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HIGH PURITY GAS SYSTEM



Vigour

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Hollow Hex Plug | P78

Permissible working pressure of stainless steel tube fitting

Table 1: Stainless steel inch Tubing

Tube fitting O.D.	Tube fitting thickness (inch) working pressure psi															
inch	0.010	0.012	0.014	0.016	0.020	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120	0.134	0.156	0.188
1/16	5600	6860	8150	9480	11890											
1/8						8550	10730									
3/16						5500	7100	10150								
1/4						4100	5200	7600	10150							
5/16							4100	5900	7975							
3/8							3350	4850	6525							
1/2							2650	3750	5150	6525						
5/8								2950	4050	5250	5945					
3/4								2450	3350	4250	4950	5655				
7/8								2050	2850	3650	4250	4843				
1									2100	2700	3200	3700	3987			
1-1/4										2400	2800	3300	3600	4100	4785	
1-1/2											2300	2700	3000	3400	4000	4785
2												2000	2000	2500	2900	3600

Advice on ordering information

High quality Annealed (304/304L, model 316/316L) (seamless or welded) stainless steel pipe joint bushing in accordance with ASTM A269 and A213 or equivalent. Hardness does not exceed 90HRB or 200HV. Tube fitting sleeve should be free of scratches and suitable for bending and expansion. For tube fitting sleeves with 1/16 in. , Od tolerance shall not exceed ± 0.003 in.

Table 2: Stainless steel metric Tubing

Tube fitting O.D.	Tube fitting thickness (inch) working pressure psi													
mm	0.8	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0	3.5	4.0	4.5	5.0
3	670													
6	310	420	540	710										
8		310	390	520										
10		240	300	400	510									
12		200	250	330	410	470								
14		160	200	270	340	380	430							
15		150	190	250	310	360	400							
16			170	230	290	330	370	400						
18			150	200	260	290	320	370						
20			140	180	230	260	290	330	380					
22			120	160	200	230	260	300	340					
25					180	200	230	260	290	320				
38							140	160	190	200	240	270	310	
50										150	180	210	240	270

Advice on ordering information

High quality Annealed (304/304L, model 316/316L) stainless steel pipe joint bushing in accordance with ASTM A269 and A213 or equivalent. Hardness does not exceed 90HRB or 200HV. Tube fitting sleeve should be free of scratches and suitable for bending and expansion. For tube fitting sleeves with 3mm , Od tolerance shall not exceed ± 0.076 in.

Annealed 304 or stainless steel tube fitting sleeve, Must conform to ASTM A213, A269 or equivalent.
Temperature range: -20°F ~ 100°F (-29°C ~ 37°C)

Table 3: Copper tubing wall thickness of tube in inch

Tube fitting O.D.		0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120
mm	inch								
2	1/8	2700	3600						
3	3/16	1800	2300	3400					
6	1/4	1300	1600	2500	3500				
8	5/16		1300	1900	2700				
10	3/8		1000	1600	2200				
12	1/2		800	1100	1600	2100			
16	5/8			900	1200	1600	1900		
20	3/4			700	1000	1300	1500	1800	
22	7/8			600	800	1100	1300	1500	
25	1			500	700	900	1100	1300	1500

Table 4: Factors used to determine allowable pressure at higher temperatures

°F	°C	A. I. S. I. 316	Copper
200	93	1	0.80
400	204	0.96	0.50
600	316	0.85	—
800	427	0.79	—
1000	538	0.76	—

To determine the allowable pressure at high temperatures, The allowable operating pressures in Tables 1 and 2 can be multiplied by the coefficients given in Table 4.
Example: Below 400°F (204°C) , Size 1/2 "od, x0.049 thickness, model 316 stainless steel allowable pressure =3750 psi x0.96=3600 psi

Table 5: Gas application tube fitting

INCH		METRIC	
Tube fitting O.D.	Minimum nominal thickness	Tube fitting O.D.	Minimum nominal thickness
1/8"	0.028	3mm	0.8mm
3/16"	0.028	6mm	0.8mm
1/4"	0.028	8mm	1.0mm
5/16"	0.035	10mm	1.0mm
3/8"	0.035	12mm	1.0mm
1/2"	0.049	14mm	1.2mm
5/8"	0.065	16mm	1.5mm
3/4"	0.065	18mm	1.5mm
7/8"	0.083	20mm	1.8mm
1"	0.083	22mm	2.0mm
1-1/4"	0.109	25mm	2.2mm
1-1/2"	0.134	38mm	3.5mm
2"	0.188	50mm	5.0mm

