

Hose Ends - Field Attachable

Table of Contents

009 'B' Series	K-2
057 'B' Series	K-3 thru K-4
100 'B' Series	K-5 thru K-7
105 'B' Series	K-8
338 'B' Series	K-9 thru K-11
069 'D' Series	K-12 thru K-13
'K' Series	K-14
039 'K' Series	K-15
104 'N' Series	K-16 thru K-18
213 'N' Series	K-19 thru K-21
247 'N' Series	K-22 thru K-26

425 'N' Series	K-27 thru K-29
436 'N' Series	K-30 thru K-31
E-Z Clip System	
End Connections & O-Rings	K-32 thru K-33
Hose Ends	K-34 thru K-58
Cages, Clips & Lifesavers	K-59
Aluminum Lifesaver	K-60
Tools	K-61
Ordering & Identifying	K-62
Assembly Instructions	K-63 thru K-64



Hose End 009 'B' Series

Ordering Information:

Order individually by catalog number.

 Refer to important safety information on pages A-2-3.

Application: Low pressure air, lube and oil lines.

Compatible Hose: H009

Pressure: Determined by maximum working pressure for hose size. See pages A-15-16 for working pressure ratings for hose end configurations.

Material: CA360 brass

Advantages: Reusable and easy to assemble. An excellent fitting where low pressure applications exist and a clamp may get in the way. Good selection of configurations at a reasonable cost.

Assembly Instructions:

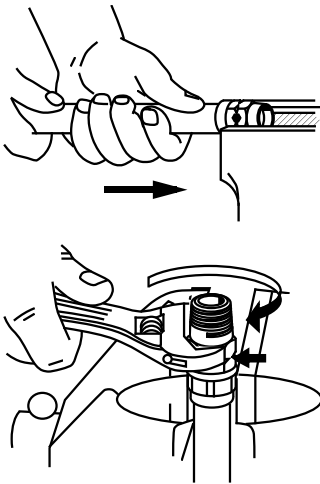
- 1. Lubricate insert threads and I.D. of hose.
- 2. Push hose into socket until it bottoms.
- 3. Screw insert into socket until insert hex touches socket. When assembling swivel ends, leave 1/32" clearance between swivel nut and socket.

Label Set: FS-400

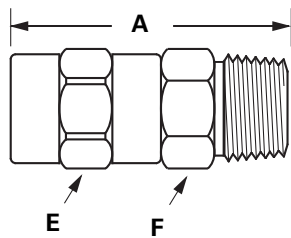
Note:
Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Swivel nuts are universal – both SAE 37° and 45° connections.



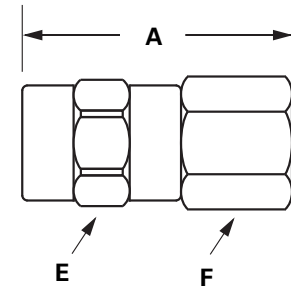
Male Pipe Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex E	Hex F
1/4	1/8	00904B-102	1/8-27	1.20	.75	.172	5/8	7/16
1/4	1/4	00904B-104	1/4-18	1.39	.94	.172	5/8	9/16

JIC 37° Female Swivel

(Exceptions noted)

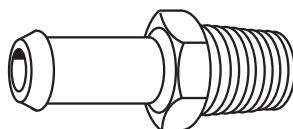
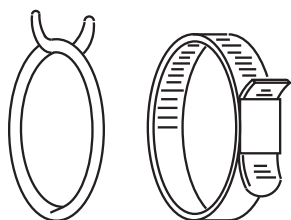


Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex E	Hex F
1/4	1/4	00904B-604	7/16-20	1.31	.81	.172	5/8	9/16

Field Attachable

057 'B' Series

Hose End 057 'B' Series



⚠ WARNING

Hose can be cut or damaged if over-tightened.

Ordering Information: Order individually by catalog number.

⚠ Refer to important safety information on pages A-2-3.

Assembly Instructions:

1. Slide clamp over hose.
2. Insert barbed end of fitting into hose.
3. Locate band clamp in the middle of 057 'B' Series inserts and tighten.
4. Position wire clamp behind bump on 057 'B' Series insert with H057 hose only.

Application: Low pressure air, fuel and oil applications. Generally used for automotive, light truck, and small engine fuel lines.

Compatible Hose: H057, H0105*, H0106*, H115*, H116*, EH049, EH089.

*H0105, H0106, H115 and H116 for air applications only.

Pressure: Determined by maximum working pressure for hose size. See pages A-15-16 for working pressure ratings for hose end configurations.

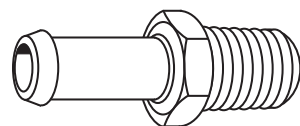
Material: CA360 brass

Advantages: Easy to assemble — just push the fitting into the hose and clamp. Good selection of configurations at reasonable cost.

Note:

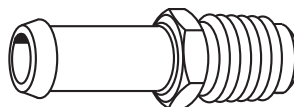
Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

Male Pipe Rigid



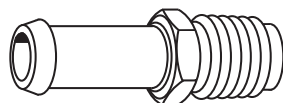
Hose I.D.	Pipe Size	Part Number
3/16	1/8	05703B-102
1/4	1/8	05704B-102
1/4	1/4	05704B-104
5/16	1/8	05705B-102
5/16	1/4	05705B-104
3/8	1/8	05706B-102
3/8	1/4	05706B-104
3/8	3/8	05706B-106
5/8	3/8	05710B-106
5/8	1/2	05710B-108
3/4	1/2	05712B-108

SAE 45° Flare Connector



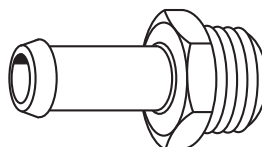
Hose I.D.	Tube Size	Part Number
3/8	5/16	05706B-305

Inverted Male Connector



Hose I.D.	Tube Size	Part Number
5/16	1/4	05705B-1598
5/16	5/16	05705B-1560
5/16	3/8	05705B-1561
3/8	5/16	05706B-1568
3/8	3/8	05706B-1570

Male Straight Thread Connector



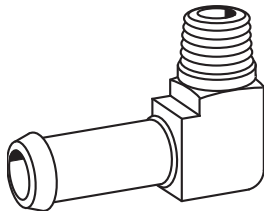
Hose I.D.	Thread Size	Part Number
3/8	9/16-24	05706B-1412
3/8	7/8-20	05706B-1413
3/8	5/8-20	05706B-1569

(Gasket included.)

Field Attachable

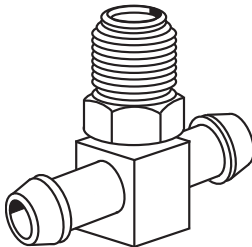
057 'B' Series

Male Pipe Rigid
90° Elbow



Hose I.D.	Pipe Size	Part Number
1/4	1/8	05704B-C02
5/16	1/8	05705B-C02
5/16	1/4	05705B-C04
3/8	1/8	05706B-C02
3/8	1/4	05706B-C04
3/8	3/8	05706B-C06
5/8	3/8	05710B-C06

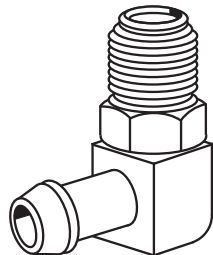
Inverted Male Tee Swivel



Hose I.D.	Tube Size	Part Number
3/8	5/16	05706B-1414#
3/8	3/8	05706B-1415#

(Chrome plated.)

Inverted Male Swivel 90°
Elbow



Hose I.D.	Tube Size	Part Number
1/4	1/4	05704B-B64
1/4	5/16	05704B-B65
5/16	5/16	05705B-B65
3/8	5/16	05706B-B65
3/8	3/8	05706B-B66
3/8	5/16	05706B-1416#
3/8	3/8	05706B-1417#

(# Chrome plated.)

Wire Hose Clamp
(For H057 Hose Only)



Hose I.D.	Part Number
3/16, 1/4	1538
5/16	1539
3/8	1540

Note: Zinc-Plated Carbon Steel Spring Wire

Field Attachable

100 'B' Series Barb-Tite™

Hose End 100 'B' Series

CAUTION
Sealing integrity may be damaged by the use of clamps.

Ordering Information: Order individually by part number.

Refer to important safety information on pages A-2-3.

Application: Low pressure shop or service air lines. Often used for low pressure lube and oil lines.

Compatible Hose: H100, H101, H201, H332

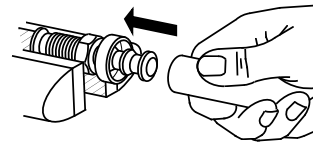
Pressure: Determined by maximum working pressure for hose size. See pages A-15-16 for working pressure ratings for hose end configurations.

Material: CA360 brass

Advantages: Easy to assemble – just push the fitting into the hose. No clamps needed! Low cost and a wide selection of configurations and sizes.

Assembly Instructions:

1. Lubricate insert.
2. Hold hose at angle as shown and push on and up over first barb.
3. Continue to push straight on until hose is seated under protective plastic cap. (Keep hand back from hose end area so that hose can expand.)



Disassembly Instructions:

1. Split hose as shown. Do not cut completely through hose. Sealing edge of barb could be damaged.
2. Bend hose and remove with quick pull.

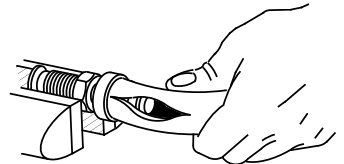
Assembly Equipment:

See page N-72 for optional Assembly Tools.

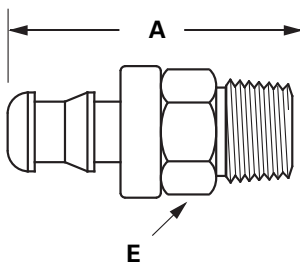
Label Set: FS-500

Note:

Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

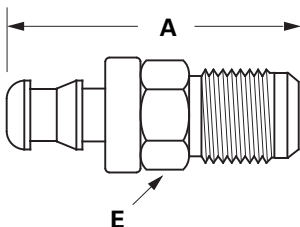


Male Pipe Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex E
1/4	1/8	10004B-102	1/8-27	1.29	.65	.172	7/16
1/4	1/4	10004B-104	1/4-18	1.52	.88	.172	9/16
5/16	1/8	10005B-102	1/8-27	1.36	.69	.234	1/2
5/16	1/4	10005B-104	1/4-18	1.57	.87	.234	9/16
3/8	1/8	10006B-102	1/8-27	1.46	.69	.297	1/2
3/8	1/4	10006B-104	1/4-18	1.65	.88	.297	9/16
3/8	3/8	10006B-106	3/8-18	1.65	.88	.297	11/16
1/2	3/8	10008B-106	3/8-18	1.85	.94	.391	11/16
1/2	1/2	10008B-108	1/2-14	2.10	1.19	.391	7/8
5/8	1/2	10010B-108	1/2-14	2.60	1.19	.484	7/8
3/4	3/4	10012B-112	3/4-14	2.66	1.25	.609	1-1/16

SAE 45° Flare Male Rigid



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex E
1/4	1/4	10004B-304	7/16-20	1.45	.81	.172	7/16
1/4	5/16	10004B-305	1/2-20	1.54	.94	.172	1/2
5/16	5/16	10005B-305	1/2-20	1.60	.94	.220	1/2
3/8	3/8	10006B-306	5/8-18	1.73	1.00	.297	5/8

K

Hose Ends - Field Attachable

Field Attachable

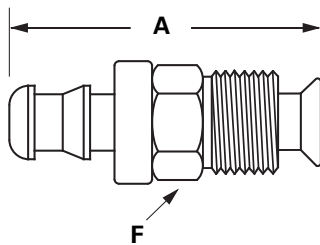
100 'B' Series Barb-Tite™

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Note:

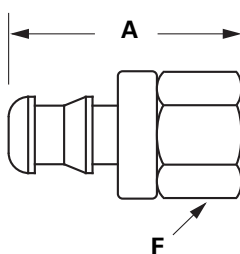
Drawings may differ from actual parts.

Inverted Male Swivel



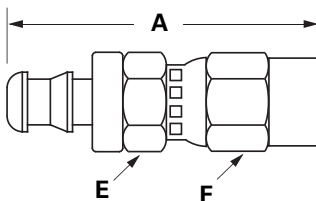
Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex F
1/4	3/16	10004B-B03	3/8-24	1.39	1.13	.109	3/8
1/4	1/4	10004B-B04	7/16-24	1.42	1.13	.172	7/16
1/4	5/16	10004B-B05	1/2-20	1.52	1.19	.188	1/2
5/16	1/4	10005B-B04	7/16-24	1.81	1.11	.184	7/16
5/16	5/16	10005B-B05	1/2-20	1.60	.80	.234	1/2
5/16	3/8	10005B-B06	5/8-18	1.60	1.19	.234	5/8
3/8	5/16	10006B-B05	1/2-20	1.64	1.19	.234	1/2
3/8	3/8	10006B-B06	5/8-18	1.70	.97	.297	5/8
1/2	1/2	10008B-B08	3/4-18	2.24	1.25	.391	3/4

Female Inverted Rigid



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex F
1/4	3/16	10004B-A03	3/8-24	1.12	.48	.172	1/2
1/4	1/4	10004B-A04	7/16-24	1.14	.50	.172	9/16
1/4	5/16	10004B-A05	1/2-20	1.18	.56	.172	5/8
5/16	5/16	10005B-A05	1/2-20	1.25	.56	.220	5/8
3/8	5/16	10006B-A05	1/2-20	1.32	.55	.297	5/8
3/8	3/8	10006B-A06	5/8-18	1.35	.63	.297	3/4
1/2	1/2	10008B-A08	3/4-18	1.73	.75	.391	7/8

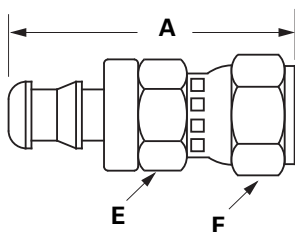
Female Pipe Swivel



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex E	Hex F
1/4	1/4	10004B-254	1/4-18	2.42	1.81	.172	3/4	5/8
3/8	3/8	10006B-256	3/8-18	2.77	2.00	.297	7/8	11/16
1/2	1/2	10008B-258	1/2-14	3.29	2.38	.391	1-1/8	7/8

JIC 37° Female Swivel

(Refer to Footnotes)



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex F
1/4	1/4	10004B-604 ^a	7/16-20	1.38	.74	.172	9/16
1/4	5/16	10004B-605 ^a	1/2-20	1.42	.81	.172	5/8
5/16	5/16	10005B-605 ^a	1/2-20	1.54	.83	.234	11/16
3/8	5/16	10006B-605 ^a	1/2-20	1.60	.88	.297	11/16
3/8	3/8	10006B-606	9/16-18	1.66	.88	.297	11/16
1/2	1/2	10008B-608 ^a	3/4-16	2.06	1.06	.391	7/8
5/8	5/8	10010B-610 ^a	7/8-14	2.67	1.19	.484	1
3/4	5/8	10012B-610 ^a	7/8-14	2.69	1.25	.511	1
3/4	3/4	10012B-612	1-1/16-12	2.69	1.19	.609	1-1/4

^a Swivel nuts are universal — both SAE 37° and 45° connections.

K

Hose Ends - Field Attachable

Field Attachable

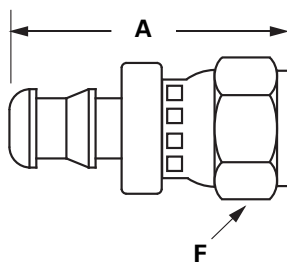
100 'B' Series Barb-Tite™

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Note:

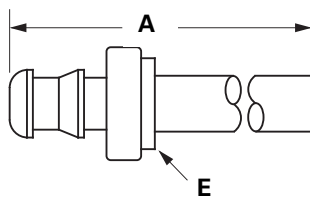
Drawings may differ from actual parts.

SAE 45° Flare Female Swivel



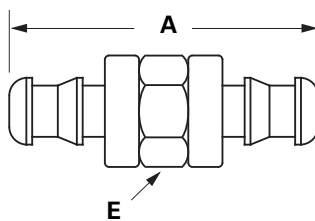
Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex F
3/8	3/8	10006B-406	5/8-18	1.73	.88	.297	3/4
3/4	3/4	10012B-412	1-1/16-14	2.66	1.25	.609	1-1/4

Straight Tube Rigid



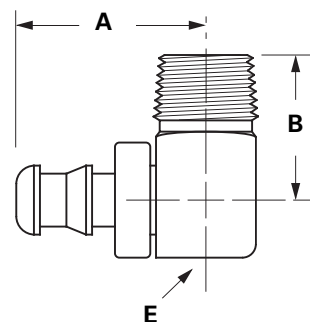
Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex F
1/4	3/16	10004B-X03	.188	1.53	0.78	.172	13/32
1/4	1/4	10004B-X04	.250	1.55	0.80	.172	13/32
1/4	5/16	10004B-X05	.312	1.65	0.90	.172	13/32
5/16	5/16	10005B-X05	.312	2.02	1.21	.228	7/16
3/8	3/8	10006B-X06	.375	2.13	1.26	.297	1/2

Hose Mender



Hose I.D.	Part Number	A	Hose Cut-Off Factor	Hole Dia.	Hex E
1/4	10004B-Y04	1.86	.38	.172	1/2
5/16	10005B-Y05	2.04	.44	.234	9/16
3/8	10006B-Y06	2.14	.44	.297	5/8
1/2	10008B-Y08	2.46	.50	.391	3/4

Male Pipe Rigid 90° Elbow



Hose I.D.	Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Square E
5/16	1/8	10005B-C02	1/8-27	1.11	.94	.31	.228	1/2
5/16	1/4	10005B-C04	1/4-18	1.18	.94	.38	.228	9/16
3/8	1/8	10006B-C02	1/8-27	1.17	.94	.38	.297	1/2
3/8	1/4	10006B-C04	1/4-18	1.24	.94	.38	.297	9/16

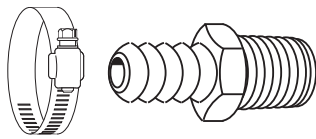
K

Hose Ends - Field Attachable

Field Attachable

105 'B' Series

Hose End 105 'B' Series



⚠ WARNING

Hose can be damaged if over-tightened.

Ordering Information: Order individually by part number.



Refer to important safety information on pages A-2-3.

Application: Low pressure shop or service air lines.

Compatible Hose: H0105; H0106; H115; H116.

Pressure: Determined by maximum working pressure for hose size. See pages A-15-16 for working pressure ratings for hose end configurations.

Material: CA360 brass

Advantages: Easy to assemble—just push the fitting into the hose and clamp. Low cost and a good selection of sizes.

Assembly Instructions:

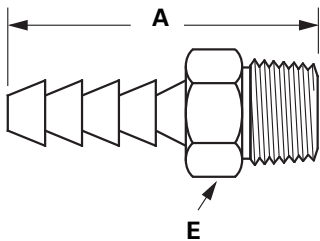
1. Slide clamp over hose.
2. Insert barbed end of fitting into hose.
3. Locate clamp in middle of insert and tighten. Use 6203/6204 Series clamps only. See page M-26.

Label Set: FS-500

Note:

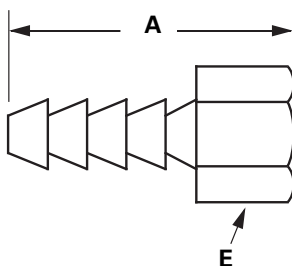
Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

Male Pipe (PTF Short)



Hose I.D.	Pipe Size	Part Number	A	Hex F	Number of Barbs
1/8	1/8	10502B-102	1.00	7/16	4
3/16	1/8	10503B-102	1.16	7/16	3
3/16	1/4	10503B-104	1.43	9/16	3
1/4	1/8	10504B-102	1.54	7/16	4
1/4	1/4	10504B-104	1.61	9/16	4
1/4	3/8	10504B-106	1.72	11/16	4
5/16	1/8	10505B-102	1.60	7/16	4
5/16	1/4	10505B-104	1.77	9/16	4
3/8	1/8	10506B-102	1.53	7/16	4
3/8	1/4	10506B-104	1.70	9/16	4
3/8	3/8	10506B-106	1.72	11/16	4
3/8	1/2	10506B-108	1.95	7/8	4
1/2	1/4	10508B-104	1.71	9/16	4
1/2	3/8	10508B-106	1.72	11/16	4
1/2	1/2	10508B-108	1.94	7/8	4
1/2	3/4	10508B-112	1.95	1-1/8	4
5/8	3/8	10510B-106	1.72	3/4	4
5/8	1/2	10510B-108	1.95	7/8	4
5/8	3/4	10510B-112	1.91	1-1/8	4
3/4	1/2	10512B-108	1.86	7/8	4
3/4	3/4	10512B-112	1.92	1-1/8	4

Female Pipe (NPTF)



Hose I.D.	Pipe Size	Part Number	A	Hex F	Number of Barbs
1/8	1/8	10502B-202	.97	9/16	4
3/16	1/8	10503B-202	1.19	9/16	3
1/4	1/8	10504B-202	1.47	9/16	4
1/4	1/4	10504B-204	1.58	11/16	4
5/16	1/8	10505B-202	1.47	9/16	4
5/16	1/4	10505B-204	1.58	11/16	4
3/8	1/8	10506B-202	1.47	9/16	4
3/8	1/4	10506B-204	1.58	11/16	4
3/8	3/8	10506B-206	1.64	13/16	4
1/2	1/4	10508B-204	1.58	11/16	4
1/2	3/8	10508B-206	1.64	13/16	4
1/2	1/2	10508B-208	1.86	1	4

K

Hose Ends - Field Attachable

Field Attachable

338 'B' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Hose End 338 'B' Series

(Parts are stamped with DOT)

Ordering Information:

Order individually by part number. Complete air brake hose assemblies can be found in the Ready-Made Hose Assemblies section of this catalog. Refer to pages M-12-17.

 Refer to important safety information on pages A-2-3.

Application: Air brake hose lines.

Compatible Hose: H338

Pressure: Determined by maximum working pressure for hose size. See pages A-15-16 for working pressure ratings for hose end configurations.

Material: CA360 brass

Advantages: Can be used for nearly any air brake line. Easy to assemble with a good selection of hose end configurations. Brass material offers excellent resistance against corrosion.

Assembly Instructions:

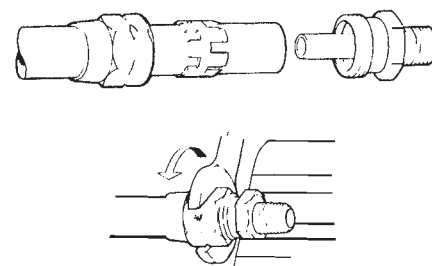
1. Slide nut and sleeve onto hose. Make sure bevel edge of sleeve faces out toward fitting.

2. Push hose into fitting until it bottoms.

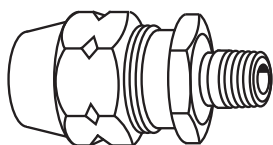
3. Screw nut until contact is made with body hex.

