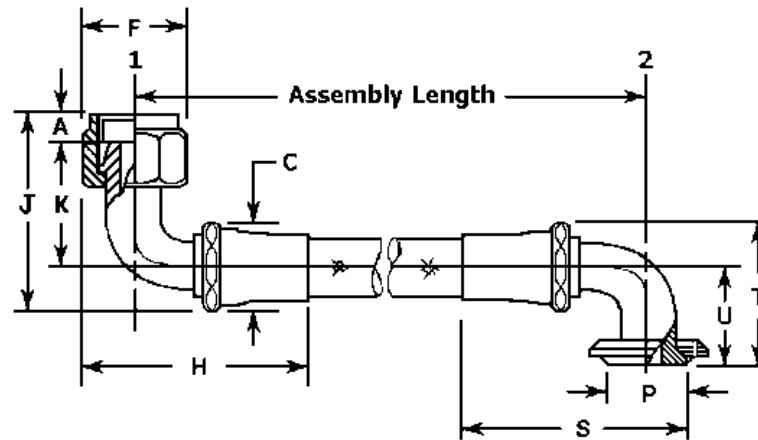


FIGURE 6. Style F hose assembly.

MS8008C

Hose assembly dimensions for style G: See table VII.

TABLE VII. Hose assembly dimensions for style G. 1/

| Fitting ends | | Hose size | Dimensions <u>2/</u> , <u>3/</u> , <u>4/</u> , <u>5/</u> | | | | | | | | |
|--------------|----------|-----------|--|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 2 | | A (nom) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) | M (max) | P (max) |
| | | 8 | 0.310 | 0.880 | 1.722 | 1.426 | 1.014 | 0.542 | 0.789 | 1.560 | 0.875 |
| | | 10 | 0.356 | 0.967 | 2.037 | 1.596 | 1.158 | 0.631 | 0.877 | 1.570 | 1.000 |
| 45° | Straight | 12 | 0.393 | 1.122 | 2.368 | 1.739 | 1.447 | 0.631 | 0.952 | 1.640 | 1.250 |
| | | 16 | 0.429 | 1.480 | 2.583 | 1.931 | 1.736 | 0.741 | 1.069 | 1.750 | 1.500 |
| | | 20 | 0.393 | 1.750 | 2.946 | 2.084 | 2.328 | 0.863 | 1.196 | 1.990 | 1.844 |
| | | 24 | 0.398 | 2.150 | 3.210 | 2.376 | 2.621 | 1.012 | 1.376 | 2.260 | 2.125 |

1/ Style G uses class 1 fittings which are made from CRES.

2/ Dimensions are shown on figure 7.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

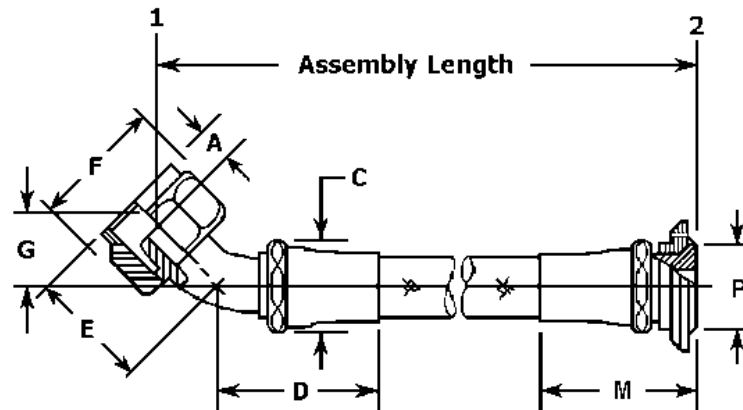


FIGURE 7. Style G hose assembly.

MS8008C

Hose assembly dimensions for style H: See table VIII.

TABLE VIII. Hose assembly dimensions for style H. 1/

| Fitting ends | | Hose size | Dimensions <u>2/</u> , <u>3/</u> , <u>4/</u> , <u>5/</u> | | | | | | | | |
|--------------|----------|-----------|--|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 2 | | A (nom) | C (max) | F (max) | H (max) | J (max) | K (min) | K (max) | M (max) | P (max) |
| | | 8 | 0.310 | 0.880 | 1.014 | 2.495 | 2.032 | 1.032 | 1.282 | 1.560 | 0.875 |
| | | 10 | 0.356 | 0.967 | 1.158 | 2.955 | 2.437 | 1.357 | 1.607 | 1.570 | 1.000 |
| 90° | Straight | 12 | 0.393 | 1.122 | 1.447 | 3.705 | 2.795 | 1.591 | 1.841 | 1.640 | 1.250 |
| | | 16 | 0.429 | 1.480 | 1.736 | 4.100 | 3.160 | 1.741 | 1.991 | 1.750 | 1.500 |
| | | 20 | 0.393 | 1.750 | 2.328 | 4.835 | 3.664 | 2.021 | 2.396 | 1.990 | 1.844 |
| | | 24 | 0.398 | 2.150 | 2.621 | 5.480 | 4.251 | 2.403 | 2.778 | 2.260 | 2.125 |

1/ Style H uses class 1 fittings which are made from CRES.

