

INCH-POUND

 MS8006D
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 SUPERSEDING
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 9 September 2005

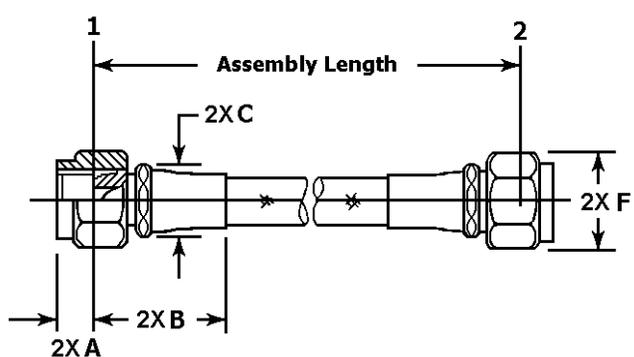
DETAIL SPECIFICATION SHEET

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

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.

Style A Hose assembly dimensions. Uses class 1 fittings which are made from corrosion resistant steel (CRES): See figure 1.



| Fitting ends | | Hose size | Dimensions inch (mm) | | | |
|--------------|--------------|---------------|----------------------|---------------|---------------|---------------|
| 1 | 2 | | A (nom) | B (max) | C (max) | F (max) |
| Straight | Straight | 3/4 | .191 (4.85) | 1.282 (32.56) | .620 (15.75) | .580 (14.73) |
| | | 4 | .222 (5.64) | 1.222 (31.04) | .620 (15.75) | .654 (16.61) |
| | | 5 | .235 (5.97) | 1.340 (34.04) | .680 (17.27) | .726 (18.44) |
| | | 6 | .230 (5.84) | 1.469 (37.31) | .750 (19.05) | .798 (20.27) |
| | | 8 | .310 (7.87) | 1.640 (41.66) | .880 (22.35) | 1.014 (25.76) |
| | | 10 | .356 (9.04) | 1.940 (49.28) | .967 (24.56) | 1.158 (29.41) |
| | | 12 | .393 (9.98) | 1.913 (48.59) | 1.122 (28.50) | 1.447 (36.75) |
| | | 16Z | .429 (10.90) | 2.298 (58.37) | 1.480 (37.59) | 1.736 (44.09) |
| | | 20Z | .393 (9.98) | 2.577 (65.46) | 1.750 (44.45) | 2.328 (59.13) |
| 24Z | .398 (10.11) | 2.800 (71.12) | 2.150 (54.61) | 2.621 (66.57) | | |

See notes at end of figure.

FIGURE 1. Style A hose assembly.

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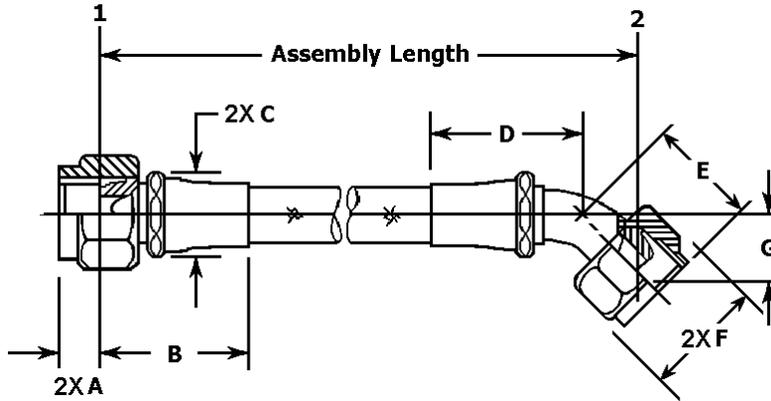
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "A" and "B" are based on end of MS8000 series seal.
4. Dimension "F" is measured across the corners.
5. Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.
6. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 1. Style A hose assembly - Continued.

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Style B Hose assembly dimensions. Uses class 1 fittings which are made from CRES: See figure 2.



| Fitting ends | | Hose size | Dimensions inches (mm) | | | | | | | |
|--------------|-----|-----------|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1 | 2 | | A (nom) | B (max) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) |
| Straight | 45° | 3/4 | .191 (4.85) | 1.282 (32.56) | .620 (15.75) | 1.240 (31.50) | .950 (24.13) | .580 (14.73) | .412 (10.46) | .537 (13.64) |
| | | 4 | .222 (5.64) | 1.222 (28.50) | .620 (15.75) | 1.490 (37.85) | .970 (24.64) | .654 (16.61) | .404 (10.26) | .529 (13.44) |
| | | 5 | .235 (5.97) | 1.340 (34.04) | .680 (17.27) | 1.495 (37.97) | 1.017 (25.83) | .726 (18.44) | .428 (10.87) | .553 (14.05) |
| | | 6 | .230 (5.84) | 1.469 (37.31) | .750 (19.05) | 1.610 (40.89) | 1.122 (28.50) | .798 (20.27) | .506 (12.85) | .631 (16.03) |
| | | 8 | .310 (7.87) | 1.640 (41.66) | .880 (22.35) | 1.722 (43.74) | 1.426 (36.22) | 1.014 (25.76) | .542 (13.77) | .789 (20.04) |
| | | 10 | .356 (9.04) | 1.940 (49.28) | .967 (24.56) | 2.037 (51.74) | 1.596 (40.54) | 1.158 (29.41) | .631 (16.03) | .877 (22.28) |
| | | 12 | .393 (9.98) | 1.913 (48.59) | 1.122 (28.50) | 2.368 (60.15) | 1.739 (44.17) | 1.447 (36.75) | .631 (16.03) | .952 (24.18) |
| | | 16Z | .429 (10.90) | 2.298 (58.37) | 1.480 (37.59) | 2.583 (65.61) | 1.931 (49.05) | 1.736 (44.09) | .741 (18.82) | 1.069 (15.47) |
| | | 20Z | .393 (9.98) | 2.577 (65.46) | 1.750 (44.45) | 2.946 (74.83) | 2.084 (52.93) | 2.328 (59.13) | .863 (21.92) | 1.196 (30.38) |
| | | 24Z | 0.398 (10.11) | 2.800 (71.12) | 2.150 (54.61) | 3.210 (81.53) | 2.376 (60.35) | 2.621 (66.57) | 1.012 (25.70) | 1.402 (35.61) |

