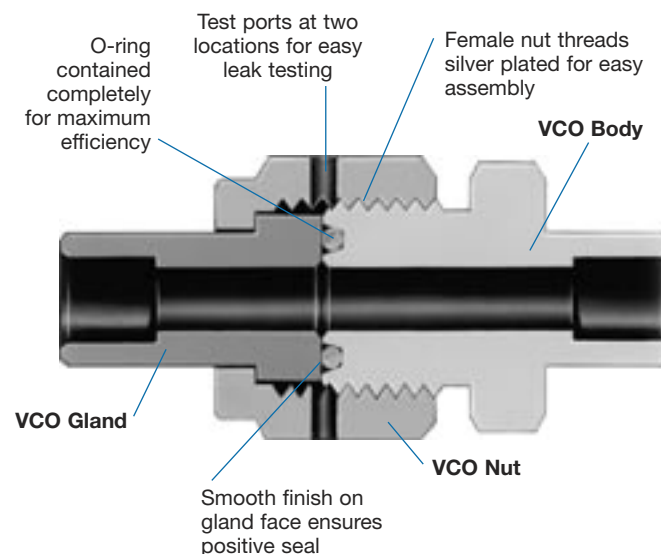


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Features

Swagelok VCO O-ring face seal fittings are designed for rapid make-up in pipe, tube, and welded systems. Their unique design allows easy installation where space is limited. No axial clearance is required. Sealing is accomplished with a captive O-ring in the body component. Assemblies can be used from high pressure to critical vacuum, within a wide range of temperatures.



Technical Data

Materials of Construction

Component	Material
Bodies, glands, nuts	316 SS
Automatic tube weld fittings	316L SS
O-ring, VCO bodies	Fluorocarbon FKM (70 durometer)
O-ring, SAE/MS threads	Fluorocarbon FKM (90 durometer)
Lubricant	Silicone-based

O-ring Uniform Size Number

VCO Size in.	O-ring Uniform Size Number
1/8 and 1/4	010
3/8 and 1/2	111
3/4	116
1	215

SAE/MS Thread Size	O-ring Uniform Size Number
7/16-20	-904
9/16-18	-906
3/4-16	-908
1 1/16-12	-912
1 5/16-12	-916

Pressure Ratings

Pressure ratings published in this catalog are calculated in accordance with ASME B31.3, Process Piping. The listed pressure ratings are based on allowable stress values for temperatures up to 100°F (37°C). To determine pressure ratings in accordance with ASME B31.1, Power Piping, multiply rating by 0.94.

Temperature Ratings

Temperature ratings for VCO fittings are determined by the O-ring materials used.

Material	Temperature Rating °F (°C)
Fluorocarbon FKM	400 (204)
Buna N	250 (121)
PTFE	450 (232)
Perfluoroelastomer	550 (287)
Ethylene propylene	300 (148)

Testing

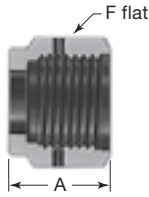
The VCO face seal fitting design has been helium leak tested to a maximum leak rate of 4×10^{-9} std cm³/s.

Ordering Information and Dimensions

- Dimensions are for reference only and are subject to change.
- The E dimension refers to the smallest nominal inside diameter of the part.

Nuts

Female



VCO Size in.	Ordering Number	Dimensions, in. (mm)	
		A	F
1/8 and 1/4	SS-4-VCO-4	0.66 (16.8)	11/16
3/8 and 1/2	SS-8-VCO-4	0.69 (17.5)	1
3/4	SS-12-VCO-4	0.81 (20.6)	1 1/2
1	SS-16-VCO-4	0.81 (20.6)	1 3/4

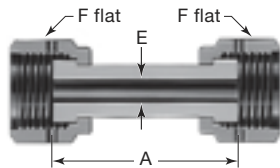
Blind



VCO Size in.	Ordering Number	Dimensions, in. (mm)	
		A	F
1/8 and 1/4	SS-4-VCO-4-BL	0.44 (11.2)	11/16
3/8 and 1/2	SS-8-VCO-4-BL	0.56 (14.2)	1
3/4	SS-12-VCO-4-BL	0.75 (19.1)	1 1/2
1	SS-16-VCO-4-BL	0.81 (20.6)	1 3/4

