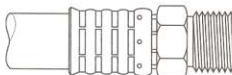


†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Hose End 'E' Series

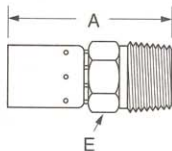


Refer to pages 31-66 or the Weatherhead Hose End and Tool Selector Chart for Qualified Sizes.

WARNING: For PTFE hose applications, 'E' Series fittings must be used with H243 and H277 .030" thin wall hose only.

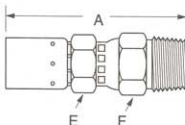
Refer to important safety information on page 3.

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
3/16	1/8	03E-102	1/8-27	1.58	.75	.09	7/16
3/16	1/4	03E-104	1/4-18	1.83	1.00	.09	9/16
1/4	1/8	04E-102	1/8-27	1.60	.75	.16	7/16
1/4	1/4	04E-104	1/4-18	1.79	1.00	.16	9/16
1/4	3/8	04E-106	3/8-18	1.82	1.00	.16	11/16
5/16	1/4	05E-104	1/4-18	1.86	.94	.22	9/16
5/16	3/8	05E-106	3/8-18	1.89	1.00	.22	11/16
3/8	1/4	06E-104	1/4-18	1.90	1.00	.27	9/16
3/8	3/8	06E-106	3/8-18	1.93	1.00	.27	11/16
3/8	1/2	06E-108	1/2-14	2.17	1.25	.27	7/8
1/2	3/8	08E-106	3/8-18	2.02	1.00	.38	3/4
1/2	1/2	08E-108	1/2-14	2.27	1.25	.38	7/8
3/4	3/4	12E-112	3/4-14	2.51	1.31	.61	1-1/16
1	1	16E-116	1-11-1/2	2.95	1.63	.84	1-3/8

Male Pipe Swivel



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04E-J04	1/4-18	2.68	1.81	.16	5/8	13/16
5/16	1/4	05E-J04	1/4-18	2.75	1.81	.22	5/8	13/16
3/8	3/8	06E-J06	3/8-18	2.79	1.81	.27	11/16	7/8
1/2	1/2	08E-J08	1/2-14	3.03	2.00	.39	3/4	7/8
3/4	3/4	12E-J12	3/4-14	3.73	2.50	.61	1-1/4	1-1/4

Note: Swivel for installation purposes only. (Not for temperatures above 212°F)

Typical Application: General purpose low- and medium-pressure hydraulics. Use H277 or H435 where shock hazards exist.

Compatible Hose: H009; H209; H243; H265; H275; H277; H285; H435; H436

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See page 14 for working pressure ratings for hose end configurations.

Material: Low Carbon Steel

Plating: Zinc; yellow dichromate finish

Advantages: Wide selection of hose and end configurations allowing for a diverse number of applications where hose compatibility is a problem.

Assemble With: T-400-1, T-410-1, T-420-1, T-440-1, T-460, T-462, T-465-1, T480.

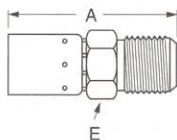
Ordering Information: Order individually by catalog number.

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

Label Set: FS-1200

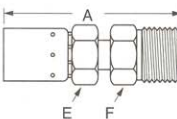
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

JIC 37° Male Rigid



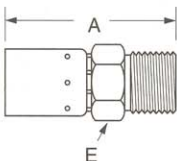
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04E-504	7/16-20	1.78	.94	.16	1/2
1/4	5/16	04E-505	1/2-20	1.78	.94	.19	9/16
1/4	3/8	04E-506	9/16-18	1.82	1.00	.22	5/8
5/16	5/16	05E-505	1/2-20	1.86	.94	.22	9/16
3/8	3/8	06E-506	9/16-18	1.92	1.00	.27	5/8
3/8	1/2	06E-508	3/4-16	2.08	1.19	.27	13/16
1/2	1/2	08E-508	3/4-16	2.18	1.19	.27	13/16
1/2	5/8	08E-510	7/8-14	2.31	1.25	.42	15/16
3/4	3/4	12E-512	1-1/16-12	2.63	1.44	.61	1-1/8
1	1	16E-516	1-5/16-12	2.83	1.50	.84	1-3/8

Inverted Male Swivel Straight



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	3/16	04E-B03	3/8-24	3.06	2.19	.12	7/16	3/8
1/4	1/4	04E-B04	7/16-24	2.44	1.63	.15	7/16	7/16
1/4	5/16	04E-B05	1/2-20	3.71	2.88	.16	7/16	1/2
5/16	5/16	05E-B05	1/2-20	2.57	1.61	.21	9/16	1/2
3/8	5/16	06E-B05	1/2-20	2.56	1.63	.21	9/16	1/2
3/8	3/8	06E-B06	5/8-18	2.81	1.81	.24	5/8	5/8
1/2	1/2	08E-B08	3/4-18	3.14	2.06	.33	3/4	3/4

Air Brake Connection - Tube (For Use With H243 PTFE Hose Only)

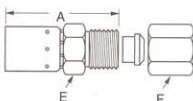


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HOSE TO COPPERTUBING		
								TUBE SIZE	CATALOG NUMBER SLEEVE	CATALOG NUMBER NUT
1/2	1/2	08E-Y58	11/16-20	2.12	1.06	.38	3/4	3/8	1360x6	1361x6
1/2	5/8	08E-Y60	13/16-18	2.18	1.13	.38	7/8	1/2	1360x8	1361x8
3/4	5/8	12E-Y60	13/16-18	2.31	1.13	.53	1	5/8	1360x10	1361x10
3/4	3/4	12E-Y62	1-18	2.38	1.19	.61	1	3/4	1360x12	1361x12

†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.

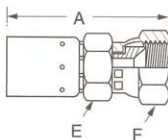
Flareless Tube Rigid
(With Eremto[®] Nut and Sleeve)



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/16	3/8	05E-756	9/16-18	1.88	1.00	.22	5/8	11/16
3/8	5/16	06E-755	1/2-20	1.78	.88	.23	9/16	5/8
3/8	3/8	06E-756	9/16-18	1.82	.88	.27	5/8	11/16
1/2	1/2	08E-758	3/4-16	2.08	1.06	.38	13/16	7/8

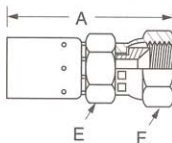
(For replacement Nuts and Sleeves, see page 299).

JIC 37° Female Swivel
(Exceptions Noted, Refer to Footnotes)



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/16	1/4	03E-604 ^a	7/16-20	1.89	1.00	.09	7/16	9/16
1/4	1/4	04E-604 ^a	7/16-20	1.92	1.13	.16	7/16	9/16
1/4	5/16	04E-605 ^a	1/2-20	2.00	1.19	.16	1/2	5/8
1/4	3/8	04E-606	9/16-18	2.06	1.25	.16	9/16	11/16
5/16	5/16	05E-605 ^a	1/2-20	2.07	1.19	.22	1/2	5/8
5/16	3/8	05E-606	9/16-18	2.12	1.19	.22	9/16	11/16
3/8	3/8	06E-606	9/16-18	2.19	1.25	.27	9/16	11/16
3/8	1/2	06E-608 ^a	3/4-16	2.30	1.38	.27	3/4	7/8
1/2	1/2	08E-608 ^a	3/4-16	2.39	1.38	.38	3/4	7/8
1/2	5/8	08E-610 ^a	7/8-14	2.51	1.50	.38	7/8	1
3/4	3/4	12E-612	1-1/16-12	2.76	1.56	.61	1	1-1/4
1	1	16E-616	1-5/16-12	3.05	1.75	.84	1-1/4	1-1/2

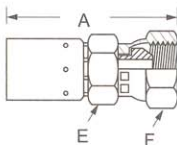
SAE 45° Female Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/16	3/8	05E-406	5/8-18	2.03	1.13	.22	9/16	3/4
3/8	3/8	06E-406	5/8-18	2.06	1.13	.27	9/16	3/4
3/4	3/4	12E-412	1-1/16-14	2.76	1.56	.61	1	1-1/4

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

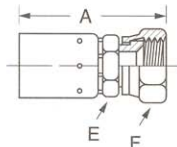
British Standard (BSPP)
 60° Cone Female Pipe Swivel



HOSE I.D.	BSPP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/16	1/4	03E-354	G-1/4-19*	2.01	1.19	.16	9/16	11/16
1/4	1/4	04E-354	G-1/4-19*	2.07	1.25	.16	9/16	3/4
3/8	3/8	06E-356	G-3/8-19*	2.09	1.13	.27	3/4	7/8
3/8	1/2	06E-358	G-1/2-14*	2.47	1.50	.27	13/16	1
1/2	1/2	08E-358	G-1/2-14*	2.56	1.50	.39	13/16	1
1/2	5/8	08E-360	G-5/8-14*	2.70	1.63	.39	7/8	1-3/16
3/4	3/4	12E-362	G-3/4-14*	2.94	1.69	.61	1	1-1/4
1	1	16E-366	G-1-11*	3.38	2.00	.84	1-1/4	1-1/2

*G As Part of Thread Size is ISO Designation for Parallel Thread.

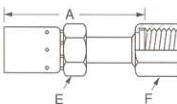
Female Swivel JIS 30°
 Flare Parallel Pipe Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04E-04L	G-1/4-19*	2.03	1.19	.16	9/16	3/4
3/8	3/8	06E-06L	G-3/8-19*	2.22	1.25	.27	11/16	7/8
1/2	1/2	08E-08L	G-1/2-14*	2.30	1.25	.39	13/16	1-1/16
3/4	3/4	12E-12L	G-3/4-14*	2.75	1.50	.81	1	1-5/16
1	1	16E-16L	G-1-11*	3.15	1.81	.84	1-1/4	1-1/2

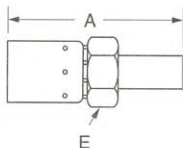
*G As Part of Thread Size is ISO Designation for Parallel Thread.

Female FOR-SEAL®
 Swivel Straight



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04E-S64	9/16-18	2.14	1.31	.15	5/8	11/16
1/4	3/8	04E-S66	11/16-16	2.20	1.38	.16	5/8	13/16
5/16	3/8	05E-S66	11/16-16	2.28	1.38	.22	9/16	13/16
3/8	3/8	06E-S66	11/16-16	2.37	1.44	.24	9/16	13/16
3/8	1/2	06E-S68	13/16-16	2.65	1.69	.24	5/8	15/16
1/2	1/2	08E-S68	13/16-16	2.74	1.69	.33	3/4	15/16
1/2	5/8	08E-S70	1-14	2.83	1.81	.39	3/4	1-1/8
3/4	3/4	12E-S72	1-3/16-12	3.10	1.88	.59	1	1-3/8
1	1	16E-S76	1-7/16-12	3.76	2.44	.78	1-1/4	1-5/8

Straight Tube – Brass
(For Use With H243 PTFE
Hose Only)



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/2	1/2	08E-T58	3.32	2.31	.39	3/4
1/2	5/8	08E-T60	3.45	2.44	.47	3/4
3/4	5/8	12E-T60	3.66	2.44	.47	1
3/4	3/4	12E-T62	4.00	2.81	.61	1

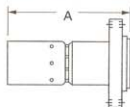
Insert - Brass
Collar - Steel

†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.

**Compatible Air Brake
Nuts & Sleeves**
(order Separately)

TUBE SIZE	CATALOG NUMBER SLEEVE	CATALOG NUMBER NUT
1/2	1360x8	1361x8
5/8	1360x10	1361x10
3/4	1360x12	1361x12

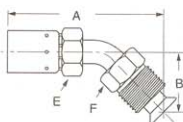
**Compressor Discharge
Flange End – GM Bus Only**
(For Use With H243 PTFE Hose
Only)



HOSE I.D.	CATALOG NUMBER	A	HOSE CUT-OFF FACTOR†	HOLE DIA.
3/4	12E-X92	2.64	1.38	.61

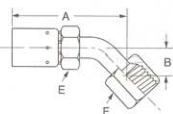
Note: Part will not crimp in T420 press.

**Inverted Male Swivel
45° Tube Elbow**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	3/16	04E-B43	3/8-24	2.82	.69	2.00	.12	7/16	3/8
1/4	1/4	04E-B44	7/16-24	2.94	.93	2.13	.15	7/16	7/16
1/4	5/16	04E-B45	1/2-20	3.32	1.14	2.50	.21	7/16	1/2
3/8	5/16	06E-B45	1/2-20	3.37	1.14	2.44	.21	9/16	1/2
3/8	3/8	06E-B46	5/8-18	3.63	1.34	2.69	.24	5/8	5/8
1/2	1/2	08E-B48	3/4-18	4.32	1.58	3.25	.33	3/4	3/4
1/2	5/8	08E-B50	7/8-18	4.45	1.75	3.44	.39	3/4	7/8

**JIC 37° Female
Swivel 45° Tube Elbow**
(Exceptions Noted, Refer to
Footnotes)

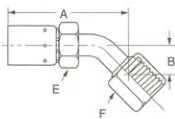


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04E-684 ^a	7/16-20	2.37	.33	1.56	.15	7/16	9/16
1/4	5/16	04E-685 ^a	1/2-20	2.50	.36	1.63	.16	7/16	5/8
5/16	3/8	05E-686	9/16-18	2.65	.39	1.69	.22	9/16	11/16
3/8	3/8	06E-686	9/16-18	2.74	.39	1.75	.24	5/8	11/16
3/8	1/2	06E-688 ^a	3/4-16	2.99	.56	2.00	.27	5/8	7/8
1/2	1/2	08E-688 ^a	3/4-16	2.88	.56	1.78	.33	3/4	7/8
1/2	5/8	08E-690 ^a	7/8-14	3.28	.63	2.25	.39	3/4	1
3/4	3/4	12E-692	1-1/16-12	3.72	.78	2.38	.58	1	1-1/4
1	1	16E-696	1-5/16-12	4.67	1.10	3.31	.83	1-1/4	1-1/2

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

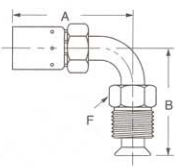
^a Swivel nuts are universal – both SAE 37° and 45° connections.

Female FOR-SEAL[®]
Swivel 45° Tube Elbow



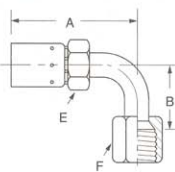
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04E-L64	9/16-18	2.46	.41	1.63	.15	7/16	11/16
1/4	3/8	04E-L66	11/16-16	2.69	.43	1.75	.15	5/8	13/16
5/16	3/8	05E-L66	11/16-16	2.70	.43	1.75	.22	9/16	13/16
3/8	3/8	06E-L66	11/16-16	2.79	.43	1.81	.24	5/8	13/16
1/2	1/2	08E-L68	13/16-16	3.14	.60	2.13	.33	3/4	15/16
3/4	3/4	12E-L72	1-3/16-12	3.83	.83	2.63	.59	1	1-3/8
1	1	16E-L76	1-7/16-12	4.31	.94	3.00	.76	1-1/4	1-5/8

Inverted Male Swivel
90° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	3/16	04E-B63	3/8-24	2.23	1.06	1.38	.12	7/16	3/8
1/4	1/4	04E-B64	7/16-24	2.25	1.36	1.31	.15	7/16	7/16
3/8	5/16	06E-B65	1/2-20	2.49	1.61	1.56	.21	9/16	1/2
3/8	3/8	06E-B66	5/8-18	2.92	1.97	1.94	.24	5/8	5/8
1/2	1/2	08E-B68	3/4-18	3.03	2.32	2.00	.33	3/4	3/4

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

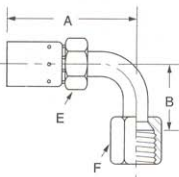


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04E-664 ^a	7/16-20	2.27	.68	1.44	.15	7/16	9/16
1/4	5/16	04E-665 ^a	1/2-20	2.47	.77	1.63	.16	7/16	5/8
5/16	5/16	05E-665 ^a	1/2-20	2.58	.77	1.63	.21	9/16	5/8
5/16	3/8	05E-666	9/16-18	2.57	.85	1.62	.22	9/16	11/16
3/8	3/8	06E-666	9/16-18	2.63	.85	1.68	.24	5/8	11/16
3/8	1/2	06E-668 ^a	3/4-16	2.76	1.09	1.81	.27	5/8	7/8
1/2	1/2	08E-668 ^a	3/4-16	2.82	1.09	1.75	.33	3/4	7/8
1/2	5/8	08E-670 ^a	7/8-14	3.34	1.23	2.31	.39	3/4	1
3/4	3/4	12E-672	1-1/16-12	3.70	1.82	2.50	.59	1	1-1/4
1	1	16E-676	1-5/16-12	4.39	2.14	3.00	.83	1-1/4	1-1/2

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

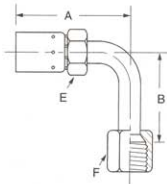
^a Swivel nuts are universal – both SAE 37° and 45° connections.

SAE 45° Female Swivel 90° Tube Elbow



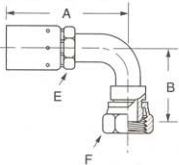
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/8	3/8	06E-466	5/8-18	2.72	.85	1.75	.24	5/8	3/4

JIC 37° Female Swivel Long Drop 90° Tube Elbow (Exceptions Noted)



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04E-644 ^a	7/16-20	2.27	1.80	1.42	.15	7/16	9/16
1/4	5/16	04E-645 ^a	1/2-20	2.51	1.80	1.63	.16	7/16	5/8
5/16	3/8	05E-646	9/16-18	2.63	2.18	1.69	.22	9/16	11/16
3/8	3/8	06E-646	9/16-18	2.66	2.18	1.69	.24	5/8	11/16
3/8	1/2	06E-648 ^a	3/4-16	2.83	2.43	1.88	.27	5/8	7/8
1/2	1/2	08E-648 ^a	3/4-16	2.82	2.43	1.75	.33	3/4	7/8
1/2	5/8	08E-650 ^a	7/8-14	2.96	2.57	1.94	.39	3/4	1
3/4	3/4	12E-652	1-1/16-12	3.74	3.73	2.50	.58	1	1-1/4
1	1	16E-656	1-5/16-12	4.36	4.33	3.00	.83	1-1/4	1-1/2

British Standard (BSPP) 60° Cone Female Pipe Swivel 90° Elbow

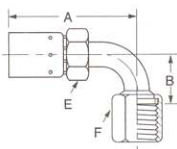


HOSE I.D.	BSPP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04E-74P	G-1/4-19*	2.89	1.50	2.06	.16	7/16	3/4
3/8	3/8	06E-76P	G-3/8-19*	2.96	1.66	2.00	.27	5/8	7/8
1/2	1/2	08E-78P	G-1/2-14*	2.95	1.73	1.88	.37	3/4	1
3/4	3/4	12E-82P	G-3/4-14*	3.83	2.43	2.61	.61	1	1-1/4

*G As Part of Thread Size is ISO Designation for Parallel Thread.

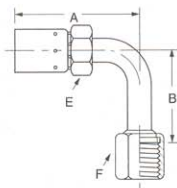
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

**Female FOR-SEAL®
 Swivel Short Drop 90°
 Elbow**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04E-A24	9/16-18	2.27	.81	1.44	.21	7/16	11/16
1/4	3/8	04E-A26	11/16-16	2.54	.90	1.69	.16	5/8	13/16
5/16	3/8	05E-A26	11/16-16	2.62	.90	1.69	.22	9/16	13/16
3/8	3/8	06E-A26	11/16-16	2.71	.90	1.75	.24	5/8	13/16
3/8	1/2	06E-A28	13/16-16	2.81	1.15	1.88	.27	5/8	15/16
1/2	1/2	08E-A28	13/16-16	2.90	1.15	1.88	.33	3/4	15/16
3/4	3/4	12E-A32	1-3/16-12	3.70	1.88	2.50	.59	1	1-3/8
1	1	16E-A36	1-7/16-12	4.01	2.21	2.69	.76	1-1/4	1-5/8

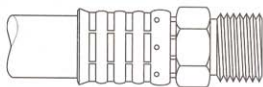
**Female FOR-SEAL®
 Swivel Long Drop 90°
 Tube Elbow**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04E-A64	9/16-18	2.41	1.80	1.56	.21	7/16	11/16
5/16	3/8	05E-A66	11/16-16	2.73	2.12	1.81	.22	9/16	13/16
3/8	3/8	06E-A66	11/16-16	2.82	2.12	1.88	.24	5/8	13/16
3/8	1/2	06E-A68	13/16-16	2.80	2.50	1.88	.27	5/8	15/16
1/2	1/2	08E-A68	13/16-16	2.89	2.50	1.88	.33	3/4	15/16

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

Hose End 069 'E' Series



Typical Application: General purpose low- and medium-pressure hydraulics. Generally used for truck and off-road vehicle applications.

Compatible Hose: H059; H069; H166; H169; H229; H239; H366; H569

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See page 14 for working pressure ratings for hose end configurations.

Material: Low Carbon Steel

Plating: Zinc; yellow dichromate finish; Collar: zinc, green dichromate

Advantages: Wide selection of hose and end configurations allowing for a diverse number of applications. Limited competition and economical cost.

Assemble With: T-400-1, T-410-1, T-420-1, T-440-1, T-460, T-462, T-465-1, T-480.

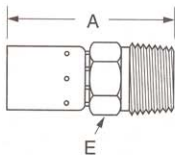
Ordering Information: Order individually by catalog number.

Label Set: FS-1500

Refer to pages 31-66 or the Weatherhead Hose End and Tool Selector Chart for Qualified Sizes.

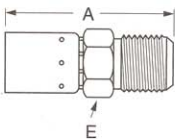
Refer to important safety information on page 3.

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
3/16	1/8	06904E-102	1/8-27	1.70	.75	.13	7/16
3/16	1/4	06904E-104	1/4-18	1.88	1.00	.13	9/16
1/4	1/4	06905E-104	1/4-18	1.88	1.00	.18	9/16
5/16	1/4	06906E-104	1/4-18	2.04	1.00	.24	5/8
5/16	3/8	06906E-106	3/8-18	2.03	1.00	.24	11/16
13/32	3/8	06908E-106	3/8-18	2.04	1.00	.31	3/4
13/32	1/2	06908E-108	1/2-14	2.29	1.25	.31	7/8
1/2	1/2	06910E-108	1/2-14	2.41	1.38	.39	7/8
1/2	3/4	06910E-112	3/4-14	2.47	1.38	.39	1-1/16
5/8	3/4	06912E-112	3/4-14	2.52	1.25	.51	1-1/16
7/8	3/4	06916E-112	3/4-14	2.69	1.44	.71	1-1/8
7/8	1	06916E-116	1-11-1/2	2.88	1.63	.75	1-3/8
1-1/8	1-1/4	06920E-120	1-1/4-11-1/2	3.06	1.69	1.00	1-11/16
1-3/8	1-1/2	06924E-124	1-1/2-11-1/2	3.37	2.00	1.25	2
1-13/16	2	06932E-132	2-11-1/2	3.38	2.00	1.63	2-1/2

JIC 37° Male Rigid

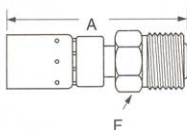


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
3/16	1/4	06904E-504	7/16-20	1.87	1.00	.13	1/2
1/4	5/16	06905E-505	1/2-20	1.87	1.00	.18	9/16
5/16	3/8	06906E-506	9/16-18	2.03	1.00	.24	5/8
13/32	1/2	06908E-508	3/4-16	2.19	1.19	.31	13/16
1/2	5/8	06910E-510	7/8-14	2.43	1.25	.39	15/16
5/8	3/4	06912E-512	1-1/16-12	2.63	1.38	.51	1-1/8
7/8	1	06916E-516	1-5/16-12	2.85	1.50	.75	1-3/8
1-1/8	1-1/4	06920E-520	1-5/8-12	3.06	1.63	1.00	1-11/16
1-3/8	1-1/2	06924E-524	1-7/8-12	3.17	1.81	1.25	2

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

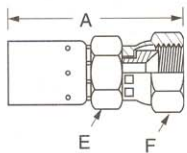
^a Swivel nuts are universal – both SAE 37° and 45° connections.

Inverted Male Swivel Straight



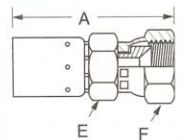
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/16	1/4	06904E-B04	7/16-24	2.58	1.56	.13	7/16
1/4	5/16	06905E-B05	1/2-20	2.63	1.63	.18	1/2
5/16	3/8	06906E-B06	5/8-18	2.87	1.78	.24	5/8
13/32	1/2	06908E-B08	3/4-18	3.24	2.06	.31	3/4

JIC 37° Female Swivel
(Exceptions Noted, Refer to Footnotes)



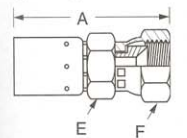
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/16	1/4	06904E-604 ^a	7/16-20	2.01	1.06	.13	7/16	9/16
1/4	5/16	06905E-605 ^a	1/2-20	2.09	1.19	.18	7/16	5/8
5/16	3/8	06906E-606	9/16-18	2.26	1.19	.24	9/16	11/16
5/16	1/2	06906E-608 ^a	3/4-16	2.41	1.31	.24	3/4	7/8
13/32	1/2	06908E-608 ^a	3/4-16	2.41	1.38	.31	3/4	7/8
1/2	1/2	06910E-608 ^a	3/4-16	2.53	1.44	.39	13/16	7/8
1/2	5/8	06910E-610 ^a	7/8-14	2.62	1.50	.39	13/16	1
5/8	3/4	06912E-612	1-1/16-12	2.77	1.50	.51	1	1-1/4
7/8	1	06916E-616	1-5/16-12	3.11	1.75	.75	1-1/4	1-1/2
1-1/8	1-1/4	06920E-620	1-5/8-12	3.30	1.81	1.00	1-9/16	2
1-3/8	1-1/2	06924E-624	1-7/8-12	3.45	2.13	1.25	2	2-1/4
1-13/16	2	06932E-632	2-1/2-12	4.15	2.81	1.63	2-1/2	3

SAE 45° Female Swivel



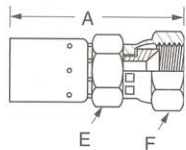
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/16	3/8	06906E-406	5/8-18	2.18	1.13	.24	9/16	3/4
5/8	3/4	06912E-412	1-1/16-14	2.81	1.50	.51	1	1-1/4

30° Flare Female Swivel
(PTT Thread For Diesel Applications)

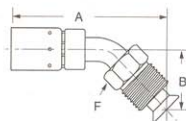


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
7/8	1	06916E-X26	1-5/16-14	2.96	1.69	.75	1-1/4	1-1/2

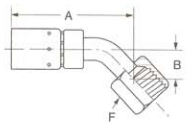
Female Swivel
30° Flare
(Komatsu, Linkbelt)



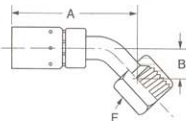
Inverted Male Swivel
45° Tube Elbow



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



SAE 45° Female Swivel
45° Tube Elbow



†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.

HOSE I.D.	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/16	06906E-18K	M18x1.5	2.38	1.31	.24	3/4	7/8
1/2	06910E-22K	M22x1.5	2.65	1.56	.39	13/16	1
5/8	06912E-24K	M24x1.5	2.88	1.56	.52	1	1-1/4
5/8	06912E-30K	M30x1.5	2.90	1.63	.52	1-1/4	1-3/8
7/8	06916E-33K	M33x1.5	3.11	1.81	.75	1-1/4	1-1/2
1-3/8	06924E-42K	M42x1.5	3.55	2.19	1.25	2	2-1/8

HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/16	1/4	06904E-E44	7/16-24	3.08	.93	2.06	.12	7/16
1/4	5/16	06905E-E45	1/2-20	3.42	1.14	2.44	.18	1/2
5/16	3/8	06906E-E46	5/8-18	3.65	1.34	2.56	.21	5/8

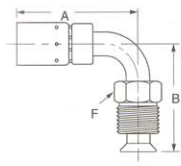
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/16	1/4	06904E-684 ^a	7/16-20	2.50	.33	1.50	.13	9/16
1/4	5/16	06905E-685 ^a	1/2-20	2.63	.36	1.63	.18	5/8
5/16	3/8	06906E-686	9/16-18	2.78	.38	1.69	.24	11/16
13/32	1/2	06908E-688 ^a	3/4-16	3.07	.55	1.83	.31	7/8
1/2	5/8	06910E-690 ^a	7/8-14	3.39	.63	2.31	.45	1
5/8	3/4	06912E-692	1-1/16-12	3.70	.78	2.38	.52	1-1/4
7/8	1	06916E-696	1-5/16-12	4.68	1.10	3.38	.75	1-1/2

HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
5/16	3/8	06906E-486	5/8-18	2.77	.39	1.69	.24	3/4
5/8	3/4	06912E-492	1-1/16-14	3.74	.78	2.44	.52	1-1/4

†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.

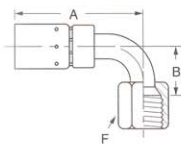
**Inverted Male Swivel
90° Tube Elbow**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/16	1/4	06904E-E04	7/16-24	2.31	1.36	1.25	.13	7/16
1/4	5/16	06905E-E05	1/2-20	2.59	1.61	1.56	.18	1/2
5/16	1/4	06906E-E04	7/16-24	2.43	1.36	1.31	.15	7/16
5/16	5/16	06906E-E05	1/2-20	2.66	1.61	1.56	.21	1/2
5/16	3/8	06906E-E06	5/8-18	2.94	1.97	1.85	.24	5/8
1/2	5/8	06910E-E10	7/8-18	3.27	2.58	2.30	.39	7/8

**JIC 37° Female Swivel 90°
Tube Elbow**

(Exceptions Noted, Refer to Footnotes)

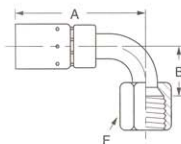


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/16	1/4	06904E-664 Ⓐ	7/16-20	2.41	.68	1.38	.13	9/16
1/4	5/16	06905E-665 Ⓐ	1/2-20	2.62	.77	1.63	.21	5/8
5/16	3/8	06906E-666	9/16-18	2.73	.85	1.78	.24	11/16
13/32	1/2	06908E-668 Ⓐ	3/4-16	2.87	1.09	1.75	.31	7/8
1/2	5/8	06910E-670 Ⓐ	7/8-14	3.52	1.23	2.44	.39	1
5/8	3/4	06912E-672	1-1/16-12	3.66	1.82	2.31	.58	1-1/4
7/8	1	06916E-676	1-5/16-12	4.40	2.14	3.13	.76	1-1/2
1-1/8	1-1/4*	06920E-657 □	1-5/8-12	4.22	5.31	2.88	1.00	2
1-1/8	1-1/4*	06920E-677	1-5/8-12	4.22	3.31	2.81	1.01	2
1-3/8	1-1/2*	06924E-678	1-7/8-12	4.18	3.02	2.81	1.25	2-1/2

* 20 and 24 size ends have crimped nuts.

□ Long drop elbow.

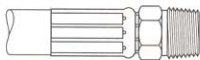
**SAE 45° Female Swivel 90°
Tube Elbow**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
5/16	3/8	06906E-466	5/8-18	2.76	.85	1.56	.24	3/4
5/8	3/4	06912E-472	1-1/16-14	3.64	1.82	2.31	.52	1-1/4

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

Hose End 336 'E' Series



Refer to pages 31-66 or the Weatherhead Hose End and Tool Selector Chart for Qualified Sizes.

⚠ Refer to important safety information on page 3.

Typical Application: General purpose high-pressure hydraulics. Use H336 non-conductive hose where shock hazards exist.

Compatible Hose: H335; H336

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is less. See page 14 for working pressure ratings for hose end configurations.

Material: Low Carbon Steel

Plating: Zinc; yellow dichromate finish

Advantages: Wide selection of hose and end configurations allowing for a diverse number of applications where hose compatibility is a problem.

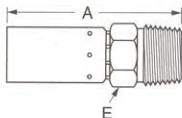
Assemble With: T-400-1, T-410-1, T-420-1, T-440-1, T-460, T-462, T-465, T-480.

Ordering Information: Order individually by catalog number.

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

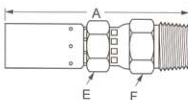
Label Set: FS-3500

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E
3/16	1/8	33603E-102	1/8-27	1.88	1.06	.11	9/16
3/16	1/4	33603E-104	1/4-18	2.06	1.25	.11	11/16
1/4	1/8	33604E-102	1/8-27	2.13	1.06	.16	5/8
1/4	1/4	33604E-104	1/4-18	2.31	1.25	.16	11/16
1/4	3/8	33604E-106	3/8-18	2.40	1.31	.16	3/4
3/8	1/4	33606E-104	1/4-18	2.59	1.15	.28	3/4
3/8	3/8	33606E-106	3/8-18	2.59	1.15	.28	3/4
3/8	1/2	33606E-108	1/2-14	2.84	1.41	.28	15/16
1/2	3/8	33608E-106	3/8-18	2.78	1.13	.39	7/8
1/2	1/2	33608E-108	1/2-14	3.03	1.38	.39	15/16
3/4	3/4	33612E-112	3/4-14	3.22	1.38	.63	1-1/8
1	1	33616E-116	1-11/2	3.97	1.62	.81	1-3/8

Male Pipe Swivel

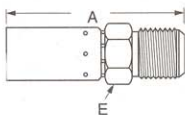


HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E	HEX F
3/16	1/4	33603E-J04	1/4-18	2.64	1.84	.11	5/8	11/16
1/4	1/4	33604E-J04	1/4-18	2.87	1.79	.16	5/8	11/16
3/8	3/8	33606E-J06	3/8-18	3.15	1.72	.28	3/4	3/4
3/8	1/2	33606E-J08	1/2-14	3.31	1.88	.28	3/4	7/8
1/2	1/2	33608E-J08	1/2-14	3.61	1.97	.39	7/8	15/16

Note: Swivel for installation purposes (Not for temperatures above 212°F)

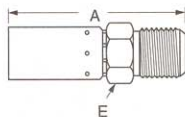
To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

JIC 37° Male Rigid



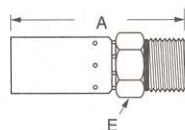
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E
3/16	1/4	33603E-504	7/16-20	2.05	1.25	.11	9/16
1/4	1/4	33604E-504	7/16-20	2.30	1.22	.16	5/8
1/4	5/16	33604E-505	1/2-20	2.30	1.23	.16	5/8
3/8	3/8	33606E-506	9/16-18	2.59	1.13	.28	3/4
3/8	1/2	33606E-508	3/4-16	2.69	1.25	.28	13/16
1/2	1/2	33608E-508	3/4-16	2.88	1.25	.39	7/8
1/2	5/8	33608E-510	7/8-14	3.10	1.42	.39	15/16
1/2	3/4	33608E-512	1-1/16-12	3.15	1.52	.39	1-1/8
3/4	3/4	33612E-512	1-1/16-12	3.32	1.52	.61	1-1/8

SAE 45° Flare Male Rigid



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E
3/16	1/4	33603E-304	7/16-20	2.00	1.19	.11	9/16
3/8	3/8	33606E-306	5/8-18	2.65	1.19	.28	3/4
1/2	1/2	33608E-308	3/4-16	3.03	1.31	.39	7/8

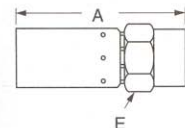
Male Straight Thread O-Ring Rigid



HOSE I.D.	PORT SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E
3/16	1/4	33603E-P04	7/16-20	1.86	1.06	.11	9/16
1/4	5/16	33604E-P05	1/2-20	2.11	1.03	.16	5/8
1/4	3/8	33604E-P06	9/16-18	2.14	1.06	.16	11/16
3/8	3/8	33606E-P06	9/16-18	2.42	1.00	.28	3/4
3/8	1/2	33606E-P08	3/4-16	2.47	1.03	.28	7/8
1/2	1/2	33608E-P08	3/4-16	2.78	1.03	.39	15/16
1/2	5/8	33608E-P10	7/8-14	2.84	1.16	.39	1-1/16

(Includes O-Ring)

Female Pipe Rigid

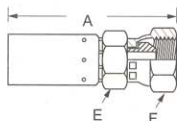


HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E
1/4	1/4	33604E-204	1/4-18	2.34	1.25	.16	3/4
1/2	1/2	33608E-208	1/2-14	3.03	1.31	.39	1-1/16

†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.

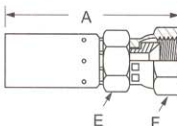
Female Straight Pipe Swivel



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	33604E-054	1/4-18	2.38	1.31	.16	5/8	3/4
3/8	3/8	33606E-056	3/8-18	2.66	1.22	.28	3/4	7/8
1/2	1/2	33608E-058	1/2-14	3.06	1.38	.39	1	1
3/4	3/4	33612E-062	3/4-14	3.43	1.62	.63	1-1/8	1-1/8

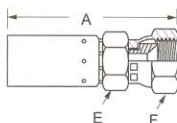
Note: For use with male pipe fittings with internal seat.

JIC 37° Female Swivel
(Exceptions Noted, Refer to Footnotes)



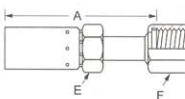
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/16	1/4	33603E-604 ^a	7/16-20	2.16	1.38	.11	9/16	5/8
3/16	5/16	33603E-605 ^a	1/2-20	2.16	1.38	.11	9/16	3/4
1/4	1/4	33604E-604 ^a	7/16-20	2.53	1.44	.16	5/8	5/8
1/4	5/16	33604E-605 ^a	1/2-20	2.53	1.44	.16	5/8	3/4
1/4	3/8	33604E-606	9/16-18	2.53	1.44	.16	5/8	3/4
3/8	3/8	33606E-606	9/16-18	2.81	1.38	.28	3/4	3/4
3/8	1/2	33606E-608 ^a	3/4-16	2.81	1.38	.28	3/4	15/16
1/2	1/2	33608E-608 ^a	3/4-16	3.16	1.63	.39	7/8	15/16
1/2	5/8	33608E-610 ^a	7/8-14	3.16	1.63	.39	7/8	1-1/16
3/4	3/4	33612E-612	1-1/16-12	3.44	1.63	.63	1-1/8	1-1/4
1	1	33616E-616	1-5/16-12	4.06	1.75	.81	1-3/8	1-1/2

SAE 45° Female Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	3/8	33604E-406	5/8-18	2.53	1.44	.16	5/8	13/16
3/8	3/8	33606E-406	5/8-18	2.81	1.38	.28	3/4	13/16

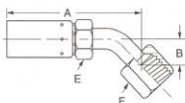
Female FOR-SEAL® Swivel Straight



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	33604E-S64	9/16-18	2.60	1.52	.16	5/8	11/16
3/8	3/8	33606E-S66	11/16-16	2.92	1.61	.21	3/4	13/16
1/2	1/2	33608E-S68	13/16-16	3.29	1.72	.38	7/8	15/16
3/4	3/4	33612E-S72	1-3/16-12	3.71	1.95	.61	1-1/8	1-3/8
1	1	33616E-S76	1-7/16-12	4.36	2.11	.81	1-3/8	1-5/8

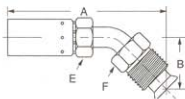
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.
^a Swivel nuts are universal – both SAE 37° and 45° connections.