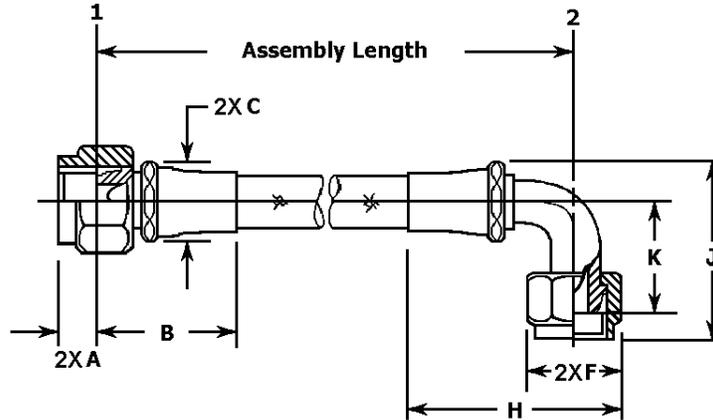
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "A" and "B" are based on end of MS8000 series seal.
4. Dimension "E (max)" is an installation dimension and not design dimension.
5. Dimension "F" is measured across the corners.
6. Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.
7. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 2. Style B hose assembly.

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Style C Hose assembly dimensions. Uses class 1 fittings which are made from corrosion resistant steel (CRES): See figure 3.



| Fitting ends | | Hose size | Dimensions inch (mm) | | | | | | | |
|--------------|-----|-----------|-------------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|
| 1 | 2 | | A (nom) | B (max) | C (max) | F (max) | H (max) | J (max) | K (min) | K (max) |
| Straight | 90° | 3/4 | .191 (4.85) | 1.282 (32.56) | .620 (15.75) | .580 (14.73) | 1.845 (46.86) | 1.350 (34.29) | .721 (18.31) | .846 (21.49) |
| | | 4 | .222 (5.64) | 1.222 (31.04) | .620 (15.75) | .654 (16.61) | 1.885 (47.88) | 1.370 (34.80) | .705 (17.91) | .830 (21.08) |
| | | 5 | .235 (5.97) | 1.340 (34.04) | .680 (17.27) | .726 (18.44) | 1.980 (50.29) | 1.550 (39.37) | .788 (20.02) | .975 (24.77) |
| | | 6 | .230 (5.84) | 1.469 (37.31) | .750 (19.05) | .798 (20.27) | 2.205 (56.01) | 1.687 (42.85) | .895 (22.73) | 1.082 (27.48) |
| | | 8 | .310 (7.87) | 1.640 (41.66) | .880 (22.35) | 1.014 (25.76) | 2.495 (63.37) | 2.032 (51.61) | 1.032 (26.21) | 1.282 (32.56) |
| | | 10 | .356 (9.04) | 1.940 (49.28) | .967 (24.56) | 1.158 (29.41) | 2.955 (75.06) | 2.437 (61.90) | 1.357 (34.47) | 1.607 (40.82) |
| | | 12 | .393 (9.98) | 1.913 (48.59) | 1.122 (28.50) | 1.447 (36.75) | 3.705 (94.11) | 2.795 (70.99) | 1.591 (40.41) | 1.841 (46.76) |
| | | 16Z | .429 (10.90) | 2.298 (58.37) | 1.480 (37.59) | 1.736 (44.09) | 4.100 (104.14) | 3.160 (80.26) | 1.741 (44.22) | 1.991 (50.57) |
| | | 20Z | .393 (9.98) | 2.577 (65.46) | 1.750 (44.45) | 2.328 (59.13) | 4.835 (122.81) | 3.664 (93.07) | 2.021 (51.33) | 2.396 (60.86) |
| | | 24Z | .398 (10.11) | 2.800 (71.12) | 2.150 (54.61) | 2.621 (66.57) | 5.480 (139.19) | 4.251 (107.98) | 2.403 (61.04) | 2.778 (70.56) |

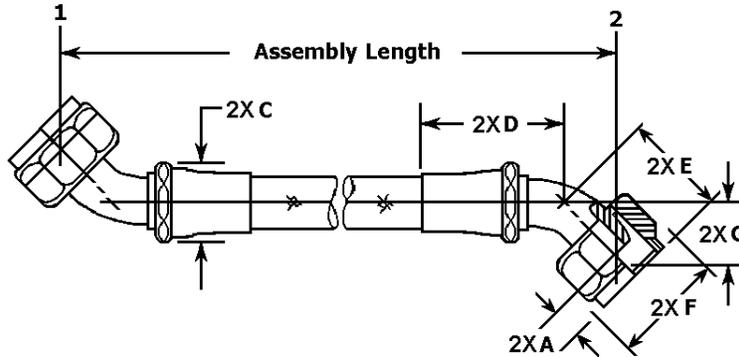
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "A" and "B" are based on end of MS8000 series seal.
4. Dimension "F" is measured across the corners.
5. Dimension "J (max)" is an installation dimension and not design dimension.
6. Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.
7. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 3. Style C hose assembly - Continued.

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Style D Hose assembly dimensions. Uses class 1 fittings which are made from corrosion resistant steel (CRES): See figure 4.



| Fitting ends | | Hose size | Dimensions inch (mm) | | | | | | |
|--------------|-----|-----------|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1 | 2 | | A (nom) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) |
| 45° | 45° | 3/4 | .191 (4.85) | .620 (15.75) | 1.240 (31.50) | .950 (24.13) | .580 (14.73) | .412 (10.46) | .537 (13.64) |
| | | 4 | .222 (5.64) | .620 (15.75) | 1.490 (37.85) | .970 (24.64) | .654 (16.61) | .404 (10.26) | .529 (13.44) |
| | | 5 | .235 (5.97) | .680 (17.27) | 1.495 (37.97) | 1.017 (25.83) | .726 (18.44) | .428 (10.87) | .553 (14.05) |
| | | 6 | .230 (5.84) | .750 (19.05) | 1.610 (40.89) | 1.122 (28.50) | .798 (20.27) | .506 (12.85) | .631 (16.03) |
| | | 8 | .310 (7.87) | .880 (22.35) | 1.722 (43.74) | 1.426 (36.22) | 1.014 (28.04) | .542 (13.77) | .789 (20.04) |
| | | 10 | .356 (9.04) | .967 (24.56) | 2.037 (51.74) | 1.596 (40.54) | 1.158 (29.41) | .631 (16.03) | .877 (22.28) |
| | | 12 | .393 (9.98) | 1.122 (28.50) | 2.368 (60.15) | 1.739 (44.17) | 1.447 (36.75) | .631 (16.03) | .952 (24.18) |
| | | 16Z | .429 (10.90) | 1.480 (37.59) | 2.583 (65.61) | 1.931 (49.05) | 1.736 (44.09) | .741 (18.82) | 1.069 (27.15) |
| | | 20Z | .393 (9.98) | 1.750 (44.45) | 2.946 (74.83) | 2.084 (52.93) | 2.328 (59.13) | .863 (21.92) | 1.196 (30.38) |
| | | 24Z | .398 (10.11) | 2.150 (54.61) | 3.210 (81.53) | 2.376 (60.35) | 2.621 (66.57) | 1.012 (25.70) | 1.402 (35.31) |