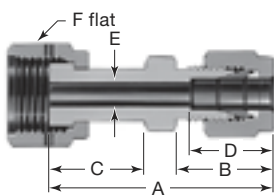
Glands

Union



VCO Size in.	Ordering Number	Dimensions, in. (mm)			Pressure Rating psig (bar)
		A	E	F	
1/4	SS-4-WVCO-6-DF	1.42 (36.1)	0.18 (4.6)	11/16	10 200 (702)
1/2	SS-8-WVCO-6-DF	1.61 (40.9)	0.40 (10.2)	1	5 800 (399)

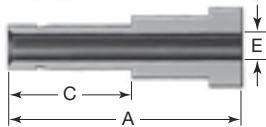
Swagelok Tube Fitting Connector



VCO Size in.	Tube OD in.	Ordering Number	Dimensions, in. (mm)						Pressure Rating psig (bar)
			A	B	C	D	E	F	
1/4	1/4	SS-4-WVCO-6-400	1.74 (44.2)	0.70 (17.8)	0.77 (19.6)	0.60 (15.2)	0.18 (4.6)	11/16	10 200 (702)
1/2	3/8	SS-8-WVCO-6-600	1.87 (47.5)	0.76 (19.3)	0.81 (20.6)	0.66 (16.8)	0.28 (7.1)	1	5 800 (399)
	1/2	SS-8-WVCO-6-810	2.01 (51.1)	0.87 (22.1)		0.90 (22.9)	0.40 (10.2)		
3/4	3/4	SS-12-WVCO-6-1210	2.14 (54.4)	0.87 (22.1)	0.94 (23.9)	0.96 (24.4)	0.62 (15.7)	1 1/2	4 000 (275)
1	1	SS-16-WVCO-6-1610	2.45 (62.2)	1.04 (26.4)	0.98 (24.9)	1.23 (31.2)	0.87 (22.1)	1 3/4	3 000 (206)

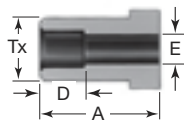
Glands

Tube Adapter



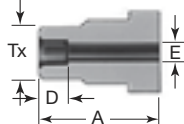
VCO Size in.	Tube OD in.	Ordering Number	Dimensions, in. (mm)			Pressure Rating psig (bar)
			A	C	E	
1/4	1/4	SS-4-VCO-3-4TA	1.31 (33.3)	0.64 (16.3)	0.18 (4.6)	10 200 (702)
1/2	3/8	SS-8-VCO-3-6TA	1.38 (35.1)	0.70 (17.8)	0.27 (6.8)	6 500 (447)
	1/2	SS-8-VCO-3-8TA	1.62 (41.1)	0.96 (24.4)	0.37 (9.3)	6 700 (461)
3/4	3/4	SS-12-VCO-3-12TA	1.80 (45.7)	1.02 (25.9)	0.58 (14.7)	5 800 (399)
1	1	SS-16-VCO-3-16TA	2.05 (52.1)	1.30 (33.0)	0.80 (20.3)	4 700 (323)

Tube Socket Weld



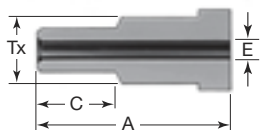
VCO Size in.	Tube OD in.	Ordering Number	Dimensions, in. (mm)				Pressure Rating psig (bar)
			A	D	E	Tx	
1/8	1/8	SS-2-VCO-3	0.77 (19.6)	0.10 (2.5)	0.09 (2.3)	0.38 (9.7)	15 400 (1061)
1/4	1/4	SS-4-VCO-3	0.77 (19.6)	0.28 (7.1)	0.18 (4.6)	0.38 (9.7)	6 800 (468)
3/8	3/8	SS-6-VCO-3	0.81 (20.6)	0.31 (7.9)	0.28 (7.1)	0.60 (15.2)	8 100 (558)
1/2	1/2	SS-8-VCO-3	0.81 (20.6)	0.38 (9.7)	0.40 (10.2)	0.60 (15.2)	3 000 (206)
3/4	3/4	SS-12-VCO-3	0.94 (23.9)	0.44 (11.2)	0.62 (15.7)	0.92 (23.4)	3 700 (255)
1	1	SS-16-VCO-3	0.98 (24.9)	0.62 (15.7)	0.87 (22.1)	1.19 (30.2)	3 000 (206)