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



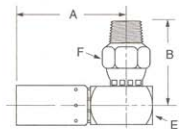
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/16	1/4	33603E-684 ^a	7/16-20	2.30	.47	1.50	.11	9/16	9/16
1/4	5/16	33604E-685 ^a	1/2-20	2.65	.53	1.56	.16	5/8	5/8
3/8	3/8	33606E-686	9/16-18	2.92	.59	1.48	.28	3/4	11/16
3/8	1/2	33606E-688 ^a	3/4-16	3.10	.71	1.66	.28	3/4	7/8
1/2	1/2	33608E-688 ^a	3/4-16	3.28	.71	1.66	.39	7/8	7/8
1/2	5/8	33608E-690 ^a	7/8-14	3.52	.84	1.84	.39	7/8	1
3/4	3/4	33612E-692	1-1/16-12	4.33	1.12	2.44	.62	1-1/8	1-1/4

Inverted Male Swivel 45° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/8	3/8	33606E-B46	5/8-18	3.30	.97	1.88	.28	3/4	5/8

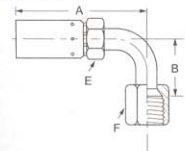
Male Pipe Swivel 90° Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/8	3/8	33606E-M06	3/8-18	2.19	1.64	.88	.28	.81	3/4
1/2	1/2	33608E-M08	1/2-14	2.48	1.95	.94	.39	1	15/16

Note: Swivel for installation purposes only.
 (Not for temperatures above 212°F)

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

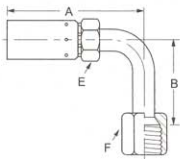


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	33604E-664 ^a	7/16-20	2.28	.88	1.31	.16	5/8	9/16
1/4	5/16	33604E-665 ^a	1/2-20	2.38	1.00	1.31	.16	5/8	5/8
3/8	3/8	33606E-666	9/16-18	2.63	1.13	1.19	.28	3/4	11/16
3/8	1/2	33606E-668 ^a	3/4-16	2.75	1.38	1.31	.28	3/4	7/8
1/2	1/2	33608E-668 ^a	3/4-16	2.94	1.38	1.31	.39	7/8	7/8
1/2	5/8	33608E-670 ^a	7/8-14	3.06	1.63	1.44	.39	7/8	1
3/4	5/8	33612E-670 ^a	7/8-14	3.38	1.63	1.56	.50	1-1/8	1
3/4	3/4	33612E-672	1-1/16-12	3.88	2.31	2.06	.62	1-1/8	1-1/4
1	1	33616E-676	1-5/16-12	4.75	2.50	2.31	.58	1-3/8	1-1/2

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

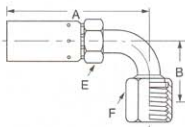
^a Swivel nuts are universal – both SAE 37° and 45° connections.

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



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	5/16	33604E-645 ^a	1/2-20	2.38	1.77	1.30	.16	5/8	5/8
3/8	3/8	33606E-646	9/16-18	2.63	2.18	1.19	.28	3/4	11/16
3/8	1/2	33606E-648 ^a	3/4-16	2.75	2.43	1.31	.28	3/4	7/8
1/2	5/8	33608E-650 ^a	7/8-14	3.06	2.57	1.44	.39	7/8	1
3/4	3/4	33612E-652	1-1/16-12	3.88	3.73	2.06	.62	1-1/8	1-1/4

Female FOR-SEAL®
Swivel Short Drop 90° Elbow

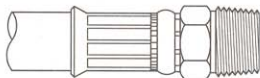


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	33604E-A24	9/16-18	2.31	.78	1.23	.16	5/8	11/16
3/8	3/8	33606E-A26	11/16-16	2.74	.90	1.43	.28	3/4	13/16
1/2	1/2	33608E-A28	13/16-16	3.04	1.15	1.48	.39	7/8	15/16
3/4	3/4	33612E-A32	1-3/16-12	3.78	1.88	2.02	.63	1-1/8	1-3/8

COLL-O-CRIMP® 470 'E' 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 470 'E' Series



Refer to pages 31-66 or the Weatherhead Hose End and Tool Selector Chart for Qualified Sizes.

WARNING - 47032E ends can ONLY be crimped on the T-440.

Ordering Information: Order individually by catalog number; reference individual hose end listings for details. For split flange kits, refer to pages 317-320.

Refer to important safety information on page 3.

Typical Application: Very high pressure hydraulic lines subjected to extreme pressure surges and flexing. Some applications include mining, construction, farming and high performance industrial equipment.

Compatible Hose: H470

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See page 14 for working pressure ratings for hose end configurations.

Material: Low Carbon Steel

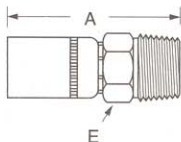
Plating: Zinc; yellow dichromate finish

Advantages: SAE Code 62 High Pressure Series hose ends. Excellent series for very high pressure hydraulics. Compatible with Caterpillar, John Deere, and most major manufacturers of equipment using high pressure applications.

Assemble With: T-410-1 Coll-O-Crimp® II, T-420-1 Coll-O-Crimp® Super I, T-440-1 Coll-O-Crimp II Plus or T-480 depending on size.

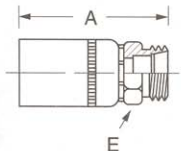
Label Set: FS-1800

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/2	1/2	47008E-108	1/2-14	2.79	1.38	.38	7/8
3/4	3/4	47012E-112	3/4-14	3.80	1.75	.61	1-1/16
1	1	47016E-116	1-11/2	4.30	1.94	.80	1-3/8
1-1/4	1-1/4	47020E-120	1-1/4-11-1/2	5.56	2.44	1.00	1-3/4
1-1/2	1-1/2	47024E-124	1-1/2-11-1/2	5.61	2.25	1.25	2-1/8
2	2	47032E-132	2-11-1/2	6.53	2.75	1.56	2-3/4

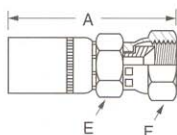
Male DIN 24° Seat s. Rh. (Heavy)



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD (MM)	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
3/4	25	47012E-25F	M36-2.0	3.56	1.61	.58	1-3/8
1	30	47016E-30F	M42-2.0	4.26	1.88	.79	1-3/4
1-1/4	38	47020E-38F	M52-2.0	5.22	3.81	1.00	2-1/4

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

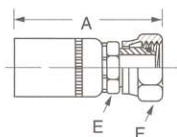
JIC 37° Female Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/2	1/2	47008E-608	3/4-16	2.97	1.56	.39	7/8	7/8
3/4	3/4	47012E-612	1-1/16-12	3.90	1.88	.58	1-1/16	1-1/4
3/4	1	47012E-616	1-5/16-12	3.98	1.94	.58	1-1/4	1-1/2
1	1	47016E-616	1-5/16-12	4.34	2.00	.80	1-3/8	1-1/2
1-1/4	1-1/4	47020E-620	1-5/8-12	5.72	2.56	1.00	1-3/4	2
1-1/2	1-1/2	47024E-624	1-7/8-12	6.04	2.63	1.25	2-1/8	2-1/4
2	2	47032E-632	2-1/2-12	6.98	3.22	1.56	2-3/4	3

⚠ WARNING - □ Before crimping this fitting on a T-440 C-O-C machine, refer to T-440 crimping procedures on page 348-350.

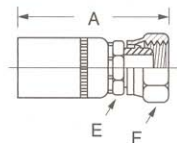
Female Swivel DIN 24° Seat s. Rh. DKO (Heavy)



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/4	25	47012E-75C	M36x2.0	3.94	1.88	.58	1-5/16	1-13/16
1	30	47016E-80C	M42x2.0	4.60	2.25	.79	1-5/8	2
1-1/4	38	47020E-88C	M52x2.0	5.96	2.63	1.00	2	2-3/8

(Includes O-Ring)

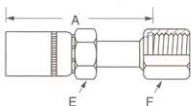
British Standard (BSPP) 60° Cone Female Pipe Swivel



HOSE I.D.	BSPP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/4	3/4	47012E-362	G-3/4-14*	3.99	1.69	.58	1-1/16	1-1/4
1	1	47016E-366	G-1-11*	4.75	2.23	.79	1-3/8	1-1/2
1-1/4	1-1/4	47020E-370	G-1-1/4-11*	6.26	2.44	1.00	1-7/8	1-7/8
1-1/2	1-1/2	47024E-374	G-1-1/2-11*	6.46	3.04	1.18	2	2-1/4
2	2	47032E-375	G-2-11*	6.85	3.06	1.56	2-3/4	2-3/4

*G As Part of Thread Size is ISO Designation for Parallel Thread. Swivel Nut Style may vary.

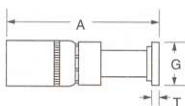
Female FOR-SEAL® Swivel Straight



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/4	3/4	47012E-S72	1-3/16-12	4.20	2.16	.55	1-1/8	1-3/8
1	1	47016E-S76	1-7/16-12	4.65	2.31	.79	1-3/8	1-5/8
1	1-1/4	47016E-S80	1-11/16-12	4.65	2.31	.79	1-3/8	1-7/8
1-1/4	1-1/4	47020E-S80	1-11/16-12	5.76	2.62	1.00	1-3/4	1-7/8

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

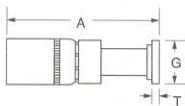
Split Flange Straight
(SAE Code 61)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
1/2	1/2	47008E-G08	8x252	3.79	2.38	.38	1.19	.265
3/4	3/4	47012E-G12	12x252	4.46	2.44	.58	1.50	.265
3/4	1	47012E-G16	16x252	4.46	2.44	.58	1.75	.315
1	1	47016E-G16	16x252	4.91	2.56	.77	1.75	.315
1-1/4	1-1/4	47020E-G20	20x252	5.84	2.69	1.00	2.00	.315
1-1/2	1-1/2	47024E-G24	24x252	6.83	3.50	1.25	2.38	.315
2	2	47032E-G32	32x252	7.82	4.06	1.81	2.81	.375

(For Split Flange Kits, see page 317-320.)

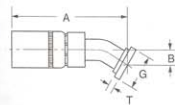
Split Flange Straight
(SAE Code 62)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
3/4	3/4	47012E-D12	12x252	4.75	2.75	.58	1.62	.345
3/4	1	47012E-D16	16x252	4.94	2.88	.58	1.88	.375
1	1	47016E-D16	16x252	4.91	2.56	.77	1.88	.375
1	1-1/4	47016E-D20	20x252	5.10	2.75	.77	2.12	.405
1	1-1/2	47016E-D24	24x252	5.30	2.94	.77	2.50	.495
1-1/4	1-1/4	47020E-D20	20x252	5.73	2.63	1.00	2.12	.405
1-1/4	1-1/2	47020E-D24	24x252	5.91	2.75	1.00	2.50	.495
1-1/2	1-1/4	47024E-D20	20x252	6.87	3.44	1.00	2.12	.405
1-1/2	1-1/2	47024E-D24	24x252	6.71	3.31	1.25	2.50	.495

(For Split Flange Kits, see page 320.)

Split Flange 30° Tube Elbow
(SAE Code 62)

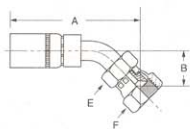


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
1	1-1/2	47016E-N25	24x252	6.46	1.11	4.06	.75	2.50	.495
1-1/4	1-1/2	47020E-N25	24x252	7.45	1.09	4.31	1.06	2.50	.495

(For Split Flange Kits, see page 317-320.)

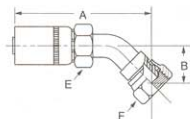
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

JIC 37° Female Swivel 45° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/2	1/2	47008E-688	3/4-16	4.24	1.14	2.81	.39	7/8	7/8
3/4	3/4	47012E-692	1-1/16-12	5.79	1.66	3.75	.61	1-1/8	1-1/4
1	1	47016E-696	1-5/16-12	6.45	1.78	4.19	.80	1-3/16	1-1/2

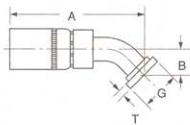
British Standard (BSPP) 60° Cone Female Pipe Swivel 45° Elbow



HOSE I.D.	BSPP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA./HEX E	HEX F
3/4	3/4	47012E-52P	G-3/4-14*	5.80	1.66	3.75	.61	1-1/16	1-1/4
1	1	47016E-56P	G-1-11*	6.54	1.92	4.19	.75	1-3/8	1-1/2

*G As Part of Thread Size is ISO Designation for Parallel Thread.

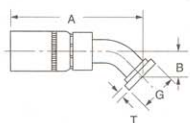
Split Flange 45° Tube Elbow (SAE Code 61)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA G	T NOMINAL
1/2	1/2	47008E-G41	8x252	3.94	.78	2.50	.38	1.19	.265
3/4	3/4	47012E-G42	12x252	5.47	1.34	3.44	.58	1.50	.265
1	1	47016E-G46	16x252	6.09	1.42	3.75	.75	1.75	.315
1-1/4	1-1/4	47020E-G50	20x252	7.13	1.40	4.00	1.00	2.00	.315
1-1/2	1-1/2	47024E-G54	24x252	7.81	1.41	4.38	1.25	2.38	.315
2	2	47032E-G62	32x252	9.36	2.00	5.56	1.81	2.81	.375

(For Split Flange Kits, see page 317-320.)

Split Flange 45° Tube Elbow (SAE Code 62)

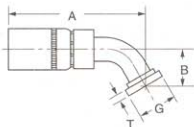


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA G	T NOMINAL
3/4	3/4	47012E-D42	12x252	5.48	1.36	3.44	.58	1.62	.345
3/4	1	47012E-D46	16x252	5.62	1.50	3.56	.58	1.88	.375
1	1	47016E-D46	16x252	6.09	1.42	3.75	.79	1.88	.375
1	1-1/4	47016E-D50	20x252	6.20	1.56	3.83	.79	2.12	.405
1-1/4	1-1/4	47020E-D50	20x252	7.18	1.46	4.00	1.00	2.12	.405
1-1/4	1-1/2	47020E-D54	24x252	7.31	1.58	4.19	1.00	2.50	.495
1-1/2	1-1/2	47024E-D54	24x252	7.99	1.60	4.56	1.19	2.50	.495

(For Split Flange Kits, see page 317-320.)

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

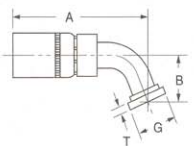
**Split Flange 60° Tube Elbow
(SAE Code 62)**



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
1-1/4	1-1/2	47020E-N55	24x252	7.35	2.28	4.19	1.06	2.50	.495

(For Split Flange Kits, see page 317-320)

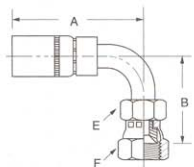
**Split Flange 67 1/2° Tube Elbow
(SAE Code 62)**



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
1	1	47016E-N63	16x252	6.02	2.24	3.63	.75	1.88	.375

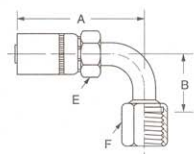
(For Split Flange Kits, see page 317-320)

**JIC 37° Female Swivel
90° Tube Elbow**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/2	1/2	47008E-668	3/4-16	3.53	2.12	2.80	.39	7/8	7/8
3/4	3/4	47012E-672	1-1/16-12	5.01	3.05	3.74	.61	1-1/8	1-1/4
1	1	47016E-676	1-5/16-12	5.52	3.30	4.17	.80	1-3/16	1-1/2

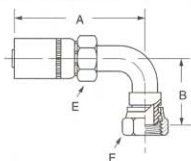
**Female FOR-SEAL® Swivel
Short 90° Tube Elbow Drop**



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1-1/4	1-1/4	47020E-A40	1-11/16-12	6.51	2.51	3.38	1.00	1-3/4	1-7/8

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

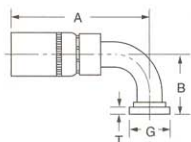
**British Standard (BSPP)
60° Cone Female Pipe
Swivel 90° Elbow**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/4	3/4	47012E-82P	G-3/4-14*	4.98	2.49	2.94	.61	1-1/8	1-1/4
1	1	47016E-86P	G-1-11*	5.52	3.43	3.13	.75	1-3/8	1-1/2

*G As part of thread size is ISO designation for Parallel thread.

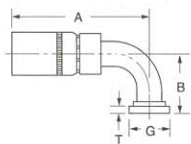
**Split Flange 90° Tube
Elbow (SAE Code 61)**



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
1/2	1/2	47008E-G71	8x252	3.59	1.62	2.13	.50	1.19	.265
3/4	3/4	47012E-G72	12x252	5.01	2.59	2.94	.61	1.50	.265
3/4	1	47012E-G76	16x252	5.01	2.59	2.94	.58	1.75	.315
1	1	47016E-G76	16x252	5.52	2.78	3.19	.75	1.75	.315
1-1/4	1-1/4	47020E-G80	20x252	6.61	2.43	3.50	1.12	2.00	.315
1-1/2	1-1/2	47024E-G84	24x252	7.57	3.12	4.19	1.44	2.38	.315
2	2	47032E-G92	32x252	8.88	4.50	5.13	1.81	2.81	.375

(For Split Flange Kits, see page 317-320.)

**Split Flange 90° Tube
Elbow (SAE Code 62)**



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
3/4	3/4	47012E-D72	12x252	5.01	2.62	2.94	.64	1.62	.345
3/4	1	47012E-D76	16x252	5.01	2.81	2.94	.60	1.88	.375
1	1	47016E-D76	16x252	5.52	2.79	3.13	.86	1.88	.375
1	1-1/4	47016E-D80	20x252	5.52	2.94	3.13	.86	2.12	.405
1	1-1/2	47016E-D84	24x252	5.75	3.42	3.39	.75	2.50	.495
1-1/4	1-1/4	47020E-D80	20x252	6.61	3.02	3.50	1.03	2.12	.405
1-1/4	1-1/4	47020E-D80L47	20x252	6.61	4.70	3.50	1.03	2.12	.405
1-1/4	1-1/4	47020E-D80L60	20x252	6.61	6.00	3.50	1.03	2.12	.405
1-1/4	1-1/2	47020E-D84	24x252	6.61	3.68	3.50	1.03	2.50	.495
1-1/2	1-1/4	47024E-D80	20x252	6.77	3.02	3.38	1.03	2.12	.405
1-1/2	1-1/2	47024E-D84	24x252	7.57	3.68	4.19	1.28	2.50	.495

(For Split Flange Kits, see page 317-320.)

E-Z Clip System™

GH134 Multi-Refrigerant Hose
SAE J2064 Type E Class 1



Typical Application: Transportation, refrigeration and air conditioning systems.

Temp. Range: -22°F to +257°F (-30°C to +125°C).

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

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

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

R407C Effusion: 20 kg./m²/yr. at 80°C

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

CATALOG NUMBER	HOSE I.D. MM/IN	HOSE O.D. MM/IN	WORKING PRESS. BAR/PSI	E-Z CLIP MIN. BURT PRESS. BAR/PSI	MIN. BEND RADIUS MM/IN	WT. PER 100 FT. POUNDS	HOSE END
GH134-6W	7.9/31	14.7/58	35/500	140/2000	50/2.00	.09	E-Z Clip Series Pages 115-138
GH134-8W	10.3/41	17.8/70	35/500	140/2000	63/2.50	.12	
GH134-10W	12.7/50	19.8/78	35/500	140/2000	76.2/3.00	.15	
GH134-12W	15.9/63	24.9/98	35/500	140/2000	101.6/4.00	.18	

Warning

E-Z Clip has been designed and engineered to work EXCLUSIVELY with Weatherhead GH134 hose.

For information regarding other refrigerants and lubricants, please contact Eaton customer service at 952-937-9800.

Features

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

Benefits

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

Important

Special care should be taken when selecting the proper refrigerant hose and fittings. The information contained in this bulletin is provided as a general guide to assist in making the appropriate product selection. This guide does not address every parameter that must be considered when selecting a product. The user must make the final product selection in consideration of the user's unique requirements.

Additionally, special care must be taken when working with refrigerant systems. Sudden escape of refrigerant gases may result in blindness or severe injury. Eaton recommends adherence to the guidelines and general practices as defined in SAE J2211 for the service and containment of HFC-134a,

as well as all applicable EPA guidelines and procedures concerning the service of refrigerant systems.

Warning

Weatherhead fitting tolerances are engineered to match Weatherhead hose tolerances. The use of Weatherhead fittings on hose supplied by other manufacturers and/or the use of Weatherhead hose with fittings supplied by other manufacturers may result in the production of unreliable and unsafe hose assemblies and is not authorized by Eaton.

EATON SHALL NOT BE SUBJECT TO AND DISCLAIMS ANY OBLIGATIONS OR LIABILITIES (INCLUDING BUT NOT LIMITED TO ALL CONSEQUENTIAL, INCIDENTAL AND

CONTINGENT DAMAGES) ARISING OUT OF BREACH OF CONTRACT OR OF WARRANTY OR ARISING FROM TORT CLAIMS (INCLUDING WITHOUT LIMITATION NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW WITH RESPECT TO ANY HOSE ASSEMBLIES NOT PRODUCED FROM GENUINE WEATHERHEAD HOSE FITTINGS, HOSE AND WEATHERHEAD APPROVED EQUIPMENT, AND IN CONFORMANCE WITH WEATHERHEAD PROCESS AND PRODUCT INSTRUCTIONS FOR EACH SPECIFIC HOSE ASSEMBLY.

Part Numbers and Dash Sizes

The first two numbers of the dash size of each part number, (example: -0608) indicates the size of the terminal, or connecting end. The second two numbers of the dash sizes (example: -0608) indicates the hose size. In the example -0608, 08 is the hose size.

Dimensions

Dimensions given in this catalog for Weatherhead products are approximate and should be used for reference only. Exact dimensional information for a given product is subject to change and varying tolerances; contact Eaton directly for full current information.

E-Z Clip System™

End Connections & O-rings

Lubricant Compatibility Chart

LUBRICANT	HOSE STYLE GH134
Mineral Oil	Y
PAG	Y
Ester Oil	Y
Alkylbenzene	*

Y = Compatible N = Non-compatible

*Review application with Engineering Support.

Refrigerant Compatibility Chart of Refrigerant Hoses

REFRIGERANT	HOSE STYLE GH134
R-12	Y
R-22	Y
R-134a	Y
R-502	Y
MP39	Y
MP66	Y
R404a	Y

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

O-rings for Bump Tube O-ring Seal and O-ring Pilot Fittings

(O-rings for o-ring pilot end must be purchased separately)



ZW747

Material: Nitrile

Durometer: 70

Temperature Range: -40°F to +250°F



FF90178

Material: HNBR

Durometer: 70

Temperature Range: -25°F to +300°F

O-RING CATALOG NUMBER	O-RING PILOT DASH SIZE	A	E
ZW74706	-06	.301	.07
ZW74708	-08	.426	.07
ZW74710	-10	.551	.07
ZW74712	-12	.676	.07

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

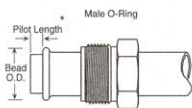
E-Z Clip System™

End Connections

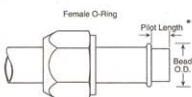
How to Identify O-ring Pilot Thread Sizes

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,

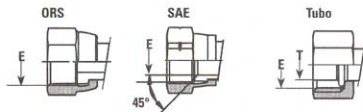
either long or short. The seal takes place by compressing an O-ring adjacent to the bead of the tube. The threads hold the connection together mechanically.



INCH SIZE	DASH SIZE	MALE THREAD O.D. (INCH)			FEMALE THREAD I.D. (INCH)		
		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	.99



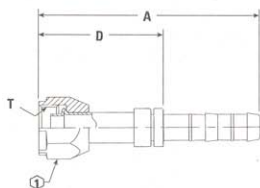
INCH SIZE	NOMINAL TUBE SIZE	LONG PILOT**		SHORT PILOT*	
		BEAD O.D. (INCH)	PILOT LENGTH	BEAD O.D. (INCH)	PILOT LENGTH
3/8	06	.52	.28	.52	.19
1/2	08	.64	.39	.64	.19
5/8	10	.77	.39	.77	.19
3/4	12	.91	.39	.91	.19



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

E-Z Clip System™ Fittings

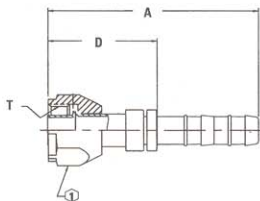
FJ5984



Straight - Female O-ring (short pilot)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

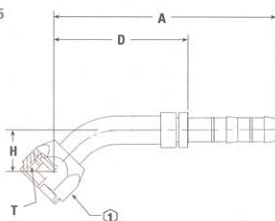
FJ3408



Straight - Female O-ring, Metric Thread (long pilot)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

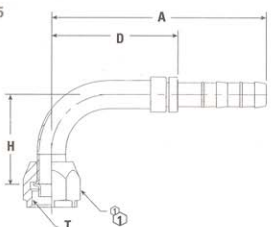
FJ3055



45° Elbow Female O-ring (short pilot)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

FJ5985

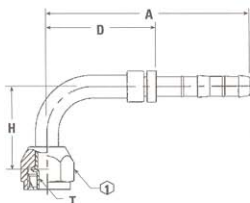


90° Elbow - Female O-ring (short pilot)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

E-Z Clip System™ Fittings

FJ3288

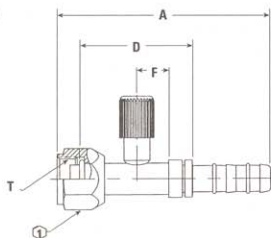


90° Female O-ring (long pilot)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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*	7/8-16	10	3.78	2.23	—	1.62	0.88

*May not be available.

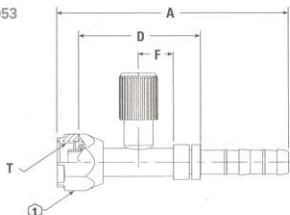
FJ3054



Straight - Female O-ring (short pilot) with R134a Low Side Port

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

FJ3053



Straight - Female O-ring (short pilot) with R134a High Side Port

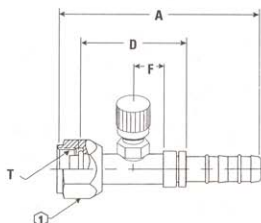
CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3053-0606S	5/8-18	6	3.91	2.10	0.63	—	0.75
FJ3053-0806S*	3/4-16	6	4.06	2.26	0.63	—	0.88
FJ3053-0808S	3/4-16	8	4.09	2.16	0.63	—	0.88
FJ3053-0810S	3/4-16	10	4.09	2.16	0.63	—	0.88

*May not be available.

E-Z Clip System™

Fittings

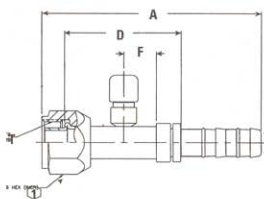
FJ3162



Straight – Female O-ring (long pilot) with Switch Port (7/16-20 thd)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

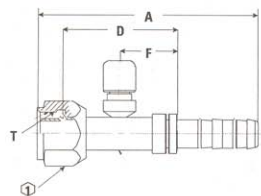
FJ3416



Straight – Female O-ring (long pilot) with Switch Port (M10 X 1.25)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3416-01-1010S	7/8-14	10	4.25	2.25	.63	—	1.06

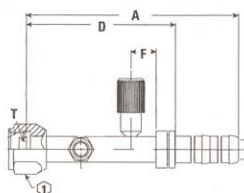
FJ3461



Straight – Female O-ring (long pilot) with Switch Port (M12 X 1.25)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

FJ3363



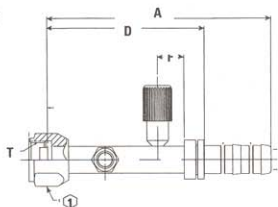
Straight – Female O-ring (short pilot), with R134a High side port and female switch connection, (1/8-27 thread)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

E-Z Clip System™

Fittings

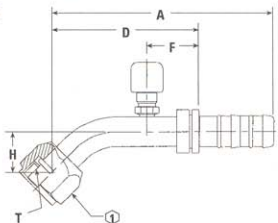
FJ3363



Straight - Female O-ring (short pilot), with R134a Low side port and female switch connection, (1/8-27 thread)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3363-01-1012S	7/8-14	12	5.30	3.72	.63	—	1.06

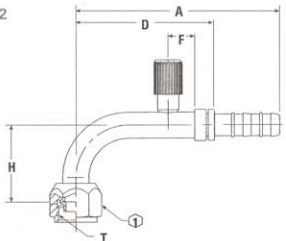
FJ3230



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

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

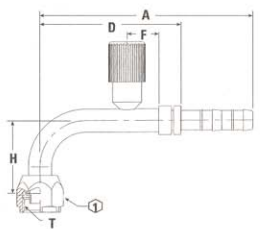
FJ3012



90° Female O-ring (short pilot) with R134a Low Side Port

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

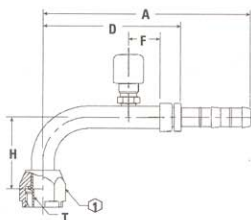


90° Female O-ring (short pilot) with R134a High Side Port

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

E-Z Clip System™ Fittings

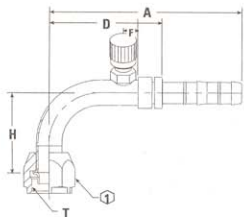
FJ3289



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

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3289-01-0808S	3/4-16	8	4.61	2.59	0.69	1.62	0.88
FJ3289-02-1010S	7/8-14	10	4.80	2.77	0.63	1.93	1.06
FJ3289-03-0606S	5/8-18	6	4.35	2.82	0.69	1.35	0.75
FJ3289-04-0810S	3/4-16	10	4.62	2.59	0.69	1.62	0.88
FJ3289-05-1012S	7/8-14	12	4.82	2.77	.63	1.93	1.06

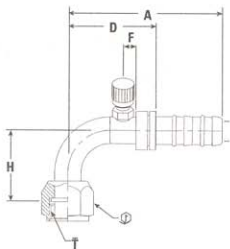
FJ3163



90° Elbow - Female O-ring (short pilot) with Switch Port (7/16-20 thd)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3163-01-1010S	7/8-14	10	4.80	3.25	0.79	1.89	1.06
FJ3163-02-1212S	1-1/16-14	12	5.08	3.50	0.79	2.56	1.25

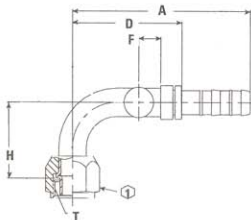
FJ3047



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

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3047-1012S	7/8-14	12	4.06	2.48	0.50	1.69	1.06

FJ3444

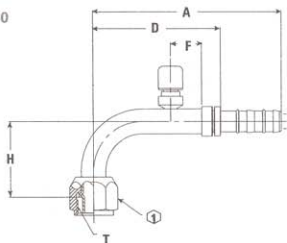


90° Female O-ring (long pilot) with Switch Port (7/16-20Thd) - 90° Port Rotation

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3444-1010S	7/8-14	10	4.03	2.48	.50	1.69	1.06

E-Z Clip System™ Fittings

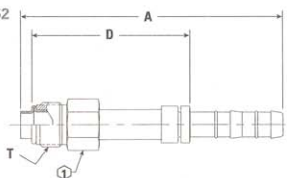
FJ3460



90° Female O-ring (long pilot) with Switchport (M12 X 1.25)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3460-01-1010S	7/8-14	10	4.80	3.25	0.79	1.89	1.06
FJ3460-01-1012S	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

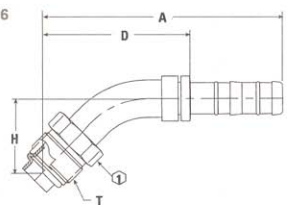
FJ3052



Straight Male O-ring (short pilot)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

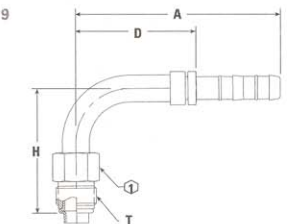
FJ3116



45° Male O-ring (short pilot)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

FJ3019



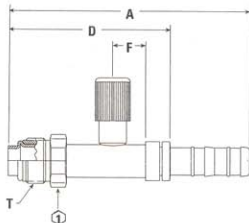
90° Male O-ring (short pilot)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

E-Z Clip System™

Fittings

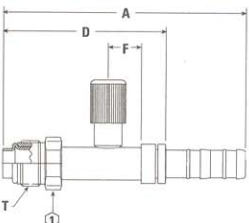
FJ3132



Straight Male O-ring (short pilot) with R134a Low Side Port

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
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

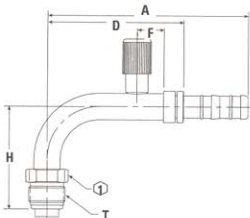
FJ3131



Straight Male O-ring (short pilot) with R134a High Side Port

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
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

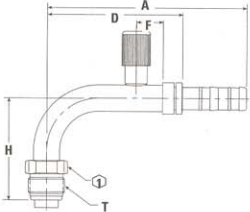
FJ3134



90° Elbow Male O-ring (short pilot) with R134a High Side Port

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
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

FJ3135

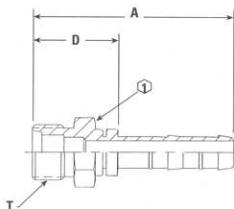


90° Elbow Male O-ring (short pilot) with R134a Low Side Port

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
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

E-Z Clip System™ Fittings

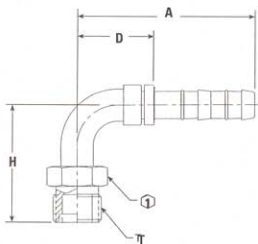
FJ3026



Male MIO (male insert O-ring) Straights

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

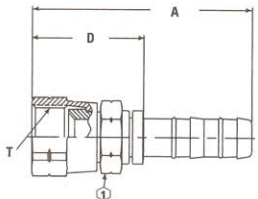
FJ3056



90° Male MIO (male insert O-ring)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

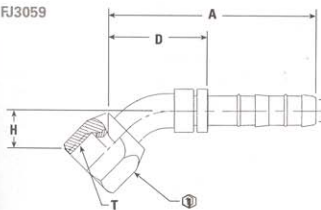
FJ3057



Female SAE 45° Flares

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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

FJ3059



45° Female SAE 45° and Universal Flares

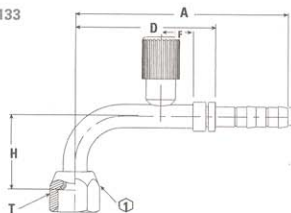
CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3059-01-0606S†	5/8-18	6	2.61	1.08	—	0.39	0.75
FJ3059-02-0608S†	5/8-18	8	2.62	1.08	—	0.39	0.75
FJ3059-03-0808S*	3/4-16	8	2.97	1.43	—	0.55	0.88
FJ3059-04-0810S*	3/4-16	10	2.98	1.43	—	0.55	0.88
FJ3059-05-1010S*	7/8-14	10	3.08	1.53	—	0.63	1.00
FJ3059-06-1012S*	7/8-14	12	3.11	1.53	—	0.63	1.00

†Double notch in nut for universal type identification

*Universal Flare

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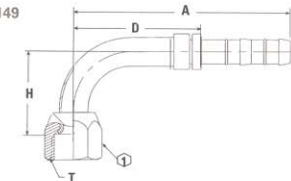
FJ3133



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

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
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

FJ3149



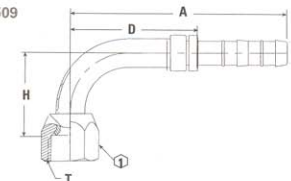
90° Female SAE 45° and Universal Flares

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
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	1.00
FJ3149-05-1012S*	7/8-14	12	3.09	1.54	—	1.19	1.00
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

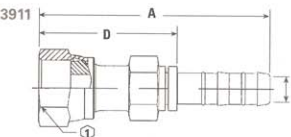
FJ3509



90° Female JIC

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3509-0606S	9/16-18	6	2.50	.98	—	2.18	.69
FJ3509-0608S	9/16-18	8	2.52	.98	—	2.18	.69
FJ3509-1212S	1-1/16-12	12	3.36	1.78	—	3.73	1.25

GA23911



Straight – ORS Female Swivel Metric Hex Nut^Δ

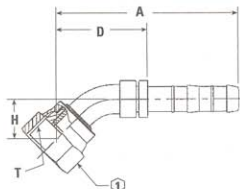
CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
GA23911-6-6	1-1/16-16	6	2.95	1.43	—	—	22mm
GA23911-8-8	1-3/16-16	8	3.17	1.62	—	—	24mm
GA23911-10-12	1-14	12	3.32	1.74	—	—	30mm
GA23911-10-10	1-14	10	3.33	1.78	—	—	30mm
GA23911-12-12	1-3/16-12	12	3.38	1.80	—	—	36mm

^ΔMetric Hex

E-Z Clip System™

Fittings

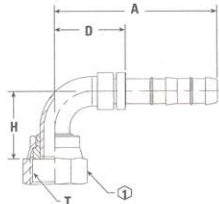
FJ3161
GA23912



45° ORS Female Swivel

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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
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

FJ5994

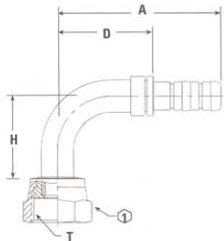


90° ORS Female Swivel

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ5994-01-0606S*	11/16-16	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

*October 2003 part number will change to GA23913-size.