2/ Dimensions are shown on figure 8.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

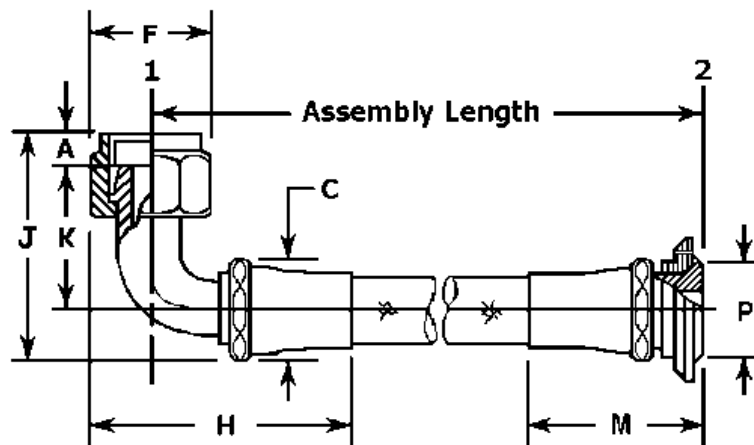


FIGURE 8. Style H hose assembly.

MS8008C

Hose assembly dimensions for style J: See table IX.

TABLE IX. Hose assembly dimensions for style J. 1/

| Fitting ends | | Hose size | Dimensions <u>2/</u> , <u>3/</u> , <u>4/</u> , <u>5/</u> | | | | | | | | | | | |
|--------------|-----|-----------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | A (nom) | C (max) | D (max) | F (max) | H (max) | J (max) | K (min) | K (max) | N (max) | P (max) | R (min) | R (max) |
| | | 8 | 0.310 | 0.880 | 1.722 | 1.014 | 2.495 | 2.032 | 1.032 | 1.282 | 0.606 | 0.875 | 0.303 | 0.428 |
| | | 10 | 0.356 | 0.967 | 2.037 | 1.158 | 2.955 | 2.437 | 1.357 | 1.607 | 0.658 | 1.000 | 0.340 | 0.465 |
| 90° | 45° | 12 | 0.393 | 1.122 | 2.368 | 1.447 | 3.705 | 2.795 | 1.591 | 1.841 | 0.789 | 1.250 | 0.433 | 0.558 |
| | | 16 | 0.429 | 1.480 | 2.583 | 1.736 | 4.100 | 3.160 | 1.741 | 1.991 | 0.929 | 1.500 | 0.470 | 0.657 |
| | | 20 | 0.393 | 1.750 | 2.946 | 2.328 | 4.835 | 3.664 | 2.021 | 2.396 | 1.020 | 1.844 | 0.534 | 0.721 |
| | | 24 | 0.398 | 2.150 | 3.210 | 2.621 | 5.480 | 4.251 | 2.403 | 2.778 | 1.186 | 2.125 | 0.589 | 0.839 |

1/ Style J uses class 1 fittings which are made from CRES.

2/ Dimensions are shown on figure 9.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

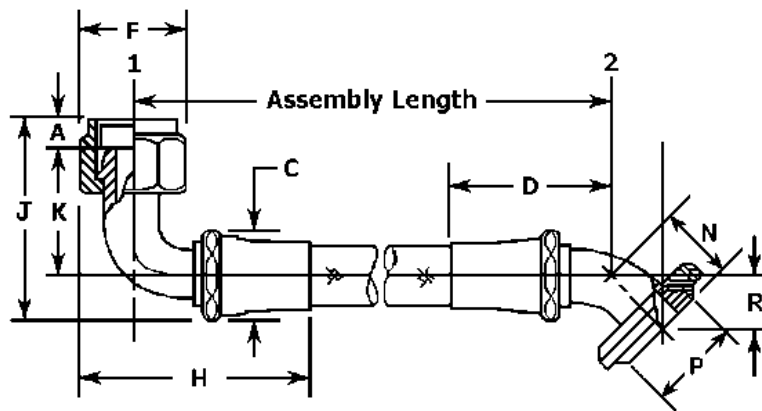


FIGURE 9. Style J hose assembly.

MS8008C

Hose assembly dimensions for style K: See table X.

TABLE X. Hose assembly dimensions for style K. 1/

| Fitting ends | | Hose size | Dimensions <u>2/</u> , <u>3/</u> , <u>4/</u> , <u>5/</u> | | | | | |
|--------------|----------|-----------|--|----------|---------|---------|---------|---------|
| 1 | 2 | | A (nom) | B (max) | C (max) | F (max) | M (max) | P (max) |
| | | 8 | 0.310 | 1.640 | 0.880 | 1.014 | 1.560 | 0.875 |
| | | 10 | 0.356 | 1.940 | 0.967 | 1.158 | 1.570 | 1.000 |
| Straight | Straight | 12 | 0.393 | 1.913 | 1.122 | 1.447 | 1.640 | 1.250 |
| | | 16 | 0.429 | 2.298 | 1.480 | 1.736 | 1.750 | 1.500 |
| | | 20 | 0.393 | 2.577 | 1.750 | 2.328 | 1.990 | 1.844 |
| | | 24 | 0.398 | 2.800 | 2.150 | 2.621 | 2.260 | 2.125 |

1/ Style K uses class 2 fittings which are made from a combination of aluminum and CRES.

2/ Dimensions are shown on figure 10.