Tube Socket Weld Reducing



VCO Size in.	Tube OD in.	Ordering Number	Dimensions, in. (mm)				Pressure Rating psig (bar)
			A	D	E	Tx	
1/4	1/8	SS-4-VCO-3-2TSW	0.77 (19.6)	0.10 (2.5)	0.09 (2.3)	0.29 (7.4)	12 600 (868)
1/2	1/4	SS-8-VCO-3-4TSW	0.81 (20.6)	0.28 (7.1)	0.18 (4.6)	0.48 (12.2)	10 700 (737)

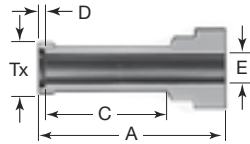
Male Tube Weld



VCO Size in.	Tube OD in.	Ordering Number	Dimensions, in. (mm)				Pressure Rating psig (bar)
			A	C	E	Tx	
1/4	1/8	SS-4-VCO-3-2MTW	0.77 (19.6)	0.28 (7.1)	0.06 (1.5)	0.38 (9.7)	11 200 (771)
	1/4	SS-4-VCO-3-4MTW	1.12 (28.4)	0.41 (10.4)	0.12 (3.0)		
1/2	1/4	SS-8-VCO-3-4MTW	0.91 (23.1)	0.41 (10.4)	0.12 (3.0)	0.60 (15.2)	11 200 (771)
	3/8	SS-8-VCO-3-6MTW	0.84 (21.3)		0.23 (5.8)		8 200 (564)
	1/2	SS-8-VCO-3-8MTW	1.06 (26.9)	0.50 (12.7)	0.33 (8.4)		7 500 (516)

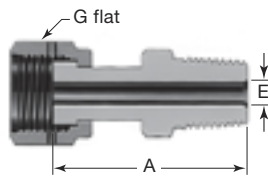
Glands

Automatic Tube Weld



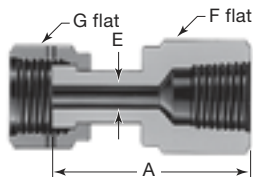
VCO Size in.	Tube OD in.	Ordering Number	Dimensions, in. (mm)						Pressure Rating psig (bar)
			A	C	D	E	Tx	Wall Thickness	
1/4	1/4	316L-4-VCO-3A	1.12 (28.4)	0.78 (19.8)	0.02 (0.51)	0.18 (4.6)	0.29 (7.4)	0.035	5100 (351)
1/2	3/8	316L-8-VCO-3A6	1.13 (28.7)	0.79 (20.0)	0.03 (0.76)	0.31 (7.9)	0.41 (10.4)	0.035	3300 (227)
	1/2	316L-8-VCO-3A	1.14 (29.0)	0.80 (20.3)	0.04 (1.0)	0.40 (10.2)	0.55 (14.0)	0.049	3500 (241)
3/4	3/4	316L-12-VCO-3A	1.20 (30.5)	0.80 (20.3)	0.04 (1.0)	0.65 (16.5)	0.80 (20.3)	0.049	2200 (151)
1	1	316L-16-VCO-3A	1.41 (35.8)	1.00 (25.4)	0.04 (1.0)	0.87 (22.1)	1.06 (26.9)	0.065	2200 (151)

Male NPT Connector



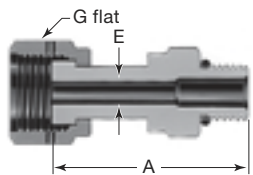
VCO Size in.	NPT Size in.	Ordering Number	Dimensions, in. (mm)			Pressure Rating psig (bar)
			A	E	G	
1/4	1/4	SS-4-WVCO-1-4	1.59 (40.4)	0.18 (4.6)	11/16	9800 (675)
1/2	3/8	SS-8-WVCO-1-6	1.67 (42.4)	0.40 (10.2)	1	5600 (385)
	1/2	SS-8-WVCO-1-8	1.87 (47.5)			
3/4	3/4	SS-12-WVCO-1-12	2.03 (51.6)	0.62 (15.7)	1 1/2	3900 (268)
1	1	SS-16-WVCO-1-16	2.36 (59.9)	0.87 (22.1)	1 3/4	2900 (199)