Tubing Data

Table 6: Pressure ratings

NPT / ISO Pipe size	316 SS		Brass	
	male	female	male	female
in.	psig (bar)			
1/16	11000 (757)	6700 (461)	5500 (378)	3300 (227)
1/8	10000 (689)	6500 (447)	5000 (344)	3200 (220)
1/4	8000 (551)	6600 (454)	4000 (275)	3300 (227)
3/8	7800 (537)	5300 (365)	3900 (268)	2600 (179)
1/2	7700 (530)	4900 (337)	3800 (261)	2400 (165)
3/4	7300 (502)	4600 (316)	3600 (248)	2300 (158)
1	5300 (365)	4400 (303)	2600 (179)	2200 (151)
1-1/4	6000 (413)	5000 (344)	3000 (206)	2500 (172)
1-1/2	5000 (344)	4600 (316)	2500 (172)	2300 (158)
2	3900 (268)	3900 (268)	1900 (130)	1900 (130)

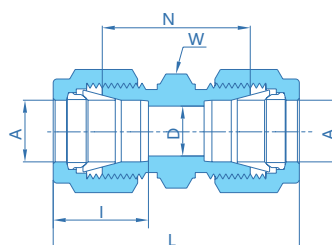
Table 7: Pressure ratings

SAE thread size	316 SS Psig (bar)		Brass Psig (bar)	
	nonlocalizable	Positionable	nonlocalizable	Positionable
5/16-24	5076 (350)	5076 (350)	2538 (175)	2538 (175)
3/8-24	5076 (350)	5076 (350)	2538 (175)	2538 (175)
7/16-20	5076 (350)	4568 (315)	2538 (175)	2277 (157)
1/2-20	5076 (350)	4568 (315)	2538 (175)	2277 (157)
9/16-18	5076 (350)	4061 (280)	2538 (175)	2030 (140)
3/4-16	4568 (315)	4061 (280)	2175 (150)	2030 (140)
7/8-14	3625 (250)	3045 (210)	1740 (120)	1522 (105)
1-1/16-12	3625 (250)	3045 (210)	1740 (120)	1522 (105)
1-3/16-12	3045 (210)	2538 (175)	1450 (100)	1261 (87)
1-5/16-12	3045 (210)	2538 (175)	1450 (100)	1261 (87)
1-5/8-12	2538 (175)	2030 (140)	1160 (80)	1015 (70)
1-7/8-12	2538 (175)	2030 (140)	1160 (80)	1015 (70)
2-1/2-12	2030 (140)	1522 (105)	1015 (70)	754 (52)

Table 8: Pressure ratings

ISO/BSP Male pipe size	316 SS	Brass
	Psig (bar)	
in.		
1/8	4568 (315)	2277 (157)
3/16	4568 (315)	2277 (157)
1/4	4568 (315)	2277 (157)
3/8	4568 (315)	2277 (157)
1/2	2320 (160)	1160 (80)
3/4	2320 (160)	1160 (80)
1	2320 (160)	1160 (80)

Union

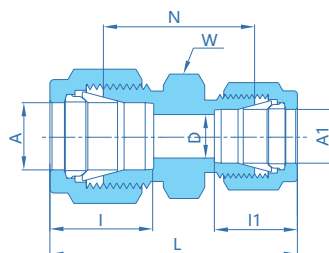


TUBE (METRIC) TO TUBE (METRIC)						
Ordering Information	A Tube O.D.	D	W Hex. Flat	N	L	I
	mm	mm	mm	mm	mm	mm
SS-VU-2M	2	1.7	12	22.4	35.6	12.9
SS-VU-3M	3	2.4	12	22.1	35.3	12.9
SS-VU-4M	4	2.4	12	24.1	37.3	13.7
SS-VU-6M	6	4.8	14	26.2	41.0	15.3
SS-VU-8M	8	6.4	15	28.2	43.2	16.2
SS-VU-10M	10	7.9	18	31.0	46.2	17.2
SS-VU-12M	12	9.5	22	31.0	51.2	22.8
SS-VU-14M	14	11.1	24	31.8	52.0	24.4
SS-VU-15M	15	11.9	24	31.8	52.0	24.4
SS-VU-16M	16	12.7	24	31.8	52.0	24.4
SS-VU-18M	18	15.1	27	33.3	53.5	24.4
SS-VU-20M	20	15.9	30	34.8	55.0	26.0
SS-VU-22M	22	18.3	30	34.8	55.0	26.0
SS-VU-25M	25	21.8	35	40.4	65.0	31.3
SS-VU-30M	30	26.2	46	49.5	92.7	39.6
SS-VU-32M	32	28.6	46	51.3	97.3	42
SS-VU-38M	38	33.7	55	58.4	114.0	49.4
SS-VU-50M	50	45.2	3 inch	71.7	146.0	65.0

