

INCH-POUND

MS8007D
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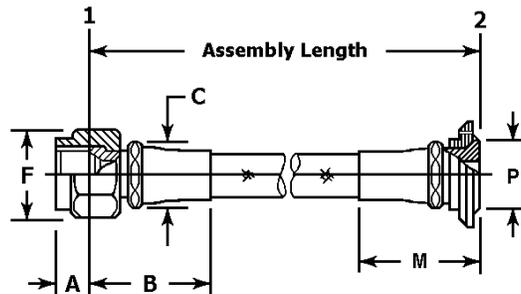
DETAIL SPECIFICATION SHEET

HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, PERMANENTLY ATTACHED
 FITTINGS, HIGH TEMPERATURE, MEDIUM PRESSURE, FLARE-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 sheet 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)	M (max)	P (max)
Straight	Straight	8	.438 (11.13)	1.465 (37.21)	.880 (22.35)	1.014 (25.76)	1.560 (39.62)	.875 (22.23)
		10	.515 (13.08)	1.680 (42.67)	.967 (24.56)	1.158 (29.41)	1.570 (39.88)	1.000 (25.40)
		12	.570 (14.48)	1.727 (43.87)	1.122 (28.50)	1.447 (36.75)	1.640 (41.66)	1.250 (31.75)
		16Z	.620 (15.75)	2.101 (53.37)	1.480 (37.59)	1.736 (44.09)	1.750 (44.45)	1.500 (38.10)
		20Z	.640 (16.26)	2.255 (57.28)	1.750 (44.45)	2.328 (59.13)	1.990 (50.55)	1.844 (46.84)
		24Z	.765 (19.43)	2.400 (60.96)	2.150 (54.61)	2.621 (66.57)	2.260 (57.40)	2.125 (53.98)

NOTES:

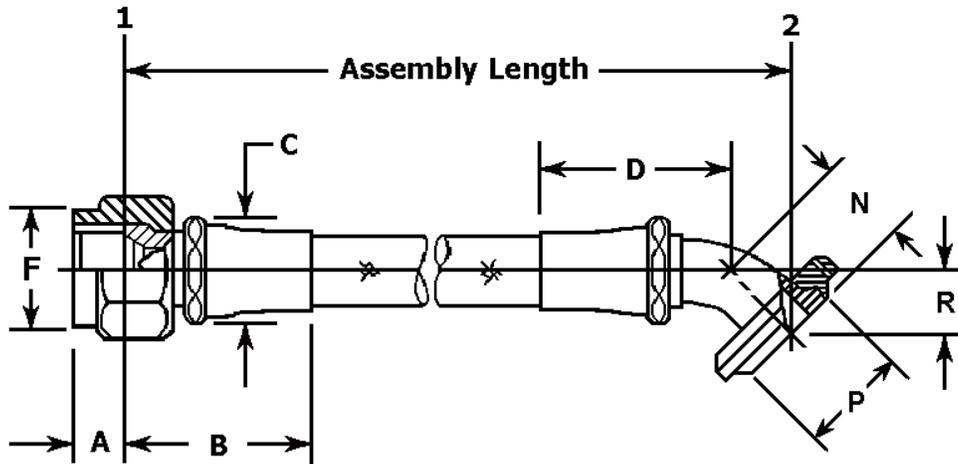
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.

FIGURE 1. Style A hose assembly.



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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 inch (mm)								
1	2		A (nom)	B (max)	C (max)	D (max)	F (max)	N (max)	P (max)	R (min)	R (max)
Straight	45°	8	.438 (18.75)	1.465 (37.21)	.880 (22.35)	1.722 (43.74)	1.014 (25.76)	.606 (15.39)	.875 (22.23)	.303 (7.70)	.428 (10.87)
		10	.515 (13.08)	1.680 (42.67)	0.967 (24.56)	2.037 (51.74)	1.158 (29.41)	.658 (16.71)	1.000 (25.40)	.340 (8.64)	.465 (11.81)
		12	.570 (14.48)	1.727 (43.87)	1.122 (28.50)	2.368 (60.15)	1.447 (36.75)	.789 (20.40)	1.250 (31.75)	.433 (11.00)	.558 (14.17)
		16Z	.620 (15.75)	2.101 (53.37)	1.480 (37.59)	2.583 (65.61)	1.736 (43.84)	.929 (23.60)	1.500 (38.10)	.470 (11.94)	.657 (16.69)
		20Z	.640 (16.26)	2.255 (57.28)	1.750 (44.45)	2.946 (74.83)	2.328 (59.13)	1.020 (25.91)	1.844 (46.84)	.534 (13.56)	.721 (18.31)
		24Z	.765 (19.43)	2.400 (60.96)	2.150 (54.61)	3.210 (81.53)	2.621 (66.57)	1.186 (30.12)	2.125 (53.98)	.589 (14.96)	.839 (21.31)

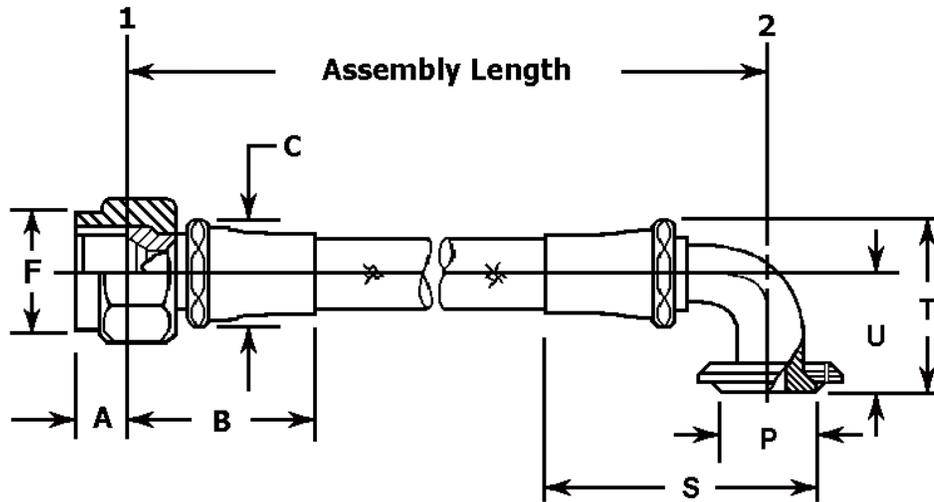
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.
4. Dimension "N (max)" is an installation dimension and not design dimension.

FIGURE 2. Style B hose assembly.

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Style C Hose assembly dimensions. Uses class 1 fittings which are made from CRES: See figure 3.



Fitting ends		Hose size	Dimensions inch (mm)								
1	2		A (nom)	B (max)	C (max)	F (max)	P (max)	S (max)	T (max)	U (min)	U (max)
Straight	90°	8	.438 (11.13)	1.465 (37.21)	0.880 (22.35)	1.014 (25.76)	.875 (22.23)	2.320 (58.93)	1.422 (36.12)	.857 (21.77)	.982 (24.94)
		10	.515 (13.08)	1.680 (42.67)	0.967 (24.56)	1.158 (29.41)	1.000 (25.40)	2.875 (73.03)	1.499 (38.07)	.861 (21.87)	1.015 (28.07)
		12	.570 (14.48)	1.727 (43.87)	1.122 (28.50)	1.447 (36.75)	1.250 (31.75)	3.606 (91.59)	1.807 (45.90)	1.032 (26.21)	1.246 (31.65)
		16Z	.620 (15.75)	2.101 (53.67)	1.480 (37.59)	1.736 (44.09)	1.500 (28.10)	3.981 (101.12)	2.174 (55.22)	1.156 (29.36)	1.434 (36.42)
		20Z	.640 (16.26)	2.255 (57.28)	1.750 (44.45)	2.328 (59.13)	1.844 (46.84)	4.435 (112.65)	2.590 (65.79)	1.344 (34.14)	1.715 (43.56)
		24Z	.765 (19.43)	2.400 (60.96)	2.150 (54.61)	2.621 (66.57)	2.125 (53.98)	5.075 (128.91)	3.103 (78.82)	1.516 (38.51)	2.028 (51.51)

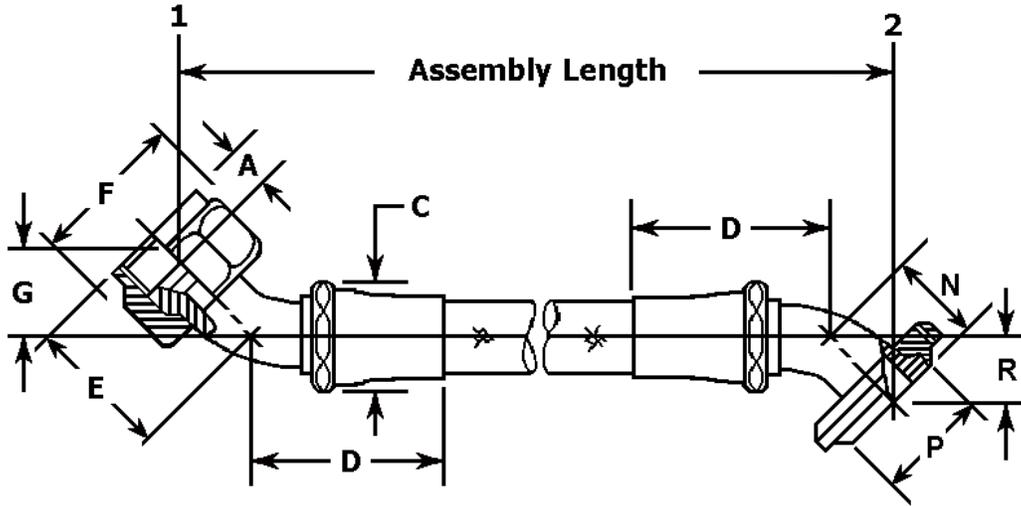
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.
4. Dimension "T (max)" is an installation dimension and a not design dimension.