Female NPT Connector



VCO Size in.	NPT Size in.	Ordering Number	Dimensions, in. (mm)				Pressure Rating psig (bar)
			A	E	F	G	
1/4	1/4	SS-4-WVCO-7-4	1.57 (39.9)	0.18 (4.6)	3/4	11/16	6600 (454)
1/2	3/8	SS-8-WVCO-7-6	1.73 (43.9)	0.40 (10.2)	7/8	1	5300 (365)
	1/2	SS-8-WVCO-7-8	1.96 (49.8)		1 1/16		4900 (337)
3/4	3/4	SS-12-WVCO-7-12	2.12 (53.8)	0.62 (15.7)	1 5/16	1 1/2	4000 (275)
1	1	SS-16-WVCO-7-16	2.29 (58.2)	0.87 (22.1)	1 5/8	1 3/4	3000 (206)

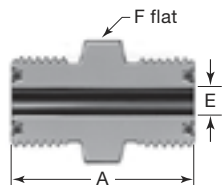
Male SAE/MS Connector



VCO Size in.	Straight Thread Size	Ordering Number	Dimensions, in. (mm)			Pressure Rating psig (bar)
			A	E	G	
1/4	7/16-20	SS-4-WVCO-1-4ST	1.54 (39.1)	0.18 (4.6)	11/16	4500 (310)
1/2	9/16-18	SS-8-WVCO-1-6ST	1.64 (41.7)	0.40 (10.2)	1	4500 (310)
	3/4-16	SS-8-WVCO-1-8ST	1.71 (43.4)			
3/4	1 1/16-12	SS-12-WVCO-1-12ST	2.07 (52.6)	0.62 (15.7)	1 1/2	3600 (248)
1	1 5/16-12	SS-16-WVCO-1-16ST	2.17 (55.1)	0.87 (22.1)	1 3/4	2900 (199)

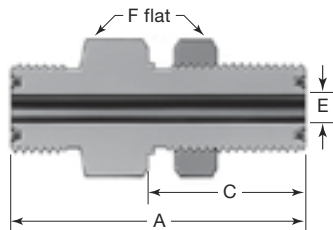
Bodies

Union



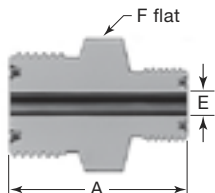
VCO Size in.	Ordering Number	Dimensions, in. (mm)			Pressure Rating psig (bar)
		A	E	F	
1/4	SS-4-VCO-6	1.25 (31.8)	0.18 (4.6)	5/8	14 300 (985)
1/2	SS-8-VCO-6	1.50 (38.1)	0.40 (10.2)	15/16	11 100 (764)

Bulkhead Union



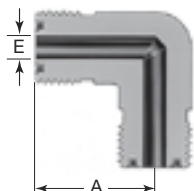
VCO Size in.	Ordering Number	Dimensions, in. (mm)						Pressure Rating psig (bar)
		A	C	E	F	Panel Hole Drill Size	Max Panel Thickness	
1/4	SS-4-VCO-61	1.88 (47.8)	1.06 (26.9)	0.18 (4.6)	3/4	37/64	0.36 (9.1)	14 300 (985)
1/2	SS-8-VCO-61	2.09 (53.1)	1.19 (30.2)	0.40 (10.2)	1 1/16	57/64	0.40 (10.2)	11 100 (764)

Reducing Union



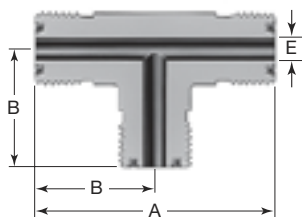
VCO Size in.	VCO Size in.	Ordering Number	Dimensions, in. (mm)			Pressure Rating psig (bar)
			A	E	F	
1/2	1/4	SS-8-VCO-6-4	1.43 (36.3)	0.18 (4.6)	15/16	11 100 (764)