3/ Dimensions "A" and "B" are based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

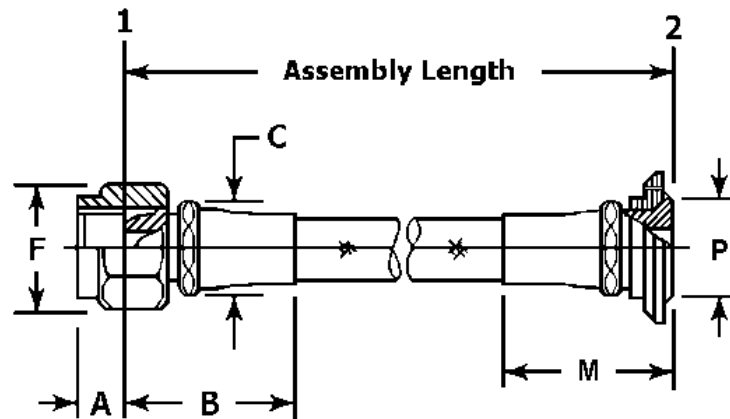


FIGURE 10. Style K hose assembly.

MS8008C

Hose assembly dimensions for style M: See table XI.

TABLE XI. Hose assembly dimensions for style M. 1/

| Fitting ends | | Hose size | Dimensions 2/, 3/, 4/, 5/ | | | | | | | | |
|--------------|-----|-----------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 2 | | A (nom) | B (max) | C (max) | D (max) | F (max) | N (max) | P (max) | R (min) | R (max) |
| | | 8 | 0.310 | 1.640 | 0.880 | 1.722 | 1.014 | 0.606 | 0.875 | 0.303 | 0.428 |
| | | 10 | 0.356 | 1.940 | 0.967 | 2.037 | 1.158 | 0.658 | 1.000 | 0.340 | 0.465 |
| Straight | 45° | 12 | 0.393 | 1.913 | 1.122 | 2.368 | 1.447 | 0.789 | 1.250 | 0.433 | 0.558 |
| | | 16 | 0.429 | 2.298 | 1.480 | 2.583 | 1.736 | 0.929 | 1.500 | 0.470 | 0.657 |
| | | 20 | 0.393 | 2.577 | 1.750 | 2.946 | 2.328 | 1.020 | 1.844 | 0.534 | 0.721 |
| | | 24 | 0.398 | 2.800 | 2.150 | 3.210 | 2.621 | 1.186 | 2.125 | 0.589 | 0.839 |

1/ Style M uses class 2 fittings which are made from a combination of aluminum and CRES.

2/ Dimensions are shown on figure 11.

3/ Dimensions "A" and "B" are based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

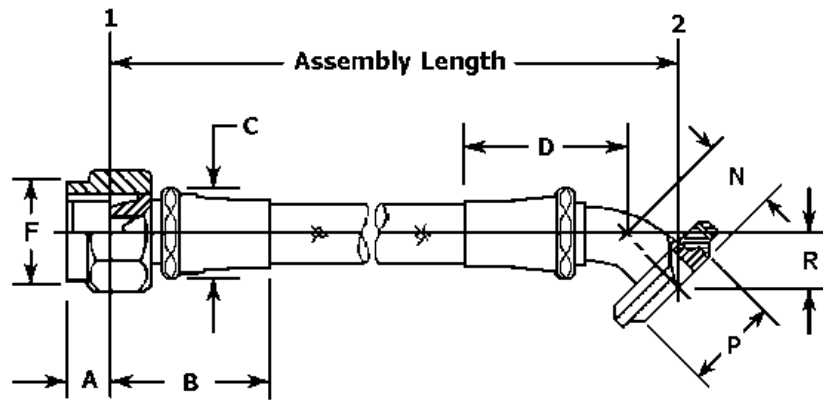


FIGURE 11. Style M hose assembly.

MS8008C

Hose assembly dimensions for style N: See table XII.

TABLE XII. Hose assembly dimensions for style N. 1/

| Fitting ends | | Hose size | Dimensions <u>2/</u> , <u>3/</u> , <u>4/</u> , <u>5/</u> | | | | | | | | |
|--------------|-----|-----------|--|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 2 | | A (nom) | B (max) | C (max) | F (max) | P (max) | S (max) | T (max) | U (min) | U (max) |
| | | 8 | 0.310 | 1.640 | 0.880 | 1.014 | 0.875 | 2.320 | 1.422 | 0.857 | 0.982 |
| | | 10 | 0.356 | 1.940 | 0.967 | 1.158 | 1.000 | 2.875 | 1.499 | 0.861 | 1.015 |
| Straight | 90° | 12 | 0.393 | 1.913 | 1.122 | 1.447 | 1.250 | 3.606 | 1.807 | 1.032 | 1.246 |
| | | 16 | 0.429 | 2.298 | 1.480 | 1.736 | 1.500 | 3.981 | 2.174 | 1.156 | 1.434 |
| | | 20 | 0.393 | 2.577 | 1.750 | 2.328 | 1.844 | 4.435 | 2.590 | 1.344 | 1.715 |
| | | 24 | 0.398 | 2.800 | 2.150 | 2.621 | 2.125 | 5.075 | 3.103 | 1.516 | 2.028 |

1/ Style N uses class 2 fittings which are made from a combination of aluminum and CRES.

2/ Dimensions are shown on figure 12.