FIGURE 3. Style C hose assembly.

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Style D Hose assembly dimensions. Uses class 1 fittings which are made from CRES: See figure 4.



Fitting ends		Hose size	Dimensions inch (mm)						
			A (nom)	C (max)	D (max)	E (max)	F (max)	G (min)	G (max)
1	2								
45°	45°	8	.438 (11.13)	.880 (22.35)	1.722 (43.74)	1.332 (33.83)	1.014 (25.76)	.445 (11.30)	.632 (16.05)
		10	.515 (13.08)	.967 (24.56)	2.037 (51.74)	1.488 (37.80)	1.158 (29.41)	.501 (12.73)	.688 (17.48)
		12	.570 (14.48)	1.122 (28.50)	2.368 (60.15)	1.667 (42.34)	1.447 (36.75)	.564 (14.33)	.775 (19.69)
		16Z	.620 (15.75)	1.480 (37.59)	2.583 (65.61)	1.879 (47.73)	1.736 (44.09)	.609 (15.47)	.857 (21.77)
		20Z	.640 (16.26)	1.750 (44.45)	2.946 (74.83)	2.058 (52.27)	2.328 (59.13)	.697 (17.70)	1.017 (25.83)
		24Z	.765 (19.43)	2.150 (54.61)	3.210 (81.53)	2.400 (60.96)	2.621 (66.57)	.785 (19.94)	1.127 (28.63)

See notes at end of figure.

FIGURE 4. Style D hose assembly.

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Fitting ends		Hose size	Dimensions inch (mm)			
			N (max)	P (max)	R (min)	R (max)
1	2					
45°	45°	8	.606 (15.39)	.875 (22.23)	.303 (7.70)	.428 (10.87)
		10	.658 (16.71)	1.000 (25.40)	.340 (8.64)	.465 (11.81)
		12	.789 (20.04)	1.250 (31.75)	.433 (11.00)	.558 (14.17)
		16Z	.929 (23.60)	1.500 (38.10)	.470 (11.94)	.657 (16.54)
		20Z	1.020 (25.91)	1.844 (46.84)	.534 (13.56)	.721 (18.31)
		24Z	1.186 (30.12)	2.125 (53.98)	.589 (14.96)	.839 (21.31)

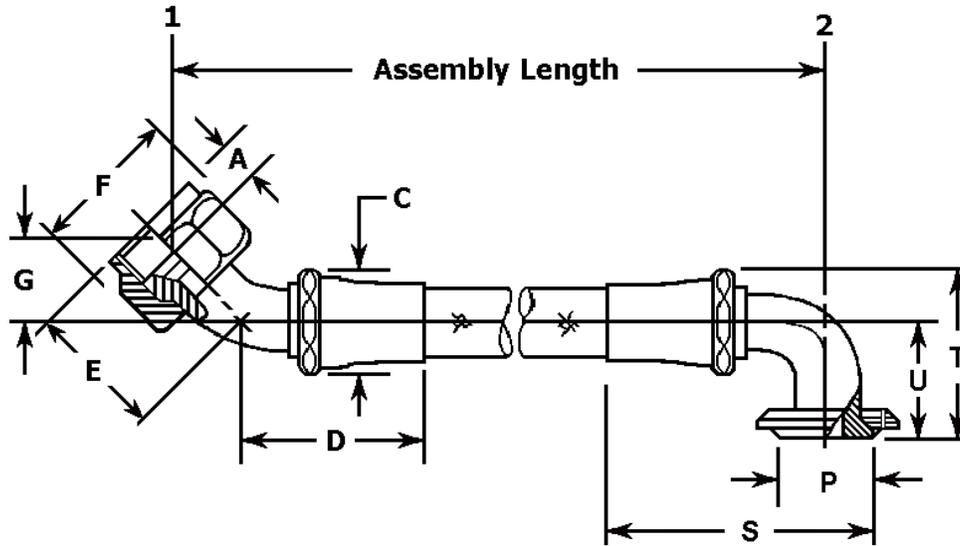
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "E (max)" and "N (max)" are installation dimensions and not design dimensions.
4. Dimension "F" is measured across the corners.

FIGURE 4. Style D hose assembly - Continued.

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Style E Hose assembly dimensions. Uses class 1 fittings which are made from 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°	8	.438 (11.13)	.880 (22.35)	1.722 (43.74)	1.332 (33.83)	1.014 (25.70)	.445 (11.30)	.632 (16.05)
		10	.515 (13.08)	.967 (24.56)	2.037 (51.74)	1.488 (37.80)	1.158 (29.41)	.501 (12.73)	.688 (17.48)
		12	.570 (14.48)	1.122 (28.50)	2.368 (60.15)	1.667 (42.34)	1.447 (36.75)	.564 (14.33)	.775 (19.69)
		16Z	.620 (15.75)	1.480 (37.59)	2.583 (65.61)	1.879 (47.73)	1.736 (44.09)	.609 (15.47)	.857 (21.77)
		20Z	.640 (16.26)	1.750 (44.45)	2.946 (74.83)	2.058 (52.27)	2.328 (59.13)	.697 (17.70)	1.017 (25.83)
		24Z	.765 (19.43)	2.150 (63.75)	3.210 (81.53)	2.400 (60.96)	2.621 (66.57)	.785 (19.94)	1.127 (28.63)

See notes at end of figure.

FIGURE 5. Style E hose assembly.

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Fitting ends		Hose size	Dimensions inch (mm)				
			P (max)	S (max)	T (max)	U (min)	U (max)
1	2						
45°	90°	8	.875 (22.23)	2.320 (58.93)	1.422 (36.12)	.857 (21.77)	.982 (24.94)
		10	1.000 (25.40)	2.875 (73.03)	1.499 (38.07)	.861 (21.97)	1.015 (25.78)
		12	1.250 (31.75)	3.606 (91.59)	1.807 (45.90)	1.032 (26.21)	1.246 (31.65)
		16Z	1.500 (38.10)	3.981 (101.12)	2.174 (55.22)	1.156 (29.36)	1.434 (36.42)
		20Z	1.844 (46.84)	4.435 (112.65)	2.590 (65.79)	1.344 (34.14)	1.715 (43.56)
		24Z	2.125 (53.98)	5.075 (128.91)	3.103 (78.82)	1.516 (38.51)	2.028 (51.51)

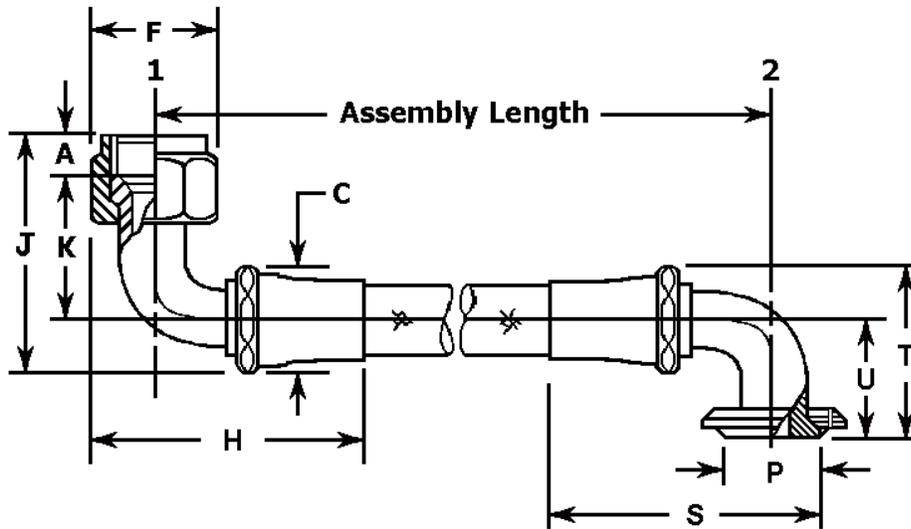
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "E (max)" and "T (max)" are installation dimensions and not design dimensions.
4. Dimension "F" is measured across the corners.

