

Stratoflex

*170 PTFE High Pressure Hose
Products for the Aerospace Industry*

*Catalog 106-170
November 1999*



The World Standard

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

Before selecting or using any Parker hose or fittings or related accessories, it is important that you read and follow Parker Safety Guide for Selecting and Using Hoses, Fittings, and Related Accessories (Parker Publication No. 4400-B.1)

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors, provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

Offer of Sale

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions in the "Offer of Sale". See page 27.














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How to Use This Catalog

- If you know the type of part (fitting, hose assembly, etc.), see the Table of Contents on page 1.
- The Stratoflex part numbering system for Hose Assemblies is defined on page 3.
- The Stratoflex Hose and Fitting information tables have international symbols as column heads. The symbols and their meaning are noted below.

SYMBOL	DEFINITION	SYMBOL	DEFINITION
#	Part Number		Vacuum Rating
	Hose Inner Diameter		Crimp Fitting
	Hose Outer Diameter		Field Attachable Fitting
	Working Pressure		Page Number
	Burst Pressure		Thread Size
	Minimum Bend Radius		Hex Size
	Weight		Diameter

Ordering Information for Standard Items

1. HOSE ASSEMBLY:

STRAIGHT TO STRAIGHT (OR STRAIGHT TO SINGLE ELBOW) EXAMPLE:

170001-8CR-0185

Basic Hose Assembly Number _____ Assembly Length in inches to three digits. The last digit specifies eighths of an inch.
 Size (1/2" O.D. Tube Size) In 1/16" _____ See Material Note Below

Basic Hose Assembly part numbers may be modified to add a sleeve or coil by the insertion of a code letter between the basic hose number and the configuration. Code letters and accessories described on Pages 25 and 26.

170F001-8CR-0185

Basic Part Number with 2650 Firesleeve and 10781 Clamps

DOUBLE ELBOW EXAMPLE: **170060E0185C180**

Basic Hose Assembly Number _____ Twist Angle (180° - See Page 4)
 Size (1/2" O.D. Tube Size) In 1/16" _____ See Material Note Below
 Assembly Length in inches to three digits. The last digit specifies eighths of an inch.

SIZE CODE FOR DOUBLE ELBOW HOSE ASSEMBLIES

DASH SIZE	-4	-6	-8	-10	-12	-16
SF CODE LETTER	B	D	E	F	G	H

MATERIAL: Unless otherwise noted, conforms to applicable specifications.

C or CR - Stainless steel conforming to application AS or MS standards.

CL - Same as CR except lockwire holes in nut.

Other materials: Titanium, Inconel, etc. available on special order.

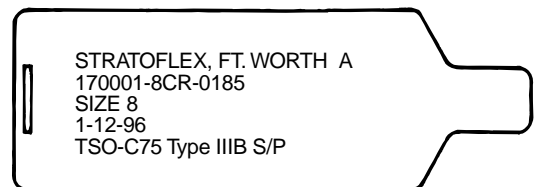
LENGTH MEASUREMENT - Length is measured along hose centerline from end of nipple to end of nipple.

NOTE: This differs from many MS and AS part numbers for flareless and beam seal fittings. See page 4.

NOTE: For additional information on special materials or accessories not shown, see pages 25 and 26 or contact Stratoflex.

NOTE: Unless otherwise noted, dimensions shown herein are nominal and are subject to change without notice. Contact Stratoflex Customer Service for current data.

2. IDENTIFICATION BANDS: An example of Identification bands used when required for Hose Assemblies confirming TSO-C42, C53a or C75 follows:



Ordering Information for Standard Items

STRATOFLEX "TWIST ANGLE" INFORMATION

HOW TO MEASURE AND SPECIFY POSITIONING OF FITTINGS WHEN TWO ELBOW FITTINGS ARE REQUIRED ON A HOSE ASSEMBLY



MEASURING: When installations require hose assemblies with elbow fittings on both ends, hold the assembly so that the nearest fitting is pointing in the 6 o'clock position. Measure angle between fittings, counterclockwise. Both fittings pointing to 6 o'clock will be specified as zero degrees (0°)

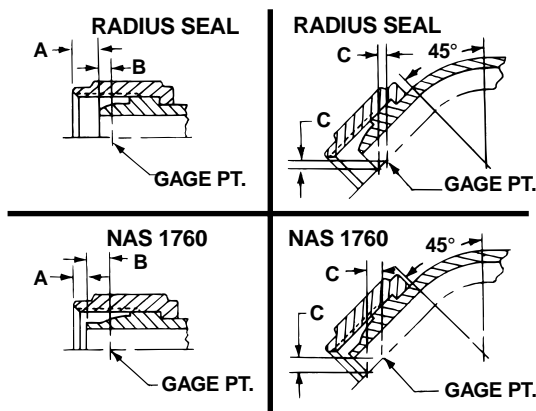
SPECIFYING POSITION: Add a suffix to the hose assembly part number with the number of degrees in the angle. (Example: 170060E0185C180; 180° Twist Angle.)

NOTE: Elbow Hose Fittings shown in this catalog are STRATOFLEX standard type designs. If your installation requires a fitting of a different angle or connection, submit a print for Stratoflex Engineering evaluation.

MEASUREMENT OF FLARELESS HOSE ASSEMBLIES

NAS 1760 Nipple end design is the standard supplied by Stratoflex on flareless hose fittings. Flareless hose assembly length "L" is measured from END of nipple to END of nipple. To convert "END to END" to "GAGE POINT to GAGE POINT" measurement, subtract from "L" the appropriate "B or C" dimension shown in table below for each end fitting. The figures and table below give a comparison of NAS 1760 nipple end design and the Radius Seal end design.

NOTE: ALL HOSE FITTINGS ARE MEASURED AT THE CENTERLINE FOR LENGTH AND DROP DIMENSIONS.



Dash Size	A			B			C		
	NAS	Radius	Diff.	NAS	Radius	Diff.	NAS	Radius	Diff.
3	.123	.138	.015	.140	.085	.055	.099	.060	.039
4	.176	.207	.031	.155	.062	.093	.110	.044	.066
5	.160	.227	.067	.157	.058	.099	.111	.041	.070
6	.173	.198	.025	.164	.059	.105	.116	.042	.074
8	.191	.217	.026	.189	.064	.125	.134	.045	.089
10	.207	.247	.040	.201	.078	.123	.142	.055	.087
12	.206	.303	.097	.228	.069	.159	.161	.049	.112
16	.141	.329	.188	.297	.132	.165	.210	.093	.117
20	.147	.367	.220	.300	.090	.210	.212	.064	.148
24	.077	.330	.253	.365	.134	.231	.258	.095	.163

170 PTFE Hose

170 PTFE Hose



SPECIFICATIONS:

Meets or exceeds the requirements of AS604 (formerly MIL-H-38360). See information bulletin IB-1030 for TSO approvals.

CONSTRUCTION:

Tube - Extruded conductive aerospace polytetrafluoroethylene.

Reinforcement - All reinforcement is corrosion resistant steel wire. Conductivity conforms to AS604 (MIL-H-38360).

APPLICATION:







High temperature and high pressure aircraft and missile hydraulic systems.

PROOF PRESSURE:

Hydrostatic pressure test at twice the rated working pressure.

TEMPERATURE RANGE:

-65 to +400°F (-54 to +204°C)

#	Tube Size O.D.	Hose Size	 Nominal	 Maximum	 3000				 LBS lb/in
						Min. @ 70°F	Min. @ 400°F		
170-4	.250	-4	.236	.420	3000	16,000	12,000	3.00	.011
170-6	.375	-6	.312	.590	3000	14,000	10,500	5.00	.025
170-8	.500	-8	.407	.715	3000	14,000	10,500	5.75	.036
170-10	.625	-10	.540	.905	3000	12,000	9000	6.50	.057
170-12	.750	-12	.665	1.090	3000	12,000	9000	7.75	.078
170-16	1.00	-16	.890	1.390	3000	12,000	9000	9.62	.125

See pages 6, 7, 25 and 26 for additional accessories, sleeves, etc.

BENEFITS

- 3000 psi working pressure hose
- Unlimited shelf life
- Superior resistance to wire breakage for high vibration applications as compared to lighter weight products

170 PTFE Hose

170H/J Integral Firesleeve PTFE Hose



SPECIFICATIONS:

Meets or exceeds the requirements of AS604 (formerly MIL-H-38360). See information bulletin IB-1030 for TSO approvals.

