

Refrigerant Hose

with Field Attachable Fittings and
Hose Assembly System

- Low Effusion
- Lightweight
- Fast/Easy Field Assembly



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Refrigerant Hose With Field Attachable Fittings

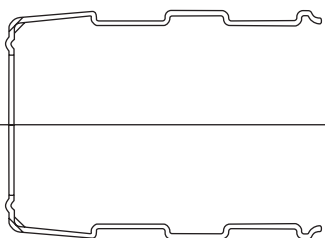
Eaton's Aeroquip® product line offers AE379 refrigerant hose with easy, field-attachable fittings has been developed in response to today's need for an aerospace quality hose assembly that is lightweight, easy to fabricate in the field and requires only simple assembly tools. AE379 is a lightweight, smooth bore hose with a rugged, flexible cover, especially designed for aerospace refrigerant applications. The new field-attachable aluminum, carbon steel and CRES fittings are designed for easy assembly with simple hand-held tools on the workbench or in the aircraft. With the combination of both the AE379 hose and field-attachable fittings, Eaton has developed an Aeroquip product that responds to today's air conditioning aerospace market.

Design Features/Advantages

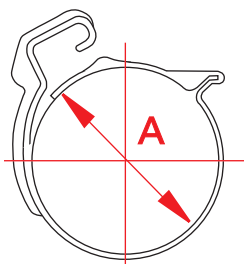
- Low effusion
- Lightweight
- Fast/easy field assembly
- Meets SAE J2064 refrigerant hose specification
- Compatible with R134a, R404, R12 and R22 refrigerants
- 500 psi maximum operating pressure
- Temperature range:
-40°F to +257°F
(-40°C to +125°C)
- Sizes available:
-6, -8, -10, -12 and -16*

*-16 not designed as a field attachable fitting. Contact Eaton Aeroquip Technical Product Support for -16 fitting information.

Cages/Fitting to Hose Attachment



Clips Hose/Cage Connection



CAGE			
Cage Size	Part Number	Hose Description	ID Code
-6	AE60370G	Cages for size -06 hose	150
-8	AE60370H	Cages for size -08 hose	175
-10	AE60370J	Cages for size -10 hose	200
-12	AE60370K	Cages for size -12 hose	245

CLIP HOSE/CAGE				
Cage Size	Part Number	A Ref	Description	ID Code
-6	AE60371G	18 mm	Clips for size -06 hose	150
-8	AE60371H	20.5 mm	Clips for size -08 hose	175
-10	AE60371J	23 mm	Clips for size -10 hose	200
-12	AE60371K	27.5 mm	Clips for size -12 hose	245

Nitrile Material

O-Ring Pilot End Dash Size	*O-Ring Part No. (MIL-P-83461)	O.D.	Cross Section
-6	AE22103-008	0.30	0.07
-8	AE22103-011	0.43	0.07
-10	AE22103-013	0.55	0.07
-12	AE22103-015	0.68	0.07

*O-Ring not included with fitting and required for tube-o end only - information only

HNBR Material

O-Ring Pilot End Dash Size	*O-Ring Part No.	O.D.	Cross Section
-6	AE62666-8	0.30	0.07
-8	AE62666-11	0.43	0.07
-10	AE62666-13	0.55	0.07
-12	AE62666-15	0.68	0.07

*O-Ring not included with fitting and required for tube-o end only - information only

AE379 Multi-Refrigerant Hose — SAE J2064, Type E Class 1



AE379 Refrigerant Hose Performance Data

Hose Size	OD Tube Size (in.) (Size Code)	Hose ID (min.)	Hose OD (max.)	Operating Pressure (psi)	Proof Pressure (psi)	Minimum Burst Pressure (psi)	Minimum Bend Radius	Weight per Foot (lbs.)
-6	3/8 (G)	0.300	0.600	500	1000	2500	2.00	0.09
-8	1/2 (H)	0.400	0.720	500	1000	2500	2.50	0.12
-10	5/8 (J)	0.500	0.800	500	1000	2500	3.00	0.15
-12	3/4 (K)	0.625	0.990	500	750	2500	4.00	0.18
-16	1 (M)	0.868	1.228	500	750	2000	5.00	0.26

Note: All Dimensions in inches.

* Contact Eaton's Aeroquip Technical Product Support for -16 fitting information.

Application: Transportation, refrigeration and air conditioning systems.

Operating Temperature Range: -40°F to +257°F (-40°C to +125°C)

R404a Effusion:
.2 lbs./ft²/yr. at 140°F
(.8 kg/m²/yr. at 60°C)

HFC 134a Effusion:
.50 lbs./ft²/yr. at 176°F
(2.42 kg./m²/yr. at 80°C)

R22 Effusion:
27.7 lbs./ft²/yr. at 158°F
(135 kg./m²/yr. at 70°C)

R407C Effusion:
20 kg./m²/yr. at 80°C

Moisture Ingression:
.08 gm./in²/yr. (.013/cm²/yr)

Features

- Internal polyamide veneer tube
- Synthetic-rubber backing layer
- Stabilized, synthetic braided reinforcement
- Chlorobutyl rubber cover

Benefits

- Excellent effusion resistance
- Maximum resistance to moisture ingress
- Extended service performance
- Superior flexibility
- Assured coupling integrity, exceeds SAE J2064 performance
- Non-age sensitive

Refrigerant Compatibility Chart of Refrigerant Hoses

Refrigerant	A379 Hose
R-12	Yes
R-22	Yes
R-134a	Yes
R-502	Yes
MP39	Yes
MP66	Yes
R404a	Yes

Lubricant Compatibility Chart

Lubricant	A379 Hose
Mineral Oil	Yes
PAG	Yes
Ester Oil	Yes
Alkylbenzene	Yes

WARNING:

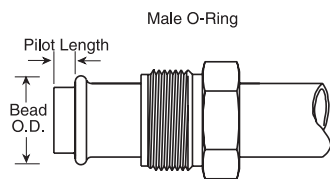
AE379 Clip System has been designed and engineered to work EXCLUSIVELY with Aeroquip hose.

For information regarding other refrigerants and lubricants, please contact Eaton customer service at 517-787-8121.

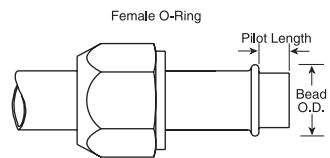
End Connections

How To Identify O-Ring Pilot Thread Sizes

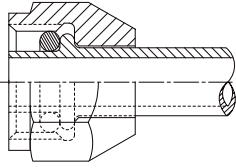
This connection is common to air conditioning systems, both in aircraft, vehicles, and commercial applications. Both the male and female halves of the connections have a pilot, either long or short. The seal takes place by compressing an O-Ring adjacent to the bead of the tube. The threads hold the connection together mechanically.



