Hose Connectors, Accessories, and Hose Adapters

Hose Connectors

Swagelok® hose connectors allow easy installation of soft plastic or rubber tubing.

- 316 stainless steel or brass.
- Shank design holds tubing inside diameter securely.
- Reusable.

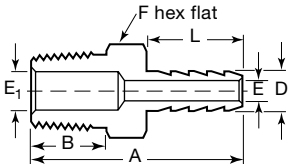
Ordering Information

Add **SS** for 316 stainless steel or **B** for brass to the basic ordering number.

Example: **SS**-2-HC-1-2

Male Connectors

NPT

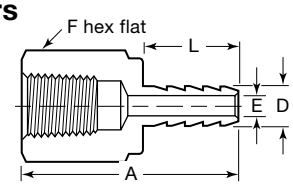


Hose ID in.	Pipe Size in.	Basic Ordering Number	Dimensions, in.						
			A	B	D	E	E_1	F	L
1/8	1/8 1/4	-2-HC-1-2 -2-HC-1-4	1.08 1.26	0.38 0.56	0.15	0.08	0.19 0.28	7/16 9/16	0.40
3/16	1/8 1/4	-3-HC-1-2 -3-HC-1-4	1.27 1.45	0.38 0.56	0.23	0.12	0.12 0.28	7/16 9/16	0.59
1/4	1/8 1/4 3/8 1/2	-4-HC-1-2 -4-HC-1-4 -4-HC-1-6 -4-HC-1-8	1.47 1.65 1.66 1.85	0.38 0.56 0.56 0.75	0.30	0.19	0.19 0.19 0.19 0.47	7/16 9/16 11/16 7/8	0.79
5/16	1/8 1/4 3/8 1/2	-5-HC-1-2 -5-HC-1-4 -5-HC-1-6 -5-HC-1-8	1.55 1.73 1.74 1.96	0.38 0.56 0.56 0.75	0.38	0.19	0.19 0.19 0.19 0.47	7/16 9/16 11/16 7/8	0.87
3/8	1/4 3/8 1/2	-6-HC-1-4 -6-HC-1-6 -6-HC-1-8	1.73 1.74 1.96	0.56 0.56 0.75	0.45	0.30	0.30	9/16 11/16 7/8	0.87
1/2	1/4 3/8 1/2	-8-HC-1-4 -8-HC-1-6 -8-HC-1-8	1.80 1.81 2.03	0.56 0.56 0.75	0.60	0.38	0.28 0.38 0.38	11/16 11/16 7/8	0.94
5/8	3/8 1/2 3/4	-10-HC-1-6 -10-HC-1-8 -10-HC-1-12	1.88 2.07 2.07	0.56 0.75 0.75	0.75	0.50 0.47 0.50	0.38 0.47 0.63	1 1/16	0.98
3/4	1/2 3/4 1	-12-HC-1-8 -12-HC-1-12 -12-HC-1-16	2.14 2.14 2.43	0.75 0.75 0.94	0.90	0.63	0.47 0.63 0.88	1 1/16 1 1/16 1 3/8	1.05
1	3/4 1	-16-HC-1-12 -16-HC-1-16	2.38 2.57	0.75 0.94	1.20	0.88	0.63 0.88	1 3/8	1.19

ISO R7/1

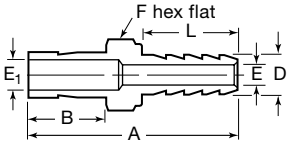
Hose ID in.	Pipe Size in.	Basic Ordering Number	Dimensions, in.						
			A	B	D	E	E_1	F	L
1/8	1/8	-2-HC-1-2RT	1.28	0.38	0.15	0.08	0.19	7/16	0.40
1/4	1/8 1/4 3/8	-4-HC-1-2RT -4-HC-1-4RT -4-HC-1-6RT	1.47 1.65 1.66	0.38 0.56 0.56	0.30	0.19	0.19	7/16 9/16 11/16	0.79
3/8	1/4 3/8 1/2	-6-HC-1-4RT -6-HC-1-6RT -6-HC-1-8RT	1.73 1.74 1.96	0.56 0.56 0.75	0.45	0.30	0.30	9/16 11/16 7/8	0.87
1/2	1/2	-8-HC-1-8RT	2.03	0.75	0.60	0.38	0.47	7/8	0.94