TUBE (INCH) TO TUBE (INCH)											
Ordering Information	A Tube O.D.		D		W Hex. Flat	N		L		I	
	inch	mm	inch	mm	inch	inch	mm	inch	mm	inch	mm
SS-VU-01	1/16	1.58	.05	1.27	5/16	.69	17.52	.99	25.14	.34	8.6
SS-VU-02	1/8	3.17	.09	2.28	7/16	.88	22.35	1.40	35.56	.50	12.7
SS-VU-03	3/16	4.76	.12	3.04	7/16	.95	24.13	1.47	37.33	.54	13.7
SS-VU-04	1/4	6.35	.19	4.82	1/2	1.03	26.16	1.61	40.89	.60	15.2
SS-VU-05	5/16	7.93	.25	6.35	9/16	1.11	28.19	1.69	42.92	.64	16.2
SS-VU-06	3/8	9.52	.28	7.11	5/8	1.19	30.22	1.77	44.95	.66	16.8
SS-VU-08	1/2	12.70	.41	10.41	13/16	1.22	30.98	2.02	51.30	.90	22.9
SS-VU-10	5/8	15.87	.50	12.70	15/16	1.25	31.75	2.05	52.07	.96	24.4
SS-VU-12	3/4	19.05	.62	15.75	1-1/6	1.31	33.27	2.11	53.59	.96	24.4
SS-VU-14	7/8	22.22	.72	18.28	1-3/6	1.37	34.80	2.17	55.11	1.02	25.9
SS-VU-16	1	25.40	.88	22.35	1-3/8	1.59	40.38	2.55	64.77	1.23	31.2
SS-VU-18	1-1/4	31.75	1.09	27.70	1-3/4	1.89	48.00	3.63	92.20	1.62	41.2
SS-VU-24	1-1/2	38.10	1.34	34.00	2-1/8	2.11	53.60	4.25	107.95	1.97	50.0
SS-VU-32	2	50.80	1.81	45.97	2-3/4	2.94	74.67	5.88	149.35	2.66	67.6

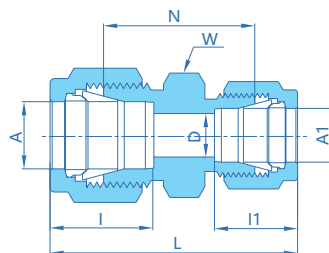
Tube Fitting VRU Series

Reducing Union



TUBE (METRIC) TO TUBE (METRIC)								
Ordering Information	A	A1	D	W	N	L	I	I1
	Tube O.D.	Tube O.D.		Hex. Flat				
	mm	mm	mm	mm	mm	mm	mm	mm
SS-VRU-3M-2M	3	2	1.7	12	22.1	35.3	12.9	12.9
SS-VRU-6M-2M	6	2	1.7	14	24.6	38.6	15.3	12.9
SS-VRU-6M-3M	6	3	2.4	14	24.6	38.6	15.3	12.9
SS-VRU-6M-4M	6	4	2.4	14	25.4	39.4	15.3	13.7
SS-VRU-8M-6M	8	6	4.8	15	27.4	42.3	16.2	15.3
SS-VRU-10M-6M	10	6	4.8	18	29.5	44.5	17.2	15.3
SS-VRU-10M-8M	10	8	6.4	18	30.0	45.1	17.2	16.2
SS-VRU-12M-6M	12	6	4.8	22	29.5	47.0	22.8	15.3
SS-VRU-12M-8M	12	8	6.4	22	30.2	47.8	22.8	16.2
SS-VRU-12M-10M	12	10	7.9	22	31.0	48.7	22.8	17.2
SS-VRU-16M-10M	16	10	7.9	24	31.8	49.5	24.4	17.2
SS-VRU-16M-12M	16	12	9.5	24	31.8	52.0	24.4	22.8
SS-VRU-18M-12M	18	12	9.5	27	33.3	53.5	24.4	22.8
SS-VRU-25M-18M	25	18	15.1	35	38.6	61.0	31.3	24.4
SS-VRU-25M-20M	25	20	15.9	35	39.9	62.3	31.3	26.0
SS-VRU-30M-18M	30	18	15.1	46	43.7	75.4	39.6	24.4
SS-VRU-30M-20M	30	20	15.9	46	43.7	75.4	39.6	26
SS-VRU-30M-25M	30	25	21.8	46	46.2	80.1	39.6	31.3
SS-VRU-32M-18M	32	18	15.1	46	44.7	77.8	42	24.4
SS-VRU-32M-20M	32	20	15.9	46	44.7	77.8	42	26
SS-VRU-32M-25M	32	25	21.8	46	47	82.3	42	31.3
SS-VRU-38M-30M	38	30	26.2	55	55.8	105	49.4	39.6
SS-VRU-38M-20M	38	20	15.9	55	49.8	87.5	49.4	26.0
SS-VRU-38M-25M	38	25	21.8	55	55.5	95.4	49.4	31.3

Reducing Union

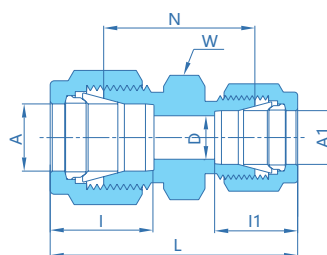


TUBE (METRIC) TO TUBE (INCH)