FIGURE 5. Style E hose assembly - Continued

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Style F Hose assembly dimensions. Uses class 1 fittings which are made from CRES: See figure 6.



Fitting ends		Hose size	Dimensions inch (mm)						
			A (nom)	C (max)	F (max)	H (max)	J (max)	K (min)	K (max)
1	2								
90°	90°	8	.438 (11.13)	.880 (22.35)	1.014 (28.04)	2.495 (63.37)	1.938 (49.23)	.810 (20.57)	1.092 (27.74)
		10	.515 (13.08)	.967 (24.56)	1.158 (29.41)	2.955 (75.06)	2.340 (61.72)	1.056 (26.82)	1.341 (34.06)
		12	.570 (14.48)	1.122 (28.50)	1.447 (36.75)	3.705 (94.11)	2.722 (69.14)	1.341 (34.06)	1.591 (40.41)
		16Z	.620 (15.75)	1.480 (37.59)	1.736 (44.09)	4.100 (104.14)	3.075 (78.11)	1.465 (37.21)	1.840 (46.74)
		20Z	.640 (16.26)	1.750 (44.45)	2.328 (59.13)	4.835 (122.81)	3.637 (92.38)	1.747 (44.37)	2.233 (56.72)
		24Z	.765 (19.43)	2.150 (54.61)	2.621 (66.57)	5.480 (139.19)	4.212 (106.98)	1.997 (50.72)	2.372 (60.25)

See notes at end of figure.

FIGURE 6. Style F hose assembly.

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Fitting ends		Hose size	Dimensions inch (mm)				
			P (max)	S (max)	T (max)	U (min)	U (max)
1	2						
90°	90°	8	.875 (22.23)	2.320 (58.93)	1.422 (36.12)	.857 (21.77)	.982 (24.94)
		10	1.000 (25.40)	2.875 (73.03)	1.499 (38.07)	.861 (21.87)	1.015 (25.78)
		12	1.250 (31.75)	3.606 (91.59)	1.807 (45.90)	1.032 (26.21)	1.246 (31.65)
		16Z	1.500 (38.10)	3.981 (101.12)	2.174 (55.22)	1.156 (29.36)	1.434 (36.42)
		20Z	1.844 (46.84)	4.435 (112.65)	2.590 (65.79)	1.344 (34.14)	1.715 (43.56)
		24Z	2.125 (53.98)	5.075 (128.91)	3.103 (78.82)	1.516 (29.36)	2.028 (51.51)

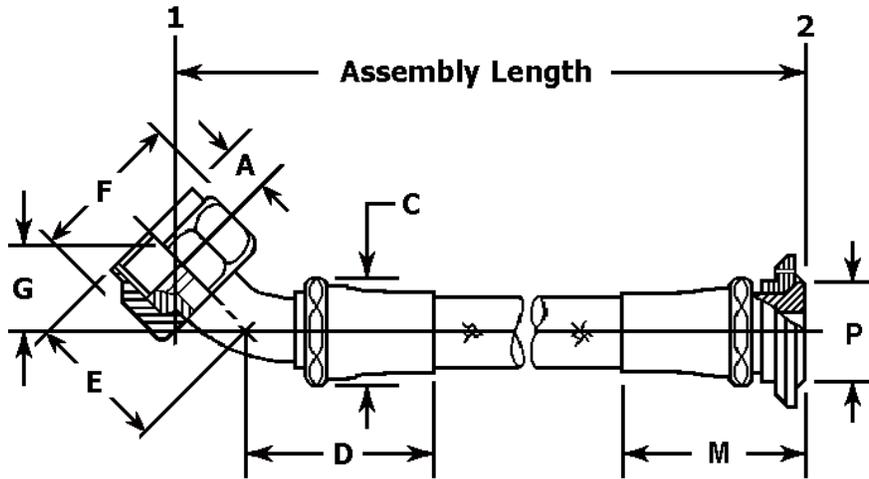
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.
4. Dimensions "J (max)" and "T (max)" are installation dimensions and not design dimensions.

FIGURE 6. Style F hose assembly - Continued.

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Style G Hose assembly dimensions. Uses class 1 fittings which are made from CRES: See figure 7.



Fitting ends		Hose size	Dimensions inch (mm)								
1	2		A (nom)	C (max)	D (max)	E (max)	F (max)	G (min)	G (max)	M (max)	P (max)
45°	Straight	8	.438 (11.13)	.880 (22.35)	1.722 (45.01)	1.332 (33.83)	1.014 (25.76)	0.445 (11.30)	0.632 (16.05)	1.560 (39.62)	.875 (22.23)
		10	.515 (13.08)	.967 (24.56)	2.037 (51.74)	1.488 (36.78)	1.158 (29.41)	0.501 (12.73)	0.688 (17.48)	1.570 (39.88)	1.000 (25.40)
		12	.570 (14.48)	1.122 (28.50)	2.368 (60.15)	1.667 (42.34)	1.447 (36.75)	0.564 (14.33)	0.775 (19.69)	1.640 (41.66)	1.250 (31.75)
		16Z	.620 (15.75)	1.480 (37.59)	2.583 (65.61)	1.879 (47.73)	1.736 (44.09)	0.609 (15.47)	0.857 (21.77)	1.750 (44.45)	1.500 (38.10)
		20Z	.640 (16.26)	1.750 (44.45)	2.946 (74.83)	2.058 (52.27)	2.328 (59.13)	0.697 (17.70)	1.017 (25.83)	1.990 (50.55)	1.844 (46.84)
		24Z	.765 (19.43)	2.150 (54.61)	3.210 (81.53)	2.400 (60.96)	2.621 (66.57)	0.785 (19.94)	1.127 (28.63)	2.260 (57.40)	2.125 (53.98)

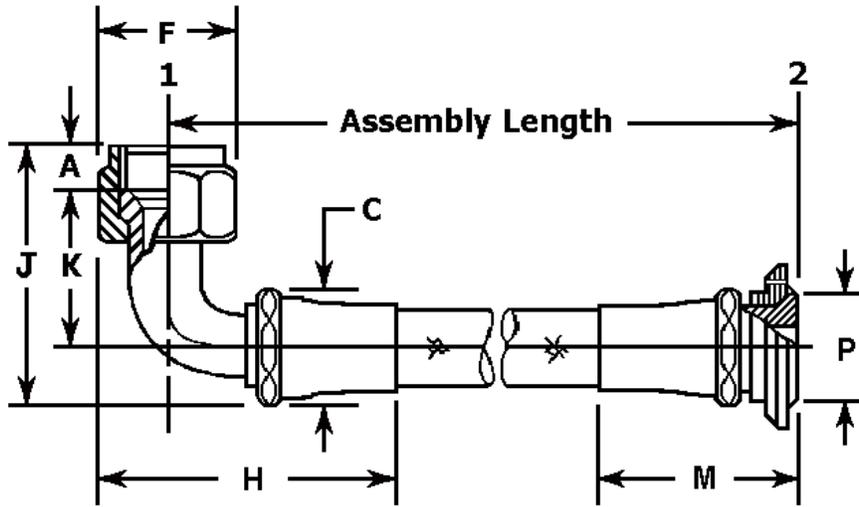
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "E (max)" is an installation dimension and not design dimension.
4. Dimension "F" is measured across the corners.

FIGURE 7. Style G hose assembly.

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Style H Hose assembly dimensions. Uses class 1 fittings which are made from CRES: See figure 8.