		Male Thread O.D. (Inch)			Female Thread I.D. (Inch)		
Inch Size	Dash Size	Nominal Thread	Fraction	Decimal	Nominal Thread	Fraction	Decimal
3/8	-6	5/8 - 18	5/8	0.62	5/8 - 18	9/16	0.57
1/2	-8	3/4 - 18	3/4	0.75	3/4 - 16	11/16	0.69
5/8	-10	7/8 - 18	7/8	0.87	7/8 - 14	13/16	0.81
3/4	-12	1 1/16 - 16	1 - 1/16	1.06	1 1/16 - 14	1	0.99



		Long Pilot		Short Pilot	
Inch Size	Nominal Tube Size	Bead O.D. (Inch)	Pilot Length	Bead O.D. (Inch)	Pilot Length
3/8	-6	.52	.28	.52	.19
1/2	-8	.64	.39	.64	.19
5/8	-10	.77	.39	.77	.19
3/4	-12	.91	.39	.91	.19



Fitting Dimensions

Tube-O End Short Pilot	Dash Size	*Nipple Assembly	A Ref.	C Ref.	Norm. D	Min. H	**R	Thread T	Hex Y Ref.	Norm. Wt. (lbs.) w/Cage & Clip
	-6	AE61120G	2.86	.29	—	.213	—	.6250-18UNF-2B	.75	.128
	-8	AE61120H	3.18	.38	—	.311	—	.7500-16UNF-2B	.88	.192
	-10	AE61120J	3.19	.44	—	.370	—	.8750-14UNF-2B	1.06	.298
	-12	AE61120K	3.68	.57	—	.465	—	1.0625-14UNS-2B	1.25	.483
	-6	AE61121G	3.61	.29	.670	.213	.750	.6250-18UNF-2B	.75	.145
	-8	AE61121H	3.94	.38	.730	.311	1.000	.7500-16UNF-2B	.88	.214
	-10	AE61121J	4.36	.44	1.190	.370	1.250	.8750-14UNF-2B	1.06	.342
	-12	AE61121K	5.33	.57	1.470	.465	1.500	1.0625-14UNS-2B	1.25	.538
	-6	AE61122G	3.32	.29	1.380	.213	.750	.6250-18UNF-2B	.75	.150
	-8	AE61122H	3.77	.38	1.620	.311	1.000	.7500-16UNF-2B	.88	.224
	-10	AE61122J	4.22	.44	1.890	.370	1.250	.8750-14UNF-2B	1.06	.358
	-12	AE61122K	4.74	.57	2.560	.465	1.500	1.0625-14UNS-2B	1.25	.555

* Nipple assembly part number does not include cage, clips or O-Ring for the tube-o end.

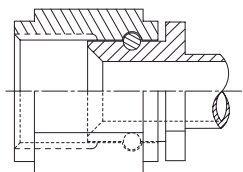
** Radius of elbow is measured to centerline.

Material — Carbon Steel

Hose Assemblies

Tube-O End Short Pilot IMACA 305	Dash Size	Assembly Base No.	Nipple A Part No.	Fitting B Part No.
	-6 thru -12	AC320	AE61120	AE61120
	-6 thru -12	AC321	AE61120	AE61121
	-6 thru -12	AC322	AE61120	AE61122
	-6 thru -12	AC323	AE61121	AE61121
	-6 thru -12	AC324	AE61121	AE61122
	-6 thru -12	AC325	AE61122	AE61122

Carbon Steel 45° Flared Per SAE J512



Fitting Dimensions

45° Flared Per SAE J512	Dash Size	*Nipple Assembly	A Ref.	C Ref.	Norm. D	Min. H	**R	Thread T	Hex Y Ref.	Norm. Wt. (lbs.) w/Cage & Clip
	-6	AE61126G	2.45	.43	—	.213	—	.6250-18UNF-2B	.75	.179
	-8	AE61126H	2.52	.44	—	.311	—	.7500-16UNF-2B	.88	.274
	-10	AE61126J	2.62	.52	—	.370	—	.8750-14UNF-2B	1.00	.435
	-12	AE61126K	2.63	.57	—	.465	—	1.0625-14UNS-2B	1.25	.673
	-6	AE61127G	2.61	.42	.394	.213	.500	.6250-18UNF-2B	.75	.130
	-8	AE61127H	2.97	.45	.547	.311	.750	.7500-16UNF-2B	.88	.195
	-10	AE61127J	3.08	.49	.634	.370	1.000	.8750-14UNF-2B	1.06	.321
	-12	AE61127K	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	-6	AE61128G	2.51	.42	.850	.213	.500	.6250-18UNF-2B	.75	.137
	-8	AE61128H	2.74	.45	1.091	.311	.625	.7500-16UNF-2B	.88	.204
	-10	AE61128J	3.09	.49	1.193	.370	.750	.8750-14UNF-2B	1.00	.347
	-12	AE61128K	3.68	.72	1.799	.465	1.250	1.0625-14UNS-2B	1.25	.560

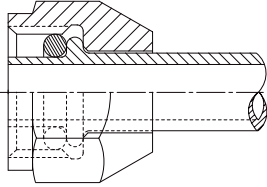
* Nipple assembly part number does not include cage or clips.

** Radius of elbow is measured to centerline.

Material — Carbon Steel

Hose Assemblies

45° Flared Per SAE J512	Dash Size	Assembly Base No.	Nipple A Part No.	Fitting B Part No.
	-6 thru -12	AC350	AE61126	AE61126
	-6 thru -12	AC351	AE61126	AE61127
	-6 thru -12	AC352	AE61126	AE61128
	-6 thru -12	AC353	AE61127	AE61127
	-6 thru -12	AC354	AE61127	AE61128
	-6 thru -12	AC355	AE61128	AE61128



Fitting Dimensions

Tube-O End Short Pilot IMACA 305	Dash Size	*Nipple Assembly	A Ref.	C Ref.	Norm. D	Min. H	**R	Thread T	Hex Y Ref.	Norm. Wt. (lbs.) w/Cage & Clip
	-6	AE60372G	4.37	.29	—	.213	—	.6250-18UNF-2B	.75	.063
	-8	AE60372H	4.96	.38	—	.311	—	.7500-16UNF-2B	.88	.090
	-10	AE60372J	5.57	.44	—	.370	—	.8750-14UNF-2B	1.06	.138
	-12	AE60372K	6.65	.57	—	.465	—	1.0625-14UNS-2B	1.25	.208
	-6	AE60373G	3.96	.29	1.082	.213	.750	.6250-18UNF-2B	.75	.063
	-8	AE60373H	4.47	.38	1.286	.311	1.000	.7500-16UNF-2B	.88	.090
	-10	AE60373J	5.00	.44	1.512	.370	1.250	.8750-14UNF-2B	1.06	.138
	-12	AE60373K	5.88	.57	2.022	.465	1.500	1.0625-14UNS-2B	1.25	.208
	-6	AE60374G	3.32	.29	1.380	.213	.750	.6250-18UNF-2B	.75	.063
	-8	AE60374H	3.77	.38	1.620	.311	1.000	.7500-16UNF-2B	.88	.090
	-10	AE60374J	4.22	.44	1.890	.370	1.250	.8750-14UNF-2B	1.06	.138
	-12	AE60374K	4.74	.57	2.560	.465	1.500	1.0625-14UNS-2B	1.25	.208

* Nipple assembly part number does not include cage, clips or O-Ring for the tube-o end.