Ordering Information	A Tube O.D.	A1 Tube O.D.	D	W hex. Flat	N	L	I	I1
	mm	mm	mm	mm	mm	mm	mm	mm
SS-VRU-2M-04	2	1/4	1.7	14	24.6	38.6	12.9	15.2
SS-VRU-3M-02	3	1/8	2.4	12	22.1	35.2	12.9	12.7
SS-VRU-4M-02	4	1/8	2.4	12	23.4	36.5	13.7	12.7
SS-VRU-4M-04	4	1/4	2.4	14	25.4	39.4	13.7	15.2
SS-VRU-6M-02	6	1/8	2.4	14	24.6	38.5	15.3	12.7
SS-VRU-6M-04	6	1/4	4.8	14	26.2	41.0	15.3	15.2
SS-VRU-6M-05	6	5/16	4.8	14	27.4	42.3	15.3	16.2
SS-VRU-8M-02	8	1/8	2.4	15	25.7	39.8	16.2	12.7
SS-VRU-8M-04	8	1/4	4.8	15	27.4	42.3	16.2	15.2
SS-VRU-8M-06	8	3/8	6.4	16	29.5	44.3	16.2	16.8
SS-VRU-10M-02	10	1/8	2.4	18	27.7	41.8	17.2	12.7
SS-VRU-10M-04	10	1/4	4.8	18	29.5	44.5	17.2	15.2
SS-VRU-10M-05	10	5/16	6.4	18	30.0	45.1	17.2	16.2
SS-VRU-10M-06	10	3/8	7.1	18	31.0	45.9	17.2	16.8
SS-VRU-12M-05	12	5/16	6.4	22	30.2	47.8	22.8	16.2
SS-VRU-12M-06	12	3/8	7.1	22	31.0	48.4	22.8	16.8
SS-VRU-12M-08	12	1/2	9.5	22	31.0	51.2	22.8	22.9
SS-VRU-15M-08	15	1/2	10.3	24	31.8	52.0	24.4	22.9
SS-VRU-15M-10	15	5/8	12.7	24	31.8	52.0	24.4	24.4
SS-VRU-18M-12	18	3/4	15.1	27	33.3	53.5	24.4	24.4

Tube Fitting VRU Series

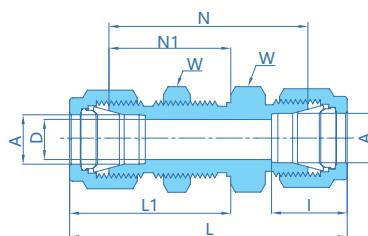
Reducing Union



TUBE (INCH) TO TUBE (INCH)

Ordering Information	A Tube O.D.		A1 Tube O.D.		D		W Hex. Flat	N		L		I		I1	
	inch	mm	inch	mm	inch	mm	inch	inch	mm	inch	mm	inch	mm	inch	mm
SS-VRU-02-01	1/8	3.17	1/16	1.58	.05	1.27	7/16	.81	20.57	1.22	30.98	.50	12.7	.34	8.6
SS-VRU-03-01	3/16	4.76	1/16	1.58	.05	1.27	7/16	.86	21.84	1.27	32.26	.54	13.7	.34	8.6
SS-VRU-03-02	3/16	4.76	1/8	3.17	.09	2.28	7/16	.92	23.36	1.44	36.57	.54	13.7	.50	12.7
SS-VRU-04-01	1/4	6.35	1/16	1.58	.05	1.27	1/2	.91	23.11	1.35	34.29	.60	15.2	.34	8.6
SS-VRU-04-02	1/4	6.35	1/8	3.17	.09	2.28	1/2	.97	24.63	1.52	38.60	.60	15.2	.50	12.7
SS-VRU-04-03	1/4	6.35	3/16	4.76	.12	3.04	1/2	1.00	25.40	1.55	37.37	.60	15.2	.54	13.7
SS-VRU-05-02	5/16	7.93	1/8	3.17	.09	2.28	9/16	1.01	25.65	1.56	39.62	.64	16.2	.50	12.7
SS-VRU-05-04	5/16	7.93	1/4	6.35	.19	4.82	9/16	1.08	27.43	1.66	42.16	.64	16.2	.60	15.2
SS-VRU-06-01	3/8	9.52	1/16	1.58	.05	1.27	5/8	1.00	25.40	1.44	36.58	.66	16.8	.34	8.6
SS-VRU-06-02	3/8	9.52	1/8	3.17	.09	2.28	5/8	1.06	26.92	1.61	40.89	.66	16.8	.50	12.7
SS-VRU-06-04	3/8	9.52	1/4	6.35	.19	4.82	5/8	1.12	28.44	1.70	43.18	.66	16.8	.60	15.2
SS-VRU-06-05	3/8	9.52	5/16	7.93	.25	6.35	5/8	1.16	29.46	1.74	44.19	.66	16.8	.64	16.2
SS-VRU-08-02	1/2	12.70	1/8	3.17	.09	2.28	13/16	1.12	28.44	1.78	45.21	.90	22.9	.50	12.7
SS-VRU-08-04	1/2	12.70	1/4	6.35	.19	4.82	13/16	1.16	29.46	1.85	46.99	.90	22.9	.60	15.2
SS-VRU-08-06	1/2	12.70	3/8	9.52	.28	7.11	13/16	1.22	30.98	1.91	48.51	.90	22.9	.66	16.8
SS-VRU-10-06	5/8	15.87	3/8	9.52	.28	7.11	15/16	1.25	31.75	1.94	49.27	.96	24.4	.66	16.8
SS-VRU-10-08	5/8	15.87	1/2	12.70	.41	10.41	15/16	1.25	31.75	2.05	52.07	.96	24.4	.90	22.9
SS-VRU-12-04	3/4	19.05	1/4	6.35	.19	4.82	1-1/6	1.25	31.75	1.94	49.28	.96	24.4	.60	15.2
SS-VRU-12-06	3/4	19.05	3/8	9.52	.28	7.11	1-1/6	1.31	33.27	2.00	50.80	.96	24.4	.66	16.8
SS-VRU-12-08	3/4	19.05	1/2	12.70	.41	10.41	1-1/6	1.31	33.27	2.11	53.59	.96	24.4	.90	22.9
SS-VRU-12-10	3/4	19.05	5/8	15.87	.50	12.70	1-1/6	1.31	33.27	2.11	53.59	.96	24.4	.96	24.4
SS-VRU-16-08	1	25.4	1/2	12.70	.41	10.41	1-3/8	1.50	38.10	2.38	60.45	1.23	31.2	.90	22.9
SS-VRU-16-12	1	25.4	3/4	19.05	.62	15.75	1-3/8	1.50	38.10	2.38	60.45	1.23	31.2	.96	24.4