3/ Dimensions "A" and "B" are based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

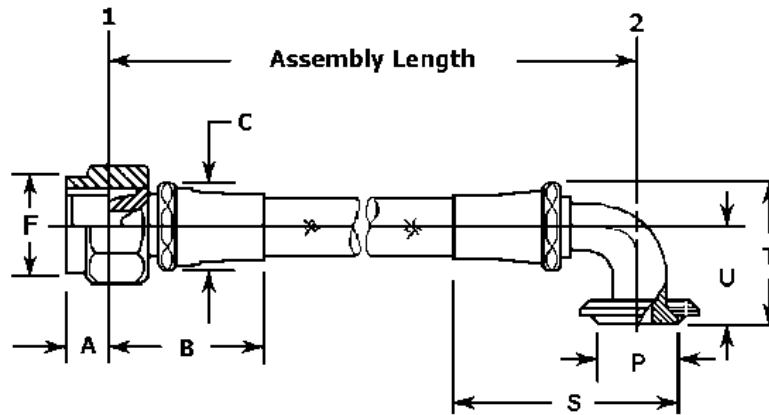


FIGURE 12. Style N hose assembly.

MS8008C

Hose assembly dimensions for style P: See table XIII.

TABLE XIII. Hose assembly dimensions for style P. 1/

| Fitting ends | | Hose size | Dimensions <u>2/</u> , <u>3/</u> , <u>4/</u> , <u>5/</u> | | | | | | | | | | |
|--------------|-----|-----------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | A (nom) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) | N (max) | P (max) | R (min) | R (max) |
| | | 8 | 0.310 | 0.880 | 1.722 | 1.426 | 1.014 | 0.542 | 0.789 | 0.606 | 0.875 | 0.303 | 0.428 |
| | | 10 | 0.356 | 0.967 | 2.037 | 1.596 | 1.158 | 0.631 | 0.877 | 0.658 | 1.000 | 0.340 | 0.465 |
| 45° | 45° | 12 | 0.393 | 1.122 | 2.368 | 1.739 | 1.447 | 0.631 | 0.952 | 0.789 | 1.250 | 0.433 | 0.558 |
| | | 16 | 0.429 | 1.480 | 2.583 | 1.931 | 1.736 | 0.741 | 1.069 | 0.929 | 1.500 | 0.470 | 0.657 |
| | | 20 | 0.393 | 1.750 | 2.946 | 2.084 | 2.328 | 0.863 | 1.196 | 1.020 | 1.844 | 0.534 | 0.721 |
| | | 24 | 0.398 | 2.150 | 3.210 | 2.376 | 2.621 | 1.012 | 1.376 | 1.186 | 2.125 | 0.589 | 0.839 |

1/ Style P uses class 2 fittings which are made from a combination of aluminum and CRES.

2/ Dimensions are shown on figure 13.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

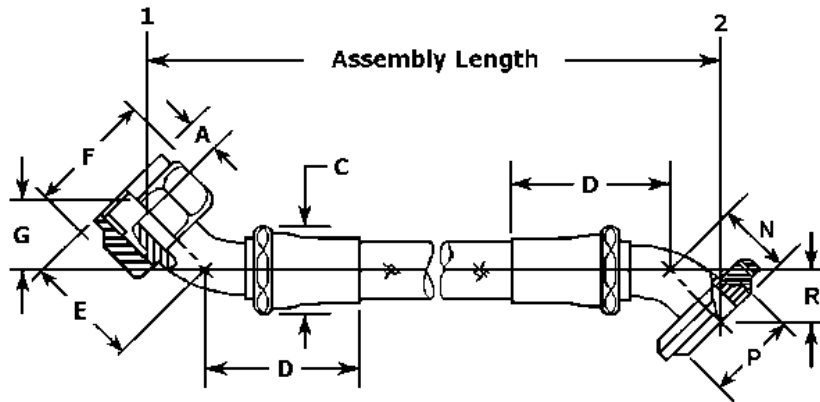


FIGURE 13. Style P hose assembly.

MS8008C

Hose assembly dimensions for style R: See table XIV.

TABLE XIV. Hose assembly dimensions for style R. 1/

| Fitting ends | | Hose size | Dimensions <u>2/</u> , <u>3/</u> , <u>4/</u> , <u>5/</u> | | | | | | | | | | | |
|--------------|-----|-----------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | A (nom) | C (max) | F (max) | H (max) | J (max) | K (min) | K (max) | P (max) | S (max) | T (max) | U (min) | U (max) |
| 1 | 2 | | | | | | | | | | | | | |
| | | 8 | 0.310 | 0.880 | 1.014 | 2.495 | 2.032 | 1.032 | 1.282 | 0.875 | 2.320 | 1.422 | 0.857 | 0.982 |
| | | 10 | 0.356 | 0.967 | 1.158 | 2.955 | 2.437 | 1.357 | 1.607 | 1.000 | 2.875 | 1.499 | 0.861 | 1.015 |
| 90° | 90° | 12 | 0.393 | 1.122 | 1.447 | 3.705 | 2.795 | 1.591 | 1.841 | 1.250 | 3.606 | 1.807 | 1.032 | 1.246 |
| | | 16 | 0.429 | 1.480 | 1.736 | 4.100 | 3.160 | 1.741 | 1.991 | 1.500 | 3.981 | 2.174 | 1.156 | 1.434 |
| | | 20 | 0.393 | 1.750 | 2.328 | 4.835 | 3.664 | 2.021 | 2.396 | 1.844 | 4.435 | 2.590 | 1.344 | 1.715 |
| | | 24 | 0.398 | 2.150 | 2.621 | 5.480 | 4.251 | 2.403 | 2.778 | 2.125 | 5.075 | 3.103 | 1.516 | 2.028 |

1/ Style S uses class 2 fittings which are made from a combination of aluminum and CRES.