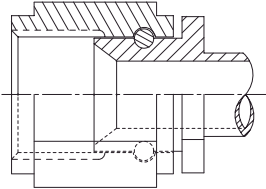
** Radius of elbow is measured to centerline.

Material — 6061 Aluminum

Hose Assemblies

Tube-O End Short Pilot IMACA 305	Dash Size	Assembly Base No.	Nipple A Part No.	Fitting B Part No.
	-6 thru -12	AC310	AE60372	AE60372
	-6 thru -12	AC311	AE60372	AE60373
	-6 thru -12	AC312	AE60372	AE60374
	-6 thru -12	AC313	AE60373	AE60373
	-6 thru -12	AC314	AE60373	AE60374
	-6 thru -12	AC315	AE60374	AE60374

Aluminum 37° Flared Per AS4395



Fitting Dimensions

37° Flared Per AS4395	Dash Size	*Nipple Assembly	A Ref.	C Ref.	Norm. D	Min. H	**R	Thread T	Hex Y Ref.	Norm. Wt. (lbs.) w/Cage & Clip
	-6	AE61129G	2.089	.38	—	.213	—	.5625-18UNJF-3B	.69	.063
	-8	AE61129H	2.187	.44	—	.311	—	.7500-16UNJF-3B	.88	.096
	-10	AE61129J	2.239	.50	—	.370	—	.8750-14UNJF-3B	1.00	.146
	-12	AE61129K	2.246	.57	—	.465	—	1.0625-12UNJ-3B	1.25	.218
	-6	AE61130G	3.96	.38	1.082	.213	.750	.5625-18UNJF-3B	.69	.063
	-8	AE61130H	4.47	.44	1.286	.311	1.000	.7500-16UNJF-3B	.88	.096
	-10	AE61130J	5.00	.50	1.512	.370	1.250	.8750-14UNJF-3B	1.00	.146
	-12	AE61130K	5.88	.57	2.022	.465	1.500	1.0625-12UNJ-3B	1.25	.218
	-6	AE61131G	3.32	.38	1.380	.213	.750	.5625-18UNJF-3B	.69	.063
	-8	AE61131H	3.77	.44	1.620	.311	1.000	.7500-16UNJF-3B	.88	.096
	-10	AE61131J	4.22	.50	1.890	.370	1.250	.8750-14UNJF-3B	1.00	.146
	-12	AE61131K	4.74	.57	2.560	.465	1.500	1.0625-12UNJ-3B	1.25	.218

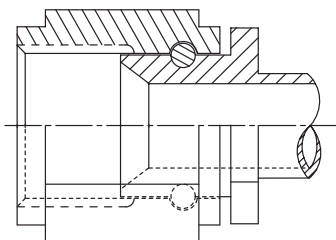
* Nipple assembly part number does not include cage, clips or O-Ring for the 37° flared end.

** Radius of elbow is measured to centerline.

Material — 6061 Aluminum

Hose Assemblies

37° Flared Per AS4395	Dash Size	Assembly Base No.	Nipple A Part No.	Fitting B Part No.
	-6 thru -12	AC330	AE61129	AE61129
	-6 thru -12	AC331	AE61129	AE61130
	-6 thru -12	AC332	AE61129	AE61131
	-6 thru -12	AC333	AE61130	AE61130
	-6 thru -12	AC334	AE61130	AE61131
	-6 thru -12	AC335	AE61131	AE61131



Fitting Dimensions

37° Flared Per AS4395	Dash Size	*Nipple Assembly	A Ref.	C Ref.	Norm. D	Min. H	**R	Thread T	Hex Y Ref.	Norm. Wt. (lbs.) w/Cage & Clip
	-6	AE61431G	2.089	.38	—	.213	—	.5625-18UNJF-3B	.69	.151
	-8	AE61431H	2.187	.44	—	.311	—	.7500-16UNJF-3B	.88	.241
	-10	AE61431J	2.239	.50	—	.370	—	.8750-14UNJF-3B	1.00	.381
	-12	AE61431K	2.246	.57	—	.465	—	1.0625-12UNJ-3B	1.25	.585
	-6	AE62147G	3.96	.38	1.082	.213	.750	.5625-18UNJF-3B	.69	.151
	-8	AE62147H	4.47	.44	1.286	.311	1.000	.7500-16UNJF-3B	.88	.241
	-10	AE62147J	5.00	.50	1.512	.370	1.250	.8750-14UNJF-3B	1.00	.381
	-12	AE62147K	5.88	.57	2.022	.465	1.500	1.0625-12UNJ-3B	1.25	.585
	-6	AE62142G	3.32	.38	1.380	.213	.750	.5625-18UNJF-3B	.69	.151
	-8	AE62142H	3.77	.44	1.620	.311	1.000	.7500-16UNJF-3B	.88	.241
	-10	AE62142J	4.22	.50	1.890	.370	1.250	.8750-14UNJF-3B	1.00	.381
	-12	AE62142K	4.74	.57	2.560	.465	1.500	1.0625-12UNJ-3B	1.25	.585

* Nipple assembly part number does not include cage or clips.

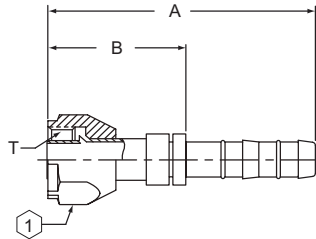
** Radius of elbow is measured to centerline.

