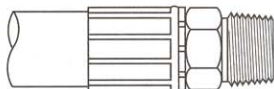


†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

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.

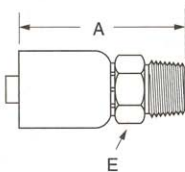
Assemble With: T-400-1*, T-410-1, T-420-1, T-440-1, T-480.

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.

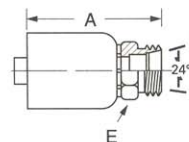
Label Set: FS-3700

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

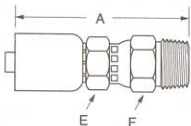
Male DIN Universal Seat l. Rh. (Light)



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.

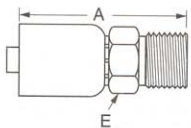
Male Pipe Swivel



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.)

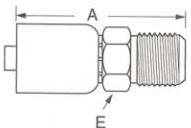
FOR-SEAL® Male Rigid



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.

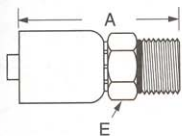
SAE 37° Male Rigid



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.

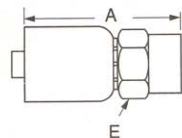
Male Straight Thread O-Ring Rigid



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

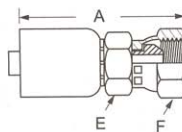
Includes o-ring. For replacement o-ring see page 254.

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)



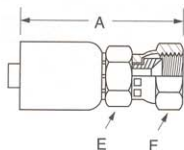
HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04W-054	1/4-18	2.20	1.19	.16	1/2	11/16
3/8	3/8	06W-056	3/8-18	2.27	1.22	.26	5/8	7/8
1/2	1/2	08W-058	1/2-14	2.77	1.59	.36	13/16	1

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.

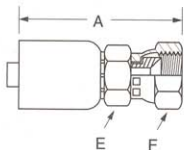
^a Swivel nuts are universal – both SAE 37° and 45° connections.

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



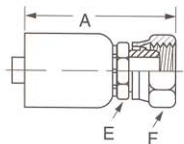
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04W-604 ^a	7/16-20	2.18	1.17	.16	7/16	9/16
1/4	5/16	04W-605 ^a	1/2-20	2.31	1.30	.16	1/2	5/8
1/4	3/8	04W-606	9/16-18	2.40	1.39	.16	9/16	11/16
3/8	1/4	06W-604 ^a	7/16-20	2.18	1.13	.17	9/16	9/16
3/8	3/8	06W-606	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

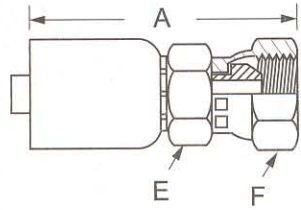
Female Swivel DIN
 Universal Seat
 I. Rh. (Light) (DIN 3901/3902)



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.

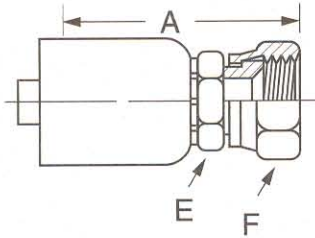
British Standard (BSPP) 60° Cone Female Pipe Swivel



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.

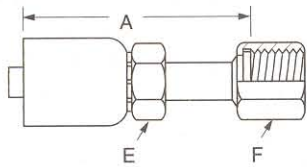
Female JIS 30° Flare Parallel Pipe Swivel



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



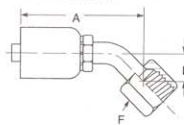
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/4	1/4	04W-J64*	9/16-18	2.37	1.36	.16	9/16	11/16
1/4	3/8	04W-J66*	11/16-16	2.40	1.39	.16	5/8	13/16
3/8	3/8	06W-J66*	11/16-16	2.44	1.39	.26	5/8	13/16
3/8	1/2	06W-J68*	13/16-16	2.48	1.43	.26	3/4	15/16
1/2	3/8	08W-J66*	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.

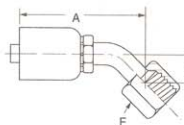
^a Swivel nuts are universal – both SAE 37° and 45° connections.

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



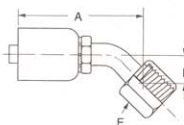
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04W-684 ^a	7/16-20	2.61	.33	1.60	.15	9/16
3/8	3/8	06W-686	9/16-18	2.79	.39	1.74	.24	11/16
3/8	1/2	06W-688 ^a	3/4-16	3.12	.55	2.07	.26	7/8
1/2	1/2	08W-688 ^a	3/4-16	3.30	.55	2.12	.33	7/8
1/2	5/8	08W-690 ^a	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



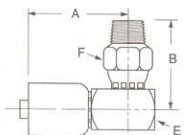
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/8	3/8	06W-486	5/8-18	2.79	.39	1.74	.24	3/4

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

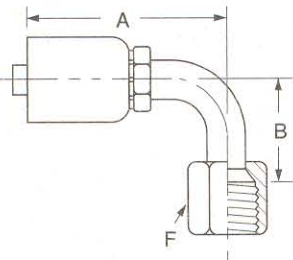
Note: Swivel for installation purpose only.
(Not for temperatures above 212°F)

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.

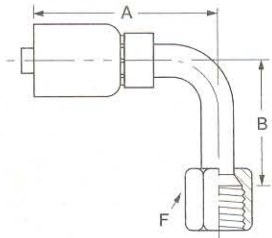
^a Swivel nuts are universal – both SAE 37° and 45° connections.

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



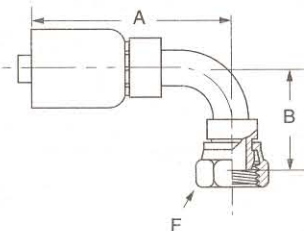
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04W-664 ^a	7/16-20	2.47	.68	1.46	.15	9/16
1/4	3/8	04W-666	9/16-18	2.76	.85	1.75	.16	11-16
3/8	3/8	06W-666	9/16-18	2.74	.85	1.69	.24	1/16
3/8	1/2	06W-668 ^a	3/4-16	2.92	1.09	1.87	.27	7/8
1/2	1/2	08W-668 ^a	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

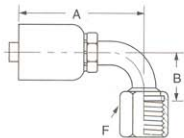


HOSE I.D.	BSPP PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
3/8	3/8	06W-76P	G-3/8-19*	2.84	1.60	1.79	.24	7/8

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

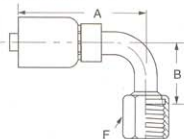
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

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



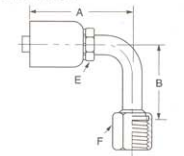
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F
1/4	1/4	04W-A24	9/16-18	2.58	.81	1.56	.16	11/16
1/4	3/8	04W-A26	11/16-16	2.83	.90	1.82	.16	13/16
3/8	3/8	06W-A26	11/16-16	2.79	.90	1.74	.24	13/16
3/8	1/2	06W-A28	13/16-16	2.96	1.15	1.91	.26	15/16
1/2	1/2	08W-A28	13/16-16	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



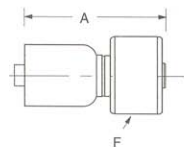
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX F	HEX/DIA. E
3/8	3/8	06W-J36	11/16-16	3.05	1.51	2.00	.24	13/16	5/8
1/2	1/2	08W-J38	13/16-16	3.12	1.62	1.94	.33	15/16	11/16
3/4	3/4	12W-J42	1-3/16-12	4.09	2.28	2.67	.56	1-3/8	1

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