Bulkhead Union



TUBE (METRIC) TO TUBE (METRIC)

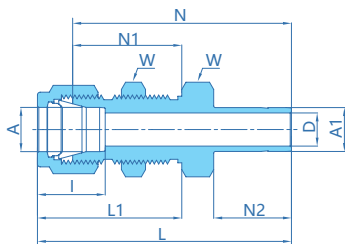
Ordering Information	A Tube O.D.		D		W Hex. Flat		N		N1		L		L1		I		Panel Hole Drill size		Max. panel thickness	
	mm		mm		mm		mm		mm		mm		mm		mm		mm		mm	
SS-VBU-3M	3		2.4		14		38.1		24.6		51.3		31.2		12.9		8.30		12.7	
SS-VBU-4M	4		2.4		14		40.4		25.4		53.6		32.0		13.7		9.90		12.7	
SS-VBU-6M	6		4.8		16		42.9		26.2		57.7		33.6		15.3		11.50		10.2	
SS-VBU-8M	8		6.4		18		46.0		28.6		61.0		36.1		16.2		13.10		11.2	
SS-VBU-10M	10		7.9		22		48.5		29.4		63.7		37.0		17.2		16.25		11.2	
SS-VBU-12M	12		9.5		24		50.8		31.8		71.0		41.9		22.8		19.50		12.7	
SS-VBU-14M	14		11.0		27		52.3		32.5		72.5		42.6		24.4		22.80		12.7	
SS-VBU-15M	15		11.9		27		52.3		32.5		72.5		42.6		24.4		22.80		12.7	
SS-VBU-16M	16		12.7		27		52.3		32.5		72.5		42.6		24.4		22.80		12.7	
SS-VBU-18M	18		15.1		30		58.7		37.3		78.9		47.4		24.4		26.00		16.8	
SS-VBU-20M	20		15.9		35		64.3		42.9		84.5		53.0		26.0		29.00		19.0	
SS-VBU-25M	25		21.8		41		71.4		45.2		96.0		57.5		31.3		33.70		19.0	
SS-VBU-30M	30		26.2		50		80.5		48.6		123.7		70.2		39.6		40.5		19	
SS-VBU-32M	32		28.6		50		82.3		49.5		128.3		72.5		42		42.5		19	
SS-VBU-38M	38		33.7		60		89.8		51.9		145.0		79.5		49.4		50.50		19.0	

TUBE (INCH) TO TUBE (INCH)