Label Set: FS-800

Note: Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

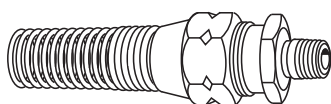


Male Connector



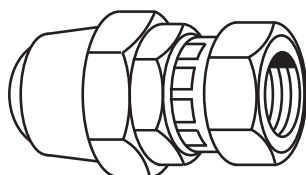
Hose I.D.	Pipe Size	Part Number	Overall Length	Hose Cut-Off Factor†
3/8	1/4	33806B-Y24	2.26	.69
3/8	3/8	33806B-Y26	2.35	.81
3/8	1/2	33806B-Y28	2.45	.94
1/2	3/8	33808B-Y26	2.24	.75
1/2	1/2	33808B-Y28	2.40	.94

Male Connector with Spring Guard



Hose I.D.	Pipe Size	Part Number	Overall Length	Hose Cut-Off Factor
3/8	1/4	33806B-Y34	4.72	.75
3/8	3/8	33806B-Y36	4.78	.81
3/8	1/2	33806B-Y38	4.88	.94
1/2	3/8	33808B-Y36	5.12	.75
1/2	1/2	33808B-Y38	4.88	.94

Female Connector



Hose I.D.	ABS Thread Size	Part Number	Overall Length	Hose Cut-Off Factor
3/8	3/4-20	33806B-Y76	2.40	.88
1/2	7/8-20	33808B-Y78	2.37	.88

(Steel Nut)

K

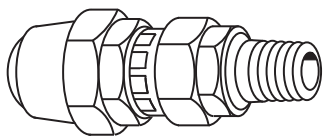
Hose Ends - Field Attachable

Field Attachable

338 'B' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

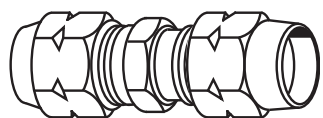
Female Connector with Adapter



Hose I.D.	Pipe Size	Part Number	ABS Thread Size	Overall Length	Hose Cut-Off Factor
3/8	1/4	33806B-Y84	3/4-20	3.33	1.81
3/8	3/8	33806B-Y86	3/4-20	3.33	1.75
1/2	3/8	33808B-Y86	7/8-20	3.30	1.75

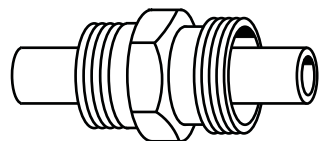
(Steel Nut)

Hose Mender



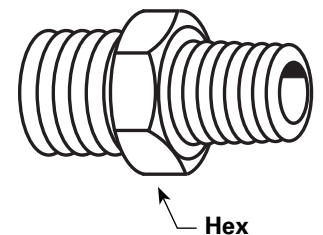
Hose I.D.	Part Number	Overall Length
3/8	33806B-Y06	3.28
1/2	33808B-Y08	3.25

Hose Mender (Body Only)



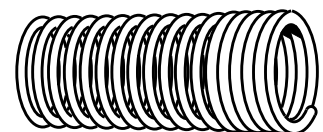
Hose I.D.	Part Number	Overall Length
3/8	33806-E	2.55

Adapter



ABS Thread Size	Pipe Size	Part Number	Overall Length	ABS Thread Size	Hex
3/8	1/4	1390x6	1.18	3/4-20	3/4
3/8	3/8	1390x6x6	1.18	3/4-20	3/4
3/8	1/2	1390x6x8	1.37	3/4-20	7/8
1/2	3/8	1390x8	1.18	7/8-20	7/8
1/2	1/2	1390x8x8	1.37	7/8-20	7/8

Spring Guard



Hose I.D.	Part Number
3/8	33806-C
1/2	33808-C

(Steel Nut)

K

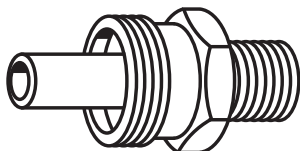
Hose Ends - Field Attachable

Field Attachable

338 'B' Series

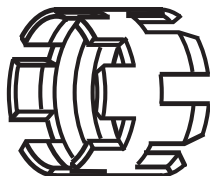
To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Insert (Body Only)



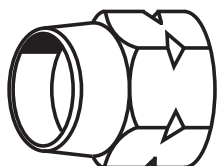
Hose I.D.	Pipe Size	Part Number	Hole Dia.
3/8	1/4	1391x6	.281
3/8	3/8	1391x6x6	.281
3/8	1/2	1391x6x8	.281
1/2	3/8	1391x8	.390
1/2	1/2	1391x8x8	.390

Sleeve



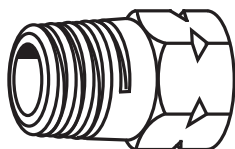
Hose I.D.	Part Number
3/8	33806-A
1/2	33808-A

Nut



Hose I.D.	Part Number
3/8	33806-B
1/2	33808-B

Nut For Spring Guard



Hose I.D.	Part Number
3/8	33806-D
1/2	33808-D

K

Hose Ends - Field Attachable

Hose End 069 'D' Series

Ordering Information: Order individually by part number. For mandrel, see page N-71.

 Refer to important safety information on pages A-2-3.

Application: Medium pressure and high temperature hose lines for a variety of applications including truck, industrial, and small engine where temperature may be a problem.

Compatible Hose: H069, H166, H169, H229, H366.

Pressure: Determined by hose burst pressure. See pages A-15-16 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; clear trivalent chromate

Advantages: Very popular in heavy-duty truck markets. Can be used with a variety of hoses allowing for a diverse number of applications.

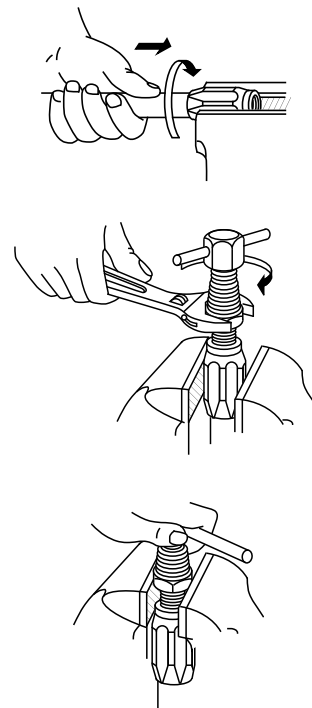
Assembly Instructions:

1. Lubricate mandrel, insert threads and I.D. of hose.
2. Screw hose into socket (left-hand thread) until hose bottoms. Back out 1/4 turn.
3. Place insert on mandrel. Screw insert into socket. When assembling swivel ends, leave 1/32" clearance between swivel nut and socket.

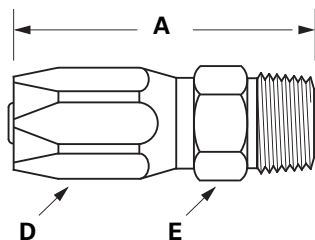
Label Set: FS-600

Note:

Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.



Male Pipe Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
3/16	1/8	06904D-102	1/8-27	1.72	1.00	.17	5/8	7/16
3/16	1/4	06904D-104	1/4-18	1.90	1.19	.17	5/8	9/16
1/4	1/4	06905D-104	1/4-18	1.96	1.18	.25	11/16	9/16
5/16	1/4	06906D-104	1/4-18	2.10	1.25	.30	13/16	5/8
13/32	3/8	06908D-106	3/8-18	2.48	1.38	.39	15/16	11/16
13/32	1/2	06908D-108	1/2-14	2.73	1.58	.39	15/16	7/8
1/2	1/2	06910D-108	1/2-14	2.88	1.59	.48	1-1/8	7/8
5/8	3/4	06912D-112	3/4-14	3.24	1.67	.61	1-1/4	1-1/16
7/8	3/4	06916D-112	3/4-14	2.80	1.53	.72	1-7/16	1-1/8
7/8	1	06916D-116	1-11-1/2	3.00	1.81	.81	1-7/16	1-3/8
1-1/8	1-1/4	06920D-120	1-1/4-11-1/2	3.18	1.88	1.05	1-3/4	1-11/16
1-3/8	1-1/2	06924D-124	1-1/2-11-1/2	3.48	2.03	1.28	1-15/16	2
1-13/16	2	06932D-132	2-11-1/2	4.06	2.21	1.75	2-1/2	2-1/2
2-3/8	2-1/2	06940T-140*	2-1/2-8	5.03	3.13	2.20	3-1/8	3

* Brass construction

Field Attachable

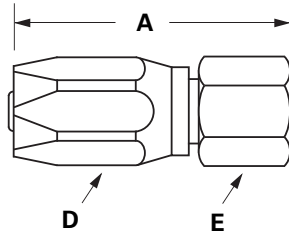
069 'D' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal – both SAE 37° and 45° connections.

JIC 37° Female Swivel

(Exceptions Noted for 45° Flare)
(Refer to Footnotes)

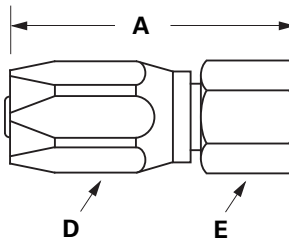


Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
3/16	1/4	06904D-604 ^a	7/16-20	1.74	1.06	.17	5/8	9/16
1/4	5/16	06905D-605 ^a	1/2-20	1.90	1.19	.24	11/16	5/8
5/16	3/8	06906D-606	9/16-18	2.05	1.15	.30	13/16	11/16
13/32	1/2	06908D-608 ^a	3/4-16	2.52	1.38	.39	15/16	7/8
1/2	5/8	06910D-610 ^a	7/8-14	2.79	1.56	.49	1-1/8	1
5/8	3/4	06912D-612	1-1/16-12	3.15	1.63	.61	1-1/4	1-1/4
7/8	1	06916D-616	1-5/16-12	2.81	1.63	.82	1-7/16	1-1/2
1-1/8	1-1/4	06920D-620	1-5/8-12	3.00	1.64	1.05	1-3/4	2
1-3/8	1-1/2	06924D-624	1-7/8-12	3.28	1.88	1.28	1-15/16	2-1/4
1-13/16	2	06932D-632	2-1/2-12	4.02	2.18	1.75	2-1/2	2-7/8
2-3/8	2-1/2	06940T-640*	3-12	4.16	2.25	2.22	3-1/8	3-3/8

*Brass construction.

^a Swivel nuts are universal – both SAE 37° and 45° connections.

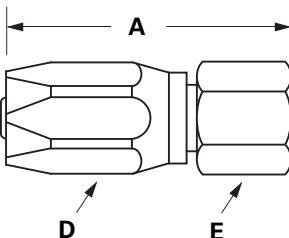
SAE 45° Female Swivel



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
5/16	3/8	06906D-406	5/8-18	2.05	1.19	.29	13/16	3/4
5/8	3/4	06912D-412	1-1/16-14	3.02	1.44	.61	1-1/4	1-1/4

30° Flare Female Swivel

(PTT Thread for Diesel Applications)



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
7/8	1	06916D-X26	1-5/16-14	2.60	1.33	.81	1-7/16	1-1/2

(See page L-77 for PTT Thread Adapter.)

K

Hose Ends - Field Attachable

Field Attachable

'K' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Hose End 'K' Series

Ordering Information: Order as a complete kit or order individual components by part number.

 Refer to important safety information on pages A-2-3.

Application: Low pressure hydraulic applications and suction lines.

Compatible Hose: H039

Pressure: Determined by maximum working pressure for hose size. See pages A-15-16 for working pressure ratings for hose end configurations.

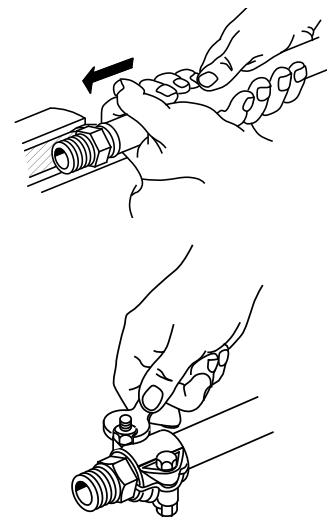
Material: 12L14 carbon steel insert; malleable iron clamp

Plating: Zinc; clear trivalent chromate

Assembly Instructions:

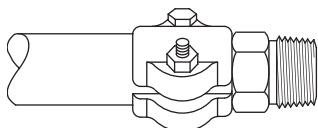
1. Lubricate insert and hose I.D.
2. Push hose on barbed stand pipe. Be sure hose is bottomed to clamp retainer.
3. After making sure clamp shoulders will lock in recesses of insert, draw clamps together evenly.

Note:
Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.



Male Pipe

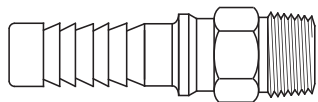
Assembly Includes Insert, Clamps, Nuts and Bolts



Hose I.D.	Pipe Size	Catalog Number Complete Assembly	Insert I.D.	Hose Cut-Off Factor†	Insert Only	Clamp Ass'y Less Insert	Clamp Only	Nut No.	Bolt No.
3/4	3/4	K12N-112	.66	1.44	IKE12N-112	K12	CK12	NK12	BK12
1	1	K16N-116	.91	1.63	IKE16N-116	K16	CK16	NK16	BK16
1-1/4	1-1/4	K20N-120	1.06	1.81	IKE20N-120	K20	CK20	NK20	BK20
2	2	K32N-132	1.75	2.19	IKE32N-132	K32	CK32	NK32	BK32

K

Male Connector Insert Only



Hose I.D.	Pipe Size	Catalog Number	Pipe Thread	Overall Length	Hose Cut-Off Factor†	Insert I.D.
3/4	3/4	IKE12N-112	3/4-14	3.03	1.44	.66
1	1	IKE16N-116	1-11-1/2	3.72	1.63	.91
1-1/4	1-1/4	IKE20N-120	1-1/4-11-1/2	4.59	1.88	1.06
2	2	IKE32N-132	2-11-1/2	5.19	2.19	1.75

Use with H039 hose only. May be clamped with band or gear-type clamp. Used with suction hose for suction lines or return lines. For low pressure applications only.

Hose Ends - Field Attachable

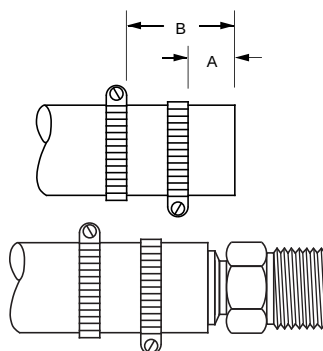
Field Attachable

039 'K'

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Hose End 039 'K' Series

(Used with H039 and H039H hose only.)



Ordering Information: Order individually by part number.

Refer to important safety information on pages A-2-3.

Application: Suction and return lines; Used with suction hose for suction or return lines. For low pressure applications.

Compatible Hose: H039

Pressure: Refer to H039 listing on page B-2 when used with 039 'K' Series hose ends and 6203 Series clamps.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; clear trivalent chromate

Assembly Instructions:

1. Cut hose to length. Be sure the cut is square and hose is clean. Trim sharp exposed wire to prevent injury.
2. Slide clamps onto hose.
3. Push fitting into hose. Be sure the hose is bottomed against the atop ring.
4. Position clamps as shown. Secure with a screwdriver or wrench.

Note:

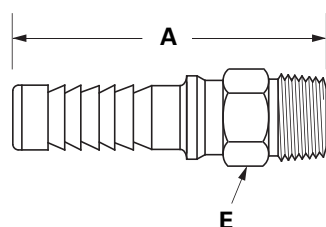
Band-It Clamps may be used in place of worm gear clamps.

Not intended for SAE 100R4 applications.

Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

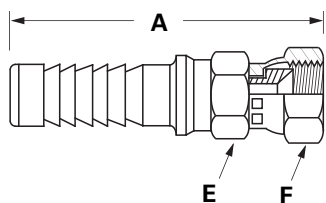
Hose Size	Clamp Part Number	A	B	T Minimum
-12	6203-012	5/8	1-1/4	25 in./lbs.
-16	6203-016	5/8	1-1/4	25 in./lbs.
-20	6203-024	5/8	1-1/4	25 in./lbs.

Male Pipe Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hex E
3/4	3/4	03912K-112	3/4-14	3.61	1.44	1-1/16
1	1	03916K-116	1-11-1/2	3.90	1.69	1-3/8
1-1/4	1-1/4	03920K-120	1-1/4-11-1/2	4.63	2.31	1-11/16

JIC 37° Female Swivel



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hex E	Hex F
3/4	3/4	03912K-612	1-1/16-12	3.86	1.69	1	1-1/4
1	1	03916K-616	1-5/16-12	4.46	2.25	1-1/4	1-1/2
1-1/4	1-1/4	03920K-620	1-5/8-12	4.92	2.56	1-11/16	2

K

Hose Ends - Field Attachable

Field Attachable

104 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Hose End 104 'N' Series

Ordering Information: Order individually by part number. Order o-rings by catalog number; reference individual hose listing for details. For split flange kits, refer to pages L-89-92.

Application: Medium pressure hydraulic applications such as construction, farm implement and industrial equipment.

Compatible Hose: H104

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See pages A-15-16 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; clear trivalent chromate

Advantages: Good selection of hose ends. Non-mandrel assembly. Wide variety of applications because of its use with H104 hose.

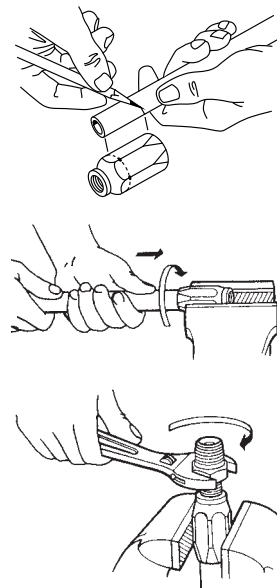
Assembly Instructions:

Due to the high torque required to assemble larger sizes, it is recommended that 104 'N' Series hose ends be assembled with the T-300 (page N-71) assembly machine.

1. Lubricate insert threads and I.D. of hose.
2. Measure from end of hose and mark the socket depth. Use notch on socket or see insertion depth chart below.
3. Screw hose into socket (left-hand thread) to the depth marked on hose.
4. Screw insert into socket until insert touches socket.

Note:

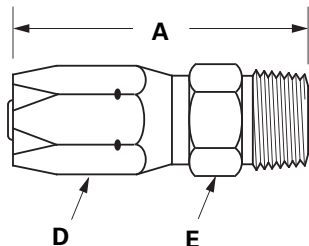
Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.



Insertion Depth

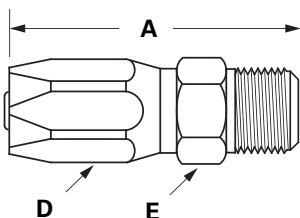
Hose I.D.	Screw Hose Into Socket
1/4	1"
3/8	1-5/32"
1/2	1-3/16"
3/4	1-5/16"
1	1-9/16"

Male Pipe Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex E	Hex F
1/4	1/8	10404N-102	1/8-27	2.18	1.19	.17	3/4	7/16
1/4	1/4	10404N-104	1/4-18	2.36	1.38	.17	3/4	9/16
3/8	1/4	10406N-104	1/4-18	2.50	1.31	.27	7/8	9/16
3/8	3/8	10406N-106	3/8-18	2.53	1.38	.27	7/8	11/16
1/2	3/8	10408N-106	3/8-18	2.58	1.38	.39	1	11/16
1/2	1/2	10408N-108	1/2-14	2.83	1.63	.39	1	7/8
1/2	3/4	10408N-112	3/4-14	2.86	1.69	.39	1	1-1/16
3/4	3/4	10412N-112	3/4-14	2.98	1.69	.61	1-3/8	1-1/16
1	1	10416N-116	1-11-1/2	3.59	2.00	.81	1-3/4	1-3/8

JIC 37° Male Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex E	Hex F
1/4	1/4	10404N-504	7/16-20	2.35	1.38	.17	3/4	9/16
1/4	5/16	10404N-505	1/2-20	2.35	1.38	.17	3/4	9/16
1/4	3/8	10404N-506	9/16-18	2.39	1.38	.17	3/4	5/8
3/8	3/8	10406N-506	9/16-18	2.53	1.38	.27	7/8	5/8
3/8	1/2	10406N-508	3/4-16	2.69	1.50	.27	7/8	13/16
1/2	1/2	10408N-508	3/4-16	2.74	1.56	.39	1	13/16
1/2	5/8	10408N-510	7/8-14	2.87	1.69	.39	1	15/16
3/4	3/4	10412N-512	1-1/16-12	3.09	1.75	.61	1-3/8	1-1/8
1	1	10416N-516	1-5/16-12	3.56	2.00	.81	1-3/4	1-3/8

K

Hose Ends - Field Attachable

Field Attachable

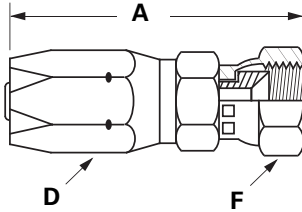
104 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal – both SAE 37° and 45° connections.

JIC 37° Female Swivel

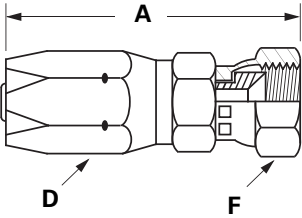
(Exceptions Noted for 45° Flare, Refer to Footnotes)



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex E	Hex F
1/4	1/4	10404N-604 ^a	7/16-20	2.49	1.50	.17	3/4	9/16
1/4	5/16	10404N-605 ^a	1/2-20	2.59	1.56	.17	3/4	5/8
1/4	3/8	10404N-606	9/16-18	2.65	1.63	.17	3/4	11/16
3/8	3/8	10406N-606	9/16-18	2.79	1.63	.27	7/8	11/16
3/8	1/2	10406N-608 ^a	3/4-16	2.96	1.81	.27	7/8	7/8
1/2	1/2	10408N-608 ^a	3/4-16	3.01	1.81	.39	1	7/8
1/2	5/8	10408N-610 ^a	7/8-14	3.02	1.88	.39	1	1
3/4	5/8	10412N-610 ^a	7/8-14	3.14	1.88	.46	1-3/8	1
3/4	3/4	10412N-612	1-1/16-12	3.26	2.00	.61	1-3/8	1-1/4
3/4	7/8	10412N-614	1-3/16-12	3.39	2.06	.61	1-3/8	1-3/8
1	1	10416N-616	1-5/16-12	4.19	2.63	.81	1-3/4	1-1/2

^a Swivel nuts are universal – both SAE 37° and 45° connections.

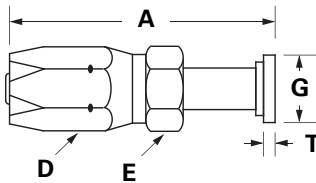
SAE 45° Female Swivel



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex E	Hex F
3/8	3/8	10406N-406	5/8-18	2.67	1.50	.27	7/8	3/4
3/4	3/4	10412N-412	1-1/16-14	3.27	2.00	.61	1-3/8	1-1/4

Split Flange Straight

(SAE Code 61)

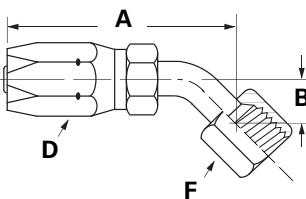


Hose I.D.	Nom. Flange Size	Part Number	Replacement O-Ring (Not Included)	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E	Flange Dia.	T
3/4	3/4	10412N-G12	12x252	3.79	2.44	.58	1-3/8	15/16	1.500 (38 mm)	.265
1	1	10416N-G16	16x252	4.21	2.63	.76	1-3/4	1-1/4	1.750 (44 mm)	.315

(For Split Flange Kits, see pages L-89 thru L92.)

JIC 37° Female Swivel 45° Tube Elbow

(Exceptions noted)



Hose I.D.	Tube Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex E	Hex F
1/4	1/4	10404N-684 ^a	7/16-20	2.90	.33	1.88	.15	3/4	9/16
3/8	3/8	10406N-686	9/16-18	3.22	.39	2.00	.24	7/8	11/16
1/2	1/2	10408N-688 ^a	3/4-16	3.61	.55	2.44	.33	1	7/8
1/2	5/8	10408N-690 ^a	7/8-14	3.67	.63	2.50	.39	1	1
3/4	3/4	10412N-692	1-1/16-12	4.20	.78	2.81	.58	1-3/8	1-1/4
1	1	10416N-696	1-5/16-12	5.42	1.10	3.88	.81	1-3/4	1-1/2

^a Swivel nuts are universal – both SAE 37° and 45° connections.

K

Hose Ends - Field Attachable

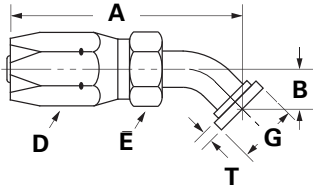
Field Attachable

104 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal—both SAE 37° and 45° connections.

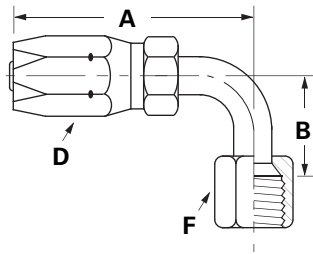
Split Flange 45° Tube Elbow (SAE Code 61)



Hose I.D.	Nom. Flange Size	Part Number	Replacement O-Ring (Not Included)	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E	Flange Dia.	T
3/4	3/4	10412N-G42	12x252	4.43	.99	3.13	.58	1-3/8	15/16	1.500 (38mm)	.265
1	1	10416N-G46	16x252	4.99	1.06	3.44	.76	1-3/4	1-1/4	1.750 (44mm)	.315

(For Split Flange Kits, see pages L-89 thru L-92.)