Material — CRES 304L/321

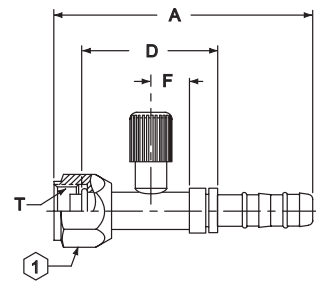
Hose Assemblies

37° Flared Per AS4395	Dash Size	Assembly Base No.	Nipple A Part No.	Fitting B Part No.
	-6 thru -12	AC340	AE61431	AE61431
	-6 thru -12	AC341	AE61431	AE62147
	-6 thru -12	AC342	AE61431	AE62142
	-6 thru -12	AC343	AE62147	AE62147
	-6 thru -12	AC344	AE62147	AE62142
	-6 thru -12	AC345	AE62142	AE62142

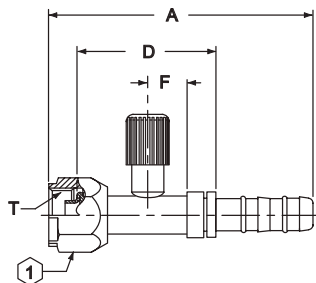
Fittings — Carbon Steel



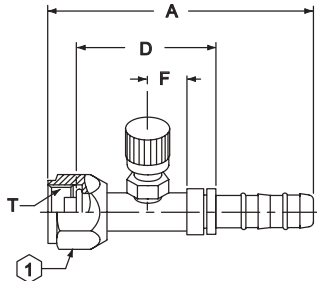
Straight - Female O-Ring, Metric Thread (long pilot)/Carbon Steel							
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62507 - 0808	M20 x 1.5	8	3.20	1.66	—	—	0.94
AE62507 - 0810	M20 x 1.5	10	3.21	1.66	—	—	0.94
AE62507 - 1212	M27 x 2	12	4.25	2.67	—	—	1.25



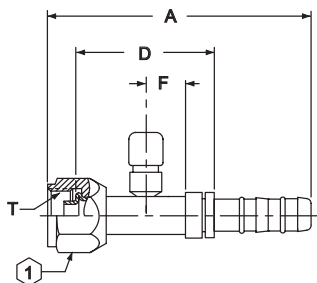
Straight - Female O-Ring (short pilot) with R134a Low Side Port/Carbon Steel							
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62508 - 1010	7/8 - 14	10	4.24	2.25	0.63	—	1.06
AE62508 - 1012	7/8 - 14	12	4.27	2.2	0.63	—	1.06
AE62508 - 1212	1 - 1/16 - 14	12	4.58	2.43	0.54	—	1.25



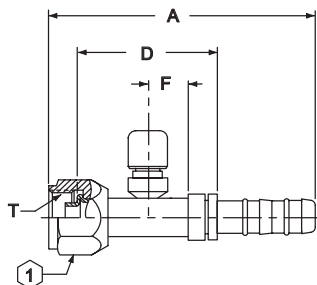
Straight - Female O-Ring (short pilot) with R134a High Side Port/Carbon Steel							
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62509 - 0606	5/8 - 18	6	3.91	2.10	0.63	—	0.75
AE62509 - 0806	3/4 - 16	6	4.06	2.26	0.63	—	0.88
AE62509 - 0808	3/4 - 16	8	4.09	2.16	0.63	—	0.88
AE62509 - 0810	3/4 - 16	10	4.09	2.16	0.63	—	0.88



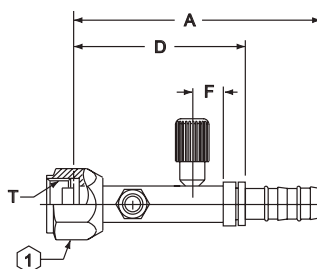
Straight - Female O-Ring (long pilot) with Switch Port (7/16 - 20 thd)/Carbon Steel							
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62510 - 0808	3/4 - 16	8	4.09	2.16	0.79	—	0.88
AE62510 - 1010	7/8 - 14	10	4.25	2.25	0.79	—	1.06
AE62510 - 1012	7/8 - 14	12	4.27	2.25	0.79	—	1.06
AE62510 - 1212	1 - 11/16 - 14	12	4.86	2.71	0.79	—	1.25



Straight - Female O-Ring (long pilot) with Switch Port (M10 x 1.25)/Carbon Steel							
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62511 - 1010	7/8 - 14	10	4.25	2.25	0.63	—	1.06

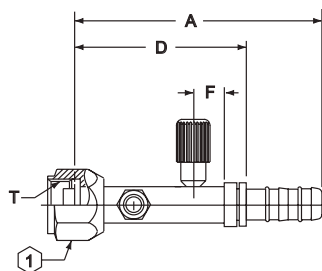


Straight - Female O-Ring (long pilot) with Switch Port (M12 x 1.25)/Carbon Steel							
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62512 - 1010	7/8 - 14	10	4.25	2.25	0.63	—	1.06
AE62512 - 1012	7/8 - 14	12	4.27	2.25	0.63	—	1.06
AE62512 - 1212	1 - 1/16 - 14	12	4.86	2.71	0.54	—	1.25



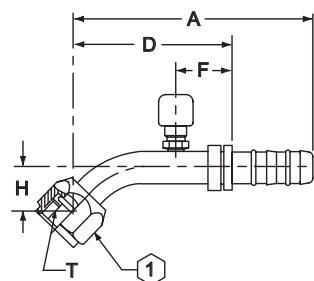
Straight - Female O-Ring (long pilot) with R134a High Side Port and Female Switch Connection, (1/8 - 27 thread)/Carbon Steel							
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62513 - 0808	3/4 - 16	8	5.16	3.62	0.63	—	0.88
AE62513 - 0810	3/4 - 16	10	5.54	3.62	0.63	—	0.88

Fittings — Carbon Steel



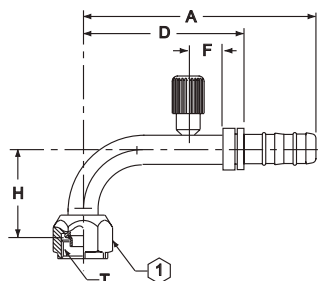
Straight - Female O-Ring (short pilot), with R134a Low Side Port and Female Switch Connection, (1/8 - 27 thread)/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62514 - 0808	7/8 - 16	12	5.30	3.72	0.63	—	1.06



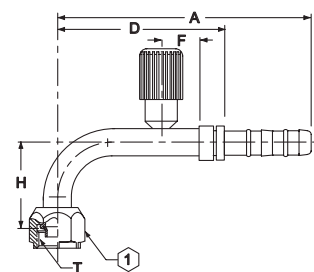
45° Female O-Ring (long pilot) with Switch Port (7/16 - 20 thread)/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62515 - 0810	3/4 - 16	10	4.61	2.58	0.63	.80	0.88
AE62515 - 1012	7/8 - 14	12	4.73	2.67	0.63	0.89	1.06
AE62515 - 0808	3/4 - 16	8	4.43	2.40	0.63	0.73	0.88
AE62515 - 1010	7/8 - 14	10	5.00	2.97	0.63	1.19	1.06



