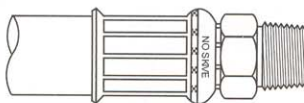



†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

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.

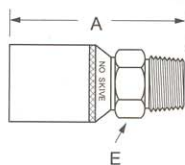
Assemble With: T-410-1 Coll-O-Crimp II, T-420-1 Coll-O-Crimp Super I, T-440-1 Coll-O-Crimp II Plus or T-480.

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.

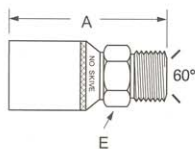
Label Set: FS-3100

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.

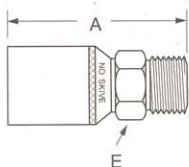
COLL-CRIMP

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.

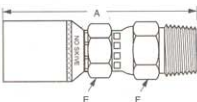
FOR-SEAL® Male Rigid



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.

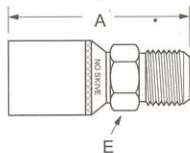
Male Pipe Swivel



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

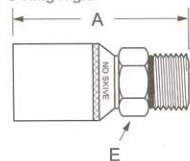
Note: Swivel for installation purposes only.
(Not for temperatures above 212°F)

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

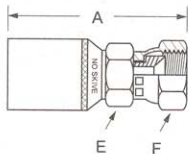
COLLOCRIMP

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.

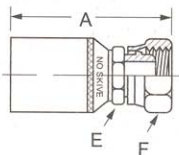
‡ Swivel nuts are universal – both SAE 45° and 37° connections.

JIC 37° Female Swivel (Refer to Footnotes)



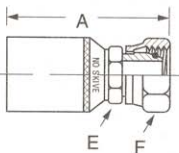
HOSE LD	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
1/2	3/8	43008U-606	9/16-18	3.56	1.69	.34	13/16	11/16
1/2	1/2	43008U-608 [‡]	3/4-16	3.67	1.75	.34	13/16	7/8
1/2	5/8	43008U-610 [‡]	7/8-14	3.72	1.81	.34	13/16	1
1/2	3/4	43008U-612	1-1/16-12	3.76	1.88	.34	1	1-1/4
3/4	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 l. 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)

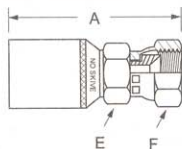


HOSE LD	TUBE SIZE (MM)	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX E	HEX F
3/4	20	43012U-70C	M30x2.0	3.68	1.69	.61	1-1/8	1-7/16
3/4	25	43012U-75C	M36x2.0	4.14	2.13	.61	1-1/4	1-5/8
1	30	43016U-80C	M42x2.0	4.07	2.00	.81	1-5/8	2
1-1/4	30	43020U-80C	M42x2.0	4.32	2.00	1.02	1-5/8	2

(Includes O-Ring)

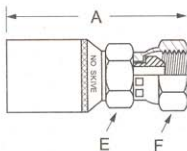
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

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

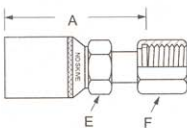
British Standard (BSPP) 60° Cone Female Pipe Swivel



HOSE I.D.	BSPP 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

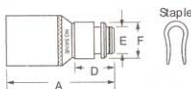
*G As Part of Thread Size is ISO Designated for Parallel Thread.

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)

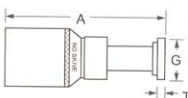


HOSE I.D.	CONNECTION SIZE	CATALOG NUMBER	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	LENGTH D	DIA. E	DIA. F
1/2	1/2	43008U-08S	3.31	1.43	.34	.94	.70	.94
3/4	3/4	43012U-12S	3.53	1.50	.61	1.14	.94	1.14
1	1	43016U-16S	3.76	1.75	.81	1.34	1.21	1.53
1-1/4	1-1/4	43020U-20S	4.01	1.75	1.02	1.34	1.49	1.80
1-1/2	1-1/2	43024U-24S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

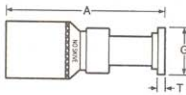
Split Flange Straight
(SAE Code 61)



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.)

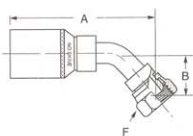
COLL-CRIMP

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.