Ordering Information	A Tube O.D.		D		W Hex. Flat		N		N1		L		L1		I		Panel Hole Drill size		Max. panel thickness	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VBU-01	1/16	1.58	.05	1.27	5/16	.94	23.88	.53	13.46	1.24	31.5	.68	17.3	.34	8.6	13/64	5.16	.12	3.05	
SS-VBU-02	1/8	3.17	.09	2.28	1/2	1.50	38.10	.97	24.63	2.02	51.30	1.23	31.24	.50	12.7	21/64	8.33	.50	12.70	
SS-VBU-03	3/16	4.76	.12	3.04	9/16	1.59	40.38	1.00	25.40	2.11	53.59	1.26	32.00	.54	13.7	25/64	9.92	.50	12.70	
SS-VBU-04	1/4	6.35	.19	4.82	5/8	1.69	42.92	1.03	26.16	2.27	57.65	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16	
SS-VBU-05	5/16	7.93	.25	6.35	11/16	1.81	45.97	1.12	28.44	2.39	60.70	1.41	35.81	.64	16.2	33/64	13.09	.44	11.17	
SS-VBU-06	3/8	9.52	.28	7.11	3/4	1.87	47.5	1.16	29.46	2.45	62.2	1.45	36.83	.66	16.8	37/64	14.68	.44	11.17	
SS-VBU-08	1/2	12.70	.41	10.41	15/16	2.00	50.80	1.25	31.75	2.80	71.12	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70	
SS-VBU-10	5/8	15.87	.50	12.70	1-1/16	2.06	52.32	1.28	32.51	2.86	72.64	1.68	42.67	.96	24.4	57/64	22.62	.50	12.70	
SS-VBU-12	3/4	19.05	.62	15.75	1-3/16	2.31	58.67	1.47	37.33	3.11	78.99	1.87	47.49	.96	24.4	1-1/64	25.79	.66	16.76	
SS-VBU-16	1	25.40	.88	22.35	1-5/8	2.81	71.37	1.78	45.21	3.77	95.76	2.26	57.40	1.23	31.2	1-21/64	33.73	.75	19.05	
SS-VBU-18	1-1/4	31.75	1.09	27.70	1-7/8	3.11	79.00	1.88	47.75	4.85	123.19	2.75	69.85	1.62	41.2	1-41/64	41.67	.75	19.05	
SS-VBU-24	1-1/2	38.10	1.34	34.00	2-1/4	3.34	84.80	1.94	49.28	5.48	139.19	3.01	76.45	1.97	50.0	1-61/64	49.61	.75	19.05	
SS-VBU-32	2	50.80	1.81	45.97	2-3/4	4.16	105.66	2.22	56.39	7.10	180.34	3.69	93.73	2.66	67.6	2-41/64	67.07	.75	19.05	

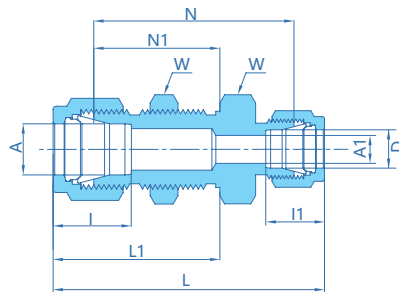
Tube Fitting VBR / VRBU Series

Bulkhead Reducer



TUBE (INCH) TO TUBE (INCH)																						
Ordering Information	A Tube O.D.		A1 Tube O.D.	D		W Hex. Flat	N		N1		N2		L		L1		I		Panel Hole Drill size		Max. panel thickness	
	inch	mm	inch	inch	mm	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VBR-02-TB02	1/8	3.17	1/8	.08	2.03	1/2	1.69	42.92	.97	24.63	.53	13.46	1.95	49.53	1.23	31.24	.50	12.7	21/64	8.33	.50	12.70
SS-VBR-04-TB04	1/4	6.35	1/4	.17	4.20	5/8	1.91	48.50	1.03	26.16	.62	15.74	2.20	55.88	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16
SS-VBR-06-TB06	3/8	9.52	3/8	.28	7.11	3/4	2.12	53.85	1.16	29.46	.69	17.52	2.41	61.21	1.45	36.83	.66	16.8	37/64	14.68	.44	11.17
SS-VBR-08-TB08	1/2	12.7	1/2	.39	9.90	15/16	2.47	62.73	1.25	31.75	.91	23.11	2.87	72.89	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70
SS-VBR-10-TB10	5/8	15.87	5/8	.50	12.70	1-1/16	2.56	65.02	1.28	32.51	.97	24.64	2.96	75.18	1.68	42.67	.96	24.4	57/64	22.62	.50	12.70
SS-VBR-12-TB12	3/4	19.05	3/4	.59	15.00	1-3/16	2.81	71.37	1.47	37.33	.97	24.64	3.21	81.53	1.87	47.49	.96	24.4	1-1/64	25.79	.66	16.76
SS-VBR-16-TB16	1	25.40	1	.80	20.30	1-5/8	3.47	88.14	1.78	45.21	1.30	33.02	3.95	100.33	2.26	57.40	1.23	31.2	1-21/64	33.73	.75	19.05

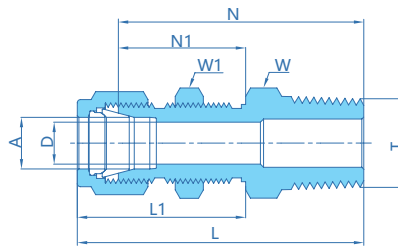
Bulkhead Reducing Union



TUBE (METRIC) TO TUBE (INCH)												
Ordering Information	A Tube O.D.	A1 Tube O.D.	D	W Hex. Flat	N	N1	L	L1	I	I1	Panel Hole Drill size	Max. panel thickness
	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SS-VRBU-6M-02	6	1/8	2.4	16	41.1	26.2	55.1	33.6	15.3	12.7	11.5	10.2
SS-VRBU-6M-04	6	1/4	4.8	16	42.9	26.2	57.7	33.6	15.3	15.2	11.5	10.2
SS-VRBU-12M-08	12	1/2	9.5	24	50.8	31.8	71.1	41.9	22.8	22.9	19.5	12.7
SS-VRBU-18M-12	18	3/4	15.1	30	58.7	37.3	79.0	47.4	24.4	24.4	26.0	16.8