CONSTRUCTION:

Tube - Extruded conductive aerospace polytetrafluoroethylene.

Reinforcement - All reinforcement is corrosion resistant steel wire. Conductivity conforms to AS604 (MIL-H-38360).

Cover - Integral fire resistant silicone ("H" sizes -4, -6, -8, -12; "J" sizes -10, -16).

APPLICATION:

High temperature and high pressure aircraft and missile hydraulic systems, where fire resistance is required.

PROOF PRESSURE:

Hydrostatic pressure test at twice the rated working pressure.

TEMPERATURE RANGE:

-65 to +400°F (-54 to +204°C)

#	Tube Size O.D.	Hose Size	Nominal	Maximum 1	3000	Min. @ 70°F		3.00	LBS lb/in Nominal
						Min. @ 70°F	Min. @ 400°F		
170-4H	.250	-4	.236	.705	3000	16,000	12,000	3.00	.023
170-6H	.375	-6	.312	.880	3000	14,000	10,500	5.00	.042
170-8H	.500	-8	.407	1.005	3000	14,000	10,500	5.75	.055
170-10J	.625	-10	.540	1.100	3000	12,000	9000	6.50	.072
170-12H	.750	-12	.665	1.382	3000	12,000	9000	7.75	.108
170-16J	1.00	-16	.890	1.630	3000	12,000	9000	9.62	.151

1. Maximum over firesleeve (fitting cuffs will exceed).
2. Associated fitting part numbers (for "H"/"J") assemblies will differ from those shown on pages 8-10 to provide hexless sockets.
3. Cuff part number for 170-size H hose is 5030-hose size-R.
Cuff part number for 170-size J hose is 5030-hose size-1R.

BENEFITS

- Envelope dimensions smaller than conventional "slip over" firesleeve
- No "wicking" as seen with "slip over" firesleeve
- No end dipping necessary
- Has superior vibration dampening characteristics than non-integral products (see AIR4092)
- 15 minute "fire proof" performance

170 PTFE Hose

170K PTFE Hose



SPECIFICATIONS:

Meets or exceeds the requirements of AS604 (formerly MIL-H-38360) except sustained maximum temperature. See information bulletin IB-1030 for TSO approvals.

CONSTRUCTION:

Tube - Extruded conductive aerospace polytetrafluoroethylene.

Reinforcement - All reinforcement is corrosion resistant steel wire. Conductivity conforms to AS604 (MIL-H-38360).

Cover - Integral braided blue polyester, abrasion resistant.

APPLICATION:

Medium temperature and high pressure aircraft and missile hydraulic systems, where abrasion resistance is required.

PROOF PRESSURE:

Hydrostatic pressure test at twice the rated working pressure.

TEMPERATURE RANGE:

-65 to +275°F (-54 to +135°C) (Maximum temperature limit for abrasion cover.)

#	Tube Size O.D.	Hose Size	Nominal	Maximum ¹	3000	Min.		3.00	LBS lb/in Nominal
						@ 70°F	@ 400°F ²		
170-4K	.250	-4	.236	.535	3000	16,000	12,000	3.00	.013
170-6K	.375	-6	.312	.700	3000	14,000	10,500	5.00	.029
170-8K	.500	-8	.407	.825	3000	14,000	10,500	5.75	.039
170-10K	.625	-10	.540	1.015	3000	12,000	9000	6.50	.061
170-12K	.750	-12	.665	1.200	3000	12,000	9000	7.75	.083
170-16K	1.00	-16	.890	1.500	3000	12,000	9000	9.62	.131

1. O.D. may exceed AS621, etc.

2. See temperature limit "K" style

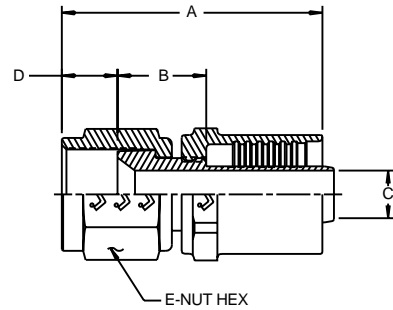
BENEFIT




- Added abrasion resistance

170 PTFE Hose Fittings

29524 Straight Flared Fitting (Crimp)

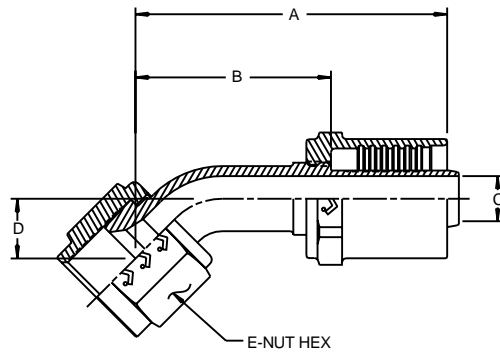
37° Flare Swivel
Mates with AS4395/MS33656 connection ends.






#	Tube Size O.D.	Hose Size		After Crimp Max. A	Cut Factor B	Drill Dia. Min. C ^①	D NOMINAL	 E	 NOMINAL
29524-4-4CR	.250	-4	.4375-20UNJF-3B	1.51	.51	.135	.35	.56	.061
29524-6-6CR	.375	-6	.5625-18UNJF-3B	1.80	.58	.240	.38	.69	.102
29524-8-8CR	.500	-8	.750-16UNJF-3B	2.04	.66	.340	.43	.88	.166
29524-10-10CR	.625	-10	.875-14UNJF-3B	2.31	.74	.410	.51	1.00	.241
29524-12-12CR	.750	-12	1.0625-12UNJ-3B	2.49	.73	.510	.57	1.25	.361
29524-16-16CR	1.000	-16	1.3125-12UNJ-3B	2.67	.82	.760	.60	1.50	.575

29526 45° Elbow Flared Fitting (Crimp)

37° Flare Swivel
Mates with AS4395/MS33656 connection type.



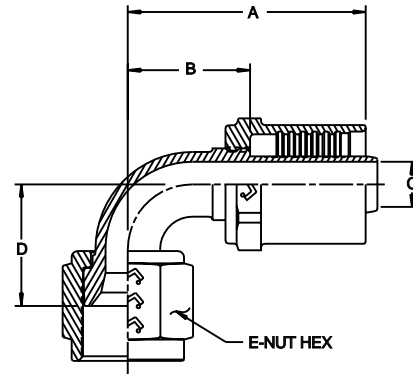
#	Tube Size O.D.	Hose Size		After Crimp Max. A	Cut Factor B	Drill Dia. Min. C ^①	D NOMINAL	 E	 NOMINAL
29526-4-4CR	.250	-4	.4375-20UNJF-3B	1.79	1.11	.135	.31	.56	.067
29526-6-6CR	.375	-6	.5625-18UNJF-3B	2.22	1.35	.240	.40	.69	.115
29526-8-8CR	.500	-8	.750-16UNJF-3B	2.49	1.50	.340	.46	.88	.199
29526-10-10CR	.625	-10	.875-14UNJF-3B	2.96	1.86	.410	.54	1.00	.296
29526-12-12CR	.750	-12	1.0625-12UNJ-3B	2.73	1.51	.510	.69	1.25	.469
29526-16-16CR	1.000	-16	1.3125-12UNJ-3B	3.02	1.74	.760	.79	1.50	.744

① Minimum inside diameter after installation on hose may vary. See applicable AS or MS standard.

170 PTFE Hose Fittings

29528 90° Elbow Flared Fitting (Crimp)

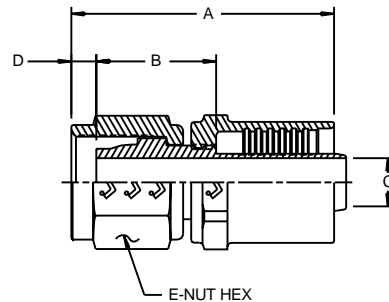
37° Flare Swivel
Mates with AS4395/MS33656 connection ends.