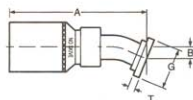
British Standard 60° Cone (BSPP) Female Swivel 45° Tube Elbow



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)

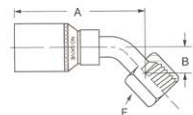


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T NOMINA
1/2	1/2	43008U-H01	8x252	4.45	.38	2.56	.34	1.19 (30mm)	.265
1/2	3/4	43008U-H02	12x252	4.50	.40	2.63	.34	1.50 (38mm)	.265
3/4	3/4	43012U-H02	12x252	4.81	.44	2.81	.56	1.50 (38mm)	.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

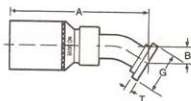
(Refer to Footnotes)



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.

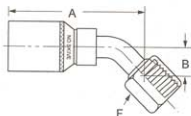
Split Flange 30° Tube Elbow (SAE Code 61)



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

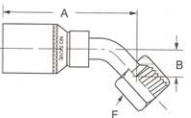
(For Split Flange Kits, see page 317-320.)

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

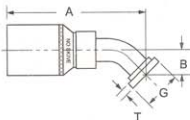
JIC 37° Female Swivel 60° Tube Elbow



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.

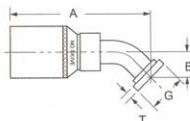
Split Flange 45° Tube Elbow (SAE Code 61)



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)

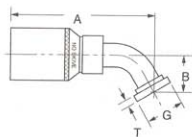


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	HOSE CUT-OFF FACTOR		HOLE DIA.	DIA. G	T NOMINAL	
				A	B				
1/2	1/2	43008U-D41	8x252	4.82	.94	2.94	.34	1.25 (32mm)	.345
1/2	3/4	43008U-D42	12x252	4.82	1.00	2.94	.34	1.62 (41mm)	.345
3/4	3/4	43012U-D42	12x252	5.19	1.27	3.19	.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.

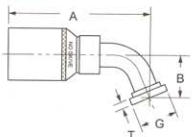
Split Flange 60° Tube Elbow (SAE Code 61)



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.)

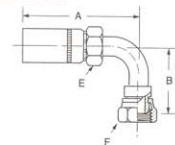
Split Flange 67-1/2° Tube Elbow (SAE Code 61)



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



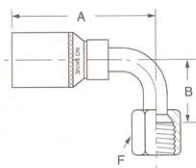
HOSE I.D.	BSPP SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR†		HOLE DIA.	HEX E	HEX F	
				A	B				
3/4	3/4	43012U-82P	G-3/4-14*	4.58	2.46	2.97	.56	1-1/8	1-1/4
1	1	43016U-86P	G-1-11*	5.05	3.09	3.03	.76	1-1/4	1-1/2

*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.

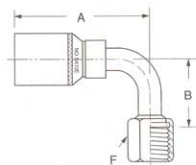
JIC 37° Female Swivel 90° Tube Elbow
(Refer to Footnotes)



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

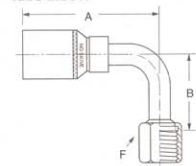
⁺Crimp style swivel nut.

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

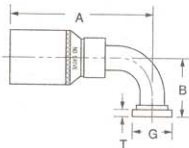
Female FOR-SEAL® Swivel Long Drop 90° Tube Elbow



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)

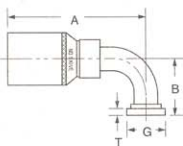


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	DIA. G	T
1/2	1/2	43008U-G71	8x252	4.18	1.63	2.25	.34	1.19 (30mm)	.265
1/2	1/2	43008U-G71L32	8x252	4.04	3.20	2.13	.34	1.19 (30mm)	.265
1/2	3/4	43008U-G72	12x252	4.53	1.68	2.63	.34	1.50 (38mm)	.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.

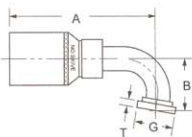
Split Flange 90° Tube Elbow (SAE Code 62)



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.)

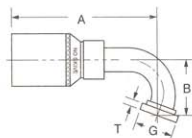
Split Flange 100° Tube Elbow (SAE Code 61)



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)

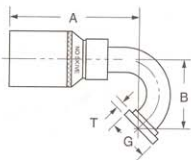


HOSE I.D.	NOMINAL FLANGE SIZE	CATALOG NUMBER	REPLACEMENT O-RING (NOT INCLUDED)	A	B	HOSE CUT-OFF FACTOR	HOLE DIA.	DIA. G	T NOMINAL
1	1	43016U-H83	16x252	4.46	2.89	2.44	.76	1.75 (44mm)	.315
1-1/4	1-1/4	43020U-H84	20x252	4.82	3.12	2.56	1.01	2.00 (51mm)	.315
1-1/4	1-1/2	43020U-H85	24x252	5.24	3.17	2.94	1.01	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
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.)