2/ Dimensions are shown on figure 15.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

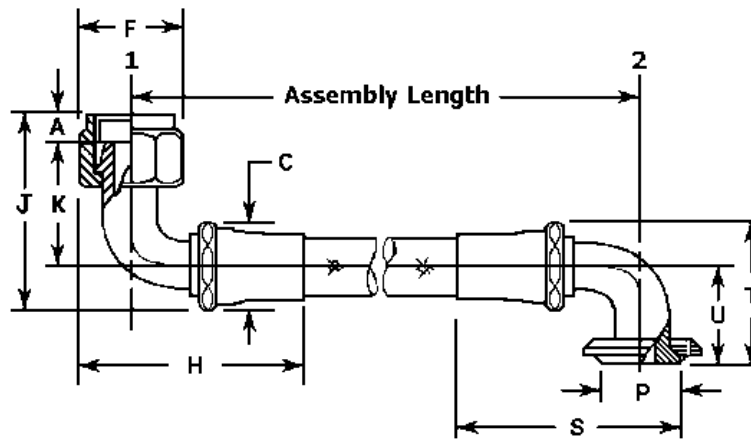


FIGURE 14. Style R hose assembly.

MS8008C

Hose assembly dimensions for style S: See table XV.

TABLE XV. Hose assembly dimensions for style S. 1/

| Fitting ends | | Hose size | Dimensions 2/, 3/, 4/, 5/ | | | | | | | | | | | |
|--------------|-----|-----------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | A (nom) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) | P (max) | S (max) | T (max) | U (min) | U (max) |
| | | 8 | 0.310 | 0.880 | 1.722 | 1.426 | 1.014 | 0.542 | 0.789 | 0.875 | 2.320 | 1.422 | 0.857 | 0.982 |
| | | 10 | 0.356 | 0.967 | 2.037 | 1.596 | 1.158 | 0.631 | 0.877 | 1.000 | 2.875 | 1.499 | 0.861 | 1.015 |
| 45° | 90° | 12 | 0.393 | 1.122 | 2.368 | 1.739 | 1.447 | 0.631 | 0.952 | 1.250 | 3.606 | 1.807 | 1.032 | 1.246 |
| | | 16 | 0.429 | 1.480 | 2.583 | 1.931 | 1.736 | 0.741 | 1.069 | 1.500 | 3.981 | 2.174 | 1.156 | 1.434 |
| | | 20 | 0.393 | 1.750 | 2.946 | 2.084 | 2.328 | 0.863 | 1.196 | 1.844 | 4.435 | 2.590 | 1.344 | 1.715 |
| | | 24 | 0.398 | 2.150 | 3.210 | 2.376 | 2.621 | 1.012 | 1.376 | 2.125 | 5.075 | 3.103 | 1.516 | 2.028 |

1/ Style R uses class 2 fittings which are made from a combination of aluminum and CRES.

2/ Dimensions are shown on figure 14.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

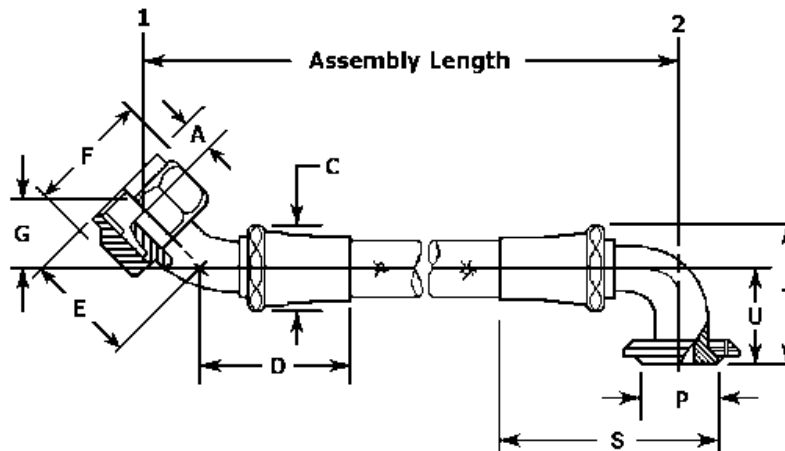


FIGURE 15. Style S hose assembly.

MS8008C

Hose assembly dimensions for style T: See table XVI.

TABLE XVI. Hose assembly dimensions for style T. 1/

| Fitting ends | | Hose size | Dimensions 2/, 3/, 4/, 5/ | | | | | | | | |
|--------------|----------|-----------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 2 | | A (nom) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) | M (max) | P (max) |
| | | 8 | 0.310 | 0.880 | 1.722 | 1.426 | 1.014 | 0.542 | 0.789 | 1.560 | 0.875 |
| | | 10 | 0.356 | 0.967 | 2.037 | 1.596 | 1.158 | 0.631 | 0.877 | 1.570 | 1.000 |
| 45° | Straight | 12 | 0.393 | 1.122 | 2.368 | 1.739 | 1.447 | 0.631 | 0.952 | 1.640 | 1.250 |
| | | 16 | 0.429 | 1.480 | 2.583 | 1.931 | 1.736 | 0.741 | 1.069 | 1.750 | 1.500 |
| | | 20 | 0.393 | 1.750 | 2.946 | 2.084 | 2.328 | 0.863 | 1.196 | 1.990 | 1.844 |
| | | 24 | 0.398 | 2.150 | 3.210 | 2.376 | 2.621 | 1.012 | 1.376 | 2.260 | 2.125 |

1/ Style T uses class 2 fittings which are made from a combination of aluminum and CRES.