Fitting ends		Hose size	Dimensions inch (mm)								
1	2		A (nom)	C (max)	F (max)	H (max)	J (max)	K (min)	K (max)	M (max)	P (max)
90°	Straight	8	.438 (11.13)	.880 (22.35)	1.014 (25.76)	2.495 (63.37)	1.938 (49.23)	.810 (20.57)	1.092 (27.74)	1.560 (39.62)	.875 (22.23)
		10	.515 (13.08)	.967 (24.56)	1.158 (29.41)	2.995 (76.07)	2.340 (59.44)	1.056 (26.82)	1.341 (34.06)	1.570 (39.88)	1.000 (25.40)
		12	.570 (14.48)	1.122 (28.50)	1.447 (36.75)	3.705 (94.11)	2.722 (69.14)	1.341 (34.06)	1.591 (40.41)	1.640 (41.66)	1.250 (31.75)
		16Z	.620 (15.75)	1.480 (37.59)	1.736 (44.09)	4.100 (104.14)	3.075 (78.11)	1.465 (37.21)	1.840 (46.74)	1.750 (44.45)	1.500 (38.10)
		20Z	.640 (16.26)	1.750 (44.45)	2.328 (59.13)	4.835 (122.81)	3.637 (92.38)	1.747 (44.37)	2.233 (56.72)	1.990 (50.55)	1.844 (46.84)
		24Z	.765 (19.43)	2.150 (54.61)	2.621 (66.57)	5.480 (139.19)	4.212 (106.98)	1.997 (50.72)	2.372 (60.25)	2.260 (57.40)	2.125 (53.98)

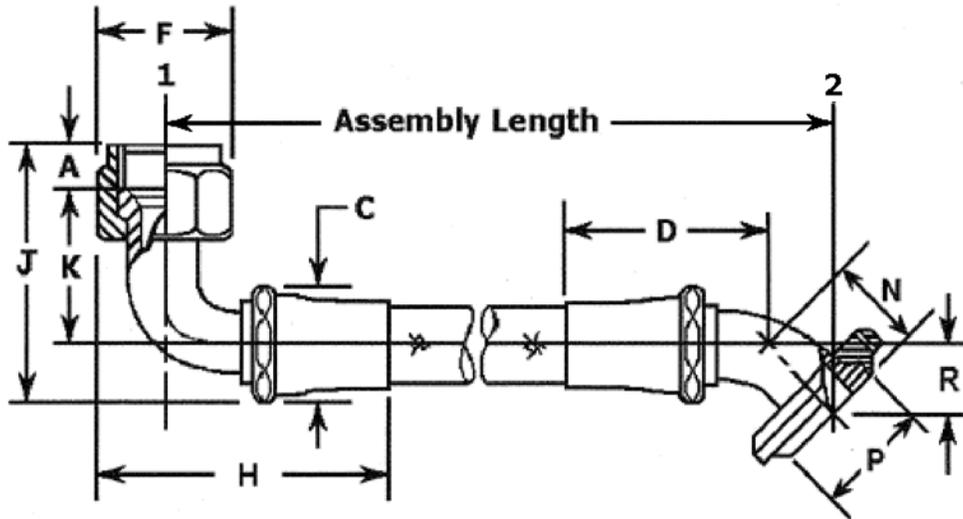
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.
4. Dimension "J (max)" is an installation dimension and not design dimension.

FIGURE 8. Style H hose assembly.

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Style J Hose assembly dimensions. Uses class 1 fittings which are made from CRES: See figure 9.



Fitting ends		Hose size	Dimensions inch (mm)							
			A (nom)	C (max)	D (max)	F (max)	H (max)	J (max)	K (min)	K (max)
1	2									
90°	45°	8	.438 (11.13)	.880 (22.35)	1.722 (43.74)	1.014 (25.76)	2.495 (63.37)	1.938 (49.23)	.810 (20.57)	1.092 (27.74)
		10	.515 (13.08)	.967 (24.56)	2.037 (51.74)	1.158 (29.41)	2.995 (76.07)	2.340 (59.44)	1.056 (26.82)	1.341 (34.06)
		12	.570 (14.48)	1.122 (28.50)	2.368 (60.15)	1.447 (36.75)	3.705 (94.11)	2.722 (69.14)	1.341 (34.06)	1.591 (40.41)
		16Z	.620 (15.75)	1.480 (37.59)	2.583 (65.61)	1.736 (44.09)	4.100 (104.14)	3.075 (78.11)	1.465 (37.21)	1.840 (46.74)
		20Z	.640 (16.26)	1.750 (44.45)	2.946 (74.83)	2.328 (59.13)	4.835 (122.81)	3.637 (92.38)	1.747 (44.37)	2.233 (56.72)
		24Z	.765 (19.43)	2.150 (54.61)	3.210 (81.53)	2.621 (66.57)	5.480 (139.19)	4.212 (106.98)	1.997 (50.72)	2.372 (60.25)

See notes at end of figure.

FIGURE 9. Style J hose assembly.

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Fitting ends		Hose size	Dimensions inch (mm)			
			N (max)	P (max)	R (min)	R (max)
1	2					
90°	45°	8	.606 (15.39)	.875 (22.23)	.303 (7.70)	.428 (10.87)
		10	.658 (16.71)	1.000 (25.40)	.340 (8.64)	.465 (11.81)
		12	.789 (20.04)	1.250 (31.75)	.433 (11.00)	.558 (14.17)
		16Z	.929 (23.60)	1.500 (38.10)	.470 (11.94)	.657 (16.69)
		20Z	1.020 (25.91)	1.844 (46.84)	.534 (13.56)	.721 (18.31)
		24Z	1.186 (30.12)	2.125 (53.98)	.589 (14.96)	.839 (21.31)

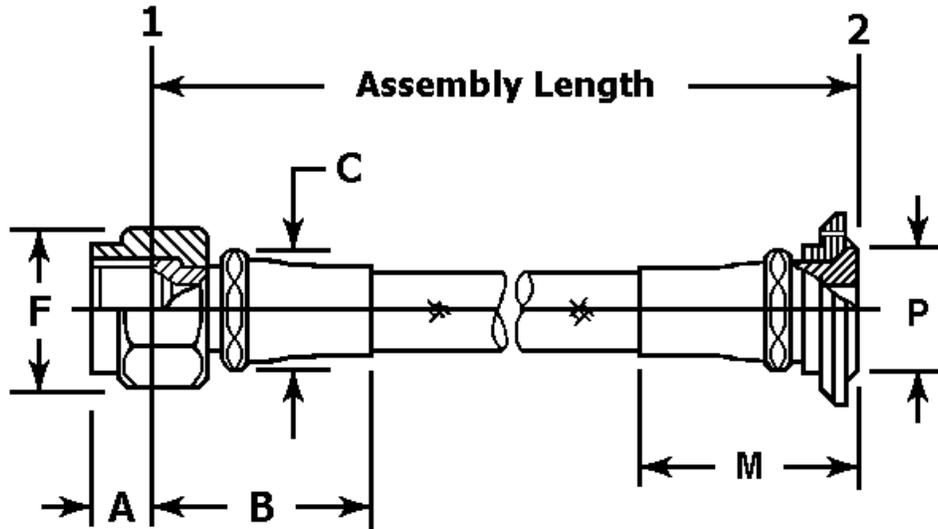
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.
4. Dimensions "J (max)" and "N (max)" are installation dimensions and not design dimensions.

FIGURE 9. Style J hose assembly - Continued.

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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)	B (max)	C (max)	F (max)	M (max)	P (max)
Straight	Straight	8	.438 (11.13)	1.465 (37.21)	.880 (22.35)	1.014 (25.76)	1.560 (39.62)	.875 (22.23)
		10	.515 (13.08)	1.680 (42.67)	.967 (24.56)	1.158 (29.41)	1.570 (39.88)	1.000 (25.40)
		12	.570 (14.48)	1.727 (43.87)	1.122 (28.50)	1.447 (36.75)	1.640 (41.66)	1.250 (31.75)
		16Z	.620 (15.75)	2.101 (53.37)	1.480 (37.59)	1.736 (44.09)	1.750 (44.45)	1.500 (38.10)
		20Z	.640 (16.26)	2.255 (57.28)	1.750 (44.45)	2.328 (59.13)	1.990 (50.55)	1.844 (46.84)
		24Z	.765 (19.43)	2.400 (60.96)	2.150 (54.61)	2.621 (66.57)	2.260 (57.40)	2.125 (53.98)

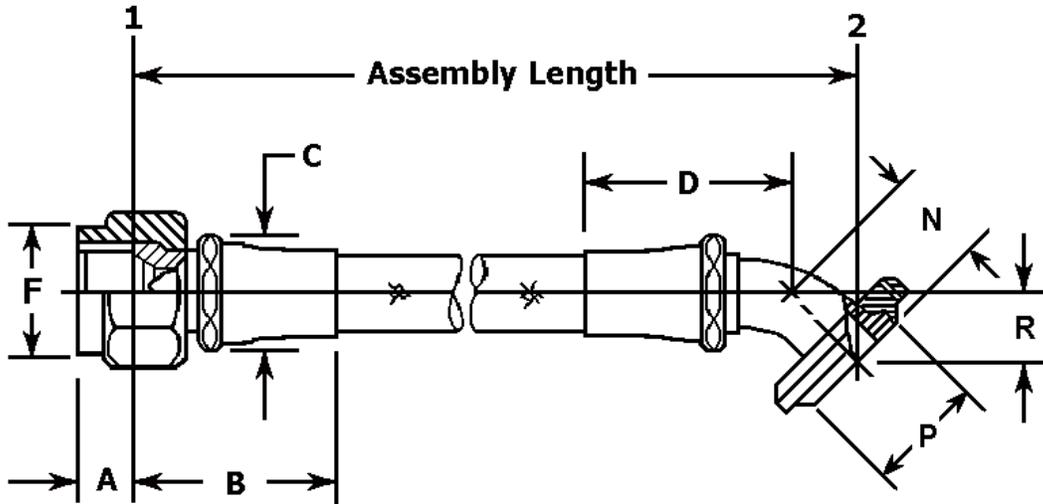
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.

FIGURE 10. Style K hose assembly.