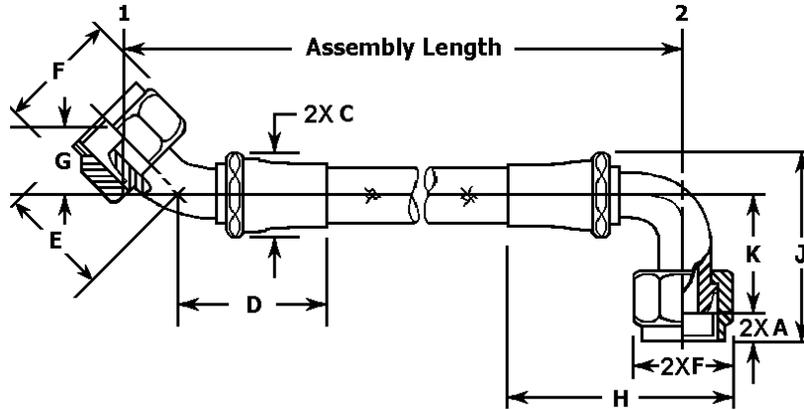
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "A" is based on end of MS8000 series seal.
4. Dimension "E (max)" is an installation dimension and not design dimension.
5. Dimension "F" is measured across the corners.
6. Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.
7. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 4. Style D hose assembly - Continued.

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Style E hose assembly dimensions. Uses class 1 fittings which are made from corrosion resistant steel (CRES): See figure 5.



| Fitting ends | | Hose size | Dimensions inch (mm) | | | | | | |
|--------------|-----|-----------|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | A (nom) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) |
| 1 | 2 | | | | | | | | |
| 45° | 90° | 3/4 | .191 (4.85) | .620 (15.75) | 1.24 (31.50) | .950 (24.13) | .580 (14.73) | .412 (10.69) | .537 (13.64) |
| | | 4 | .222 (5.64) | .620 (15.75) | 1.490 (37.85) | .970 (24.64) | .654 (16.61) | .404 (10.26) | .529 (13.44) |
| | | 5 | .235 (5.97) | .680 (17.27) | 1.495 (37.97) | 1.017 (26.83) | .726 (18.44) | .428 (10.87) | .553 (14.05) |
| | | 6 | .230 (5.84) | .750 (19.05) | 1.610 (40.89) | 1.122 (28.50) | .798 (20.27) | .506 (12.85) | .631 (16.03) |
| | | 8 | .310 (7.87) | .880 (22.35) | 1.722 (43.74) | 1.426 (36.22) | 1.014 (25.76) | .542 (13.77) | .789 (20.04) |
| | | 10 | .356 (9.04) | .967 (24.56) | 2.037 (51.74) | 1.596 (40.54) | 1.158 (29.41) | .631 (16.03) | .877 (22.28) |
| | | 12 | .393 (9.98) | 1.122 (28.50) | 2.368 (60.15) | 1.739 (44.17) | 1.447 (36.75) | .631 (16.03) | .952 (24.18) |
| | | 16Z | .429 (10.90) | 1.480 (37.59) | 2.583 (65.61) | 1.931 (49.05) | 1.736 (44.09) | .741 (18.82) | 1.069 (27.15) |
| | | 20Z | .393 (9.98) | 1.750 (44.45) | 2.946 (74.83) | 2.084 (52.93) | 2.328 (59.13) | .863 (21.92) | 1.196 (30.38) |
| | | 24Z | .398 (10.11) | 2.150 (54.61) | 3.210 (81.53) | 2.376 (60.35) | 2.621 (66.57) | 1.012 (25.70) | 1.402 (35.61) |

See notes at end of figure.

FIGURE 5. Style E hose assembly.

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| Fitting ends | | Hose size | Dimensions inch (mm) | | | |
|--------------|-----|-----------|-------------------------|-------------------|------------------|------------------|
| | | | H (max) | J (max) | K (min) | K (max) |
| 1 | 2 | | | | | |
| 45° | 90° | 3/4 | 1.845 (46.86) | 1.350 (34.29) | .721 (18.31) | .846 (21.49) |
| | | 4 | 1.885 (47.88) | 1.370 (34.80) | .705 (17.91) | .830 (21.08) |
| | | 5 | 1.980 (50.29) | 1.550 (39.37) | .788 (20.02) | .975 (24.77) |
| | | 6 | 2.205 (56.01) | 1.687 (42.85) | .895 (22.73) | 1.082 (27.48) |
| | | 8 | 2.495 (63.37) | 2.032 (58.47) | 1.032 (26.21) | 1.282 (32.56) |
| | | 10 | 2.955 (75.06) | 2.437 (61.90) | 1.357 (34.47) | 1.607 (40.82) |
| | | 12 | 3.705 (94.11) | 2.795 (70.99) | 1.591 (40.41) | 1.841 (46.76) |
| | | 16Z | 4.100 (104.14) | 3.160 (80.26) | 1.741 (44.22) | 1.991 (50.57) |
| | | 20Z | 4.835 (122.81) | 3.664 (93.07) | 2.021 (51.33) | 2.396 (60.86) |
| | | 24Z | 5.480 (139.19) | 4.251 (107.98) | 2.403 (61.04) | 2.778 (70.56) |

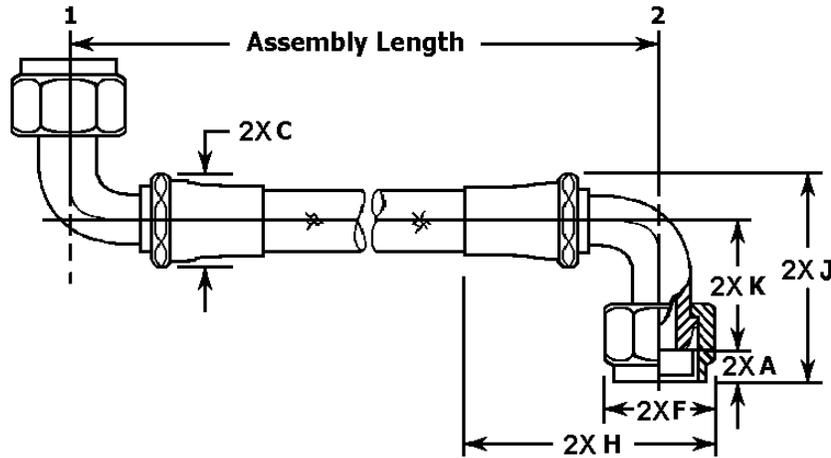
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "A" is based on end of MS8000 series seal.
4. Dimensions "E (max)" and J (max)" are installation dimensions and not design dimensions.
5. Dimension "F" is measured across the corners.
6. Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.
7. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 5. Style E hose assembly.