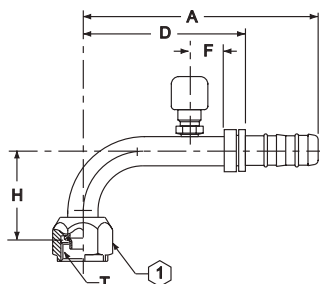
90° Female O-Ring (short pilot) with R134a Low Side Port/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62516 - 1010	7/8 - 14	10	4.88	3.33	0.63	1.89	1.06
AE62516 - 1012	7/8 - 14	12	4.83	3.25	0.63	1.89	1.06
AE62516 - 1212	1 - 1/16 - 14	12	5.10	3.52	0.63	2.56	1.25



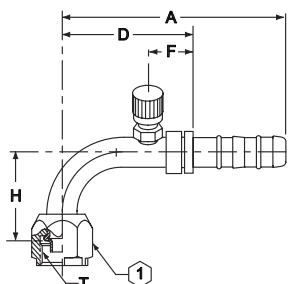
90° Female O-Ring (short pilot) with R134a High Side Port/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62517 - 0606	5/8 - 18	6	4.35	2.82	0.63	1.38	0.75
AE62517 - 0808	3/4 - 16	8	4.61	3.07	0.69	1.62	0.88
AE62517 - 0810	3/4 - 16	10	4.53	2.98	0.69	1.62	0.88



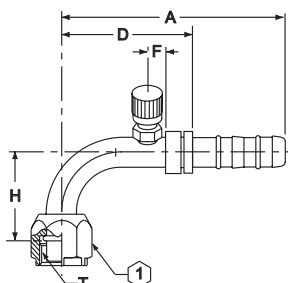
90° Female O-Ring (long pilot) with Switch Port (7/16 - 20 thread)/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62518 - 0808	3/4 - 16	8	4.61	2.59	0.69	1.62	0.88
AE62518 - 1010	7/8 - 14	10	4.80	2.77	0.63	1.93	1.06
AE62518 - 0606	5/8 - 18	6	4.35	2.82	0.69	1.35	0.75
AE62518 - 0810	3/4 - 16	10	4.62	2.59	0.69	1.62	0.88
AE62518 - 1012	7/8 - 14	12	4.82	2.77	0.63	1.93	1.06



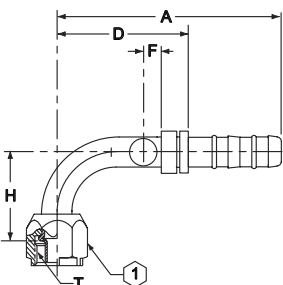
90° Elbow - Female O-Ring (short pilot) with Switch Port (7/16 - 20 thread)/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62519 - 1010	7/8 - 14	10	4.80	3.25	0.79	1.89	1.06
AE62519 - 1012	1 - 1/16 - 14	12	5.08	3.50	0.79	2.56	1.25



90° Female O-Ring (long pilot) with Charge Port (7/16 - 20 thread) - 45° Port Rotation/Carbon Steel

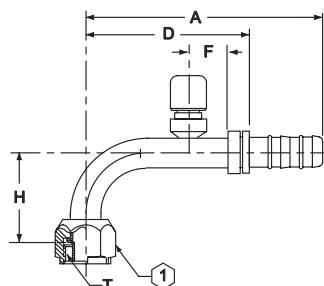
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62520 - 1012	7/8 - 14	12	4.06	2.48	0.50	1.69	1.06



90° Female O-Ring (long pilot) with Switch Port (7/16 - 20 thread) - 90° Port Rotation/Carbon Steel

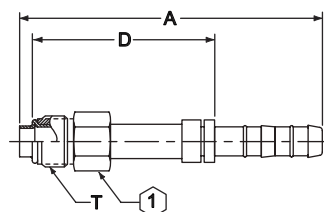
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62521 - 1012	7/8 - 14	10	4.03	2.48	0.50	1.69	1.06

Fittings — Carbon Steel



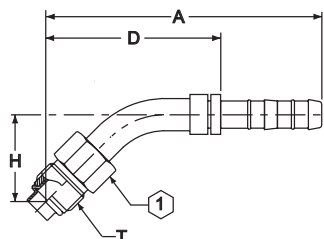
90° Female O-Ring (long pilot) with Switch Port (M12 x 1.25)/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62522 - 1010	7/8 - 14	10	4.80	3.25	0.79	1.89	1.06
AE62522 - 1012	7/8 - 14	12	4.83	3.25	0.79	1.89	1.06
AE62522 - 1212	1 - 1/16 - 14	12	5.08	3.50	0.54	2.56	1.25



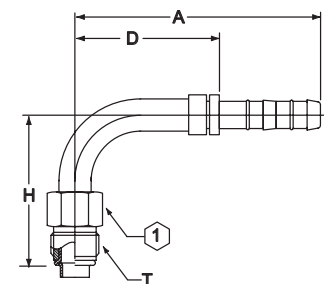
Straight Male O-Ring (short pilot)/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62523 - 0606	5/8 - 18	6	3.41	1.70	—	—	0.62
AE62523 - 0608	5/8 - 18	8	3.43	1.70	—	—	0.62
AE62523 - 0808	3/4 - 18	8	4.37	2.64	—	—	0.75
AE62523 - 1010	7/8 - 18	10	3.66	1.92	—	—	0.88
AE62523 - 1012	7/8 - 18	12	3.68	1.92	—	—	0.88
AE62523 - 1212	1 - 1/16 - 16	12	3.68	1.92	—	—	1.06



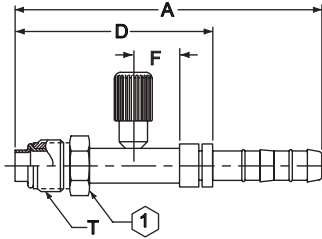
Male O-Ring (short pilot) 45 Elbows/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62524 - 0606	5/8 - 18	6	3.99	2.47	—	0.94	0.62
AE62524 - 0808	3/4 - 18	8	4.59	2.83	—	1.20	0.75
AE62524 - 1010	7/8 - 18	10	4.65	3.10	—	1.46	0.88
AE62524 - 0608	5/8 - 18	8	4.01	2.47	—	0.94	0.62