Female Connectors



Hose ID in.	Pipe Size in.	Basic Ordering Number	Dimensions, in.				
			A	D	E	F	L
1/8	1/8 1/4	-2-HC-7-2 -2-HC-7-4	1.11 1.26	0.15	0.08	9/16 3/4	0.40
3/16	1/8 1/4	-3-HC-7-2 -3-HC-7-4	1.29 1.44	0.23	0.12	9/16 3/4	0.59
1/4	1/8 1/4 3/8	-4-HC-7-2 -4-HC-7-4 -4-HC-7-6	1.47 1.64 1.71	0.30	0.19	9/16 3/4 7/8	0.79
5/16	1/4 3/8	-5-HC-7-4 -5-HC-7-6	1.73 1.82	0.38	0.19	3/4 7/8	0.87
3/8	1/4 3/8 1/2	-6-HC-7-4 -6-HC-7-6 -6-HC-7-8	1.69 1.78 2.03	0.45	0.30	3/4 7/8 1 1/16	0.87
1/2	1/2	-8-HC-7-8	2.13	0.60	0.38	1 1/16	0.94

Tube Adapters



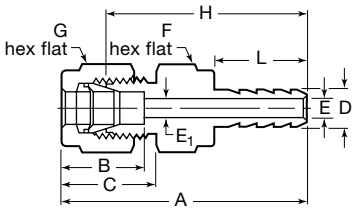
Hose ID in.	Pipe Size in.	Basic Ordering Number	Dimensions, in.						
			A	B	D	E	E_1	F	L
1/8	1/8 1/4	-2-HC-A-201 -2-HC-A-401	1.36 1.46	0.54 0.64	0.15	0.08	0.09 0.19	5/16 3/8	0.40
1/4	1/4 3/8 6 mm	-4-HC-A-401 -4-HC-A-601 -4-HC-A-6MTA	1.85 1.91 1.88	0.64 0.70 0.64	0.30	0.19	0.19 0.28 0.18	7/16	0.79
5/16	1/4	-5-HC-A-401	1.93	0.64	0.37	0.19	0.19	7/16	0.87
3/8	1/4 3/8 1/2	-6-HC-A-401 -6-HC-A-601 -6-HC-A-811	1.93 1.99 2.25	0.64 0.70 0.96	0.45	0.30	0.17 0.28 0.39	9/16 9/16 5/8	0.87
1/2	3/8 1/2	-8-HC-A-601 -8-HC-A-811	2.06 2.32	0.70 0.96	0.60	0.38	0.28 0.39	11/16	0.94
3/4	3/4	-12-HC-A-1211	2.49	1.02	0.90	0.63	0.59	1 3/16	1.05
1	1	-16-HC-A-1611	3.02	1.30	1.20	0.88	0.80	1 3/8	1.19

Swagelok tube adapters are to be used only with Swagelok tube fittings.

Dimensions are for reference only and are subject to change.

Swagelok®

Swagelok Tube Fittings

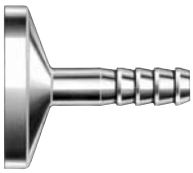


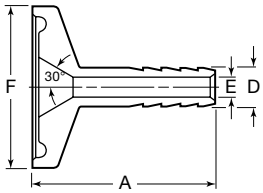
Hose ID in.	Tube Size in.	Basic Ordering Number	Dimensions, in.								
			A	B	D	E	E_1	F	G	H	L
1/8	1/8	-2-HC-1-200	1.46	0.60	0.15	0.08	0.08	7/16	7/16	1.17	0.40
1/4	1/8 1/4	-4-HC-1-200 -4-HC-1-400	1.85 1.94	0.70	0.30	0.09 0.19	0.19	7/16 9/16	7/16 9/16	1.56 1.63	0.79
3/8	1/4 3/8	-6-HC-1-400 -6-HC-1-600	2.01 2.06	0.76	0.45	0.19 0.30	0.30	9/16 3/4	9/16 11/16	1.70 1.77	0.87
1/2	1/2	-8-HC-1-810	2.24	0.86	0.60	0.38	0.41	7/8	7/8	1.84	0.94

Caution: Do not mix or interchange parts with those of other manufacturers.

Sanitary Clamp Fittings

- Adapt to typical sanitary clamp fitting.
- Smooth internal finish (20 µin. R_a) and tapered orifice reduce entrapment and facilitate cleaning.