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Style F hose assembly dimensions. Uses class 1 fittings which are made from corrosion resistant steel (CRES): See figure 6.



| Fitting ends | | Hose size | Dimensions inch (mm) | | | | | | |
|--------------|-----|-----------|-------------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|
| 1 | 2 | | A (nom) | C (max) | F (max) | H (max) | J (max) | K (min) | K (max) |
| 90° | 90° | 3/4 | .191 (4.85) | .620 (15.75) | .580 (14.73) | 1.845 (46.86) | 1.350 (34.29) | .721 (18.31) | .846 (21.49) |
| | | 4 | .222 (5.64) | .620 (15.75) | .654 (16.61) | 1.885 (47.88) | 1.370 (34.80) | .705 (17.91) | .830 (21.08) |
| | | 5 | .235 (5.97) | .680 (17.27) | .726 (18.44) | 1.980 (50.29) | 1.550 (39.37) | .788 (20.02) | .975 (24.77) |
| | | 6 | .230 (5.84) | .750 (19.05) | .798 (20.27) | 2.205 (56.01) | 1.687 (42.85) | .895 (22.73) | 1.082 (27.48) |
| | | 8 | .310 (7.87) | .880 (22.35) | 1.014 (25.76) | 2.495 (63.37) | 2.032 (51.61) | 1.032 (33.07) | 1.282 (32.56) |
| | | 10 | .356 (9.04) | .967 (24.56) | 1.158 (29.41) | 2.955 (75.06) | 2.437 (61.90) | 1.357 (34.93) | 1.607 (40.82) |
| | | 12 | .393 (9.98) | 1.122 (28.50) | 1.447 (36.75) | 3.705 (94.11) | 2.795 (70.99) | 1.591 (40.41) | 1.841 (46.76) |
| | | 16Z | .429 (10.90) | 1.480 (37.59) | 1.736 (44.09) | 4.100 (104.14) | 3.160 (80.26) | 1.741 (44.22) | 1.991 (50.57) |
| | | 20Z | .393 (9.98) | 1.750 (44.45) | 2.328 (59.13) | 4.835 (122.81) | 3.664 (93.07) | 2.021 (51.33) | 2.396 (60.86) |
| | | 24Z | .398 (10.11) | 2.150 (54.61) | 2.621 (66.57) | 5.480 (139.19) | 4.251 (107.98) | 2.403 (61.04) | 2.778 (70.56) |

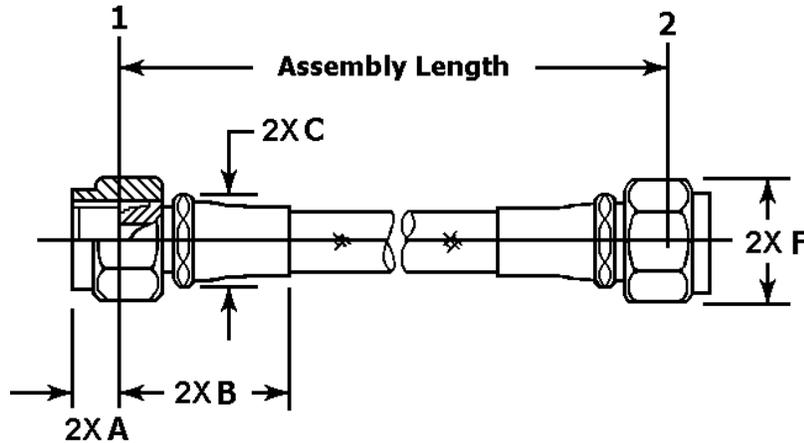
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Style F uses class 1 fittings which are made from CRES.
4. Dimension "A" is based on end of MS8000 series seal.
5. Dimension "F" is measured across the corners.
6. Dimension "J (max)" is installation dimension and not design dimension.
7. Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.
8. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 6. Style F hose assembly.

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Style G hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 7.



| Fitting ends | | Hose size | Dimensions inch (mm) | | | |
|--------------|----------|-----------|-------------------------|---------------|---------------|---------------|
| 1 | 2 | | A (nom) | B (max) | C (max) | F (max) |
| Straight | Straight | 8 | .310 (7.87) | 1.640 (41.66) | .880 (22.35) | 1.014 (25.76) |
| | | 10 | .356 (9.04) | 1.940 (49.28) | .967 (24.56) | 1.158 (29.41) |
| | | 12 | .393 (9.98) | 1.913 (48.59) | 1.122 (28.50) | 1.447 (36.75) |
| | | 16Z | .429 (10.90) | 2.298 (58.37) | 1.480 (37.59) | 1.736 (44.09) |
| | | 20Z | .393 (9.98) | 2.577 (65.46) | 1.750 (44.45) | 2.328 (59.13) |
| | | 24Z | .398 (10.11) | 2.800 (71.12) | 2.150 (54.61) | 2.621 (66.57) |

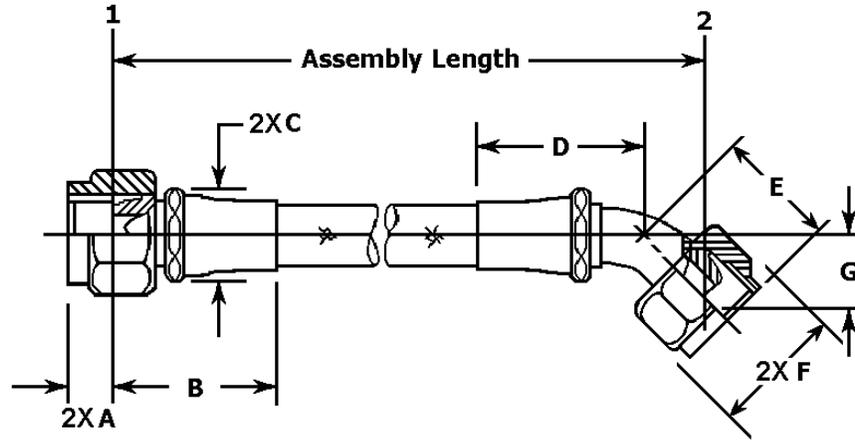
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "A" and "B" are based on end of MS8000 seal.
4. Dimension "F" is measured across the corners.
5. Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.
6. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 7. Style G hose assembly.