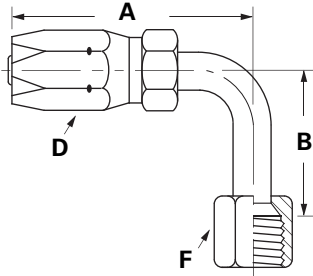
JIC 37° Female Swivel 90° Tube Elbow (Refer to Footnotes)



Hose I.D.	Tube Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
1/4	1/4	10404N-664 ^a	7/16-20	2.80	.68	1.81	.15	3/4	9/16
3/8	3/8	10406N-666	9/16-18	3.15	.85	2.00	.24	7/8	11/16
1/2	1/2	10408N-668 ^a	3/4-16	3.44	1.09	2.25	.33	1	7/8
1/2	5/8	10408N-670 ^a	7/8-14	3.75	1.23	2.56	.39	1	1
3/4	3/4	10412N-672	1-1/16-12	4.07	1.82	2.75	.58	1-3/8	1-1/4
1	1	10416N-676	1-5/16-12	5.27	2.14	3.75	.81	1-3/4	1-1/2

^a Swivel nuts are universal – both SAE 37° and 45° connections.

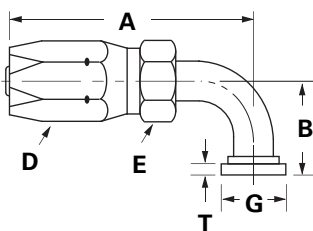
JIC 37° Female Swivel Long Drop 90° Tube Elbow (Refer to Footnotes)



Hose I.D.	Tube Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
1/4	1/4	10404N-644 ^a	7/16-20	2.83	1.80	1.81	.15	3/4	9/16
3/8	3/8	10406N-646	9/16-18	3.20	2.18	2.00	.24	7/8	11/16
1/2	1/2	10408N-648 ^a	3/4-16	3.44	2.43	2.25	.33	1	7/8
3/4	3/4	10412N-652	1-1/16-12	4.10	3.73	2.75	.58	1-3/8	1-1/4

^a Swivel nuts are universal – both SAE 37° and 45° connections.

Split Flange 90° Tube Elbow (SAE Code 61)



Hose I.D.	Nom. Flange Size	Part Number	Replacement O-Ring (Not Included)	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E	Flange Dia.	T
3/4	3/4	10412N-G72	12x252	4.08	2.13	2.75	.58	1-3/8	15/16	1.500 (38 mm)	.265
3/4	1	10412N-G76	16x252	4.08	2.13	2.75	.83	1-3/8	15/16	1.750 (44 mm)	.315
1	1	10416N-G76	16x252	4.81	2.38	3.25	.83	1-3/4	1-1/4	1.750 (44 mm)	.315

(For Split Flange Kits, see pages L-89 thru L-92.)

K

Hose Ends - Field Attachable

Hose End 213 'N' Series

Ordering Information: Order individually by part number.

 Refer to important safety information on pages A-2-3.

Application: Medium pressure and high temperature hose lines for a variety of applications including truck, industrial, and small engines where high temperatures exist.

Compatible Hose: H213

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See pages A-15-16 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

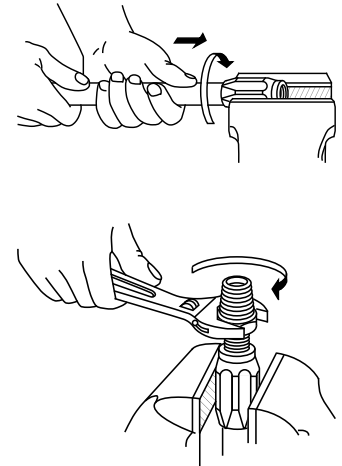
Plating: Zinc; clear trivalent chromate

Advantages: Very popular in heavy-duty truck markets. Good selection of hose ends. Non-mandrel assembly.

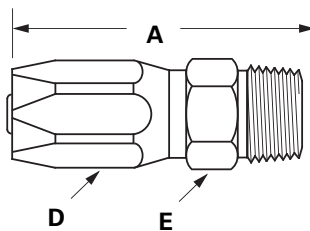
Assembly Instructions:

1. Lubricate insert threads and I.D. of hose.
2. Screw hose into socket (left-hand thread) until hose bottoms. Back out 1/4 turn.
3. Screw insert into socket until insert touches socket.

Note: Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

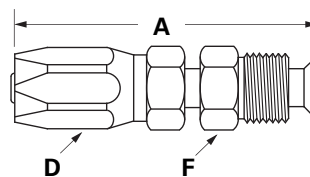


Male Pipe Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/16	1/8	21304N-102	1/8-27	1.59	.94	.12	9/16	7/16
3/16	1/4	21304N-104	1/4-18	1.78	1.13	.12	9/16	9/16
1/4	1/4	21305N-104	1/4-18	1.80	1.06	.17	5/8	9/16
5/16	3/8	21306N-106	3/8-18	1.96	1.19	.23	3/4	11/16
13/32	1/2	21308N-108	1/2-14	2.36	1.44	.33	7/8	7/8
1/2	1/2	21310N-108	1/2-14	2.45	1.44	.42	1	7/8
5/8	3/4	21312N-112	3/4-14	2.56	1.50	.55	1-1/8	1-1/16
7/8	1	21316N-116	1-11-1/2	2.71	1.69	.80	1-3/8	1-3/8

Inverted Male Swivel Straight



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/16	1/4	21304N-B04	7/16-24	2.43	1.69	.15	9/16	7/16
1/4	5/16	21305N-B05	1/2-20	2.47	1.75	.21	5/8	1/2
5/16	1/4	21306N-B04	7/16-24	2.50	1.63	.15	3/4	7/16
5/16	5/16	21306N-B05	1/2-20	2.57	1.75	.21	3/4	1/2
5/16	3/8	21306N-B06	5/8-18	2.74	1.88	.25	3/4	5/8
13/32	1/2	21308N-B08	3/4-18	3.26	2.25	.33	7/8	3/4

Field Attachable

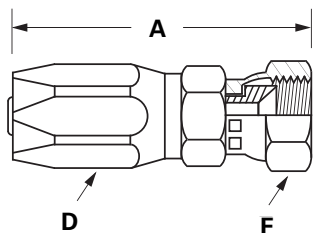
213 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal—both SAE 37° and 45° connections.

JIC 37° Female Swivel

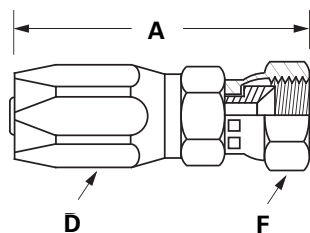
(Exceptions Noted for 45° Flare, Refer to Footnotes)



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/16	1/4	21304N-604 ^a	7/16-20	1.92	1.25	.15	9/16	9/16
1/4	5/16	21305N-605 ^a	1/2-20	2.01	1.25	.20	5/8	5/8
5/16	3/8	21306N-606	9/16-18	2.20	1.38	.26	3/4	11/16
13/32	1/2	21308N-608 ^a	3/4-16	2.49	1.50	.36	7/8	7/8
1/2	5/8	21310N-610 ^a	7/8-14	2.69	1.63	.45	1	1
5/8	3/4	21312N-612	1-1/16-12	2.91	1.75	.57	1-1/8	1-1/4
7/8	1	21316N-616	1-5/16-12	2.95	1.88	.82	1-3/8	1-1/2

^a Swivel nuts are universal – both SAE 37° and 45° connections.

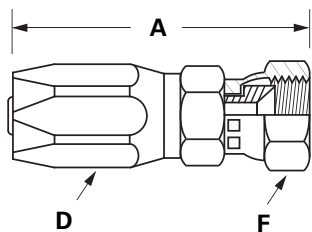
SAE 45° Female Swivel



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
5/16	3/8	21306N-406	5/8-18	2.14	1.38	.26	3/4	3/4
5/8	3/4	21312N-412	1-1/16-14	2.85	1.75	.57	1-1/8	1-1/4

30° Flare Female Swivel

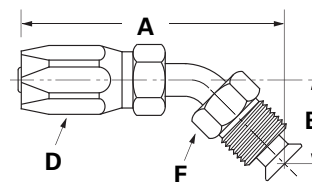
(PTT Thread For Diesel Applications)



Hose I.D.	Tube Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
7/8	1	21316N-X26	1-5/16-14	2.78	1.69	.81	1-3/8	1-1/2

(See page L-77 for PTT Thread Adapter.)

Inverted Male Swivel 45° Tube Elbow



Hose I.D.	Tube Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/16	1/4	21304N-E44	7/16-24	2.91	.93	2.19	.15	9/16	7/16
1/4	5/16	21305N-E45	1/2-20	3.30	1.14	2.63	.21	5/8	1/2
5/16	1/4	21306N-E44	7/16-24	3.10	.93	2.25	.15	3/4	7/16
5/16	5/16	21306N-E45	1/2-20	3.40	1.14	2.63	.21	3/4	1/2
5/16	3/8	21306N-E46	5/8-18	3.26	.94	2.38	.25	3/4	5/8
13/32	1/2	21308N-E48	3/4-18	3.70	.94	2.69	.33	7/8	3/4

K

Hose Ends - Field Attachable

Field Attachable

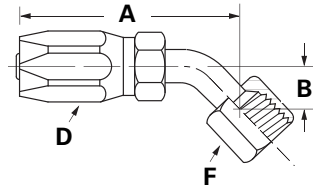
213 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal—both SAE 37° and 45° connections.

SAE 37° Female Swivel 45° Tube Elbow

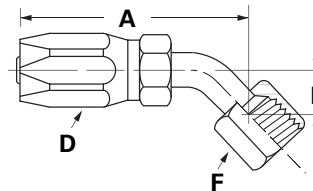
(Exceptions Noted for 45° Flare, Refer to Footnotes)



Hose I.D.	Tube Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/16	1/4	21304N-684 ^a	7/16-20	2.34	.33	1.63	.15	9/16	9/16
1/4	5/16	21305N-685 ^a	1/2-20	2.44	.36	1.69	.21	5/8	5/8
5/16	3/8	21306N-686	9/16-18	2.61	.39	1.75	.25	3/4	5/8
13/32	1/2	21308N-688 ^a	3/4-16	3.13	.55	2.13	.33	7/8	7/8

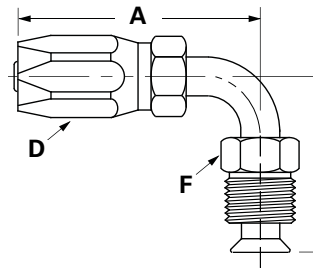
^a Swivel nuts are universal – both SAE 37° and 45° connections.

SAE 45° Female Swivel 45° Tube Elbow



Hose I.D.	Tube Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
5/16	3/8	21306N-486	5/8-18	2.85	.39	1.81	.25	3/4	3/4

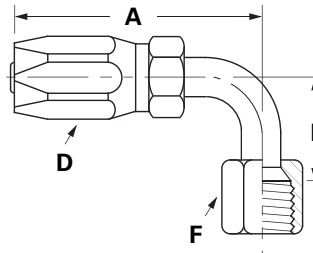
Inverted Male Swivel 90° Tube Elbow



Hose I.D.	Tube Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/16	1/4	21304N-E04	7/16-24	1.69	1.36	1.50	.13	9/16	7/16
3/16	5/16	21304N-E05	1/2-20	2.30	1.61	1.56	.13	9/16	1/2
1/4	5/16	21305N-E05	1/2-20	2.49	1.61	1.75	.17	5/8	1/2
5/16	1/4	21306N-E04	7/16-24	2.58	1.65	1.75	.15	3/4	7/16
5/16	5/16	21306N-E05	1/2-20	2.50	1.61	1.63	.21	3/4	1/2
5/16	3/8	21306N-E06	5/8-18	2.82	1.97	2.00	.24	3/4	5/8
13/32	1/2	21308N-E08	3/4-18	2.78	1.69	1.81	.33	7/8	3/4

JIC 37° Female Swivel 90° Tube Elbow

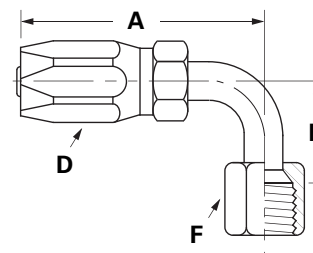
(Exceptions Noted for 45° Flare, Refer to Footnotes)



Hose I.D.	Tube Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/16	1/4	21304N-664 ^a	7/16-20	2.16	.68	1.44	.13	9/16	9/16
1/4	5/16	21305N-665 ^a	1/2-20	2.46	.77	1.75	.17	5/8	5/8
5/16	3/8	21306N-666	9/16-18	2.61	.85	1.81	.24	3/4	11/16
13/32	1/2	21308N-668 ^a	3/4-16	2.91	1.09	1.94	.33	7/8	7/8

^a Swivel nuts are universal – both SAE 37° and 45° connections.

SAE 45° Female Swivel 90° Tube Elbow



Hose I.D.	Tube Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
5/16	3/8	21306N-466	5/8-18	2.48	.85	1.63	.24	3/4	3/4

K

Hose Ends - Field Attachable

Field Attachable

247 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Hose End 247 'N' Series

Ordering Information:
Order individually by catalog number.

 Refer to important safety information on pages A-2-3.

Application: Medium pressure and high temperature hose lines for a variety of applications including truck, industrial, and small engine where temperature may be a problem.

Compatible Hose: H059, H069, H166, H169, H229, H366, H569

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See pages A-15-16 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; clear trivalent chromate

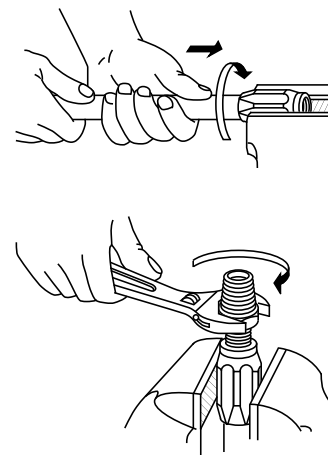
Advantages: Very popular in heavy-duty truck markets. Good selection of hose ends. Compatible with a wide variety of hose types allowing for a diverse number of applications. Non-mandrel assembly.

Assembly Instructions:

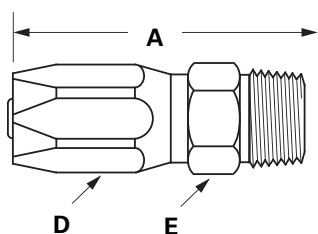
1. Lubricate insert threads and I.D. of hose.
2. Screw hose into socket (left-hand thread) until hose bottoms. Back out 1/4 turn.
3. Screw insert into socket until insert touches socket.

Label Set: FS-600

Note:
Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

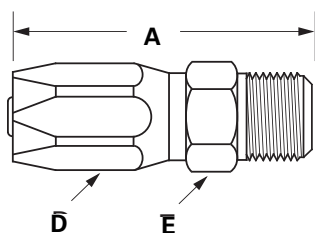


Male Pipe Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
3/16	1/8	24704N-102	1/8-27	1.71	1	.12	5/8	7/16
3/16	1/4	24704N-104	1/4-18	1.87	1.12	.12	5/8	9/16
1/4	1/4	24705N-104	1/4-18	1.96	1.25	.18	11/16	9/16
5/16	1/4	24706N-104	1/4-18	2.08	1.25	.25	13/16	9/16
5/16	3/8	24706N-106	3/8-18	2.11	1.25	.25	13/16	11/16
13/32	3/8	24708N-106	3/8-18	2.48	1.33	.36	15/16	11/16
13/32	1/2	24708N-108	1/2-14	2.73	1.58	.36	15/16	7/8
1/2	1/2	24710N-108	1/2-14	2.88	1.63	.45	1-1/8	7/8
1/2	3/4	24710N-112	3/4-14	2.94	1.69	.45	1-1/8	1-1/8
5/8	3/4	24712N-112	3/4-14	3.24	1.67	.55	1-1/4	1-1/4

JIC 37° Male Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
3/16	1/4	24704N-504	7/16-20	1.85	1.10	.12	5/8	1/2
1/4	5/16	24705N-505	1/2-20	2.01	1.19	.18	11/16	9/16
5/16	3/8	24706N-506	9/16-18	2.13	1.25	.25	13/16	5/8
13/32	1/2	24708N-508	3/4-16	2.64	1.56	.36	15/16	13/16
1/2	5/8	24710N-510	7/8-14	2.92	1.69	.45	1-1/8	15/16
5/8	3/4	24712N-512	1-1/16-12	3.32	1.81	.55	1-1/4	1-1/8
7/8	1	24716N-516	1-5/16-12	2.97	1.81	.81	1-7/16	1-3/8

K

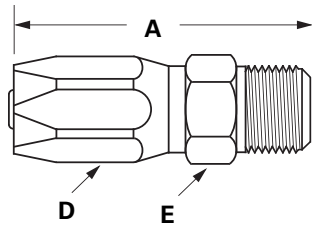
Hose Ends - Field Attachable

Field Attachable

247 'N' Series

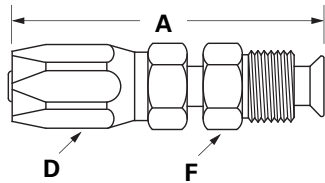
To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

SAE 45° Flare Male Rigid



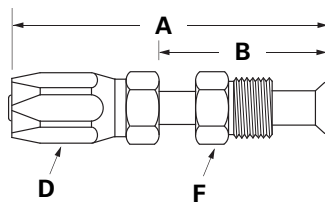
Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
3/16	1/4	24704N-304	7/16-20	1.84	1.13	.12	5/8	1/2
1/4	5/16	24705N-305	1/2-20	2.00	1.25	.18	11/16	9/16
5/16	3/8	24706N-306	5/8-18	2.18	1.28	.25	13/16	11/16
13/32	1/2	24708N-308	3/4-16	2.67	1.50	.36	15/16	13/16
1/2	5/8	24710N-310	7/8-14	3.00	1.72	.45	1-1/8	15/16
5/8	3/4	24712N-312	1-1/16-14	3.46	1.88	.55	1-1/4	1-1/8

Inverted Male Swivel Straight



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor†	Hole Dia.	Hex D	Hex F
3/16	1/4	24704N-B04	7/16-24	2.54	1.81	.18	5/8	7/16
1/4	5/16	24705N-B05	1/2-20	2.75	2.00	.21	11/16	1/2
5/16	3/8	24706N-B06	5/8-18	2.91	2.00	.31	13/16	5/8
13/32	1/2	24708N-B08	3/4-18	3.63	2.50	.43	15/16	3/4

Inverted Male Swivel - Extended



Hose I.D.	Tube Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor†	Hole Dia.	Hex D	Hex F
5/16	1/4	24706N-B24	7/16-24	7.62	6.00	6.75	.15	13/16	7/16
5/16	5/16	24706N-B25	1/2-20	7.62	6.00	6.75	.21	13/16	1/2
5/16	3/8	24706N-B26	5/8-18	7.62	6.00	6.75	.24	13/16	5/8

K

Hose Ends - Field Attachable

Field Attachable

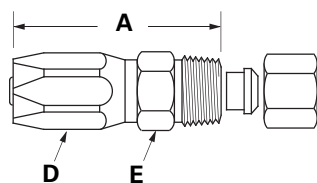
247 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal—both SAE 37° and 45° connections.

Flareless Tube Rigid Ermeto 7000 Series

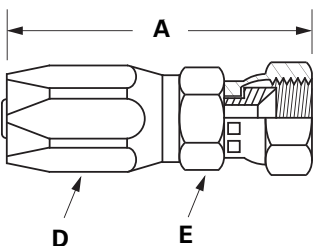
(With Nut and Sleeve)



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
5/16	1/4	24706N-754	7/16-20	2.02	1.13	.20	13/16	5/8
5/16	5/16	24706N-755	1/2-20	1.96	1.13	.23	13/16	5/8
5/16	3/8	24706N-756	9/16-18	1.98	1.13	.28	13/16	11/16
5/16	1/2	24706N-758	3/4-16	2.12	1.25	.28	13/16	13/16

JIC 37° Female Swivel

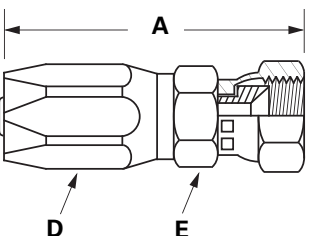
(Exceptions Noted)



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
3/16	1/4	24704N-604 ^a	7/16-20	2.01	1.31	.13	5/8	9/16
1/4	5/16	24705N-605 ^a	1/2-20	2.19	1.50	.18	11/16	5/8
5/16	1/4	24706N-604 ^a	7/16-20	2.19	1.31	.17	13/16	9/16
5/16	5/16	24706N-605 ^a	1/2-20	2.38	1.50	.25	13/16	5/8
5/16	3/8	24706N-606	9/16-18	2.35	1.50	.25	13/16	11/16
5/16	1/2	24706N-608 ^a	3/4-16	2.45	1.56	.39	13/16	7/8
13/32	1/2	24708N-608 ^a	3/4-16	2.82	1.75	.36	15/16	7/8
1/2	1/2	24710N-608 ^a	3/4-16	3.04	1.75	.39	1-1/8	7/8
1/2	5/8	24710N-610 ^a	7/8-14	3.04	1.75	.45	1-1/8	1
5/8	3/4	24712N-612	1-1/16-12	3.46	1.94	.55	1-1/4	1-1/4
7/8	1	24716N-616	1-5/16-12	3.21	2.00	.81	1-7/16	1-1/2

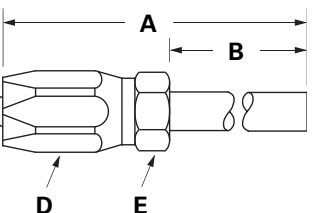
^a Swivel nuts are universal – both SAE 37° and 45° connections.

SAE 45° Flare Female Swivel



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
5/16	3/8	24706N-406	5/8-18	2.36	1.46	.25	13/16	3/4
13/32	3/8	24708N-406	5/8-18	2.65	1.56	.28	15/16	3/4
5/8	3/4	24712N-412	1-1/16-14	3.49	1.92	.55	1-1/4	1-1/4

Straight Tube – Extended



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
3/16	1/4	24704N-T54	5.22	3.75	4.50	.12	5/8	1/2
1/4	5/16	24705N-T55	6.33	4.80	5.56	.18	11/16	1/2
5/16	3/8	24706N-T56	7.42	5.80	6.50	.25	13/16	1/2
13/32	1/2	24708N-T58	8.78	6.69	7.63	.36	15/16	3/4

K

Hose Ends - Field Attachable

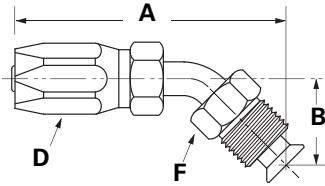
Field Attachable

247 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal—both SAE 37° and 45° connections.

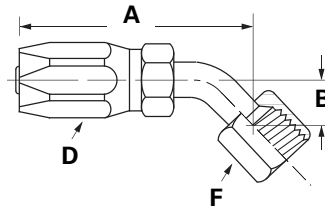
Inverted Male Swivel 45° Tube Elbow



Hose I.D.	Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
5/16	1/4	24705N-E45	1/2-20	3.42	1.14	2.63	.18	11/16	1/2

JIC 37° Female Swivel 45° Tube Elbow

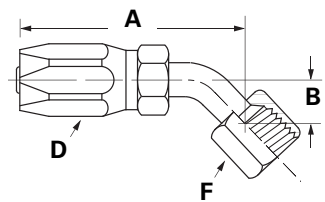
(Exceptions Noted for 45° Flare, Refer to Footnotes)



Hose I.D.	Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/16	1/4	24704N-684 ^a	7/16-20	1.85	.33	1.10	.12	5/8	9/16
1/4	5/16	24705N-685 ^a	1/2-20	2.07	.36	1.29	.18	11/16	5/8
5/16	3/8	24706N-686	9/16-18	2.29	.39	1.33	.25	13/16	11/16
13/32	1/2	24708N-688 ^a	3/4-16	2.99	.55	1.84	.33	15/16	7/8
1/2	5/8	24710N-690 ^a	7/8-14	3.24	.63	1.95	.45	1-1/8	1
5/8	3/4	24712N-692	1-1/16-12	3.778	.78	2.21	.55	1-1/4	1-1/4
7/8	1	24716N-696	1-5/16-12	4.21	1.07	2.85	.76	1-7/16	1-7/16

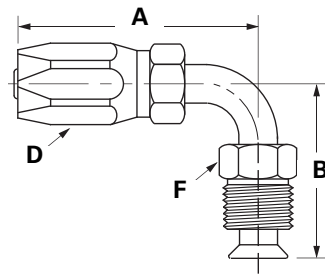
^a Swivel nuts are universal – both SAE 37° and 45° connections.