#	Tube Size O.D.	Hose Size		After Crimp Max. A	Cut Factor B	Drill Dia. Min. C ①	D NOMINAL		
29528-4-4CR	.250	-4	.4375-20UNJF-3B	1.44	.76	.135	.66	.56	.067
29528-6-6CR	.375	-6	.5625-18UNJF-3B	1.76	.88	.240	.86	.69	.115
29528-8-8CR	.500	-8	.750-16UNJF-3B	1.93	.94	.340	.94	.88	.199
29528-10-10CR	.625	-10	.875-14UNJF-3B	2.29	1.20	.410	1.14	1.00	.296
29528-12-12CR	.750	-12	1.0625-12UNJ-3B	2.53	1.31	.510	1.47	1.25	.531
29528-16-16CR	1.000	-16	1.3125-12UNJ-3B	2.94	1.67	.760	1.84	1.50	.773

29434 Straight Flareless Fitting (Crimp)

Flareless Swivel NAS-1760
Mates with AS4375/MS33514 connection ends.



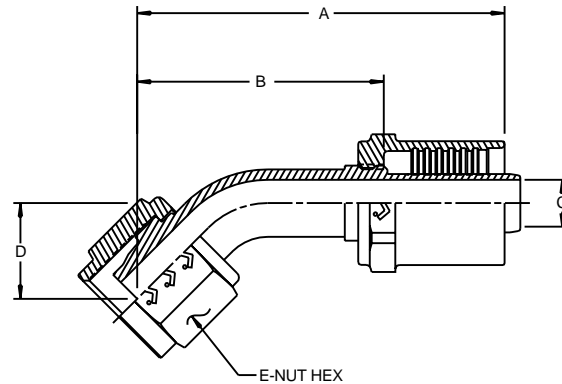
#	Tube Size O.D.	Hose Size		After Crimp Max. A	Cut Factor B	Drill Dia. Min. C ①	D		
29434-4-4CR	.250	-4	.4375-20UNJF-3B	1.51	.68	.135	.18	.56	.062
29434-6-6CR	.375	-6	.5625-18UNJF-3B	1.80	.80	.240	.17	.69	.105
29434-8-8CR	.500	-8	.750-16UNJF-3B	2.06	.91	.340	.19	.88	.174
29434-10-10CR	.625	-10	.875-14UNJF-3B	2.30	1.02	.410	.21	1.00	.258
29434-12-12CR	.750	-12	1.0625-12UNJ-3B	2.49	1.10	.510	.21	1.25	.394
29434-16-16CR	1.000	-16	1.3125-12UNJ-3B	2.68	1.27	.760	.14	1.50	.640

① Minimum inside diameter after installation on hose may vary. See applicable AS or MS standard.

170 PTFE Hose Fittings

29436 45° Elbow Flareless Fitting (Crimp)

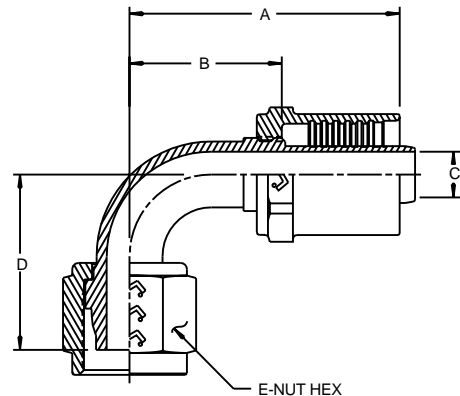
Flareless Swivel NAS-1760
Mates with AS4375/MS33514 connection ends.



#	Tube Size O.D.	Hose Size		Max. A	Cut Factor B	Drill Dia. Min. C ^①	D	E	LBS NOMINAL
29436-4-4CR	.250	-4	.4375-20UNJF-3B	1.98	1.30	.135	.53	.56	.069
29436-6-6CR	.375	-6	.5625-18UNJF-3B	2.44	1.58	.240	.63	.69	.160
29436-8-8CR	.500	-8	.750-16UNJF-3B	2.84	1.86	.340	.71	.88	.277
29436-10-10CR	.625	-10	.875-14UNJF-3B	3.37	2.26	.410	.82	1.00	.413
29436-12-12CR	.750	-12	1.0625-12UNJ-3B	3.05	1.83	.510	1.01	1.25	.636
29436-16-16CR	1.000	-16	1.3125-12UNJ-3B	3.41	2.14	.760	1.19	1.50	.765

29438 90° Elbow Flareless Fitting (Crimp)

Flareless Swivel NAS-1760
Mates with AS4375/MS33514 connection ends.



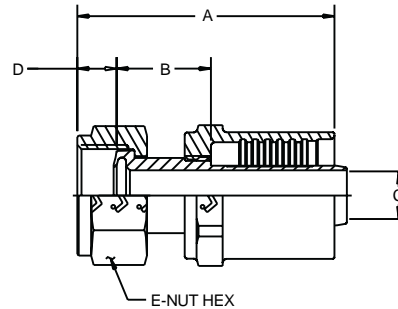
#	Tube Size O.D.	Hose Size		Max. A	Cut Factor B	Drill Dia. Min. C ^①	Nominal D	E	LBS NOMINAL
29438-4-4CR	.250	-4	.4375-20UNJF-3B	1.43	.76	.135	.93	.56	.069
29438-6-6CR	.375	-6	.5625-18UNJF-3B	1.77	.89	.240	1.17	.69	.160
29438-8-8CR	.500	-8	.750-16UNJF-3B	2.05	1.07	.340	1.33	.88	.277
29438-10-10CR	.625	-10	.875-14UNJF-3B	2.35	1.24	.410	1.56	1.00	.413
29438-12-12CR	.750	-12	1.0625-12UNJ-3B	2.53	1.31	.510	1.93	1.25	.564
29438-16-16CR	1.000	-16	1.3125-12UNJ-3B	2.84	1.56	.760	2.30	1.50	.838




① Minimum inside diameter after installation on hose may vary. See applicable AS or MS standard.

170 PTFE Hose Fittings

29631 Straight Beam Seal Fitting (Crimp)

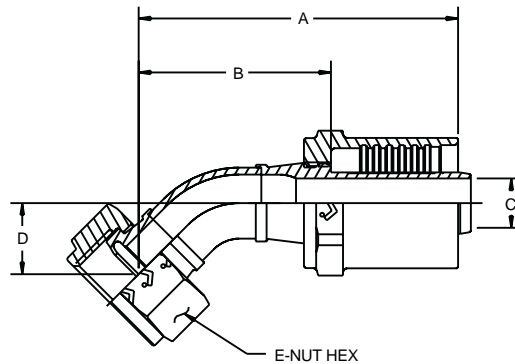
Swivel
Mates with AS4207/MIL-F-85421/1 connection ends.






#	Tube Size O.D.	Hose Size		Max. A	Cut Factor B	Drill Dia. Min. C ^①	D NOMINAL	 E	 NOMINAL
29631-4-4CR	.250	-4	.4375-24UNJS-3B	1.27	.62	.135	.20	.56	.073
29631-6-6CR	.375	-6	.5625-20UNJS-3B	1.52	.69	.240	.24	.69	.110
29631-8-8CR	.500	-8	.7188-20UNJS-3B	1.64	.68	.340	.28	.88	.165
29631-10-10CR	.625	-10	.8438-18UNJS-3B	1.83	.75	.410	.28	1.00	.264
29631-12-12CR	.750	-12	1.000-16UNJ-3B	2.04	.84	.510	.31	1.12	.321
29631-16-16CR	1.000	-16	1.2500-14UNJ-3B	2.19	.91	.760	.33	1.50	*

29632 45° Elbow Beam Seal Fitting (Crimp)

Swivel
Mates with AS4207/MIL-F-85421/1 connection type.



#	Tube Size O.D.	Hose Size		Max. A	Cut Factor B	Drill Dia. Min. C ^①	D NOMINAL	 E	 NOMINAL
29632-4-4CR	.250	-4	.4375-24UNJS-3B	1.86	1.19	.135	.50	.56	.076
29632-6-6CR	.375	-6	.5625-20UNJS-3B	2.22	1.39	.240	.56	.69	.123
29632-8-8CR	.500	-8	.7188-20UNJS-3B	2.37	1.36	.340	.59	.88	.188
29632-10-10CR	.625	-10	.8438-18UNJS-3B	2.42	1.33	.410	.69	1.00	.272
29632-12-12CR	.750	-12	1.000-16UNJ-3B	2.61	1.42	.510	.82	1.12	.343
29632-16-16CR	1.000	-16	1.2500-14UNJ-3B	2.94	1.66	.760	1.09	1.50	*

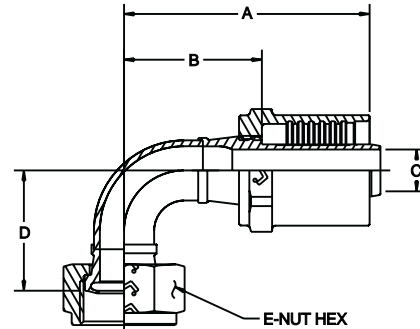
^① Minimum inside diameter after installation on hose may vary. See applicable AS or MS standard.