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Style H hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 8.



| Fitting ends | | Hose size | Dimensions inch inch (mm) | | | | | | | |
|--------------|-----|-----------|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1 | 2 | | A (nom) | B (max) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) |
| Straight | 45° | 8 | .310 (7.87) | 1.640 (41.66) | 0.880 (22.35) | 1.722 (43.74) | 1.426 (36.22) | 1.014 (25.76) | .542 (13.77) | .789 (20.04) |
| | | 10 | .356 (9.04) | 1.940 (49.28) | 0.967 (24.56) | 2.037 (51.74) | 1.596 (40.54) | 1.158 (29.41) | .631 (16.03) | .877 (22.28) |
| | | 12 | .393 (9.98) | 1.913 (48.59) | 1.122 (28.50) | 2.368 (60.15) | 1.739 (44.17) | 1.447 (36.75) | .631 (16.03) | .952 (24.18) |
| | | 16Z | .429 (10.90) | 2.298 (58.37) | 1.480 (37.59) | 2.583 (65.61) | 1.931 (49.05) | 1.736 (44.09) | .741 (18.82) | 1.069 (27.15) |
| | | 20Z | .393 (9.98) | 2.577 (65.46) | 1.750 (44.45) | 2.946 (74.83) | 2.084 (52.93) | 2.328 (59.13) | 0.863 (21.92) | 1.196 (30.38) |
| | | 24Z | .398 (10.11) | 2.800 (71.12) | 2.150 (54.61) | 3.210 (81.53) | 2.376 (60.35) | 2.621 (66.57) | 1.012 (25.70) | 1.402 (35.61) |

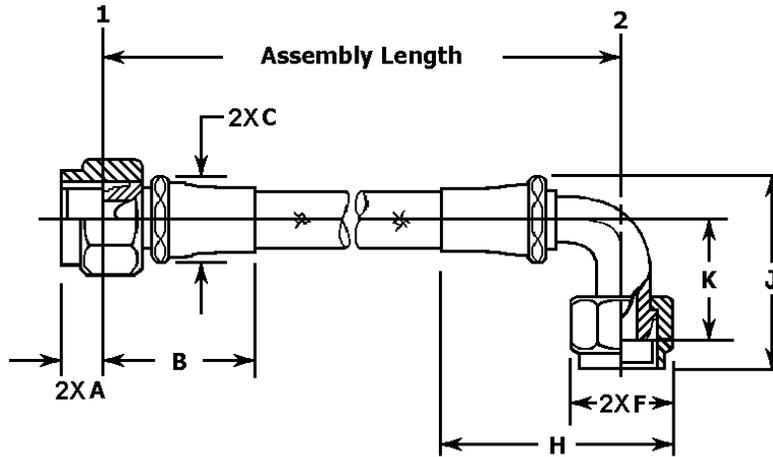
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "A" and "B" are based on end of MS8000 series seal.
4. Dimension "E (max)" is an installation dimension and not design dimension.
5. Dimension "F" is measured across the corners.
6. Assembly length (see PIN) is based on end of MS800 series seal to face of flange.
7. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 8. Style H hose assembly.

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Style J hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 9.



| Fitting ends | | Hose size | Dimensions inch (mm) | | | | | | | |
|--------------|-----|-----------|-------------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|
| 1 | 2 | | A (nom) | B (max) | C (max) | F (max) | H (max) | J (max) | K (min) | K (max) |
| Straight | 90° | 8 | .310 (7.87) | 1.640 (41.66) | .880 (22.35) | 1.014 (25.76) | 2.495 (41.66) | 2.032 (51.61) | 1.032 (26.21) | 1.282 (32.56) |
| | | 10 | .356 (9.04) | 1.940 (49.28) | .967 (24.56) | 1.158 (29.41) | 2.955 (75.06) | 2.437 (61.90) | 1.357 (34.47) | 1.607 (40.82) |
| | | 12 | .393 (9.98) | 1.913 (48.59) | 1.122 (28.50) | 1.447 (36.75) | 3.705 (94.11) | 2.795 (75.57) | 1.591 (40.41) | 1.841 (46.76) |
| | | 16Z | .429 (10.90) | 2.298 (58.37) | 1.480 (37.59) | 1.736 (44.09) | 4.100 (104.14) | 3.160 (80.26) | 1.741 (44.22) | 1.991 (50.57) |
| | | 20Z | .393 (9.98) | 2.577 (65.46) | 1.750 (44.45) | 2.328 (59.13) | 4.835 (122.81) | 3.664 (85.45) | 2.021 (51.33) | 2.396 (60.86) |
| | | 24Z | .398 (10.11) | 2.800 (71.12) | 2.150 (54.61) | 2.621 (66.57) | 5.480 (139.19) | 4.251 (107.98) | 2.403 (61.04) | 2.778 (70.56) |

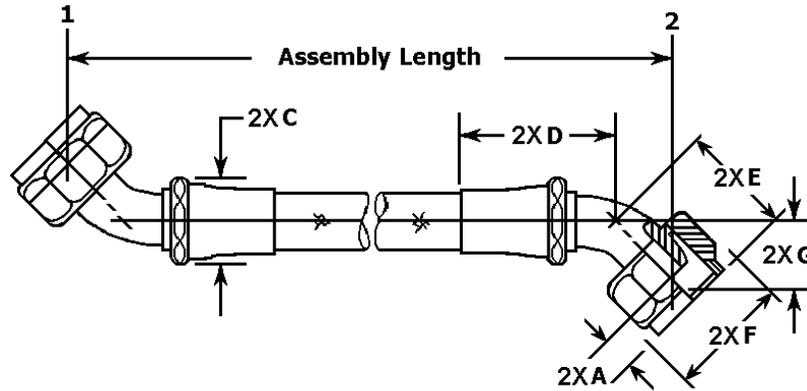
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "A" and "B" are based on end of MS8000 series seal.
4. Dimension "F" is measured across the corners.
5. Dimension "J (max)" is an installation dimension and not design dimension.
6. Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.
7. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 9. Style J hose assembly.