SAE 45° Female Swivel 45° Tube Elbow



Hose I.D.	Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
5/16	1/4	24706N-484	7/16-20	2.61	.33	1.75	.25	13/16	5/8
5/16	3/8	24706N-486	5/8-18	2.23	.45	1.33	.25	13/16	3/4
5/8	3/4	24712N-492	1-1/16-14	3.78	.80	2.21	.55	1-1/4	1-1/4

Inverted Male Swivel 90° Tube Elbow



Hose I.D.	Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/16	1/4	24704N-E04	7/16-24	2.36	1.69	1.62	.18	5/8	7/16
1/4	5/16	24705N-E05	1/2-20	2.53	1.69	1.75	.24	11/16	1/2
5/16	1/4	24706N-E04	7/16-24	2.41	1.36	1.50	.18	7/8	7/16
5/16	5/16	24706N-E05	1/2-20	2.63	1.69	1.73	.24	7/8	1/2
5/16	3/8	24706N-E06	5/8-18	2.63	1.73	1.73	.30	7/8	5/8

K

Hose Ends - Field Attachable

Field Attachable

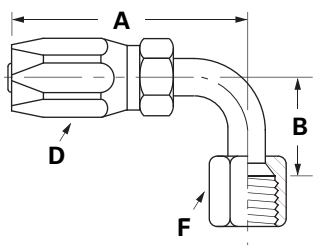
247 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal — both SAE 37° and 45° connections.

JIC 37° Female Swivel 90° Tube Elbow

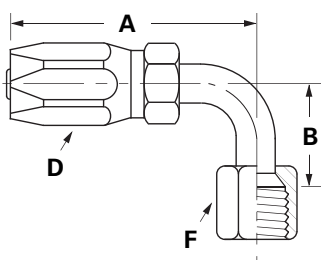
(Exceptions Noted)



Hose I.D.	Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/16	1/4	24704N-664 ^a	7/16-20	1.74	.68	0.99	.12	5/8	9/16
1/4	5/16	24705N-665 ^a	1/2-20	1.96	.77	1.18	.18	11/16	5/8
5/16	3/8	24706N-666	9/16-18	2.13	.85	1.23	.25	13/16	11/16
13/32	1/2	24708N-668 ^a	3/4-16	2.76	1.09	1.61	.36	15/16	7/8
1/2	1/2	24710N-668 ^a	3/4-16	2.91	1.09	1.62	.45	15/16	7/8
1/2	5/8	24710N-670 ^a	7/8-14	2.94	1.23	1.65	.45	1-1/8	1
5/8	3/4	24712N-672	1-1/16-12	3.74	1.82	2.17	.55	1-1/4	1-1/4
7/8	1	24716N-676	1-5/16-12	3.55	2.39	2.28	.81	1-7/16	1-1/2

^a Swivel nuts are universal — both SAE 37° and 45° connections.

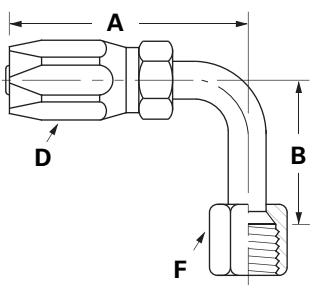
SAE 45° Female Swivel 90° Tube Elbow



Hose I.D.	Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
5/16	3/8	24706N-466	5/8-18	2.13	.85	1.23	.25	13/16	3/4
5/8	3/4	24712N-472	1-1/16-14	3.74	1.82	2.17	.55	1-1/4	1-1/4

JIC 37° Female Swivel Long Drop 90° Tube Elbow

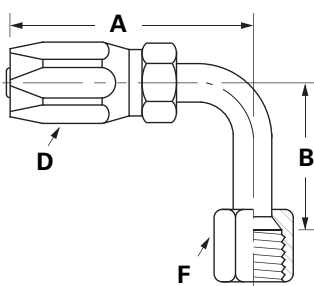
(Exceptions Noted)



Hose I.D.	Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/16	1/4	24704N-644 ^a	7/16-20	1.74	1.80	0.99	.15	5/8	9/16
1/4	5/16	24705N-645 ^a	1/2-20	1.96	1.77	1.18	.21	11/16	5/8
5/16	3/8	24706N-646	9/16-18	2.13	2.18	1.23	.24	13/16	11/16
13/32	1/2	24708N-648 ^a	3/4-16	2.88	2.43	1.73	.33	15/16	7/8
1/2	5/8	24710N-650 ^a	7/8-14	3.19	2.57	1.90	.46	1-1/8	1
5/8	3/4	24712N-652	1-1/16-12	3.74	3.73	2.17	.58	1-1/4	1-1/4
7/8	1	24716N-656	1-5/16-12	3.55	4.58	2.28	.76	1-7/16	1-1/2

^a Swivel nuts are universal — both SAE 37° and 45° connections.

SAE 45° Female Swivel Long Drop 90° Tube Elbow



Hose I.D.	Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
5/16	1/4	24706N-444	7/16-20	2.54	1.80	1.63	.15	13/16	5/8
5/16	3/8	24706N-446	5/8-18	2.13	2.18	1.23	.24	13/16	3/4
5/8	3/4	24712N-452	1-1/16-14	3.74	3.73	2.17	.58	1-1/4	1-1/4

K

Hose Ends - Field Attachable

Field Attachable

425 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal — both SAE 37° and 45° connections.

Hose End 425 'N' Series

Ordering Information: Order individually by part number. Order o-rings by catalog number; reference individual hose listing for details. For split flange kits, reference pages L-89-92.

Application:

High pressure hydraulic applications such as construction, farm implement and industrial equipment.

Compatible Hose: H425

Pressure: Determined by maximum working pressure for hose size. See pages A-15-16 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; clear trivalent chromate

Advantages: Good selection of hose ends. Non-mandrel assembly. Wide variety of applications because of its use with H425 hose.

Assembly Instructions:

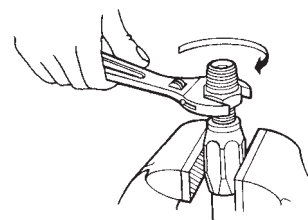
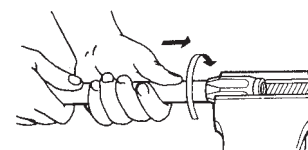
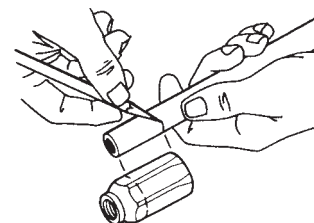
Due to the high torque required to assemble larger sizes, it is recommended that 425 'N' Series hose ends be assembled with the T-300 assembly machine (page N-71).

1. Lubricate insert threads and I.D. of hose.
2. Measure from end of hose and mark the socket depth. Use notch on socket or see insertion depth chart below.
3. Screw hose into socket (left-hand thread) to the depth marked on hose.
4. Screw insert into socket until insert touches socket.

Label Set: FS-700

Note:

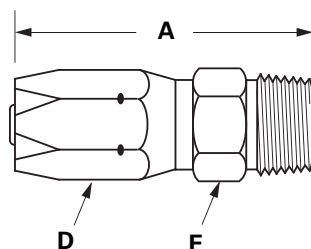
Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.



Insertion Depth

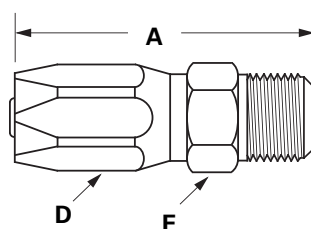
Hose I.D.	Screw Hose Into Socket
1/4	1"
3/8	1-5/32"
1/2	1-3/16"
3/4	1-5/16"
1	1-9/16"
1-1/4	1-7/8"
1-1/2	2"
2	1-15/16"

Male Pipe Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
1/4	1/8	42504N-102	1/8-27	2.18	1.19	0.17	13/16	7/16
1/4	1/4	42504N-104	1/4-18	2.36	1.38	.17	13/16	9/16
3/8	1/4	42506N-104	1/4-18	2.50	1.31	.27	15/16	9/16
3/8	3/8	42506N-106	3/8-18	2.53	1.38	.27	15/16	11/16
1/2	3/8	42508N-106	3/8-18	2.58	1.38	.39	1-1/16	11/16
1/2	1/2	42508N-108	1/2-14	2.83	1.63	.39	1-1/16	7/8
1/2	3/4	42508N-112	3/4-14	2.86	1.69	.39	1-1/16	1-1/16
3/4	3/4	42512N-112	3/4-14	2.98	1.69	.61	1-3/8	1-1/16
1	1	42516N-116	1-11-1/2	3.59	2.00	.81	1-3/4	1-3/8
1-1/4	1-1/4	42520N-120	1-1/4-11-1/2	4.37	2.44	1.05	2-1/4	1-11/16
1-1/2	1-1/2	42524N-124	1-1/2-11-1/2	4.71	2.69	1.28	2-1/2	2

JIC 37° Male Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
1/4	1/4	42504N-504	7/16-20	2.35	1.38	.17	13/16	9/16
1/4	5/16	42504N-505	1/2-20	2.35	1.38	.17	13/16	9/16
1/4	3/8	42504N-506	9/16-18	2.39	1.38	.17	13/16	5/8
3/8	3/8	42506N-506	9/16-18	2.53	1.38	.27	15/16	5/8
3/8	1/2	42506N-508	3/4-16	2.69	1.50	.27	15/16	13/16
1/2	1/2	42508N-508	3/4-16	2.74	1.56	.39	1-1/16	13/16
1/2	5/8	42508N-510	7/8-14	2.87	1.69	.39	1-1/16	15/16
3/4	3/4	42512N-512	1-1/16-12	3.09	1.75	.61	1-3/8	1-1/8
1	1	42516N-516	1-5/16-12	3.56	1.94	.81	1-3/4	1-3/8

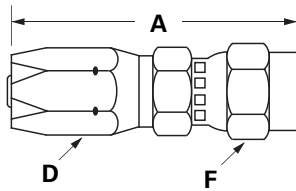
Field Attachable

425 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal — both SAE 37° and 45° connections.

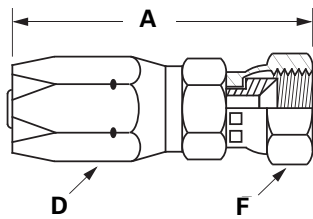
Female Pipe Swivel



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
1/2	1/2	42508N-258	1/2-14	3.89	2.75	.39	1-1/16	1-1/8
3/4	3/4	42512N-262	3/4-14	4.09	2.81	.61	1-3/8	1-3/8

Note:
Swivel for installation purposes only.
(Not for temperatures above 200°F.)

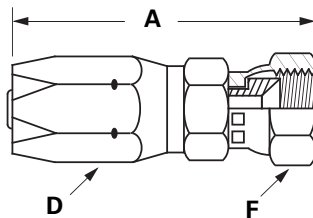
JIC 37° Female Swivel (Exceptions Noted)



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
1/4	1/4	42504N-604 ^a	7/16-20	2.49	1.50	.17	13/16	9/16
1/4	5/16	42504N-605 ^a	1/2-20	2.59	1.56	.17	13/16	5/8
1/4	3/8	42504N-606	9/16-18	2.65	1.63	.17	13/16	11/16
3/8	3/8	42506N-606	9/16-18	2.79	1.63	.27	15/16	11/16
3/8	1/2	42506N-608 ^a	3/4-16	2.96	1.81	.27	15/16	7/8
1/2	1/2	42508N-608 ^a	3/4-16	3.01	1.81	.39	1-1/16	7/8
1/2	5/8	42508N-610 ^a	7/8-14	3.02	1.88	.39	1-1/16	1
3/4	5/8	42512N-610 ^a	7/8-14	3.14	1.88	.48	1-3/8	1
3/4	3/4	42512N-612	1-1/16-12	3.26	2.00	.61	1-3/8	1-1/4
3/4	7/8	42512N-614	1-3/16-12	3.38	2.06	.61	1-3/8	1-3/8
1	1	42516N-616	1-5/16-12	4.19	2.63	.81	1-3/4	1-1/2
1-1/4	1-1/4	42520N-620	1-5/8-12	4.76	2.75	1.08	2-1/4	2
1-1/2	1-1/2	42524N-624	1-7/8-12	5.04	3.00	1.28	2-1/2	2-1/4

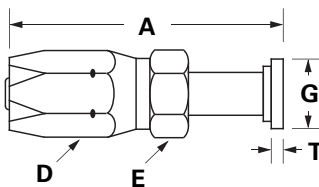
^a Swivel nuts are universal — both SAE 37° and 45° connections.

SAE 45° Female Swivel



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
3/8	3/8	42506N-406	5/8-18	2.67	1.50	.27	15/16	3/4
3/4	3/4	42512N-412	1-1/16-14	3.27	2.00	.61	1-3/8	1-1/4

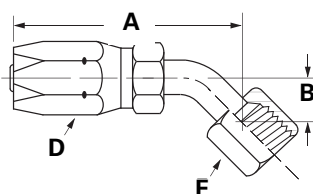
Split Flange Straight (SAE Code 61)



Hose I.D.	Nom. Pipe Size	Part Number	Replacement O-Ring (Not Included)	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E	G	T
3/4	3/4	42512N-G12	12x252	3.81	2.50	.58	1-3/8	1-15/16	1.50 (38 mm)	.265
1	1	42516N-G16	16x252	4.02	2.50	.76	1-3/4	1-1/4	1.75 (44 mm)	.315
1-1/4	1-1/4	42520N-G20	20x252	5.32	3.50	1.01	2-1/4	1-5/8	2.00 (51 mm)	.315

(For Split Flange Kits, see pages L-89 thru L-92.)

JIC 37° Female Swivel 45° Tube Elbow (Refer to Footnotes)



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
1/4	1/4	42504N-684 ^a	7/16-20	2.86	.33	1.81	.15	13/16
3/8	3/8	42506N-686	9/16-18	3.15	.39	2.00	.25	15/16
1/2	1/2	42508N-688 ^a	3/4-16	3.46	.56	2.25	.36	1-1/16
1/2	5/8	42508N-690 ^a	7/8-14	3.92	.64	2.50	.36	1-1/16
3/4	3/4	42512N-692	1-1/16-12	4.17	.73	2.88	.55	1-3/8
1	1	42516N-696	1-5/16-12	5.42	1.10	3.75	.76	1-3/4

^a Swivel nuts are universal — both SAE 37° and 45° connections.

K

Hose Ends - Field Attachable

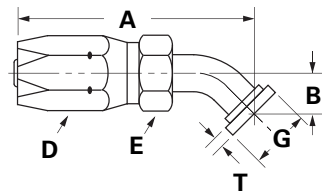
Field Attachable

425 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal — both SAE 37° and 45° connections.

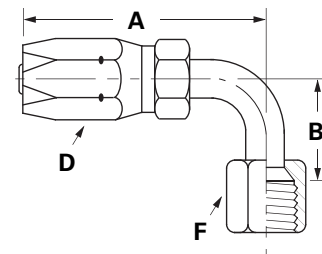
Split Flange 45° Tube Elbow (SAE Code 61)



Hose I.D.	Nom. Pipe Size	Part Number	Replacement O-Ring (Not Included)	A	B	Hose Cut-Off Factor	Hex D	Hex E	G	T
3/4	3/4	42512N-G42	12x252	4.47	1.00	.58	1-3/8	15/16	1.50 (38 mm)	.265
1	1	42516N-G46	16x252	5.15	1.06	.76	1-3/4	1-1/4	1.75 (44 mm)	.315
1-1/4	1-1/4	42520N-G50	20x252	5.32	1.15	1.01	2-1/4	1-5/8	2.00 (51 mm)	.315

(For Split Flange Kits, see pages L-89 thru L-92.)

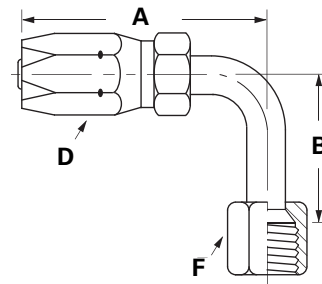
JIC 37° Female Swivel 90° Tube Elbow (Refer to Footnotes)



Hose I.D.	Nom. Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
1/4	1/4	42504N-664 ^a	7/16-20	2.71	.68	1.69	.15	13/16	9/16
3/8	3/8	42506N-666	9/16-18	3.12	.85	1.94	.24	15/16	11/16
1/2	1/2	42508N-668 ^a	3/4-16	3.33	1.09	2.13	.33	1-1/16	7/8
1/2	5/8	42508N-670 ^a	7/8-14	3.57	1.23	2.38	.39	1-1/16	1
3/4	3/4	42512N-672	1-1/16-12	4.26	1.85	2.94	.58	1-3/8	1-1/4
1	1	42516N-676	1-5/16-12	5.14	2.14	3.56	.81	1-3/4	1-1/2

^a Swivel nuts are universal — both SAE 37° and 45° connections.

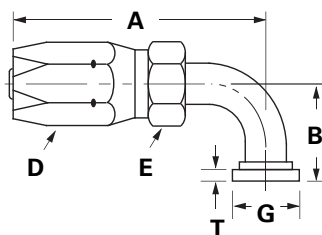
JIC 37° Female Swivel Long Drop 90° Tube Elbow (Refer to Footnotes)



Hose I.D.	Nom. Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
1/4	1/4	42504N-644 ^a	7/16-20	2.76	1.80	1.75	.15	13/16	9/16
3/8	3/8	42506N-646	9/16-18	3.17	2.18	2.00	.24	15/16	11/16
1/2	1/2	42508N-648 ^a	3/4-16	3.40	2.45	2.19	.33	1-1/16	7/8
3/4	3/4	42512N-652	1-1/16-12	4.08	3.75	2.75	.58	1-3/8	1-1/4

^a Swivel nuts are universal — both SAE 37° and 45° connections.

Split Flange 90° Tube Elbow (SAE Code 61)



Hose I.D.	Nom. Pipe Size	Part Number	Replacement O-Ring (Not Included)	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E	G	T
3/4	3/4	42512N-G72	12x252	3.95	2.13	2.75	.58	1-3/8	15/16	1.50 (38 mm)	.265
3/4	1	42512N-G76	16x252	4.06	2.13	2.75	.58	1-3/8	15/16	1.75 (44 mm)	.315
1	1	42516N-G76	16x252	4.81	2.38	3.25	.88	1-3/4	1-1/4	1.75 (44 mm)	.315
1-1/4	1-1/4	42520N-G80	20x252	5.47	2.62	3.56	1.03	2-1/4	1-5/8	2.00 (51 mm)	.315
1-1/4	1-1/2	42520N-G84	24x252	5.49	2.75	3.63	1.05	2-1/4	1-7/8	2.37 (60 mm)	.315

(For Split Flange Kits, see pages L-89 thru L-92.)

K

Hose Ends - Field Attachable

Field Attachable

436 'N' Series

Hose End 436 'N' Series

Ordering Information:

Order individually by catalog number.

 Refer to important safety information on pages A-2-3.

Application: Medium pressure hydraulic applications where compatibility may be a problem or where shock hazards exist.

Compatible Hose: H435; H436; H435 and H436 Twinline.

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See pages A-15-16 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; clear trivalent chromate

Advantages:

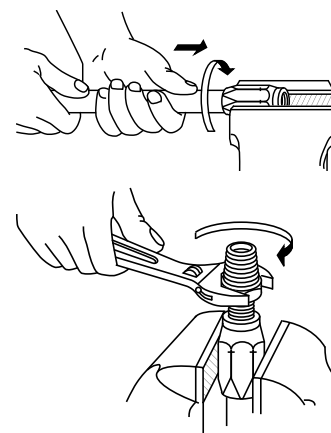
Good selection of hose ends. Non-mandrel assembly.

Assembly Instructions:

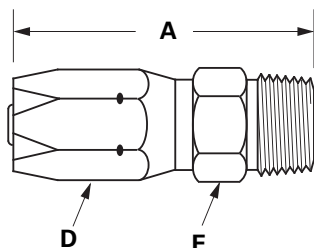
1. Lubricate insert threads and I.D. of hose.
2. Screw hose into socket (left-hand thread) until hose bottoms. Back out 1/4 turn.
3. Screw insert into socket until insert touches socket.

Note:

Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

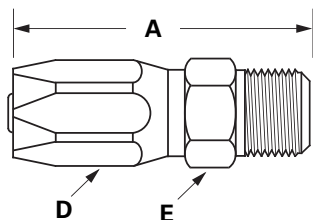


Male Pipe Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
1/4	1/4	43604N-104	1/4-18	1.96	1.13	.18	5/8	9/16
3/8	1/4	43604N-104	1/4-18	2.50	1.31	.27	7/8	9/16
3/8	3/8	43604N-106	3/8-18	2.53	1.38	.27	7/8	11/16
1/2	3/8	43604N-106	3/8-18	2.58	1.31	.39	1-1/16	11/16
1/2	1/2	43604N-108	1/2-14	2.83	1.56	.39	1-1/16	7/8
3/4	3/4	43604N-112	3/4-14	2.98	1.63	.61	1-3/8	1-1/16
1	1	43604N-116	1-11-1/2	3.59	1.94	.81	1-11/16	1-3/8

JIC 37° Male Rigid



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
1/4	1/4	43604N-504	7/16-20	1.99	1.19	.17	5/8	1/2
1/4	5/16	43604N-505	1/2-20	1.96	1.19	.18	5/8	9/16
3/8	3/8	43606N-506	9/16-18	2.53	1.38	.27	7/8	5/8
3/8	1/2	43606N-508	3/4-16	2.69	1.50	.27	7/8	13/16
1/2	1/2	43608N-508	3/4-16	2.74	1.50	.39	1-1/16	13/16
1/2	5/8	43608N-510	7/8-14	2.87	1.63	.39	1-1/16	15/16

K

Hose Ends - Field Attachable

Field Attachable

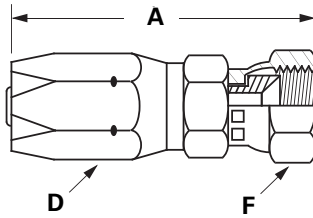
436 'N' Series

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal — both SAE 37° and 45° connections.

SAE 37° Female Swivel

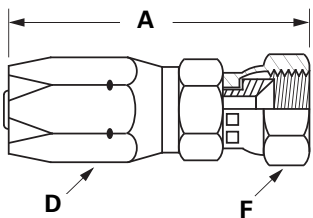
(Exceptions Noted)



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
1/4	1/4	43604N-604 ^a	7/16-20	2.13	1.31	.17	5/8	9/16
1/4	5/16	43604N-605 ^a	1/2-20	2.23	1.44	.18	5/8	5/8
1/4	3/8	43604N-606	9/16-18	2.24	1.44	.18	5/8	11/16
3/8	3/8	43606N-606	9/16-18	2.79	1.63	.27	7/8	11/16
3/8	1/2	43606N-608 ^a	3/4-16	2.96	1.81	.27	7/8	7/8
1/2	1/2	43608N-608 ^a	3/4-16	3.01	1.75	.39	1-1/16	7/8
1/2	5/8	43608N-610 ^a	7/8-14	3.02	1.75	.39	1-1/16	1
3/4	3/4	43612N-612	1-1/16-12	3.27	1.88	.61	1-3/8	1-1/4
1	1	43616N-616	1-5/16-12	3.83	2.19	.81	1-11/16	1-1/2

^a Swivel nuts are universal — both SAE 37° and 45° connections.

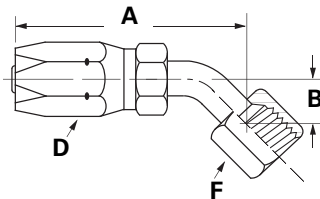
SAE 45° Female Swivel



Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
3/8	3/8	43606N-406	5/8-18	2.67	1.50	.27	7/8	3/4

JIC 37° Female Swivel 45° Tube Elbow

(Refer to Footnotes)

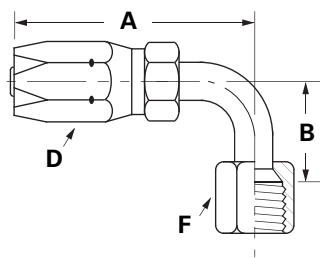


Hose I.D.	Pipe Size	Part Number	Thread Size	A	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex E
1/4	1/4	43604N-684 ^a	7/16-20	2.49	0.33	1.69	5/8	9/16

^a Swivel nuts are universal — both SAE 37° and 45° connections.