* To be determined.

170 PTFE Hose Fittings

29633 90° Elbow Beam Seal Fitting (Crimp)

Swivel
Mates with AS4207/MIL-F-85421/1 connection ends.

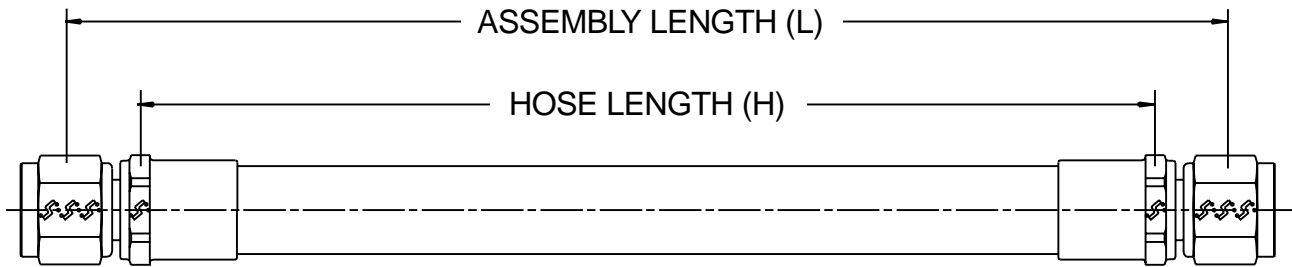


#	Tube Size O.D.	Hose Size		Max. A	Cut Factor B	Drill Dia. Min. C ^①	D NOMINAL	 E	 NOMINAL
29633-4-4CR	.250	-4	.4375-24UNJS-3B	1.63	.96	.135	.89	.56	.078
29633-6-6CR	.375	-6	.5625-20UNJS-3B	1.97	1.14	.240	1.06	.69	.128
29633-8-8CR	.500	-8	.7188-20UNJS-3B	2.16	1.15	.340	1.14	.88	.195
29633-10-10CR	.625	-10	.8438-18UNJS-3B	2.19	1.10	.410	1.14	1.00	.285
29633-12-12CR	.750	-12	1.000-16UNJ-3B	2.50	1.32	.510	1.47	1.12	.375
29633-16-16CR	1.000	-16	1.2500-14UNJ-3B	2.98	1.68	.760	2.27	1.50	*

^① Minimum inside diameter after installation on hose may vary. See applicable AS or MS standard.

* To be determined.

170 PTFE Flare Hose Assemblies



EXAMPLE OF PART NUMBER

170001-8CR-0185

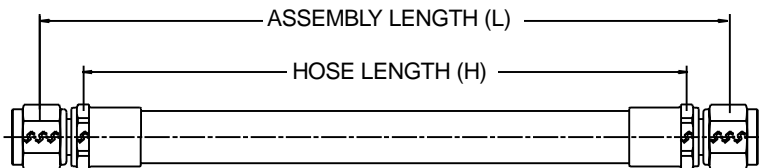
Assembly Length (L) in inches. The last digit specifies eighths of an inch.
 Fitting Material Code
 Size (.500 Tube)
 Basic Part No.

170F001


Basic Part No. with 2650 Fire Sleeve and 10781 Clamps.

Hose Assemblies with FLARE fittings conform to AS604 (formerly MIL-H-38360) and AS(MS) part numbers shown. Fittings mate with AS4395/MS33656 type connectors. Assembly length measured from END of nipple to END of nipple.

Assemblies with Flare Fittings



Straight-To-Straight

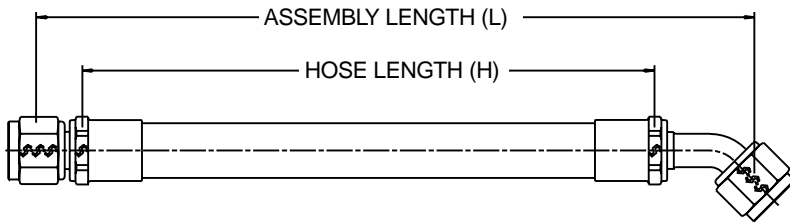
#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb*
170001-4CR-L	170-4	29524-4-4CR	29524-4-4CR	3.00	L-1.02	.243
170001-6CR-L	170-6	29524-6-6CR	29524-6-6CR	5.00	L-1.16	.475
170001-8CR-L	170-8	29524-8-8CR	29524-8-8CR	5.75	L-1.32	.716
170001-10CR-L	170-10	29524-10-10CR	29524-10-10CR	6.50	L-1.48	1.082
170001-12CR-L	170-12	29524-12-12CR	29524-12-12CR	7.75	L-1.46	1.544
170001-16CR-L	170-16	29524-16-16CR	29524-16-16CR	9.62	L-1.64	2.445

AS627 (MS27363)

* Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.

170 PTFE Flare Hose Assemblies

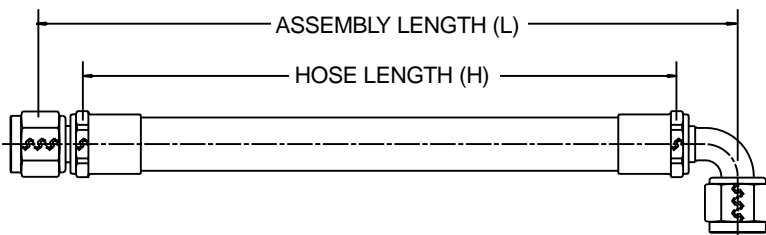
Assemblies with Flare Fittings




Straight-To-45° Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb*
170003-4CR-L	170-4	29524-4-4CR	29526-4-4CR	3.00	L-1.62	.242
170003-6CR-L	170-6	29524-6-6CR	29526-6-6CR	5.00	L-1.93	.469
170003-8CR-L	170-8	29524-8-8CR	29526-8-8CR	5.75	L-2.16	.719
170003-10CR-L	170-10	29524-10-10CR	29526-10-10CR	6.50	L-2.60	1.073
170003-12CR-L	170-12	29524-12-12CR	29526-12-12CR	7.75	L-2.24	1.591
170003-16CR-L	170-16	29524-16-16CR	29526-16-16CR	9.62	L-2.56	2.499

AS628 (MS27364)



Straight-To-90° Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb*
170005-4CR-L	170-4	29524-4-4CR	29528-4-4CR	3.00	L-1.27	.240
170005-6CR-L	170-6	29524-6-6CR	29528-6-6CR	5.00	L-1.46	.481
170005-8CR-L	170-8	29524-8-8CR	29528-8-8CR	5.75	L-1.60	.739
170005-10CR-L	170-10	29524-10-10CR	29528-10-10CR	6.50	L-1.94	1.110
170005-12CR-L	170-12	29524-12-12CR	29528-12-12CR	7.75	L-2.04	1.669
170005-16CR-L	170-16	29524-16-16CR	29528-16-16CR	9.62	L-2.49	2.537

AS629 (MS27365)

* Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.

170 PTFE Flare Hose Assemblies

EXAMPLE OF PART NUMBER

170060E0185C180

Basic Part No.

170F060

Basic Part Number with 2650 Fire Sleeve and 10781 Clamps.

Twist Angle (*) In Degrees. See Page 4.

Fitting Material Code

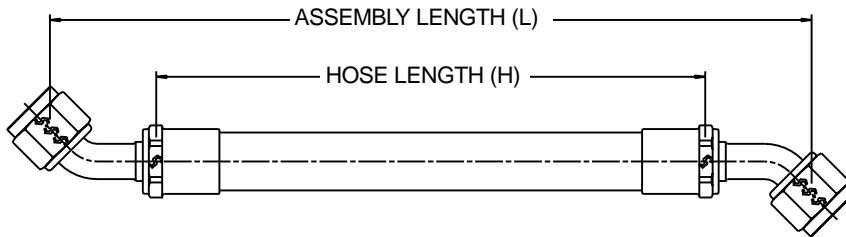
Assembly Length (L) in inches. The last digit specifies eighths of an inch.