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Style K hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 10.



| Fitting ends | | Hose size | Dimensions inch (mm) | | | | | | |
|--------------|-----|-----------|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1 | 2 | | A (nom) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) |
| 45° | 45° | 8 | .310 (7.87) | .880 (22.35) | 1.722 (43.74) | 1.426 (36.22) | 1.014 (25.76) | .542 (13.77) | .789 (20.04) |
| | | 10 | .356 (9.04) | .967 (24.56) | 2.037 (51.74) | 1.596 (40.54) | 1.158 (29.41) | .631 (16.03) | .877 (22.78) |
| | | 12 | .393 (9.98) | 1.122 (28.50) | 2.368 (60.15) | 1.739 (44.17) | 1.447 (36.75) | .631 (16.03) | .952 (24.18) |
| | | 16Z | .429 (10.90) | 1.480 (37.59) | 2.583 (65.61) | 1.931 (49.05) | 1.736 (44.09) | .741 (18.82) | 1.069 (27.15) |
| | | 20Z | .393 (9.98) | 1.750 (44.45) | 2.946 (74.83) | 2.084 (52.93) | 2.328 (59.13) | .863 (21.92) | 1.196 (30.38) |
| | | 24Z | .398 (10.11) | 2.150 (54.61) | 3.210 (81.53) | 2.376 (60.35) | 2.621 (66.57) | 1.012 (25.70) | 1.402 (35.61) |

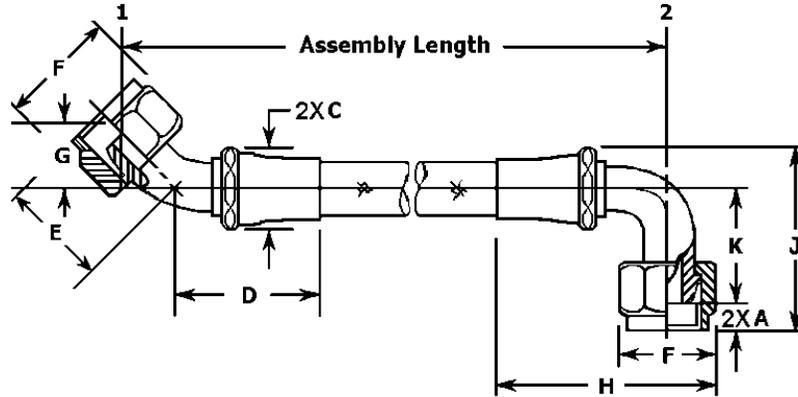
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "A" is based on end of MS8000 seal.
4. Dimension "E (max)" is an installation dimension and not design dimension.
5. Dimension "F" is measured across the corners.
6. Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.
7. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 10. Style K hose assembly.

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Style M hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 11.



| Fitting ends | | Hose size | Dimensions inch (mm) | | | | | | |
|--------------|-----|-----------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | A (nom) | C (max) | D (max) | E (max) | F (max) | G (min) | G (max) |
| 1 | 2 | | | | | | | | |
| 45° | 90° | 8 | .310 (7.87) | .880 (22.35) | 1.722 (43.74) | 1.426 (36.22) | 1.014 (25.76) | 0.542 (13.77) | .789 (20.04) |
| | | 10 | .356 (9.04) | 0.967 (24.56) | 2.037 (51.74) | 1.596 (40.54) | 1.158 (29.41) | 0.631 (16.03) | .877 (22.78) |
| | | 12 | .393 (9.98) | 1.122 (28.50) | 2.368 (60.15) | 1.739 (44.17) | 1.447 (36.75) | 0.631 (16.03) | .952 (24.18) |
| | | 16Z | .429 (10.90) | 1.480 (37.59) | 2.583 (65.61) | 1.931 (49.05) | 1.736 (44.09) | 0.741 (18.82) | 1.069 (27.15) |
| | | 20Z | .393 (9.98) | 1.750 (44.45) | 2.946 (74.83) | 2.084 (52.93) | 2.328 (59.13) | 0.863 (21.92) | 1.196 (30.38) |
| | | 24Z | .398 (10.11) | 2.150 (54.61) | 3.210 (81.53) | 2.376 (60.35) | 2.621 (66.57) | 1.012 (25.70) | 1.402 (35.61) |

| Fitting ends | | Hose size | Dimensions inch (mm) | | | |
|--------------|-----|-----------|----------------------|-------------------|------------------|------------------|
| | | | H (max) | J (max) | K (min) | K (max) |
| 1 | 2 | | | | | |
| 45° | 90° | 8 | 2.495 (63.37) | 2.032 (51.61) | 1.032 (26.21) | 1.282 (32.56) |
| | | 10 | 2.955 (75.06) | 2.437 (61.90) | 1.357 (34.47) | 1.607 (40.82) |
| | | 12 | 3.705 (94.11) | 2.795 (70.99) | 1.591 (40.41) | 1.841 (46.76) |
| | | 16Z | 4.100 (104.14) | 3.160 (80.26) | 1.741 (44.22) | 1.991 (50.57) |
| | | 20Z | 4.835 (122.81) | 3.664 (93.07) | 2.021 (51.33) | 2.396 (60.86) |
| | | 24Z | 5.480 (139.19) | 4.251 (107.98) | 2.403 (61.04) | 2.778 (70.56) |

See notes at end of figure.

FIGURE 11. Style M hose assembly.