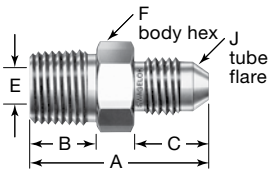


Hose Size in.	Clamp Size in.	Ordering Number	Dimensions, in.			
			A	D	E	F
3/16 1/4 3/8 1/2	1/2	SS-3-HC-8SC SS-4-HC-8SC SS-6-HC-8SC SS-8-HC-8SC①	1.10 1.28 1.36 1.44	0.23 0.30 0.45 0.60	0.12 0.19 0.30 0.38	0.98
3/16 1/4 3/8 1/2	1	SS-3-HC-16SC SS-4-HC-16SC SS-6-HC-16SC SS-8-HC-16SC	1.50	0.23 0.30 0.45 0.60	0.12 0.19 0.30 0.38	1.98

① Without 30° inside diameter taper.

Hose Adapters

Adapt JIC (AN) female swivel to male NPT or SAE straight thread. Add **SS** for 316 SS or **S** for steel to the basic ordering number. Example: **SS**-4-AN-1-4



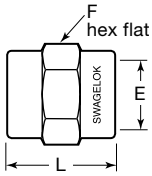
JIC Thread Size	Pipe Size in.	Basic Ordering Number	Dimensions, in.					
			A	B	C	E	F	J
NPT								
7/16-20	1/4	-4-AN-1-4	1.40	0.56	0.55	0.17	9/16	1/4
9/16-18	1/4	-6-AN-1-4	1.43	0.56	0.56	0.28	5/8	3/8
9/16-18	3/8	-6-AN-1-6	1.43	0.56	0.56	0.30	11/16	3/8
3/4-16	1/2	-8-AN-1-8	1.75	0.75	0.66	0.39	7/8	1/2
1 1/16-12	3/4	-12-AN-1-12	1.99	0.75	0.86	0.61	1 1/8	3/4
1 5/16-12	1	-16-AN-1-16	2.30	0.94	0.91	0.84	1 3/8	1
SAE								
7/16-20	7/16	-4-SAE-1-4AN	1.19	0.36	0.55	0.17	9/16	1/4
9/16-18	9/16	-6-SAE-1-6AN	1.26	0.39	0.56	0.29	11/16	3/8
3/4-16	3/4	-8-SAE-1-8AN	1.44	0.44	0.66	0.39	7/8	1/2
1 1/16-12	1 1/16	-12-SAE-1-12AN	1.87	0.59	0.86	0.61	1 1/4	3/4
1 5/16-12	1 5/16	-16-SAE-1-16AN	1.98	0.59	0.91	0.84	1 1/2	1

Dimensions are for reference only and are subject to change.

Accessories

Hose Connector Sleeves

- Used to secure soft plastic or rubber tubing to Swagelok hose connectors.
- Constructed of aluminum.
- Easily installed with a wrench.
- Reusable.



Hose ID in.	Hose OD in.	Ordering Number	Dimensions, in.		
			E	F	L
1/8	1/4	A-2-L-4	0.26	3/8	0.40
1/4	3/8	A-4-L-6	0.41	9/16	0.79
1/4	7/16	A-4-L-7	0.46	5/8	0.79
1/4	1/2	A-4-L-8	0.52	11/16	0.79
5/16	7/16	A-5-L-7	0.48	5/8	0.87
3/8	1/2	A-6-L-8	0.55	11/16	0.87
3/8	9/16	A-6-L-9	0.61	3/4	0.87
7/16	5/8	A-7-L-10	0.69	13/16	0.94
1/2	11/16	A-8-L-11	0.76	7/8	0.94
3/4	1	A-12-L-16	1.10	1 1/4	1.07

Hose Clamps

- Nonmagnetic, corrosion resistant.
- 4-corner clinched saddle and housing.
- No spot welds to corrode or break.
- Smooth inside diameter surface provides high sealing pressure with no pressure points and reduces torque on screw.

Materials

Band, saddle, housing:
302-SS
Screw:
305 SS

Ordering Number	Bend Marking	Min Hose OD in.	Max Hose OD in.
MS-HCC-6	6	7/16	25/32
MS-HCC-8	8	1/2	29/32
MS-HCC-10	10	9/16	1 1/16
MS-HCC-12	12	11/16	1 1/4
MS-HCC-16	16	13/16	1 1/2

Vinyl Tubing

Tubing with Swagelok HC Connector

Temperature range: –40 to 165°F (–40 to 73°C)

See the Swagelok *Vinyl Tubing* catalog, MS-01-108.

Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.

Safe Product Selection
When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

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