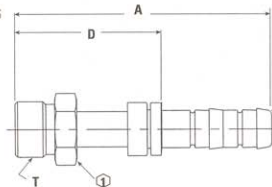
FJ3319



90° ORS Female Swivel (long drop)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3319-1212S	1-3/16-12	12	3.82	2.24	—	2.38	1.13

FJ3136

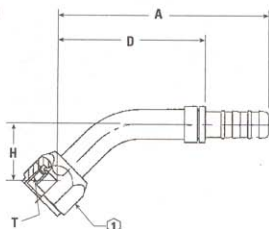


Straight Male O-ring (rigid) Metric Thread

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3136-0810S	M20 x 1.5	10	3.62	2.07	0.69	—	0.88

E-Z Clip System™ Fittings

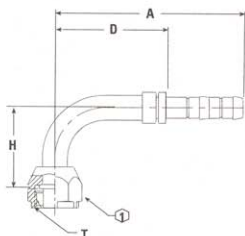
FJ3192



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

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3192-02-1212S	M27x2	12	4.74	3.17	—	1.47	1.25
FJ3192-01-1212S	M27x2	12	5.33	3.75	—	2.56	1.25

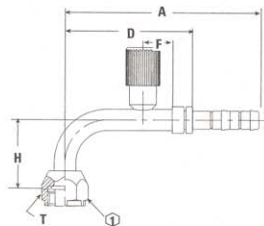
FJ3111
FJ3409



90° Female O-ring (long pilot) Metric Thread

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3111-01-0808S	M20 x 1.5	8	3.77	2.23	—	1.62	0.94
FJ3111-02-0810S	M20 x 1.5	10	3.78	2.23	—	1.62	0.94
FJ3111-03-0806S	M20 x 1.5	6	3.75	2.23	—	1.62	0.94
FJ3409-1212S	M27 x 2	12	4.74	3.16	—	2.56	1.25

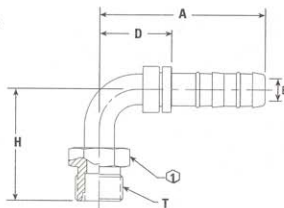
FJ3112



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

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3112-01-0808S	M20 x 1.5	8	4.52	2.98	0.69	1.62	0.94

FJ3113



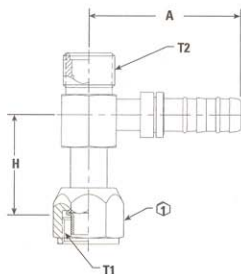
90° Male O-ring (rigid) Metric Thread

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3113-0810S	M20 x 1.5	8	2.75	1.20	—	1.82	0.88

E-Z Clip System™

Fittings

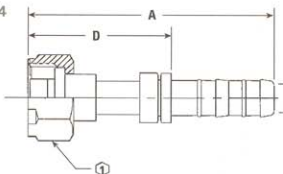
FJ3067
FJ3495



GM Tie In - Metric Tee Thread

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3067-1212S	M27 x 2	12	3.12	—	—	2.02	1.25
FJ3495-0808S	M20 x 1.5	8	2.71	—	—	1.68	0.94

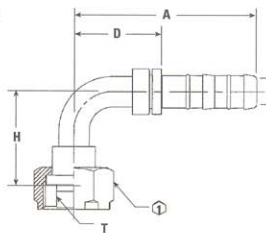
FJ3274



Straight - Female RotaLok

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3274-1010S	1-14	10	3.69	2.14	—	—	1.13

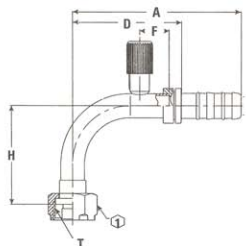
FJ3225



90° Female RotaLok

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3225-1010S	1-14	10	2.98	1.43	—	1.52	1.13

FJ3510

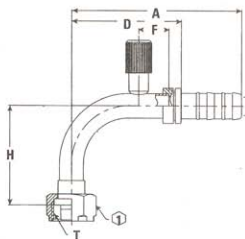


90° Female RotaLok with R134a Low Side Port

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3510-1012S	1-14	12	4.48	2.88	.79	2.58	1.13

E-Z Clip System™ Fittings

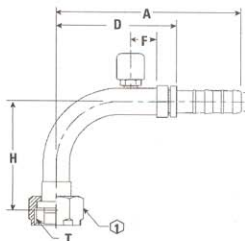
FJ3511



90° Female Rotalok with R134a High Side Port

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3511-1010S	1-14	10	4.43	2.88	.79	2.58	1.13

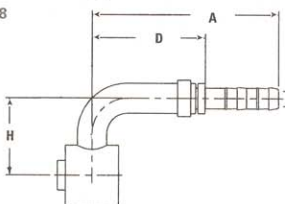
FJ3226



90° Female RotaLok with Switch Port (7/16-20 thread)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3226-1010S	1-14	10	4.43	2.88	0.63	2.56	1.13

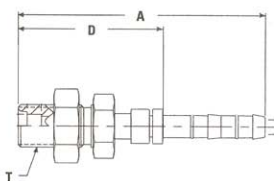
FJ3568



90° GM Block Style

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
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	—

FJ3513

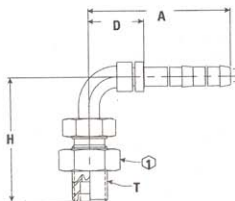


Straight Bulkhead

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	T
FJ3513-0606S	5/8-18	6	3.69	2.16	—	—	.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

E-Z Clip System™ Fittings

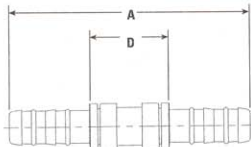
FJ3514



90° Male Bulkhead

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3514-0606S	5/8-18	6	2.50	.98	—	2.15	.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

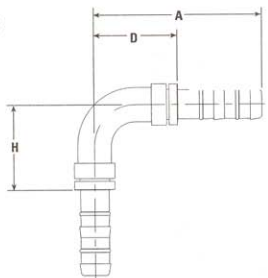
FJ3045



Straight Splicer

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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	—	—	—

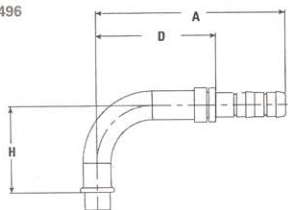
FJ3058



90° Splicer

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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	—

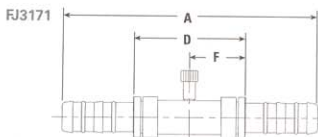
FJ3496



90° Pilot Connection (long pilot)

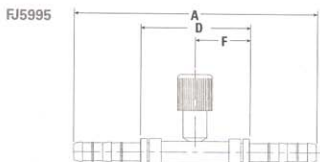
CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3496-01-1010S	—	10	4.22	2.67	—	1.89	—

E-Z Clip System™ Fittings



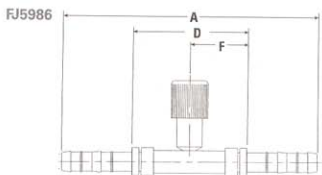
Splicer with SwitchPort 7/16-20Thd

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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	—	—



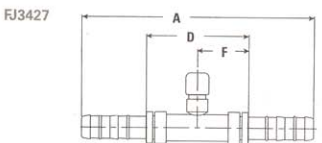
Splicer with High Side R134a Port

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
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	—	—



Splicer with R134a Low Side Port

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ5986-1010S	—	10	5.54	2.44	1.22	—	—
FJ5986-1212S	—	12	5.60	2.44	1.22	—	—

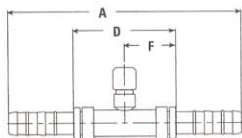


Splicer with High Side Switch Port (M10 X 1.25)

CATALOG NUMBER REF	TH'D "T"	HOSE SIZE	A REF	D REF	F REF	H REF	1
FJ3427-0808S	—	8	5.61	2.52	1.26	—	—
FJ3427-1010S	—	10	5.54	2.44	1.22	—	—

E-Z Clip System™ Fittings

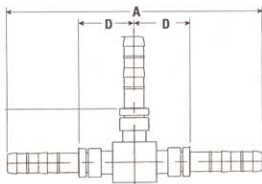
FJ3428



Splicer with Low Side Switch Port (M12 X 1.25)

CATALOG NUMBER REF	TH'D	HOSE "T"	A SIZE	D REF	F REF	H REF	I REF
FJ3428-1212S	—	12	5.59	2.44	1.22	—	—

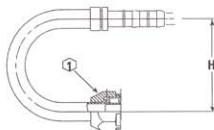
FJ3066



"T" Splicer - 3 Hose Connector

CATALOG NUMBER REF	TH'D	HOSE "T"	A SIZE	D REF	F REF	H REF	I 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	—	6 x 8 x 8	5.48	2.40	—	—	—

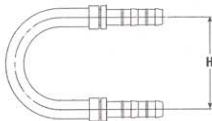
FJ3623



180° Female O-ring Pilot

CATALOG NUMBER REF	TH'D	HOSE "T"	A SIZE	D REF	F REF	H REF	I REF
FJ3623-0808S	M20 x 1.5	8	—	—	—	2.50	.94

FJ3624



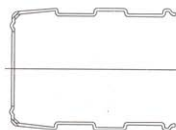
180° Splicer

CATALOG NUMBER REF	TH'D	HOSE "T"	A SIZE	D REF	F REF	H REF	I REF
FJ3624-0808S	—	8	—	—	—	2.50	—

E-Z Clip System™

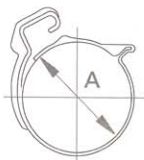
Cages, Clips and Lifesavers

Cages / Fitting to Hose Attachment



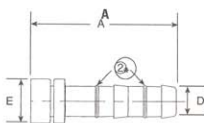
CATALOG NUMBER	CAGE SIZE	HOSE DESCRIPTION
1F40105-06C	-06	Cages for size -06 hose
1F40105-08C	-08	Cages for size -08 hose
1F40105-10C	-10	Cages for size -10 hose
1F40105-12C	-12	Cages for size -12 hose

Clips Hose / Cage Connection



CATALOG NUMBER	A REF	DESCRIPTION
1F40104-06C	18 mm	Clips for size -06 hose
1F40104-08C	20.5 mm	Clips for size -08 hose
1F40104-10C	23 mm	Clips for size -10 hose
1F40104-12C	27.5 mm	Clips for size -12 hose

Lifesaver Braze Nipple



CATALOG NUMBER REF	TH'D	HOSE "T"	A SIZE
FF12262-0606S	—	6	2.01
FF12262-0608S	—	8	2.02
FF12262-0808S	—	8	2.02
FF12262-0810S	—	10	2.03
FF12262-1010S	—	10	2.03
FF12262-1012S	—	12	2.06
FF12262-1212S	—	12	2.11

*O-rings packaged separately

E-Z Clip System™

Assembly Tools

Pliers / Connecting Tool



CATALOG NUMBER	DESCRIPTION
FT1357	Connecting Tool

Hose Cutter

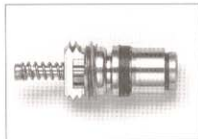


CATALOG NUMBER	DESCRIPTION
T-135	Plastic Tube and Hose Cutter
T-135B	Replacement Blade

Core Tools



FF90192-02



FF90192-01

CATALOG NUMBER	DESCRIPTION
R134a	High Side Core*
R134a	Low Side Core*
R134a	High Side Cap
R134a	Low Side Cap
FF9872-04	Cap for 7/16-20 Thd. port

*For Weatherhead high flow charge ports only.



FF90193-02, FF90193-01



FF9872-04

E-Z Clip Components

Ordering & Identifying



The E-Z Clip System is designed for assembly with Weatherhead GH134 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
- GH134 Multi-Refrigerant hose
- Nipple assembly*
- Appropriately sized clips and cage

*NOTE:

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

IDENTIFICATION GUIDE

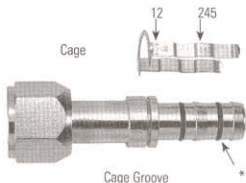
Hose	Cage	Clips	Nipple O-Ring*(HNBR)
GH134-6W	-6 and 150	150	1F40106-06
GH134-8W	-8 and 175	175	1F40106-08
GH134-10W	-10 and 200	200	1F40106-10
GH134-12W	-12 and 245	245	1F40106-12

* 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



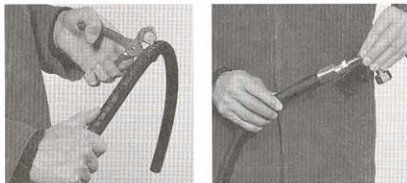
Clips

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 GH134 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 fitted 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.



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

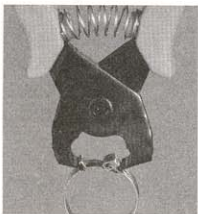
Step 7: Close the Clips

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.

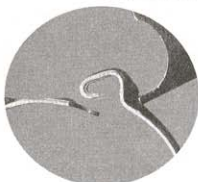
The nose of the pliers should be firmly seated under the assembly bump and lock latch.

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.



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



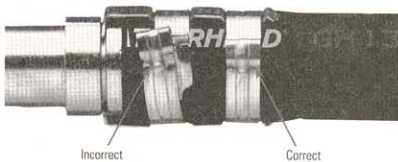
Correct



Incorrect

Notice

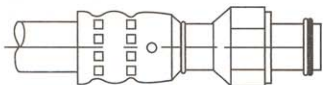
E-Z Clip components should not be reused.



CAUTION: Failure to follow these assembly instructions and/or the use of Weatherhead hose with fittings supplied by other manufacturers may result in unreliable and unsafe hose assemblies, which may result in sudden and 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.

Hose End 757 'E' Series



Refer to pages 31-66 or the Weatherhead Hose End and Tool Selector Chart for Qualified Sizes.

 Refer to important safety information on page 3.

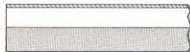
757 'E' Series Air Conditioning Procedure

The Coll-O-Crimp® system can be used to make original equipment assemblies using factory replacement ends as listed on pages 139-146. If the required hose end is not found, our Flareless hose end can be used. By following the instructions on this page, a new hose assembly can be made by combining Weatherhead's hose end with the original equipment end configuration.

- Typical original equipment assembly.
- Typical assembly of a Flareless hose end used with an old original equipment end configuration.
- Weatherhead replacement assemblies using original equipment tubing with Weatherhead 757 'E' Series hose ends.

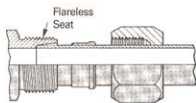
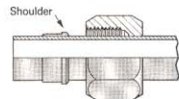
Preparation - Flareless Tube Assembly

1. Remove the bad tube assembly or if room permits, perform the cutting procedure in place. Cut the tube squarely and as close to the hose connection as possible. Allow an adequate straight area for the flareless nut and sleeve to move freely for installation purposes. Deburr the inside and outside diameters of the tubing.



Make Presetting Operation

1. Slide nut and then sleeve onto tube. Shoulder of sleeve must be toward nut.
2. Lubricate threads, seat in hose end and flareless sleeve with a good grade of lubricant. Insert tube into seat of hose end, making sure that tube is bottomed, **TIGHTEN HAND TIGHT** and then tighten an **ADDITIONAL 1 to 1-1/6 turns** with a wrench.



Note: Compensate for tubing being removed by adding to the over all length of the replacement hose assembly.

Typical Applications: Used with R134a and R12 applications. Ideal for heavy duty truck use as well as industrial and automotive applications.

Compatible Hose: H429; H757

Pressure: Determined by hose burst pressure. See page 14 for working pressure ratings for hose end configurations.

Material: Carbon steel

Plating: Black; zinc with rust preventive.

Advantages: Wide selection of hose ends which include the flareless ends, allowing use of existing tubing. Steel hose ends handle heavy duty demands.

Assemble With: T-400-1, T-410-1, T-420-1, T-440-1, T-460, T-462, T-465-1, T-475-1, T-480.

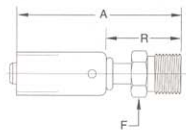
Ordering Information: Order individually by catalog number.

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

Label Set: FS-3200

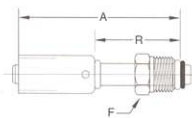
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly. All dimensions shown in inches.

Bumped Tube O-Ring Male Rigid



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	RUN R	HOSE CUT-OFF FACTOR†	HEX F
5/16	3/8	75706E-W06	5/8-18	2.94	1.54	1.63	5/8
13/32	1/2	75708E-W08	3/4-16	3.26	1.86	2.00	3/4
1/2	5/8	75710E-W10	7/8-14	3.35	1.95	2.13	7/8
5/8	5/8	75712E-W10	7/8-14	3.56	2.06	2.25	7/8
5/8	3/4	75712E-W12	1-1/16-14	3.56	2.06	2.25	1-1/16

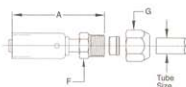
Bumped Tube O-Ring Male Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	RUN R	HOSE CUT-OFF FACTOR†	HEX F	O-RING
5/16	3/8	75706E-Z06	5/8-18	2.94	1.54	1.63	5/8	ZW74706
5/16	1/2	75708E-Z08	3/4-18	3.15	1.75	1.88	3/4	ZW74708
13/32	1/2	75708E-Z08	3/4-18	3.26	1.86	2.00	3/4	ZW74708
1/2	5/8	75710E-Z10	7/8-18	3.35	1.95	2.13	7/8	ZW74710
1/2	3/4	75710E-Z12	1-1/16-16	3.46	2.06	2.25	1-1/16	ZW74712
5/8	5/8	75712E-Z10	7/8-18	3.56	2.06	2.25	7/8	ZW74710
5/8	3/4	75712E-Z12	1-1/16-16	3.56	2.06	2.25	1-1/16	ZW74712

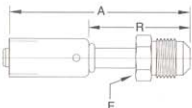
(Includes O-Ring)

Flareless Tube Rigid (With Nut and Sleeve)



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	HOSE CUT-OFF FACTOR†	HEX F	HEX G
5/16	3/8	75706E-756	5/8-18	2.59	1.38	5/8	3/4
5/16	1/2	75706E-758	3/4-16	2.71	1.50	3/4	7/8
13/32	3/8	75708E-756	5/8-18	2.65	1.38	5/8	3/4
13/32	1/2	75708E-758	3/4-16	2.78	1.50	3/4	7/8
13/32	5/8	75708E-760	7/8-14	2.90	1.63	7/8	1-1/16
1/2	1/2	75710E-758	3/4-16	2.84	1.63	3/4	7/8
1/2	5/8	75710E-760	7/8-14	2.90	1.63	7/8	1-1/16
5/8	5/8	75712E-760	7/8-14	3.13	1.75	7/8	1-1/16
5/8	3/4	75712E-762	1-1/16-14	3.25	1.88	1-1/16	1-1/4

SAE 45° Male Rigid

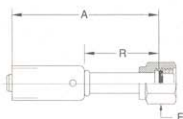


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	RUN R	HOSE CUT-OFF FACTOR†	HEX F
5/16	3/8	75706E-306	5/8-18	3.28	1.88	2.00	5/8
13/32	1/2	75708E-308	3/4-16	3.40	2.00	2.13	3/4
1/2	5/8	75710E-310	7/8-14	3.71	2.31	2.50	7/8
5/8	3/4	75712E-312	1-1/16-14	4.00	2.50	2.75	1-1/16

†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly. All dimensions shown in inches.

*High Side Port
**Low Side Port

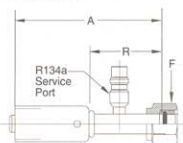
Bumped Tube O-Ring Female Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	RUN R	HOSE CUT-OFF FACTOR†	HEX F	O-RING
5/16	3/8	75706E-Z47	5/8-18	2.78	1.38	1.50	3/4	ZW74706
5/16	1/2	75706E-Z49	3/4-16	2.90	1.50	1.63	7/8	ZW74708
13/32	1/2	75708E-Z49	3/4-16	3.06	1.66	1.75	7/8	ZW74708
13/32	5/8	75708E-Z51	7/8-14	3.09	1.69	1.88	1-1/16	ZW74710
1/2	5/8	75710E-Z51	7/8-14	3.09	1.69	1.88	1-1/16	ZW74710
1/2	3/4	75710E-Z53	1-1/16-14	3.21	1.81	2.00	1-1/4	ZW74712
5/8	5/8	75712E-Z51	7/8-14	3.31	1.81	2.00	1-1/16	ZW74710
5/8	3/4	75712E-Z53	1-1/16-14	3.31	1.81	2.00	1-1/4	ZW74712

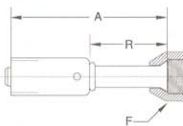
(Includes O-Ring)

Bumped Tube O-Ring Female Swivel W/R134a Service Port



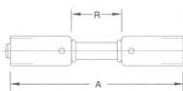
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	RUN R	HOSE CUT-OFF FACTOR†	HEX F	O-RING
5/16	3/8	75706E-Z57*	5/8-18	4.28	1.88	3.00	3/4	ZW74706
13/32	1/2	75708E-Z59*	3/4-16	4.28	1.88	3.00	7/8	ZW74708
1/2	5/8	75710E-Z61**	7/8-14	4.52	2.12	3.25	1-1/16	ZW74710
5/8	5/8	75712E-Z61**	7/8-14	4.62	3.05	3.25	1-1/16	ZW74710

SAE 45° Flare Female Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	RUN R	HOSE CUT-OFF FACTOR†	HEX F
5/16	3/8	75706E-406	5/8-18	2.78	1.38	1.50	3/4
5/16	1/2	75706E-408	3/4-16	2.90	1.50	1.75	7/8
13/32	1/2	75708E-408	3/4-16	2.84	1.44	1.56	7/8
1/2	5/8	75710E-410	7/8-14	3.09	1.69	1.81	1-1/16
5/8	5/8	75712E-410	7/8-14	3.25	1.75	2.00	1-1/16
5/8	3/4	75712E-412	1-1/16-14	3.25	1.75	2.00	1-1/4

Hose Splicer

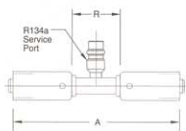


HOSE I.D.	HOSE I.D.	CATALOG NUMBER	LENGTH A	RUN R	HOSE CUT-OFF FACTOR†
5/16	5/16	75706E-Y36	4.30	1.50	1.50
5/16	13/32	75706E-Y38	4.30	1.50	1.50
13/32	13/32	75708E-Y38	4.30	1.50	1.50
13/32	1/2	75708E-Y40	4.43	1.63	1.63
1/2	1/2	75710E-Y40	4.43	1.63	1.63
1/2	5/8	75710E-Y41	4.65	1.75	1.75
5/8	5/8	75712E-Y41	4.75	1.75	1.75

For crimping information see page 323-328.

†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of the assembly. All dimensions shown in inches.

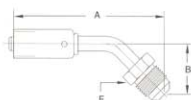
Hose Splicer W/R134a Service Port



HOSE I.D.	HOSE I.D.	CATALOG NUMBER	LENGTH A	RUN A	HOSE CUT-OFF FACTOR†
5/16	5/16	75706E-Y47*	5.42	2.62	1.50
13/32	13/32	75708E-Y48*	5.42	2.62	1.50
1/2	1/2	75710E-Y49**	5.42	2.62	1.63
5/8	5/8	75712E-Y50**	5.62	2.62	1.75

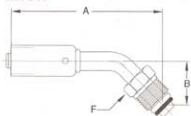
For crimping information see page 328)

SAE 45° Flare Male Rigid 45° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	DROP B	HOSE CUT-OFF FACTOR†	HEX F
13/32	1/2	75708E-388	3/4-16	3.65	1.25	2.50	3/4
1/2	5/8	75710E-390	7/8-14	4.21	1.56	3.00	7/8

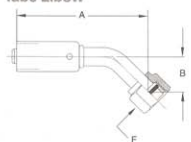
Bumped Tube O-Ring Male Swivel 45° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	DROP B	HOSE CUT-OFF FACTOR†	HEX F	O-RING
5/16	3/8	75706E-Z26	5/8-18	3.09	.88	1.88	5/8	ZW74706
13/32	1/2	75708E-Z28	3/4-18	3.59	1.03	2.38	3/4	ZW74708
1/2	5/8	75710E-Z30	7/8-18	3.71	1.06	2.50	7/8	ZW74710
5/8	5/8	75712E-Z30	7/8-18	4.19	1.19	2.88	7/8	ZW74710
5/8	3/4	75712E-Z32	1-1/16-16	4.19	1.19	2.88	1-1/16	ZW74712

(Includes O-Ring)

Bumped Tube O-Ring Female Swivel 45° Tube Elbow

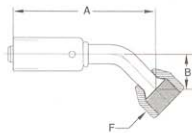


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	DROP B	HOSE CUT-OFF FACTOR†	HEX F	O-RING
5/16	3/8	75706E-W47	5/8-18	3.51	.68	2.25	3/4	ZW74706
13/32	1/2	75708E-W49	3/4-16	3.63	1.05	2.25	7/8	ZW74708
1/2	5/8	75710E-W51	7/8-14	3.65	1.19	2.50	1-1/16	ZW74710
5/8	5/8	75712E-W51	7/8-14	4.00	1.29	2.75	1-1/16	ZW74710
5/8	3/4	75712E-W53	1-1/16-14	3.84	.94	2.50	1-1/4	ZW74712

(Includes O-Ring)

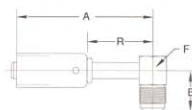
† To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of the assembly. All dimensions shown in inches.

SAE 45° Flare Female Swivel 45° Tube Elbow



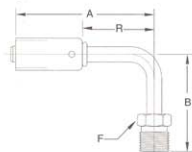
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	DROP B	HOSE CUT-OFF FACTOR†	HEX F
5/16	3/8	75706E-486	5/8-18	3.42	.55	2.00	3/4
13/32	1/2	75708E-488	3/4-16	3.72	.58	2.50	7/8
1/2	5/8	75710E-490	7/8-14	4.34	.72	3.00	1-1/16
5/8	5/8	75712E-490	7/8-14	5.00	1.00	3.50	1-1/16
5/8	3/4	75712E-492	1-1/16-14	4.44	.72	3.00	1-1/4

SAE 45° Male Rigid 90° Elbow



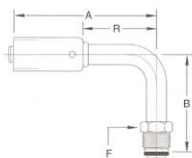
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	RUN R	DROP B	HOSE CUT-OFF FACTOR†	HEX/SQUARE F
5/16	3/8	75706E-X06	5/8-18	4.07	2.67	.91	3.00	5/8
13/32	1/2	75708E-X08	3/4-16	4.14	2.74	1.47	3.00	7/8
1/2	5/8	75710E-X10	7/8-14	4.25	2.85	1.47	3.00	7/8
5/8	3/4	75712E-X12	1-1/16-14	4.45	2.95	1.56	3.00	1-1/16

Bumped Tube O-Ring Male Rigid 90° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	RUN R	DROP B	HOSE CUT-OFF FACTOR†	HEX F
5/16	3/8	75706E-W66	5/8-18	4.00	2.60	1.53	2.75	5/8
13/32	1/2	75708E-W68	3/4-16	4.07	2.67	2.12	2.75	3/4
1/2	5/8	75710E-W70	7/8-14	4.15	2.75	2.21	2.88	7/8

Bumped Tube O-Ring Male Swivel 90° Tube Elbow



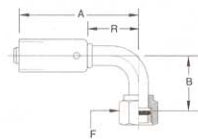
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	RUN R	DROP B	HOSE CUT-OFF FACTOR†	HEX F	O-RING
5/16	3/8	75706E-Z66	5/8-18	4.00	2.60	1.53	2.75	5/8	ZW74706
5/16	1/2	75706E-Z68	3/4-18	4.07	2.67	1.53	2.75	3/4	ZW74708
13/32	3/8	75708E-Z66	5/8-18	4.00	2.60	1.77	2.75	5/8	ZW74706
13/32	1/2	75708E-Z68	3/4-18	4.07	2.67	2.12	2.75	3/4	ZW74708
1/2	5/8	75710E-Z70	7/8-18	4.15	2.75	2.21	2.88	7/8	ZW74710
1/2	3/4	75710E-Z72	1-1/16-16	4.25	2.85	2.35	3.00	1-1/16	ZW74712
5/8	5/8	75712E-Z70	7/8-18	4.24	2.74	2.25	2.88	7/8	ZW74710
5/8	3/4	75712E-Z72	1-1/16-16	4.35	2.85	2.87	3.00	1-1/16	ZW74712

(Includes O-Ring)

† To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of the assembly. All dimensions shown in inches.

*High Side Port
**Low Side Port
† Has body machined from hexstock.

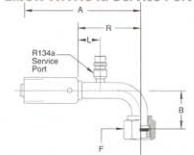
Bumped Tube O-Ring Female Swivel 90° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	RUN R	DROP B	HOSE CUT-OFF FACTOR†	HEX F	O-RING
5/16	3/8	75706E-Z87	5/8-18	4.07	2.67	1.12	2.75	3/4	ZW74706
5/16	1/2	75706E-Z89	3/4-16	4.14	2.74	1.31	2.88	7/8	ZW74708
13/32	3/8	75708E-Z87	5/8-18	4.07	2.67	1.31	2.75	3/4	ZW74706
13/32	1/2	75708E-Z89	3/4-16	4.14	2.74	1.50	2.88	7/8	ZW74708
1/2	5/8	75710E-Z91	7/8-14	4.25	2.85	1.75	3.00	1-1/16	ZW74710
5/8	5/8	75712E-Z91	7/8-14	4.35	2.85	1.75	3.00	1-1/16	ZW74710
5/8	3/4	75712E-Z93	1-1/16-14	4.45	2.95	1.75	3.13	1-1/4	ZW74712

(Includes O-Ring)

Bumped Tube O-Ring Female Swivel 90° Tube Elbow W/R134a Service Port

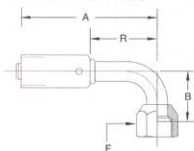


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	A	THREAD SIZE	RUN R	DROP B	HOSE CUT-OFF FACTOR†	HEX F	LENGTH L	O-RING
5/16	3/8	75706E-Z97*	2.52	5/8-18	2.12	1.12	2.75	3/4	1.50	ZW74706
13/32	1/2	75708E-Z99*	4.15	3/4-16	2.75	1.68	2.88	7/8	1.50	ZW74708
1/2	5/8	75710E-Z01**	3.78	7/8-14	2.38	1.50	3.00	1-1/16	1.50	ZW74710
5/8	5/8	75712E-Z01**	4.61	7/8-14	3.11	1.95	3.00	1-1/16	1.50	ZW74710

(Includes O-Ring)

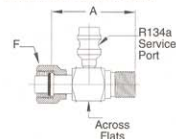
For crimping information see page 328.

SAE 45° Flare Female Swivel 90° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	A	THREAD SIZE	RUN R	DROP B	HOSE CUT-OFF FACTOR†	HEX F
5/16	3/8	75706E-466	4.07	5/8-18	2.67	1.12	2.75	3/4
13/32	1/2	75708E-468	4.14	3/4-16	2.74	1.31	2.88	7/8
1/2	5/8	75710E-470	4.25	7/8-14	2.85	1.56	3.00	1-1/16
5/8	5/8	75712E-470	4.35	7/8-14	2.85	1.50	3.00	1-1/16
5/8	3/4	75712E-472	4.45	1-1/16-14	2.95	1.75	3.13	1-1/4

Bumped Tube O-Ring Service Port Adapter W/R134a Service Port



TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	ACROSS FLATS	HEX F	O-RING
3/8	75701*	5/8-18	2.02	5/8†	3/4	ZW74706
1/2	75702*	3/4-16	2.22	7/8	7/8	ZW74708
5/8	75704**	7/8-14	2.63	7/8	1-1/16	ZW74710
3/4	75706**	1-1/16-14	2.89	1-1/16	1-1/4	ZW74712

(Includes O-Ring)

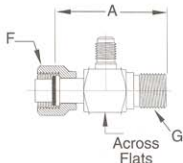
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of the assembly. All dimensions shown in inches.

*High Side Port

**Low Side Port

†Has body machined from hex stock.

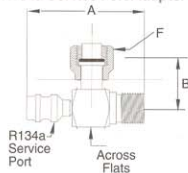
Bumped Tube O-Ring Service Port Adapter W/R12 Service Port



TUBE SIZE	CATALOG NUMBER	THREAD SIZE G	LENGTH A	ACROSS FLATS	HEX F	SERVICE PORT THREAD	O-RING
3/8	R12-Z56*	5/8-18	2.02	5/8 [†]	3/4	3/8-24	ZW74706
1/2	R12-Z58*	3/4-16	2.22	7/8	7/8	3/8-24	ZW74708
5/8	R12-Z60**	7/8-14	2.63	7/8	1-1/16	3/8-24	ZW74710
3/4	R12-Z62**	1-1/16-14	2.89	1-1/16	1-1/4	7/16-20	ZW74712

(Includes O-Ring)

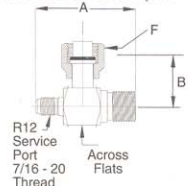
90° Bumped Tube O-Ring R134a Service Port Adapter



TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	DROP B	ACROSS FLATS	HEX F	O-RING
3/8	75729*	5/8-18	2.40	1.05	5/8 [†]	3/4	ZW74706
1/2	75730*	3/4-16	2.60	1.15	7/8	7/8	ZW74708
5/8	75731**	7/8-14	2.74	1.30	7/8	1-1/16	ZW74710
3/4	75732**	1-1/16-14	3.10	1.39	1-1/16 [†]	1-1/4	ZW74712

(Includes O-Ring)

90° Bumped Tube O-Ring R12 Service Port Adapter



TUBE SIZE	CATALOG NUMBER	THREAD SIZE	LENGTH A	DROP B	ACROSS FLATS	HEX F	O-RING
3/8	R12-Z96*	5/8-18	2.07	1.05	5/8 [†]	3/4	ZW74706
1/2	R12-Z97*	3/4-16	2.27	1.15	7/8	7/8	ZW74708
5/8	R12-Z98**	7/8-14	2.41	1.30	7/8	1-1/16	ZW74710
3/4	R12-Z99**	1-1/16-16	2.77	1.39	1-1/16 [†]	1-1/4	ZW74712

(Includes O-Ring)

Note: 3/8-24 Thread (High Side Port)

7/16-20 Thread (Low Side Port)

Replacement O-Rings



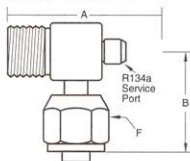
TUBE O.D.	CATALOG NUMBER
3/8	ZW74706
1/2	ZW74708
5/8	ZW74710
3/4	ZW74712

Material: Hydrogenated Nitrile (HNBR), 70 Durometer

Temperature Range: -40°F to +250°F (-40°C to +121°C)

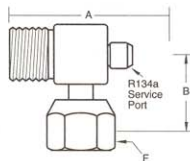
Color: Green

**Tube-O to Male Bumped
Tube O-Ring 90° Elbow
with R134a Service**



TUBE SIZE	CATALOG NUMBER	LENGTH A	DROP B	TUBE-O THREAD
1/2	75750	2.64	1.15	3/4-16
5/8	75751	2.78	1.29	7/8-14

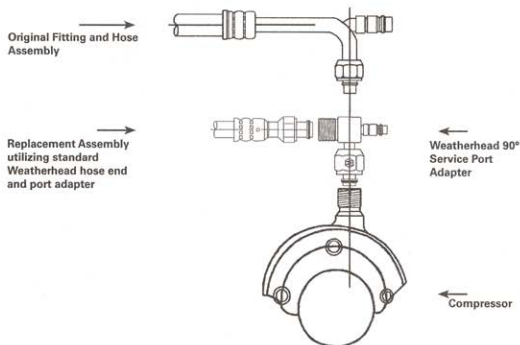
**Rotalok to Male Bumped
Tube O-Ring 90° Elbow
with R134a Service**



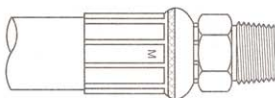
TUBE SIZE	CATALOG NUMBER	LENGTH A	DROP B	ROTALOK THREAD F
1/2	75760	2.64	1.15	1-14
5/8	75761	2.78	1.29	1-14

**Service Instructions for
Replacement of Damaged
O.E. Hose Assemblies**

Weatherhead service port adapters offer an alternative to the high cost of replacement and time out of service which can occur when an air conditioning assembly is damaged. By using the Weatherhead adapter, service personnel can remove the damaged end and replace it with a standard Weatherhead 757 'E' series hose end used in conjunction with a Weatherhead service port adapter. This is a welcome solution to get your customer back on the road without special orders and long delays.



Hose End 'M' Series



Refer to pages 31-66 or the Weatherhead Hose End and Tool Selector Chart for Qualified Sizes.

Refer to important safety information on page 3.

Typical Application: Very high pressure hydraulic lines subjected to pressure surges and flexing. Some applications include mining, construction, farming, and high performance industrial equipment.

Compatible Hose: H145; H245; H345; H350; H400; H545

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See page 14 for working pressure ratings for hose end configurations.

Material: Low Carbon Steel

Plating: Zinc; yellow dichromate finish

Advantages: Wide selection of hose and end configurations allowing a diverse number of applications. An ideal series to introduce hydraulics.

Assemble With: T-400-1, T-410-1, T-420-1, T-440-1, T-460, T-462, T-465-1, T-480.

Ordering Information: Order individually by catalog number.

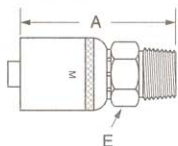
Note: Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

Label Set: 3400

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

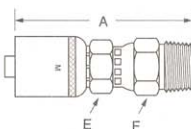
*10M-XXX hose ends can only be crimped on T-410-1, T-420-1, T-440-1 and T-480 C-O-C presses.