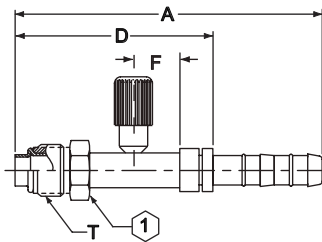
Male O-Ring (short pilot) 90 Elbows/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62525 - 0606	5/8 - 18	6	3.33	1.80	—	1.77	0.62
AE62525 - 0608	5/8 - 18	8	3.34	1.80	—	1.77	0.62
AE62525 - 0808	3/4 - 18	8	3.77	2.23	—	2.31	0.75
AE62525 - 0810	3/4 - 18	10	3.78	2.23	—	2.31	0.75
AE62525 - 1012	7/8 - 18	12	4.24	2.67	—	2.45	0.88
AE62525 - 1212	1 - 1/16 - 16	12	4.22	2.64	—	2.79	1.06
AE62525 - 1010	7/8 - 18	10	4.22	2.67	—	2.453	0.88



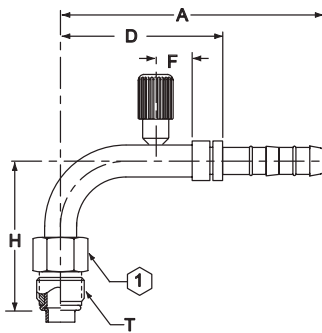
Straight Male O-Ring (short pilot) With R134a Low Side Port/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62447J	7/8 - 18	10	4.43	2.70	0.63	—	0.88
AE62447 - 1012	7/8 - 18	12	4.46	2.70	0.63	—	0.88



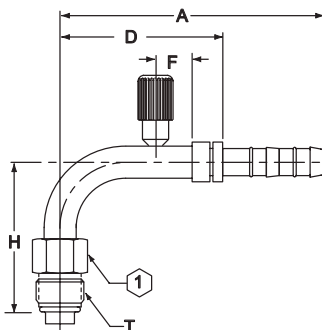
Straight Male O-Ring (short pilot) With R134a High Side Port/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62448G	5/8 - 18	6	4.18	2.47	0.63	—	0.62
AE62448H	3/4 - 18	8	4.58	2.85	0.63	—	0.75
AE62448J	7/8 - 18	10	4.34	2.61	0.63	—	0.88



90° Elbow Male O-Ring (short pilot) With R134a High Side Port/Carbon Steel

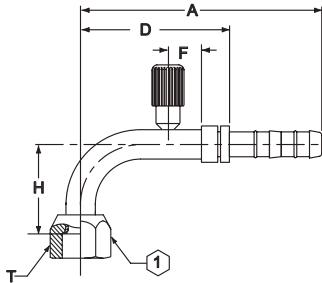
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62526 - 0606	5/8 - 18	6	4.34	2.82	0.63	1.75	0.62
AE62526 - 0808	3/4 - 18	8	4.61	3.07	0.63	2.31	0.75
AE62526 - 1010	7/8 - 18	10	4.81	3.25	0.63	2.34	0.88



90 Elbow Male O-Ring (short pilot) With R134a Low Side Port/Carbon Steel

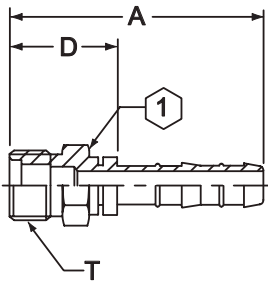
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62527 - 1010	7/8 - 18	10	4.81	3.25	0.63	2.34	0.88
AE62527 - 1012	7/8 - 18	12	4.81	3.25	0.63	2.34	0.88

Fittings — Carbon Steel



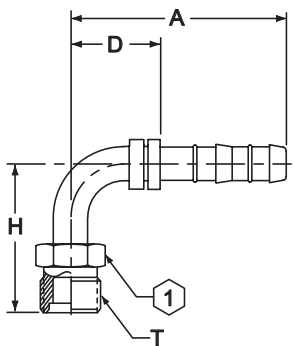
Female SAE 45° With High Side Charge Port (R134a) - 90° Elbow/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62528 - 0606	5/8 - 18	6	4.35	2.82	0.63	1.28	0.75
AE62528 - 0808	3/4 - 16	8	4.61	3.07	0.63	1.53	0.88
AE62528 - 1010	7/8 - 14	10	4.80	3.25	0.63	1.84	0.88



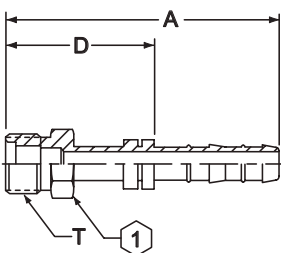
Male MIO (Male Insert O-Ring) Straights/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62529 - 0606	5/8 - 18	6	3.36	1.83	—	—	0.69
AE62529 - 0808	3/4 - 16	8	2.69	1.15	—	—	0.81
AE62529 - 1010	7/8 - 14	10	2.90	1.35	—	—	0.94
AE62529 - 1012	7/8 - 14	12	4.11	2.50	—	—	0.94
AE62529 - 1212	11/16 - 14	12	4.29	2.71	—	—	1.25



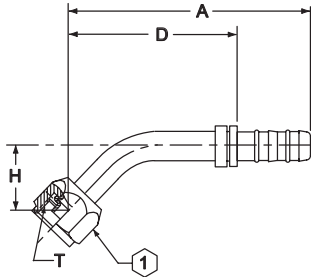
Male MIO (Male Insert O-Ring) 90° Elbows/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62530 - 0606	5/8 - 18	6	2.50	0.98	—	1.44	0.69
AE62530 - 0808	3/4 - 16	8	2.74	1.20	—	1.82	0.81
AE62530 - 1010	7/8 - 14	10	3.09	1.54	—	2.13	0.94
AE62530 - 0810	3/4 - 16	10	2.75	1.20	—	1.82	0.81



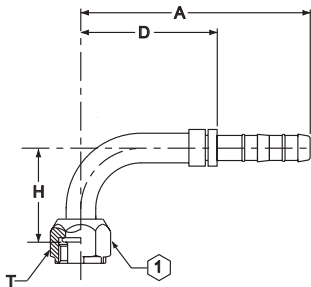
Straight Male Insert O-Ring (rigid) Metric Thread/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62531 - 0810	M20 x 1.5	10	3.62	2.07	0.69	—	0.88



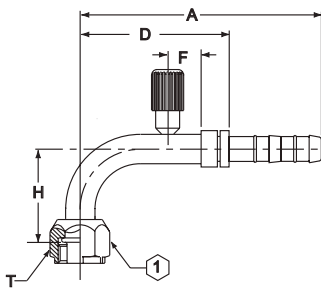
45° Female O-Ring (long pilot, metric thread)/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62532 - 1212	M27 x 2	12	4.74	3.17	—	22.4	1.25