Elbow



VCO Size in.	Ordering Number	Dimensions, in. (mm)		Pressure Rating psig (bar)
		A	E	
1/4	SS-4-VCO-9	0.96 (24.4)	0.18 (4.6)	14 300 (985)
1/2	SS-8-VCO-9	1.26 (32.0)	0.40 (10.2)	11 100 (764)
3/4	SS-12-VCO-9	1.48 (37.6)	0.62 (15.7)	10 900 (751)
1	SS-16-VCO-9	1.56 (39.6)	0.87 (22.1)	8 800 (606)

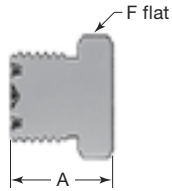
Tee



VCO Size in.	Ordering Number	Dimensions, in. (mm)			Pressure Rating psig (bar)
		A	B	E	
1/4	SS-4-VCO-T	1.92 (48.8)	0.96 (24.4)	0.18 (4.6)	14 300 (985)
1/2	SS-8-VCO-T	2.52 (64.0)	1.26 (32.0)	0.40 (10.2)	11 100 (764)
3/4	SS-12-VCO-T	2.96 (75.2)	1.48 (37.6)	0.62 (15.7)	10 900 (751)
1	SS-16-VCO-T	3.12 (79.2)	1.56 (39.6)	0.87 (22.1)	8 800 (606)

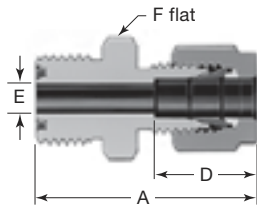
Bodies

Blind



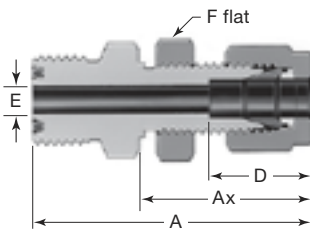
VCO Size in.	Ordering Number	Dimensions, in. (mm)	
		A	F
1/4	SS-4-VCO-1-BL	0.77 (19.6)	5/8
1/2	SS-8-VCO-1-BL	0.89 (22.6)	15/16
3/4	SS-12-VCO-1-BL	0.99 (25.1)	1 5/16
1	SS-16-VCO-1-BL	1.02 (25.9)	1 5/8

Swagelok Tube Fitting Connector



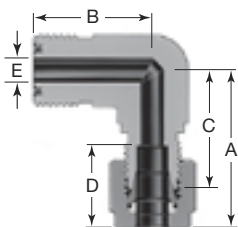
VCO Size in.	Tube OD in.	Ordering Number	Dimensions, in. (mm)				Pressure Rating psig (bar)
			A	D	E	F	
1/4	1/8	SS-4-VCO-6-200	1.38 (35.1)	0.51 (13.0)	0.09 (2.3)	5/8	10 900 (751)
	1/4	SS-4-VCO-6-400	1.47 (37.3)	0.60 (15.2)	0.18 (4.6)		10 200 (702)
1/2	3/8	SS-8-VCO-6-600	1.65 (41.9)	0.66 (16.8)	0.28 (7.1)	15/16	6 500 (447)
	1/2	SS-8-VCO-6-810	1.78 (45.2)	0.90 (22.9)	0.40 (10.2)		6 700 (461)
3/4	3/4	SS-12-VCO-6-1210	1.86 (47.2)	0.96 (24.4)	0.62 (15.7)	1 5/16	5 800 (399)
1	1	SS-16-VCO-6-1610	2.06 (52.3)	1.23 (31.2)	0.87 (22.1)	1 5/8	4 700 (323)

Swagelok Tube Fitting Bulkhead Connector



VCO Size in.	Tube OD in.	Ordering Number	Dimensions, in. (mm)							Pressure Rating psig (bar)
			A	Ax	D	E	F	Panel Hole Drill Size	Max Panel Thickness	
1/4	1/4	SS-4-VCO-A1-400	2.10 (53.3)	1.32 (33.5)	0.60 (15.2)	0.18 (4.6)	5/8	29/64	0.40 (10.2)	10 200 (702)
1/2	3/8	SS-8-VCO-A1-600	2.34 (59.4)	1.45 (36.8)	0.66 (16.8)	0.28 (7.1)	15/16	37/64	0.44 (11.2)	6 500 (447)
	1/2	SS-8-VCO-A1-810	2.55 (64.8)	1.65 (41.9)	0.90 (22.9)	0.40 (10.2)		49/64	0.50 (12.7)	6 700 (461)
3/4	3/4	SS-12-VCO-A1-1210	2.86 (72.6)	1.87 (47.5)	0.96 (24.4)	0.62 (15.7)	1 5/16	1 1/64	0.66 (16.8)	5 800 (399)
1	1	SS-16-VCO-A1-1610	3.29 (83.6)	2.26 (57.4)	1.23 (31.2)	0.87 (22.1)	1 5/8	1 21/64	0.75 (19.1)	4 700 (323)