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR [†]	HOLE DIA.	HEX E
1/4	1/4	04M-104	1/4-18	2.26	1.00	.16	9/16
3/8	3/8	06M-106	3/8-18	2.38	1.06	.25	11/16
1/2	1/2	08M-108	1/2-14	2.60	1.31	.36	13/16
5/8	1/2	10M-108*	1/2-14	3.09	1.38	.48	15/16
5/8	3/4	10M-112*	3/4-14	3.09	1.38	.48	1-1/16

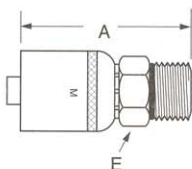
Male Pipe Swivel



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR [†]	HOLE DIA.	HEX E	HEX F
1/4	1/4	04M-J04	1/4-18	3.15	1.88	.16	5/8	13/16
3/8	3/8	06M-J06	3/8-18	3.25	1.94	.25	11/16	7/8
1/2	1/2	08M-J08	1/2-14	3.46	2.19	.36	13/16	7/8

Note: Swivel for installation purposes only. (Not for temperatures above 212°F)

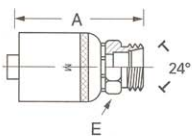
**Male Straight Thread
 O-Ring Rigid**



HOSE I.D.	PORT SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
5/8	5/8	10M-P10*	7/8-14	2.84	1.13	.48	1
5/8	3/4	10M-P12*	1-1/16-12	2.93	1.25	.48	1-1/4

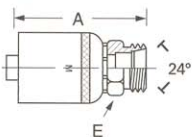
Includes O-ring.
 (For replacement O-ring, see page 254.)

**Male DIN Universal Seat l.
 Rh. (Light)**



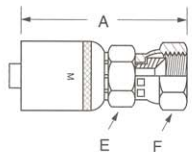
HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
5/8	18	10M-18A	M26x1.5	2.82	1.13	.48	1-1/16

**Male DIN 24° Seat s. Rh.
 (Heavy)**



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
5/8	20	10M-20F	M30x2	2.99	1.28	.48	1-1/4

**JIC 37° Female Swivel
 (Refer to Footnotes)**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04M-604 ^a	7/16-20	2.38	1.13	.16	9/16	9/16
3/8	3/8	06M-606	9/16-18	2.63	1.31	.25	11/16	11/16
3/8	1/2	06M-608 ^a	3/4-16	2.73	1.44	.25	11/16	7/8
1/2	1/2	08M-608 ^a	3/4-16	2.64	1.38	.36	13/16	7/8
5/8	5/8	10M-610 ^{a*}	7/8-14	3.31	1.63	.48	15/16	1
5/8	3/4	10M-612 [*]	1-1/16-12	3.42	1.75	.48	1-1/8	1-1/4

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

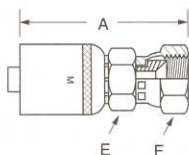
*10M-XXX hose ends can only be crimped on T-410-1, T-420-1, T-440-1 and T-480 C-O-C presses.

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

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

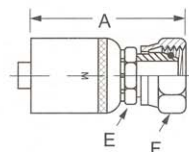
*10M-XXX hose ends can only be crimped on T-410-1, T-420-1, T-440-1 and T-480 C-O-C presses.

**Female Swivel DIN
Universal Seat
I.Rh (Light) (DIN 3901/3902)**



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/8	18	10M-18C	M26x1.5	3.39	1.68	.48	15/16	1-1/4

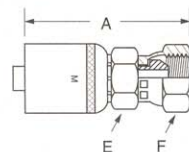
**Female Swivel DIN 24° Seat
s.Rh/ DKO (Heavy)**



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/8	20	10M-70C	M30x2	3.53	1.82	.48	1-1/8	1-7/16

(Includes o-ring.)

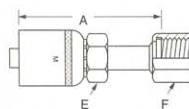
**Female Straight Pipe
Swivel**



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	NPSM THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04M-054	1/4-18	2.32	1.06	.16	1/2	11/16
3/8	3/8	06M-056	3/8-18	2.49	1.19	.25	11/16	7/8
1/2	1/2	08M-058	1/2-14	2.71	1.44	.36	13/16	1
5/8	1/2	10M-058	1/2-14	3.24	1.56	.45	15/16	1
5/8	3/4	10M-062	3/4-14	3.45	1.75	.48	1	1-1/4

Note: Connects to male pipe fittings with internal seat.

**Female FOR-SEAL Swivel
Straight**



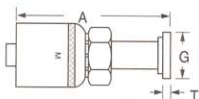
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/8	5/8	10M-S70*	1-14	3.54	1.81	.48	15/16	1-1/8
5/8	3/4	10M-S72*	1-3/16-12	3.62	1.94	.48	1	1-3/8

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

*10M-XXX hose ends can only be crimped on T-410-1, T-420-1, T-440-1 and T-480 C-O-C presses.

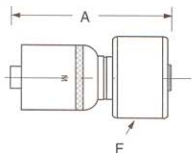
Split Flange Straight Metric
 (Komatsu, Linkbelt etc.)

HOSE I.D.	TUBE SIZE	CATALOG NUMBER	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	DIA. G	T
5/8	16mm (5/8)	10M-G09	3.96	2.25	.46	.94	34mm (1.33)	.265



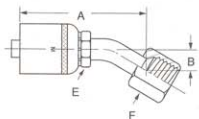
Pressure Washer

HOSE I.D.	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. F
1/4	04M-6PW	M22x1.5	2.40	1.12	.16	1-3/8
3/8	06M-6PW	M22x1.5	2.49	1.19	.25	1-3/8



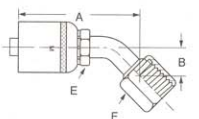
JIC 37° Female Swivel 30° Tube Elbow

HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/8	3/4	10M-L22*	1-1/16-12	4.28	.46	2.56	.48	15/16	1-1/4



Female FOR-SEAL Swivel 45° Tube Elbow

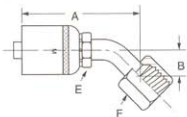
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/8	5/8	10M-L70*	1-14	3.86	.68	2.19	.48	15/16	1-1/8
5/8	3/4	10M-L72*	1-3/16-12	4.31	.84	2.63	.48	15/16	1-3/8



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

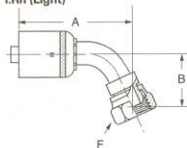
*10M-XXX hose ends can only be crimped on T-410-1, T-420-1, T-440-1 and T-480 C-O-C presses.

**JIC 37° Female Swivel 45°
 Tube Elbow**



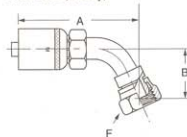
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/8	3/4	10M-692	1-1/16-12	4.15	.78	2.44	.48	15/16	1-1/4

**Female Swivel DIN
 Universal 45° Elbow
 I.Rh (Light)**



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/8	18	10M-18D	M26x1.5	4.28	1.12	2.57	.46	15/16	1-1/4

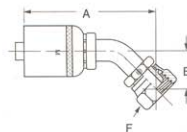
**Female Swivel DIN 24°
 Seat 45° Tube Elbow
 s.Rh. DKO (Heavy)**



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/8	20	10M-20E	M30x2	4.21	1.05	2.50	.46	15/16	17/16

(Includes o-ring.)

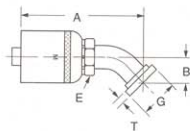
**British Standard 60° Cone
 (BSPP) Female Swivel 45°
 Tube Elbow**



HOSE I.D.	BSPP TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
5/8	5/8	10M-50P*	G-5/8-14#	3.51	.74	1.81	.48	1-1/8

#G As part of thread size is ISO designation for Parallel thread.

Split Flange 45° Tube Elbow
 (Komatsu, Linkbelt, etc.)

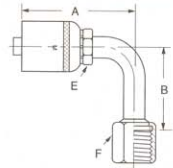


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	O-RING	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
5/8	16mm (5/8)	10M-G69*	10x252	3.78	.94	2.06	.48	11.335 (34mm)	.265

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

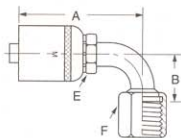
*10M-XXX hose ends can only be crimped on T-410-1, T-420-1, T-440-1 and T-480 C-O-C presses.

Female FOR-SEAL Swivel Long Drop 90° Tube Elbow



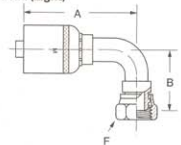
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/8	5/8	10M-A70*	1-14	3.70	2.76	2.00	.48	15/16	1-1/8

Female FOR-SEAL Swivel Short Drop 90° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
5/8	5/8	10M-A30*	1-14	3.70	1.27	2	.48	15/16	1-1/8
5/8	3/4	10M-A32*	1-3/16-12	4.15	1.88	2.44	.48	15/16	1-3/8

Female Swivel Universal Seat DIN 90° Tube Elbow I. Rh. (Light)



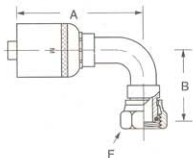
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
5/8	18mm	10M-68D*	M26x1.5	4.18	2.28	2.50	.48	1-5/16

†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.

*10M-XXX hose ends can only be crimped on T-410-1, T-420-1, T-440-1 and T-480 C-O-C presses.

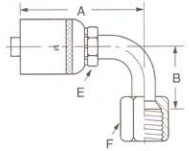
Female 24° Swivel DIN
 Seat 90° Tube Elbow
 s. Rh. DKO (Heavy)



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR [†]	HOLE DIA.	HEX F
5/8	20mm	10M-70E*	M30x2.0	4.24	2.47	2.50	.48	1-1/2

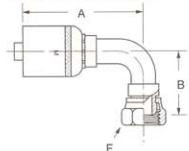
O-ring included.

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



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR [†]	HOLE DIA.	HEX E	HEX F
5/8	5/8	10M-670 ^a *	7/8-14	4.14	1.23	2.44	.48	15/16	1
5/8	3/4	10M-672*	1-1/16-12	4.74	1.82	3.00	.48	15/16	1-1/4

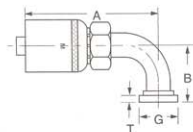
British Standard (BSPP)
 60° Cone Female Pipe
 Swivel 90° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR [†]	HOLE DIA.	HEX F
5/8	5/8	10M-80P*	G-5/8-14#	3.93	1.60	2.25	.48	1-1/8

#G As part of thread size is ISO designation for Parallel thread.

Split Flange 90° Tube Elbow
 (Komatsu, Linkbelt etc.)

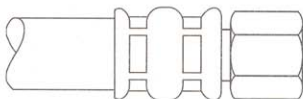


HOSE I.D.	NOMINAL FLANGE SIZE MM (INCHES)	CATALOG NUMBER	A	B	HOSE CUT-OFF FACTOR [†]	HOLE DIA.	HEX E	DIA. G	T
5/8	16mm	10M-G99	4.04	2.10	2.33	.46	15/16	34mm	.265
	(5/8)							(1.33)	

COLL-CRIMP

057 'P' Series

Hose End 057 'P' Series



Refer to pages 31-66 or the Weatherhead Hose End and Tool Selector Chart for Qualified Sizes.

 Refer to important safety information on page 3 of this catalog.

Typical Application: High pressure truck hose for use in transmission oil cooler lines, fuel lines and diesel fuel lines.

Compatible Hose: H429

Pressure: Determined by hose burst pressure. See page 14 for working pressure ratings for hose end configurations.

Material: CA 360 Brass

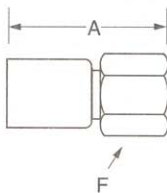
Advantages: For use with hot oil and high temperature petroleum oils.

Assemble With: T-400-1, T-410-1, T-420-1, T-440-1, T-460, T-462, T-465-1, T-480

Ordering Information: Order individually by catalog number.

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

SAE 45° Female Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR [†]	HOLE DIA.	HEX F
1/2	1/2	05708P-408	7/8-14	1.96	.99	.34	7/8
5/8	5/8	05710P-410	3/7-16	1.08	1.10	.44	1

COLL-O-CRIMP®

229 'P' Series

Hose End 229 'P' Series

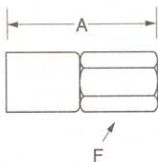


Refer to pages 31-66 or the Weatherhead Hose End and Tool Selector Chart for Qualified Sizes.

Refer to important safety information on page 3 of this catalog.

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

SAE 45° Flare Female Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/16	1/4	22904P-404	7/16-20	1.69	.75	.13	9/16
5/16	3/8	22906P-406	5/8-18	1.80	.81	.25	3/4
13/32	1/2	22908P-408	3/4-16	1.96	1.00	.34	7/8
1/2	5/8	22910P-410	7/8-14	2.08	1.12	.44	1

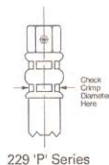
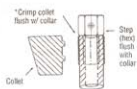
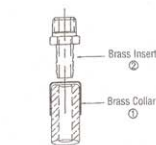
Note: Collar is not attached to insert.

Componentry for 229 'P' & 265 'P' Series Hose Ends

1. Brass Collar
2. Brass Insert, Female SAE 45° Swivel (229 'P'), Male Pipe or Female Pipe (265 'P').

Assembly Instructions for 229 'P' & 265 'P' Series Hose Ends

1. Push collar onto hose until bottomed.
2. Push insert into hose until step on insert (or hex) is flush with collar.
3. Check for bottoming by checking collar movement along insert. Hose is bottomed when collar cannot slide along insert.
4. Position top of collar so that it is flush with the top of the collet. Follow recommended Coll-O-Crimp® operating procedures found in the back of this catalog.



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

Hose End 265 P Series



Refer to pages 31-66 or the Weatherhead Hose End and Tool Selector Chart for Qualified Sizes.

Note: For Assembly Instructions see page 155.

⚠ Refer to important safety information on page 1 of this catalog.

Typical Application: General purpose low- pressure air and water lines.

Compatible Hose: H265; H275; H285; H338

Pressure: Determined by maximum working pressure for hose size.

Material: CA360 Brass

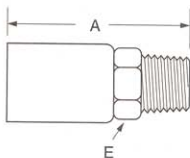
Advantages: One piece construction, easy to assemble, corrosion resistant.

Assemble With: T-400-1, T-410-1, T-420-1, T-440-1, T-460, T-462, T-465-1, T-480.

Ordering Information: Order individually by catalog number. To order replacement collar only, use base number followed by "COO" suffix. (Example: 26504P-COO)

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

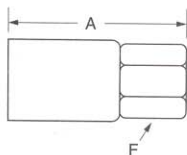
Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/8	26504P-102	1/8-27	1.56	.56	.18	7/16
1/4	1/4	26504P-104	1/4-18	1.63	.63	.18	9/16
1/4	3/8	26504P-106	3/8-18	1.75	.75	.18	11/16
3/8	1/8	26506P-102	1/8-27	1.56	.56	.25	7/16
3/8	1/4	26506P-104	1/4-18	1.75	.75	.31	9/16
3/8	3/8	26506P-106	3/8-18	1.74	.75	.28	11/16
3/8	1/2	26506P-108	1/2-14	1.94	1.00	.28	7/8
1/2	1/4	26508P-104	1/4-18	1.73	.75	.37	9/16
1/2	3/8	26508P-106	3/8-18	1.71	.75	.37	11/16
1/2	1/2	26508P-108	1/2-14	1.94	1.00	.37	7/8
1/2	3/4	26508P-112	3/4-18	1.94	1.00	.37	1-1/8
3/4	1/2	26512P-108	1/2-14	1.94	1.00	.37	1-1/8
3/4	3/4	26512P-112	3/4-14	1.92	1.00	.56	1-1/8

Note: Collar is not attached to insert.

Female Pipe Rigid



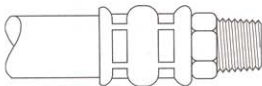
HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/8	26504P-202	1/8-27	1.49	.50	.18	9/16
1/4	1/4	26504P-204	1/4-18	1.60	.63	.18	11/16
3/8	1/8	26506P-202	1/8-27	1.49	.50	.28	9/16
3/8	1/4	26506P-204	1/4-18	1.60	.63	.28	11/16
3/8	3/8	26506P-206	3/8-18	1.66	.69	.28	13/16
1/2	1/4	26508P-204	1/4-18	1.57	.63	.37	11/16
1/2	3/8	26508P-206	3/8-18	1.63	.69	.37	13/16
1/2	1/2	26508P-208	1/2-14	1.85	.88	.37	1

Note: Collar is not attached to insert.

COLL-O-CRIMP

338 'P' Series

Hose End 338 P Series



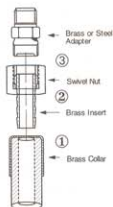
Refer to pages 31-66 or the Weatherhead Hose End and Tool Selector Chart for Qualified Sizes.

Note: See page 374 for important hose labeling information.

 Refer to important safety information on page 1 of this catalog.

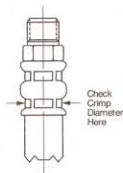
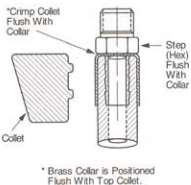
Componentry

1. Brass Collar
2. Brass Insert, Male pipe or brass swivel insert with brass SAE nut.
3. Brass A.B.S. insert with steel A.B.S. swivel nut.



Assembly Instructions

1. Push collar onto hose until bottomed.
2. Push insert into hose until step on insert (or hex) is flush with collar.



Note: Swivel fittings require the use of a mandrel or an assembled adapter to push on the insert for assembly. Adapter can be removed after fitting assembly. Light lubricant may be required to assemble fitting into hose.

3. Check for bottoming by checking collar movement along insert. Hose is bottomed when collar cannot slide along insert.
4. Depending on Coll-O-Crimp system, follow recommended operating procedures.

Typical Application: Air brake hose lines

Compatible Hose: H338

Pressure: Determined by hose burst pressure. See page 14 for working pressure ratings for hose end configurations.

Material: CA360 Brass

Advantages: A permanent hose end saves time and is easy to assemble. Brass material offers excellent resistance against corrosion.

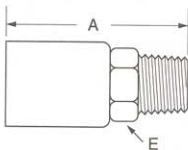
Assemble With: T-400-1, T-410-1, T-420-1, T-440-1, T-460, T-462, T-465, T-480. (For Field Attachable Ends refer to pages 177-179.)

Ordering Information: Order individually by catalog number.

Label Set: FS-2900

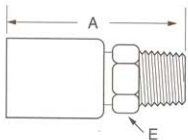
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
3/8	1/4	33806P-104	1/4-18	1.71	.75	.28	9/16
3/8	3/8	33806P-106	3/8-18	1.72	.81	.28	11/16
3/8	1/2	33806P-108	1/2-14	1.95	1.00	.28	7/8
1/2	3/8	33808P-106	3/8-18	1.73	.81	.38	11/16
1/2	1/2	33808P-108	1/2-14	1.94	1.00	.38	7/8

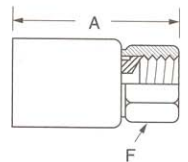
Male Pipe Swivel



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
3/8	3/8	33806P-J06	3/8-18	1.66	.81	.28	11/16

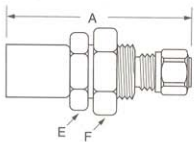
Note: Swivel for installation purposes only.

SAE 45° Female Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/8	3/8	33806P-406	5/8-18	1.31	1.00	.28	3/4
1/2	1/2	33808P-408	3/4-16	1.36	1.00	.38	7/8

Air Brake Slider Line



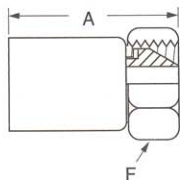
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/8	3/8	33806P-Y66	17/32-24	2.41	1.00	.28	1-1/16	1-1/8
3/8	1/2	33806P-Y68	11/16-20	2.51	1.00	.28	1-1/16	1-1/8
1/2	1/2	33808P-Y68	11/16-20	2.69	1.28	.41	7/8	13/16

COLL·CRIMP

338 'P' Series

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

Air Brake Swivel



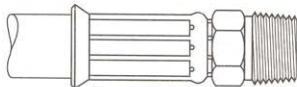
HOSE I.D.	ABS SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/8	3/8	33806P-Y76	3/4-20	1.38	1.00	.28	3/4
1/2	3/8	33808P-Y76	3/4-20	1.38	1.00	.28	3/4
1/2	1/2	33808P-Y78	7/8-20	1.44	1.00	.38	1

Adapter



ABS THREAD SIZE	PIPE SIZE	CATALOG NUMBER	OVERALL LENGTH	ABS THREAD SIZE
3/8	1/4	1390x6	1.18	3/4-20
3/8	3/8	1390x6x6	1.18	3/4-20
3/8	1/2	1390x6x8	1.37	3/4-20
1/2	3/8	1390x8	1.18	7/8-20
1/2	1/2	1390x8x8	1.37	7/8-20

Hose End 'S' Series
(Stainless Steel)



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

Typical Application: Low, medium, and high pressure hydraulic applications calling for corrosion resistance. Marine, logging, mining.

Compatible Hose: H039; H104; H114; H145; H245; H425

Pressure: Determined by the maximum working pressure for hose size and hose end configuration whichever is lesser. See page 14 for working pressure ratings for hose end configurations.

Material: 316 stainless steel

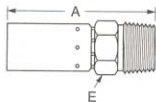
Advantages: Stainless steel protection from the elements.

Assemble With: T-400-1, T-410-1, T-420-1, T-440-1, T-460, T-462, T-465-1, T-480.

Ordering Information: Order individually by catalog number.

⚠ Refer to important safety information on page 3.

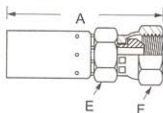
Male Pipe Rigid



HOSE ID	PIPE SIZE	CATALOG NUMBER	THREAD SIZE NPTF	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04S-104	1/4-18	2.49	1.00	.16	5/8
3/8	3/8	06S-106	3/8-18	2.52	1.00	.25	3/4
1/2	1/2	08S-108	1/2-14	2.75	1.31	.36	7/8
3/4	3/4	12S-112	3/4-14	3.61	1.44	.61	1-1/8
1	1	16S-116	1-11-1/2	4.23	2.00	.81	1-3/8
1-1/4	1-1/4	*20S-120	1-1/4-11-1/2	4.61	2.31	1.02	1-11/16

*Part number will crimp in Coll-O-Crimp T-410-1, T-420-1, T-440-1, and T-480-1 presses only.

JIC 37° Female Swivel
(Refer to Footnotes)



HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04S-604 ^a	7/16-20	2.61	1.13	.16	9/16	9/16
3/8	3/8	06S-606	9/16-18	2.77	1.31	.25	11/16	11/16
1/2	1/2	08S-608 ^a	3/4-16	2.79	1.38	.36	13/16	7/8
1/2	5/8	08S-610 ^a	7/8-14	3.00	1.56	.36	13/16	1
3/4	3/4	12S-612	1-1/16-12	3.86	1.69	.61	1	1-1/4
1	1	16S-616	1-5/16-12	4.46	2.25	.81	1-1/4	1-1/2
1-1/4	1-1/4	*20S-620	1-5/8-12	4.90	2.63	1.02	1-11/16	2

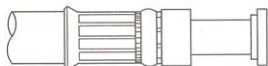
*Part number will crimp in Coll-O-Crimp T-410-1, T-420-1, T-440-1, and T-480-1 presses only.

†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 45° and 37° connections.

Hose End 570 'S' Series

(Stainless Steel one piece stem.)



Refer to important safety information on page 3.

WARNING - 57032S ends can ONLY be crimped on the T-440.

Ordering Information: Order individually by catalog number; reference individual hose end listings for details. For split flange kits, reference pages 317-320.

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

Typical Application: Very high pressure hydraulic lines subjected to extreme pressure surges and flexing. Some applications include mining, construction, forestry, farming and high performance industrial equipment.

Compatible Hose: H470

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See page 14 for working pressure ratings for hose end configurations.

Material: Stainless steel one piece stem, high strength and ductility steel collar.

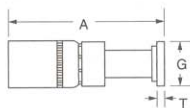
Advantages: SAE Code 62 High Pressure Series hose ends. Thicker tube wall for greater mechanical load bearing, stainless insert eliminates corrosion problems, tapered flange head design offers superior stress resistance.

Assemble With: T-410-1 Coll-O-Crimp II, T-440-1 Coll-O-Crimp II Plus, T-420-1 Coll-O-Crimp Super I or T-480.

Label Set: FS-1800

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

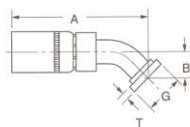
Split Flange Straight (SAE Code 62)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
3/4	3/4	57012S-D12	12x252	5.21	3.19	.59	1.62	.345
3/4	1	57012S-D16	16x252	5.34	3.31	.59	1.88	.375
1	1	57016S-D16	16x252	5.70	3.38	.78	1.88	.375
1	1-1/4	57016S-D20	20x252	5.88	3.50	.78	2.12	.405
1-1/4	1-1/4	57020S-D20	20x252	6.33	3.19	.98	2.12	.405
1-1/4	1-1/2	57020S-D24	24x252	6.52	3.38	.98	2.50	.495
1-1/2	1-1/2	57024S-D24	24x252	7.45	4.06	1.17	2.50	.495
2	2	57032S-D32	32x252	9.05	5.25	1.56	3.12	.495

(For Split Flange Kits, see page 317-320.)

Split Flange 45° Tube Elbow (SAE Code 62)

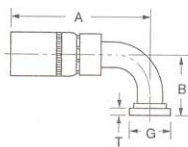


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	HOSE CUT-OFF FACTOR†	B	HOLE DIA.	DIA. G	T NOMINAL
3/4	3/4	57012S-D42	12x252	5.24	1.08	3.19	.59	1.62	.345
3/4	1	57012S-D46	16x252	5.33	1.17	3.25	.59	1.88	.375
1	1	57016S-D46	16x252	6.01	1.32	3.63	.78	1.88	.375
1	1-1/4	57016S-D50	20x252	6.14	1.45	3.75	.78	2.12	.405
1-1/4	1-1/4	57020S-D50	20x252	7.31	1.56	4.19	.98	2.12	.405
1-1/4	1-1/2	57020S-D54	24x252	7.44	1.69	4.31	.98	2.50	.495
1-1/2	1-1/2	57024S-D54	24x252	8.24	1.79	4.81	1.17	2.50	.495
2	2	57032S-D62	32x252	9.62	2.26	5.88	1.56	3.12	.495

(For Split Flange Kits, see page 317-320.)

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

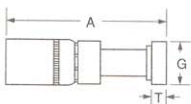
Split Flange 90° Tube Elbow (SAE Code 62)



HOSE LD	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR	HOLE DIA.	DIA. G	T NOMINAL
3/4	3/4	57012S-D72	12x252	4.79	2.34	2.75	.59	1.62	.345
3/4	1	57012S-D76	16x252	4.79	2.47	2.75	.59	1.88	.375
1	1	57016S-D76	16x252	5.57	2.81	3.19	.78	1.88	.375
1	1-1/4	57016S-D80	20x252	5.57	2.99	3.19	.78	2.12	.405
1-1/4	1-1/4	57020S-D80	20x252	6.63	3.60	3.50	.98	2.12	.405
1-1/4	1-1/2	57020S-D84	24x252	6.63	3.79	3.50	.98	2.50	.495
1-1/2	1-1/2	57024S-D84	24x252	7.62	4.15	4.19	1.17	2.50	.495
2	2	57032S-D92	32x252	8.97	5.49	5.25	1.56	3.12	.495

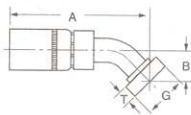
(For Split Flange Kits, see page 317-320.)

Split Flange Straight THICK-FLANGE™ (SAE Code 62)



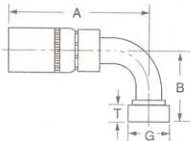
HOSE LD	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	HOSE CUT-OFF	HOLE DIA.	DIA. E	THICK-FLANGE T NOMINAL
3/4	3/4	57012S-K12	12x252	5.43	3.38	.59	1.62	.570
3/4	1	57012S-K16	16x252	5.53	3.50	.59	1.88	.570
1	1	57016S-K16	16x252	5.89	3.50	.78	1.88	.570
1	1-1/4	57016S-K20	20x252	6.04	3.69	.78	2.12	.570
1-1/4	1-1/4	57020S-K20	20x252	6.49	3.31	.98	2.12	.570
1-1/4	1-1/2	57020S-K24	24x252	6.59	3.44	.98	2.50	.570
1-1/2	1-1/2	57024S-K24	24x252	7.52	4.13	1.17	2.50	.570
2	2	57032S-K32	32x252	9.12	5.31	1.56	3.12	.570

Split Flange 45° Tube Elbow THICK-FLANGE™ (SAE Code 62)



HOSE LD	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
3/4	3/4	57012S-K42	12x252	5.39	1.23	3.31	.59	1.62	.570
3/4	1	57012S-K46	16x252	5.46	1.30	3.44	.59	1.88	.570
1	1	57016S-K46	16x252	6.14	1.45	3.75	.78	1.88	.570
1	1-1/4	57016S-K50	20x252	6.25	1.56	3.88	.78	2.12	.570
1-1/4	1-1/4	57020S-K50	20x252	7.42	1.67	4.25	.98	2.12	.570
1-1/4	1-1/2	57020S-K54	24x252	7.49	1.74	4.31	.98	2.50	.570
1-1/2	1-1/2	57024S-K54	24x252	8.29	1.84	4.88	1.17	2.50	.570
2	2	57032S-K62	32x252	9.67	2.31	5.88	1.56	3.12	.570

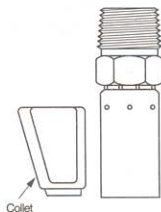
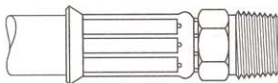
Split Flange 90° Tube Elbow THICK-FLANGE™ (SAE Code 62)



HOSE LD	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR	HOLE DIA.	DIA. G	T NOMINAL
3/4	3/4	57012S-K72	12x252	4.79	2.56	2.75	.59	1.62	.570
3/4	1	57012S-K76	16x252	4.79	2.70	2.75	.59	1.88	.570
1	1	57016S-K76	16x252	5.57	3.00	3.19	.78	1.88	.570
1	1-1/4	57016S-K80	20x252	5.57	3.15	3.19	.78	2.12	.570
1-1/4	1-1/4	57020S-K80	20x252	6.63	3.76	3.50	.98	2.12	.570
1-1/4	1-1/2	57020S-K84	24x252	6.63	3.86	3.50	.98	2.50	.570
1-1/2	1-1/2	57024S-K84	24x252	7.62	4.22	4.19	1.17	2.50	.570
2	2	57032S-K92	32x252	8.97	5.56	5.19	1.56	3.12	.570

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

Hose End 'U' Series



Refer to important safety information on page 3.

Typical Application: General purpose low, medium, and high pressure hydraulic.

Compatible Hose: H017; H039; H104; H105; H115; H145; H146; H245; H324; H325; H350; H425

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See page 14 for working pressure ratings for hose end configurations.

Material: Low Carbon Steel

Plating: Zinc; yellow dichromate finish

Advantages: Wide selection of hose and end configurations allowing a diverse number of applications. An ideal series to introduce hydraulics.

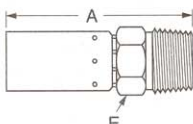
Assemble With: T-400-1, T-410-1, T-420-1, T-440, T-460, T-462, T-465 and T-480.

Ordering Information: Order individually by catalog number. O-rings not supplied with flange hose ends. Order o-rings by catalog number; reference individual listings for details. For split flange kits, refer to pages 317-320.

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

Label Set: FS-1100

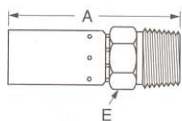
Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/8	04U-102	1/8-27	2.31	.75	.16	9/16
1/4	1/4	04U-104	1/4-18	2.49	.94	.16	9/16
1/4	3/8	04U-106	3/8-18	2.52	1.00	.16	11/16
1/4	1/2	04U-108	1/2-14	2.77	1.06	.16	7/8
3/8	1/4	06U-104	1/4-18	2.52	1.00	.25	11/16
3/8	3/8	06U-106	3/8-18	2.52	1.00	.25	11/16
3/8	1/2	06U-108	1/2-14	2.77	1.25	.25	7/8
1/2	1/4	08U-104	1/4-18	2.56	.88	.28	13/16
1/2	3/8	08U-106	3/8-18	2.57	1.14	.36	3/4
1/2	1/2	08U-108	1/2-14	2.75	1.31	.36	13/16
1/2	3/4	08U-112	3/4-14	2.83	1.28	.36	1-1/16
5/8	3/8	10U-106	3/8-18	3.12	1.13	.48	15/16
5/8	1/2	10U-108	1/2-14	3.31	1.38	.48	15/16
5/8	3/4	10U-112	3/4-14	3.31	1.30	.48	1-1/16
3/4	1/2	12U-108	1/2-14	3.62	1.44	.61	1
3/4	3/4	12U-112	3/4-14	3.61	1.44	.61	1-1/16
3/4	1	12U-116	1-11-1/2	3.84	1.69	.61	1-3/8
1	3/4	16U-112	3/4-14	4.23	1.88	.81	1-1/4
1	1	16U-116	1-11-1/2	3.90	1.69	.81	1-3/8
1-1/4	1-1/4	20U-120	1-1/4-11-1/2	4.61	2.31	1.02	1-11/16

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

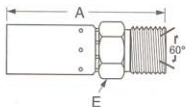
British Standard Tapered Male Pipe (BSPT/JIS) Rigid



HOSE I.D.	BSPT PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04U-154	R-1/4-19"	2.51	1.00	.16	3/4
3/8	3/8	06U-156	R-3/8-19"	2.54	1.06	.25	11/16
1/2	1/2	08U-158	R-1/2-14"	2.78	1.31	.36	7/8
3/4	3/4	12U-162	R-3/4-14"	3.62	1.44	.61	1-1/8
1	1	16U-166	R-1-11"	4.23	2.00	.81	1-3/8

*R As Part of Thread Size is ISO Designation for Tapered Thread.

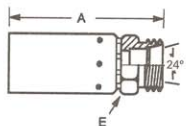
British Standard 60° (BSPP) Cone Male Pipe Rigid



HOSE I.D.	BSPT PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04U-P54	G-1/4-19**	2.38	.88	.16	11/16
3/8	3/8	06U-P56	G-3/8-19**	2.48	.94	.25	3/4
3/8	1/2	06U-P58	G-1/2-14**	2.62	1.06	.25	1
1/2	3/8	08U-P56	G-3/8-19**	2.54	1.13	.32	13/16
1/2	1/2	08U-P58	G-1/2-14**	2.62	1.19	.36	1
5/8	5/8	10U-P60	G-5/8-14**	3.25	1.31	.48	1-1/8
3/4	3/4	12U-P62	G-3/4-14**	3.65	1.50	.61	1-1/8
1	1	16U-P66	G-1-11**	3.91	1.69	.81	1-3/8
1-1/4	1-1/4	20U-P67	G-1-1/4-11**	4.41	2.13	1.02	1-3/4

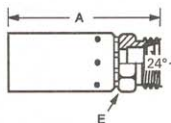
**G As Part of Thread Size is ISO Designation for Parallel Thread.

Male DIN Universal Seat I. Rh. (Light)



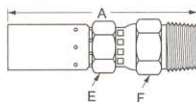
HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	8	04U-08A	M14x1.5	2.27	.81	.16	9/16
1/4	10	04U-10A	M16x1.5	2.36	.88	.16	11/16
3/8	10	06U-10A	M16x1.5	2.36	.94	.25	11/16
3/8	12	06U-12A	M18x1.5	2.36	.94	.25	3/4
1/2	15	08U-15A	M22x1.5	2.42	1.00	.36	7/8
5/8	18	10U-18A	M26x1.5	2.99	1.06	.48	1-1/16
3/4	22	12U-22A	M30x2.0	3.45	1.31	.61	1-1/4
1	28	16U-28A	M36x2.0	3.73	1.50	.81	1-1/2

Male DIN 24° Seat s. Rh. (Heavy)



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	8	04U-08F	M16x1.5	2.39	.88	.16	11/16
1/4	10	04U-10F	M18x1.5	2.40	.88	.16	3/4
3/8	10	06U-10F	M18x1.5	2.40	.94	.25	3/4
3/8	12	06U-12F	M20x1.5	2.42	1.00	.25	13/16
3/8	14	06U-14F	M22x1.5	2.50	1.06	.25	7/8
1/2	16	08U-16F	M24x1.5	2.57	1.13	.36	1
5/8	20	10U-20F	M30x2	3.21	1.28	.48	1-1/4
3/4	20	12U-20F	M30x2	3.53	1.38	.61	1-1/4
3/4	25	12U-25F	M36x2	3.71	1.56	.61	1-1/2
1	30	16U-30F	M42x2	3.98	1.75	.81	1-11/16

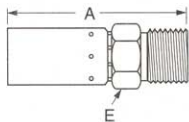
Male Pipe Swivel



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04U-J04	1/4-18	3.38	1.88	.16	5/8	13/16
3/8	1/4	06U-J04	1/4-18	3.40	1.94	.25	11/16	13/16
3/8	3/8	06U-J06	3/8-18	3.38	1.94	.25	11/16	7/8
3/8	1/2	06U-J08	1/2-14	3.60	2.13	.25	3/4	7/8
1/2	3/8	08U-J06	3/8-18	3.45	2.00	.36	13/16	7/8
1/2	1/2	08U-J08	1/2-14	3.60	2.19	.36	13/16	7/8
3/4	3/4	12U-J12	3/4-14	4.73	2.56	.61	1	1-1/4
1	1	16U-J16	1-11/2	5.20	3.00	.80	1-1/4	1-3/8

Note: Swivel for installation purposes only.
(Not for temperatures above 212°F)

FOR-SEAL® Male Rigid

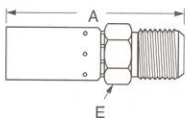


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	O-RING	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04U-E64	9/16-18	4629x4	2.34	.88	.16	5/8
3/8	3/8	06U-E66	11/16-16	4629x6	2.43	1.00	.25	13/16
3/8	1/2	06U-E68	13/16-16	4629x8	2.54	1.13	.38	7/8
1/2	1/2	08U-E68	13/16-16	4629x8	2.54	1.13	.36	7/8
1/2	5/8	08U-E70	1-14	4629x10	2.78	1.35	.36	1-1/16
1/2	3/4	08U-E72	1-3/16-12	4629x12	2.76	1.31	.36	1-1/4
5/8	5/8	10U-E70	1-14	4629x10	3.20	1.25	.48	1-1/16
5/8	3/4	10U-E72	1-3/16-12	4629x12	3.45	1.50	.48	1-1/4
3/4	3/4	12U-E72	1-3/16-12	4629x12	3.58	1.44	.61	1-1/4
3/4	1	12U-E76	1-7/16-12	4629x16	3.60	1.44	.61	1-1/2
1	1	16U-E76	1-7/16-12	4629x16	3.73	1.50	.81	1-1/2
1-1/4	1-1/4	20U-E80	1-11/16-12	4629x20	4.10	1.81	1.02	1-3/4

(Does not include O-ring. See page 267 for O-ring.)