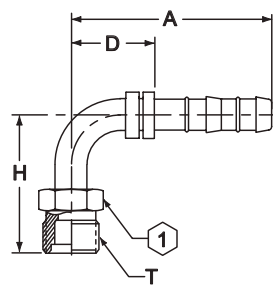
90° Female O-Ring (long pilot) Metric Thread/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62533 - 0808	M20 x 1.5	8	3.77	2.23	—	1.62	0.94
AE62533 - 0810	M20 x 1.5	10	3.78	2.23	—	1.62	0.94
AE62533 - 0806	M20 x 1.5	6	3.75	2.23	—	1.62	0.94
AE62533 - 1212	M27 x 2	12	4.74	3.16	—	2.56	1.25



90° Female O-Ring (long pilot) Metric Thread With High Side Charge Port (R134a)/Carbon Steel

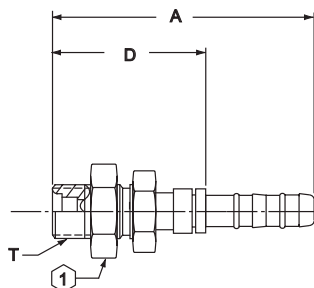
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62534 - 0808	M20 x 1.5	8	4.52	2.98	0.69	1.62	0.94



90° Male O-Ring (rigid) Metric Thread/Carbon Steel

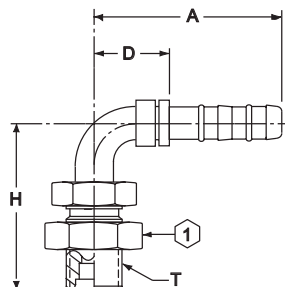
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62535 - 0810	M20 x 1.5	8	2.75	1.20	—	1.82	0.88

Fittings — Carbon Steel



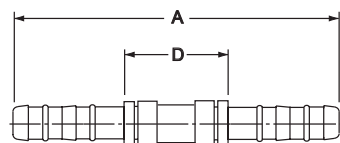
Straight Bulkhead/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62536 - 0606	5/8 - 18	6	3.69	2.16	—	—	0.94
AE62536 - 0808	3/4 - 16	8	3.93	2.39	—	—	1.00
AE62536 - 1010	7/8 - 14	10	4.49	2.94	—	—	1.13



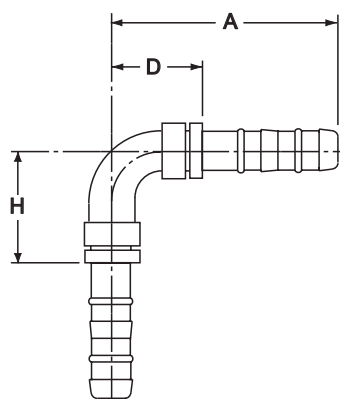
90° Male Bulkhead/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62537 - 0606	5/8 - 18	6	2.50	0.98	—	2.15	0.94
AE62537 - 0808	3/4 - 16	8	2.74	1.20	—	2.61	1.00
AE62537 - 1010	7/8 - 14	10	3.08	1.53	—	3.26	1.13
AE62537 - 1012	7/8 - 14	12	3.11	1.53	—	3.26	1.13
AE62537 - 1212	1 - 1/16 - 14	12	3.69	2.11	—	3.78	1.38



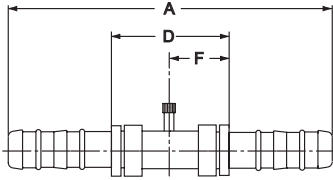
Straight Spicer/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62538 - 0606	—	6	4.63	1.58	—	—	—
AE62538 - 0808	—	8	4.76	1.68	—	—	—
AE62538 - 1010	—	10	5.68	2.58	—	—	—
AE62538 - 1212	—	12	4.72	1.57	—	—	—



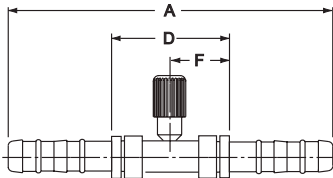
90° Spicer/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62539 - 0606	—	6	2.71	1.18	—	2.71	—
AE62539 - 0808	—	8	2.98	1.43	—	2.98	—
AE62539 - 1010	—	10	3.08	1.53	—	3.08	—
AE62539 - 1212	—	12	3.68	2.11	—	3.68	—



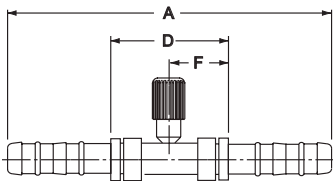
Splicer With Switch Port (7/16 - 20 thread)/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62540 - 0606	—	6	5.41	2.36	1.18	—	—
AE62540 - 0808	—	8	5.61	2.52	1.26	—	—
AE62540 - 1010	—	10	5.54	2.44	1.22	—	—
AE62540 - 1212	—	12	5.60	2.44	1.22	—	—



Splicer With High Side R134a Port/Carbon Steel

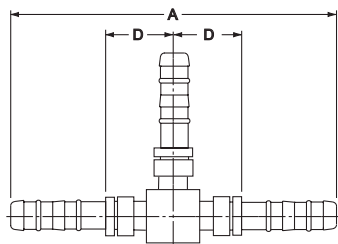
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62541 - 0606	—	6	5.41	2.36	1.18	—	—
AE62541 - 0808	—	8	5.61	2.52	1.26	—	—
AE62541 - 1010	—	10	5.62	2.52	1.26	—	—
AE62541 - 1212	—	12	5.67	2.52	1.26	—	—



Splicer With R134a Low Side Port/Carbon Steel

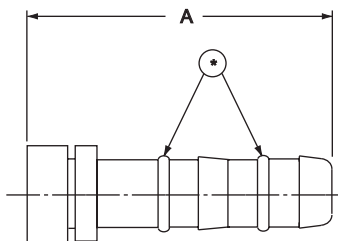
Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62542 - 1010	—	10	5.54	2.44	1.22	—	—
AE62542 - 1212	—	12	5.60	2.44	1.22	—	—

Fittings — Carbon Steel



"T" Splicer - 3 Hose Connector/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
AE62543 - 080808	—	8	5.48	2.40	—	—	—
AE62543 - 101010	—	10	5.62	2.52	—	—	—
AE62543 - 121212	—	12	5.67	2.52	—	—	—
AE62543 - 101212	—	10 x 12 x 12	5.67	2.52	—	—	—
AE62543 - 060808	—	6 x 8 x 8	5.48	2.40	—	—	—