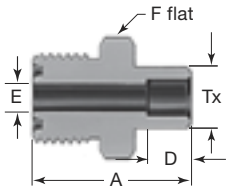
Swagelok Tube Fitting Elbow



VCO Size in.	Tube OD in.	Ordering Number	Dimensions, in. (mm)					Pressure Rating psig (bar)
			A	B	C	D	E	
1/4	1/4	SS-4-VCO-9-400	1.19 (30.2)	0.96 (24.4)	0.90 (22.9)	0.60 (15.2)	0.18 (4.6)	10 200 (702)
1/2	3/8	SS-8-VCO-9-600	1.39 (35.3)	1.26 (32.0)	1.10 (27.9)	0.66 (16.8)	0.28 (7.1)	6 500 (447)
	1/2	SS-8-VCO-9-810	1.50 (38.1)			0.90 (22.9)	0.40 (10.2)	6 700 (461)
3/4	3/4	SS-12-VCO-9-1210	1.80 (45.7)	1.48 (37.6)	1.40 (35.6)	0.96 (24.4)	0.62 (15.7)	5 800 (399)
1	1	SS-16-VCO-9-1610	2.04 (51.8)	1.56 (39.6)	1.56 (39.6)	1.23 (31.2)	0.87 (22.1)	4 700 (323)

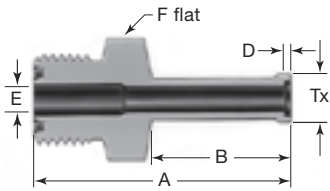
Bodies

Tube Socket Weld Connector



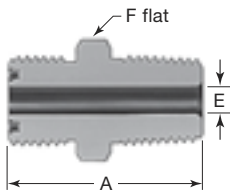
VCO Size in.	Tube OD in.	Ordering Number	Dimensions, in. (mm)					Pressure Rating psig (bar)
			A	D	E	F	Tx	
1/8	1/8	SS-2-VCO-1	0.88 (22.4)	0.10 (2.5)	0.09 (2.3)	5/8	0.29 (7.4)	12 600 (868)
1/4	1/4	SS-4-VCO-1	1.09 (27.7)	0.28 (7.1)	0.18 (4.6)	5/8	0.38 (9.7)	6 800 (468)
3/8	3/8	SS-6-VCO-1	1.28 (32.5)	0.31 (7.9)	0.28 (7.1)	15/16	0.60 (15.2)	8 100 (558)
1/2	1/2	SS-8-VCO-1	1.34 (34.0)	0.38 (9.7)	0.40 (10.2)	15/16	0.73 (18.5)	3 000 (206)
3/4	3/4	SS-12-VCO-1	1.50 (38.1)	0.44 (11.2)	0.62 (15.7)	1 5/16	0.92 (23.4)	3 700 (254)
1	1	SS-16-VCO-1	1.72 (43.7)	0.62 (15.7)	0.87 (22.1)	1 5/8	1.19 (30.2)	3 000 (206)

Automatic Tube Weld Connector



VCO Size in.	Tube OD in.	Ordering Number	Dimensions, in. (mm)							Pressure Rating psig (bar)
			A	B	D	E	F	Tx	Wall	
1/4	1/4	316L-4-VCO-1A	1.59 (40.4)	0.78 (19.8)	0.02 (0.5)	0.18 (4.6)	5/8	0.29 (7.4)	0.035	5100 (351)
1/2	3/8	316L-8-VCO-1A6	1.74 (44.2)	0.79 (20.0)	0.03 (0.8)	0.31 (7.9)	15/16	0.41 (10.4)	0.035	3300 (227)
1/2	1/2	316L-8-VCO-1A	1.75 (44.4)	0.80 (20.3)	0.04 (1.0)	0.40 (10.2)	15/16	0.55 (14.0)	0.049	3500 (241)
3/4	3/4	316L-12-VCO-1A	1.78 (45.2)	0.80 (20.3)	0.04 (1.0)	0.65 (16.5)	1 5/16	0.80 (20.3)	0.049	2200 (151)
1	1	316L-16-VCO-1A	2.03 (51.6)	1.00 (24.5)	0.04 (1.0)	0.87 (22.1)	1 5/8	1.06 (26.9)	0.065	2200 (151)