JIC 37° Female Swivel 90° Tube Elbow

(Refer to Footnotes)



Hose I.D.	Nom. Pipe Size	Part Number	Thread Size	A	B	Hose Cut-Off Factor	Hole Dia.	Hex D	Hex F
1/4	1/4	43604N-664 ^a	7/16-20	2.42	.68	1.63	.18	5/8	9/16
3/8	3/8	43606N-666	9/16-18	3.02	.85	1.88	.24	7/8	11/16
1/2	1/2	43608N-668 ^a	3/4-16	3.28	1.09	2.00	.33	1-1/16	7/8

^a Swivel nuts are universal — both SAE 37° and 45° connections.

K

Hose Ends - Field Attachable

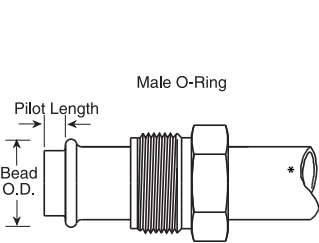
E-Z Clip System™ - End Connections & O-rings

How to Identify O-ring Pilot Thread Sizes

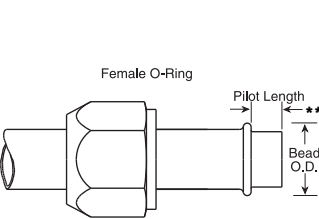
This connection is common to air conditioning systems, both in vehicle and commercial applications. Both the male and female halves of the connections have a pilot, either long or short. The seal

takes place by compressing an O-ring adjacent to the bead of the tube. The threads hold the connection together mechanically.

Label Set: FF90646



Inch Size	Dash Size	Male Thread O.D. (in)			Female Thread I.D. (in)		
		Nominal Thread	Fraction	Decimal	Nominal Thread	Fraction	Decimal
3/8	06	5/8 - 18	5/8	.62	5/8 - 18	9/16	.57
1/2	08	3/4 - 18	3/4	.75	3/4 - 16	11/16	.69
5/8	10	7/8 - 18	7/8	.87	7/8 - 14	13/16	.81
3/4	12	1-1/16 -16	1-1/16	1.06	1-1/16 -16	1-1/16	.99



Inch Size	Nominal Tube Size	Long Pilot**		Short Pilot*	
		O.D. (in)	Bead Pilot Length	O.D. (in)	Bead Pilot Length
3/8	06	.52	.28	.52	.19
1/2	08	.64	.39	.64	.19
5/8	10	.77	.39	.77	.19
3/4	12	.91	.39	.91	.19

Refrigerant Compatibility Chart

Refrigerant	Hose Style GH134W
R-12	Y
R-22	Y
R-134a	Y
R-502	Y
MP39	Y
MP66	Y
R404a	Y

Lubricant Compatibility Chart

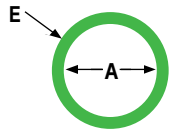
Lubricant	Hose Style GH134w
Mineral Oil	Y
PAG	Y
Ester Oil	Y
Alkylbenzene	*
Y = Compatible N = Non-compatible	
* Contact product support for application review	

Tubing Identification

Size	Tubing Style	Wall Thickness
-6	SAE J526	0.035
-0608	SAE J526	0.035
-8	SAE J526	0.035
-0810	SAE J526	0.035
-10	SAE J525	0.049
-1012	SAE J525	0.049
-12	SAE J525	0.049
-16	SAE J525	0.0625

E-Z Clip System™ - End Connections & O-rings

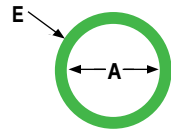
O-Rings for Bump Tube O-Ring Seal and O-Ring Pilot Fittings



FF90178

Material: HNBR
Durometer: 70
Temperature Range: -25°F to +300°F
Color: Green

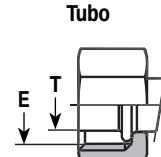
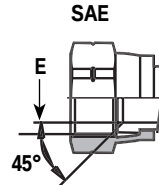
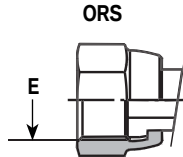
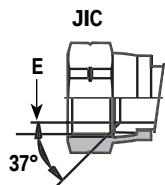
O-ring Part Number	O-ring Pilot Dash Size	A	E
FF90178-11	-06	.301	.0625
FF90178-13	-08	.426	.0625
FF90178-15	-10	.551	.0625
FF90178-17	-12	.676	.0625



ZW74706

Material: HNBR
Durometer: 70
Temperature Range: -40°F to +250°F
Color - Green

O-ring Part Number	O-ring Pilot Dash Size	A	E
ZW74706	-06	.301	.07
ZW74708	-08	.426	.07
ZW74710	-10	.551	.07
ZW74712	-12	.676	.07



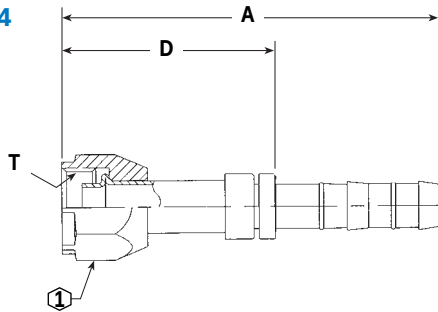
Size	JIC Thread	ORS Thread	ØE	SAE Thread	ØE	Tubo Thread	ØE	ØT
-4	7/16-20	9/16-18	12,9	7/16-20	—	—	—	—
-6	9/16-18	11/16-16	15,9	5/8-18	14,5	5/8-18	14,5	8,4
-8	3/4-16	13/16-16	19,1	3/4-16	17,5	3/4-16	17,5	11,6
-10	7/8-14	1-14	23,6	7/8-14	20,5	7/8-14	20,5	14,4
-12	1-1/16-12	1-3/16-12	28,1	1-1/16-14	25,2	1-1/16-14	25,2	17,5
-16	1-5/16-12	1-7/16-12	34,5	—	—	—	—	—
-20	—	1-11/16-12	40,7	—	—	—	—	—
-24	—	—	—	—	—	—	—	—

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

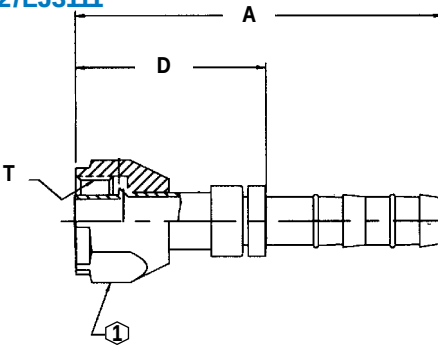
FJ5984



Straight - Female O-ring (Short Pilot)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ5984-0606S	5/8-18	6	3.14	1.62	—	—	0.75
FJ5984-0608S	5/8-18	8	3.16	1.62	—	—	0.75
FJ5984-0808S	3/4-16	8	3.56	2.02	—	—	0.88
FJ5984-0810S	3/4-16	10	3.57	2.02	—	—	0.88
FJ5984-1008S	7/8-14	8	3.62	2.08	—	—	0.88
FJ5984-1010S	7/8-14	10	3.63	2.08	—	—	1.06
FJ5984-1012S	7/8-14	12	3.66	2.08	—	—	1.06
FJ5984-1210S	1-1/16-14	10	4.25	2.62	—	—	1.25
FJ5984-1212S	1-1/16-14	12	4.25	2.67	—	—	1.25
FJ5984-1016S	7/8-14	16	3.76	2.08	—	—	1.06
FJ5984-1216S	1-1/16-14	16	4.35	2.67	—	—	1.25

FJ3632/EJ3111

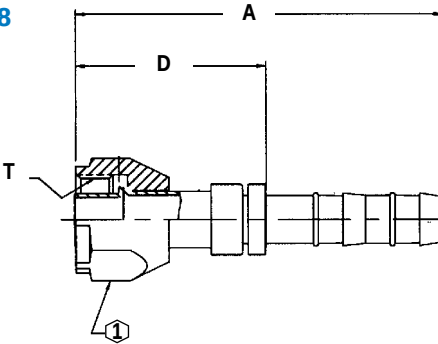


Straight - Female O-ring (Long Pilot)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3632-0806S	3/4-16	6	2.91	1.36	—	—	0.88
EJ3111-1216S	1-1/16-14	16	4.35	2.67	—	—	1.25
EJ3111-1016S*	7/8-14	16	3.76	2.08	—	—	1.06

* MTO (made to order)

FJ3408

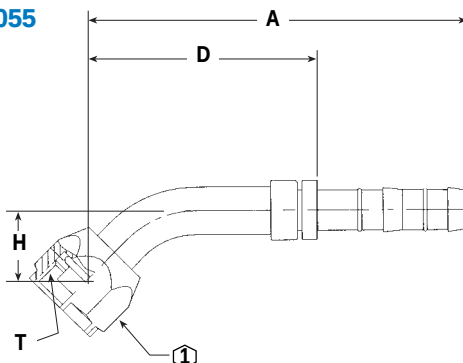


Straight - Female O-ring, Metric Thread (Long Pilot)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3408-0808S	M20 x 1.5	8	3.20	1.66	—	—	0.94
FJ3408-0810S	M20 x 1.5	10	3.21	1.66	—	—	0.94
FJ3408-1212S	M27 x 2	12	4.25	2.67	—	—	1.25

K

FJ3055



45° Elbow Female O-ring (Short Pilot)

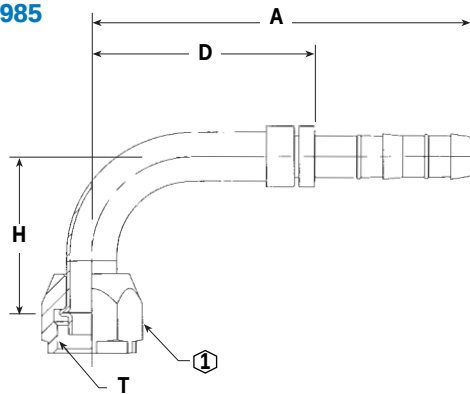
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3055-01-0606S	5/8-18	6	3.60	2.08	—	0.67	0.75
FJ3055-02-0608S	5/8-18	8	3.62	2.08	—	0.67	0.75
FJ3055-03-0808S	3/4-16	8	3.94	2.40	—	0.73	0.88
FJ3055-04-0810S	3/4-16	10	3.95	2.40	—	0.73	0.88
FJ3055-05-1010S	7/8-14	10	4.37	2.81	—	1.19	1.06
FJ3055-06-1012S	7/8-14	12	4.46	2.88	—	1.25	1.06
FJ3055-07-1212S	1-1/16-14	12	5.33	3.75	—	1.47	1.25
FJ3055-09-1216S*	1-1/16-14	16	5.43	3.15	—	1.47	1.25
FJ3055-08-1016S	7/8-14	16	4.56	2.66	—	1.25	1.06

* MTO (made to order)

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

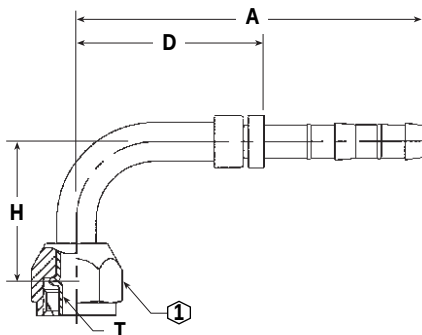
FJ5985



90° Elbow - Female O-ring (Short Pilot)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ5985-0606S	5/8-18	6	3.32	1.79	—	1.38	0.75
FJ5985-0608S	5/8-18	8	3.33	1.79	—	1.38	0.75
FJ5985-0806S	3/4-16	6	3.86	2.33	—	1.62	0.88
FJ5985-0808S	3/4-16	8	3.77	2.23	—	1.62	0.88
FJ5985-0810S	3/4-16	10	3.78	2.23	—	1.62	0.88
FJ5985-1010S	7/8-14	10	4.22	2.67	—	1.89	1.06
FJ5985-1012S	7/8-14	12	4.24	2.67	—	1.89	1.06
FJ5985-1210S	1-1/16-14	10	4.76	3.31	—	2.56	1.25
FJ5985-1212S	1-1/16-14	12	4.74	3.16	—	2.56	1.25
FJ5985-1216S	1-1/16-14	16	4.84	3.16	—	2.56	1.25

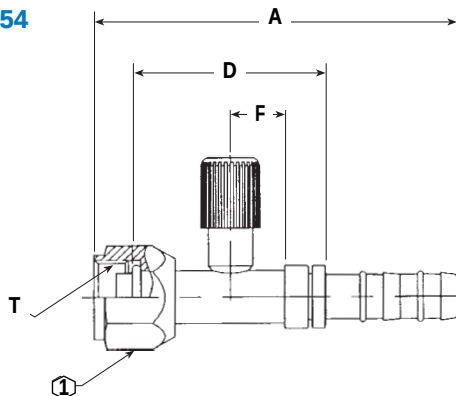
FJ3288



90° Female O-ring (Long Pilot)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3288-01-0606S	5/8-18	6	3.32	1.79	—	1.38	0.75
FJ3288-02-0808S	3/4-16	8	3.77	2.23	—	1.62	0.88
FJ3288-03-0806S	3/4-16	6	3.75	2.33	—	1.62	0.88
FJ3288-04-0810S	3/4-16	10	3.78	2.23	—	1.62	0.88
FJ3288-06-1216S	1-1/16-14	16	4.84	3.16	—	2.56	1.25
FJ3288-05-1016S	7/8-14	16	4.40	2.72	—	1.89	1.06
FJ3288-07-1012S	7/8-14	12	4.24	2.67	—	1.89	1.06
FJ3288-08-1212S	1-1/16-14	12	4.74	3.16	—	2.56	1.25
FJ3288-11-1010S	7/8-14	16	4.22	2.67	—	1.89	1.06

FJ3054

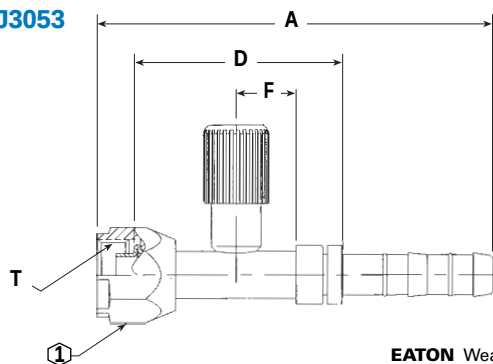


Straight - Female O-ring (Short Pilot) with R134a Low Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3054-1010S	7/8-14	10	4.24	2.25	0.63	—	1.06
FJ3054-1012S	7/8-14	12	4.27	2.25	0.63	—	1.06
FJ3054-1212S	1-1/16-14	12	4.58	2.43	0.54	—	1.25
FJ3054-1216S*	1-1/16-14	16	4.68	2.43	0.54	—	1.25

* MTO (made to order)

FJ3053

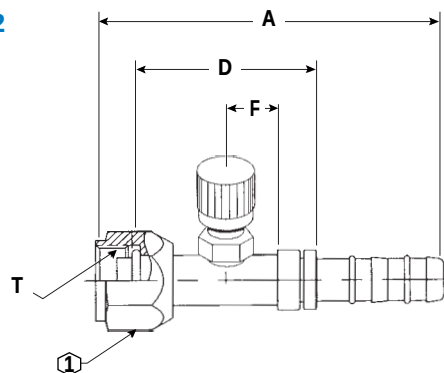


Straight - Female O-ring (Short Pilot) with R134a High Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3053-0606S	5/8-18	6	3.91	2.10	0.63	—	0.75
FJ3053-0806S	3/4-16	6	4.06	2.26	0.63	—	0.88
FJ3053-0808S	3/4-16	8	4.09	2.16	0.63	—	0.88
FJ3053-0810S	3/4-16	10	4.09	2.16	0.63	—	0.88

E-Z Clip System™ - Hose Ends

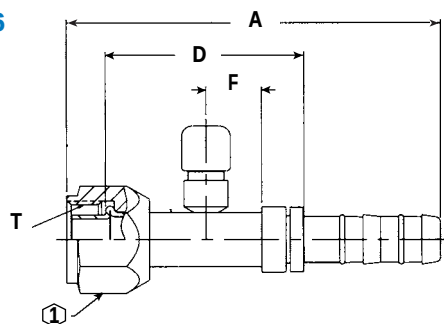
FJ3162



Straight - Female O-ring (Long Pilot) with Switch Port (7/16-20 thd)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3162-0808S	3/4-16	8	4.09	2.16	0.79	—	0.88
FJ3162-1010S	7/8-14	10	4.25	2.25	0.79	—	1.06
FJ3162-1012S	7/8-14	12	4.27	2.25	0.79	—	1.06
FJ3162-1212S	1-1/16-14	12	4.86	2.71	0.79	—	1.25
FJ3162-1016S	7/8-14	16	4.42	2.30	0.79	—	1.06

FJ3416

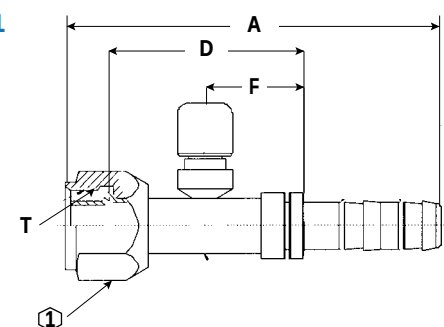


Straight - Female O-ring (Long Pilot) with Switch Port (M10 X 1.25)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3416-01-1010S	7/8-14	10	4.25	2.25	.63	—	1.06
FJ3416-02-0808S*	7/8-14	8	4.25	2.25	.63	—	1.06

* MTO (made to order)

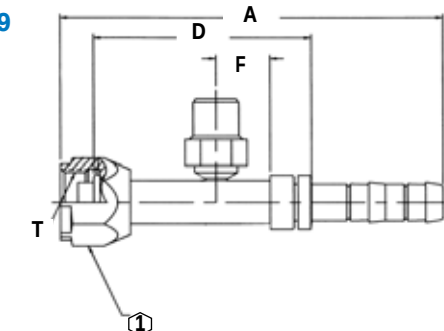
FJ3461



Straight - Female O-ring (Long Pilot) with Switch Port (M12 X 1.25)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3461-01-1010S	7/8-14	10	4.25	2.25	.63	—	1.06
FJ3461-02-1012S	7/8-14	12	4.27	2.25	.63	—	1.06
FJ3461-03-1212S	1-1/16-14	12	4.86	2.71	.54	—	1.25

EJ3299



Straight - Female O-ring (Short Pilot) with Switch Port (M12 X 1.25)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
EJ3299-01-0808S	3/4-16	8	4.46	2.53	.63	—	.88

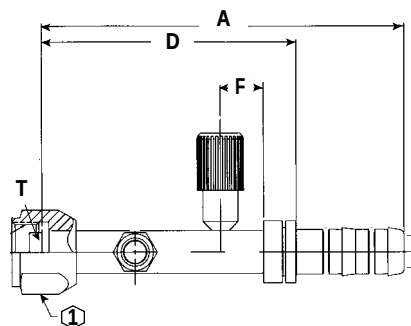
* MTO (made to order)

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

FJ3363

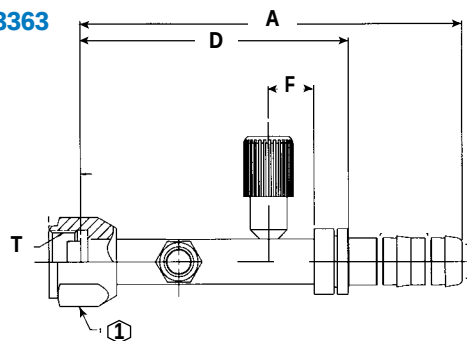


Straight – Female O-ring (Short Pilot), with R134a High Side Port and Female Switch Connection, (1/8-27 Thread)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3363-03-0808S*	3/4-16	8	5.16	3.62	.63	—	.88
FJ3363-02-0810S*	3/4-16	10	5.54	3.62	.63	—	.88

* MTO (made to order)

FJ3363

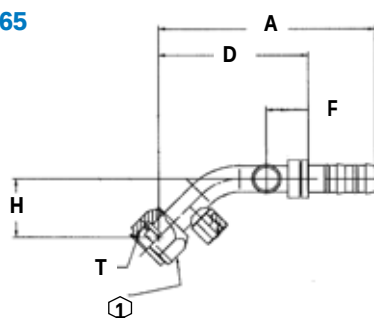


Straight – Female O-ring (Short Pilot), with R134a Low Side Port and Female Switch Connection, (1/8-27 Thread)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3363-01-1012S	7/8-14	12	5.30	3.72	.63	—	1.06

* MTO (made to order)

FJ3365

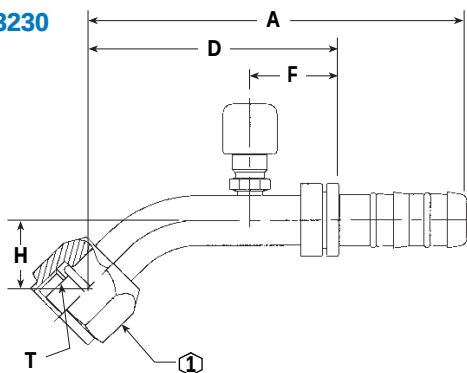


45° Female O-ring (Short Pilot) with R134a Low Side Port and Switch Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3365-01-1012S*	7/8-14	12	5.09	3.51	0.50	1.43	1.13

* MTO (made to order)

FJ3230



45° Female O-ring (Long Pilot) with Switch Port (7/16-20 thd)

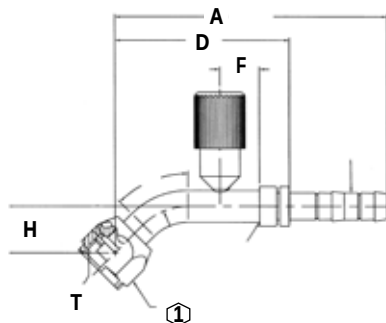
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3230-01-0810S	3/4-16	10	4.61	2.58	0.63	0.80	0.88
FJ3230-02-1012S	7/8-14	12	4.73	2.67	0.63	0.89	1.06
FJ3230-03-0808S	3/4-16	8	4.43	2.40	0.63	0.73	0.88
FJ3230-04-1010S	7/8-14	10	5.00	2.97	0.63	1.19	1.06
FJ3230-05-1016S	7/8-14	16	4.88	2.67	0.63	0.89	1.06

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

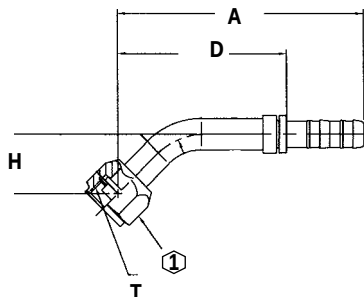
EJ3410



45° Female O-ring (Short Pilot) with R134a High Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
EJ3410-0808S	3/4-16	8	4.3	2.76	0.62	0.73	0.88

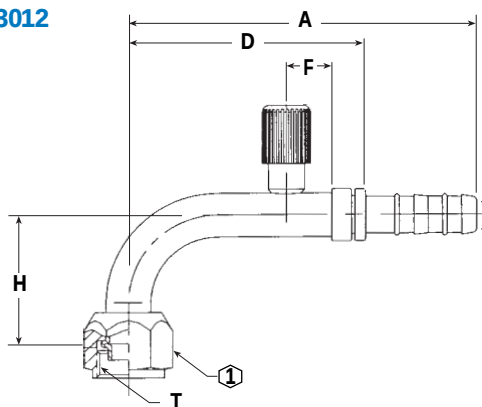
EJ3543



45° Female O-ring (Short Pilot) with R134a Low Side Port (Rotated 270°)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
EJ3543-1010S	7/8-14	10	4.99	3.44	0.52	1.19	1.06

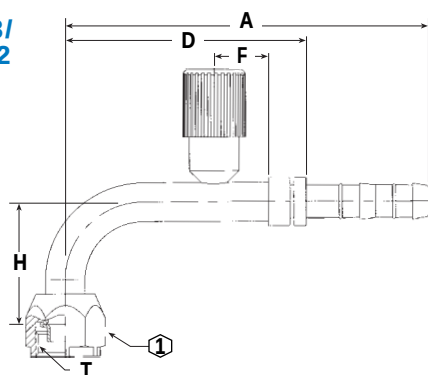
FJ3012



90° Female O-ring (Short Pilot) with R134a Low Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3012-02-1010S	7/8-14	10	4.88	3.33	0.63	1.89	1.06
FJ3012-01-1012S	7/8-14	12	4.83	3.25	0.63	1.89	1.06
FJ3012-03-1212S	1-1/16-14	12	5.10	3.52	0.63	2.56	1.25