2/ Dimensions are shown on figure 16.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

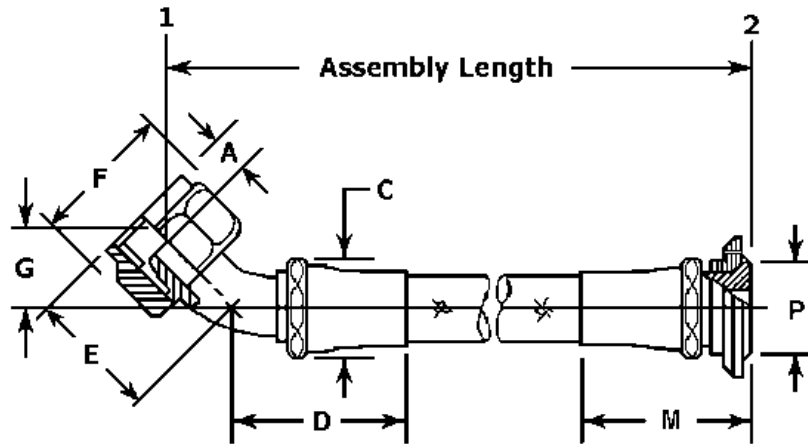


FIGURE 16. Style T hose assembly.

MS8008C

Hose assembly dimensions for style U: See table XVII.

TABLE XVII. Hose assembly dimensions for style U. 1/

| Fitting ends | | Hose size | Dimensions <u>2/</u> , <u>3/</u> , <u>4/</u> , <u>5/</u> | | | | | | | | |
|--------------|----------|-----------|--|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 2 | | A (nom) | C (max) | F (max) | H (max) | J (max) | K (min) | K (max) | M (max) | P (max) |
| | | 8 | 0.310 | 0.880 | 1.014 | 2.495 | 2.032 | 1.032 | 1.282 | 1.560 | 0.875 |
| | | 10 | 0.356 | 0.967 | 1.158 | 2.955 | 2.437 | 1.357 | 1.607 | 1.570 | 1.000 |
| 90° | Straight | 12 | 0.393 | 1.122 | 1.447 | 3.705 | 2.795 | 1.591 | 1.841 | 1.640 | 1.250 |
| | | 16 | 0.429 | 1.480 | 1.736 | 4.100 | 3.160 | 1.741 | 1.991 | 1.750 | 1.500 |
| | | 20 | 0.393 | 1.750 | 2.328 | 4.835 | 3.664 | 2.021 | 2.396 | 1.990 | 1.844 |
| | | 24 | 0.398 | 2.150 | 2.621 | 5.480 | 4.251 | 2.403 | 2.778 | 2.260 | 2.125 |

1/ Style U uses class 2 fittings which are made from a combination of aluminum and CRES.

2/ Dimensions are shown on figure 17.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

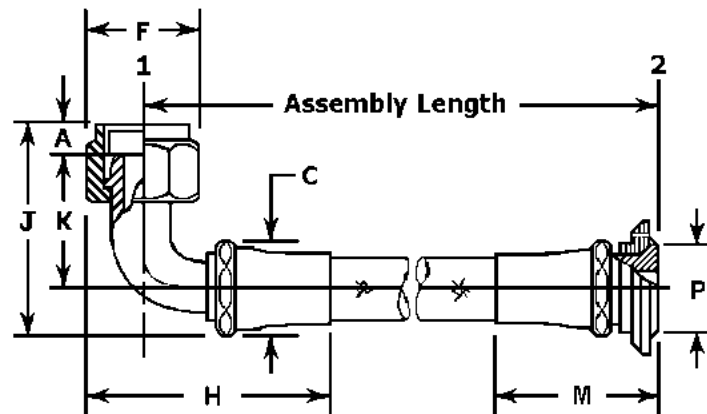


FIGURE 17. Style U hose assembly.

MS8008C

Hose assembly dimensions for style V: See table XVIII.

TABLE XVIII. Hose assembly dimensions for style V. 1/

| Fitting ends | | Hose size | Dimensions 2/, 3/, 4/, 5/ | | | | | | | | | | | |
|--------------|-----|-----------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | A (nom) | C (max) | D (max) | F (max) | H (max) | J (max) | K (min) | K (max) | N (max) | P (max) | R (min) | R (max) |
| | | 8 | 0.310 | 0.880 | 1.722 | 1.014 | 2.495 | 2.032 | 1.032 | 1.282 | 0.606 | 0.875 | 0.303 | 0.428 |
| | | 10 | 0.356 | 0.967 | 2.037 | 1.158 | 2.955 | 2.437 | 1.357 | 1.607 | 0.658 | 1.000 | 0.340 | 0.465 |
| 90° | 45° | 12 | 0.393 | 1.122 | 2.368 | 1.447 | 3.705 | 2.795 | 1.591 | 1.841 | 0.789 | 1.250 | 0.433 | 0.558 |
| | | 16 | 0.429 | 1.480 | 2.583 | 1.736 | 4.100 | 3.160 | 1.741 | 1.991 | 0.929 | 1.500 | 0.470 | 0.657 |
| | | 20 | 0.393 | 1.750 | 2.946 | 2.328 | 4.835 | 3.664 | 2.021 | 2.396 | 1.020 | 1.844 | 0.534 | 0.721 |
| | | 24 | 0.398 | 2.150 | 3.210 | 2.621 | 5.480 | 4.251 | 2.403 | 2.778 | 1.186 | 2.125 | 0.589 | 0.839 |