MS8007D

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)								
1	2		A (nom)	B (max)	C (max)	D (max)	F (max)	N (max)	P (max)	R (min)	R (max)
Straight	45°	8	.438 (11.13)	1.465 (37.21)	0.880 (22.35)	1.722 (43.74)	1.014 (25.76)	0.606 (15.39)	.875 (22.23)	.303 (7.70)	.428 (10.87)
		10	.515 (13.08)	1.680 (42.67)	0.967 (27.56)	2.037 (51.74)	1.158 (29.41)	0.658 (16.71)	1.000 (25.40)	.340 (8.64)	.465 (11.81)
		12	.570 (14.48)	1.727 (43.87)	1.122 (28.50)	2.368 (60.15)	1.447 (29.13)	0.789 (20.04)	1.250 (31.75)	.433 (11.00)	.558 (14.17)
		16Z	.620 (15.75)	2.101 (53.37)	1.480 (37.59)	2.583 (65.61)	1.736 (44.09)	0.929 (23.60)	1.500 (38.10)	.470 (11.94)	.657 (16.69)
		20Z	.640 (16.26)	2.255 (57.28)	1.750 (44.45)	2.946 (74.83)	2.328 (59.13)	1.020 (25.91)	1.844 (46.84)	.534 (13.56)	.721 (18.31)
		24Z	.765 (19.43)	2.400 (60.96)	2.150 (54.61)	3.210 (81.53)	2.621 (66.57)	1.186 (30.12)	2.125 (53.98)	.589 (14.96)	.839 (21.31)

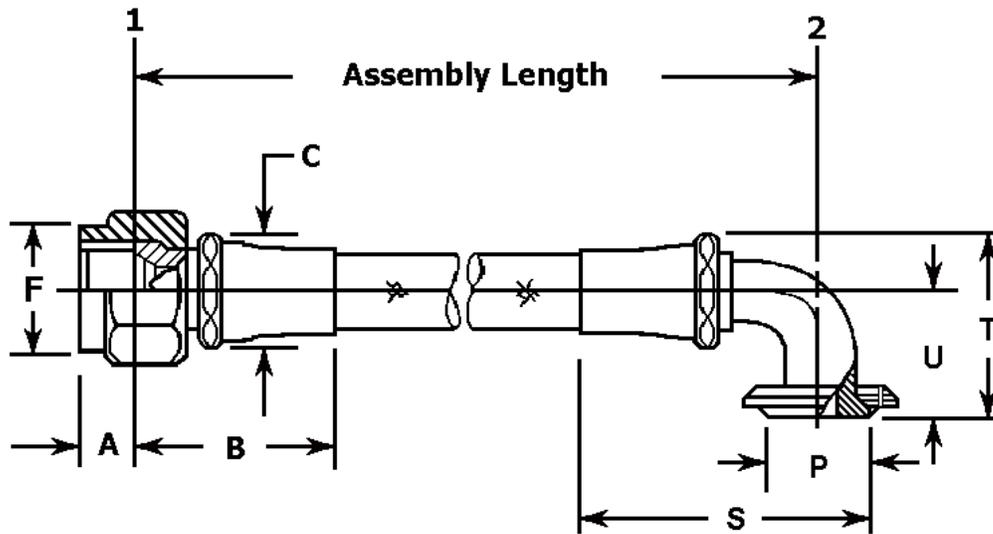
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.
4. Dimension "N (max)" is an installation dimension and not design dimension.

FIGURE 11. Style M hose assembly.

MS8007D

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 inch (mm)								
1	2		A (nom)	B (max)	C (max)	F (max)	P (max)	S (max)	T (max)	U (min)	U (max)
Straight	90°	8	.438 (11.13)	1.465 (37.21)	.880 (22.35)	1.014 (25.76)	0.875 (22.23)	2.320 (58.93)	1.422 (36.12)	.857 (21.77)	.982 (24.94)
		10	.515 (13.08)	1.680 (42.67)	.967 (24.56)	1.158 (29.41)	1.000 (25.40)	2.875 (73.03)	1.499 (38.07)	.861 (21.87)	1.015 (25.78)
		12	.570 (14.48)	1.727 (43.87)	1.122 (28.50)	1.447 (36.75)	1.250 (31.75)	3.606 (91.59)	1.807 (45.90)	1.032 (26.21)	1.246 (31.65)
		16Z	.620 (15.75)	2.101 (53.37)	1.480 (37.59)	1.736 (44.09)	1.500 (38.10)	3.981 (101.12)	2.174 (55.22)	1.156 (29.36)	1.434 (36.42)
		20Z	.640 (16.26)	2.255 (57.28)	1.750 (44.45)	2.328 (59.13)	1.844 (46.84)	4.435 (112.65)	2.590 (65.79)	1.344 (34.14)	1.715 (43.56)
		24Z	.765 (19.43)	2.400 (60.96)	2.150 (54.61)	2.621 (66.57)	2.125 (53.98)	5.075 (128.91)	3.103 (78.82)	1.516 (38.51)	2.028 (51.51)

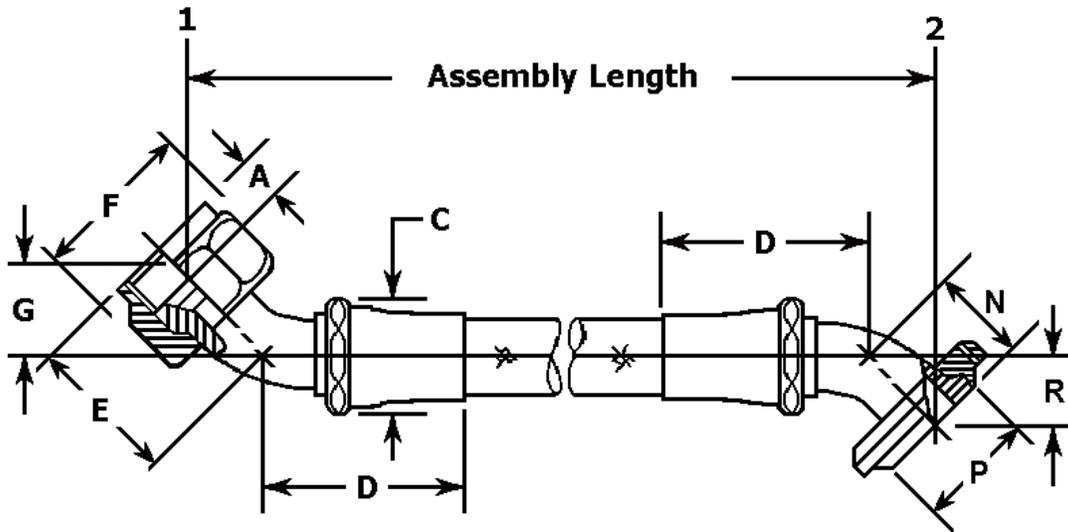
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.
4. Dimension "T (max)" is an installation dimension and not design dimension.

FIGURE 12. Style N hose assembly.

MS8007D

Style P hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 13.



Fitting ends		Hose size	Dimensions inch (mm)						
			A (nom)	C (max)	D (max)	E (max)	F (max)	G (min)	G (max)
45°	45°	8	.438 (11.13)	.880 (22.35)	1.722 (43.74)	1.332 (33.83)	1.014 (25.76)	.445 (11.30)	.632 (16.05)
		10	.515 (13.08)	.967 (24.56)	2.037 (51.74)	1.488 (37.80)	1.158 (29.41)	.501 (12.73)	.688 (17.48)
		12	.570 (14.48)	1.122 (28.50)	2.368 (60.15)	1.667 (42.34)	1.447 (36.75)	.564 (14.33)	.775 (19.69)
		16Z	.620 (15.75)	1.480 (37.59)	2.583 (65.61)	1.879 (47.73)	1.736 (44.09)	.609 (15.47)	.857 (21.77)
		20Z	.640 (16.26)	1.750 (44.45)	2.946 (74.83)	2.058 (52.27)	2.328 (59.13)	.697 (17.70)	1.017 (25.83)
		24Z	.765 (19.43)	2.150 (54.61)	3.210 (81.53)	2.400 (60.96)	2.621 (66.57)	.785 (19.94)	1.127 (28.63)

See notes at end of figure.

FIGURE 13. Style P hose assembly.