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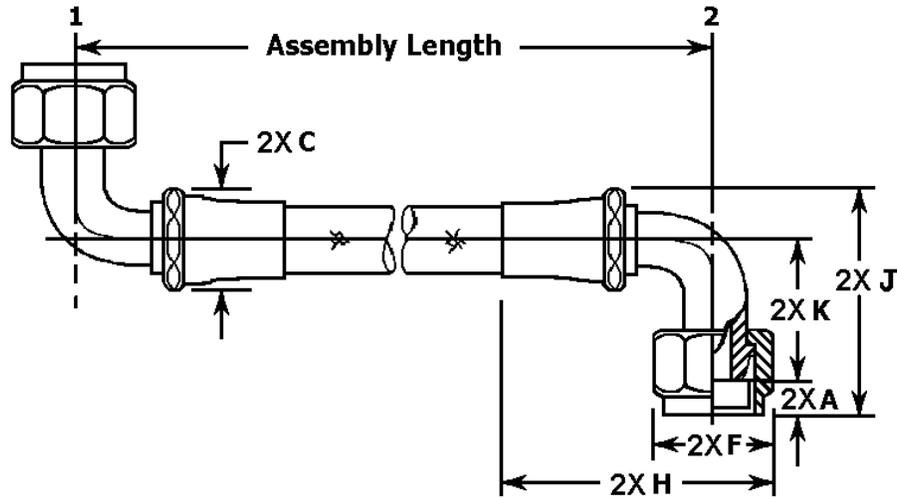
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions are shown on figure 11.
4. Dimensions "A" is based on end of MS8000 seal.
5. Dimensions "E (max)" and "J (max)" are installation dimensions and not design dimensions.
6. Dimension "F" is measured across the corners.
7. Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.
8. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 11. Style M hose assembly - Continued.

MS8006D

Style N hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 12.



| Fitting ends | | Hose size | Dimensions (see note 3) inch (mm) | | | | | | |
|--------------|-----|-----------|--------------------------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|
| 1 | 2 | | A (nom) | C (max) | F (max) | H (max) | J (max) | K (min) | K (max) |
| 90° | 90° | 8 | .310 (7.87) | .880 (22.35) | 1.014 (25.76) | 2.495 (63.37) | 2.032 (51.61) | 1.032 (26.21) | 1.282 (32.56) |
| | | 10 | .356 (9.04) | 0.967 (24.56) | 1.158 (29.41) | 2.955 (75.06) | 2.437 (61.90) | 1.357 (34.47) | 1.607 (40.82) |
| | | 12 | .393 (9.98) | 1.122 (28.50) | 1.447 (36.75) | 3.705 (94.11) | 2.795 (70.99) | 1.591 (40.41) | 1.841 (46.76) |
| | | 16Z | .429 (10.90) | 1.480 (37.59) | 1.736 (44.09) | 4.100 (104.14) | 3.160 (80.26) | 1.741 (44.22) | 1.991 (50.57) |
| | | 20Z | .393 (9.98) | 1.750 (44.45) | 2.328 (59.13) | 4.835 (122.81) | 3.664 (93.07) | 2.021 (51.33) | 2.396 (60.86) |
| | | 24Z | .398 (10.11) | 2.150 (54.61) | 2.621 (66.57) | 5.480 (139.19) | 4.251 (107.98) | 2.403 (61.04) | 2.778 (70.56) |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions are shown on figure 12.
4. Dimensions "A" is based on end of MS8000 series seal.
5. Dimension "F" is measured across the corners.
6. Dimension "J (max)" is an installation dimension and not design dimension.
7. Assembly length (see PIN) is based on end of MS8000 series seal to face of flange.
8. Apply NAS1760 in accordance with MIL-DTL-25579/1, see requirements.

FIGURE 12. Style N hose assembly.

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REQUIREMENTS:

Dimensions: Unless otherwise specified, all dimensions are in inches.

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

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.

Hose assembly size code: See table I.

TABLE I. Hose assembly size code. 1/ 2/

| Size code | Size | Reference tube OD Inch (mm) |
|-----------|-------------------|--------------------------------|
| B | 3/4 ^{3/} | .250 (6.35) |
| E | 4 | .250 (6.35) |
| F | 5 | .313 (7.95) |
| G | 6 | .375 (9.53) |
| H | 8 | .500 (12.70) |
| J | 10 | .625 (15.88) |
| K | 12 | .750 (19.05) |
| M | 16Z | 1.000 (25.40) |
| N | 20Z | 1.250 (31.75) |
| P | 24Z | 1.500 (38.10) |

^{1/} Dimensions are in inches.

^{2/} Metric equivalents are given for information only.

^{3/} Size 3/4 hose assembly consists of a size 4 tube OD hose assembled with size 3 tube OD fittings.

MIL-DTL-25579/1 is used to determine the hose assembly length measurement for NAS 1760 and MS8000 Series Seal, (Globe Seal, or Radius Seal) to flareless fitting end design.

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:

- a. $\pm 1/8$ inch for lengths under 18 inches.
- b. $\pm 1/4$ inch for lengths from 18 inches to 36 inches.
- c. $\pm 1/2$ inch for lengths from 36 inches to 50 inches.
- d. $\pm 1\%$ for lengths over 50 inches.

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Protective sleeve (fire, abrasion, or chafe guard) or lock wire holes: If required, the hose assembly shall include a protective sleeve or lock wire holes (see table II) and its code shall be included in the PIN. Fire protective sleeves shall be subjected to testing in accordance with MIL-DTL-25579. Fire protective sleeve attachment, see figure 13.

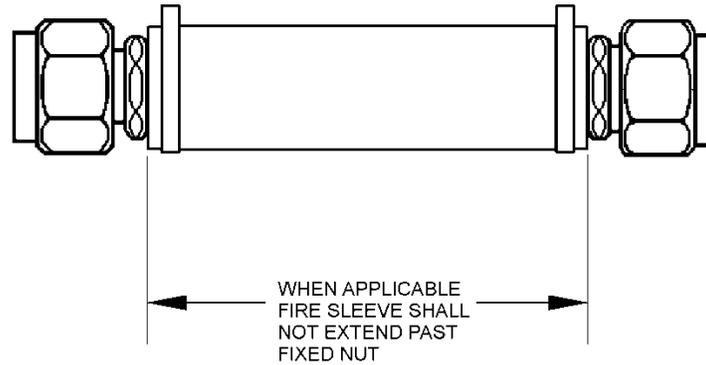


FIGURE 13. Fire protection sleeve attachment.

TABLE II. Protective sleeve and lock wire holes code.