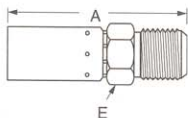
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

JIC 37° Male Rigid



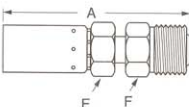
HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04U-504	7/16-20	2.48	1.00	.16	1/2
1/4	5/16	04U-505	1/2-20	2.51	1.00	.16	9/16
1/4	3/8	04U-506	9/16-18	2.55	1.00	.16	5/8
3/8	3/8	06U-506	9/16-18	2.54	1.00	.25	11/16
3/8	1/2	06U-508	3/4-16	2.67	1.25	.25	13/16
3/8	5/8	06U-510	7/8-14	2.83	1.31	.25	15/16
1/2	1/2	08U-508	3/4-16	2.70	1.19	.38	13/16
1/2	5/8	08U-510	7/8-14	2.83	1.31	.36	15/16
1/2	3/4	08U-512	1-1/16-12	2.87	1.44	.36	1-1/8
5/8	1/2	10U-508	3/4-16	3.22	1.31	.39	15/16
5/8	5/8	10U-510	7/8-14	3.32	1.38	.48	15/16
5/8	3/4	10U-512	1-1/16-12	3.42	1.44	.48	1-1/8
3/4	5/8	12U-510	7/8-14	3.64	1.44	.43	1
3/4	3/4	12U-512	1-1/16-12	3.74	1.56	.61	1-1/16
3/4	7/8	12U-514	1-3/16-12	3.81	1.63	.61	1-1/4
3/4	1	12U-516	1-5/16-12	3.81	1.63	.61	1-3/8
1	7/8	16U-514	1-3/16-12	4.18	1.94	.72	1-1/4
1	1	16U-516	1-5/16-12	4.20	2.00	.81	1-3/8
1	1-1/4	16U-520	1-5/8-12	4.02	1.81	.81	1-11/16
1-1/4	1-1/4	20U-520	1-5/8-12	4.60	2.31	1.02	1-11/16

SAE 45° Flare Male Rigid



HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
3/8	3/8	06U-306	5/8-18	2.60	1.13	.28	11/16
3/4	3/4	12U-312	1-1/16-14	3.87	1.69	.61	1-1/8

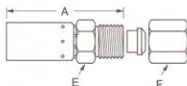
Inverted Male Swivel Straight



HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	3/16	04U-B03	3/8-24	3.75	2.25	.12	9/16	3/8
1/4	1/4	04U-B04	7/16-24	3.14	1.69	.16	9/16	7/16
1/4	5/16	04U-B05	1/2-20	3.13	1.63	.21	9/16	1/2
3/8	1/4	06U-B04	7/16-24	3.13	1.69	.16	11/16	7/16
3/8	5/16	06U-B05	1/2-20	3.16	1.75	.21	11/16	1/2
3/8	3/8	06U-B06	5/8-18	3.33	1.94	.24	11/16	5/8
3/8	7/16	06U-B07	11/16-18	3.33	1.94	.24	11/16	11/16
1/2	1/2	08U-B08	3/4-18	3.69	2.25	.33	13/16	3/4
1/2	5/8	08U-B10	7/8-18	3.43	2.00	.33	13/16	7/8

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

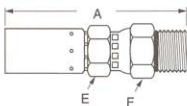
**Flareless Tube Rigid
 Ermeto® 7000 Series
 (With Nut and Sleeve)**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04U-754	7/16-20	2.38	.94	.16	9/16	9/16
1/4	5/16	04U-755	1/2-20	2.41	.93	.16	11/16	5/8
3/8	1/4	06U-754	7/16-20	2.40	1.00	.20	11/16	9/16
3/8	5/16	06U-755	1/2-20	2.40	1.00	.23	11/16	5/8
3/8	3/8	06U-756	9/16-18	2.42	1.00	.25	11/16	11/16
1/2	1/2	08U-758	3/4-16	2.51	1.13	.36	13/16	7/8
1/2	5/8	08U-760	7/8-14	2.64	1.25	.36	15/16	1
3/4	3/4	12U-762	1-1/16-12	3.55	1.38	.61	1-1/8	1-1/4
1	1	16U-766	1-5/16-12	3.98	1.75	.81	1-3/8	1-1/2
1-1/4	1-1/4	20U-770	1-5/8-12	4.35	2.00	1.02	1-11/16	2

(For replacement Ermeto® Nuts and Sleeves, see page 299.)

**Male Straight Thread
 O-Ring Swivel**



HOSE I.D.	PORT SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04U-R04	7/16-20	3.33	1.81	.16	5/8	13/16
3/8	3/8	06U-R06	9/16-18	3.29	1.86	.25	11/16	7/8
3/8	1/2	06U-R08	3/4-16	3.25	1.75	.25	11/16	7/8
1/2	1/2	08U-R08	3/4-16	3.27	1.81	.36	13/16	7/8
1/2	5/8	08U-R10	7/8-14	3.41	2.00	.36	13/16	1-1/8
1/2	3/4	08U-R12	1-1/16-12	3.57	2.06	.36	13/16	1-1/4
5/8	1/2	10U-R08	3/4-16	3.96	1.88	.42	15/16	1-1/8
3/4	5/8	12U-R10	7/8-14	4.23	2.06	.50	1	1-1/8

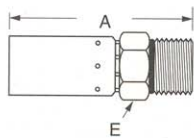
(Includes O-ring. For replacement O-ring, see page 254.)

Note: Swivel for installation purposes only.

(Not for temperatures above 212°F)

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

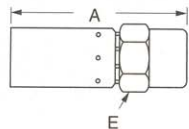
**Male Straight Thread
 O-Ring Rigid**



HOSE ID	PORT SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04U-P04	7/16-20	2.29	.81	.16	9/16
1/4	5/16	04U-P05	1/2-20	2.32	.88	.16	5/8
1/4	3/8	04U-P06	9/16-18	2.35	.88	.16	11/16
3/8	3/8	06U-P06	9/16-18	2.35	.94	.25	11/16
3/8	1/2	06U-P08	3/4-16	2.46	1.06	.25	7/8
3/8	5/8	06U-P10	7/8-14	2.57	1.13	.25	1
1/2	1/2	08U-P08	3/4-16	2.46	1.06	.36	7/8
1/2	5/8	08U-P10	7/8-14	2.55	1.13	.36	1
1/2	3/4	08U-P12	1-1/16-12	2.66	1.25	.36	1-1/4
5/8	1/2	10U-P08	3/4-16	3.00	1.13	.48	15/16
5/8	5/8	10U-P10	7/8-14	3.06	1.13	.48	1
5/8	3/4	10U-P12	1-1/16-12	3.15	1.25	.48	1-1/4
3/4	5/8	12U-P10	7/8-14	3.36	1.19	.50	1
3/4	3/4	12U-P12	1-1/16-12	3.49	1.31	.61	1-1/4
3/4	1	12U-P16	1-5/16-12	3.50	1.31	.61	1-1/2
1	1	16U-P16	1-5/16-12	3.63	1.44	.81	1-1/2
1-1/4	1-1/4	20U-P20	1-5/8-12	4.23	1.94	1.02	1-7/8

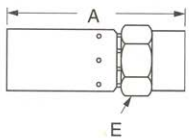
(Includes O-ring. For replacement O-ring, see page 254.)

Female Grease Tap



HOSE ID	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	04U-C34	.511-27	2.45	.90	.16	3/4
3/8	06U-C36	.511-27	2.44	.90	.25	3/4

Female Pipe Rigid

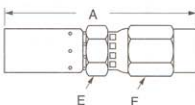


HOSE ID	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/8	04U-202	1/8-27	2.20	.75	.16	5/8
1/4	1/4	04U-204	1/4-18	2.43	.94	.16	3/4
3/8	1/4	06U-204	1/4-18	2.46	1.06	.25	3/4
3/8	3/8	06U-206	3/8-18	2.57	1.13	.25	7/8
1/2	1/2	08U-208	1/2-14	2.82	1.38	.36	1-1/8
3/4	3/4	12U-212	3/4-14	3.71	1.56	.61	1-3/8

†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.

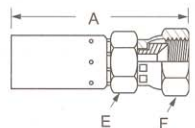
Female Pipe Swivel



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04U-254	1/4-18	3.52	2.06	.20	5/8	13/16
3/8	3/8	06U-256	3/8-18	3.61	2.19	.32	11/16	7/8
1/2	1/2	08U-258	1/2-14	3.85	2.38	.43	13/16	1-1/8
3/4	3/4	12U-262	3/4-14	4.81	2.63	.61	1	1-3/8
1	1	16U-266	1-11/2	5.26	3.06	.80	1-1/4	1-5/8

Note: Swivel for installation purposes only.
 (Not for temperatures above 212°F)

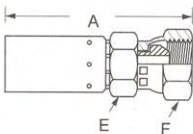
JIC 37° Female Swivel
 (Exceptions Noted for 45° Flare, Refer to Footnotes)



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04U-604 ^a	7/16-20	2.61	1.13	.16	9/16	9/16
1/4	5/16	04U-605 ^a	1/2-20	2.67	1.18	.16	9/16	5/8
1/4	3/8	04U-606	9/16-18	2.72	1.25	.16	9/16	11/16
3/8	1/4	06U-604 ^a	7/16-20	2.66	1.25	.16	11/16	9/16
3/8	3/8	06U-606	9/16-18	2.77	1.31	.25	11/16	11/16
3/8	1/2	06U-608 ^a	3/4-16	2.86	1.44	.25	11/16	7/8
3/8	5/8	06U-610 ^a	7/8-14	3.00	1.56	.25	7/8	1
3/8	3/4	06U-612	1-1/16-12	3.15	1.69	.25	1	1-1/4
1/2	3/8	08U-606	9/16-18	2.68	1.25	.30	13/16	11/16
1/2	1/2	08U-608 ^a	3/4-16	2.79	1.38	.36	13/16	7/8
1/2	5/8	08U-610 ^a	7/8-14	3.00	1.56	.36	13/16	1
1/2	3/4	08U-612	1-1/16-12	3.12	1.44	.36	1	1-1/4
1/2	1	08U-616	1-5/16-12	3.17	1.75	.36	1-1/4	1-1/2
5/8	1/2	10U-608 ^a	3/4-16	3.48	1.56	.39	15/16	7/8
5/8	5/8	10U-610 ^a	7/8-14	3.53	1.63	.48	15/16	1
5/8	3/4	10U-612	1-1/16-12	3.64	1.75	.48	1	1-1/4
3/4	5/8	12U-610 ^a	7/8-14	3.75	1.56	.48	1	1
3/4	3/4	12U-612	1-1/16-12	3.86	1.69	.61	1	1-1/4
3/4	7/8	12U-614	1-3/16-12	3.88	1.69	.61	1-1/8	1-3/8
3/4	1	12U-616	1-5/16-12	4.07	1.88	.61	1-1/4	1-1/2
1	3/4	16U-612	1-1/16-12	4.37	2.13	.61	1-1/4	1-1/4
1	7/8	16U-614	1-3/16-12	4.35	2.13	.72	1-1/4	1-3/8
1	1	16U-616	1-5/16-12	4.46	2.25	.81	1-1/4	1-1/2
1	1-1/4	16U-620	1-5/8-12	4.30	2.19	.81	1-5/8	2
1-1/4	1-1/4	20U-620	1-5/8-12	4.90	2.63	1.02	1-11/16	2

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

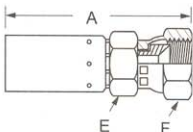
Female Straight Pipe Swivel (NPSM)



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	NPSM THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04U-054	1/4-18	2.55	1.06	.16	1/2	11/16
3/8	3/8	06U-056	3/8-18	2.65	1.19	.27	11/16	7/8
1/2	1/2	08U-058	1/2-14	2.85	1.44	.36	13/16	1
3/4	3/4	12U-062	3/4-14	3.77	1.63	.61	1	1-1/4
1	1	16U-066	1-11-1/2	4.34	2.13	.81	1-1/4	1-1/2
1-1/4	1-1/4	20U-070	1-1/4-11-1/2	4.76	2.44	1.08	1-11/16	1-7/8

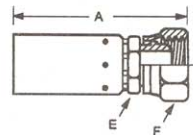
(Connects to male pipe fitting with internal seat.)

SAE 45° Female Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/8	3/8	06U-406	5/8-18	2.68	1.25	.25	11/16	3/4
3/4	3/4	12U-412	1-1/16-14	3.86	1.69	.61	1	1-1/4

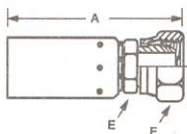
Female Swivel DIN Universal Seat I. Rh. (Light) (DIN 3901/3902)



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	6	04U-06C	M12x1.5	2.73	1.25	.16	9/16	11/16
1/4	8	04U-08C	M14x1.5	2.76	1.25	.16	9/16	11/16
1/4	10	04U-10C	M16x1.5	2.82	1.38	.16	9/16	3/4
3/8	10	06U-10C	M16x1.5	2.78	1.38	.25	11/16	3/4
3/8	12	06U-12C	M18x1.5	2.93	1.50	.25	11/16	7/8
1/2	15	08U-15C	M22x1.5	2.98	1.56	.36	13/16	1-1/16
5/8	18	10U-18C	M26x1.5	3.61	1.69	.48	15/16	1-1/4
3/4	22	12U-22C	M30x2.0	4.03	1.88	.61	1-1/8	1-7/16
1	28	16U-28C	M36x2.0	4.47	2.25	.78	1-1/4	1-5/8
1-1/4	35	20U-35C	M45x2.0	4.61	2.25	1.02	1-3/4	2-1/8

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

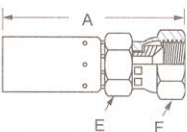
Female Swivel DIN 24° Seat
 s. Rh. DKO (Heavy)



HOSE ID	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E	HEX F
1/4	8	04U-59C	M16x1.5	2.88	1.40	.16	9/16	3/4
1/4	10	04U-60C	M18x1.5	2.78	1.31	.16	5/8	7/8
1/4	12	04U-62C	M20x1.5	2.67	1.19	.16	3/4	1
3/8	10	06U-60C	M18x1.5	2.78	1.38	.22	3/4	7/8
3/8	12	06U-62C	M20x1.5	2.87	1.44	.25	3/4	1
3/8	14	06U-64C	M22x1.5	2.92	1.50	.25	3/4	1-1/16
1/2	16	08U-66C	M24x1.5	3.06	1.63	.36	7/8	1-1/8
5/8	20	10U-70C	M30x2.0	3.46	1.69	.48	1-1/8	1-7/16
3/4	20	12U-70C	M30x2.0	3.91	1.75	.48	1-1/8	1-7/16
3/4	25	12U-75C	M36x2.0	4.24	2.06	.61	1-1/4	1-5/8
1	30	16U-80C	M42x2.0	4.34	2.13	.81	1-5/8	2
1-1/4	38	20U-88C*	M52x2.0	4.80	2.50	1.02	2	2-3/8

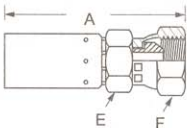
*20U-88C for use with H42520 only. Crimp on Super I, COC II or COC II Plus only.
 (Includes O-ring.)

Female Swivel 30° Flare
 (Komatsu, Linkbelt)



HOSE ID	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E	HEX F
1/4	04U-14K	M14x1.5	2.89	1.19	.18	9/16	3/4
3/8	06U-18K	M18x1.5	2.86	1.44	.31	11/16	7/8
1/2	08U-22K	M22x1.5	2.99	1.56	.39	13/16	1
5/8	10U-24K	M24x1.5	3.64	1.69	.50	1	1-1/4
3/4	12U-30K	M30x1.5	3.86	1.69	.61	1-1/8	1-3/8
1	16U-33K	M33x1.5	4.53	2.31	.81	1-1/4	1-5/8
1-1/4	20U-36K	M36x1.5	5.24	2.94	.92	1-5/8	1-3/4

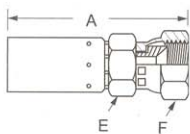
British Standard (BSPP) 60°
 Cone Female Pipe Swivel



HOSE ID	BSPP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E	HEX F
1/4	1/4	04U-354	G-1/4-19°	2.75	1.25	.16	9/16	3/4
1/4	3/8	04U-356	G-3/8-19°	2.84	1.38	.16	3/4	7/8
3/8	3/8	06U-356	G-3/8-19°	2.84	1.44	.25	3/4	7/8
3/8	1/2	06U-358	G-1/2-14°	2.97	1.56	.25	7/8	1-1/16
1/2	1/2	08U-358	G-1/2-14°	3.05	1.63	.36	13/16	1-1/16
1/2	5/8	08U-360	G-5/8-14°	2.96	1.56	.36	13/16	1-3/16
5/8	5/8	10U-360	G-5/8-14°	3.71	1.75	.48	15/16	1-3/16
3/4	3/4	12U-362	G-3/4-14°	3.87	1.75	.61	1	1-1/4
1	1	16U-366	G-1-11°	4.47	2.25	.81	1-1/4	1-1/2
1-1/4	1-1/4	20U-370	G-1-1/4-11°	4.81	2.50	1.02	1-5/8	1-7/8

*G As Part of Thread Size is ISO Designation for Parallel Thread.

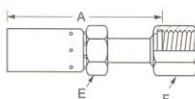
Female JIS 30° Flare
 Parallel Pipe Swivel



HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04U-04L	G-1/4-19	2.73	1.25	.16	9/16	3/4
3/8	3/8	06U-06L	G-3/8-19	2.84	1.38	.25	11/16	7/8
1/2	1/2	08U-08L	G-1/2-14	3.02	1.56	.36	13/16	1-1/16
5/8	3/4	10U-12L	G-3/4-14	3.52	1.56	.48	1	1-5/16
3/4	3/4	12U-12L	G-3/4-14	3.85	1.75	.61	1	1-1/4
1	1	16U-16L	G-1-11	4.13	1.94	.81	1-1/4	1-1/2

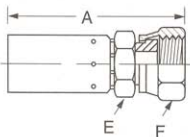
†G As Part of Thread Size is ISO Designation for Parallel Thread.

Female FOR-SEAL®
 Swivel Straight



HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04U-S64	9/16-18	2.82	1.34	.16	9/16	11/16
1/4	3/8	04U-S66	11/16-16	2.85	1.37	.26	9/16	13/16
1/4	1/2	04U-S68	13/16-16	3.19	1.75	.36	11/16	15/16
3/8	1/4	06U-S64	9/16-18	2.81	1.38	.16	11/16	5/8
3/8	3/8	06U-S66	11/16-16	2.87	1.54	.26	11/16	13/16
3/8	1/2	06U-S68	13/16-16	3.22	1.79	.28	11/16	15/16
1/2	3/8	08U-S66	11/16-16	2.91	1.50	.26	13/16	13/16
1/2	1/2	08U-S68	13/16-16	3.15	1.74	.36	13/16	15/16
1/2	5/8	08U-S70	1-14	3.30	1.87	.46	13/16	1-1/8
1/2	3/4	08U-S72	1-3/16-12	3.38	1.94	.36	1	1-3/8
5/8	5/8	10U-S70	1-14	3.61	1.68	.46	15/16	1-1/8
5/8	3/4	10U-S72	1-3/16-12	3.84	1.94	.55	1	1-3/8
3/4	5/8	12U-S70	1-14	4.12	1.94	.46	1	1-1/8
3/4	3/4	12U-S72	1-3/16-12	4.20	2.06	.55	1	1-3/8
3/4	1	12U-S76	1-7/16-12	4.78	2.81	.61	1-1/4	1-5/8
1	3/4	16U-S72	1-3/16-12	4.36	2.16	.55	1-1/4	1-3/8
1	1	16U-S76	1-7/16-12	4.88	2.69	.78	1-1/4	1-5/8
1	1-1/4	16U-S80	1-11/16-12	4.53	2.31	.81	1-1/2	1-7/8
1-1/4	1-1/4	20U-S80	1-11/16-12	4.54	2.25	1.04	1-5/8	1-7/8

BSPB Flat Face Female
 Swivel (HIAB Cranes-
 Swedish)



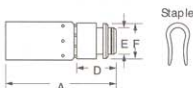
HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/8	3/8	06U-06P	G-3/8-19*	2.90	1.50	.25	11/16	7/8
3/8	1/2	06U-08P	G-1/2-14*	2.96	1.50	.25	3/4	1-1/16
1/2	1/2	08U-08P	G-1/2-14*	3.02	1.56	.36	13/16	1-1/16
1/2	3/4	08U-12P	G-3/4-14*	3.06	1.63	.36	1	1-1/4
3/4	3/4	12U-12P	G-3/4-14*	3.92	1.75	.61	1	1-1/4

*G As Part of Thread Size is ISO Designation for Parallel Thread.

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

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

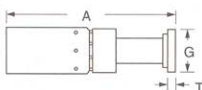
READY-LOK® Male Connector (For Deep Mining Markets)



HOSE I.D.	CONNECT. SIZE	CATALOG NUMBER	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	LENGTH D	DIA. E	DIA. F
1/4	1/4	04U-04S	2.82	1.31	.16	1.13	.39	.59
3/8	3/8	06U-06S	2.84	1.31	.26	1.13	.54	.78
1/2	1/2	08U-08S	2.82	1.31	.36	1.13	.70	.94
3/4	3/4	12U-12S	3.64	1.50	.61	1.13	.94	1.14
1	1	16U-16S	3.94	1.75	.81	1.34	1.22	1.53
1-1/4	1-1/4	20U-20S	4.06	1.75	1.02	1.34	1.49	1.80

O-ring and backup ring included.
(See page 316 for READY-LOK® Staple and O-ring.)

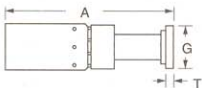
Split Flange Straight (SAE Code 61)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	HOSE CUT-OFF FACTOR	HOLE DIA.	DIA. G	T
1/2	1/2	08U-G08	8x252	3.94	2.50	.33	1.19 (30mm)	.265
3/4	3/4	12U-G12	12x252	4.40	2.25	.58	1.50 (38mm)	.265
3/4	1	12U-G16	16x252	4.40	2.25	.58	1.75 (44mm)	.315
1	1	16U-G16	16x252	4.58	2.38	.77	1.75 (44mm)	.315
1	1-1/4	16U-G20	20x252	4.58	2.38	.77	2.00 (51mm)	.315
1-1/4	1-1/4	20U-G20	20x252	5.04	2.75	1.02	2.00 (51mm)	.315
1-1/4	1-1/2	20U-G24	24x252	5.12	2.81	1.02	2.38 (60mm)	.315

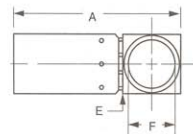
(See page 318 for Code 61 Split Flange Kits.)

Split Flange Straight - Metric (Komatsu, Linkbelt, etc.)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	HOSE CUT-OFF FACTOR	HOLE DIA.	DIA. G	T
5/8	16mm (5/8")	10U-G09	10x252	4.18	2.25	.46	34mm (1.325")	.265

Banjo (Ford Tractor)

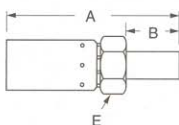


HOSE I.D.	CATALOG NUMBER	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E
3/8	06U-L06	2.56	.69	7/8	.62

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.

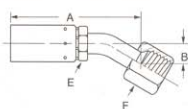
**Metric Standpipe
 Straight Tube**



HOSE I.D.	TUBE O.D. (MM)	CATALOG NUMBER	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	8	04U-38T	3.06	1.00	1.56	.15	5/8
1/4	10	04U-40T	3.10	1.04	1.63	.15	5/8
3/8	10	06U-40T	3.10	1.04	1.63	.24	13/16
3/8	12	06U-42T	3.10	1.04	1.63	.24	13/16
3/8	14	06U-44T	3.28	1.22	1.81	.24	13/16
1/2	15	08U-45T	3.12	1.00	1.69	.35	7/8
1/2	16	08U-46T	3.34	1.22	1.91	.35	7/8
5/8	18	10U-48T	3.64	1.06	1.75	.48	1-15/16
5/8	20	10U-50T	4.00	1.42	2.06	.48	1-15/16
3/4	22	12U-52T	4.13	1.19	1.88	.61	1
3/4	25	12U-55T	4.53	1.59	2.25	.61	1
1	28	16U-58T	4.43	1.25	2.25	.81	1-1/2
1	30	16U-60T	4.89	1.71	2.69	.81	1-1/2

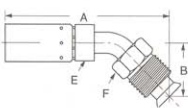
(See page 285 for Metric Nuts and Sleeves.)

**SAE 37° Female
 Swivel 30° Tube Elbow**



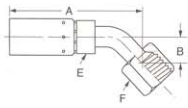
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HEX E.	HEX F
5/8	3/4	10U-L22	1-1/16-12	4.50	.46	2.56	15/16	1-1/4

**Inverted Male Swivel
 45° Tube Elbow**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	3/16	04U-B43	3/8-24	3.48	.69	2.00	.12	3/8
1/4	1/4	04U-B44	7/16-24	3.61	.93	2.13	.15	7/16
1/4	5/16	04U-B45	1/2-20	3.98	1.14	2.50	.21	1/2
3/8	1/4	06U-B44	7/16-24	3.59	.93	2.19	.15	7/16
3/8	5/16	06U-B45	1/2-20	4.02	1.14	2.56	.21	1/2
3/8	3/8	06U-B46	5/8-18	4.05	1.34	2.63	.24	5/8
3/8	7/16	06U-B47	11/16-18	4.05	1.34	2.63	.24	11/16
1/2	1/2	08U-B48	3/4-18	4.85	1.58	3.44	.33	3/4

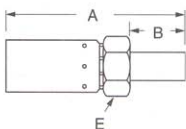
**SAE 45° Female
 Swivel 45° Tube Elbow**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX DIA. F	HEX F
3/8	3/8	06U-486	5/8-18	3.18	.39	1.75	.21	11/16	3/4

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

Standpipe Straight Tube

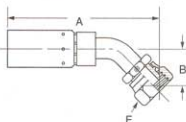


HOSE I.D.	TUBE O.D.	CATALOG NUMBER	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04U-T04	3.16	1.10	1.69	.15	9/16
3/8	3/8	06U-T06	3.36	1.30	1.94	.25	11/16
1/2	1/2	08U-T08	3.70	1.58	2.25	.33	3/4
5/8	5/8	10U-T10	3.92	1.34	2.00	.46	15/16
3/4	3/4	12U-T12	4.11	1.17	1.94	.58	1
1	1	16U-T16	4.48	1.30	2.31	.76	1-1/4

(See page 299 for Ermeto® Nuts and Sleeves.)

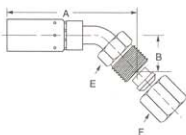
Female Swivel DIN Universal Seat 45° Tube Elbow

I. Rh. (Light)



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	8	04U-08D	M14x1.5	3.08	.73	1.63	.16	11/16
1/4	10	04U-10D	M16x1.5	3.21	.79	1.75	.16	3/4
3/8	10	06U-10D	M16x1.5	3.90	.96	2.47	.25	3/4
3/8	12	06U-12D	M18x1.5	3.93	.96	2.50	.25	7/8
1/2	15	08U-15D	M22x1.5	3.48	.91	2.06	.36	1-1/16
5/8	18	10U-18D	M26x1.5	4.40	1.08	2.50	.48	1-5/16
3/4	22	12U-22D	M30x2.0	4.62	1.19	2.44	.61	1-7/16
1	28	16U-28D	M36x2.0	5.41	1.56	3.25	.81	1-5/8

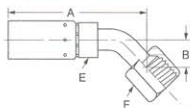
Flareless 45° Tube Elbow 7000 Ermeto® Series



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/8	3/8	06U-956	9/16-18	4.08	.88	2.65	.28	11/16	11/16

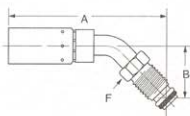
For replacement nuts and sleeves see page 299.

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



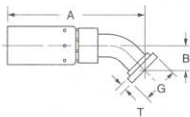
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX/ DIA. E	HEX F
1/4	1/4	04U-684 ^a	7/16-20	2.98	.33	1.50	.15	9/16	9/16
1/4	5/16	04U-685 ^a	1/2-20	3.14	.36	1.69	.21	9/16	5/8
3/8	1/4	06U-684 ^a	7/16-20	3.08	.33	1.69	.15	11/16	9/16
3/8	3/8	06U-686	9/16-18	3.17	.39	1.75	.25	11/16	11/16
3/8	1/2	06U-688 ^a	3/4-16	3.51	.55	2.08	.25	3/4	7/8
1/2	1/2	08U-688 ^a	3/4-16	3.51	.55	2.08	.35	13/16	7/8
1/2	5/8	08U-690 ^a	7/8-14	3.76	.63	2.31	.36	13/16	1
5/8	5/8	10U-690	7/8-14	4.22	.63	2.22	.48	15/16	1
5/8	3/4	10U-692	1-1/16-12	4.37	.78	2.44	.48	15/16	1-1/4
3/4	3/4	12U-692	1-1/16-12	4.79	.78	2.64	.59	1	1-1/4
3/4	1	12U-696	1-5/16-12	5.18	1.10	3.00	.61	1-1/4	1-1/2
1	1	16U-696	1-5/16-12	5.28	1.10	3.06	.76	1-1/4	1-1/2

Male Swivel 45° Tube Elbow O-Ring Port



HOSE I.D.	TUBE O.D.	CATALOG NUMBER	O-RING	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/2	5/8	08U-L50	7629x7	7/8-14	4.75	1.84	3.38	.36	7/8

Split Flange 45° Tube Elbow (SAE Code 61)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
1/2	1/2	08U-G41	8x252	3.68	.78	2.25	.41	1.19 (30mm)	.265
3/4	3/4	12U-G42	12x252	5.00	1.00	2.88	.58	1.50 (38mm)	.265
3/4	1	12U-G46	16x252	5.00	1.00	2.88	.58	1.75 (44mm)	.315
1	1	16U-G46	16x252	4.95	1.06	2.75	.77	1.75 (44mm)	.315
1	1-1/4	16U-G50	20x252	5.00	1.06	2.80	.77	2.00 (51mm)	.315
1-1/4	1-1/4	20U-G50	20x252	5.15	1.15	2.81	1.02	2.00 (51mm)	.315

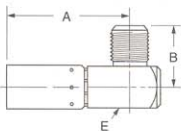
(See page 318 for Code 61 Split Flange Kits.)

†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.

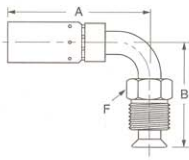
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

SAE 37° Male Rigid 90° Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	SQUARE E
3/8	5/8	06U-X60	7/8-14	2.50	1.10	1.06	.36	11/16
1/2	5/8	08U-X60	7/8-14	2.75	1.13	1.31	.36	3/4
3/4	5/8	12U-X60	7/8-14	4.15	1.32	2.00	.48	1-1/8

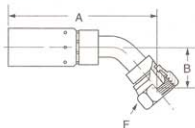
Inverted Male Swivel 90° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	3/16	04U-B63	3/8-24	2.85	1.06	1.38	.12	3/8
1/4	1/4	04U-B64	7/16-24	2.89	1.36	1.38	.15	7/16
1/4	5/16	04U-B65	1/2-20	3.08	1.61	1.63	.21	1/2
3/8	1/4	06U-B64	7/16-24	2.89	1.36	1.44	.15	7/16
3/8	5/16	06U-B65	1/2-20	3.08	1.61	1.50	.21	1/2
3/8	3/8	06U-B66	5/8-18	3.40	1.97	1.88	.24	5/8
3/8	7/16	06U-B67	11/16-18	3.40	1.97	2.00	.24	11/16
1/2	1/2	08U-B68	3/4-18	3.50	2.32	2.06	.35	3/4

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

**British Standard 60°
 Cone (BSPP) Female
 Swivel 45° Tube Elbow**

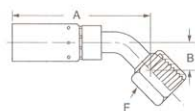


HOSE I.D.	BSPP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04U-44P	G-1/4-19*	3.69	.91	2.25	.15	3/4
3/8	3/8	06U-46P	G-3/8-19*	3.85	.90	2.44	.25	7/8
1/2	1/2	08U-48P	G-1/2-14*	3.88	.87	2.44	.33	1-1/16
5/8	5/8	10U-50P	G-5/8-14*	4.38	.98	2.44	.46	1-3/16
3/4	3/4	12U-52P	G-3/4-14*	5.53	1.31	3.38	.61	1-1/4
1	1	16U-56P	G-1-11*	5.34	1.44	3.13	.76	1-1/2
1-1/4	1-1/4	20U-60P*	G-1 1/4-11*	5.10	1.12	2.75	1.02	1-7/8

*G As Part of Thread Size is ISO Designation for Parallel Thread.

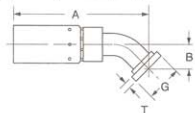
*Part number will crimp in COCT-410-1, T-420-1 and T-440-1 presses only.

**Female FOR-SEAL®
 Swivel 45° Tube Elbow**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04U-L64	9/16-18	3.14	.41	1.68	.16	11/16
1/4	3/8	04U-L66	11/16-16	3.24	.43	1.75	.16	13/16
3/8	3/8	06U-L66	11/16-16	3.26	.43	1.81	.26	13/16
3/8	1/2	06U-L68	13/16-16	3.58	.60	2.15	.26	15/16
1/2	3/8	08U-L66	11/16-16	3.32	.43	1.88	.26	13/16
1/2	1/2	08U-L68	13/16-16	3.56	.60	2.13	.36	15/16
1/2	5/8	08U-L70	1-14	3.67	.65	2.25	.36	1-1/8
5/8	5/8	10U-L70	1-14	4.13	.65	2.19	.46	1-1/8
5/8	3/4	10U-L72	1-3/16-12	4.53	.84	2.63	.48	1-3/8
3/4	5/8	12U-L70	1-14	4.49	.65	2.31	.46	1-1/8
3/4	3/4	12U-L72	1-3/16-12	4.96	.84	2.81	.59	1-3/8
3/4	1	12U-L76	1-7/16-12	5.29	.94	3.13	.76	1-5/8
1	3/4	16U-L72	1-3/16-12	4.99	.83	2.79	.56	1-3/8
1	1	16U-L76	1-7/16-12	5.29	.95	3.06	.76	1-5/8
1	1-1/4	16U-L80	1-11/16-12	5.00	1.07	2.81	.81	1-7/8
1-1/4	1-1/4	20U-L80	1-11/16-12	5.07	1.07	2.75	1.01	1-7/8

**Split Flange 45° Tube
 Elbow - Metric
 (Komatsu, Linkbelt, etc.)**

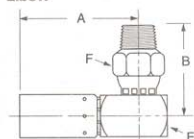


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
5/8	16mm (5/8)	10U-G69	10x252	4.21	.94	2.25	.46	34mm (1.335)	.265

†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.

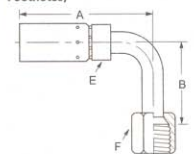
Male Pipe Swivel 90° Elbow



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR†		HOLE DIA.	SQUARE E	HEX F	
				A	B				
1/4	1/4	04U-M04	1/4-18	2.43	1.79	1.00	.15	11/16	13/16
3/8	1/4	06U-M04	1/4-18	2.50	1.83	1.06	.24	11/16	13/16
3/8	3/8	06U-M06	3/8-18	2.50	1.84	1.06	.24	11/16	7/8
1/2	1/2	08U-M08	1/2-14	2.75	1.96	1.31	.35	3/4	7/8
3/4	3/4	12U-M12	3/4-14	4.15	2.46	2.00	.61	1-1/8	1-1/4

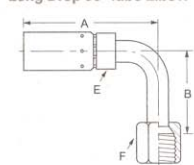
Note: Swivel for installation purposes only.
 (Not for temperatures above 212°F)

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



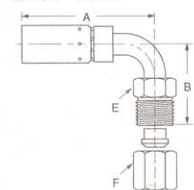
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR†		HOLE DIA.	HEX F	
				A	B			
1/4	1/4	04U-644 ^a	7/16-20	2.95	1.80	1.50	.15	9/16
3/8	1/4	06U-644 ^a	7/16-20	2.89	1.80	1.44	.15	9/16
3/8	3/8	06U-646	9/16-18	3.18	2.18	1.75	.24	11/16
1/2	1/2	08U-648 ^a	3/4-16	3.33	2.43	1.88	.35	7/8
1/2	5/8	08U-650 ^a	7/8-14	3.45	2.57	2.00	.36	1
3/4	3/4	12U-652	1-1/16-12	4.81	3.73	2.63	.58	1-1/4
1	1	16U-656L33	1-5/16-12	5.18	3.37	3.00	.76	1-1/2

SAE 45° Female Swivel Long Drop 90° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR†		HOLE DIA.	HEX F	
				A	B			
3/8	3/8	06U-446	5/8-18	3.19	2.18	1.75	.24	3/4

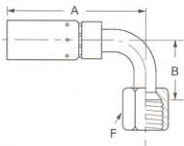
Flareless 90° Tube 7000 Ermeto® Series



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR†		HOLE DIA.	HEX E	HEX F	
				A	B				
3/8	3/8	06U-976	9/16-18	3.14	1.54	1.69	.28	5/8	11/16

For replacement nuts and sleeves see page 299.