FJ3013/ EJ3302



90° Female O-ring (Short Pilot) with R134a High Side Port

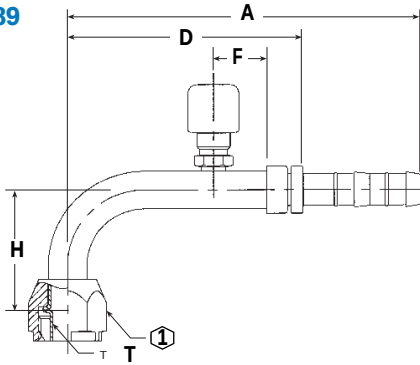
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3013-02-0606S	5/8-18	6	4.35	2.82	0.63	1.38	0.75
FJ3013-03-0808S	3/4-16	8	4.61	3.07	0.69	1.62	0.88
FJ3013-01-0810S	3/4-16	10	4.53	2.98	0.69	1.62	0.88
EJ3302-01-0608S	M18 x15	8	4.36	2.82	0.94	1.38	0.88
EJ3302-02-0808S	M20 x15	8	4.52	2.98	0.69	1.62	0.94

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

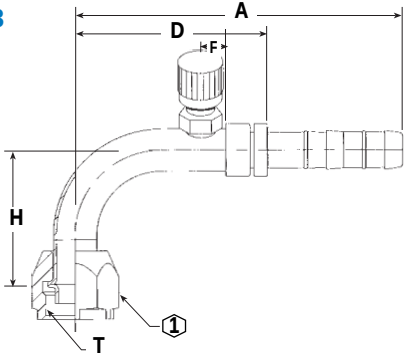
FJ3289



90° Female O-ring (Long Pilot) with Charge Port (7/16-20 thd)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3289-01-0808S	3/4-16	8	4.61	2.59	0.69	162	0.88
FJ3289-02-1010S	7/8-14	10	4.80	2.77	0.63	193	1.06
FJ3289-03-0606S	5/8-18	6	4.35	2.82	0.69	135	0.75
FJ3289-04-0810S	3/4-16	10	4.62	2.59	0.69	162	0.88
FJ3289-05-1012S	7/8-14	12	4.82	2.77	0.63	193	1.06

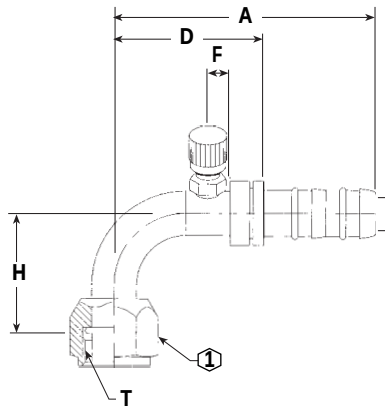
FJ3163



90° Elbow - Female O-ring (Short Pilot) with Charge Port (7/16-20 thd)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3163-01-1010S	7/8-14	10	4.80	3.25	0.79	189	1.06
FJ3163-02-1212S	1-1/16-14	12	5.08	3.50	0.79	2.56	1.25

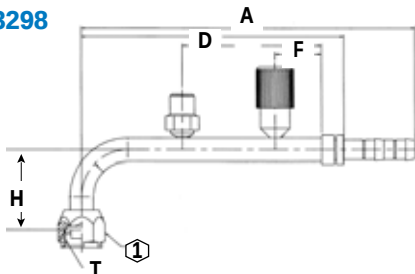
FJ3047



90° Female O-ring (Long Pilot) with Charge Port (7/16-20Thd) - 45° Port Rotation

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3047-1012S	7/8-14	12	4.06	2.48	0.50	169	1.06
FJ3047-1016S	7/8-14	16	4.21	2.53	0.50	169	1.06

EJ3298



90° Female O-ring (Short Pilot) with R134a High Side Port and a Switch Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
EJ3298-01-0808S	3/4-16	8	7.22	5.67	1	1.71	0.88

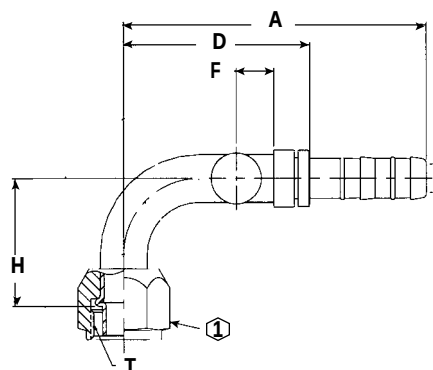
* MTO (made to order)

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

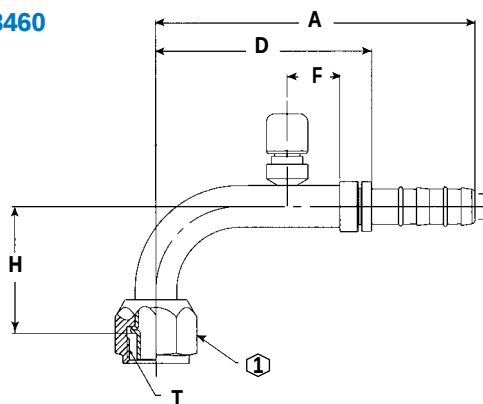
FJ3444



90° Female O-ring (long pilot) with Charge Port (7/16-20 thd) - 90° Port Rotation

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3444-1010S	7/8-14	10	4.03	2.48	.50	1.69	1.06

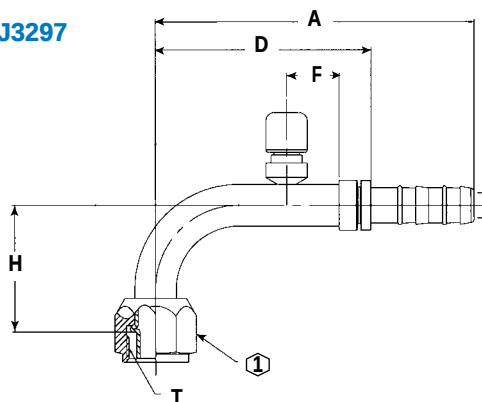
FJ3460



90° Female O-ring (Long Pilot) with Switch Port (M12 X 1.5)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3460-01-1010S	7/8-14	10	4.80	3.25	0.79	1.89	1.06
FJ3460-02-1012S	7/8-14	12	4.83	3.25	0.79	1.89	1.06
FJ3460-03-1212S	1-1/16-14	12	5.08	3.50	.54	2.56	1.25

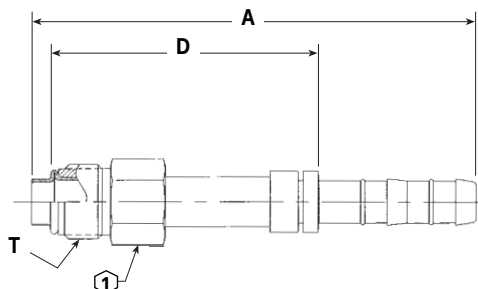
EJ3297



90° Female O-ring (Short Pilot) with Switch Port (M10 X 1.25)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
EJ3297-01-0808S	3/4-16	8	4.16	2.62	0.87	1.68	0.88

FJ3052



Straight Male O-ring (Short Pilot)

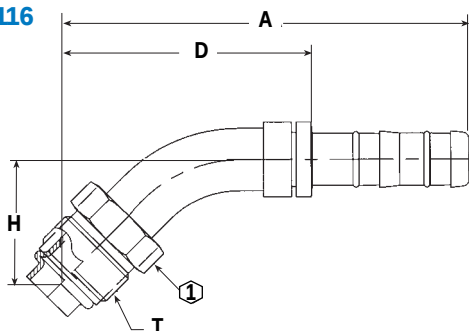
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3052-0606S	5/8-18	6	3.41	1.70	—	—	0.62
FJ3052-0608S	5/8-18	8	3.43	1.70	—	—	0.62
FJ3052-0808S	3/4-18	8	4.37	2.64	—	—	0.75
FJ3052-1010S	7/8-18	10	3.66	1.92	—	—	0.88
FJ3052-1012S	7/8-18	12	3.68	1.92	—	—	0.88
FJ3052-1212S	1-1/16-16	12	3.68	1.92	—	—	1.06
FJ3052-1016S	7/8-18	16	4.33	2.47	—	—	0.88
FJ3052-1216S	1 1/16 -16	16	4.28	2.42	—	—	1.06

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

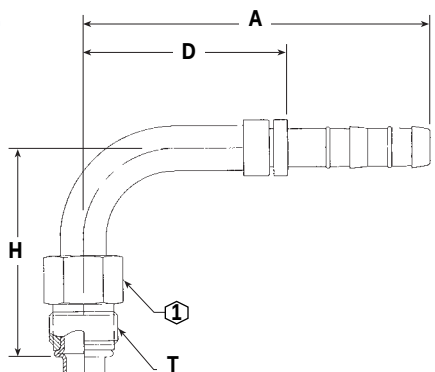
FJ3116



45° Male O-ring (Short Pilot)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3116-01-0606S	5/8-18	6	3.99	2.47	—	0.94	0.62
FJ3116-03-0808S	3/4-18	8	4.59	2.83	—	1.20	0.75
FJ3116-02-1010S	7/8-18	10	4.65	3.10	—	1.46	0.88
FJ3116-04-0608S	5/8-18	8	4.01	2.47	—	0.94	0.62
FJ3116-05-1012S	7/8-18	12	4.68	3.10	—	1.47	0.88
FJ3116-06-1212S	1 1/16-16	12	4.90	3.32	—	1.53	1.06

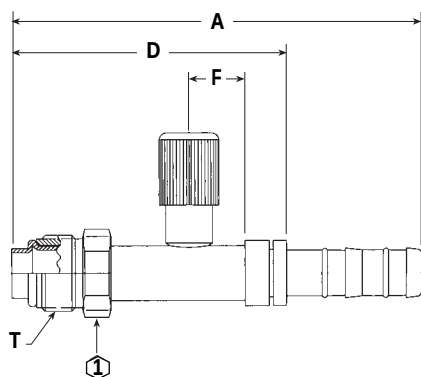
FJ3019



90° Male O-ring (Short Pilot)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3019-03-0606S	5/8-18	6	3.33	1.80	—	1.77	0.62
FJ3019-02-0608S	5/8-18	8	3.34	1.80	—	1.77	0.62
FJ3019-04-0808S	3/4-18	8	3.77	2.23	—	2.31	0.75
FJ3019-06-0810S	3/4-18	10	3.78	2.23	—	2.31	0.75
FJ3019-01-1012S	7/8-18	12	4.24	2.67	—	2.45	0.88
FJ3019-05-1212S	1-1/16-16	12	4.22	2.64	—	2.79	1.06
FJ3019-07-1010S	7/8-18	10	4.22	2.67	—	2.45	0.88
FJ3019-08-1210S	1-1/16-16	10	4.19	2.64	—	2.79	1.06

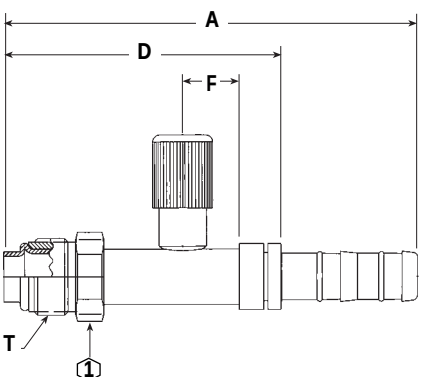
FJ3132



Straight Male O-ring (Short Pilot) with R134a Low Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3132-01-1010S	7/8-18	10	4.43	2.70	0.63	—	0.88
FJ3132-02-1012S	7/8-18	12	4.46	2.70	0.63	—	0.88

FJ3131



Straight Male O-ring (Short Pilot) with R134a High Side Port

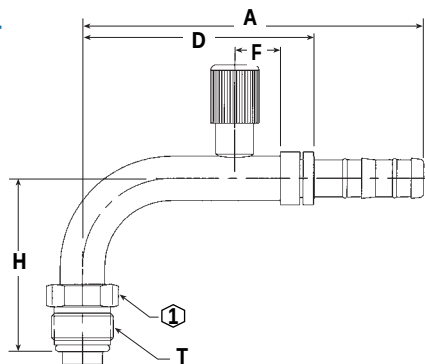
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3131-01-0606S	5/8-18	6	4.18	2.47	0.63	—	0.62
FJ3131-02-0808S	3/4-18	8	4.58	2.85	0.63	—	0.75
FJ3131-03-1010S	7/8-18	10	4.34	2.61	0.63	—	0.88

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

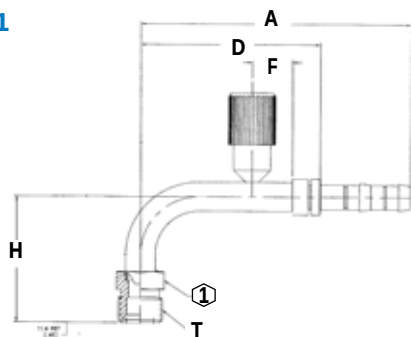
FJ3134



90° Elbow Male O-ring (Short Pilot) with R134a High Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3134-01-0606S	5/8-18	6	4.34	2.82	0.63	1.75	0.62
FJ3134-02-0808S	3/4-18	8	4.61	3.07	0.63	2.31	0.75
FJ3134-03-1010S	7/8-18	10	4.81	3.25	0.63	2.34	0.88

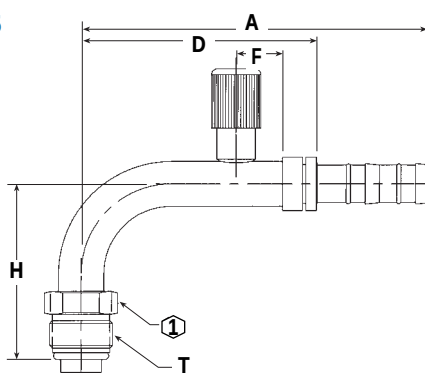
FJ3611



90° Elbow Male MIO with R134a High Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3611-01-0808S	3/4-16	8	4.61	3.07	0.69	2.17	0.813

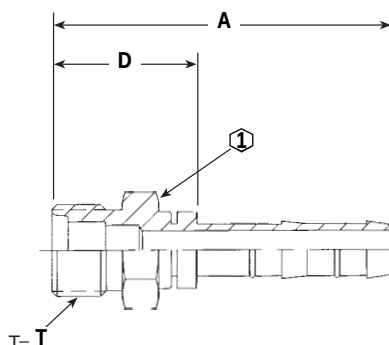
FJ3135



90° Elbow Male O-ring (Short Pilot) with R134a Low Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3135-01-1010S	7/8-18	10	4.81	3.25	0.63	2.34	0.88
FJ3135-02-1012S	7/8-18	12	4.81	3.25	0.63	2.34	0.88

FJ3026



Male MIO (Male Insert O-ring) Straight

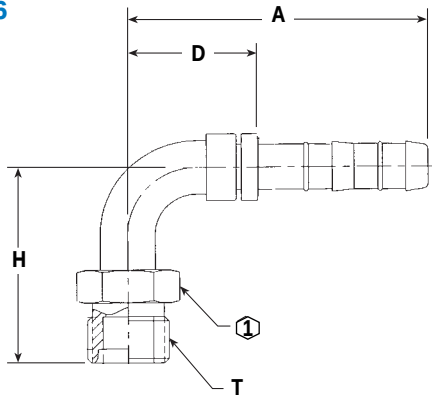
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3026-0606S	5/8-18	6	3.36	1.83	—	—	0.690
FJ3026-0808S	3/4-16	8	2.69	1.15	—	—	0.810
FJ3026-1010S	7/8-14	10	2.90	1.35	—	—	0.940
FJ3026-1012S	7/8-14	12	4.11	2.50	—	—	0.940
FJ3026-1212S	1-1/16-14	12	4.29	2.71	—	—	1.125

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

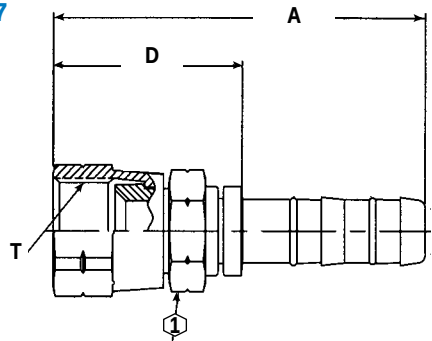
FJ3056



90° Male MIO – (Male Insert O-ring)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3056-01-0606S	5/8-18	6	2.50	0.98	—	1.44	0.69
FJ3056-02-0808S	3/4-16	8	2.74	1.20	—	1.82	0.81
FJ3056-03-1010S	7/8-14	10	3.09	1.54	—	2.13	0.94
FJ3056-04-0810S	3/4-16	10	2.75	1.20	—	1.82	0.81
FJ3056-05-0608S	5/8-18	8	2.52	0.98	—	1.44	0.69

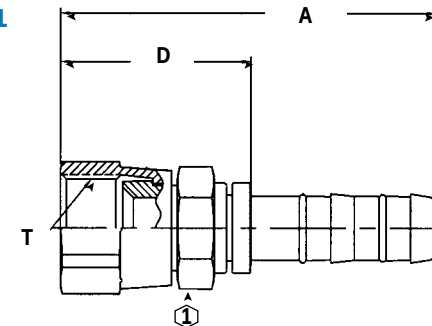
FJ3057



Female SAE 45° Flares

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3057-01-0606S	5/8-18	6	2.88	1.35	—	—	0.56
FJ3057-02-0608S	5/8-18	8	3.14	1.62	—	—	0.75
FJ3057-03-0808S	3/4-16	8	2.96	1.42	—	—	0.69
FJ3057-04-0810S	3/4-16	10	3.56	2.02	—	—	0.88
FJ3057-05-1010S	7/8-14	10	3.63	2.08	—	—	1.00
FJ3057-06-1012S	7/8-14	12	3.66	2.08	—	—	1.00
FJ3057-07-1212S	1-1/16-14	12	3.20	1.62	—	—	1.25

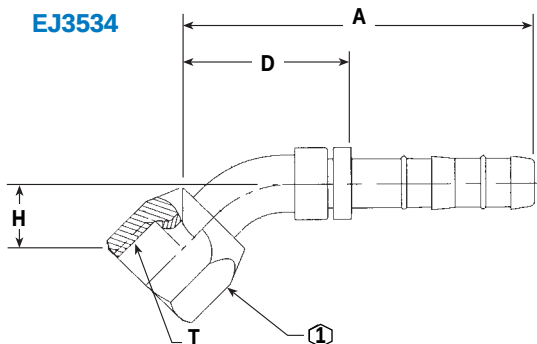
FJ3731



Straight – Female 37° Flares

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3731-1010S	7/8-14	10	4.21	2.66	—	—	1.00
FJ3731-0606S	9/16-18	6	3.66	2.13	—	—	0.68
FJ3731-0808S	3/4-16	8	4.35	2.81	—	—	0.88
FJ3731-1212S	1-1/16-12	12	4.62	3.04	—	—	1.25
FJ3731-1616S	1-5/16-12	16	5.99	4.31	—	—	1.50
FJ3731-0404S	7/16-20	4	2.75	2.08	—	—	0.56

EJ3534



45° Female JIC 37° Flare

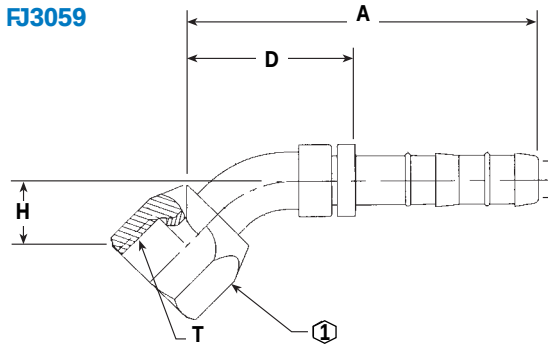
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
EJ3534-02-0606S	9/16-18	6	3.31	1.79	—	0.74	1.00
EJ3534-03-0608S	9/16-18	8	3.76	3.32	—	1.10	0.68
EJ3534-04-0808S	3/4-16	8	4.04	2.49	—	1.10	0.88
EJ3534-05-1010S	7/8-14	10	4.21	2.66	—	1.27	1.25
EJ3534-06-1212S	1-1/16-12	12	4.30	2.73	—	1.33	1.50
EJ3534-07-1616S	1-5/16-12	16	5.46	3.79	—	1.92	1.50
EJ3534-01-0404S	7/16-20	4	2.37	1.70	—	0.63	0.56

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

FJ3059



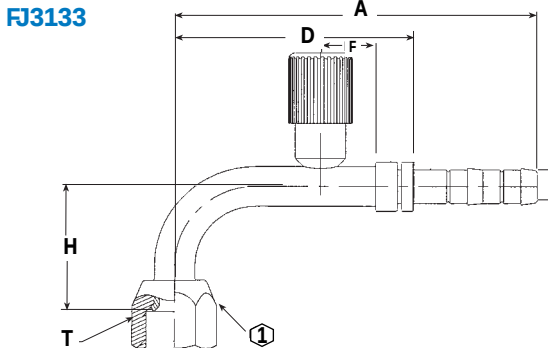
45° Female SAE 45° and Universal Flares

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3059-01-0606S†	5/8-18	6	2.61	108	—	0.39	0.75
FJ3059-02-0608S†	5/8-18	8	2.62	108	—	0.39	0.75
FJ3059-03-0808S*	3/4-16	8	2.97	143	—	0.55	0.88
FJ3059-04-0810S*	3/4-16	10	2.98	143	—	0.55	0.88
FJ3059-05-1010S*	7/8-14	10	3.08	153	—	0.63	100
FJ3059-06-1012S*	7/8-14	12	3.11	153	—	0.63	100

† Double notch in nut for universal type identification

* Universal Flare

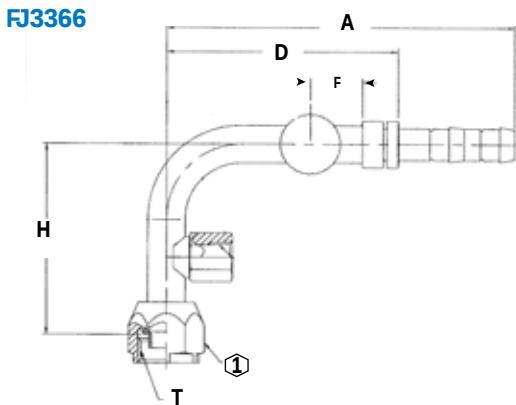
FJ3133



90° Female SAE 45° with High Side Charge Port (R134a)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3133-01-0606S	5/8-18	6	4.35	2.82	0.63	1.28	0.75
FJ3133-02-0808S	3/4-16	8	4.61	3.07	0.63	1.53	0.88
FJ3133-03-1010S	7/8-14	10	4.80	3.25	0.63	1.84	0.88

FJ3366

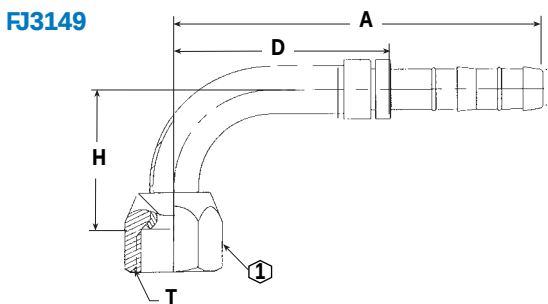


SAE 90° and with R134a C/Port and Switch Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3366-01-0810S*	3/4-16	10	4.62	3.07	0.69	2.53	0.875
FJ3366-02-0808S*	3/4-16	8	4.61	3.07	0.69	2.53	0.875

* MTO (made to order)

FJ3149



90° Female SAE 45° and Universal Flares

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3149-01-0606S†	5/8-18	6	2.51	0.98	—	0.85	0.75
FJ3149-02-0608S†	5/8-18	8	2.52	0.98	—	0.85	0.75
FJ3149-03-0808S*	3/4-16	8	2.74	1.20	—	1.09	0.88
FJ3149-04-1010S*	7/8-14	10	3.09	1.54	—	1.19	100
FJ3149-05-1012S*	7/8-14	12	3.09	1.54	—	1.19	100
FJ3149-06-1212S†	1-1/16-14	12	3.68	2.11	—	1.80	1.25