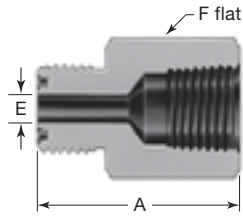
Male NPT Connector



VCO Size in.	NPT Size in.	Ordering Number	Dimensions, in. (mm)			Pressure Rating psig (bar)
			A	E	F	
1/4	1/8	SS-4-VCO-1-2	1.16 (29.5)	0.18 (4.6)	5/8	10 000 (689)
	1/4	SS-4-VCO-1-4	1.34 (34.0)			13 400 (923)
1/2	3/8	SS-8-VCO-1-6	1.46 (37.1)	0.38 (9.7)	15/16	7 800 (537)
	1/2	SS-8-VCO-1-8	1.65 (41.9)	0.40 (10.2)		10 000 (689)
3/4	3/4	SS-12-VCO-1-12	1.75 (44.4)	0.62 (15.7)	1 5/16	7 300 (502)
1	1	SS-16-VCO-1-16	1.97 (50.0)	0.87 (22.1)	1 5/8	5 300 (365)

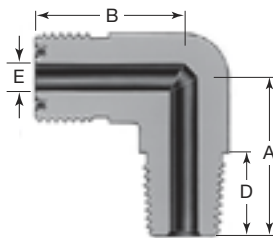
Bodies

Female NPT Connector



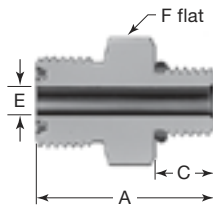
VCO Size in.	NPT Size in.	Ordering Number	Dimensions, in. (mm)			Pressure Rating psig (bar)
			A	E	F	
1/4	1/8	SS-4-VCO-7-2	1.25 (31.8)	0.18 (4.6)	5/8	8400 (578)
	1/4	SS-4-VCO-7-4	1.39 (35.3)		3/4	6600 (454)
1/2	3/8	SS-8-VCO-7-6	1.57 (39.9)	0.40 (10.2)	15/16	6600 (454)
	1/2	SS-8-VCO-7-8	1.77 (45.0)		1 1/16	4900 (337)
3/4	3/4	SS-12-VCO-7-12	1.93 (49.0)	0.62 (15.7)	1 5/16	4600 (316)
1	1	SS-16-VCO-7-16	2.02 (51.3)	0.87 (22.1)	1 5/8	4400 (303)

Male NPT Elbow



VCO Size in.	NPT Size in.	Ordering Number	Dimensions, in. (mm)				Pressure Rating psig (bar)
			A	B	D	E	
1/4	1/8	SS-4-VCO-2-2	0.87 (22.1)	0.96 (24.4)	0.38 (9.7)	0.18 (4.6)	10 000 (689)
	1/4	SS-4-VCO-2-4	1.05 (26.7)		0.56 (14.2)		8 000 (551)
1/2	3/8	SS-8-VCO-2-6	1.26 (32.0)	1.26 (32.0)	0.56 (14.2)	0.38 (9.7)	7 800 (537)
	1/2	SS-8-VCO-2-8	1.45 (36.8)		0.75 (19.1)	0.40 (10.2)	7 700 (530)
3/4	3/4	SS-12-VCO-2-12	1.67 (42.4)	1.48 (37.6)	0.75 (19.1)	0.62 (15.7)	7 300 (502)
1	1	SS-16-VCO-2-16	1.94 (49.3)	1.56 (39.6)	0.94 (23.9)	0.87 (22.0)	5 300 (365)