SIZE CODE FOR DOUBLE ELBOW HOSE ASSEMBLIES


Hose Dash Size	-4	-6	-8	-10	-12	-16
Letter Code	B	D	E	F	G	H

Assembly length measured from END of nipple to END of nipple.

Assemblies with Double Elbow Flare Fittings



45° Elbow-to-45°-Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb**
170060B(L)C*	170-4	29526-4-4CR	29526-4-4CR	3.00	L-2.22	.242
170060D(L)C*	170-6	29526-6-6CR	29526-6-6CR	5.00	L-2.70	.463
170060E(L)C*	170-8	29526-8-8CR	29526-8-8CR	5.75	L-3.00	.722
170060F(L)C*	170-10	29526-10-10CR	29526-10-10CR	6.50	L-3.72	1.064
170060G(L)C*	170-12	29526-12-12CR	29526-12-12CR	7.75	L-3.02	1.638
170060H(L)C*	170-16	29526-16-16CR	29526-16-16CR	9.62	L-3.48	2.553

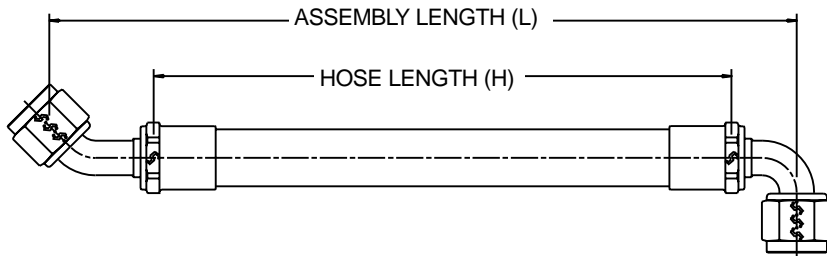
AS630 (MS27366)

* Twist Angle. See page 4.


** Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.

170 PTFE Flare Hose Assemblies

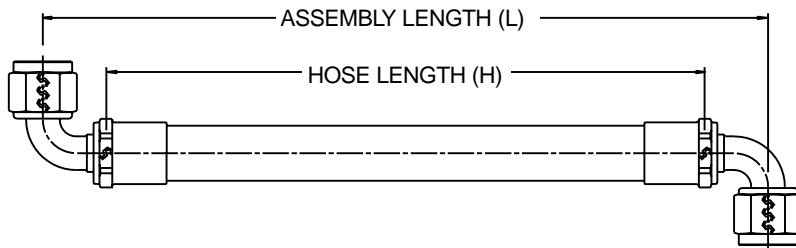
Assemblies with Double Elbow Flare Fittings




45° Elbow-To-90° Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb**
170062B(L)C*	170-4	29526-4-4CR	29528-4-4CR	3.00	L-1.87	.245
170062D(L)C*	170-6	29526-6-6CR	29528-6-6CR	5.00	L-2.23	.274
170062E(L)C*	170-8	29526-8-8CR	29528-8-8CR	5.75	L-2.44	.742
170062F(L)C*	170-10	29526-10-10CR	29528-10-10CR	6.50	L-3.06	1.102
170062G(L)C*	170-12	29526-12-12CR	29528-12-12CR	7.75	L-2.82	1.716
170062H(L)C*	170-16	29526-16-16CR	29528-16-16CR	9.62	L-3.41	2.591

AS631 (MS27367)



90° Elbow-To-90° Elbow

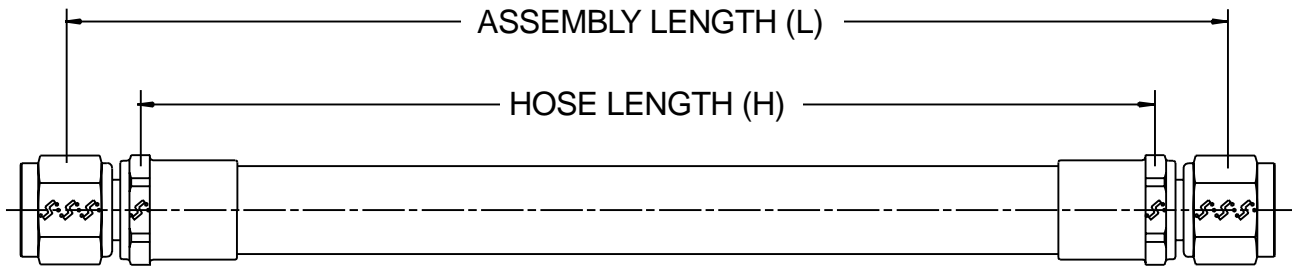
#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb**
170115B(L)C*	170-4	29528-4-4CR	29528-4-4CR	3.00	L-1.52	.249
170115D(L)C*	170-6	29528-6-6CR	29528-6-6CR	5.00	L-1.76	.486
170115E(L)C*	170-8	29528-8-8CR	29528-8-8CR	5.75	L-1.88	.762
170115F(L)C*	170-10	29528-10-10CR	29528-10-10CR	6.50	L-2.40	1.139
170115G(L)C*	170-12	29528-12-12CR	29528-12-12CR	7.75	L-2.62	1.794
170115H(L)C*	170-16	29528-16-16CR	29528-16-16CR	9.62	L-3.34	2.629

AS632 (MS27368)

* Twist Angle. See page 4.

** Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.

170 PTFE Flareless Hose Assemblies



EXAMPLE OF PART NUMBER

170141-8CR-0185

Assembly Length (L) in inches. The last digit specifies eighths of an inch.
 Fitting Material Code
 Size (.500 Tube)
 Basic Part No.

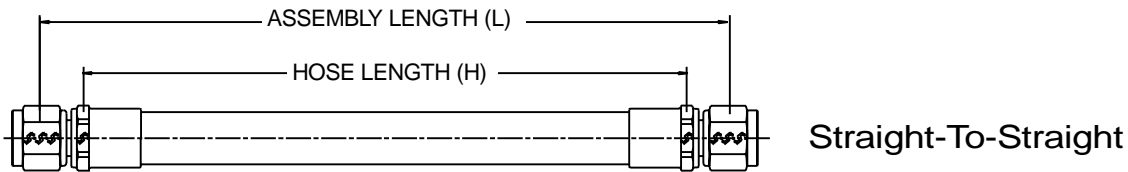
170F141


Basic Part No. with 2650 Fire Sleeve and 10781 Clamps.

Hose Assemblies with FLARELESS fittings meet the requirements of AS604 (formerly MIL-H-38360) and AS (MS) drawings referenced. Fittings mate with AS4375/MS33514 type connectors. Assembly length measured from **END of nipple to END of nipple**. See "MEASUREMENT OF FLARELESS HOSE ASSEMBLIES" (page 4) to convert to/from GAGE POINT to GAGE POINT assembly length.

NOTE: This differs from many MS and AS part numbers for flareless and beam seal fittings. See page 4.

Assemblies with Flareless Fittings



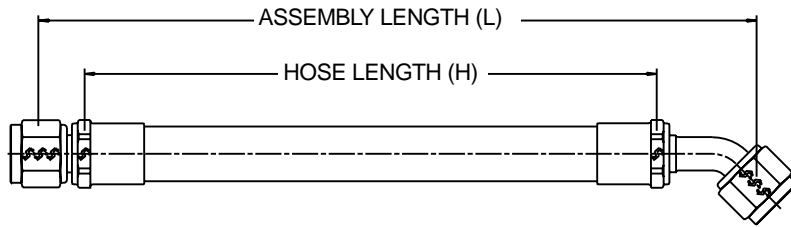
#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb*
170141-4CR-L	170-4	29434-4-4CR	29434-4-4CR	3.00	L-1.36	.241
170141-6CR-L	170-6	29434-6-6CR	29434-6-6CR	5.00	L-1.60	.470
170141-8CR-L	170-8	29434-8-8CR	29434-8-8CR	5.75	L-1.82	.714
170141-10CR-L	170-10	29434-10-10CR	29434-10-10CR	6.50	L-2.04	1.084
170141-12CR-L	170-12	29434-12-12CR	29434-12-12CR	7.75	L-2.20	1.552
170141-16CR-L	170-16	29434-16-16CR	29434-16-16CR	9.62	L-2.54	2.463

AS621 (MS27369)


* Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.