† Double notch in nut for universal type identification

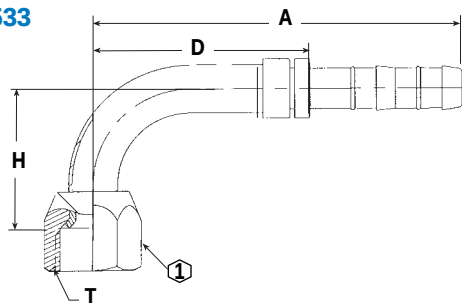
* Universal Flare

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

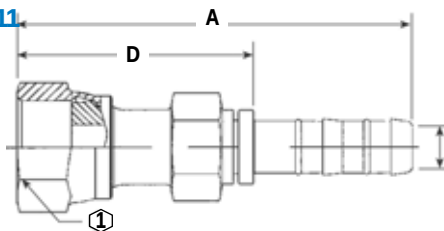
EJ3533



90° Female JIC 37° Flare

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
EJ3533-02-0606S	9/16-18	6	3.27	1.74	—	1.69	0.69
EJ3533-03-0608S	9/16-18	8	3.28	1.74	—	1.69	0.69
EJ3533-04-0808S	3/4-16	8	3.14	1.60	—	1.77	0.88
EJ3533-05-1010S	7/8-14	10	3.78	2.23	—	2.59	1.00
EJ3533-06-1212S	1 1/16-12	12	4.11	2.53	—	3.02	1.25
EJ3533-07-1616S	1 5/16-12	16	5.16	3.48	—	3.86	1.50
EJ3533-01-0404S	7/16-20	4	2.09	1.42	—	1.21	0.56

GA23911

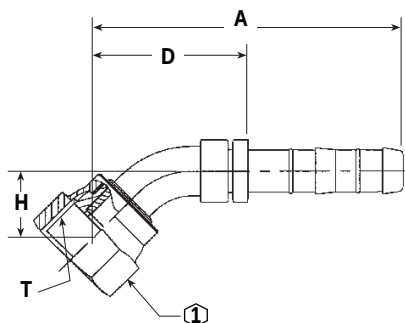


Straight - ORS Female Swivel Metric Hex Nut

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
GA23911-6-6*	1-1/16-16	6	2.95	1.43	—	—	22mm
GA23911-8-8*	1-3/16-16	8	3.17	1.62	—	—	24mm
GA23911-10-12*	1-14	12	3.32	1.74	—	—	30mm
GA23911-10-10*	1-14	10	3.33	1.78	—	—	30mm
GA23911-12-12*	1-3/16-12	12	3.320	1.52	—	—	41mm

* GA Part numbers have a metric hex

FJ3161 GA23912

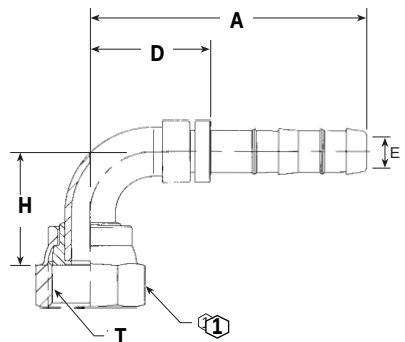


45° ORS Female Swivel

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3161-01-0606S	11/16-16	6	2.65	1.12	—	0.44	0.81
FJ3161-02-0808S	13/16-16	8	3.02	1.47	—	0.59	0.94
FJ3161-03-1010S	1-14	10	3.22	1.67	—	0.70	1.13
FJ3161-04-1008S	1-14	8	3.32	1.78	—	0.70	1.13
GA23912-10-8*	1-14	8	3.50	1.96	—	0.68	30mm
GA23912-12-12*	1-3/16-12	12	4.23	2.65	—	0.83	36mm
F3161-08-0810S	13/16-16	10	3.02	1.47	—	0.59	0.94
GA23912-10-10*	1-14	10	3.77	2.22	—	0.68	30mm
GA23912-8-8*	13-16-16	8	3.43	1.89	—	0.59	30mm

* GA Part numbers have a metric hex

FJ5994/ GA23913



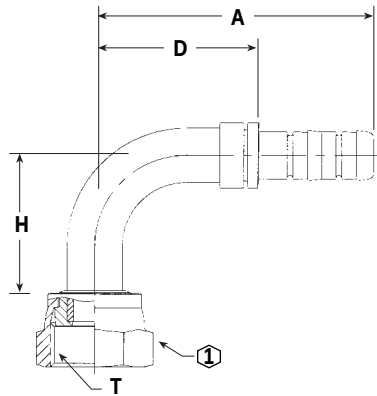
90° ORS Female Swivel

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ5994-01-0606S	1-1/16-16	6	2.50	0.98	—	0.91	0.81
FJ5994-02-0808S	13/16-16	8	2.74	1.20	—	1.15	0.94
FJ5994-04-1010S	1-14	10	3.09	1.53	—	1.27	1.12
FJ5994-03-1212S	1-3/16-12	12	3.36	1.78	—	1.90	1.38
FJ5994-05-0406S	9/16-18	6	2.44	0.92	—	0.82	0.69
FJ5994-05-1012S	1-14	12	3.11	1.53	—	1.78	1.13
FJ5994-07-0806S	13/16-16	6	2.66	1.10	—	1.15	0.94
FJ5994-09-1016S	1-14	16	3.30	1.62	—	1.78	1.125
GA23913-10-12*	1-14	12	3.67	2.10	—	1.54	1.18

* GA Part numbers have a metric hex

E-Z Clip System™ - Hose Ends

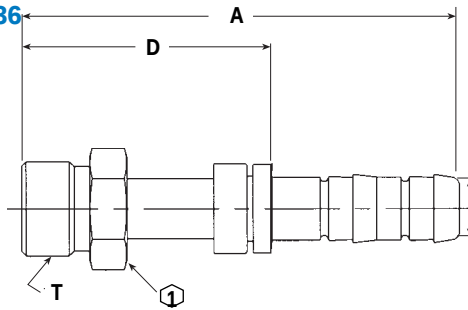
FJ3319



90° ORS Female Swivel (Long Drop)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3319-1212S	1-3/16-12	12	3.82	2.24	—	2.38	1.13

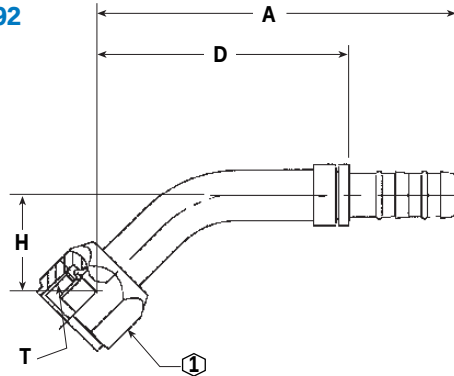
FJ3136



Straight Male O-ring (Rigid) Metric Thread

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3136-0810S	M20 x 15	10	3.62	2.07	0.69	—	0.88

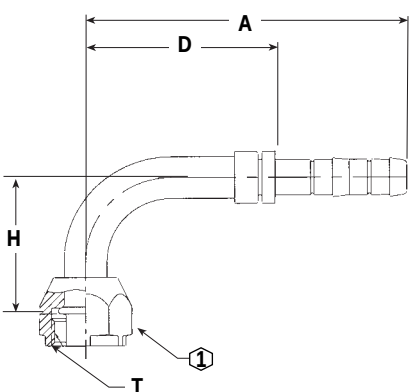
FJ3192



45° Female O-ring (long pilot, metric thread)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3192-02-1212S	M27x2	12	4.74	3.17	—	1.47	1.25

FJ3111 FJ3409



90° Female O-ring (Long Pilot) Metric Thread

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3111-01-0808S	M20 x 15	8	3.77	2.23	—	1.62	0.94
FJ3111-02-0810S	M20 x 15	10	3.78	2.23	—	1.62	0.94
FJ3111-03-0806S*	M20 x 15	6	3.75	2.23	—	1.62	0.94
FJ3409-1212S	M27 x 2	12	4.74	3.16	—	2.56	1.25

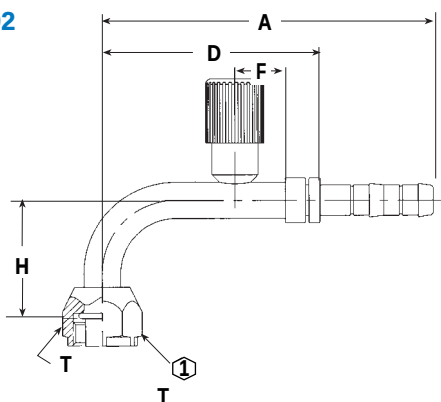
* MTO (made to order)

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

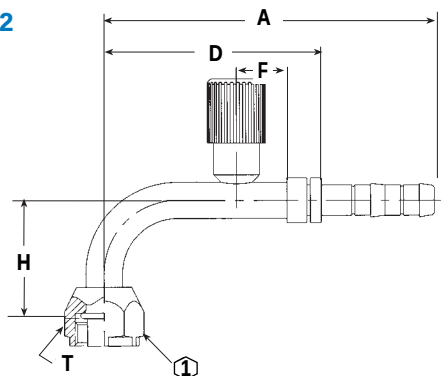
FJ3892



90° Female O-ring (Long Pilot) with R134a Low Side Port (Metric Thread)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3892-01-1010S	M24 x 15	10	4.88	3.33	.63	1.89	1.125

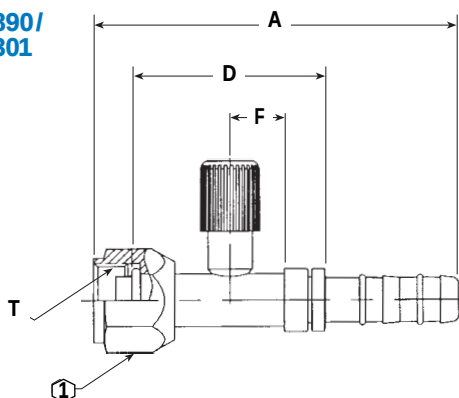
FJ3112



90° Female O-ring (Long Pilot) Metric Thread with High Side Charge Port (R134a)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3112-01-0808S	M20 x 15	8	4.52	2.98	0.69	1.62	0.94
FJ3112-02-0810S	M20 x 15	10	4.53	2.98	0.69	1.62	0.94
FJ3112-03-0806S	M20 x 15	6	4.50	2.98	0.69	1.62	0.94
FJ3112-03-1010S	M24 x 15	10	4.88	3.33	0.63	1.89	1.125

FJ3890/ FJ3301

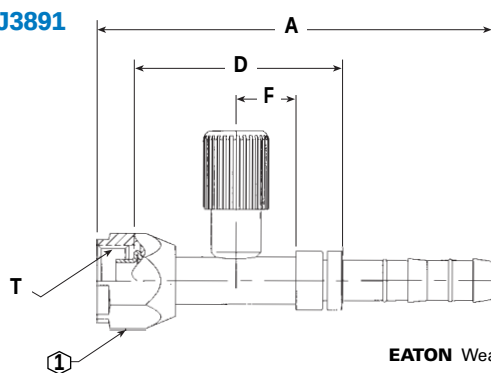


Straight - Female O-ring (Long Pilot) with R134a High Side Port (Metric Thread)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3890-01-0806S	M20 x 15	6	4.06	2.16	0.63	—	0.94
FJ3301-01-0606S*	M18 x 15	6	3.91	2.10	0.63	—	0.94

* MTO (made to order)

FJ3891



Straight - Female O-ring (Long Pilot) with R134a Low Side Port (Metric Thread)

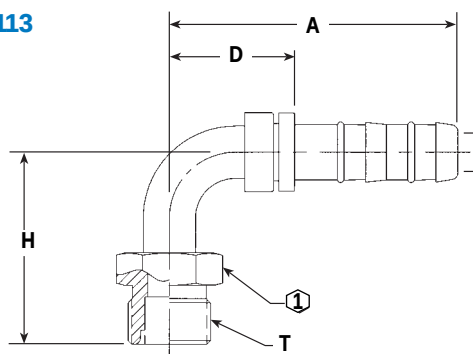
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3891-01-1010S	M24 x 15	10	4.24	2.25	0.62	1.62	1.125

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

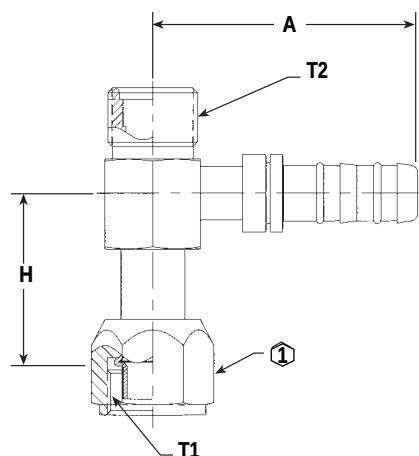
FJ3113



90° Male O-ring (Rigid) Metric Thread

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3113-0810S	M20 x 15	10	2.75	120	—	182	0.88

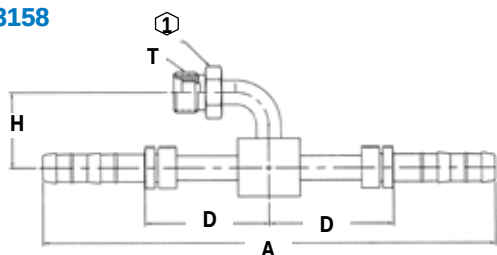
FJ3067 FJ3495



Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3067-1212S*	M27 x 2	12	3.12	—	—	2.02	1.25
FJ3495-0808S	M20 x 15	8	2.71	—	—	1.68	0.94

* MTO (made to order)

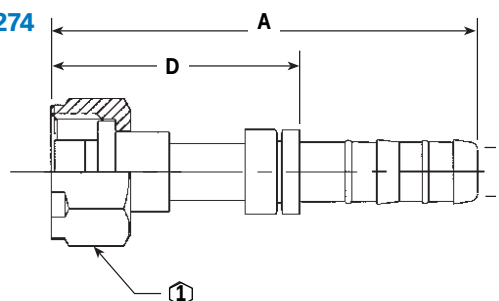
EJ3158



Tee Style Fitting with Male O-ring Connection

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
EJ3158-101212S	7/8-14	12	5.67	1.26	—	1.49	0.94
EJ3158-121616S	1-1/16-14	16	6.79	1.72	—	2.13	1.13
EJ3158-060808S	5/8-18	8	6.86	1.88	—	1.14	0.69
EJ3158-080808S	3/4-16	8	6.86	1.89	—	1.39	0.81

FJ3274



Straight - Female Rotalok

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3274-1010S	1-14	10	3.69	2.14	—	—	1.13
FJ3274-1012S*	1-14	12	3.75	2.14	—	—	1.13

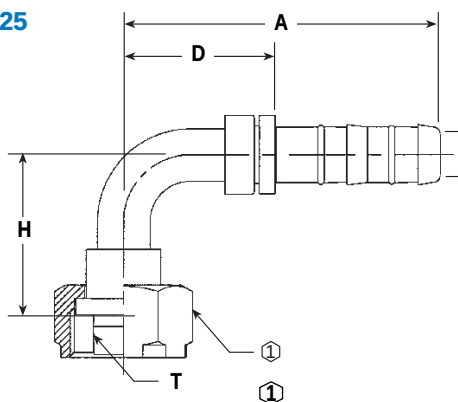
* MTO (made to order)

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

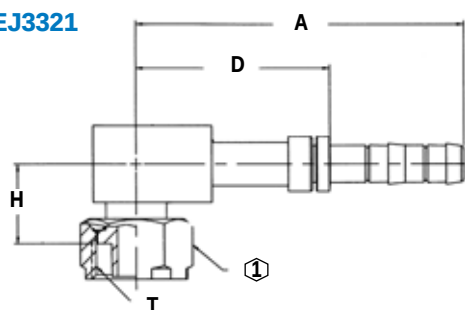
FJ3225



90° Female Rotalok

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3225-1010S	1-14	10	2.98	1.43	—	152	113
FJ3225-1008S	1-14	8	2.98	1.43	—	152	113
FJ3225-1012S	1-14	12	3.11	1.54	—	162	113

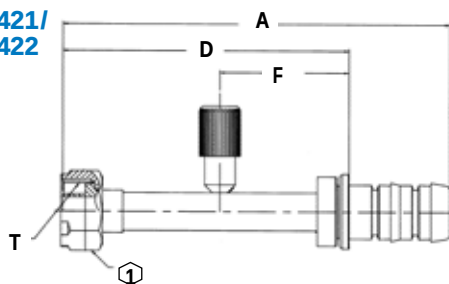
EJ3321



Short Drop 90° Female Rotalok

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
EJ3321-1008S	1-14	8	3.62	2.07	—	0.91	113
EJ3321-1012S	1-14	12	3.87	2.29	—	0.91	113

EJ3421/ EJ3422



Female Rotalok with R134 Port

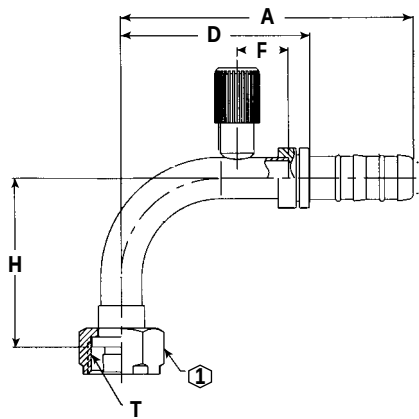
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
EJ3421-1012S	1-14	12	6.44	4.86	2.17	High	113
EJ3422-1016S	1-14	16	6.45	4.77	2.15	Low	113

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

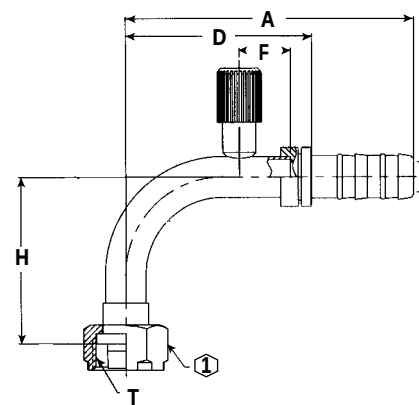
FJ3510



90° Female Rotalok with R134a Low Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3510-1012S	1-14	12	4.48	2.88	.79	2.58	113

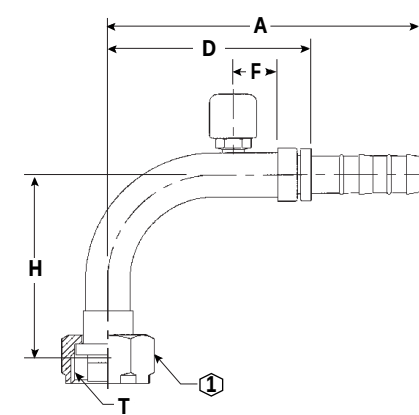
FJ3511



90° Female Rotalok with R134a High Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3511-1010S	1-14	10	4.43	2.88	.79	2.58	113

FJ3226



90° Female Rotalok with Switch Port (7/16-20 Thread)

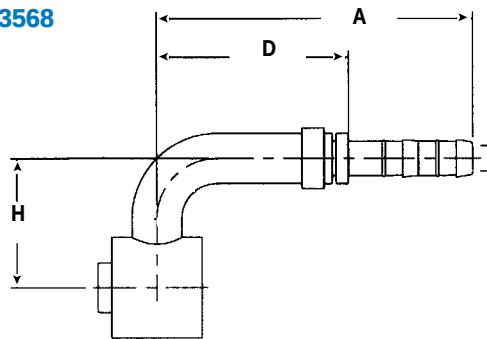
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3226-1010S	1-14	10	4.43	2.88	0.63	2.56	113

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

FJ3568

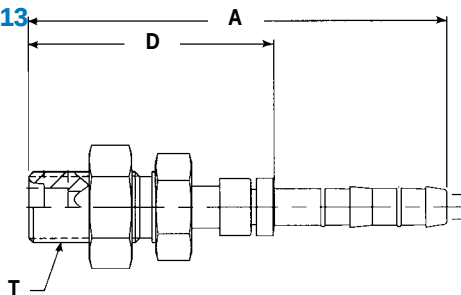


90° GM Block Style

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3568-1008S*	—	8	3.92	2.38	—	1.60	—
FJ3568-1010S*	—	10	3.83	2.28	—	2.31	—
FJ3568-1012S*	—	12	3.86	2.28	—	2.38	—

* MTO (made to order)

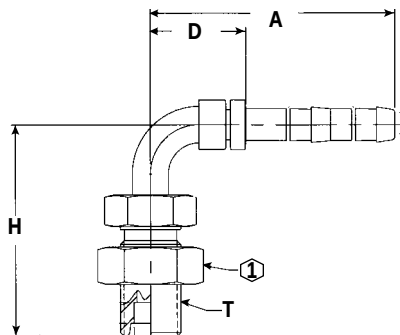
FJ3513



Straight Bulkhead

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3513-0606S	5/8-18	6	3.69	2.16	—	—	0.94
FJ3513-0808S	3/4-16	8	3.93	2.39	—	—	1.0
FJ3513-1010S	7/8-14	10	4.49	2.94	—	—	1.13
FJ3513-1212S	1-1/16-14	12	4.83	3.24	—	—	1.38
FJ3513-1216S	1-1/16-14	16	4.92	3.24	—	—	1.38

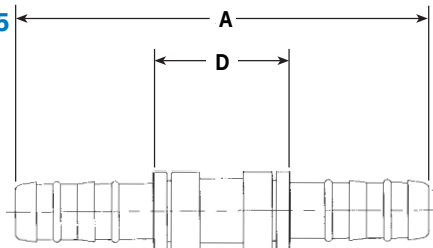
FJ3514



90° Male Bulkhead

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3514-0606S	5/8-18	6	2.50	.98	—	2.15	0.94
FJ3514-0808S	3/4-16	8	2.74	1.20	—	2.61	1.0
FJ3514-1010S	7/8-14	10	3.08	1.53	—	3.26	1.13
FJ3514-1012S	7/8-14	12	3.11	1.53	—	3.26	1.13
FJ3514-1212S	1-1/16-14	12	3.69	2.11	—	3.78	1.38

FJ3045



Straight Splicer

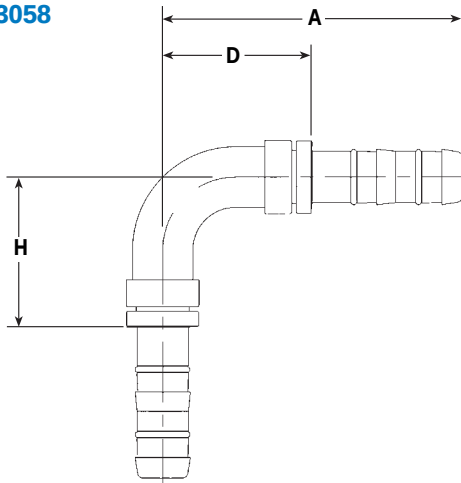
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3045-0606S	—	6	4.63	1.58	—	—	—
FJ3045-0808S	—	8	4.76	1.68	—	—	—
FJ3045-1010S	—	10	5.68	2.58	—	—	—
FJ3045-1212S	—	12	4.72	1.57	—	—	—
FJ3045-1008S	—	8	5.78	2.69	—	—	—
FJ3045-1616S	—	16	5.18	1.82	—	—	—

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

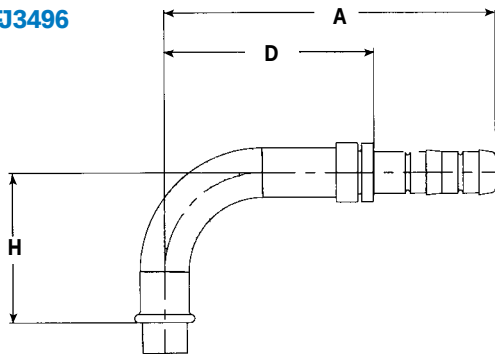
FJ3058



90° Splicer

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3058-01-0606S	—	6	2.71	1.18	—	2.71	—
FJ3058-02-0808S	—	8	2.98	1.43	—	2.98	—
FJ3058-03-1010S	—	10	3.08	1.53	—	3.08	—
FJ3058-04-1212S	—	12	3.68	2.11	—	3.68	—
FJ3058-05-1010S	—	10	6.86	5.61	—	6.86	—
FJ3058-06-1212S	—	12	6.86	5.36	—	6.86	—

FJ3496

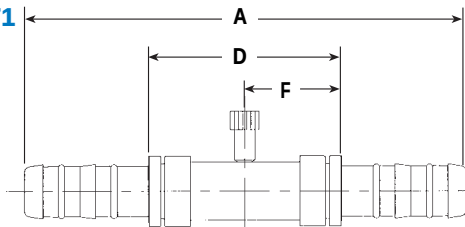


90° Pilot Connection (Long Pilot)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3496-01-1010S	—	10	4.22	2.67	—	1.89	—
FJ3496-02-0808S*	—	8	3.77	2.23	—	1.62	—
FJ3496-03-1012S	—	12	4.25	2.67	—	1.89	—