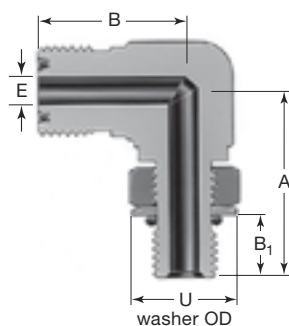
Male SAE/MS Connector



VCO Size in.	Straight Thread Size	Ordering Number	Dimensions, in. (mm)				Pressure Ratings psig (bar)
			A	C	E	F	
1/4	7/16-20	SS-4-VCO-1-4ST	1.24 (31.5)	0.36 (9.1)	0.18 (4.6)	11/16	4500 (310)
	9/16-18	SS-4-VCO-1-6ST	1.17 (29.7)	0.39 (9.9)			
1/2	7/16-20	SS-8-VCO-1-4ST	1.36 (34.5)	0.36 (9.1)	0.18 (4.6)	15/16	4500 (310)
	9/16-18	SS-8-VCO-1-6ST	1.39 (35.3)	0.39 (9.9)	0.30 (7.6)		
	3/4-16	SS-8-VCO-1-8ST	1.47 (37.3)	0.44 (11.2)	0.40 (10.2)	1	
3/4	1 1/16-12	SS-12-VCO-1-12ST	1.73 (43.9)	0.59 (15.0)	0.62 (15.7)	1 3/8	3600 (248)
1	1 5/16-12	SS-16-VCO-1-16ST	1.79 (45.5)	0.59 (15.0)	0.85 (21.6)	1 5/8	2900 (199)

Bodies

Male SAE/MS Positionable Elbow



VCO Size in.	Straight Thread Size	Ordering Number	Dimensions, in. (mm)					Pressure Rating psig (bar)
			A	B	B ₁	E	U	
1/4	7/16-20	SS-4-VCO-9P-4ST	1.19 (30.2)	0.96 (24.4)	0.39 (9.9)	0.19 (4.6)	0.65 (16.5)	4500 (310)
1/2	9/16-18	SS-8-VCO-9P-6ST	1.54 (39.1)	1.33 (33.8)	0.44 (11.2)	0.30 (7.6)	0.79 (20.1)	3600 (248)
	3/4-16	SS-8-VCO-9P-8ST	1.65 (41.9)		0.50 (12.7)	0.40 (10.2)	1.01 (25.7)	
3/4	1 1/16-12	SS-12-VCO-9P-12ST	2.13 (54.1)	1.53 (38.9)	0.66 (16.8)	0.62 (15.7)	1.44 (36.6)	2900 (199)
1	1 5/16-12	SS-16-VCO-9P-16ST	2.31 (58.7)	1.72 (43.7)	0.66 (16.8)	0.87 (22.1)	1.73 (43.9)	2300 (158)

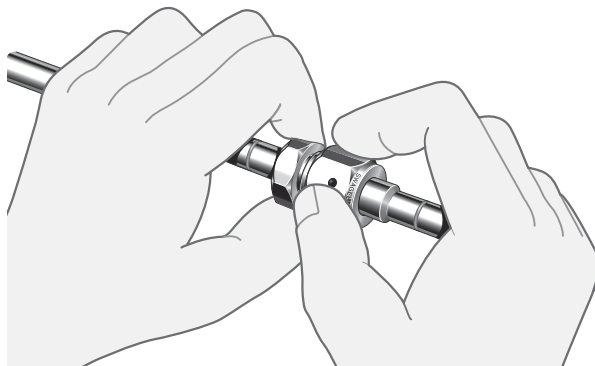
Options and Accessories

O-rings

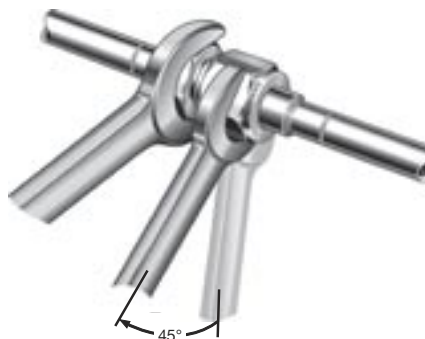
Perfluoroelastomer, Buna N, PTFE, and ethylene propylene O-rings are available for special applications. Contact your authorized Swagelok sales and service representative for information.

VCO Fitting Installation Instructions

1 Finger-tight



2



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.