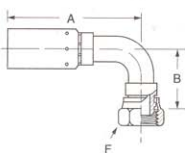
JIC 37° Female Swivel 90° Tube Elbow
(Exceptions Noted, Refer to Footnotes)



HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04U-664 ^a	7/16-20	2.90	.68	1.44	.15	9/16
1/4	5/16	04U-665 ^a	1/2-20	3.09	.77	1.63	.21	5/8
1/4	3/8	04U-666	9/16-18	3.16	.85	1.63	.25	11/16
3/8	1/4	06U-664 ^a	7/16-20	2.85	.68	1.44	.15	9/16
3/8	3/8	06U-666	9/16-18	3.20	.85	1.75	.25	11/16
3/8	1/2	06U-668 ^a	3/4-16	3.27	1.09	1.75	.33	7/8
1/2	1/2	08U-668 ^a	3/4-16	3.33	1.09	1.88	.33	7/8
1/2	5/8	08U-670 ^a	7/8-14	3.92	1.23	2.50	.36	1
5/8	5/8	10U-670 ^a	7/8-14	4.36	1.23	2.44	.46	1
5/8	3/4	10U-672	1-1/16-12	4.96	1.82	3.00	.48	1-1/4
3/4	5/8	12U-670 ^a	7/8-14	4.29	1.23	2.14	.46	1
3/4	3/4	12U-672	1-1/16-12	4.76	1.82	2.63	.58	1-1/4
1	1	16U-676	1-5/16-12	5.03	2.14	2.81	.76	1-1/2
1-1/4	1-1/4	20U-677 #	1-5/8-12	5.31	3.31	3.00	1.01	2

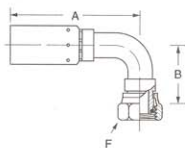
Crimp nut style design.

Female Swivel Universal Seat DIN 90° Tube Elbow
I. Rh. (Light)



HOSE ID	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX F
1/4	8	04U-58D	M14x1.5	2.99	1.48	1.50	.16	11/16
1/4	10	04U-60D	M16x1.5	3.31	1.65	1.81	.16	3/4
3/8	10	06U-60D	M16x1.5	3.29	1.65	1.88	.25	3/4
3/8	12	06U-62D	M18x1.5	3.31	1.65	1.88	.25	7/8
1/2	15	08U-65D	M22x1.5	3.73	1.93	2.31	.36	1-1/16
5/8	18	10U-68D	M26x1.5	4.42	2.28	2.50	.48	1-1/4
3/4	22	12U-72D	M30x2.0	4.97	2.59	2.81	.61	1-7/16
1	28	16U-78D	M36x2.0	5.10	3.11	2.88	.81	1-5/8
1-1/4	35	20U-85D	M45x2.0	5.40	3.12	3.06	1.02	2-3/16

Female 24° Swivel DIN 90° Tube Elbow
s. Rh. DKO (Heavy)



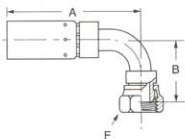
HOSE ID	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/8	12	06U-62E	M20x1.5	3.25	1.53	1.82	.25	1
3/8	14	06U-64E	M22x1.5	3.61	1.63	2.19	.25	1-1/16
1/2	16	08U-66E	M24x1.5	3.69	1.95	2.25	.33	1-1/8
5/8	20	10U-70E	M30x2.0	4.46	2.47	2.50	.48	1-7/16
3/4	25	12U-75E*	M36x2.0	5.27	2.90	3.13	.61	1-5/8
1	30	16U-80E*	M42x2.0	5.19	2.79	3.00	.77	2

*Part number will crimp in COCT-410, T-420 and T-440 presses only.
(Includes O-ring)

†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 45° and 37° connections.

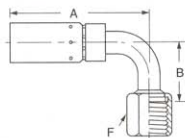
British Standard (BSPP)
 60° Cone Female Pipe
 Swivel 90° Tube Elbow



HOSE I.D.	BSPP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04U-74P	G-1/4-19*	2.99	1.50	1.50	.16	3/4
3/8	3/8	06U-76P	G-3/8-19*	3.26	1.60	1.83	.25	7/8
3/8	1/2	06U-78P	G-1/2-14*	3.06	1.67	1.63	.25	1-1/16
1/2	1/2	08U-78P	G-1/2-14*	3.96	1.89	2.56	.36	1-1/16
1/2	5/8	08U-80P	G-5/8-14*	3.55	1.44	2.13	.36	1-1/4
5/8	5/8	10U-80P	G-5/8-14*	4.15	1.83	2.25	.49	1-3/16
3/4	3/4	12U-82P	G-3/4-14*	5.02	2.49	2.88	.58	1-1/4
1	1	16U-86P*	G-1-11*	5.23	3.09	3.00	.77	1-1/2
1-1/4	1-1/4	20U-90P*	G-1-1/4-11*	5.56	3.51	3.25	1.51	1-7/8

*G As Part of Thread Size is ISO Designation for Parallel Thread.

Female FOR-SEAL®
 Swivel Short Drop 90°
 Elbow

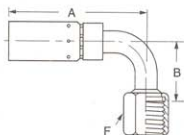


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04U-A24	9/16-18	3.00	.81	1.50	.16	11/16
1/4	3/8	04U-A26	11/16-16	3.13	.90	1.75	.16	13/16
3/8	1/4	06U-A24	9/16-18	3.00	.81	1.56	.16	11/16
3/8	3/8	06U-A26	11/16-16	3.13	.90	1.81	.26	13/16
3/8	1/2	06U-A28	13/16-16	3.33	1.15	1.88	.26	15/16
1/2	3/8	08U-A26	11/16-16	3.13	.90	1.75	.26	13/16
1/2	1/2	08U-A28	13/16-16	3.34	1.15	1.91	.36	15/16
1/2	5/8	08U-A30	1-14	3.46	1.27	2.03	.36	1-1/8
1/2	3/4	08U-A32	1-3/16-12	3.98	1.88	2.56	.36	1-3/8
5/8	5/8	10U-A30	1-14	3.92	1.27	2.00	.46	1-1/8
5/8	3/4	10U-A32	1-3/16-12	4.37	1.88	2.44	.46	1-3/8
3/4	5/8	12U-A30	1-14	4.26	1.27	2.13	.46	1-1/8
3/4	3/4	12U-A32	1-3/16-12	4.86	1.88	2.69	.59	1-3/8
3/4	1	12U-A36	1-7/16-12	5.13	2.21	3.00	.61	1-5/8
1	1	16U-A36	1-7/16-12	5.23	2.21	3.00	.76	1-5/8
1	1-1/4	16U-A40	1-11/16-12	5.24	2.51	3.00	.81	1-7/8
1-1/4	1-1/4	20U-A40	1-11/16-12	5.31	2.51	3.00	1.02	1-7/8
1-1/4	1-1/2	20U-A44	2-12	5.31	2.55	3.00	1.02	2-1/4

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

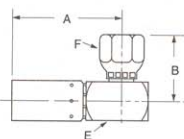
‡ Swivel nuts are universal – both SAE 45° and 37° connections.

**Female FOR-SEAL®
 Swivel Medium Drop
 90° Tube Elbow**



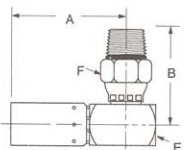
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04U-J34	9/16-18	3.07	1.26	1.59	.16	11/16
1/4	3/8	04U-J36	11/16-16	3.13	1.51	1.69	.16	13/16
1/4	1/2	04U-J38	13/16-16	3.37	1.62	1.88	.16	15/16
3/8	3/8	06U-J36	11/16-16	3.20	1.51	1.69	.24	13/16
3/8	1/2	06U-J38	13/16-16	3.36	1.62	1.93	.25	15/16
1/2	3/8	08U-J36	11/16-16	3.20	1.51	1.72	.24	13/16
1/2	1/2	08U-J38	13/16-16	3.37	1.62	1.94	.33	15/16
1/2	3/4	08U-J42	1-3/16-12	4.02	2.28	2.59	.36	1-3/8
5/8	5/8	10U-J40	1-1/4	4.29	1.85	2.13	.46	1-1/8
3/4	5/8	12U-J40	1-1/4	3.95	1.85	2.00	.46	1-1/8
3/4	3/4	12U-J42	1-3/16-12	4.83	2.28	2.69	.58	1-3/8
1	1	16U-J46	1-7/16-12	5.33	2.78	3.13	.76	1-5/8
1	1-1/4	16U-J50	1-11/16-12	5.24	3.01	3.04	.81	1-7/8
1-1/4	1-1/4	20U-J50	1-11/16-12	5.31	3.09	3.00	1.01	1-7/8

**JIC 37° Female Swivel 90°
 Elbow**



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	SQUARE E	HEX F
1/4	1/4	04U-554	7/16-20	2.43	1.06	.95	.16	11/16	9/16
3/8	3/8	06U-556	9/16-18	2.50	1.18	1.06	.25	11/16	11/16
1/2	1/2	08U-558	3/4-16	2.75	1.35	1.31	.36	3/4	7/8
1/2	5/8	08U-560	7/8-14	2.75	1.34	1.31	.36	3/4	1
3/4	5/8	12U-560	7/8-14	4.15	1.54	2.00	.61	1-1/8	1
3/4	3/4	12U-562	1-1/16-12	4.15	1.62	2.00	.61	1-1/8	1-1/4
3/4	7/8	12U-564	1-3/16-12	4.15	1.68	2.00	.61	1-1/8	1-3/8

**Male Straight Thread
 O-Ring Swivel 90° Elbow**



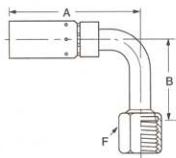
HOSE I.D.	PORT SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	SQUARE E	HEX F
1/4	3/8	04U-R66	9/16-18	2.43	1.68	.94	.16	11/16	7/8
3/8	3/8	06U-R66	9/16-18	2.50	1.68	1.06	.25	11/16	7/8
3/8	1/2	06U-R68	3/4-16	2.50	1.64	1.06	.25	11/16	7/8
3/8	5/8	06U-R70	7/8-14	2.50	1.80	1.06	.25	11/16	1
1/2	1/2	08U-R68	3/4-16	2.75	1.64	1.31	.36	3/4	7/8
1/2	5/8	08U-R70	7/8-14	2.75	1.79	1.31	.36	3/4	1-1/8
1/2	3/4	08U-R72	1-1/16-12	2.75	1.89	1.31	.36	3/4	1-1/4
3/4	3/4	12U-R72	1-1/16-12	4.15	2.24	2.00	.61	1-1/8	1-7/16

(Includes O-ring. For replacement O-ring, see page 254.)
 Note: Swivel for installation purposes only.
 (Not for temperatures above 212°F)

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

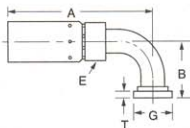
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

**Female FOR-SEAL®
 Swivel Long Drop 90°
 Tube Elbow**



HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04U-A64	9/16-18	3.14	1.80	1.63	.16	11/16
1/4	3/8	04U-A66	11/16-16	3.31	2.13	1.83	.16	13/16
3/8	3/8	06U-A66	11/16-16	3.34	2.13	1.91	.24	13/16
3/8	1/2	06U-A68	13/16-16	3.37	2.51	1.94	.25	15/16
1/2	1/2	08U-A68	13/16-16	3.28	2.51	1.85	.36	15/16
1/2	5/8	08U-A70	1-14	3.49	2.76	2.00	.36	1-1/8
5/8	5/8	10U-A70	1-14	3.95	2.76	2.06	.46	1-1/8
3/4	3/4	12U-A72	1-3/16-12	4.87	3.78	2.72	.59	1-3/8
1	1	16U-A76	1-7/16-12	5.34	4.50	3.13	.76	1-5/8
1-1/4	1-1/4	20U-A80	1-11/16-12	5.31	5.09	3.00	1.01	1-7/8
1-1/4	1-1/2	20U-A84	2-12	5.31	5.54	3.00	1.01	2-1/4

**Split Flange 90° Tube Elbow
 (SAE Code 61)**

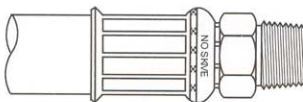


HOSE ID	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T
1/2	1/2	08U-G71	8x252	3.63	1.63	2.19	.41	1.19 (30mm)	.265
3/4	3/4	12U-G72	12x252	4.75	2.13	2.63	.58	1.50 (38mm)	.265
3/4	1	12U-G76	16x252	4.78	2.13	2.56	.58	1.75 (44mm)	.315
1	1	16U-G76	16x252	5.39	2.38	3.19	.77	1.75 (44mm)	.315
1	1-1/4	16U-G80	20x252	5.39	2.38	3.19	.77	2.00 (51mm)	.315
1-1/4	1-1/4	20U-G80	20x252	5.29	2.62	3.00	1.02	2.00 (51mm)	.315
1-1/4	1-1/2	20U-G84	24x252	5.29	2.68	3.00	1.02	2.38 (60mm)	.315

(For Split Flange Kits, see page 317-320.)

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

Hose End 430 'U' Series



⚠ Refer to important safety information on page 3.

Typical Application: Very high pressure hydraulic lines subjected to pressure surges and flexing. Some applications include mining, construction, farming, and high performance industrial equipment.

Compatible Hose: H039; H115; H145; H245; H425; H350; H430

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See page 14 for working pressure ratings for hose end configurations.

Material: Low Carbon Steel

Plating: Zinc; yellow dichromate finish

Advantages: Excellent selection of no-skive hose ends. Can be used with Caterpillar, John Deere, and many major manufacturers of heavy equipment.

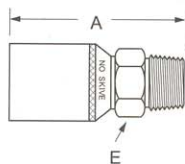
Assemble With: T-410-1 Coll-O-Crimp II, T-420-1 Coll-O-Crimp Super I, T-440-1 Coll-O-Crimp II Plus or T-480.

Ordering Information: Order individually by catalog number. O-rings not supplied with split flange hose ends. Order o-rings by catalog number; reference individual hose end listings for details.

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

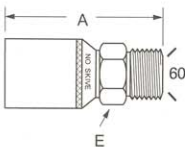
Label Set: FS-3100

Male Pipe (NPTF) Rigid



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E
1/2	1/2	43008U-108	1/2-14	3.56	1.69	.34	7/8
1/2	3/4	43008U-112	3/4-14	3.29	1.38	.34	1-1/16
3/4	3/4	43012U-112	3/4-14	3.68	1.69	.61	1-1/16
3/4	1	43012U-116	1-11-1/2	3.77	1.75	.61	1-3/8
1	3/4	43016U-112	3/4-14	3.86	1.81	.71	1-1/4
1	1	43016U-116	1-11-1/2	4.05	2.00	.81	1-3/8
1	1-1/4	43016U-120	1-1/4-11-1/2	4.08	2.06	.81	1-11/16
1-1/4	1-1/4	43020U-120	1-1/4-11-1/2	4.58	2.31	1.02	1-11/16
1-1/2	1-1/2	43024U-124	1-1/2-11-1/2	4.87	2.38	1.25	2
2	2	43032U-132	2-11-1/2	5.51	2.69	1.69	2-1/2

British Standard 60° Cone (BSPP) Male Pipe Rigid



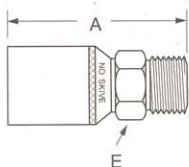
HOSE I.D.	BSPP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E
3/4	3/4	43012U-P62	G-3/4-14*	3.56	1.56	.61	1-1/8
1	1	43016U-P66	G-1-11*	3.73	1.69	.81	1-3/8
1-1/4	1-1/4	43020U-P67	G-1-1/4-11*	4.41	2.13	1.02	1-3/4

*G As Part of Thread Size is ISO Designation for Parallel Thread.

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.

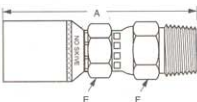
FOR-SEAL® Male Rigid



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR [†]	HOLE DIA.	HEX E
1/2	1/2	43008U-E68	13/16-16	3.24	1.31	.34	7/8
3/4	3/4	43012U-E72	1-3/16-12	3.57	1.56	.61	1-1/4
1	1	43016U-E76	1-7/16-12	3.55	1.50	.81	1-1/2
1-1/4	1-1/4	43020U-E80	1-11/16-12	3.90	1.56	1.04	1-3/4

Does not include O-Ring. See page 267 for O-Ring.

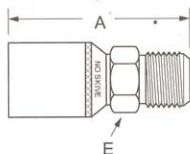
Male Pipe Swivel



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR [†]	HOLE DIA.	HEX E	HEX F
1	1	43016U-J16	1-11	5.02	3.00	.78	1-1/4	1-3/8

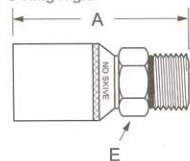
Note: Swivel for installation purposes only.
(Not for temperatures above 212°F)

SAE 37° Male Rigid



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR [†]	HOLE DIA.	HEX E
1/2	1/2	43008U-508	3/4-16	3.50	1.63	.34	7/8
1/2	5/8	43008U-510	7/8-14	3.30	1.38	.34	1
3/4	3/4	43012U-512	1-1/16-12	3.74	1.75	.61	1-1/8
3/4	7/8	43012U-514	1-3/16-12	3.81	1.81	.61	1-1/4
3/4	1	43012U-516	1-5/16-12	4.02	2.06	.61	1-3/8
1	1	43016U-516	1-5/16-12	4.02	2	.81	1-3/8
1	1-1/4	43016U-520	1-5/8-12	3.84	1.81	.81	1-11/16
1-1/4	1-1/4	43020U-520	1-5/8-12	4.57	2.31	1.02	1-11/16
1-1/2	1-1/2	43024U-524	1-7/8-12	4.95	2.50	1.25	2
2	2	43032U-532	2-1/2-12	5.57	2.75	1.69	2-5/8

Male Straight Thread O-Ring Rigid



HOSE I.D.	PORT SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR [†]	HOLE DIA.	HEX E
1	1	43016U-P16	1-5/16-12	3.45	1.44	.81	1-1/2

(Includes O-Ring)
For replacement O-Ring see page 254

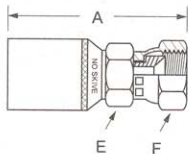
COLLOCRIMP

430 'U' Series

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

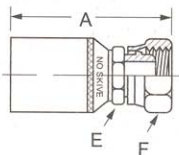
Ⓐ Swivel nuts are universal – both SAE 45° and 37° connections.

JIC 37° Female Swivel (Refer to Footnotes)



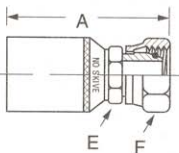
HOSE LD	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/2	3/8	43008U-606	9/16-18	3.56	1.69	.34	13/16	11/16
1/2	1/2	43008U-608 [Ⓐ]	3/4-16	3.67	1.75	.34	13/16	7/8
1/2	5/8	43008U-610 [Ⓐ]	7/8-14	3.72	1.81	.34	13/16	1
1/2	3/4	43008U-612	1-1/16-12	3.76	1.88	.34	1	1-1/4
3/4	3/4	43012U-612	1-1/16-12	4.08	2.06	.61	1	1-1/4
3/4	7/8	43012U-614	1-3/16-12	3.90	1.88	.61	1-1/4	1-3/8
3/4	1	43012U-616	1-5/16-12	4.01	2.00	.61	1-1/4	1-1/2
1	3/4	43016U-612	1-1/16-12	4.19	2.19	.61	1-1/4	1-1/4
1	1	43016U-616	1-5/16-12	4.28	2.25	.81	1-1/4	1-1/2
1	1-1/4	43016U-620	1-5/8-12	4.12	2.06	.81	1-5/8	2
1-1/4	1-1/4	43020U-620	1-5/8-12	4.87	2.63	1.02	1-11/16	2
1-1/4	1-1/2	43020U-624	1-7/8-12	5.03	2.75	1.02	1-7/8	2-1/4
1-1/2	1-1/2	43024U-624	1-7/8-12	5.29	2.81	1.25	2	2-1/4
2	2	43032U-632	2-1/2-12	6.04	3.25	1.69	2-1/2	3

Female Swivel DIN Universal Seat I. Rh. (Light) (DIN 3901/3902)



HOSE LD	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E	HEX F
3/4	22	43012U-22C	M30x2.0	4.12	2.13	.61	1-1/8	1-7/16

Female Swivel DIN 24° Seat s. Rh. DKO (Heavy)

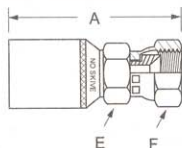


HOSE LD	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX E	HEX F
3/4	20	43012U-70C	M30x2.0	3.68	1.69	.61	1-1/8	1-7/16
3/4	25	43012U-75C	M36x2.0	4.14	2.13	.61	1-1/4	1-5/8
1	30	43016U-80C	M42x2.0	4.07	2.00	.81	1-5/8	2
1-1/4	30	43020U-80C	M42x2.0	4.32	2.00	1.02	1-5/8	2

(Includes O-Ring)

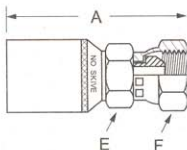
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Female Swivel 30° Flare Metric Thread
(Komatsu, Linkbelt, etc.)



HOSE I.D.	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/2	43008U-22K	M22x1.5	3.72	1.81	.34	7/8	1
3/4	43012U-30K	M30x1.5	3.96	1.94	.61	1-1/8	1-3/8
1	43016U-33K	M33x1.5	4.27	2.25	.81	1-1/4	1-1/2
1-1/4	43020U-36K	M36x1.5	5.19	2.88	.92	1-5/8	1-3/4

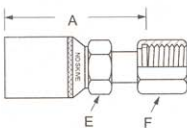
British Standard (BSPP) 60° Cone Female Pipe Swivel



HOSE I.D.	BSP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/2	1/2	43008U-358	G-1/2-14*	3.78	1.88	.34	7/8	1-1/16
3/4	3/4	43012U-362	G-3/4-14*	4.09	2.06	.61	1	1-1/4
1	1	43016U-366	G-1-11*	4.29	2.25	.81	1-1/4	1-1/2
1-1/4	1-1/4	43020U-370	G-1-1/4-11*	4.76	2.50	1.02	1-5/8	1-7/8

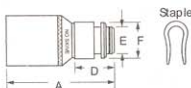
*G As Part of Thread Size is ISO Designated for Parallel Thread.

Female FOR-SEAL® Swivel Straight



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/2	1/2	43008U-S68	13/16-16	3.75	1.88	.34	13/16	15/16
1/2	5/8	43008U-S70	1-1/4	3.86	2.00	.34	13/16	1-1/8
3/4	5/8	43012U-S70	1-1/4	4.06	2.06	.45	1	1-1/8
3/4	3/4	43012U-S72	1-3/16-12	4.16	2.19	.55	1	1-3/8
3/4	1	43012U-S76	1-7/16-12	4.15	2.13	.55	1	1-5/8
1	1	43016U-S76	1-7/16-12	4.68	2.69	.76	1-1/4	1-5/8
1	1-1/4	43016U-S80	1-11/16-12	4.33	2.31	.81	1-1/2	1-7/8
1-1/4	1-1/4	43020U-S80	1-11/16-12	4.51	2.25	1.02	1-5/8	1-7/8
1-1/2	1-1/2	43024U-S84	2-12	4.77	2.31	1.25	2	2-1/4

READY LOK® Male Connector
(For Deep Mining Markets)

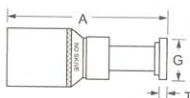


HOSE I.D.	CONNECTION SIZE	CATALOG NUMBER	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	LENGTH D	DIA. E	DIA. F
1/2	1/2	43008U-08S	3.31	1.43	.34	.94	.70	.94
3/4	3/4	43012U-12S	3.53	1.50	.61	1.14	.94	1.14
1	1	43016U-16S	3.76	1.75	.81	1.34	1.21	1.53
1-1/4	1-1/4	43020U-20S	4.01	1.75	1.02	1.34	1.49	1.80
1-1/2	1-1/2	43024U-24S	5.06	2.59	1.25	2.51	1.85	2.17

(For Ready-Lok® Staple, O-Ring and backup ring reference page 316.)

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

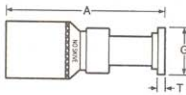
Split Flange Straight
(SAE Code 61)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
1/2	1/2	43008U-G08	8x252	4.18	2.25	.34	1.19 (30mm)	.265
1/2	3/4	43008U-G12	12x252	4.24	2.31	.34	1.50 (38mm)	.265
3/4	3/4	43012U-G12	12x252	4.16	2.13	.56	1.50 (38mm)	.265
3/4	1	43012U-G16	16x252	4.16	2.13	.56	1.75 (44mm)	.315
3/4	1-1/4	43012U-G20	20x252	4.16	2.13	.56	2.00 (51mm)	.315
1	1	43016U-G16	16x252	4.40	2.38	.76	1.75 (44mm)	.315
1	1-1/4	43016U-G20	20x252	4.40	2.38	.76	2.00 (51mm)	.315
1	1-1/2	43016U-G24	24x252	4.46	2.44	.76	2.38 (60mm)	.315
1-1/4	1-1/4	43020U-G20	20x252	5.01	2.75	1.02	2.00 (51mm)	.315
1-1/4	1-1/2	43020U-G24	24x252	5.07	2.81	1.02	2.38 (60mm)	.315
1-1/4	1-1/2	43020U-G24L64	24x252	9.60	7.31	1.01	2.38 (60mm)	.315
1-1/4	2	43020U-G32	32x252	5.13	2.88	1.02	2.81 (71mm)	.375
1-1/2	1-1/2	43024U-G24	24x252	5.63	3.13	1.25	2.38 (60mm)	.315
1-1/2	2	43024U-G32	32x252	5.83	3.31	1.25	2.81 (71mm)	.375
2	1-1/2	43032U-G24	24x252	6.23	3.38	1.56	2.38 (60mm)	.315
2	2	43032U-G32	32x252	6.08	3.25	1.56	2.81 (71mm)	.375

(For Split Flange Kits, see page 317-320.)

Split Flange Straight
(SAE Code 62)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
1/2	1/2	43008U-D08	8x252	4.25	2.38	.34	1.25 (32mm)	.345
1/2	3/4	43008U-D12	12x252	4.27	2.38	.34	1.62 (41mm)	.345
3/4	3/4	43012U-D12	12x252	4.19	2.19	.56	1.62 (41mm)	.345
3/4	1	43012U-D16	16x252	4.22	2.19	.56	1.88 (48mm)	.375
1	1	43016U-D16	16x252	4.46	2.44	.76	1.88 (48mm)	.375
1	1-1/4	43016U-D20	20x252	4.49	2.44	.76	2.12 (54mm)	.405
1-1/4	1-1/4	43020U-D20	20x252	5.10	2.81	1.02	2.12 (54mm)	.405
1-1/4	1-1/2	43020U-D24	24x252	5.21	2.94	1.02	2.50 (64mm)	.495
1-1/2	1-1/2	43024U-D24	24x252	5.63	3.13	1.25	2.50 (64mm)	.495
2	2	43032U-D32	32x252	7.18	4.38	1.56	3.12 (79mm)	.495

(For Split Flange Kits, see page 317-320.)

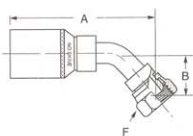
COLL-CRIMP

430 'U' 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.

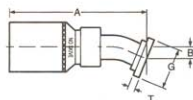
British Standard 60° Cone (BSPP) Female Swivel 45° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/4	3/4	43012U-52P	G-3/4-14*	5.33	1.24	3.31	.56	1-1/4
1	1	43016U-56P	G-1-11*	5.08	1.36	3.06	.76	1-1/2

*G as part of Thread is ISO Designation for Parallel Thread.

Split Flange 22-1/2° Tube Elbow (SAE Code 61)

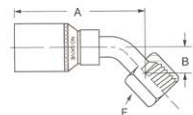


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINA
1/2	1/2	43008U-H01	8x252	4.45	.38	2.56	.34	1.19 (30mm)	.265
1/2	3/4	43008U-H02	12x252	4.50	.40	2.63	.34	1.50 (38mm)	.265
3/4	3/4	43012U-H02	12x252	4.81	.44	2.81	.56	1.50 (38mm)	.265
3/4	1	43012U-H03	16x252	4.81	.44	2.81	.56	1.75 (44mm)	.315
1	1	43016U-H03	16x252	5.09	.45	3.06	.76	1.75 (44mm)	.315
1	1-1/4	43016U-H04	20x252	5.09	.45	3.06	.76	2.00 (51mm)	.315
1-1/4	1-1/4	43020U-H04	20x252	5.16	.50	2.88	1.02	2.00 (51mm)	.315
1-1/4	1-1/2	43020U-H05	24x252	5.21	.52	2.94	1.02	2.38 (60mm)	.315
1-1/2	1-1/2	43024U-H05	24x252	6.09	.67	3.63	1.25	2.38 (60mm)	.315
1-1/2	2	43024U-H06	32x252	6.18	.72	3.72	1.25	2.81 (71mm)	.375
2	2	43032U-H06	32x252	7.67	.94	4.88	1.56	2.81 (71mm)	.375

(For Split Flange Kits, see page 317-320.)

JIC 37° Female Swivel 45° Tube Elbow

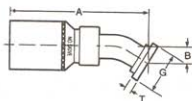
(Refer to Footnotes)



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/2	1/2	43008U-688 ^a	3/4-16	4.08	.55	2.19	.34	7/8
1/2	5/8	43008U-690 ^a	7/8-14	4.28	.63	2.38	.34	1
3/4	3/4	43012U-692	1-1/16-12	4.70	.78	2.69	.56	1-1/4
1	1	43016U-696	1-5/16-12	5.67	1.53	3.84	.76	1-1/2

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

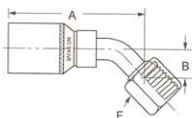
Split Flange 30° Tube Elbow (SAE Code 61)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	HOSE CUT-OFF FACTOR†		HOLE DIA.	DIA. G	T NOMINAL	
				A	B				
1/2	1/2	43008U-H21	8x252	4.40	.50	2.50	.34	1.19 (30mm)	.265
1/2	3/4	43008U-H22	12x252	4.45	.53	2.56	.34	1.50 (38mm)	.265
3/4	3/4	43012U-H22	12x252	4.75	.59	2.75	.56	1.50 (38mm)	.265
3/4	1	43012U-H23	16x252	4.75	.59	2.75	.56	1.75 (44mm)	.315
1	1	43016U-H23	16x252	5.09	.64	3.06	.76	1.75 (44mm)	.315
1	1-1/4	43016U-H24	20x252	5.01	.64	3.00	.76	2.00 (51mm)	.315
1-1/4	1-1/4	43020U-H24	20x252	5.33	.72	3.06	1.02	2.00 (51mm)	.315
1-1/4	1-1/2	43020U-H25	24x252	5.38	.75	3.13	1.02	2.38 (60mm)	.315
1-1/2	1-1/2	43024U-H25	24x252	6.33	.91	3.81	1.25	2.38 (60mm)	.315
1-1/2	2	43024U-H26	32x252	6.50	1.01	4.00	1.25	2.81 (71mm)	.375
2	2	43032U-H26	32x252	7.88	1.31	5.44	1.56	2.81 (71mm)	.375

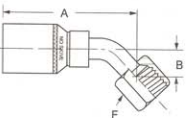
(For Split Flange Kits, see page 317-320.)

Female FOR-SEAL® Swivel 45° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR†		HOLE DIA.	HEX F
				A	B		
1/2	1/2	43008U-L68	13/16-16	4.16	.59	2.25	.34 15/16
1/2	5/8	43008U-L70	1-14	4.48	.65	2.56	.34 1-1/8
3/4	3/4	43012U-L72	1-3/16-12	4.80	.84	2.81	.56 1-3/8
1	1	43016U-L76	1-7/16-12	5.11	.95	3.06	.76 1-5/8
1-1/4	1-1/4	43020U-L80	1-11/16-12	4.97	1.07	2.75	1.01 1-7/8
1-1/2	1-1/2	43024U-L84	2-12	5.98	1.07	3.50	1.25 2-1/4

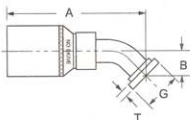
JIC 37° Female Swivel 60° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR†		HOLE DIA.	HEX F
				A	B		
1/2	5/8	43008U-C60	7/8-14	4.48	1.00	2.63	.34 1
3/4	3/4	43012U-C62	1-1/16-12	5.12	1.71	3.13	.56 1-1/4
1	1	43016U-C66	1-5/16-12	5.74	1.53	3.69	.76 1-1/2

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

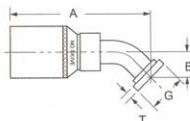
Split Flange 45° Tube Elbow (SAE Code 61)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	HOSE CUT-OFF FACTOR		HOLE DIA.	DIA. G	T NOMINAL	
				A	B				
1/2	1/2	43008U-G41	8x252	4.51	.78	2.63	.34	1.19 (30mm)	.265
1/2	3/4	43008U-G42	12x252	4.55	.82	2.63	.34	1.50 (38mm)	.265
1/2	1	43008U-G46	16x252	4.86	.82	3.00	.34	1.75 (44mm)	.315
3/4	3/4	43012U-G42	12x252	4.92	1.00	2.94	.56	1.50 (38mm)	.265
3/4	1	43012U-G46	16x252	4.92	1.00	2.94	.56	1.75 (44mm)	.315
1	1	43016U-G46	16x252	4.82	1.06	2.81	.76	1.75 (44mm)	.315
1	1-1/4	43016U-G50	20x252	4.82	1.06	2.81	.76	2.00 (51mm)	.315
1-1/4	1-1/4	43020U-G50	20x252	5.10	1.15	2.81	1.01	2.00 (51mm)	.315
1-1/4	1-1/2	43020U-G54	24x252	5.14	1.19	2.88	1.01	2.38 (60mm)	.315
1-1/2	1-1/2	43024U-G54	24x252	6.32	1.41	3.84	1.25	2.38 (60mm)	.315
1-1/2	2	43024U-G62	32x252	6.46	1.55	4.00	1.25	2.81 (71mm)	.375
2	2	43032U-G62	32x252	8.34	2.08	5.50	1.56	2.81 (79mm)	.375

(For Split Flange Kits, see page 317-320.)

Split Flange 45° Tube Elbow (SAE Code 62)

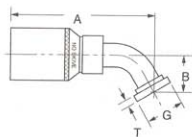


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	HOSE CUT-OFF FACTOR		HOLE DIA.	DIA. G	T NOMINAL	
				A	B				
1/2	1/2	43008U-D41	8x252	4.82	.94	2.94	.34	1.25 (32mm)	.345
1/2	3/4	43008U-D42	12x252	4.82	1.00	2.94	.34	1.62 (41mm)	.345
3/4	3/4	43012U-D42	12x252	5.19	1.27	3.19	.56	1.62 (41mm)	.345
3/4	1	43012U-D46	16x252	5.21	1.29	3.19	.56	1.88 (48mm)	.375
1	1	43016U-D46	16x252	5.57	1.34	3.56	.76	1.88 (48mm)	.375
1	1-1/4	43016U-D50	20x252	5.56	1.44	3.50	.76	2.12 (54mm)	.405
1-1/4	1-1/4	43020U-D50	20x252	6.60	1.68	4.31	1.01	2.12 (54mm)	.405
1-1/4	1-1/2	43020U-D54	24x252	6.67	1.75	4.38	1.01	2.50 (64mm)	.495
1-1/2	1-1/2	43024U-D54	24x252	7.25	1.86	4.75	1.25	2.50 (64mm)	.495
2	2	43032U-D62	32x252	8.74	2.25	5.94	1.56	3.12 (79mm)	.495

(For Split Flange Kits, see page 317-320.)

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

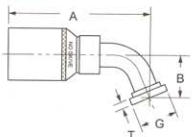
Split Flange 60° Tube Elbow (SAE Code 61)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	HOSE CUT-OFF FACTOR†		HOLE DIA.	DIA. G	T NOMINAL	
				A	B				
1/2	1/2	43008U-H51	8x252	4.59	1.05	2.69	.34	1.19 (30mm)	.265
1/2	3/4	43008U-H52	12x252	4.62	1.10	2.75	.34	1.50 (38mm)	.265
3/4	3/4	43012U-H52	12x252	4.98	1.38	2.94	.56	1.50 (38mm)	.265
3/4	1	43012U-H53	16x252	4.98	1.38	2.94	.56	1.75 (44mm)	.315
1	1	43016U-H53	16x252	5.47	1.51	3.44	.76	1.75 (44mm)	.315
1	1-1/4	43016U-H54	20x252	5.58	1.51	3.56	.76	2.00 (51mm)	.315
1-1/4	1-1/4	43020U-H54	20x252	5.57	1.69	3.31	1.01	2.00 (51mm)	.315
1-1/4	1-1/2	43020U-H55	24x252	5.60	1.74	3.31	1.01	2.38 (60mm)	.315
1-1/2	1-1/2	43024U-H55	24x252	6.51	2.08	4.00	1.25	2.38 (60mm)	.315
1-1/2	2	43024U-H56	32x252	6.61	2.25	4.13	1.25	2.81 (71mm)	.375
2	2	43032U-H56	32x252	8.50	3.00	5.69	1.56	2.81 (71mm)	.375

(For Split Flange Kits, see page 317-320.)

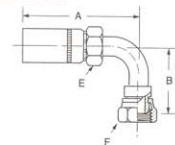
Split Flange 67-1/2° Tube Elbow (SAE Code 61)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	HOSE CUT-OFF FACTOR†		HOLE DIA.	DIA. G	T NOMINAL	
				A	B				
1/2	1/2	43008U-H61	8x252	4.40	1.25	2.50	.34	1.19 (30mm)	.265
1/2	3/4	43008U-H62	12x252	4.46	1.25	2.56	.34	1.50 (38mm)	.265
1/2	1	43008U-H63	16x252	4.69	1.25	2.81	.34	1.75 (44mm)	.315
3/4	3/4	43012U-H62	12x252	4.99	1.59	3.00	.56	1.50 (38mm)	.265
3/4	1	43012U-H63	16x252	4.99	1.59	3.00	.56	1.75 (44mm)	.315
3/4	1-1/4	43012U-H64	20x252	4.99	1.59	3.00	.56	2.00 (51mm)	.315
1	1	43016U-H63	16x252	5.25	1.76	3.19	.76	1.75 (44mm)	.315
1	1-1/4	43016U-H64	20x252	5.25	1.76	3.19	.76	2.00 (51mm)	.315
1-1/4	1-1/4	43020U-H64	20x252	5.55	1.94	3.25	1.01	2.00 (51mm)	.315
1-1/4	1-1/2	43020U-H65	24x252	5.57	2.00	3.30	1.01	2.38 (60mm)	.315
1-1/2	1-1/2	43024U-H65	24x252	6.50	2.40	4.00	1.25	2.38 (60mm)	.315
1-1/2	2	43024U-H66	32x252	6.58	2.58	4.13	1.25	2.81 (71mm)	.375
2	2	43032U-H66	32x252	8.39	3.40	5.56	1.56	2.81 (71mm)	.375

(For Split Flange Kits, see page 317-320.)