* MTO (made to order)

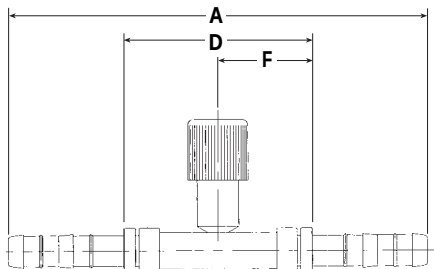
FJ3171



Splicer with Switch Port (7/16-20 Thd)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3171-0606S	—	6	5.41	2.36	1.18	—	—
FJ3171-0808S	—	8	5.61	2.52	1.26	—	—
FJ3171-1010S	—	10	5.54	2.44	1.22	—	—
FJ3171-1212S	—	12	5.60	2.44	1.22	—	—
FJ3171-1616S	—	16	6.79	3.44	1.72	—	—

FJ5995



Splicer with High Side R134a Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ5995-0606S	—	6	5.41	2.36	1.18	—	—
FJ5995-0808S	—	8	5.61	2.52	1.26	—	—
FJ5995-1010S	—	10	5.62	2.52	1.26	—	—
FJ5995-1212S	—	12	5.67	2.52	1.26	—	—

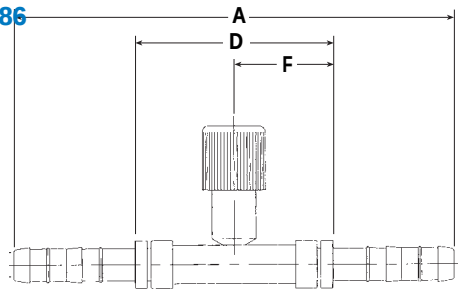
* MTO (made to order)

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

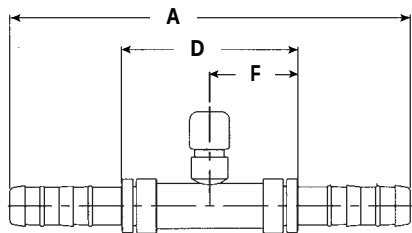
FJ5986



Splicer with R134a Low Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ5986-1010S	—	10	5.54	2.44	1.22	—	—
FJ5986-1212S	—	12	5.60	2.44	1.22	—	—
FJ5986-1616S	—	16	6.79	3.44	1.72	—	—

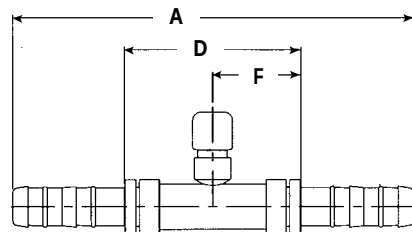
FJ3427



Splicer with High Side Switch Port (M10 X 1.25)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3427-0808S	—	8	5.61	2.52	1.26	—	—
FJ3427-1010S	—	10	5.54	2.44	1.22	—	—

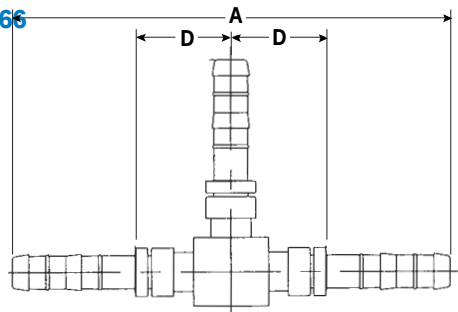
FJ3428



Splicer with Low Side Switch Port (M12 X 1.25)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3428-1212S	—	12	5.59	2.44	1.22	—	—

FJ3066



"T" Splicer - 3 Hose Connector

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3066-0808S	—	8	5.48	2.40	—	—	—
FJ3066-1010S	—	10	5.62	2.52	—	—	—
FJ3066-1212S	—	12	5.67	2.52	—	—	—
FJ3066-101212S	—	10x12x12	5.67	2.52	—	—	—
FJ3066-060808S	—	6x8x8	5.48	2.40	—	—	—
FJ3066-060606S*	—	6x6x6	5.48	2.40	—	—	—

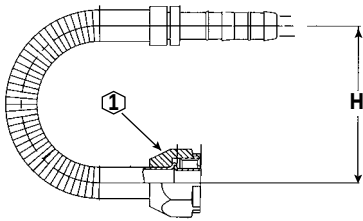
* MTO (made to order)

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

FJ3623

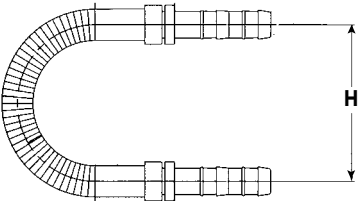


180° Female O-ring Pilot

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3623-0808S*	M20 x 15	8	—	—	—	2.50	.94

* MTO (made to order)

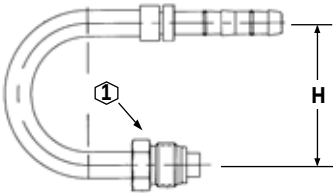
FJ3624



Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3624-0808S*	—	8	—	—	—	2.50	—

* MTO (made to order)

FJ3804



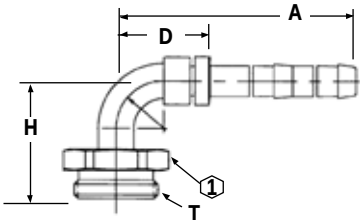
180° Male O-ring

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3804-0606S*	5/8-18	6	—	—	—	2.00	.625
FJ3804-1010S*	7/8-18	10	—	—	—	3.00	.88

* MTO (made to order)

K

FJ3914



90° 5400 Coupling Thread

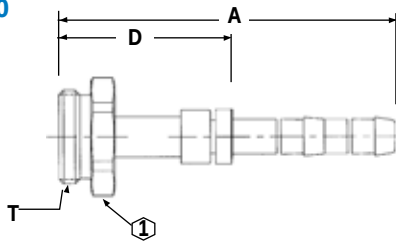
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3914-03-1210S*	1 1/4-18	10	3.08	153	—	1.23	1.375
FJ3914-03-0806S*	7/8-20	6	2.50	0.98	—	1.23	1.00

* MTO (made to order)

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

FJ3970



Straight 5400 Coupling Thread

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3970-0606S	7/8 x 20	6	3.14	1.82	—	—	100

FJ3734

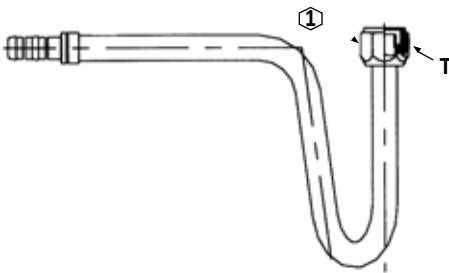


Female O-ring (Long Pilot) Compound Tube

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3734-1212S*	1 1/16 x 14	12	—	—	—	—	125

* MTO (made to order)

FJ3801

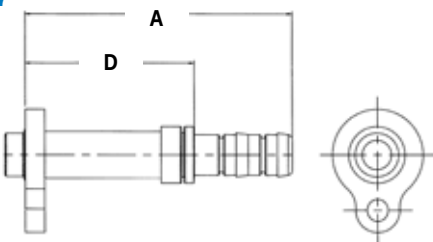


Female O-ring (Long Pilot) Compound Tube

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3801-1212S*	1 1/16 x 14	12	—	—	—	—	125

* MTO (made to order)

FJ3977



Pad Style Connection (Volvo)

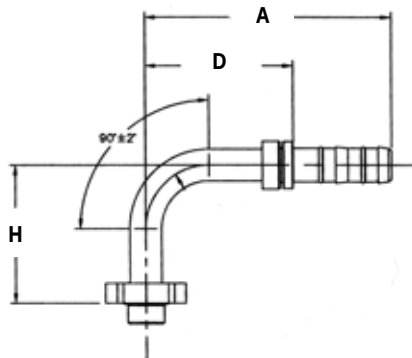
Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3977-0806S	—	6	3.34	1.82	—	—	—
FJ3977-0810S	—	10	3.74	2.19	—	—	—
FJ3977-1012S	—	12	4.32	2.73	—	—	—

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

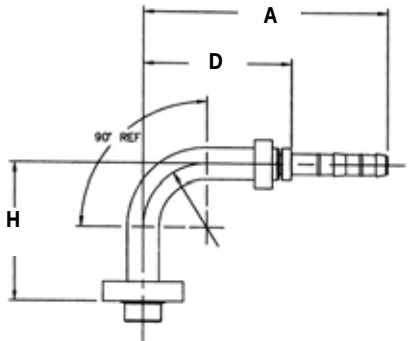
FJ3982



90° Pad Style Connection (Volvo)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3982-0806S	—	6	3.86	2.33	—	2.18	—
FJ3982-0810S	—	10	3.86	2.31	—	2.18	—

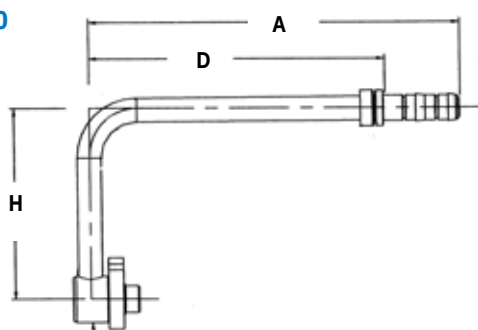
FJ3983



90° Pad Style Connection (Volvo) (Pad Orientation 90°)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3983-0806S	—	6	3.86	2.33	—	2.18	—

FJ3980

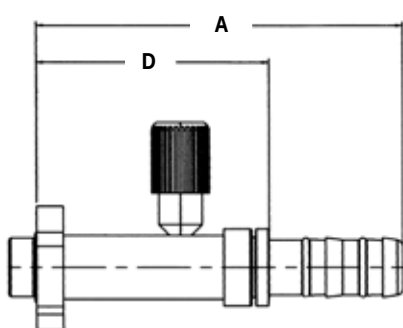


180° Pad Style Connection

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3980-0810S*	—	10	6.04	4.48	—	3.92	—

* MTO (made to order)

FJ3978



Straight Pad Style (Volvo) with R134a Low Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3978-1012S*	—	12	4.32	2.73	—	—	—

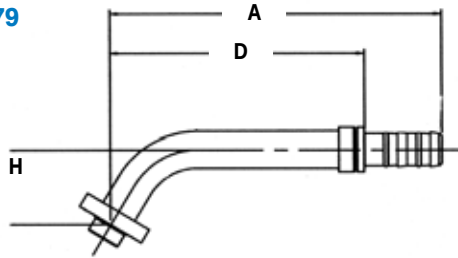
* MTO (made to order)

K

Hose Ends - Field Attachable

E-Z Clip System™ - Hose Ends

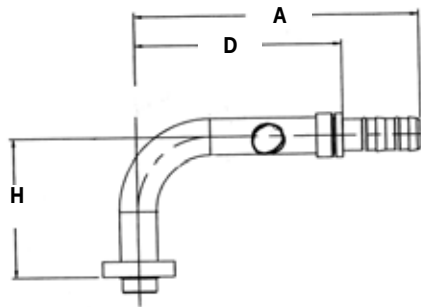
FJ3979



60° Elbow, Pad Style (Volvo) with R134a Low Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3979-1012S	—	12	6.78	5.2	—	153	—

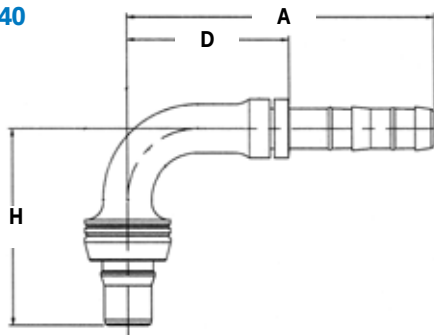
FJ3981



90° Elbow, Pad Style (Volvo) with R134a Low Side Port

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
FJ3981-1012S	—	12	5.9	4.32	—	2.84	—

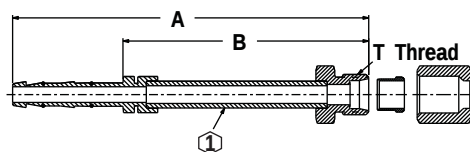
IF20340



90° to STC

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
1F20340-0808-S	—	8	3.03	1.49	—	2.09	—

EJ3809



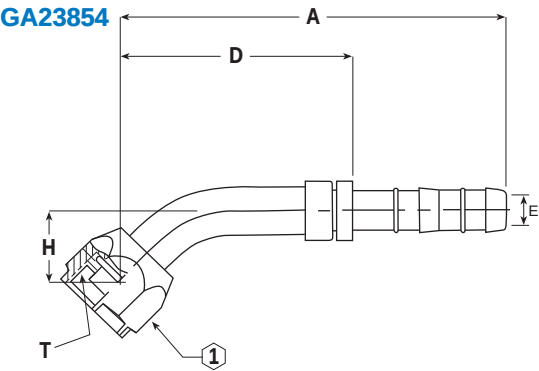
E-Z Clip Compression Fitting

Part Number	TH'D "T"	Hose Size	A Ref	B Ref	F Ref	H Ref	① Ref
EJ3809-01-0606S	9/16-18	6	4.92	3.40	—	—	0.69
EJ3809-02-0806S	2/4-16	6	4.93	2.40	—	—	0.88
EJ3809-03-0606S	9/16-18	6	4.94	3.40	—	—	0.69
EJ3809-04-0808S	3/4-16	8	4.84	3.30	—	—	0.88
EJ3809-05-1008S	7/8-14	8	4.73	3.19	—	—	1.00
EJ3809-06-0810S	3/4-16	10	4.85	3.30	—	—	0.88
EJ3809-07-1010S	7/8-14	10	4.64	3.09	—	—	1.00
EJ3809-08-1012S	7/8-14	12	4.66	3.09	—	—	1.00
EJ3809-09-1212S	1-1/16-12	12	4.98	3.40	—	—	1.25
EJ3809-10-1210S	1-1/16-12	10	5.05	3.50	—	—	1.25

K

Hose Ends - Field Attachable

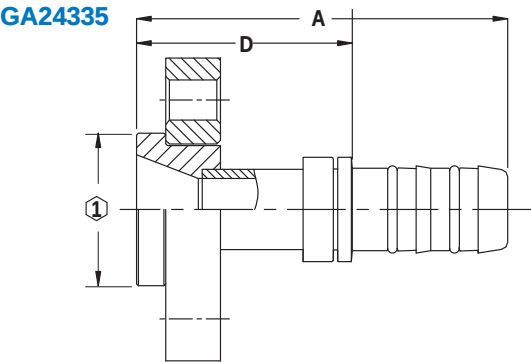
E-Z Clip System™ - Hose Ends



45° Female O-ring (Long Pilot)

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
GA23854-12-16*	1 1/16-14	16	5.125	3.175	—	1.39	32mm

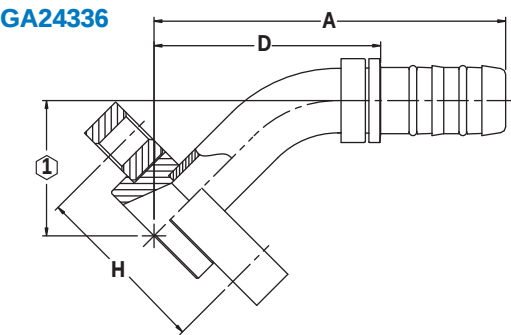
* MTO (made to order)



Straight Bock Compressor Fitting

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
GA24335-22-16*	—	16	4.01	2.33	—	—	1.65

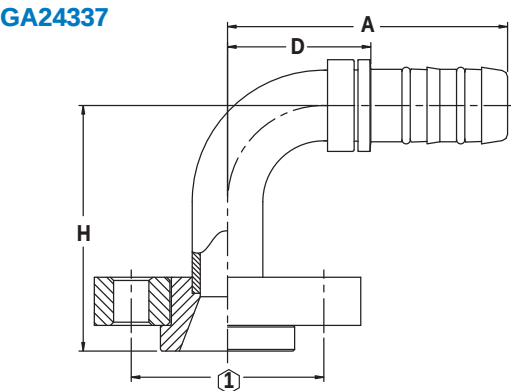
* MTO (made to order)



45° Bock Compressor Fitting

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
GA24336-22-16*	—	16	4.72	3.04	—	1.81	1.65

* MTO (made to order)



90° Bock Compressor Fitting

Part Number	TH'D "T"	Hose Size	A Ref	D Ref	F Ref	H Ref	① Ref
GA24337-22-16*	—	16	3.44	1.76	—	3.01	1.65

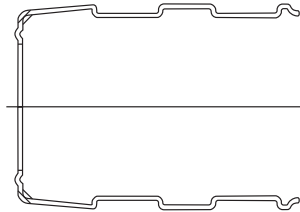
* MTO (made to order)

K

Hose Ends - Field Attachable

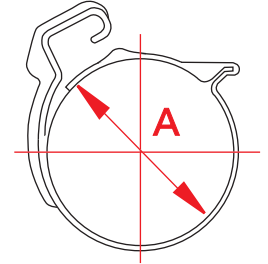
E-Z Clip System™ - Cages, Clips, and Lifesavers

Cages



Part Number	Cage Size	Hose Description
1F40105-06C	-06	Cages for size -06 hose
1F40105-08C	-08	Cages for size -08 hose
1F40105-10C	-10	Cages for size -10 hose
1F40105-12C	-12	Cages for size -12 hose
1F40105-16C	-16	Cages for size -16 hose

Clips

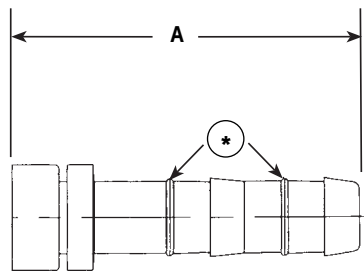


Part Number	A Ref	Description
1F40104-06C	18.0 mm	Clips for size -06 hose
1F40104-08C	20.5 mm	Clips for size -08 hose
1F40104-10C	23.0 mm	Clips for size -10 hose
1F40104-12C	27.5 mm	Clips for size -12 hose
1F40104-16C	33.0 mm	Clips for size -16 hose

Clip and Cage Kits

Kit Part Number	Hose Size	Number of Clips per Kit	Number of Cages per kit
FF14171	6	2	1
FF14172	8	2	1
FF14173	10	2	1
FF14174	12	2	1
FF14401	16	2	1
FF13819	6	4	2
FF13820	8	4	2
FF13821	10	4	2
FF13822	12	4	2
FF14402	16	4	2

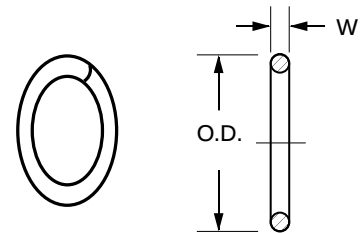
Lifesaver Braze Nipple



Part Number	TH'D "T"	Hose Size	A Ref
FF12262-0606	—	6	2.01
FF12262-0608	—	8	2.02
FF12262-0808	—	8	2.02
FF12262-0810	—	10	2.03
FF12262-1010	—	10	2.03
FF12262-1012	—	12	2.06
FF12262-1212	—	12	2.21
FF12262-1616	—	16	2.21
FF12262-1016	—	16	2.21
FF12262-1216	—	16	2.21

* O-rings packaged separately

Lifesaver Braze Rings



Part Number	Tube O.D.	Wire Dia.	O.D.
4640 x 6	3/8	.046	.375
4640 x 8	1/2	.046	.500
4640 x 10	5/8	.046	.625
4640 x 12	3/4	.062	.750
4640 x 16	1	.062	1.000

K

Hose Ends - Field Attachable

E-Z Clip System™ - Aluminum Lifesaver

A/C Hose Repair System

The Aluminum Lifesaver braze fitting is designed to rework failed OEM aluminum air conditioning tubing and hose assemblies in sizes 10mm to 18mm (metric tubing only, -6 to -12). This repair system allows the installer to reuse unique OEM terminal connections, while replacing the failed OEM hose and nipple with the E-Z Clip attachment system.

NOTE: The E-Z Clip system can only be used with Weatherhead GH134W hose.



E-Z to use

Each kit contains the correct components for replacement of a single hose assembly.

Weatherhead GH134W hose must be ordered or purchased separately.

Determine tube O.D. for Hose I.D. per chart below:

Standard Configurations				
Size * Kit	Tube O.D. mm (in)	Hose I.D. mm (in)	Hose Part Number	Use Lifesaver Part Number
-6	10 (.39)	8 (.32)	GH134W-6	FF13727-1006
-8	12 (.47)	11 (.42)	GH134W-8	FF13727-1208
-10	16 (.63)	13 (.51)	GH134W-10	FF13727-1610
-12	18 (.71)	16 (.64)	GH134W-12	FF13727-1812

*This (-) size label will be referenced throughout the instructions

E-Z Clip Aluminum Lifesaver Kits – Part number ordering Guide:

Order Kit No.	Kit Component	Description	Qty
FF13727 -size	GW1172-size	Braze-on nipple	2
	1F40106-size	Nipple O-ring	5
	GA7000579-size	Silver Braze Ring	3
		Assembly Instructions	1

K

Hose Ends - Field Attachable

E-Z Clip System™ - Tools

Pliers/Connecting Tool



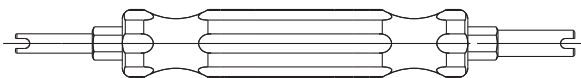
Part Number	Description
FT1357	Connecting Tool
FT1421	Connecting Tool for #16 (replaces FT1417)

Hose Cutter



Part Number	Description
T-135	Hose Cutter
T-135B	Replacement Blade

Core Tool



Part Number	Description
FT1406	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 Thd.port

*For Weatherhead high flow charge ports only.



FF90192-02



FF90192-01



FF90193-02, FF90193-01



FF9872-04

E-Z Clip Components - Ordering & Identifying



The E-Z Clip System is designed for assembly with Weatherhead GH134W Multi-Refrigerant hose. Its engineered connection exceeds SAE J2064 and has been vibration and impulse tested.

The benefits of E-Z Clip are virtually endless:

- No guess work
- No leaking crimps
- No power supply needed
- As easy to use as a pair of pliers
- Easy to use in confined areas

Assembly Materials Checklist

- Pliers (FT1357)
- Guillotine blade (T-135) or equivalent cutting tool
- Refrigerant oil compatible with refrigeration or A/C system
- GH134W Multi-Refrigerant hose
- Nipple assembly*
- Appropriately sized clips and cage

*The two black o-rings on the nipple assembly are of a specific rubber compound and size. They should NOT be removed .



E-Z Clip System Components Are Simple to Identify, Order and Use

Ordering Information

Hose	Nipple	Cage	Clips
GH134-6W	FJ - 06S	1F40105-06C	1F40104-06C
GH134-8W	FJ - 08S	1F40105-08C	1F40104-08C
GH134-10W	FJ - 10S	1F40105-10C	1F40104-10C
GH134-12W	FJ - 12S	1F40105-12C	1F40104-12C
GH134-16W*	FJ - 16S	1F40105-16C	1F40104-16C

Identification Guide

Hose	Cage	Clips	Nipple O-Ring*(HNBR)
GH134-6W	-6 and 150	150	1F40106-06
GH134-8W	-8 and 175	175	1F40106-08
GH134-10W	-10 and 200	200	1F40106-10
GH134-12W	-12 and 245	245	1F40106-12
GH134-16W	-16 and 285	285	1F40106-16

* The o-ring shown must be used on the hose nipple.
NO substitution can be made, without potential of failure.

For Example...



Hose



Cage



Cage Groove



Clips

* See assembly instructions in document # W-HOAC-MS002-E

K

Hose Ends - Field Attachable

E-Z Clip System™ - Assembly Instructions

Step 1. Cut the Hose

Cut the hose to proper length with an appropriate cutting tool. The Weatherhead hand-held hose cutter (T-135) has been specifically designed for cutting all non-wire reinforced hose, such as GH134W 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

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 nipple 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.



K

Hose Ends - Field Attachable

E-Z Clip System™ - Assembly Instructions (cont.)

Step 6: Slide the Clips

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

Step 7: Close the Clips

Use the 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.

The 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. If the pliers are not kept square during closing of the clip, the clasp may have an offset. Use the pliers to correct the clasp alignment.

Notice: E-Z Clip components should not be reused.

CAUTION

Failure to follow these assembly instructions and/or the use of Weatherhead hose with Hose Ends 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.



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



Correct



Incorrect



Incorrect

Correct