MS8007D

Fitting ends		Hose size	Dimensions inch (mm)			
			N (max)	P (max)	R (min)	R (max)
1	2					
45°	45°	8	.606 (15.39)	0.875 (22.23)	.303 (7.70)	.428 (10.87)
		10	.658 (16.71)	1.000 (25.40)	.340 (8.64)	.465 (11.81)
		12	.789 (20.04)	1.250 (31.75)	.433 (11.00)	.558 (14.17)
		16Z	.929 (23.60)	1.500 (38.10)	.470 (11.94)	.657 (16.69)
		20Z	1.020 (25.91)	1.844 (46.84)	.534 (13.56)	.721 (18.31)
		24Z	1.186 (30.12)	2.125 (53.98)	.589 (14.96)	.839 (21.31)

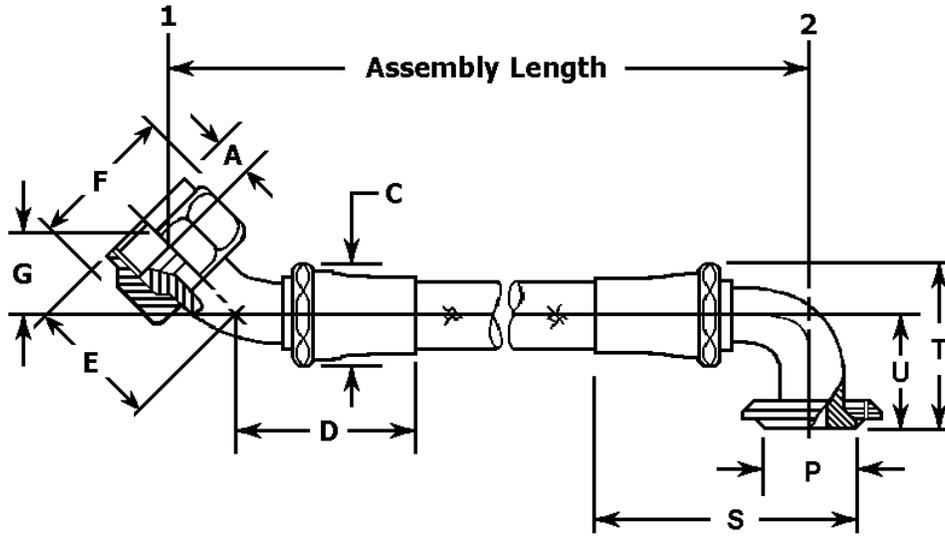
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "E (max)" and "N (max)" are installation dimensions and not design dimensions.
4. Dimension "F" is measured across the corners.

FIGURE 13. Style P hose assembly - Continued.

MS8007D

Style R hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 14.



Fitting ends		Hose size	Dimensions inch (mm)						
			A (nom)	C (max)	D (max)	E (max)	F (max)	G (min)	G (max)
45°	90°	8	.438 (11.13)	.880 (22.35)	1.722 (43.74)	1.332 (33.93)	1.014 (25.76)	.445 (11.30)	.632 (16.05)
		10	.515 (13.08)	.967 (24.56)	2.037 (51.74)	1.488 (37.80)	1.158 (29.41)	.501 (12.73)	.688 (17.48)
		12	.570 (14.48)	1.122 (28.50)	2.368 (60.15)	1.667 (42.34)	1.447 (36.75)	.564 (14.33)	.775 (19.69)
		16Z	.620 (15.75)	1.480 (37.59)	2.583 (65.61)	1.879 (47.73)	1.736 (44.09)	.609 (15.47)	.857 (21.77)
		20Z	.640 (16.26)	1.750 (44.45)	2.946 (74.83)	2.058 (52.27)	2.328 (59.13)	.697 (17.70)	1.017 (25.83)
		24Z	.765 (19.43)	2.150 (54.61)	3.210 (81.53)	2.400 (60.96)	2.621 (66.57)	.785 (19.94)	1.127 (28.63)

See notes at end of figure.

FIGURE 14. Style R hose assembly.

MS8007D

Fitting ends		Hose size	Dimensions inch (mm)				
			P (max)	S (max)	T (max)	U (min)	U (max)
1	2						
45°	90°	8	.875 (22.23)	2.320 (58.93)	1.422 (36.12)	.857 (21.77)	.982 (24.94)
		10	1.000 (25.40)	2.875 (73.03)	1.499 (38.07)	.861 (21.87)	1.015 (25.78)
		12	1.250 (31.75)	3.606 (91.59)	1.807 (45.90)	1.032 (26.21)	1.246 (31.65)
		16Z	1.500 (38.10)	3.981 (101.12)	2.174 (55.22)	1.156 (29.36)	1.434 (36.42)
		20Z	1.844 (46.84)	4.435 (112.65)	2.590 (65.79)	1.344 (34.14)	1.715 (43.56)
		24Z	2.125 (53.98)	5.075 (128.91)	3.103 (78.82)	1.516 (38.51)	2.028 (51.51)

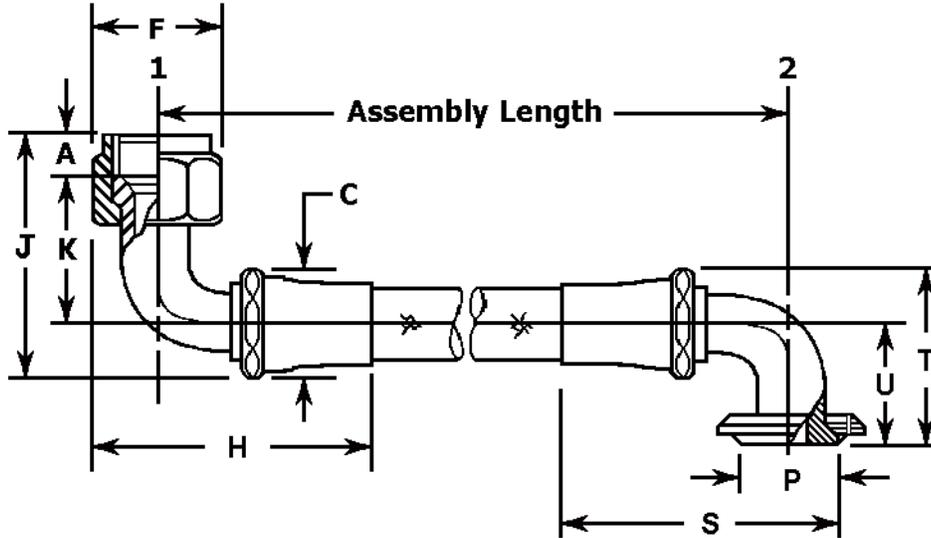
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions "E (max)" and "T (max)" are installation dimensions and not design dimensions.
4. Dimension "F" is measured across the corners.

FIGURE 14. Style R hose assembly - Continued.

MS8007D

Style S hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 15.



Fitting ends		Hose size	Dimensions inch (mm)						
			A (nom)	C (max)	F (max)	H (max)	J (max)	K (min)	K (max)
1	2								
90°	90°	8	.438 (11.13)	.880 (22.35)	1.014 (25.76)	2.495 (63.37)	1.938 (49.23)	.810 (20.57)	1.092 (27.74)
		10	.515 (13.08)	.967 (24.56)	1.158 (29.41)	2.955 (75.06)	2.340 (59.44)	1.056 (26.82)	1.341 (34.03)
		12	.570 (14.48)	1.122 (28.50)	1.447 (36.75)	3.705 (94.11)	2.722 (70.82)	1.341 (34.06)	1.591 (40.41)
		16Z	.620 (15.75)	1.480 (37.59)	1.736 (44.09)	4.100 (104.14)	3.075 (78.11)	1.465 (37.21)	1.840 (46.74)
		20Z	.640 (16.26)	1.750 (44.45)	2.328 (59.13)	4.835 (122.81)	3.637 (92.38)	1.747 (44.37)	2.233 (56.72)
		24Z	.765 (19.43)	2.150 (54.61)	2.621 (66.57)	5.480 (139.19)	4.212 (106.99)	1.997 (50.72)	2.372 (60.25)

See notes at end of figure.

FIGURE 15. Style S hose assembly.