TUBE (INCH) TO TUBE (INCH)																							
Ordering Information	A Tube O.D.		A1 Tube O.D.		D		W Hex. Flat	N		N1		L		L1		I		I1		Panel Hole Drill size		Max. panel thickness	
	inch	mm	inch	mm	inch	mm	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VRBU-02-01	1/8	3.17	1/16	1.58	.05	1.27	1/2	1.44	36.57	.97	24.64	1.85	46.99	1.23	31.24	.50	12.7	.34	8.6	21/64	8.33	.50	12.70
SS-VRBU-03-04	3/16	4.76	1/4	6.35	.12	3.04	9/16	1.62	41.15	1.00	25.40	2.17	55.12	1.26	32.00	.54	13.7	.60	15.2	25/64	9.92	.50	12.70
SS-VRBU-04-02	1/4	6.35	1/8	3.17	.09	2.28	5/8	1.62	41.15	1.03	26.16	2.17	55.12	1.32	33.53	.60	15.2	.50	12.7	29/64	11.50	.40	10.16
SS-VRBU-04-06	1/4	6.35	3/8	9.52	.19	4.82	5/8	1.74	44.20	1.03	26.16	2.61	66.29	1.32	33.53	.60	15.2	.66	16.8	29.64	11.50	.40	10.16
SS-VRBU-06-04	3/8	9.52	1/4	6.35	.19	4.82	3/4	1.81	45.97	1.16	29.46	2.39	60.71	1.45	36.83	.66	16.8	.60	15.2	37/64	14.68	.44	11.17
SS-VRBU-08-04	1/2	12.70	1/4	6.35	.19	4.82	15/16	1.94	49.28	1.25	31.75	2.63	66.80	1.65	41.91	.90	22.9	.60	15.2	49/64	19.44	.50	12.70
SS-VRBU-08-10	1/2	12.70	5/8	15.87	.41	10.41	15/16	2.03	51.56	1.25	31.75	2.83	71.88	1.65	41.91	.90	22.9	.96	24.4	49/64	19.44	.50	12.70
SS-VRBU-10-06	5/8	15.87	3/8	9.52	.28	7.11	1-1/16	2.06	52.32	1.28	32.51	2.75	69.85	1.68	42.67	.96	24.4	.66	16.8	57/64	22.62	.50	12.70

Bulkhead Male Connector



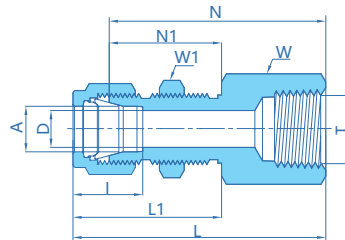
TUBE (METRIC) TO NPT(M)

Ordering Information	A Tube O.D.		T (NPT)	D		W Hex. Flat	W1 Hex. Flat	N		N1		L		L1		Panel Hole Drill size		Max. panel thickness	
	mm	inch		mm	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SS-VBMC-6M-M2	6		1/8	4.8		16	16	42.2		26.2		49.6		33.6		11.5		10.2	
SS-VBMC-6M-M4	6		1/4	4.8		16	16	46.2		26.2		53.6		33.6		11.5		10.2	
SS-VBMC-12M-M8	12		1/2	9.5		24	24	58.7		31.8		68.8		41.9		19.5		12.7	

TUBE (INCH) TO NPT(M)