British Standard (BSPP) 60° Cone Female Pipe Swivel 90° Elbow



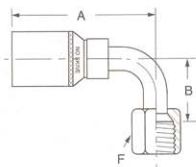
HOSE I.D.	BSPP SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR†		HOLE DIA.	HEX E	HEX F	
				A	B				
3/4	3/4	43012U-82P	G-3/4-14*	4.58	2.46	2.97	.56	1-1/8	1-1/4
1	1	43016U-86P	G-1-11*	5.05	3.09	3.03	.76	1-1/4	1-1/2

*G As Part of Thread Size is ISO Designation for Parallel Thread.

†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.

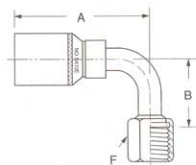
JIC 37° Female Swivel 90° Tube Elbow
(Refer to Footnotes)



HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/2	1/2	43008U-648L36 ^a	3/4-16	4.04	3.60	2.13	.34	7/8
1/2	1/2	43008U-648L45 ^a	3/4-16	4.04	4.50	2.13	.34	7/8
1/2	1/2	43008U-668 ^a	3/4-16	3.85	1.09	1.94	.34	7/8
1/2	5/8	43008U-650 ^a	7/8-14	4.14	2.57	2.25	.34	1
1/2	5/8	43008U-670 ^a	7/8-14	4.11	1.23	2.19	.34	1
3/4	3/4	43012U-652	1-1/16-12	4.65	3.62	2.63	.56	1-1/4
3/4	3/4	43012U-672	1-1/16-12	4.65	2.50	2.63	.56	1-1/4
1	1	43016U-656L33	1-5/16-12	5.00	3.37	3.00	.76	1-1/2
1	1	43016U-656L56	1-5/16-12	5.00	5.62	3.00	.76	1-1/2
1	1	43016U-676	1-5/16-12	5.27	3.00	3.25	.76	1-1/2
1	1	43016U-676L22	1-5/16-12	4.83	2.22	2.81	.76	1-1/2
1-1/4	1-1/4	43020U-677 ⁺	1-5/8-12	5.21	3.31	3.00	1.01	2
1-1/2	1-1/2	43024U-678 ⁺	1-7/8-12	6.11	3.95	3.62	1.19	2-1/4

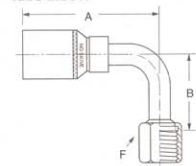
⁺Crimp style swivel nut.

Female FOR-SEAL® Swivel 90° Short Drop Tube Elbow



HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/2	1/2	43008U-A28	13/16-16	3.90	1.15	2.00	.34	15/16
1/2	5/8	43008U-A30	1-14	4.21	1.27	2.31	.34	1-1/8
3/4	5/8	43012U-A30	1-14	4.24	1.27	2.25	.46	1-1/8
3/4	3/4	43012U-A32	1-3/16-12	4.78	1.88	2.75	.56	1-3/8
1	1	43016U-A36	1-7/16-12	4.95	2.21	2.93	.76	1-5/8
1-1/4	1-1/4	43020U-A40	1-11/16-12	5.26	2.51	3.00	1.02	1-7/8
1-1/4	1-1/2	43020U-A44	2-12	5.26	2.55	3.00	1.01	2-1/4
1-1/2	1-1/2	43024U-A44	2-12	6.11	2.70	3.63	1.25	2-1/4

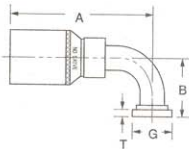
Female FOR-SEAL® Swivel Long Drop 90° Tube Elbow



HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/2	1/2	43008U-A68	13/16-16	4.32	2.51	2.44	.34	15/16
1/2	5/8	43008U-A70	1-14	4.61	2.76	2.75	.34	1-1/8
3/4	3/4	43012U-A72	1-3/16-12	4.73	3.78	2.75	.56	1-3/8
1	1	43016U-A76	1-7/16-12	5.16	4.50	3.13	.76	1-5/8
1-1/4	1-1/4	43020U-A80	1-11/16-12	5.26	5.09	3.00	1.01	1-7/8
1-1/4	1-1/2	43020U-A84	2-12	5.26	5.54	3.00	1.01	2-1/4
1-1/2	1-1/2	43024U-A84	2-12	6.11	5.54	3.63	1.25	2-1/4

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

Split Flange 90° Tube Elbow
(SAE Code 61)

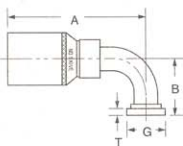


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR	HOLE DIA.	DIA. G	T
1/2	1/2	43008U-G71	8x252	4.18	1.63	2.25	.34	1.19 (30mm)	.265
1/2	1/2	43008U-G71L32	8x252	4.04	3.20	2.13	.34	1.19 (30mm)	.265
1/2	3/4	43008U-G72	12x252	4.53	1.68	2.63	.34	1.50 (38mm)	.265
1/2	1	43008U-G76	16x252	4.63	1.68	2.75	.34	1.75 (44mm)	.315
3/4	3/4	43012U-G72	12x252	4.65	2.12	2.63	.56	1.50 (38mm)	.265
3/4	3/4	43012U-G72L37	12x252	4.65	3.75	2.63	.56	1.50 (38mm)	.265
3/4	3/4	43012U-G72L50	12x252	4.74	5.00	2.75	.56	1.50 (38mm)	.265
3/4	1	43012U-G76	16x252	4.65	2.12	2.63	.56	1.75 (44mm)	.315
3/4	1	43012U-G76L31	16x252	4.65	3.12	2.63	.56	1.75 (44mm)	.315
3/4	1-1/4	43012U-G80	20x252	5.65	2.12	3.63	.56	2.00 (51mm)	.315
1	1	43016U-G76	16x252	5.21	2.38	3.19	.76	1.75 (44mm)	.315
1	1	43016U-G76L21	16x252	5.06	2.12	3.06	.76	1.75 (44mm)	.315
1	1	43016U-G76L46	16x252	5.15	4.62	3.13	.76	1.75 (44mm)	.315
1	1-1/4	43016U-G80	20x252	5.21	2.38	2.94	.76	2.00 (51mm)	.315
1	1-1/4	43016U-G80L46	20x252	5.12	4.62	3.13	.76	2.00 (51mm)	.315
1	1-1/2	43016U-G84	24x252	5.15	2.44	3.13	.76	2.38 (60mm)	.315
1-1/4	1-1/4	43020U-G80	20x252	5.26	2.62	3.00	1.01	2.00 (51mm)	.315
1-1/4	1-1/4	43020U-G80L31	20x252	5.26	3.12	3.00	1.02	2.00 (51mm)	.315
1-1/4	1-1/4	43020U-G80L40	20x252	5.26	4.00	3.00	1.02	2.00 (51mm)	.315
1-1/4	1-1/4	43020U-G80L51	20x252	5.26	5.12	3.00	1.02	2.00 (51mm)	.315
1-1/4	1-1/4	43020U-G80L66	20x252	5.26	6.62	3.00	1.02	2.00 (51mm)	.315
1-1/4	1-1/2	43020U-G84	24x252	5.51	2.68	3.25	1.01	2.38 (60mm)	.315
1-1/4	1-1/2	43020U-G84L46	24x252	5.26	4.68	3.00	1.02	2.38 (60mm)	.315
1-1/2	1-1/2	43024U-G84	24x252	6.03	3.12	3.56	1.25	2.38 (60mm)	.315
1-1/2	1-1/2	43024U-G84L58	24x252	6.11	5.80	3.63	1.21	2.38 (60mm)	.315
1-1/2	1-1/2	43024U-G84L67	24x252	6.11	6.70	3.63	1.21	2.38 (60mm)	.315
1-1/2	2	43024U-G92	32x252	6.03	3.32	3.56	1.25	2.81 (71mm)	.375
1-1/2	2	43024U-G92L45	32x252	6.11	4.50	3.63	1.21	2.81 (71mm)	.375
1-1/2	2	43024U-G92L67	32x252	6.11	6.70	3.63	1.21	2.81 (71mm)	.375
2	1-1/2	43032U-G84	24x252	6.63	3.12	3.81	1.19	2.38 (60mm)	.315
2	2	43032U-G92	32x252	7.95	4.64	5.13	1.56	2.81 (71mm)	.375
2	2	43032U-G92L65	32x252	7.95	6.50	5.13	1.56	2.81 (71mm)	.375
2	2	43032U-G92L80	32x252	7.95	8.00	5.13	1.56	2.81 (71mm)	.375

(For Split Flange Kits, see page 317-320.)

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

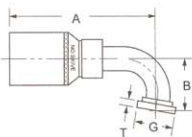
Split Flange 90° Tube Elbow (SAE Code 62)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR	HOLE DIA.	DIA. G	T NOMINAL
1/2	1/2	43008U-D71	8x252	4.49	1.72	2.56	.34	1.25 (32mm)	.345
1/2	3/4	43008U-D72	12x252	4.53	1.90	2.63	.34	1.62 (41mm)	.345
3/4	3/4	43012U-D72	12x252	4.84	2.41	2.81	.56	1.62 (41mm)	.345
3/4	1	43012U-D76	16x252	4.84	2.70	2.81	.56	1.88 (48mm)	.375
1	1	43016U-D76	16x252	5.42	2.75	3.38	.76	1.88 (48mm)	.375
1	1-1/4	43016U-D80	20x252	5.31	2.90	3.25	.76	2.12 (54mm)	.405
1-1/4	1-1/4	43020U-D80	20x252	5.79	3.24	3.50	1.01	2.12 (54mm)	.405
1-1/4	1-1/2	43020U-D84	24x252	5.79	3.35	3.50	1.01	2.50 (64mm)	.405
1-1/2	1-1/2	43024U-D84	24x252	6.11	3.70	3.63	1.25	2.50 (64mm)	.495
1-1/2	2	43024U-D92	32x252	6.11	4.26	3.63	1.25	3.12 (79mm)	.495
2	2	43032U-D92	32x252	7.81	4.84	5.00	1.56	3.12 (79mm)	.495

(For Split Flange Kits, see page 317-320.)

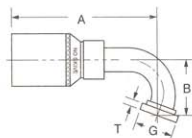
Split Flange 100° Tube Elbow (SAE Code 61)



HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR	HOLE DIA.	DIA. G	T NOMINAL
3/4	3/4	43012U-H72	12x252	4.80	2.33	2.81	.61	1.50 (38mm)	.265
3/4	1	43012U-H73	16x252	4.80	2.33	2.81	.61	1.75 (44mm)	.315

(For Split Flange Kits, see page 317-320.)

Split Flange 110° Tube Elbow (SAE Code 61)

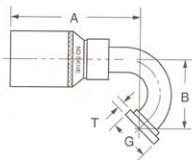


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR	HOLE DIA.	DIA. G	T NOMINAL
1	1	43016U-H83	16x252	4.46	2.89	2.44	.76	1.75 (44mm)	.315
1-1/4	1-1/4	43020U-H84	20x252	4.82	3.12	2.56	1.01	2.00 (51mm)	.315
1-1/4	1-1/2	43020U-H85	24x252	5.24	3.17	2.94	1.01	2.38 (60mm)	.315
1-1/2	1-1/2	43024U-H85	24x252	5.49	3.69	3.00	1.25	2.38 (60mm)	.315
2	2	43032U-H86	32x252	7.26	5.65	4.44	1.56	2.81 (71mm)	.375

(For Split Flange Kits, see page 317-320.)

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

Split Flange 135° Tube Elbow (SAE Code 61)

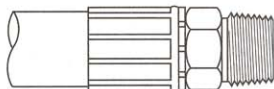


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A		HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINAL
					B				
1/2	1/2	43008U-H91	8x252	4.06	2.12	2.19	.34	1.19 (30mm)	.265
3/4	3/4	43012U-H92	12x252	4.04	3.00	2.06	.61	1.50 (38mm)	.265

(For Split Flange Kits, see page 317-320.)

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

Hose End 'W' Series



Refer to important safety information on page 3.

Typical Application: Medium & High pressure hydraulics.

Compatible Hose: H104; H145; H190; H245; H280; H290; H425; H545

Pressure: Determined by the maximum working pressure for hose size and hose end configuration whichever is lesser. See page 14 for working pressure ratings for hose end configurations.

Material: Low Carbon Steel

Plating: Zinc; yellow dichromate finish

Advantages: Bite the braid design to allow for higher working pressures.

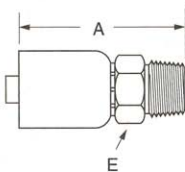
Assemble With: T-400-1*, T-410-1, T-420-1, T-440-1, T-480.

Ordering Information: Order individually by catalog number. O-rings not supplied with flange hose ends. Order o-rings by catalog number, reference individual listings for details. For split-flange kits, refer to pages 317-320.

*Size -16 must be crimped on T-410-1, T-420-1, T-440-1 or T-480.

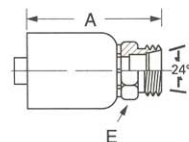
Label Set: FS-3700

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/8	04W-102	1/8-27	1.89	.88	.16	7/16
1/4	1/4	04W-104	1/4-18	2.14	1.13	.16	9/16
1/4	3/8	04W-106	3/8-18	2.15	1.14	.16	11/16
3/8	1/4	06W-104	1/4-18	2.18	1.13	.26	5/8
3/8	3/8	06W-106	3/8-18	2.18	1.13	.26	11/16
3/8	1/2	06W-108	1/2-14	2.29	1.24	.26	7/8
1/2	3/8	08W-106	3/8-18	2.35	1.17	.36	11/16
1/2	1/2	08W-108	1/2-14	2.48	1.30	.36	7/8
1/2	3/4	08W-112	3/4-14	2.55	1.37	.36	1-1/16
5/8	1/2	10W-108	1/2-14	2.91	1.53	.49	7/8
3/4	1/2	12W-108	1/2-14	3.07	1.65	.51	1
3/4	3/4	12W-112	3/4-14	2.99	1.57	.60	1-1/16
1	1	16W-116	1-11-1/2	3.32	1.93	.81	1-3/8

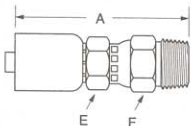
Male DIN Universal Seat l. Rh. (Light)



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
3/8	12	06W-12A	M18x1.5	1.98	.93	.26	3/4

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

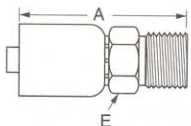
Male Pipe Swivel



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04W-J04	1/4-18	3.18	2.17	.16	9/16	13/16
3/8	1/4	06W-J04	1/4-18	3.23	2.18	.25	9/16	13/16
3/8	3/8	06W-J06	3/8-18	3.32	2.27	.26	5/8	7/8
3/8	1/2	06W-J08	1/2-14	3.35	2.30	.26	5/8	7/8
1/2	1/2	08W-J08	1/2-14	3.58	2.39	.35	11/16	7/8
3/4	3/4	12W-J12	3/4-14	4.10	2.68	.60	1	1-1/4
1	1	16W-J16	1-1-1/2	4.27	2.88	.78	1-1/4	1-3/8

Note: Swivel for installation purposes only.
(Not for temperatures above 212°F.)

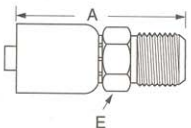
FOR-SEAL® Male Rigid



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	O-RING	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04W-E64	9/16-18	4629x4	1.89	.88	.16	5/8
3/8	3/8	06W-E66	11/16-16	4629x6	2.09	1.04	.26	3/4
1/2	1/2	08W-E68	13/16-16	4629x8	2.44	1.26	.36	7/8

Does not include o-ring. See page 267 for o-ring.

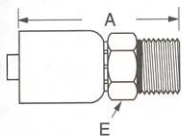
SAE 37° Male Rigid



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04W-504	7/16-20	2.10	1.09	.16	1/2
1/4	3/8	04W-506	9/16-18	2.04	1.03	.16	5/8
3/8	3/8	06W-506	9/16-18	2.17	1.12	.26	5/8
3/8	1/2	06W-508	3/4-16	2.22	1.17	.26	13/16
1/2	1/2	08W-508	3/4-16	2.48	1.30	.30	13/16
1/2	5/8	08W-510	7/8-14	2.49	1.31	.36	15/16
1/2	3/4	08W-512	1-1/16-12	2.62	1.44	.36	1-1/8
5/8	5/8	10W-510	7/8-14	2.98	1.60	.49	15/16
5/8	3/4	10W-512	1-1/16-12	2.99	1.61	.48	1-1/8
3/4	3/4	12W-512	1-1/16-12	3.10	1.68	.60	1-1/8
3/4	1	12W-516	1-5/16-12	3.17	1.75	.60	1-3/8
1	1	16W-516	1-5/16-12	3.30	1.91	.81	1-3/8

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

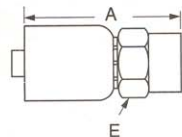
Male Straight Thread O-Ring Rigid



HOSE I.D.	PORT SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04W-P04	7/16-20	2.01	1.00	.16	9/16
1/4	3/8	04W-P06	9/16-18	2.07	1.06	.16	11/16
3/8	3/8	06W-P06	9/16-18	2.08	1.03	.26	11/16
3/8	1/2	06W-P08	3/4-16	2.12	1.07	.26	7/8
1/2	1/2	08W-P08	3/4-16	2.39	1.21	.36	7/8
1/2	5/8	08W-P10	7/8-14	2.50	1.32	.36	1
3/4	3/4	12W-P12	1-1/16-12	3.04	1.62	.60	1-1/4

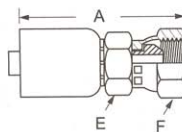
Includes o-ring. For replacement o-ring see page 254.

Female Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	04W-204	1/4-18	2.04	1.03	.16	3/4
3/8	3/8	06W-206	3/8-18	2.14	1.09	.26	7/8
1/2	1/2	08W-208	1/2-14	2.62	1.44	.36	1-1/8

Female Straight Pipe Swivel (NPSM)



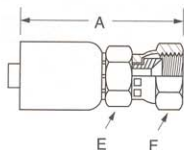
HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04W-054	1/4-18	2.20	1.19	.16	1/2	11/16
3/8	3/8	06W-056	3/8-18	2.27	1.22	.26	5/8	7/8
1/2	1/2	08W-058	1/2-14	2.77	1.59	.36	13/16	1

Connects to male pipe fitting with internal seat.

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

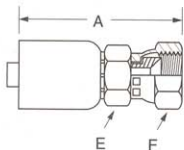
^a Swivel nuts are universal – both SAE 37° and 45° connections.

JIC 37° Female Swivel
 (Exceptions Noted for 45° Flare, Refer to Footnotes)



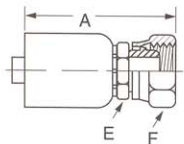
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04W-604 ^a	7/16-20	2.18	1.17	.16	7/16	9/16
1/4	5/16	04W-605 ^a	1/2-20	2.31	1.30	.16	1/2	5/8
1/4	3/8	04W-606	9/16-18	2.40	1.39	.16	9/16	11/16
3/8	1/4	06W-604 ^a	7/16-20	2.18	1.13	.17	9/16	9/16
3/8	3/8	06W-606	9/16-18	2.44	1.39	.26	5/8	11/16
3/8	1/2	06W-608 ^a	3/4-16	2.56	1.51	.26	11/16	7/8
3/8	5/8	06W-610 ^a	7/8-14	2.60	1.55	.26	13/16	1
1/2	3/8	08W-606	9/16-18	2.55	1.37	.30	11/16	11/16
1/2	1/2	08W-608 ^a	3/4-16	2.75	1.57	.36	11/16	7/8
1/2	5/8	08W-610 ^a	7/8-14	2.92	1.74	.36	13/16	1
1/2	3/4	08W-612	1-1/16-12	2.90	1.72	.36	1	1-1/4
5/8	5/8	10W-610 ^a	7/8-14	3.12	1.74	.49	7/8	1
5/8	3/4	10W-612	1-1/16-12	3.30	1.92	.49	1	1-1/4
3/4	5/8	12W-610 ^a	7/8-14	3.30	1.88	.48	1	1
3/4	3/4	12W-612	1-1/16-12	3.40	1.98	.60	1	1-1/4
3/4	1	12W-616	1-5/16-12	3.45	2.03	.60	1-1/4	1-1/2
1	1	16W-616	1-5/16-12	3.56	2.17	.81	1-1/4	1-1/2

SAE 45° Degree Female Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/8	3/8	06W-406	5/8-18	2.36	1.31	.26	7/16	3/4
3/4	3/4	12W-412	1-1/16-14	3.40	1.98	.60	1	1-1/4

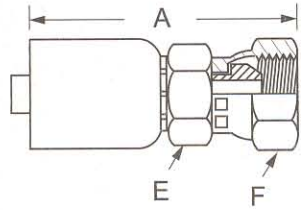
Female Swivel DIN
 Universal Seat
 I. Rh. (Light) (DIN 3901/3902)



HOSE I.D.	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/8	12	06W-12C	M18x1.5	2.49	1.44	.26	5/8	7/8

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

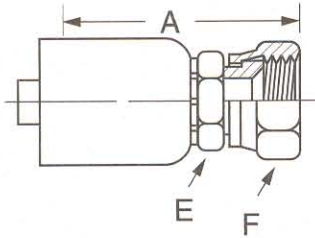
British Standard (BSPP) 60° Cone Female Pipe Swivel



HOSE I.D.	BSPP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04W-354	G-1/4-19*	2.37	1.36	.16	1/2	3/4
3/8	3/8	06W-356	G-3/8-19*	2.53	1.48	.26	5/8	7/8
1/2	1/2	08W-358	G-1/2-14*	2.87	1.69	.36	3/4	1-1/16

*G As part of Thread is ISO Designation for Parallel Thread.

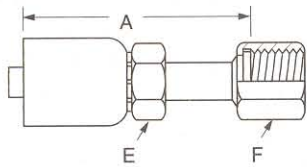
Female JIS 30° Flare Parallel Pipe Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/8	3/8	06W-06L	G-3/8-19*	2.51	1.46	.26	5/8	7/8

*G As part of Thread is ISO Designation for Parallel Thread.

Female FOR-SEAL® Swivel Straight



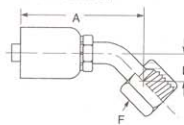
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04W-J64*	9/16-18	2.37	1.36	.16	9/16	11/16
1/4	3/8	04W-J66*	11/16-16	2.40	1.39	.16	5/8	13/16
3/8	3/8	06W-J66*	11/16-16	2.44	1.39	.26	5/8	13/16
3/8	1/2	06W-J68*	13/16-16	2.48	1.43	.26	3/4	15/16
1/2	3/8	08W-J66*	11/16-16	2.65	1.47	.26	11/16	13/16
1/2	1/2	08W-J68*	13/16-16	2.78	1.60	.36	3/4	15/16
1/2	5/8	08W-S70	1-14	3.12	1.94	.36	7/8	1-1/8
5/8	5/8	10W-S70	1-14	3.30	1.91	.45	7/8	1-1/8
3/4	3/4	12W-S72	1-3/16-12	3.45	2.03	.55	1	1-3/8
1	1	16W-S76	1-7/16-12	3.92	2.53	.78	1-1/4	1-5/8

*Captive swivel nut design.

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

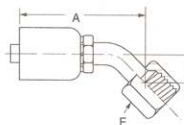
^a Swivel nuts are universal – both SAE 37° and 45° connections.

JIC 37° Female Swivel 45° Tube Elbow
 (Exceptions Noted for 45° Flare, Refer to Footnotes)



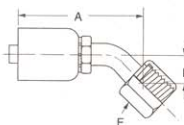
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04W-684 ^a	7/16-20	2.61	.33	1.60	.15	9/16
3/8	3/8	06W-686	9/16-18	2.79	.39	1.74	.24	11/16
3/8	1/2	06W-688 ^a	3/4-16	3.12	.55	2.07	.26	7/8
1/2	1/2	08W-688 ^a	3/4-16	3.30	.55	2.12	.33	7/8
1/2	5/8	08W-690 ^a	7/8-14	3.54	.63	2.36	.36	1
3/4	3/4	12W-692	1-1/16-12	4.05	.78	2.63	.56	1-1/4
1	1	16W-696	1-5/16-12	4.66	1.10	3.27	.76	1-1/2

SAE 45° Female Swivel 45° Tube Elbow



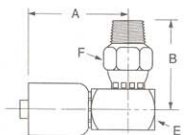
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/8	3/8	06W-486	5/8-18	2.79	.39	1.74	.24	3/4

Female FOR-SEAL® Swivel 45° Tube Elbow



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04W-L64	9/16-18	2.73	.41	1.72	.16	11/16
1/4	3/8	04W-L66	11/16-16	2.91	.43	1.90	.16	13/16
3/8	3/8	06W-L66	11/16-16	2.87	.43	1.82	.24	13/16
3/8	1/2	06W-L68	13/16-16	3.20	.26	2.15	.26	15/16
1/2	1/2	08W-L68	13/16-16	3.38	.59	2.20	.33	15/16
1/2	5/8	08W-L70	1-14	3.52	.65	2.34	.36	1-1/8
5/8	5/8	10W-L70	1-14	3.71	.65	2.33	.44	1-1/8
3/4	3/4	12W-L72	1-3/16-12	4.11	.84	2.69	.56	1-3/8

Male Pipe Swivel 90° Elbow



HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	SQUARE E	HEX F
3/8	3/8	06W-M06	3/8-18	3.11	2.11	2.06	.27	11/16	7/8
1/2	1/2	08W-M08	1/2-14	3.20	2.16	2.02	.36	3/4	7/8

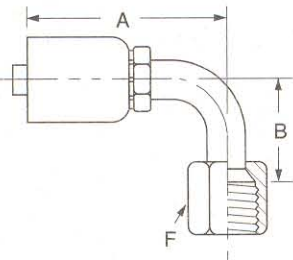
Note: Swivel for installation purpose only.
 (Not for temperatures above 212°F)

COLLO GRIMP 'W' Series

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

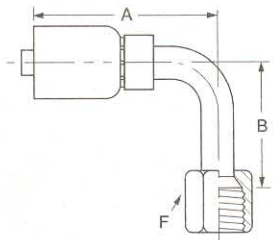
^a Swivel nuts are universal – both SAE 37° and 45° connections.

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



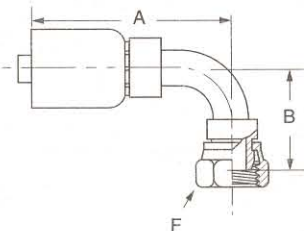
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04W-664 ^a	7/16-20	2.47	.68	1.46	.15	9/16
1/4	3/8	04W-666	9/16-18	2.76	.85	1.75	.16	11-16
3/8	3/8	06W-666	9/16-18	2.74	.85	1.69	.24	1/16
3/8	1/2	06W-668 ^a	3/4-16	2.92	1.09	1.87	.27	7/8
1/2	1/2	08W-668 ^a	3/4-16	3.10	1.09	1.92	.33	7/8
1/2	5/8	08W-670 ^a	7/8-14	3.73	1.23	2.55	.36	1
5/8	3/4	10W-672	1-1/16-12	4.02	2.50	2.64	.48	1-1/4
3/4	3/4	12W-672	1-1/16-12	4.03	2.50	2.61	.56	1-1/4
1	1	16W-676	1-5/16-12	4.49	2.14	3.10	.76	1-1/2

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



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/8	3/8	06W-646	9/16-18	3.14	2.18	2.09	.26	11/16
1/2	5/8	08W-650 ^a	7/8-14	3.39	2.57	2.20	.36	1

British Standard (BSPP) 60° Cone Female Pipe Swivel 90° Tube Elbow

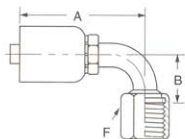


HOSE I.D.	BSPP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/8	3/8	06W-76P	G-3/8-19*	2.84	1.60	1.79	.24	7/8

*G As part of Thread is ISO Designation for Parallel Thread.

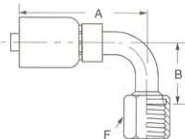
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

**Female FOR-SEAL®
 Swivel Short Drop 90°
 Tube Elbow**



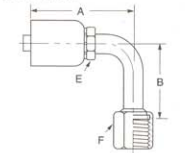
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04W-A24	9/16-18	2.58	.81	1.56	.16	11/16
1/4	3/8	04W-A26	11/16-16	2.83	.90	1.82	.16	13/16
3/8	3/8	06W-A26	11/16-16	2.79	.90	1.74	.24	13/16
3/8	1/2	06W-A28	13/16-16	2.96	1.15	1.91	.26	15/16
1/2	1/2	08W-A28	13/16-16	3.17	1.15	1.99	.33	15/16
1/2	5/8	08W-A30	1-14	3.41	1.27	2.23	.36	1-1/8
5/8	5/8	10W-A30	1-14	3.60	1.27	2.22	.44	1-1/8
3/4	3/4	12W-A32	1-3/16-12	4.04	1.88	2.62	.56	1
1	1	16W-A36	1-7/16-12	4.43	2.21	3.04	.76	1-5/8

**Female FOR-SEAL®
 Swivel Medium Drop 90°
 Tube Elbow**



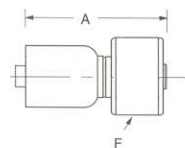
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F	HEX/DIA. E
3/8	3/8	06W-J36	11/16-16	3.05	1.51	2.00	.24	13/16	5/8
1/2	1/2	08W-J38	13/16-16	3.12	1.62	1.94	.33	15/16	11/16
3/4	3/4	12W-J42	1-3/16-12	4.09	2.28	2.67	.56	1-3/8	1

**Female FOR-SEAL®
 Swivel Long Drop 90°
 Tube Elbow**



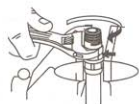
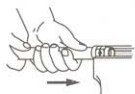
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F	HEX/DIA. E
1/4	1/4	04W-A64	9/16-18	2.82	1.80	1.81	.16	11/16	7/16
1/4	3/8	04W-A66	11/16-16	3.33	2.13	2.32	.16	13/16	9/16
3/8	3/8	06W-A66	11/16-16	3.29	2.13	2.24	.24	13/16	5/8
1/2	1/2	08W-A68	13/16-16	3.89	2.51	2.64	.33	13/16	15/16

Pressure Washer



HOSE I.D.	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/8	06W-6PW	M22x1.5	2.18	1.13	.27	1-3/8

Hose End 009 'B' Series



Refer to important safety information on page 3.

Typical Application: Low pressure air, lube and oil lines.

Compatible Hose: H009

Pressure: Determined by maximum working pressure for hose size. See page 14 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.

Ordering Information: Order individually by catalog number.

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.

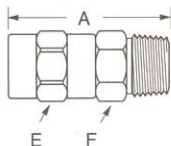
Note: Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

Label Set: FS-400

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

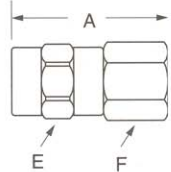
^a Swivel nuts are universal – both SAE 37° and 45° connections.

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG 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

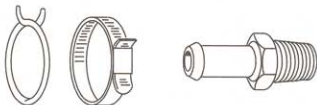
JIC 37° Female Swivel (Refer to Footnotes)



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	00904B-604 ^a	7/16-20	1.31	.81	.172	5/8	9/16

Field Attachable 057 'B' Series

Hose End 057 'B' Series



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.

⚠ CAUTION: Hose can be cut or damaged if over-tightened.

4. Position wire clamp behind bump on 057 'B' Series insert with H057 hose only.

⚠ Refer to important safety information on page 3.

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

Compatible Hose: H057, H105, H115* hose (*H105 and H115 for air applications only.)

Pressure: Determined by maximum working pressure for hose size. See page 14 for working pressure ratings for hose end configurations.

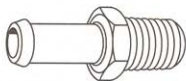
Material: CA360 brass.

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

Ordering Information: Order individually by catalog number.

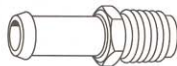
Note: Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG 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

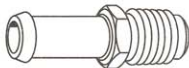
Inverted Male Connector



HOSE I.D.	TUBE SIZE	CATALOG 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

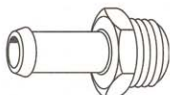
Field Attachable 057 'B' Series

SAE 45° Flare Connector



HOSE I.D.	TUBE SIZE	CATALOG NUMBER
3/8	5/16	05706B-305

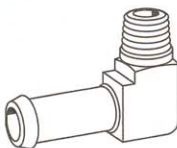
Male Straight Thread Connector



HOSE I.D.	THREAD SIZE	CATALOG NUMBER
3/8	9/16-24	05706B-1412
3/8	7/8-20	05706B-1413
3/8	5/8-20	05706B-1569

(Gasket included.)

Male Pipe Rigid 90° Elbow



HOSE I.D.	PIPE SIZE	CATALOG 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 Swivel 90° Elbow



HOSE I.D.	TUBE SIZE	CATALOG 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.)

Inverted Male Tee Swivel



HOSE I.D.	TUBE SIZE	CATALOG NUMBER
3/8	5/16	05706B-1414#
3/8	3/8	05706B-1415#

(# Chrome plated.)

Gear Type Hose Clamp



HOSE I.D.	CATALOG NUMBER
3/16, 1/4,	6202
5/16, 3/8, 7/16	

**Wire Hose Clamp
(For H057 Hose Only)**



HOSE I.D.	CATALOG NUMBER
3/16, 1/4	1538
5/16	1539
3/8	1540

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.

Hose End 100 'B' Series



⚠ Refer to important safety information found on pages 3 of this catalog.

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

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

Compatible Hose: H100, H101, H201

Pressure: Determined by maximum working pressure for hose size. See page 14 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.

Ordering Information: Order individually by catalog number.

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.

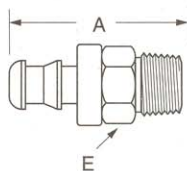
Note: Refer to current price list for availability of cataloged items.

Configurations and dimensions subject to change without notice.

ASSEMBLY EQUIPMENT: See page 385 for optional Assembly Tools.

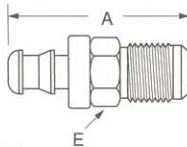
Label Set: FS-500

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG 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

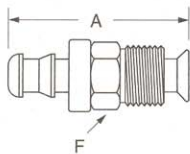


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	1/4	10004B-304	7/16-20	1.45	.81	.172	7/16
1/4	5/16	10004B-305	1/2-20	1.54	.94	.172	1/2
5/16	5/16	10005B-305	1/2-20	1.60	.94	.220	1/2
3/8	3/8	10006B-306	5/8-18	1.73	1.00	.297	5/8

Note: Drawings may differ from actual parts.

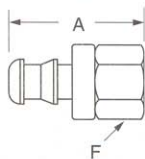
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

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

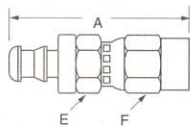
Inverted Male Swivel


HOSE I.D.	TUBE SIZE	CATALOG 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

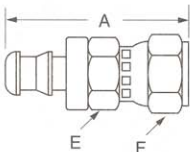
(Steel nut)

Female Inverted Rigid


HOSE I.D.	TUBE SIZE	CATALOG 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.	PIPE SIZE	CATALOG 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

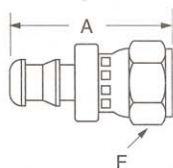
**JIC 37° Female Swivel
(Refer to Footnotes)**


HOSE I.D.	TUBE SIZE	CATALOG 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

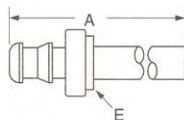
Note: Drawings may differ from actual parts.

**Field Attachable
100 'B' Series
Barb-Tite™**

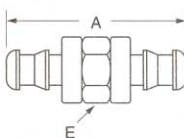
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

SAE 45° Flare Female Swivel


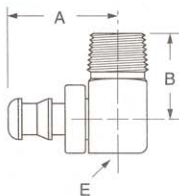
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/8	3/8	10006B-406	5/8-18	1.73	.88	.297	3/4
3/4	3/4	10012B-412	1-1/16-14	2.66	1.25	.609	1-1/4

Straight Tube Rigid


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	TUBE DIA.	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. E
1/4	3/16	10004B-X03	.188	1.77	1.13	.172	13/32
1/4	1/4	10004B-X04	.250	1.83	1.19	.172	13/32
1/4	5/16	10004B-X05	.312	1.85	1.25	.172	13/32
5/16	5/16	10005B-X05	.312	1.91	1.25	.228	7/16
3/8	3/8	10006B-X06	.375	2.04	1.27	.297	1/2

Hose Mender


HOSE I.D.	CATALOG NUMBER	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E
1/4	10004B-Y04	1.76	.50	.172	1/2
5/16	10005B-Y05	1.85	.44	.234	9/16
3/8	10006B-Y06	1.97	.44	.297	5/8
1/2	10008B-Y08	2.33	.50	.391	3/4

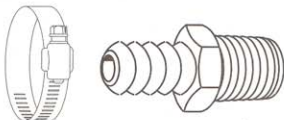
Male Pipe Rigid 90° Elbow


HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	SQUARE E
5/16	1/8	10005B-C02	1/8-27	1.02	.94	.31	.228	1/2
5/16	1/4	10005B-C04	1/4-18	1.09	.94	.38	.228	9/16
3/8	1/8	10006B-C02	1/8-27	1.08	.94	.38	.297	1/2
3/8	1/4	10006B-C04	1/4-18	1.15	.94	.38	.297	9/16

Note: Drawings may differ from actual parts.

**Field Attachable
105 '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 105 'B' Series


CAUTION: Hose can be damaged if over-tightened.

Refer to important safety information on page 3 of this catalog.

Typical Application: Low pressure shop or service air lines.

Compatible Hose: H105; H115; H338.

Pressure: Determined by maximum working pressure for hose size. See page 14 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.

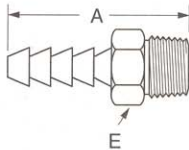
Ordering Information: Order individually by catalog number.

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 91.

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

Label Set: FS-500

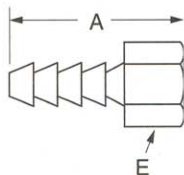
**Male Pipe
(PFT Short)**


HOSE I.D.	PIPE SIZE	CATALOG 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

COLLOCRIMP
 Field Attachable
 105 '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 Pipe
 (NPTF)



HOSE I.D	PIPE SIZE	CATALOG 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

†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)



 Refer to important safety information on page 3 of this catalog.

Typical Application: Air brake hose lines.