1/ Style V uses class 2 fittings which are made from a combination of aluminum and CRES.

2/ Dimensions are shown on figure 18.

3/ Dimensions "A" is based on end of MS8000 series seal.

4/ Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.

5/ Apply NAS 1760 in accordance with MIL-DTL-25579/1, see requirements.

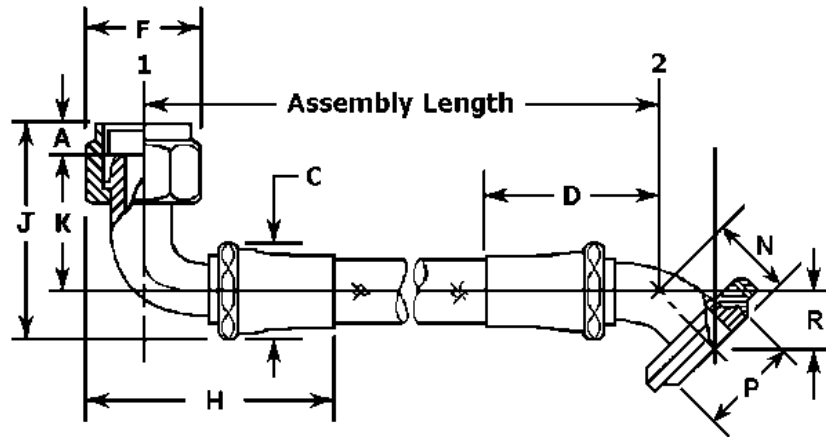


FIGURE 18. Style V hose assembly.

MS8008C

Protective sleeve code: See table XIX.

TABLE XIX. Protective sleeve code.

| Code | Type |
|------|---|
| A | SAE AS1072 sleeve, fire protection, silicone covered, temperature ranging from -65°F to 450°F, and intermittently to 500°F; secured with CRES bands as required. 1/ |
| B | SAE AS1073 - code B sleeve, abrasion protection, heat shrinkable, black polyolefin, temperature ranging from -65°F to 250°F. |
| C | SAE AS1291 - code A sleeve, chafe guard, extruded seamless white PTFE, temperature ranging from -65°F to 450°F, secured with CRES bands as required. |
| D | SAE AS1291 - code C sleeve, chafe guard, extruded seamless transparent FEP, temperature ranging from -65°F to 350°F, secured with CRES bands as required. |
| E | SAE AS1298 sleeve, heavy wall chafe guard, extruded seamless black PTFE, temperature ranging from -65°F to 450°F, secured with CRES bands as required. |
| L | Lock-wire hole |
| F | Code A + L |
| G | Code B + L |
| H | Code C + L |
| J | Code D + L |
| K | Code E + L |

1/ To prevent wicking of fluids, the cut ends of the fire protective sleeve (code A) shall be coated with Room Temperature Vulcanized (RTV) silicone rubber prior to installation. After installation, cracks and voids in the fire protective sleeve shall be coated with RTV rubber to prevent exposure of asbestos or fiberglass.

REQUIREMENTS:

Dimensions: Unless otherwise specified, all dimensions are in inches. Dimensions "N (max)" and "T (max)" are installation dimensions and not design dimensions. Dimension "F" is measured across the corners.

Fittings: The swivel nut and nipple ends shall mate with SAE AS33514 fitting. The swivel nut threads shall be in accordance with SAE AS8879. The swivel flange shall conform to MS20756.

Elbow fittings: The ovality of the circular cross section within the angle of the bend of the end fitting elbow shall not exceed 7.5% of the nominal tubing OD.

Assembly classification: Class 1 and class 2 hose assemblies, as specified in MIL-DTL-25579, have been incorporated into the Part or Identifying Number (PIN) as a part of styles.

Angular alignment: Hose assemblies with elbow fittings on each end shall have the angular orientation between the elbows measured counter-clockwise from the centerline of the nearest fitting, positioned at six-o'clock, to the centerline of the other fitting (see figure 19). When applicable, the angular alignment shall be expressed in three digits and specified in the PIN.

Protective sleeve: If required, the hose assembly shall include a protective sleeve (see table XIX) and its code shall be included in the PIN. Fire protective sleeve shall be subjected to testing in accordance with MIL-DTL-25579.

Assembly length: Hose assembly shall be furnished in lengths as specified in the contract or purchase order (see MIL-DTL-25579); however, tolerances on the length of each hose assembly shall be as follows:

- ±1/8 inch for lengths under 18 inches.
- ±1/4 inch for lengths from 18 inches to 36 inches.
- ±1/2 inch for lengths from 36 inches to 50 inches.
- ±1% for lengths over 50 inches.