MS8007D

Fitting ends		Hose size	Dimensions inch (mm)				
			P (max)	S (max)	T (max)	U (min)	U (max)
1	2						
90°	90°	8	.875 (22.23)	2.320 (58.93)	1.422 (36.12)	.857 (21.77)	.982 (24.94)
		10	1.000 (25.40)	2.875 (73.03)	1.499 (38.07)	.861 (21.87)	1.015 (25.78)
		12	1.250 (31.75)	3.606 (91.59)	1.807 (45.90)	1.032 (26.21)	1.246 (31.65)
		16Z	1.500 (38.10)	3.981 (101.12)	2.174 (55.22)	1.156 (29.36)	1.434 (36.42)
		20Z	1.844 (46.84)	4.435 (112.65)	2.590 (65.79)	1.344 (34.14)	1.715 (43.56)
		24Z	2.125 (53.98)	5.075 (128.91)	3.103 (78.82)	1.516 (38.51)	2.028 (51.51)

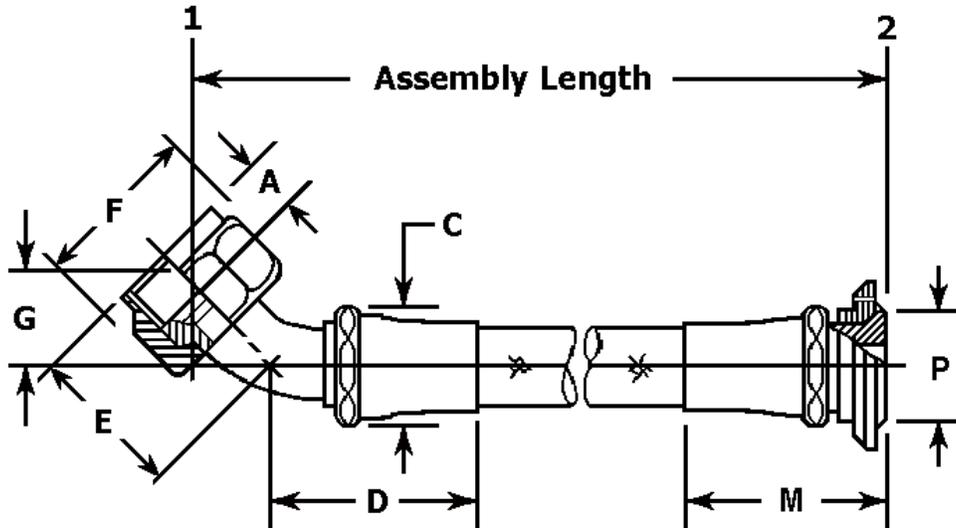
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.
4. Dimensions "J (max)" and "T (max)" are installation dimensions and not design dimensions.

FIGURE 15. Style S hose assembly - Continued.

MS8007D

Style T hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 16.



Fitting ends		Hose size	Dimensions inch (mm)				
1	2		A (nom)	C (max)	D (max)	E (max)	F (max)
45°	Straight	8	.438 (11.13)	.880 (22.35)	1.722 (43.74)	1.332 (33.83)	1.014 (25.76)
		10	.515 (13.08)	.967 (24.56)	2.037 (51.74)	1.488 (37.80)	1.158 (29.41)
		12	.570 (14.48)	1.122 (28.50)	2.368 (60.15)	1.667 (42.34)	1.447 (36.75)
		16Z	.620 (15.75)	1.480 (37.59)	2.583 (64.47)	1.879 (47.73)	1.736 (44.09)
		20Z	.640 (16.26)	1.750 (44.45)	2.946 (74.83)	2.058 (52.27)	2.328 (59.13)
		24Z	.765 (19.43)	2.150 (54.61)	3.210 (81.53)	2.400 (60.96)	2.621 (66.57)

See notes at end of figure.

FIGURE 16. Style T hose assembly.

MS8007D

Fitting ends		Hose size	Dimensions inch (mm)			
1	2		G (min)	G (max)	M (max)	P (max)
45°	Straight	8	.445 (11.30)	.632 (16.05)	1.560 (39.62)	.875 (22.23)
		10	.501 (12.73)	0.688 (17.48)	1.570 (39.88)	1.000 (25.40)
		12	.564 (14.33)	.775 (19.69)	1.640 (41.66)	1.250 (28.58)
		16Z	.609 (15.47)	.857 (21.77)	1.750 (44.45)	1.500 (38.10)
		20Z	.697 (17.70)	1.017 (25.83)	1.990 (50.55)	1.844 (46.84)
		24Z	.785 (19.94)	1.127 (28.63)	2.260 (57.40)	2.125 (53.98)

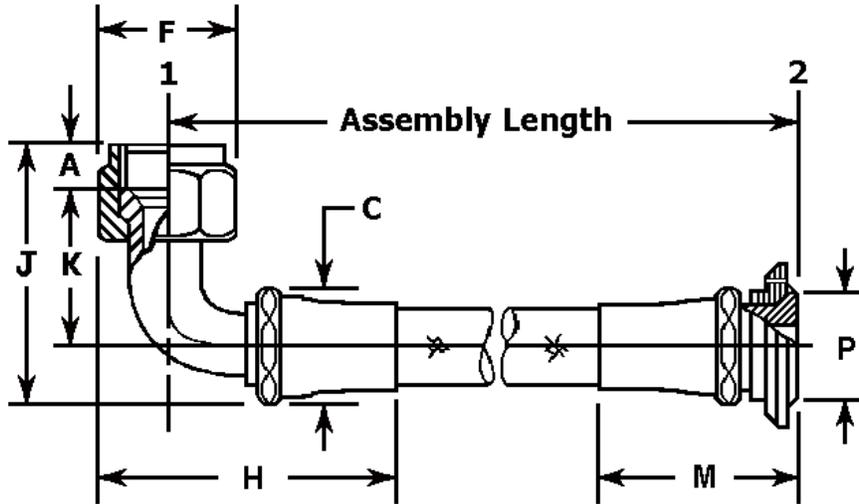
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.
4. Dimension "E (max)", "is an installation dimension and not a design dimension.

FIGURE 16. Style T hose assembly - Continued.

MS8007D

Style U hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 17.



Fitting ends		Hose size	Dimensions inch (mm)				
1	2		A nom)	C (max)	F (max)	H (max)	J (max)
90°	Straight	8	.438 (11.13)	.880 (22.35)	1.014 (25.76)	2.495 (63.12)	1.938 (49.23)
		10	.515 (13.08)	.967 (24.56)	1.158 (29.41)	2.955 (75.06)	2.340 (59.44)
		12	.570 (14.48)	1.122 (28.50)	1.447 (36.75)	3.705 (94.11)	2.722 (69.14)
		16Z	.620 (15.75)	1.480 (37.59)	1.736 (44.09)	4.100 (104.14)	3.075 (78.11)
		20Z	.640 (16.26)	1.750 (44.45)	2.328 (59.13)	4.835 (122.81)	3.637 (92.38)
		24Z	.765 (19.43)	2.150 (54.61)	2.621 (66.57)	5.480 (139.19)	4.212 (106.98)

See notes at end of figure.

FIGURE 17. Style U hose assembly.

MS8007D

Fitting ends		Hose size	Dimensions inch (mm)			
1	2		K (min)	K (max)	M (max)	P (max)
90°	Straight	8	.810 (20.57)	1.092 (27.74)	1.560 (39.62)	.875 (22.23)
		10	1.056 (26.82)	1.341 (34.06)	1.570 (39.88)	1.000 (25.40)
		12	1.341 (34.06)	1.591 (40.41)	1.640 (41.66)	1.250 (28.58)
		16Z	1.465 (37.21)	1.840 (46.74)	1.750 (44.45)	1.500 (38.10)
		20Z	1.747 (44.37)	2.233 (56.72)	1.990 (50.55)	1.844 (46.84)
		24Z	1.997 (50.72)	2.372 (60.25)	2.260 (57.40)	2.125 (53.98)

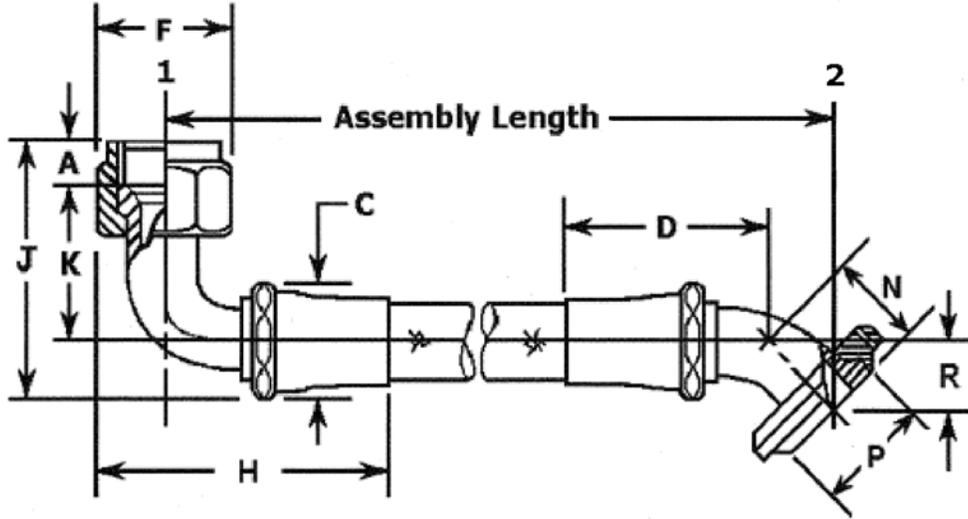
NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.
4. Dimension "J (max)" is an installation dimension and not a design dimension.

FIGURE 17. Style U hose assembly - Continued.

MS8007D

Style V hose assembly dimensions. Uses class 2 fittings which are made from a combination of aluminum and CRES: See figure 18.