Compatible Hose: H105; H115; H338

Pressure: Determined by maximum working pressure for hose size. See page 14 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.

Ordering Information: Order individually by catalog number. Complete air brake hose assemblies can be found in the Ready-Made Hose Assemblies section of this catalog. Refer to page 84-86.

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.

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

Label Set: FS-800

Note: Parts stamped with DOT

Male Connector

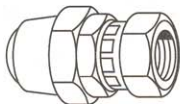

HOSE I.D.	PIPE SIZE	CATALOG NUMBER	OVERALL LENGTH	HOSE CUT-OFF FACTOR†
3/8	1/4	33806B-Y24	2.26	.69
3/8	3/8	33806B-Y26	2.35	.81
3/8	1/2	33806B-Y28	2.45	.94
1/2	3/8	33808B-Y26	2.24	.75
1/2	1/2	33808B-Y28	2.40	.94

Male Connector with Spring Guard


HOSE I.D.	PIPE SIZE	CATALOG 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

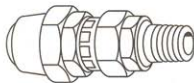
**Field Attachable
338 'B' Series**

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

Female Connector


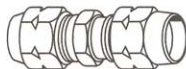
HOSE I.D	ABS THREAD SIZE	CATALOG NUMBER	OVERALL LENGTH	HOSE CUT-OFF FACTOR†
3/8	3/4-20	33806B-Y76	2.40	.88
1/2	7/8-20	33808B-Y78	2.37	.88

(Steel Nut)

**Female Connector
with Adapter**


HOSE I.D	PIPE SIZE	CATALOG 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


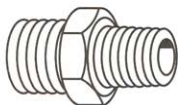
HOSE I.D	CATALOG NUMBER	OVERALL LENGTH
3/8	33806B-Y06	3.28
1/2	33808B-Y08	3.25

**Hose Mender
(Body Only)**


HOSE I.D	CATALOG NUMBER	OVERALL LENGTH
3/8	33806-E	2.55

**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.

Adapter


ABS THREAD SIZE	PIPE SIZE	CATALOG NUMBER	OVERALL LENGTH	ABS THREAD SIZE
3/8	1/4	1390x6	1.18	3/4-20
3/8	3/8	1390x6x6	1.18	3/4-20
3/8	1/2	1390x6x8	1.37	3/4-20
1/2	3/8	1390x8	1.18	7/8-20
1/2	1/2	1390x8x8	1.37	7/8-20

Spring Guard


HOSE I.D.	CATALOG NUMBER
3/8	33806-C
1/2	33808-C

(Steel Nut)

**Insert
(Body Only)**


HOSE I.D.	PIPE SIZE	CATALOG 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

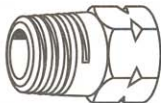

HOSE I.D.	CATALOG NUMBER
3/8	33806-A
1/2	33808-A

**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.

Nut


HOSE I.D.	CATALOG NUMBER
3/8	33806-B
1/2	33808-B

Nut For Spring Guard


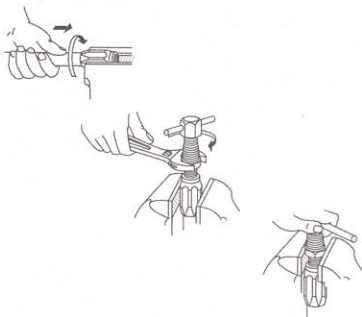
HOSE I.D.	CATALOG NUMBER
3/8	33806-D
1/2	33808-D

COLLOCRIMP

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.

Hose End 069 'D' Series



Typical 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 page 14 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; yellow dichromate finish

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

Ordering Information: Order individually by catalog number. For mandrel, see page 384.

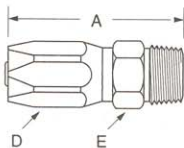
Assembly Instructions:

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

Label Set: FS-600

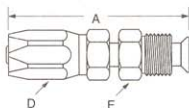
⚠ Refer to important safety information on page 3 of this catalog.

Male Pipe Rigid

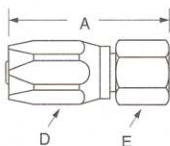


HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E
3/16	1/8	06904D-102	1/8-27	1.72	1.00	.17	5/8	7/16
3/16	1/4	06904D-104	1/4-18	1.90	1.19	.17	5/8	9/16
1/4	1/4	06905D-104	1/4-18	2.00	1.25	.25	11/16	9/16
5/16	1/4	06906D-104	1/4-18	2.10	1.25	.30	13/16	5/8
13/32	3/8	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	1.63	.39	15/16	7/8
1/2	1/2	06910D-108	1/2-14	2.88	1.63	.48	1-1/8	7/8
5/8	3/4	06912D-112	3/4-14	3.25	1.75	.61	1-1/4	1-1/16
7/8	3/4	06916D-112	3/4-14	2.81	1.63	.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	3.47	2.06	1.28	1-15/16	2
1-13/16	2	06932D-132	2-11-1/2	3.99	2.25	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
3	3	06948T-148*	3-8	5.09	3.19	2.83	3-7/8	3-3/4

*Brass construction.

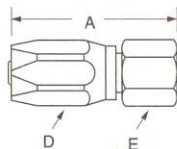
**Field Attachable
069 'D' Series**
**Inverted Male
Swivel Straight**


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/16	1/4	06904D-B04	7/16-24	2.10	1.38	.17	5/8	7/16
1/4	5/16	06905D-B05	1/2-20	2.40	1.69	.23	11/16	1/2
5/16	3/8	06906D-B06	5/8-18	2.71	1.81	.30	13/16	5/8

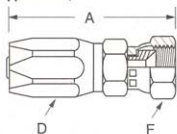
**JIC 37° Female Swivel
(Exceptions Noted for 45° Flare)
(Refer to Footnotes)**


HOSE I.D.	TUBE SIZE	CATALOG 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	1.19	.30	13/16	11/16
13/32	1/2	06908D-608 ^a	3/4-16	2.52	1.44	.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	1.69	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	2.25	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
3	3	06948T-648*	3-1/2-12	4.28	2.37	2.83	3-7/8	4

*Brass construction.

SAE 45° Female Swivel


HOSE I.D.	TUBE SIZE	CATALOG 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	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
7/8	1	06916D-X26	1-5/16-14	3.20	1.94	.81	1-7/16	1-1/2

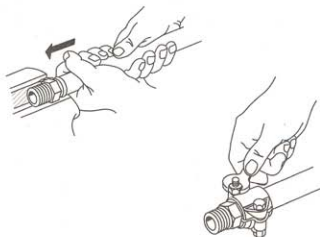
(See page 294 for PTT Thread Adapter.)

†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 45° and 37° connections.

†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



⚠ Refer to important safety information on page 3 of this catalog.

Typical Application: Low pressure hydraulic applications and suction lines.

Compatible Hose: H039.

Pressure: Determined by maximum working pressure for hose size. See page 14 for working pressure ratings for hose end configurations.

Material: 12L14 carbon steel insert; malleable iron clamp

Plating: Zinc; yellow dichromate finish

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

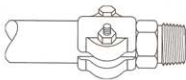
Assembly Instructions:

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

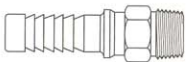
Assembly Includes Insert,
Clamps, Nuts and Bolts



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
1-1/2	1-1/2	K24N-124	1.30	2.06	IKE24N-124	K24	CK24	NK20	BK24
2	2	K32N-132	1.75	2.19	IKE32N-132	K32	CK32	NK32	BK32

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
1-1/2	1-1/2	IKE24N-124	1-1/2-11-1/2	4.65	2.06	1.30
2	2	IKE32N-132	2-11-1/2	5.19	2.19	1.75

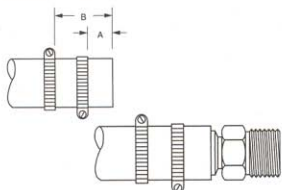
Use with H039 hose only. May be clamped with band or gear-type clamp. Used with suction hose for suction lines or return lines. For low pressure applications only.

COLL-CRIMP

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



Hose Size	Clamp Part No.	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.

Refer to important safety information on page 3 of this catalog.

Typical Application: Suction and return lines.

Compatible Hose: H039.

Pressure: Refer to H039 listing on page 37 when used with 039 'K' Series hose ends and 6203 Series clamps.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; yellow dichromate finish

Ordering Information: Order individually by catalog number.

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

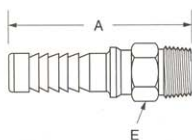
Assembly Instructions:

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.

(Used with H039 hose only.) Used with suction hose for suction or return lines. For low pressure applications.

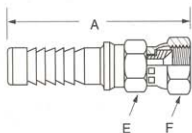
Note: Band-It Clamps may be used in place of worm gear clamps. Note: Not intended for SAE 100R4 applications.

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG 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

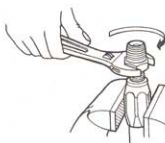
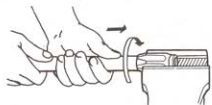
JIC 37° Female Swivel



HOSE I.D.	TUBE SIZE	CATALOG 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

†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



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"

Typical 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 page 14 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; yellow dichromate finish

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

Ordering Information: Order individually by catalog number. Order o-rings by catalog number; reference individual hose listing for details. For split flange kits, refer to pages 317-320.

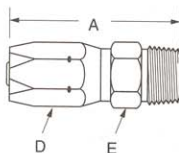
Assembly Instructions:

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 assembly machine (page 384).

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.

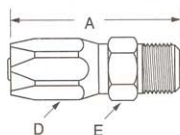
Male Pipe Rigid



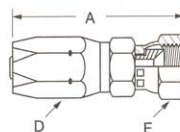
HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E
1/4	1/8	10404N-102	1/8-27	2.18	1.19	.17	3/4	7/16
1/4	1/4	10404N-104	1/4-18	2.36	1.38	.17	3/4	9/16
3/8	1/4	10406N-104	1/4-18	2.50	1.31	.27	7/8	9/16
3/8	3/8	10406N-106	3/8-18	2.53	1.38	.27	7/8	11/16
1/2	3/8	10408N-106	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

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

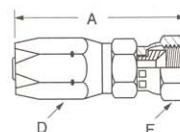
‡ Swivel nuts are universal – both SAE 45° and 37° connections.

JIC 37° Male Rigid


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E
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

**JIC 37° Female Swivel
(Exceptions Noted for 45° Flare,
Refer to Footnotes)**


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
1/4	1/4	10404N-604*	7/16-20	2.49	1.50	.17	3/4	9/16
1/4	5/16	10404N-605*	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*	3/4-16	2.96	1.81	.27	7/8	7/8
1/2	1/2	10408N-608*	3/4-16	3.01	1.81	.39	1	7/8
1/2	5/8	10408N-610*	7/8-14	3.02	1.88	.39	1	1
3/4	5/8	10412N-610*	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

SAE 45° Female Swivel


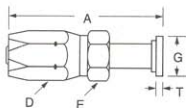
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/8	3/8	10406N-406	5/8-18	2.67	1.50	.27	7/8	3/4
3/4	3/4	10412N-412	1-1/16-14	3.27	2.00	.61	1-3/8	1-1/4

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 45° and 37° connections.

Split Flange Straight (SAE Code 61)

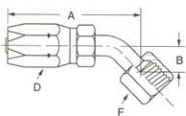


HOSE I.D.	NOM. FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E	FLANGE DIA.	T
3/4	3/4	10412N-G12	12x252	3.79	2.44	.58	1-3/8	15/16	1.500 (38mm)	.265
1	1	10416N-G16	16x252	4.21	2.63	.76	1-3/4	1-1/4	1.750 (44mm)	.315

(For Split Flange Kits, see page 317-320.)

JIC 37° Female Swivel 45° Tube Elbow

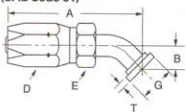
(Refer to Footnotes)



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	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

Split Flange 45° Tube Elbow

(SAE Code 61)

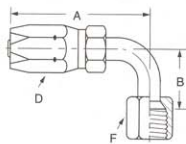


HOSE I.D.	NOM. FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E	FLANGE DIA.	T
3/4	3/4	10412N-G42	12x252	4.43	.99	3.13	.58	1-3/8	15/16	1.500 (38mm)	.265
1	1	10416N-G46	16x252	4.99	1.06	3.44	.76	1-3/4	1-1/4	1.750 (44mm)	.315

(For Split Flange Kits, see page 317-320.)

JIC 37° Female Swivel 90° Tube Elbow

(Refer to Footnotes)

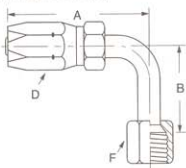


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
1/4	1/4	10404N-664 ^a	7/16-20	2.80	.68	1.81	.15	3/4	9/16
3/8	3/8	10406N-666	9/16-18	3.15	.85	2.00	.24	7/8	11/16
1/2	1/2	10408N-668 ^a	3/4-16	3.44	1.09	2.25	.33	1	7/8
1/2	5/8	10408N-670 ^a	7/8-14	3.75	1.23	2.56	.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

**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.

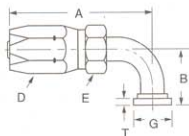
^a Swivel nuts are universal – both SAE 45° and 37° connections.

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


HOSE I.D.	TUBE SIZE	CATALOG 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

**Split Flange 90° Tube
Elbow**

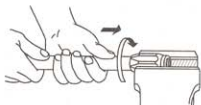
(SAE Code 61)



HOSE I.D.	NOM. FLANGE SIZE	CATALOG 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 (38mm)	.265
3/4	1	10412N-G76	16x252	4.08	2.13	2.75	.83	1-3/8	15/16	1.750 (44mm)	.315
1	1	10416N-G76	16x252	4.81	2.38	3.25	.83	1-3/4	1-1/4	1.750 (44mm)	.315

(For Split Flange Kits, see page 317-320.)

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

Hose End 213 'N' Series


⚠ Refer to important safety information on page 3 of this catalog.

Typical 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 page 14 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; yellow dichromate finish

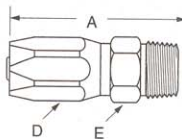
Advantages: Very popular in heavy-duty truck markets. Good selection of hose ends, including brass. Non-mandrel assembly.

Ordering Information: Order individually by catalog number.

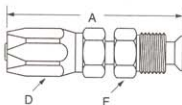
Assembly Instructions:

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 LD	PIPE SIZE	CATALOG 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

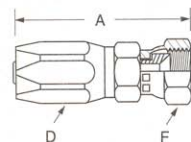
Inverted Male Swivel Straight


HOSE LD	TUBE SIZE	CATALOG 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

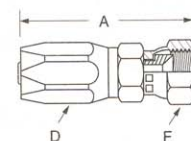
**Field Attachable
213 'N' Series**

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

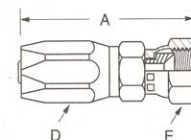
^a Swivel nuts are universal – both SAE 45° and 37° connections.

JIC 37° Female Swivel
(Exceptions Noted for 45° Flare, Refer to Footnotes)


HOSE ID	TUBE SIZE	CATALOG 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

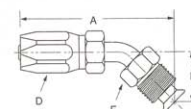
SAE 45° Female Swivel
(Exceptions Noted for 45° Flare, Refer to Footnotes)


HOSE ID	TUBE SIZE	CATALOG 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 ID	TUBE SIZE	CATALOG 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 294 for PTT Thread Adapter.)

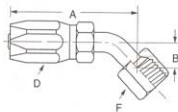
Inverted Male Swivel
45° Tube Elbow


HOSE ID	TUBE SIZE	CATALOG 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

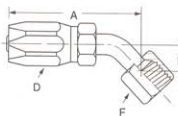
**Field Attachable
213 'N' Series**

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

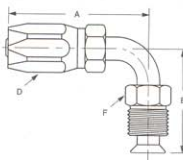
^a Swivel nuts are universal – both SAE 45° and 37° connections.

**SAE 37° Female Swivel 45°
Tube Elbow
(Exceptions Noted for 45° Flare,
Refer to Footnotes)**


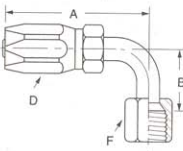
HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/16	1/4	21304N-684 ^a	7/16-20	2.34	.33	1.63	.15	9/16	9/16
1/4	5/16	21305N-685 ^a	1/2-20	2.44	.36	1.69	.21	5/8	5/8
5/16	3/8	21306N-686	9/16-18	2.61	.39	1.75	.25	3/4	5/8
13/32	1/2	21308N-688 ^a	3/4-16	3.13	.55	2.13	.33	7/8	7/8

**SAE 45° Female Swivel 45°
Tube Elbow**


HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
5/16	3/8	21306N-488	5/8-18	2.85	.39	1.81	.25	3/4	3/4

**Inverted Male Swivel
90° Tube Elbow**


HOSE ID	TUBE SIZE	CATALOG 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

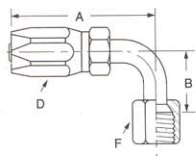
**JIC 37° Female Swivel 90°
Tube Elbow
(Exceptions Noted for 45° Flare,
Refer to Footnotes)**


HOSE ID	TUBE SIZE	CATALOG 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

**Field Attachable
213 'N' Series**

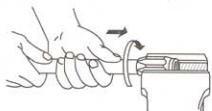
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

SAE 45° Female Swivel 90°
Tube Elbow



HOSE I.D	TUBE SIZE	CATALOG 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

†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


 Refer to important safety information on page 3 of this catalog.

Typical 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 page 14 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; yellow dichromate finish

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.

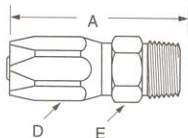
Ordering Information: Order individually by catalog number.

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.

Label Set: FS-600

Male Pipe Rigid


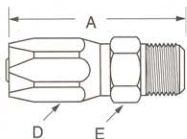
HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E
3/16	1/8	24704N-102	1/8-27	1.71	1	.12	5/8	7/16
3/16	1/4	24704N-104	1/4-18	1.91	1.19	.12	5/8	9/16
1/4	1/4	24705N-104	1/4-18	1.96	1.25	.18	11/16	9/16
5/16	1/4	24706N-104	1/4-18	2.08	1.25	.25	13/16	9/16
5/16	3/8	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	1.38	.36	15/16	11/16
13/32	1/2	24708N-108	1/2-14	2.71	1.63	.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	3.23	1.75	.55	1-1/4	1-1/4

COLL-CRIMP

Field Attachable 247 'N' Series

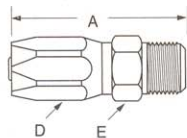
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

JIC 37° Male Rigid



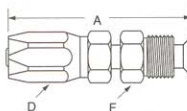
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E
3/16	1/4	24704N-504	7/16-20	1.91	1.19	.12	5/8	1/2
1/4	5/16	24705N-505	1/2-20	2.01	1.19	.18	11/16	9/16
5/16	3/8	24706N-506	9/16-18	2.13	1.25	.25	13/16	5/8
13/32	1/2	24708N-508	3/4-16	2.64	1.56	.36	15/16	13/16
1/2	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

SAE 45° Flare Male Rigid



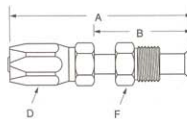
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E
3/16	1/4	24704N-304	7/16-20	1.84	1.13	.12	5/8	1/2
1/4	5/16	24705N-305	1/2-20	2.00	1.25	.18	11/16	9/16
5/16	3/8	24706N-306	5/8-18	2.19	1.25	.25	13/16	11/16
13/32	1/2	24708N-308	3/4-16	2.67	1.50	.36	15/16	13/16
1/2	5/8	24710N-310	7/8-14	3.01	1.75	.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

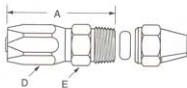


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/16	1/4	24704N-B04	7/16-24	2.54	1.81	.18	5/8	7/16
1/4	5/16	24705N-B05	1/2-20	2.75	2.00	.21	11/16	1/2
5/16	3/8	24706N-B06	5/8-18	2.91	2.00	.31	13/16	5/8
13/32	1/2	24708N-B08	3/4-18	3.63	2.50	.43	15/16	3/4

Inverted Male Swivel - Extended



HOSE I.D.	TUBE SIZE	CATALOG 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

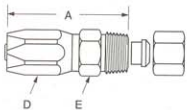
Air Brake Connection
 (Hose to Copper/ Nylon Tubing)
 (For 150 PSI Air Pressure Max.)


HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR		HOLE DIA.	HEX D	HEX E
				A				
13/32	3/8	24708B-Y56	17/32-24	2.36	1.25	.361	15/16	7/8
1/2	1/2	24710B-Y58	11/16-20	2.66	1.38	.453	1-1/8	7/8
1/2	5/8	24710B-Y60	13/16-18	2.72	1.44	.453	1-1/8	7/8
5/8	3/4	24712B-Y62	1-18	3.14	1.56	.549	1-1/4	1

(Nut and Sleeve not included.)

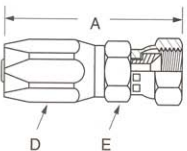
HOSE TO COPPERTUBING
HOSE TO NYLONTUBING

TUBE SIZE	CATALOG NUMBER SLEEVE	CATALOG NUMBER NUT	CATALOG NUMBER SLEEVE	CATALOG NUMBER NUT	CATALOG NUMBER INSERT
3/8	1360x6	1361x6	1460x6	1461x6	1484x6
1/2	1360x8	1361x8	1460x8	1461x8	1484x8
5/8	1360x10	1361x10	1460x10	1461x10	1484x10
3/4	1360x12	1361x12	1460x12	1461x12	1484x12

Flareless Tube Rigid
Ermeto® 7000 Series
 (With Nut and Sleeve)


HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR		HOLE DIA.	HEX D	HEX E
				A				
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

(For replacement Nuts and Sleeves, see page 299.)

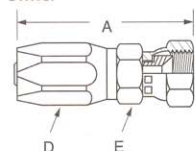
JIC 37° Female Swivel
 (Exceptions Noted, Refer to
 Footnotes)


HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR		HOLE DIA.	HEX D	HEX E
				A				
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

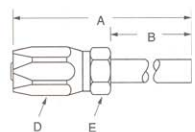
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

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

†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 Female Swivel


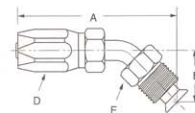
HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX D	HEX F
5/16	3/8	24706N-406	5/8-18	2.28	1.38	.25	13/16	3/4
13/32	3/8	24708N-406	5/8-18	2.65	1.56	.28	15/16	3/4
5/8	3/4	24712N-412	1-1/16-14	3.54	2.00	.55	1-1/4	1-1/4

Straight Tube - Extended


HOSE ID	TUBE SIZE	CATALOG NUMBER	A	B	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
1/2	5/8	24710N-T60	9.91	7.69	8.63	.45	1-1/8	7/8

HOSE TO COPPERTUBING
HOSE TO NYLON TUBING

TUBE SIZE	CATALOG NUMBER SLEEVE	CATALOG NUMBER NUT	CATALOG NUMBER SLEEVE	CATALOG NUMBER NUT	CATALOG NUMBER INSERT
3/8	1360x6	1361x6	1460x6	1461x6	1484x6
1/2	1360x8	1361x8	1460x8	1461x8	1484x8
5/8	1360x10	1361x10	1460x10	1461x10	1484x10
3/4	1360x12	1361x12	1460x12	1461x12	1484x12

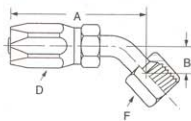
**Inverted Male Swivel
45° Tube Elbow**


HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX D	HEX F
1/4	5/16	24705N-E45	1/2-20	3.42	1.14	2.63	.18	11/16	1/2

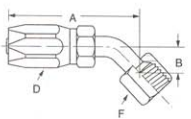
**Field Attachable
247 'N' Series**

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

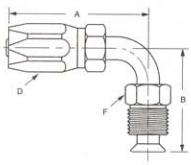
^a Swivel nuts are universal – both SAE 45° and 37° connections.

**JIC 37° Female Swivel 45°
Tube Elbow**
(Exceptions Noted for 45° Flare,
Refer to Footnotes)


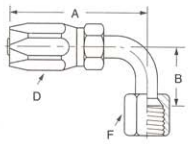
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/16	1/4	24704N-684 ^a	7/16-20	2.45	.33	1.75	.12	5/8	9/16
1/4	5/16	24705N-685 ^a	1/2-20	2.60	.36	1.88	.18	11/16	5/8
5/16	3/8	24706N-686	9/16-18	2.78	.39	1.88	.25	13/16	11/16
13/32	1/2	24708N-688 ^a	3/4-16	3.46	.55	2.31	.33	15/16	7/8
1/2	5/8	24710N-690 ^a	7/8-14	3.86	.63	2.63	.45	1-1/8	1
5/8	3/4	24712N-692	1-1/16-12	4.39	.78	2.88	.55	1-1/4	1-1/4
7/8	1	24716N-696	1-5/16-12	5.21	1.10	3.94	.76	1-7/16	1-7/16

**SAE 45° Female Swivel 45°
Tube Elbow**


HOSE I.D.	TUBE SIZE	CATALOG 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	2.82	.39	1.94	.25	13/16	3/4
5/8	3/4	24712N-492	1-1/16-14	4.45	.78	2.94	.55	1-1/4	1-1/4

**Inverted Male Swivel
90° Tube Elbow**


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/16	1/4	24704N-E04	7/16-24	2.26	1.36	1.56	.18	5/8	7/16
1/4	5/16	24705N-E05	1/2-20	2.59	1.61	1.88	.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	2.74	1.61	1.88	.24	7/8	1/2
5/16	3/8	24706N-E06	5/8-18	3.03	1.97	2.13	.30	7/8	5/8

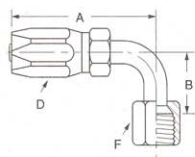
**JIC 37° Female Swivel 90°
Tube Elbow**
(Exceptions Noted, Refer to
Footnotes)


HOSE I.D.	TUBE SIZE	CATALOG 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	2.28	.68	1.50	.12	5/8	9/16
1/4	5/16	24705N-665 ^a	1/2-20	2.60	.77	1.88	.18	11/16	5/8
5/16	3/8	24706N-666	9/16-18	2.78	.85	2.88	.25	13/16	11/16
13/32	1/2	24708N-668 ^a	3/4-16	3.20	1.09	2.13	.36	15/16	7/8
1/2	1/2	24710N-668 ^a	3/4-16	3.45	1.09	2.13	.45	15/16	7/8
1/2	5/8	24710N-670 ^a	7/8-14	3.63	1.23	2.50	.45	1-1/8	1
5/8	3/4	24712N-672	1-1/16-12	4.29	1.82	2.81	.55	1-1/4	1-1/4
7/8	1	24716N-676	1-5/16-12	4.51	2.14	2.81	.81	1-7/16	1-1/2

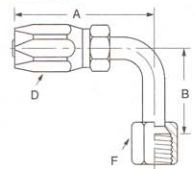
**Field Attachable
247 'N' Series**

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

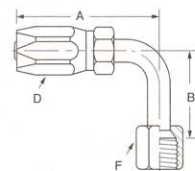
‡ Swivel nuts are universal – both SAE 45° and 37° connections.

**SAE 45° Female Swivel 90°
Tube Elbow**


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
5/16	3/8	24706N-466	5/8-18	2.74	.85	1.88	.25	13/16	3/4
5/8	3/4	24712N-472	1-1/16-14	4.33	1.82	2.75	.55	1-1/4	1-1/4

**JIC 37° Female Swivel
Long Drop 90° Tube Elbow
(Exceptions Noted, Refer to
Footnotes)**


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/16	1/4	24704N-644 [‡]	7/16-20	2.35	1.80	1.69	.15	5/8	9/16
1/4	5/16	24705N-645 [‡]	1/2-20	2.54	1.80	1.88	.21	11/16	5/8
5/16	3/8	24706N-646	9/16-18	2.83	2.18	2.00	.24	13/16	11/16
13/32	1/2	24708N-648 [‡]	3/4-16	3.31	2.43	2.25	.33	15/16	7/8
1/2	5/8	24710N-650 [‡]	7/8-14	3.56	2.57	2.31	.46	1-1/8	1
5/8	3/4	24712N-652	1-1/16-12	4.43	3.73	3.00	.58	1-1/4	1-1/4
7/8	1	24716N-656	1-5/16-12	4.39	4.33	3.19	.76	1-7/16	1-1/2

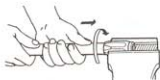
**SAE 45° Female Swivel
Long Drop 90° Tube Elbow**


HOSE I.D.	TUBE SIZE	CATALOG 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	2.82	2.18	1.88	.24	13/16	3/4
5/8	3/4	24712N-452	1-1/16-14	4.39	3.73	2.81	.58	1-1/4	1-1/4

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.

Hose End 425 'N' Series



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"



Typical 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 page 14 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; yellow dichromate finish

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

Ordering Information: Order individually by catalog number. Order o-rings by catalog number; reference individual hose listing for details. For split flange kits, reference pages 317-320.

Assembly Instructions:

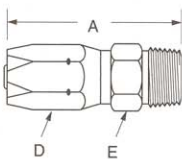
Due to the high torque required to assemble larger sizes, it is recommended that 425 'N' Series hose ends be assembled with the T-300 assembly machine (page 384).

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-1200

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

Male Pipe Rigid



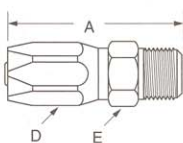
HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR†		HOLE DIA.	HEX D	HEX E
				A				
1/4	1/8	42504N-102	1/8-27	2.18	1.19	.17	13/16	7/16
1/4	1/4	42504N-104	1/4-18	2.36	1.38	.17	13/16	9/16
3/8	1/4	42506N-104	1/4-18	2.50	1.31	.27	15/16	9/16
3/8	3/8	42506N-106	3/8-18	2.53	1.38	.27	15/16	11/16
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
2	2	42532N-132	2-11-1/2	4.86	2.88	1.83	3	2-1/2

COLL-CRIMP

Field Attachable 425 'N' Series

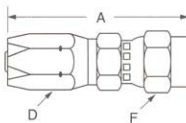
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

JIC 37° Male Rigid



HOSE ID	TUBE SIZE	CATALOG 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

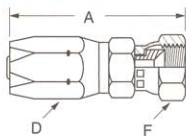
Female Pipe Swivel



HOSE ID	PIPE SIZE	CATALOG 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.)

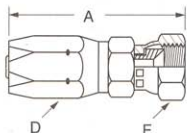
JIC 37° Female Swivel (Exceptions Noted, Refer to Footnotes)



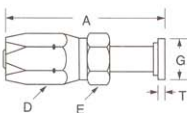
HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
1/4	1/4	42504N-604 ^a	7/16-20	2.49	1.50	.17	13/16	9/16
1/4	5/16	42504N-605 ^a	1/2-20	2.59	1.56	.17	13/16	5/8
1/4	3/8	42504N-606	9/16-18	2.65	1.63	.17	13/16	11/16
3/8	3/8	42506N-606	9/16-18	2.79	1.63	.27	15/16	11/16
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
2	2	42532N-632	2-1/2-12	5.80	3.88	1.73	3	3

†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 45° and 37° connections.

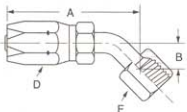
SAE 45° Female Swivel


HOSE I.D.	TUBE SIZE	CATALOG 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

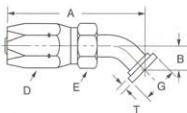
**Split Flange Straight
(SAE Code 61)**


HOSE I.D.	NOM. FLANGE SIZE	CATALOG 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 (38mm)	.26†
1	1	42516N-G16	16x252	4.02	2.50	.76	1-3/4	1-1/4	1.75 (44mm)	.31†
1-1/4	1-1/4	42520N-G20	20x252	5.32	3.50	1.01	2-1/4	1-5/8	2.00 (51mm)	.31†

(For Split Flange Kits, see page 317-320.)

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


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
1/4	1/4	42504N-684 ^a	7/16-20	2.86	.33	1.81	.15	13/16	9/16
3/8	3/8	42506N-686	9/16-18	3.15	.39	2.00	.25	15/16	11/16
1/2	1/2	42508N-688 ^a	3/4-16	3.46	.56	2.25	.36	1-1/16	7/8
1/2	5/8	42508N-690 ^a	7/8-14	3.92	.64	2.50	.36	1-1/16	1
3/4	3/4	42512N-692	1-1/16-12	4.17	.73	2.88	.55	1-3/8	1-1/4
1	1	42516N-696	1-5/16-12	5.42	1.10	3.75	.76	1-3/4	1-1/2

**Split Flange 45° Tube
Elbow (SAE Code 61)**


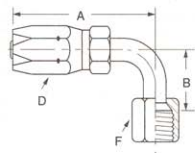
HOSE I.D.	NOM. FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E	G	T
3/4	3/4	42512N-G42	12x252	4.47	1.00	3.13	.58	1-3/8	15/16	1.50 (38mm)	.26†
1	1	42516N-G46	16x252	5.15	1.06	3.56	.76	1-3/4	1-1/4	1.75 (44mm)	.31†
1-1/4	1-1/4	42520N-G50	20x252	5.32	1.15	3.44	1.01	2-1/4	1-5/8	2.00 (51mm)	.31†

(For Split Flange Kits, see page 317-320.)

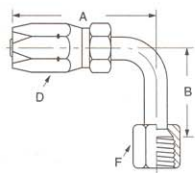
**Field Attachable
425 'N' Series**

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

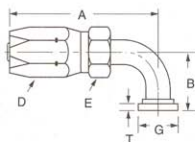
^a Swivel nuts are universal – both SAE 45° and 37° connections.

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


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR†			HOLE DIA.	HEX D	HEX F
				A	B				
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

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


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR†			HOLE DIA.	HEX D	HEX F
				A	B				
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

**Split Flange 90° Tube
Elbow (SAE Code 61)**


HOSE I.D.	NOM. FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	HOSE CUT-OFF FACTOR†			HOLE DIA.	HEX D	HEX E	G	T
				A	B						
3/4	3/4 (38mm)	42512N-G72	12x252	3.95	2.13	2.75	.58	1-3/8	15/16	1.50 (38mm)	.265
3/4	1 (44mm)	42512N-G76	16x252	4.06	2.13	2.75	.58	1-3/8	15/16	1.75 (44mm)	.315
1	1 (44mm)	42516N-G76	16x252	4.81	2.38	3.25	.88	1-3/4	1-1/4	1.75 (44mm)	.315
1-1/4	1-1/4 (51mm)	42520N-G80	20x252	5.47	2.62	3.56	1.03	2-1/4	1-5/8	2.00 (51mm)	.315
1-1/4	1-1/2 (60mm)	42520N-G84	24x252	5.49	2.75	3.63	1.05	2-1/4	1-7/8	2.37 (60mm)	.315

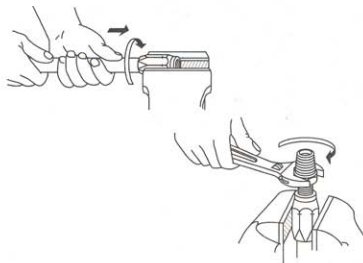
(For Split Flange Kits, see page 317-320.)

COLL-CRIMP

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.

Hose End 436 'N' Series



⚠ Refer to important safety information on page 3 of this catalog.

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

Compatible Hose: H435; H43.

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See page 11-13 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; yellow dichromate finish

Advantages: Good selection of hose ends. Non-mandrel assembly.

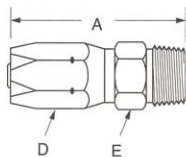
Ordering Information: Order individually by catalog number.

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.

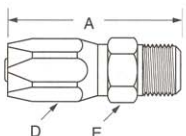
Note: Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

Male Pipe Rigid



HOSE I.D.	PIPE SIZE	CATALOG 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	43606N-104	1/4-18	2.50	1.31	.27	7/8	9/16
3/8	3/8	43606N-106	3/8-18	2.53	1.38	.27	7/8	11/16
1/2	3/8	43608N-106	3/8-18	2.58	1.31	.39	1-1/16	11/16
1/2	1/2	43608N-108	1/2-14	2.83	1.56	.39	1-1/16	7/8
3/4	3/4	43612N-112	3/4-14	2.98	1.63	.61	1-3/8	1-1/16
1	1	43616N-116	1-11-1/2	3.59	1.94	.81	1-11/16	1-3/8

JIC 37° Male Rigid

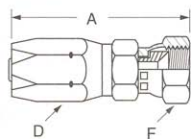


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E
1/4	1/4	43604N-504	7/16-20	1.99	1.19	.17	5/8	1/2
1/4	5/16	43604N-505	1/2-20	1.96	1.19	.18	5/8	9/16
3/8	3/8	43606N-506	9/16-18	2.53	1.38	.27	7/8	5/8
3/8	1/2	43606N-508	3/4-16	2.69	1.50	.27	7/8	13/16
1/2	1/2	43608N-508	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

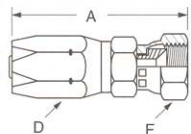
**Field Attachable
436 'N' Series**

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

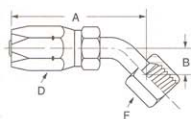
‡Swivel nuts are universal – both SAE 45° and 37° connections.

SAE 37° Female Swivel
(Exceptions Noted, Refer to Footnotes)


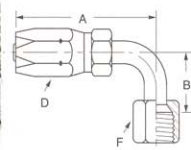
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
1/4	1/4	43604N-604 [‡]	7/16-20	2.13	1.31	.17	5/8	9/16
1/4	5/16	43604N-605 [‡]	1/2-20	2.23	1.44	.18	5/8	5/8
1/4	3/8	43604N-606	9/16-18	2.24	1.44	.18	5/8	11/16
3/8	3/8	43606N-606	9/16-18	2.79	1.63	.27	7/8	11/16
3/8	1/2	43606N-608 [‡]	3/4-16	2.96	1.81	.27	7/8	7/8
1/2	1/2	43608N-608 [‡]	3/4-16	3.01	1.75	.39	1-1/16	7/8
1/2	5/8	43608N-610 [‡]	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

SAE 45° Female Swivel


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
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.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
1/4	1/4	43604N-684 [‡]	7/16-20	2.49	.33	1.69	.18	5/8	9/16

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


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
1/4	1/4	43604N-664 [‡]	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 [‡]	3/4-16	3.28	1.09	2.00	.33	1-1/16	7/8