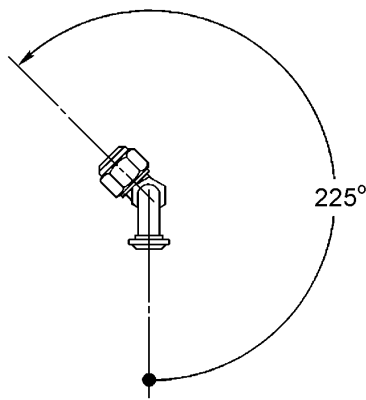
Flareless fitting, hose connector design: Use MIL-DTL-25579/1 for application of NAS 1760 design or MS8000 series seal design.

MS8008C

Hose assembly size code: See table XX.

TABLE XX. Hose assembly size code.

| Size | Reference tube OD | Size code |
|------|-------------------|-----------|
| 8 | 0.500 | H |
| 10 | 0.625 | J |
| 12 | 0.750 | K |
| 16 | 1.000 | M |
| 20 | 1.250 | N |
| 24 | 1.500 | P |



NOTE: Angular alignment shall be measured in degrees with a tolerance of $\pm 2^\circ$.

FIGURE 19. Measurement of angular alignment between elbow fittings.

TABLE XXI. Elbow fitting ovality. ^{1/}

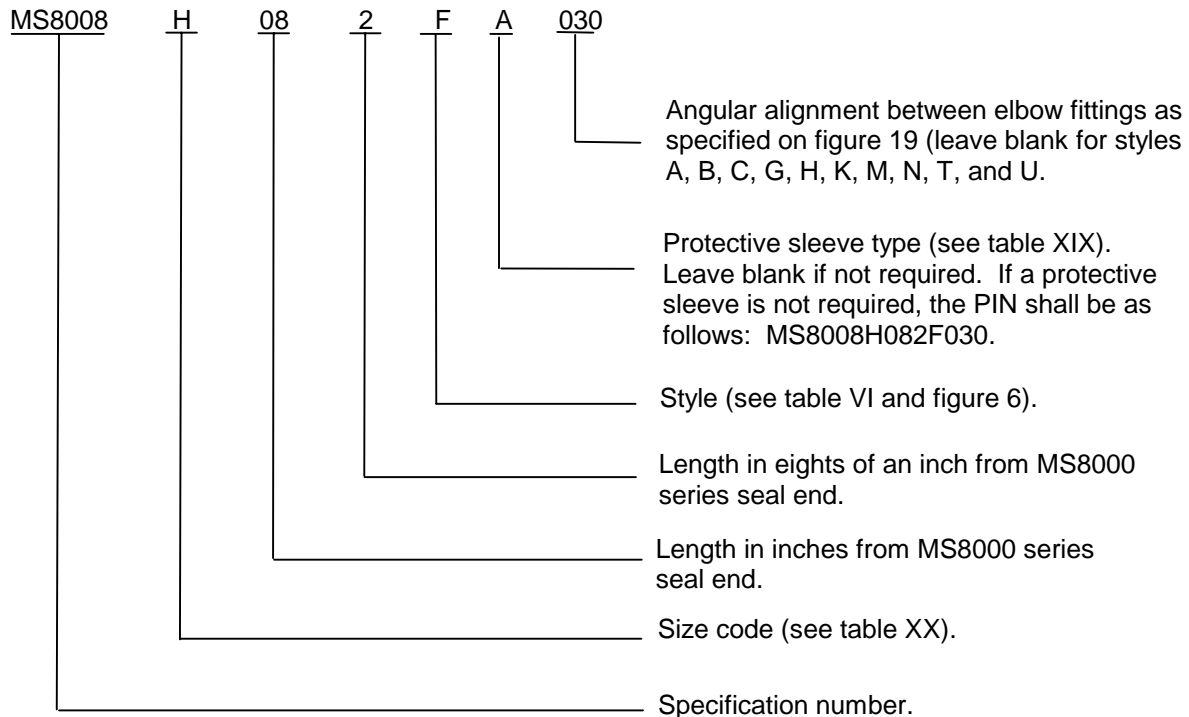
| Assembly size | 8 | 10 | 12 | 16 | 20 | 24 |
|---------------|-------|-------|-------|------|------|-------|
| Ball diameter | 0.313 | 0.391 | 0.515 | .758 | .969 | 1.188 |

^{1/} The fitting elbow bend shall be examined for ovality by rolling a ball of applicable diameter through the elbow fitting. The ball shall pass freely through the fitting elbow bend.

MS8008C

PIN: The PIN for each hose assembly shall include its size code, length, style, protective sleeve type, and the angular alignment between the elbow fittings, as applicable.

Example: The PIN for an 8.250 inch (209.mm) length, style F hose assembly with a .500 inch (12.70 mm) tube OD, a fire protective sleeve in accordance with SAE AS1072, and a 30° between the elbow fittings shall be as follows:



Changes from previous issue: Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

CONCLUDING MATERIAL

Custodians:
 Army - AV
 Navy - AS
 Air Force - 99
 DLA - CC

Preparing activity:
 DLA - CC
 (Project 4720-0208-001)

Review activities:
 Army - AR, AT, EA, MI
 Navy - MC, SA, SH
 Air Force - 70