Fitting ends		Hose size	Dimensions inch (mm)					
			A (nom)	C (max)	D (max)	F (max)	H (max)	J (max)
1	2							
90°	45°	8	.438 (11.13)	.880 (22.35)	1.722 (43.74)	1.014 (25.76)	2.495 (63.37)	1.938 (49.23)
		10	.515 (13.08)	.967 (24.56)	2.037 (51.74)	1.158 (29.41)	2.955 (75.06)	2.340 (59.44)
		12	.570 (14.48)	1.122 (28.50)	2.368 (60.15)	1.447 (36.75)	3.705 (94.11)	2.722 (69.14)
		16Z	.620 (15.75)	1.480 (37.59)	2.583 (65.61)	1.736 (44.09)	4.100 (104.14)	3.075 (78.11)
		20Z	.640 (16.26)	1.750 (44.45)	2.946 (74.83)	2.328 (59.13)	4.835 (122.81)	3.637 (92.38)
		24Z	.765 (19.43)	2.150 (54.61)	3.210 (81.53)	2.621 (66.57)	5.480 (139.19)	4.212 (106.98)

See notes at end of figure.

FIGURE 18. Style V hose assembly.

MS8007D

Fitting ends		Hose size	Dimensions inch (mm)						
			K (min)	K (max)	N (max)	P (max)	R (min)	R (max)	
1	2								
90°	45°	8	.810 (50.57)	1.092 (27.74)	.606 (15.39)	.875 (22.23)	.303 (7.70)	.428 (10.87)	
		10	1.056 (26.82)	1.341 (34.06)	.658 (16.71)	1.000 (25.40)	.340 (8.64)	.465 (11.81)	
		12	1.341 (34.06)	1.591 (40.41)	.789 (50.04)	1.250 (28.58)	.433 (11.00)	.558 (14.17)	
		16Z	1.465 (27.21)	1.840 (46.74)	.929 (23.60)	1.500 (38.10)	.470 (11.94)	.657 (16.69)	
		20Z	1.747 (44.37)	2.233 (56.72)	1.020 (25.91)	1.844 (46.84)	.534 (13.56)	.721 (18.31)	
		24Z	1.997 (50.72)	2.372 (60.25)	1.186 (30.12)	2.125 (53.98)	.589 (14.96)	.839 (21.31)	

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimension "F" is measured across the corners.
4. Dimensions "J (max)" and "N (max)" are installation dimensions and not design dimensions.

FIGURE 18. Style V hose assembly - Continued.

MS8007D

REQUIREMENTS:

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

Fittings: The swivel nut and cone seat shall mate with SAE-AS4395 fitting. The swivel nut threads shall be in accordance with SAE-AS8879. The swivel flange shall conform to MS20756.

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

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 I, through the assembly. The ball shall pass freely through the assembly.

TABLE I. Assembly passage. 1/ 2/

Assembly Size	8	10	12	16Z	20Z	24Z
Ball diameter Straight fittings	.306 (7.77)	.387 (9.83)	.493 (12.52)	.700 (17.78)	.900 (22.86)	1.125 (28.58)
Ball diameter at least one elbow	.289 (7.34)	.366 (9.30)	.466 (11.84)	.661 (16.79)	.850 (21.59)	1.063 (27.00)

1/ Dimensions are in inches.

2/ Metric equivalentents are given for information only.

Hose assembly size code: See table II.

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

Size code	Size	Reference tube OD
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 equivalentents are given for information only.

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 III) 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 19.

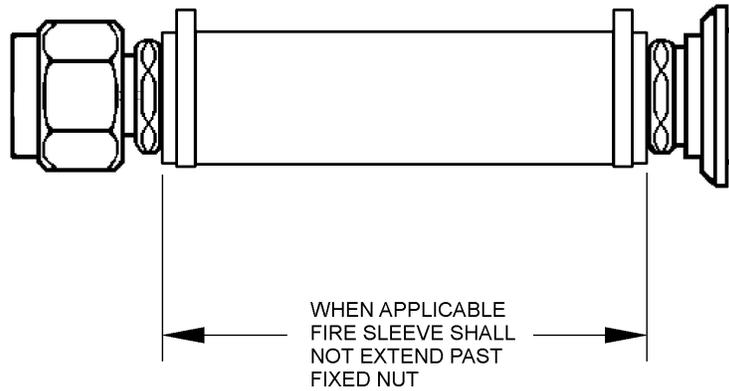


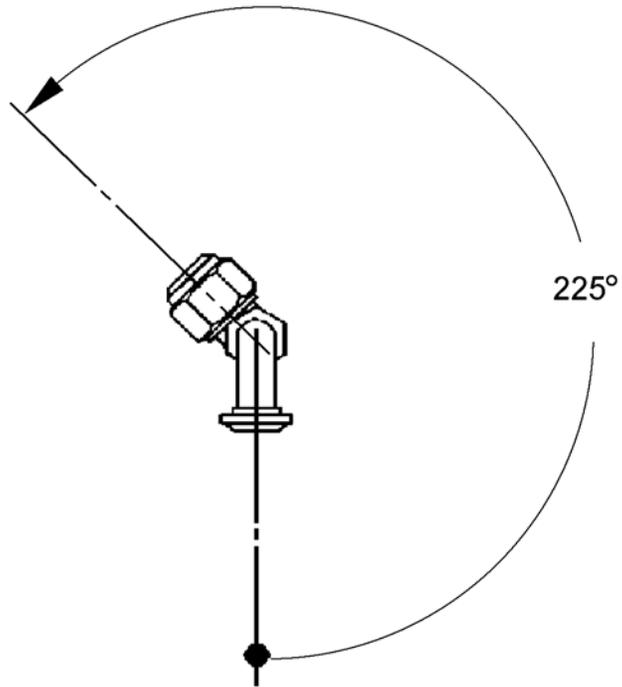
FIGURE 19. Fire protection sleeve attachment.

TABLE III. 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 ends 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 fiberglass.

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

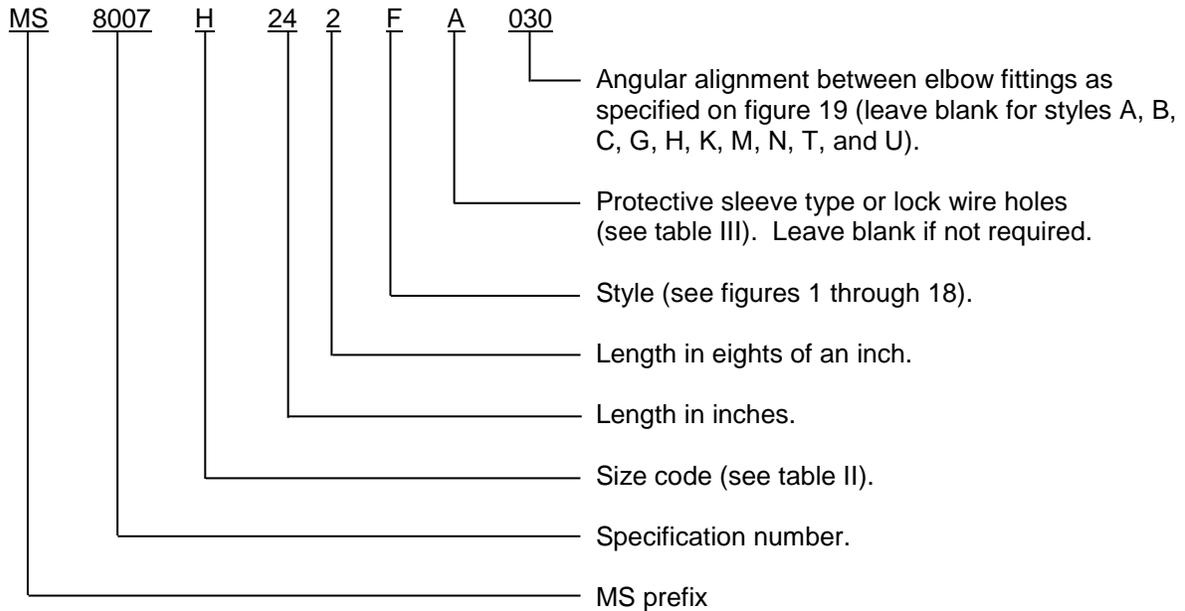


NOTE: Angular alignment shall be measured in degrees with a tolerance of $\pm 2^\circ$.

FIGURE 20. Measurement of angular alignment between elbow fittings.

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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 or lock wire holes, letter or blank, and the angular alignment between the elbow fittings blank or three digits.



PIN examples:

MS8007H242FA030 specifies a 24.250 inch length, style F hose assembly with a .500 inch tube OD, a fire protective sleeve in accordance with SAE-AS1072, and a 30° between the elbow fittings.

MS8007H242FL030 specifies a 24.250 inch length, style F hose assembly with a .500 inch tube OD, lock wire holes, 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:

MS20756	SAE-AS1298
SAE-AS1072	SAE-AS4395
SAE-AS1073	SAE-AS8879
SAE-AS1291	

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CONCLUDING MATERIAL

Custodians:

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

Preparing activity:
DLA - CC

(Project 4720-2015-011)

Review activities:

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

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.