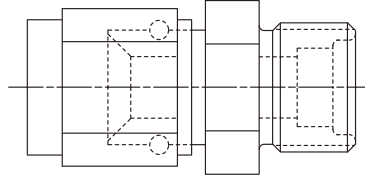


Lifesave Braze Nipple/Carbon Steel

Part Number	Thread "T"	Hose Size	A Ref
AE62544 - 0606	—	6	2.01
AE62544 - 0608	—	8	2.02
AE62544 - 0808	—	8	2.02
AE62544 - 0810	—	10	2.03
AE62544 - 1010	—	10	2.03
AE62544 - 1012	—	12	2.06
AE62544 - 1212	—	12	2.11

Female Flared To Male Tube-O Adapter

45° Flared Per SAE J512	37° Flared Per AS4395
AE62233G	AE62234G
AE62233H	AE62234H
AE62233J	AE62234J
AE62233K	AE62234K



How To Complete Hose Assembly Part Numbers

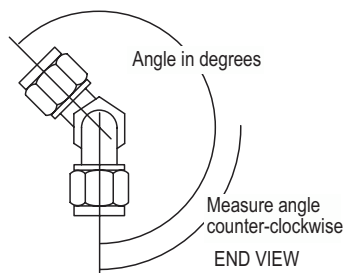
The part numbers shown here represent standard configurations with materials, markings and cleaning requirements conforming to the related military or aerospace standards as they apply. If your requirements differ from these standards, the hose assemblies you order will be assigned new customer specific part numbers by Eaton.

Example of Eaton Part Number

AC310H0242

Base Part Number Hose _____
Size Code _____
Length of Assembly in Inches _____
Fraction of an Inch in Eighths _____

On assemblies with an elbow fitting on each end, measure the orientation angle as shown to the left. Add the angle measurement as a suffix to the base part number. In all cases, the angle should be expressed in 3 digits. For example, 90° should be written 090. If the angle desired is 0°, specify 000.



Example of Eaton Part Number

AC315H0242-270

Base Part Number _____
Hose Size Code _____
Length of Assembly in Inches _____
Fraction of an Inch in Eighths _____
Orientation Angle in 1° increments _____

This part number format is consistent with the SAE AS part number format.

Hose Dash Size	6	8	10	12	16
Letter Code	G	H	J	K	M

AE379 Refrigerant Hose Assembly Instructions

STEP 1: Cut the hose

Cut the hose to proper length with an appropriate cutting tool. Eaton's Aeroquip hand-held hose cutter (FT1356) has been specially designed for cutting all non-wire reinforced hose, such as AE379 multi-refrigerant hose. Be sure the cut is made square to the hose length.

STEP 2: Slip on two clips

Install two proper-sized clips onto the cut end of the hose. Orientation of the clips does not affect the performance of the connection. However, for ease of assembly, both clips should have the same orientation.

NOTE: Failure to slide the clips over the hose at this time will require the clips to be stretched over the hose or fitting later. This may permanently damage the clip.



STEP 3: Oil the nipple

Lubricate the nipple with a generous amount of the refrigeration or A/C system's compressor lubricating oil. This MUST be done to lower the force of nipple insertion.

STEP 4: Insert the nipple into the hose

Insert the nipple into the hose. To ensure that the nipple is fully inserted, check the gap between the cut end of the hose and the shoulder on the nipple. Care should be taken to avoid kinking or other damage to the hose during insertion.

NOTE: Be sure to wipe excess oil from the nipple and hose.



STEP 5: Snap on the cage

Snap the cage into the groove on the nipple. The arms should extend over the hose length. When the cage has been correctly installed in the cage groove, the cage will be able to rotate in the groove. This step MUST be performed to ensure:

1. The clips will be located over the O-rings on the nipple
2. The connection will be compatible with the connection's pressure rating.



STEP 6: Slide the clips

Slide the clips over the cage arms and into the channels on each arm.



STEP 7: Close the clip

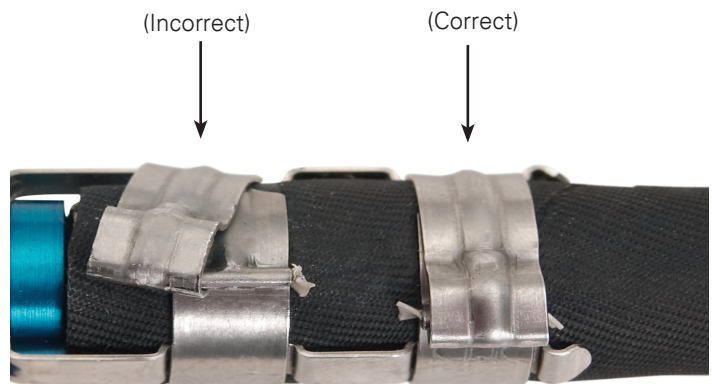
Use the Aeroquip FT1357 pliers to close the clips. The pliers should be positioned squarely on the clip connection points and should remain square during the closing of the clip.



Nose of the pliers should be firmly seated under the assembly bump and lock latch.



For easiest assembly, the clasp should be closed between the cage arms.



Aeroquip AE379 Refrigerant Hose components should not be reused.

CAUTION

Failure to follow these assembly instructions and/or the use of Aeroquip hose with fittings supplied by other manufacturers, may result in unreliable and unsafe hose assemblies, which may result in sudden or unintended escape of refrigerant gases. Personal injury and/or violations of EPA regulations may occur as a consequence.

Eaton recommends adherence to all guidelines, including EPA guidelines, concerning the service of refrigerant systems.

Assembly Tools

Pliers/Connecting Tool



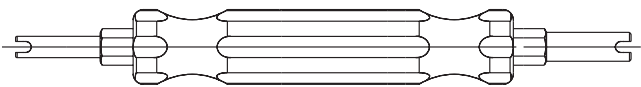
Part Number	Description
FT1357	Connecting Tool

Hose Cutter



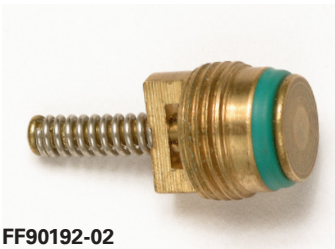
Part Number	Description
FT1356	Hose Cutter
FT1356-2-1	Replacement Blade

Core Tool

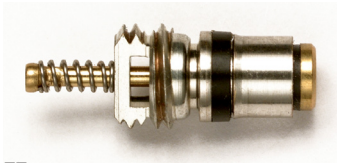


Part Number	Description
42-05-100	Core Tool
FF90192-02	High Side Core*
FF90192-01	Low Side Core*
FF90193-02	High Side Cap
FF90193-01	Low Side Cap
FF9872-04	Cap for 7/16 - 20 Thread Port

*For Eaton High Flow Charge Ports only.



FF90192-02



FF90192-01

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