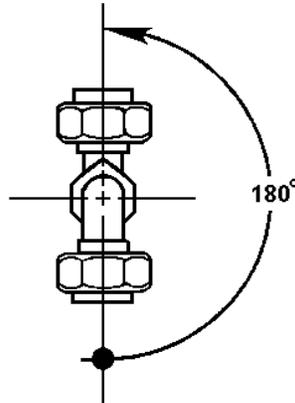
| Code | Sleeve type | Type |
|------|---------------------------|---|
| A | Fire | In accordance with SAE-AS1072, silicone covered, temperature ranging from -65°F to 450°F (-54°C to 232°C) and intermittently to 500°F (260°C), secured with CRES bands as required. ^{1/} |
| B | Abrasion protection | In accordance with SAE-AS1073, heat shrinkable, black polyolefin, temperature ranging from -65°F to 250°F (-54°C to 121°C). |
| C | Chafe guard (white) | In accordance with SAE-AS1291 extruded seamless white PTFE, temperature ranging from -65°F to 450°F (-54°C to 232°C), secured with CRES bands as required. |
| D | Chafe guard (transparent) | In accordance with SAE-AS1291, extruded seamless transparent FEP, temperature ranging from -65°F to 350°F (-54°C to 177°C), secured with CRES bands as required. |
| E | Heavy wall chafe guard | In accordance with SAE-AS1298, extruded seamless black PTFE, temperature ranging from -65°F to 450°F (-54°C to 232°C), secured with CRES bands as required. |
| L | Not applicable | Lock-wire holes |
| F | Fire | Code A + L ^{1/} |
| G | Abrasion protection | Code B + L |
| H | Chafe guard (white) | Code C + L |
| J | Chafe guard (transparent) | Code D + L |
| K | heavy wall chafe guard | Code E + L |

^{1/} To prevent wicking of fluids, the cut end of the fire protective sleeve (codes A and F) 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.

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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 13). When applicable, the angular alignment shall be expressed in three digits and specified in the PIN.

Flareless fitting, hose connector design: Use MIL-DTL-25579/1 for application of NAS 1760 design or radius ball-nose design.



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

FIGURE 14. Measurement of angular alignment between elbow fittings.

The assembly, with attached fittings, shall be examined for any excessive restriction to the fitting passage by rolling a ball of the applicable diameter, see table III, through the assembly. The ball shall pass freely through the assembly.

TABLE III. Assembly passage. 1/ 2/

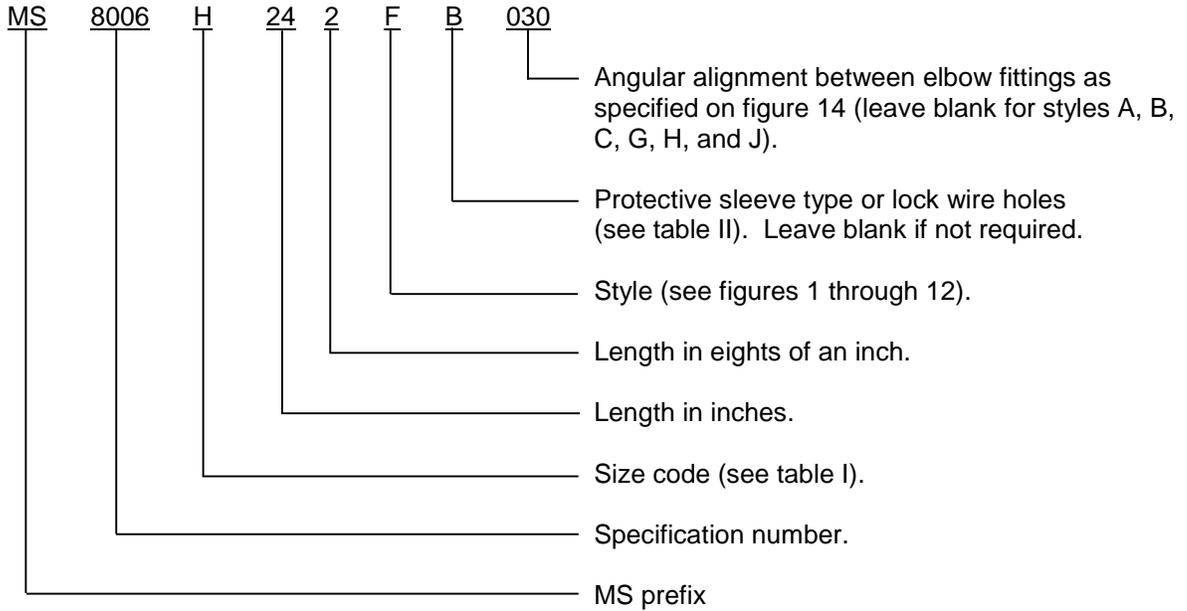
| Assembly Size | 3/4 | 4 | 5 | 6 | 8 | 10 | 12 | 16Z | 20Z | 24Z |
|----------------------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| Ball diameter | .072 | .119 | .174 | .230 | .306 | .387 | .493 | .700 | .900 | 1.125 |
| Straight fittings | (1.83) | (3.02) | (4.42) | (5.84) | (7.77) | (9.83) | (12.52) | (17.78) | (22.86) | (28.58) |
| Ball diameter at least one elbow | .068 | .112 | .164 | .218 | .289 | .366 | .466 | .661 | .850 | 1.063 |
| | (1.73) | (2.84) | (4.17) | (5.54) | (7.34) | (9.30) | (11.84) | (16.79) | (21.59) | (27.00) |

1/ Dimensions are in inches.

2/ Metric equivalents are given for information only.

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PIN: The PIN for each hose assembly shall include the prefix MS, specification number, size code letter, 2 digits for length in inches (0 - 99), 1 digit for eighths of an inch (0 - 8), style letter, protective sleeve type, lock wire holes, letter or blank, and the angular alignment between the elbow fittings blank or three digits.



PIN examples:

MS8006H242FB030 specifies a 24.250 (209.55 mm) inch length, style F hose assembly with a .500 inch (12.70 mm) tube OD, abrasion protection sleeve, and 30° between the elbow fittings.

MS8006H242F030 specifies a 24.250 (209.55 mm) inch length, style F hose assembly with a .500 inch (12.70 mm) tube OD, and 30° between the elbow fittings.

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.

Referenced documents. In addition to MIL-DTL-25579, this document references the following:

| | |
|-----------------|-------------|
| MIL-DTL-25579/1 | SAE-AS1291 |
| MS8000 | SAE-AS1298 |
| NAS1760 | SAE-AS8879 |
| SAE-AS1072 | SAE-AS33514 |
| SAE-AS1073 | |

MS8000 as specified herein is not a detail specification sheet. It is a design designator specified in MIL-DTL-25579/1.

MS8006D

CONCLUDING MATERIAL

Custodians:

Army - MI
Navy - AS
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 4720-2016-010)

Review activities:

Army - AR, AT, EA
Navy - MC, SA, SH
Air Force - 71

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