170 PTFE Flareless Hose Assemblies

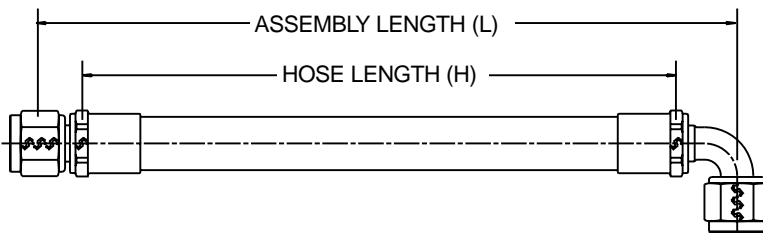
Assemblies with Flareless Fittings




Straight-To-45° Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb*
170143-4CR-L	170-4	29434-4-4CR	29436-4-4CR	3.00	L-1.98	.241
170143-6CR-L	170-6	29434-6-6CR	29436-6-6CR	5.00	L-2.38	.451
170143-8CR-L	170-8	29434-8-8CR	29436-8-8CR	5.75	L-2.80	.783
170143-10CR-L	170-10	29434-10-10CR	29436-10-10CR	6.50	L-3.46	1.168
170143-12CR-L	170-12	29434-12-12CR	29436-12-12CR	7.75	L-3.14	1.737
170143-16CR-L	170-16	29434-16-16CR	29436-16-16CR	9.62	L-3.41	2.479

AS622 (MS27370)



Straight-To-90° Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb*
170145-4CR-L	170-4	29434-4-4CR	29438-4-4CR	3.00	L-1.52	.247
170145-6CR-L	170-6	29434-6-6CR	29438-6-6CR	5.00	L-1.69	.541
170145-8CR-L	170-8	29434-8-8CR	29438-8-8CR	5.75	L-2.01	.852
170145-10CR-L	170-10	29434-10-10CR	29438-10-10CR	6.50	L-2.26	1.252
170145-12CR-L	170-12	29434-12-12CR	29438-12-12CR	7.75	L-3.14	1.923
170145-16CR-L	170-16	29434-16-16CR	29438-16-16CR	9.62	L-3.41	2.495

AS623 (MS27371)

* Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.

170 PTFE Flareless Hose Assemblies

EXAMPLE OF PART NUMBER

170190E0185C180

Basic Part No.

170F190

Basic Part Number with 2650 Fire Sleeve and 10781 Clamps.

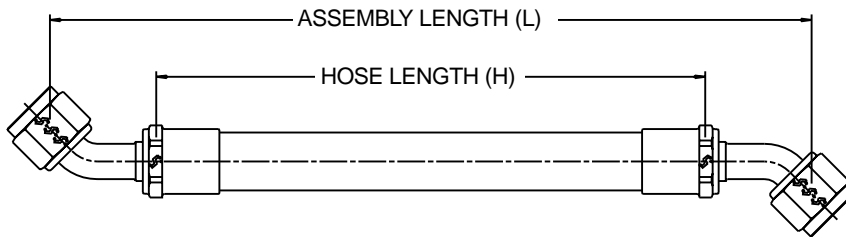
Twist Angle (*) In Degrees
 Fitting Material Code
 Assembly Length (L) in inches. The last digit specifies eighths of an inch.
 SIZE CODE FOR DOUBLE ELBOW HOSE ASSEMBLIES

Hose Dash Size	-4	-6	-8	-10	-12	-16
Letter Code	B	D	E	F	G	H


Assembly length measured from **END of nipple to END of nipple**. See "MEASUREMENT OF FLARELESS HOSE ASSEMBLIES" (page 4) to convert to GAGE POINT to GAGE POINT assembly length.

NOTE: This differs from many MS and AS part numbers for flareless and beam seal fittings. See page 4.

Assemblies with Double Elbow Flareless Fittings



45° Elbow-to-45°-Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb**
170190B(L)C*	170-4	29436-4-4CR	29436-4-4CR	3.00	L-2.60	.241
170190D(L)C*	170-6	29436-6-6CR	29436-6-6CR	5.00	L-3.16	.541
170190E(L)C*	170-8	29436-8-8CR	29436-8-8CR	5.75	L-3.72	.852
170190F(L)C*	170-10	29436-10-10CR	29436-10-10CR	6.50	L-4.52	1.252
170190G(L)C*	170-12	29436-12-12CR	29436-12-12CR	7.75	L-3.66	1.923
170190H(L)C*	170-16	29436-16-16CR	29436-16-16CR	9.62	L-4.28	2.495

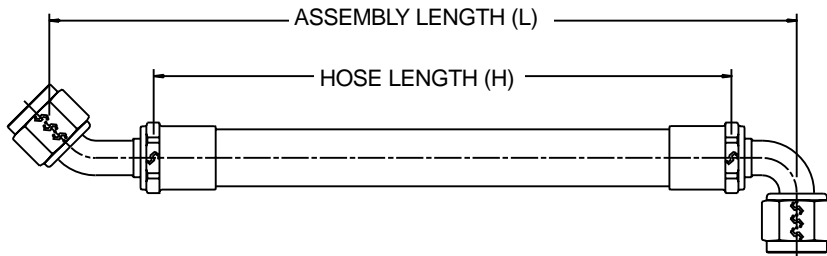
AS624 (MS27372)

* Twist angle - see page 4.


** Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.

170 PTFE Flareless Hose Assemblies

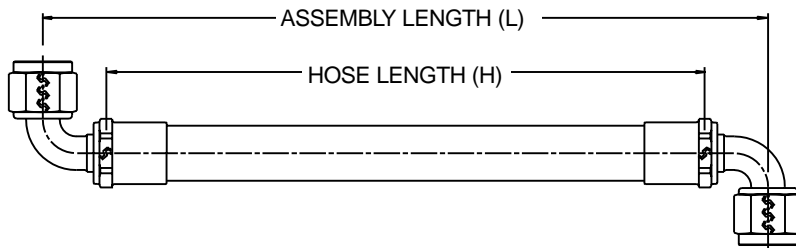
Assemblies with Double Elbow Flareless Fittings




45° Elbow-To-90° Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb**
170192B(L)C*	170-4	29436-4-4CR	29438-4-4CR	3.00	L-2.06	.247
170192D(L)C*	170-6	29436-6-6CR	29438-6-6CR	5.00	L-2.47	.558
170192E(L)C*	170-8	29436-8-8CR	29438-8-8CR	5.75	L-2.93	.881
170192F(L)C*	170-10	29436-10-10CR	29438-10-10CR	6.50	L-3.50	1.311
170192G(L)C*	170-12	29436-12-12CR	29438-12-12CR	7.75	L-3.14	1.990
170192H(L)C*	170-16	29436-16-16CR	29438-16-16CR	9.62	L-3.70	2.641

AS625 (MS27373)



90° Elbow-To-90° Elbow

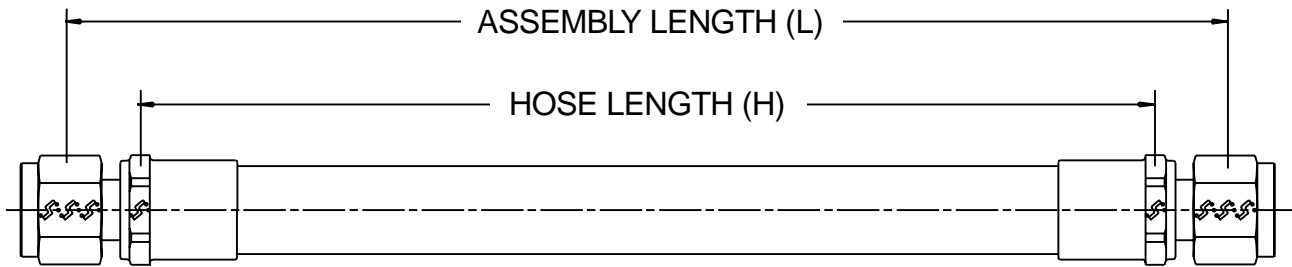
#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb**
170235B(L)C*	170-4	29438-4-4CR	29438-4-4CR	3.00	L-1.52	.253
170235D(L)C*	170-6	29438-6-6CR	29438-6-6CR	5.00	L-1.78	.576
170235E(L)C*	170-8	29438-8-8CR	29438-8-8CR	5.75	L-2.14	.909
170235F(L)C*	170-10	29438-10-10CR	29438-10-10CR	6.50	L-2.48	1.369
170235G(L)C*	170-12	29438-12-12CR	29438-12-12CR	7.75	L-2.62	2.058
170235H(L)C*	170-16	29438-16-16CR	29438-16-16CR	9.62	L-3.12	2.786

AS626 (MS27374)

* Twist Angle. See page 4.

** Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.

170 PTFE Beam Seal Hose Assemblies



EXAMPLE OF PART NUMBER

170609-8CR-0185

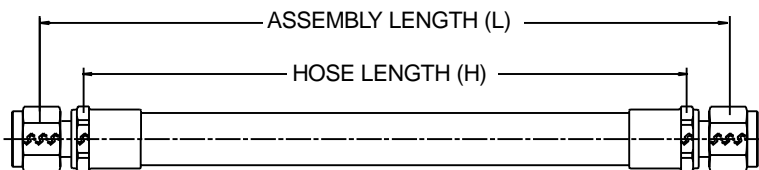
Assembly Length (L) in inches. The last digit specifies eighths of an inch.
 Fitting Material Code
 Size (.500 Tube)
 Basic Part No.

170F609


Basic Part No. with 2650 Fire Sleeve and 10781 Clamps.

Hose Assemblies with Beam Seal fittings conform to part numbers shown. Fittings mate with AS4207/MIL-F-85421/1 type connectors. Assembly length measured from END of nipple to END of nipple.

Assemblies with Beam Seal Fittings



Straight-To-Straight

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb*
170609-4CR-L	170-4	29631-4-4CR	29631-4-4CR	3.00	L-1.24	.264
170609-6CR-L	170-6	29631-6-6CR	29631-6-6CR	5.00	L-1.38	.486
170609-8CR-L	170-8	29631-8-8CR	29631-8-8CR	5.75	L-1.36	.713
170609-10CR-L	170-10	29631-10-10CR	29631-10-10CR	6.50	L-1.50	1.127
170609-12CR-L	170-12	29631-12-12CR	29631-12-12CR	7.75	L-1.68	1.447
170609-16CR-L	170-16	29631-16-16CR	29631-16-16CR	9.62	L-1.82	**

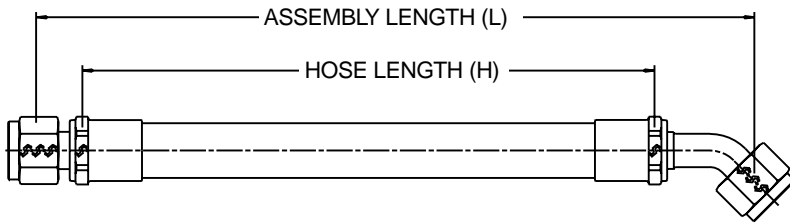
AS4352

* Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.

** To be determined.

170 PTFE Beam Seal Hose Assemblies

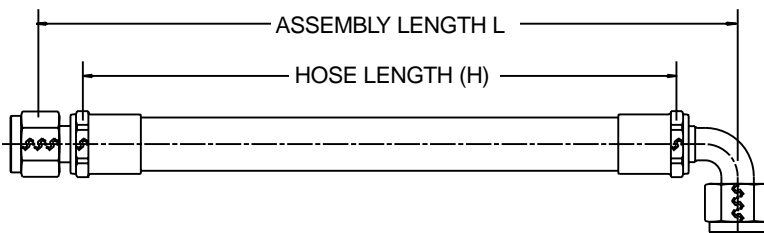
Assemblies with Beam Seal Fittings




Straight-To-45° Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb*
170610-4CR-L	170-4	29631-4-4CR	29632-4-4CR	3.00	L-1.93	.261
170610-6CR-L	170-6	29631-6-6CR	29632-6-6CR	5.00	L-2.24	.481
170610-8CR-L	170-8	29631-8-8CR	296732-8-8CR	5.75	L-2.06	.712
170610-10CR-L	170-10	29631-10-10CR	29632-10-10CR	6.50	L-2.10	1.101
170610-12CR-L	170-12	29631-12-12CR	29632-12-12CR	7.75	L-2.60	1.424
170610-16CR-L	170-16	29631-16-16CR	29632-16-16CR	9.62	L-2.57	**

AS4353



Straight-To-90° Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb*
170611-4CR-L	170-4	29631-4-4CR	29633-4-4CR	3.00	L-1.58	.265
170611-6CR-L	170-6	29631-6-6CR	29633-6-6CR	5.00	L-1.83	.492
170611-8CR-L	170-8	29631-8-8CR	29633-8-8CR	5.75	L-1.83	.726
170611-10CR-L	170-10	29631-10-10CR	29633-10-10CR	6.50	L-1.85	1.128
170611-12CR-L	170-12	29631-12-12CR	29633-12-12CR	7.75	L-2.16	1.464
170611-16CR-L	170-16	29631-16-16CR	29633-16-16CR	9.62	L-2.59	**

AS4354

* Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.

** To be determined.

170 PTFE Beam Seal Hose Assemblies

EXAMPLE OF PART NUMBER

170612E0185C180

Basic Part No. ————
 Twist Angle (*) In Degrees
 Fitting Material Code
 Assembly Length (L) in inches. The last digit specifies eighths of an inch.
 SIZE CODE FOR DOUBLE ELBOW HOSE ASSEMBLIES

170F612

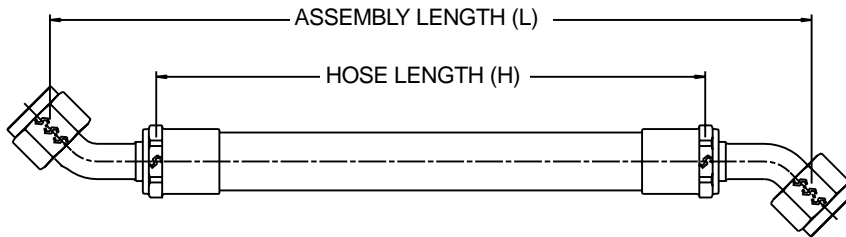
Basic Part Number
 with 2650 Fire Sleeve
 and 10781 Clamps.

Hose Dash Size	-4	-6	-8	-10	-12	-16
Letter Code	B	D	E	F	G	H

Assembly length measured from **END of nipple to END of nipple.**

NOTE: This differs from many MS and AS part numbers for flareless and beam seal fittings. See page 4.

Assemblies with Double Elbow Beam Seal Fittings



45° Elbow-to-45°-Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb**
170612B(L)C*	170-4	29632-4-4CR	29632-4-4CR	3.00	L-2.38	.258
170612D(L)C*	170-6	29632-6-6CR	29632-6-6CR	5.00	L-2.78	.477
170612E(L)C*	170-8	29632-8-8CR	29632-8-8CR	5.75	L-2.72	.710
170612F(L)C*	170-10	29632-10-10CR	29632-10-10CR	6.50	L-2.66	1.076
170612G(L)C*	170-12	29632-12-12CR	29632-12-12CR	7.75	L-2.84	1.400
170612H(L)C*	170-16	29632-16-16CR	29632-16-16CR	9.62	L-3.32	***

AS4355

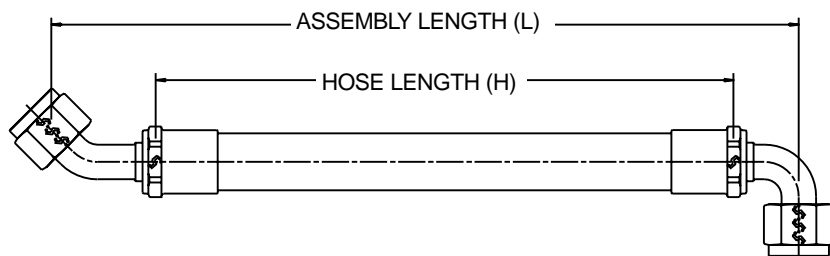
*Twist angle. See page 4.

** Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.


*** To be determined.

170 PTFE Beam Seal Hose Assemblies

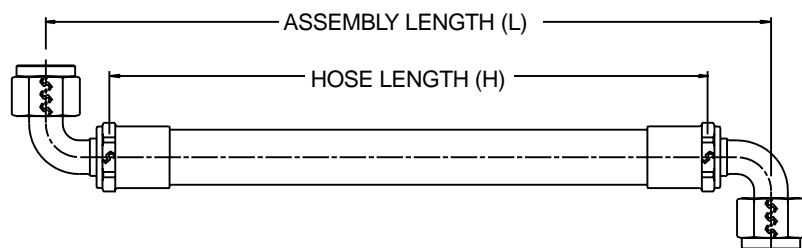
Assemblies with Double Elbow Beam Seal Fittings




45° Elbow-To-90° Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb**
170613B(L)C*	170-4	29632-4-4CR	29633-4-4CR	3.00	L-2.15	.262
170613D(L)C*	170-6	29632-6-6CR	29633-6-6CR	5.00	L-2.53	.488
170613E(L)C*	170-8	29632-8-8CR	29633-8-8CR	5.75	L-2.51	.725
170613F(L)C*	170-10	29632-10-10CR	29633-10-10CR	6.50	L-2.43	1.102
170613G(L)C*	170-12	29632-12-12CR	29633-12-12CR	7.75	L-2.74	1.440
170613H(L)C*	170-16	29632-16-16CR	29633-16-16CR	9.62	L-3.34	***

AS4356



90° Elbow-To-90° Elbow

#	Hose	Left Hand Hose Fitting	Right Hand Hose Fitting		Cut Factor H	12" Ass'y Weight lb**
170614B(L)C*	170-4	29633-4-4CR	29633-4-4CR	3.00	L-1.92	.267
170614D(L)C*	170-6	29633-6-6CR	29633-6-6CR	5.00	L-2.28	.499
170614E(L)C*	170-8	29633-8-8CR	29633-8-8CR	5.75	L-2.30	.739
170614F(L)C*	170-10	29633-10-10CR	29633-10-10CR	6.50	L-2.20	1.129
170614G(L)C*	170-12	29633-12-12CR	29633-12-12CR	7.75	L-2.64	1.480
170614H(L)C*	170-16	29633-16-16CR	29633-16-16CR	9.62	L-3.36	***

AS4357

*Twist angle. See page 4.

** Nominal weight for basic hose. Estimated maximum weight is 110% X value shown.

*** To be determined.

Coil and Sleeve Accessories

FIRE SLEEVED TYPE HOSE ASSEMBLIES



2650 FIRESLEEVE CODE F
Red Silicone Fiberglass -65° to 450°F (-54° to 232°C)
AS1072 SIL

NOTE: Temperature rating is for Firesleeve only.
Request P-104-29 for assembly instructions.

INTERNALLY SUPPORTED TYPE HOSE ASSEMBLIES



2611 INTERNAL SUPPORT COIL CODE C
Corrosion Resistant Steel SAE 30302/AMS5688

Request P-104-41 for assembly instructions.

TUBULAR ABRASION SLEEVES



2606 CODE V
TRANSLUCENT VINYL
-90° to 158°F (-68° to 70°C)
MIL-I-7444 TYPE I CLASS I



2637-SIZE B CODE T
BLACK TFE
-65° to 450°F (-54° to 232°C)
As1291

HEAT SHRINK ABRASION SLEEVES



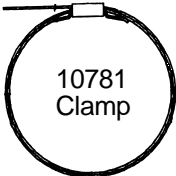
2629 CODE M
BLACK POLYOLEFIN
-67° to 275°F (-55° to 135°C)
AS1073 Code B and MIL-I-23053/5



2642 CODE Z
TRANSPARENT FEP TFE
-88° to 392°F (-67° to 200°C)
AS1073 Code C and MIL-I-23053/11

FIRE SLEEVE CLAMP

Fire Sleeve Clamp Versus
Hose Assembly Size



Hose	10781			
	-4-13CR	-4-22CR	-4-32CR	-4-48CR
111		-3/-8	-10/-16	-20/-32
112		-4/-8	-10/-12	-16
124	-3/-4/-5	-6/-12	-16Z/-20Z	-24Z
156	-3	-4/-10	-12/-16	-20/-32
170		-4/-10	-12/-16	
171		-4/-10	-12	
193	-2/-3	-4/-10		

SPIRAL WRAP ABRASION SLEEVES



2661-SIZE NB CODE X
BLACK NYLON
-65° to 300°F (-54° to 149°C)
AS1294



2681 CODE U
BLACK TFE
-65° to 450°F (-54° to 232°C)
AS1293

170 PTFE Hose and Accessories

Hose or Sleeve

Code		Type	Part No.	Hose Size Max. O.D. in BOLD type. Max. weight hose or sleeve - lbs. per inch in <i>ITALICS</i> type.					
SF	SAE			-4	-6	-8	-10	-12	-16
None		Hose only.	170-SIZE	.420 .011	.590 .025	.715 .036	.905 .057	1.090 .078	1.390 .125
H/J	H/J	Hose with integral extruded brown silicone fire cover is designed to meet the fire resistance requirements of AS1055, TSO-C53a and ② TSO-C75 as applicable.	170-SIZE H/J	.705 .023	.880 .042	1.005 .055	1.100 .072	1.382 .108	1.630 .151
K	K	Hose with braided blue polyester abrasion cover .	170-SIZE K	.535 .013	.700 .029	.825 .039	1.015 .061	1.200 .083	1.500 .131
F	C/G	2650 Red silicone-fiberglass FIRE SLEEVE enables hose assemblies to meet the fire test requirements of AS1055, TSO-C53a and TSO-C75 as applicable. ③	2650-SIZE	.90 .0133	1.03 .0175	1.15 .0208	1.38 .0275	1.59 .0308	1.90 .0400
M	F	Shrink abrasion sleeve (black), per AS1073 and MIL-I-23053/5. Polyolefin. Temperature limit -67° to +275°F.	2629-SIZE	.490 .0015	.660 .0015	.795 .0021	.997 .0036	1.194 .0056	1.482 .0047
T	A	Tubular abrasion sleeve (black), per AS1291 TFE.	2637-SIZE B	.518 .0034	.685 .0041	.830 .0041	1.020 .0046	1.185 .0056	1.505 .0070
U	L	Spiral abrasion sleeve, black per AS1293, TFE.	2681-SIZE	.522 .0249	.692 .0323	.817 .0380	1.007 .0496	1.192 .0575	1.492 .0733
V	N/A	Tubular abrasion sleeve (translucent), Per MIL-I-7444 Type I Class 1. Vinyl. Temperature limit -90° to +158°F.	2606-SIZE	.518 .0018	.662 .0028	.866 .0043	.991 .0050	1.116 .0058	1.505 .0089
X	N/A	Spiral abrasion Nylon sleeve (black), per AS1294.	2661-SIZE NB	.490 .0020	.660 .0024	.779 .0030	.969 .0038	1.154 .0052	1.460 .0175
Z	E	Shrink abrasion sleeve (transparent) Per MIL-F-23053/11. FEP. Temperature limits -88° to +392°F.	2642-SIZE	.458 .0016	.638 .0038	.773 .0047	.973 .0068	1.168 .0107	1.468 .0109

② Generally meets fire proof ("H" code, AS627) requirements.

③ Generally meets fire proof ("C" code, AS627) requirements.

Coils and Sleeves Size(s) Reference Only

Letter Code	C	F	M	T	U	V	X	Z
Hose Part No.	Internal Support Coil	** Silicone Fiberglass Firesleeve	Polyolefin Shrink Sleeve	TFE Abrasion Sleeve	TFE Spiral Wrap	Vinyl Abrasion Sleeve	Nylon Spiral Wrap	FEP Shrink Sleeve
170-4	2611-7CR	2650-9	2629-28	2637-14B	2681-7	2606-7	2661-16NB	2642-12
170-6	2611-10CR	2650-11	2629-28	2637-19B	2681-11	2606-9	2661-16NB	2642-18
170-8	2611-13CR	2650-13	2629-32	2637-23B	2681-11	2606-12	2661-24NB	2642-20
170-10	2611-17CR	2650-16	2629-48	2637-30B	2681-15	2606-14	2661-24NB	2642-24
170-12	2611-21CR	2650-20	2629-64	2637-35B	2681-15	2606-16	2661-32NB	2642-32
170-16	2611-28CR	2650-24	2629-74	2637-45B	2681-15	2606-22	2661-40NB	2642-41

**Size(s) per HS2650 only for TSO, AS1055 compliance.

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PD4099 9/88

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