Ordering Information	A Tube O.D.		T (NPT)	D		W Hex. Flat	W1 Hex. Flat	N		N1		L		L1		Panel Hole Drill size		Max. panel thickness	
	inch	mm		inch	mm	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VBMC-02-M2	1/8	3.17	1/8	.09	2.28	1/2	1/2	1.57	39.90	.97	24.60	1.83	46.48	1.23	31.24	21/64	8.33	.50	12.70
SS-VBMC-04-M2	1/4	6.35	1/8	.19	4.82	5/8	5/8	1.66	42.20	1.03	26.20	1.95	49.53	1.32	33.52	29/64	11.50	.40	10.16
SS-VBMC-04-M4	1/4	6.35	1/4	.19	4.82	5/8	5/8	1.84	46.70	1.03	26.16	2.13	54.10	1.32	33.52	29/64	11.50	.40	10.16
SS-VBMC-06-M4	3/8	9.52	1/4	.28	7.11	3/4	3/4	1.97	50.00	1.16	29.46	2.26	57.40	1.45	36.83	37/64	14.68	.44	11.17
SS-VBMC-06-M6	3/8	9.52	3/8	.28	7.11	3/4	3/4	1.97	50.04	1.16	29.46	2.26	57.40	1.45	36.83	37/64	14.68	.44	11.17
SS-VBMC-06-M8	3/8	9.52	1/2	.28	7.11	7/8	3/4	2.22	56.39	1.16	29.46	2.51	63.75	1.45	36.83	37/64	14.68	.44	11.17
SS-VBMC-08-M6	1/2	12.70	3/8	.40	10.40	15/16	15/16	2.09	53.10	1.25	31.75	2.49	63.25	1.65	41.91	49/64	19.44	.50	12.70
SS-VBMC-08-M8	1/2	12.70	1/2	.40	10.40	15/16	15/16	2.31	58.70	1.25	31.70	2.71	68.83	1.65	41.91	49/64	19.44	.50	12.70
SS-VBMC-12-M12	3/4	19.05	3/4	.62	15.74	1-3/16	1-3/16	2.60	66.04	1.47	37.33	3.00	76.20	1.87	47.49	1-1/64	25.79	.66	16.76
SS-VBMC-16-M16	1	25.4	1	.88	22.35	1-5/8	1-5/8	3.19	81.02	1.78	45.21	3.67	93.21	2.26	57.40	1-21/64	33.73	.75	19.05

Bulkhead Female Connector



TUBE (METRIC) TO NPT(F)

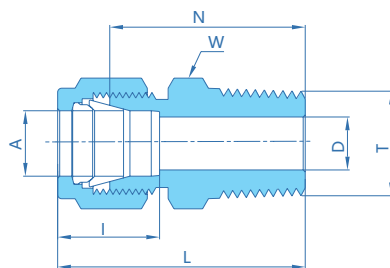
Ordering Information	A Tube O.D.		T (NPT)	D		W Hex. Flat	W1 Hex. Flat	N		N1		L		L1		I	Panel Hole Drill size		Max. panel thickness	
	mm	mm		mm	mm			mm	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	mm
SS-VBFC-6M-F4	6		1/4	4.8		19	16	44.4		26.2		51.8		33.6		15.3		11.5		10.2
SS-VBFC-12M-F8	12		1/2	9.5		27	24	56.4		31.8		66.5		41.9		22.8		19.5		12.7

TUBE (INCH) TO NPT(F)

Ordering Information	A Tube O.D.		T (NPT)	D		W Hex. Flat	W1 Hex. Flat	N		N1		L		L1		I		Panel Hole Drill size		Max. panel thickness	
	inch	mm	inch	inch	mm	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VBFC-02-F2	1/8	3.17	1/8	.09	2.28	9/16	1/2	1.50	38.10	.97	24.63	1.76	44.70	1.23	31.24	.50	12.7	21/64	8.33	.50	12.70
SS-VBFC-04-F2	1/4	6.35	1/8	.19	4.82	5/8	5/8	1.56	39.62	1.03	26.16	1.85	46.99	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16
SS-VBFC-04-F4	1/4	6.35	1/4	.19	4.82	3/4	5/8	1.75	44.45	1.03	26.16	2.04	51.81	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16
SS-VBFC-06-F4	3/8	9.52	1/4	.28	7.11	3/4	3/4	1.88	47.75	1.16	29.46	2.17	55.11	1.45	36.83	.66	16.8	37/64	14.68	.44	11.17
SS-VBFC-08-F6	1/2	12.70	3/8	.41	10.41	15/16	15/16	2.03	51.56	1.25	31.75	2.43	61.72	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70
SS-VBFC-08-F8	1/2	12.70	1/2	.41	10.41	1-1/16	15/16	2.22	56.38	1.25	31.75	2.62	66.54	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70

Tube Fitting

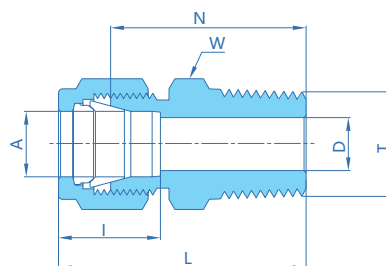
VMC Series



Male Connector

TUBE (METRIC) MALE NPT THREAD							
Ordering Information	A Tube O.D.	T (NPT)	D	W Hex. Flat	N	L	I
	mm	inch	mm	mm	mm	mm	mm
SS-VMC-2M-M2	2	1/8	1.7	12	23.9	30.5	12.9
SS-VMC-3M-M2	3	1/8	2.4	12	23.9	30.5	12.9
SS-VMC-3M-M4	3	1/4	2.4	14	29.0	35.6	12.9
SS-VMC-4M-M2	4	1/8	2.4	12	24.6	31.2	13.7
SS-VMC-4M-M4	4	1/4	2.4	14	29.7	36.3	13.7
SS-VMC-6M-M2	6	1/8	4.8	14	25.4	32.8	15.3
SS-VMC-6M-M4	6	1/4	4.8	14	30.5	37.9	15.3
SS-VMC-6M-M6	6	3/8	4.8	18	31.0	38.4	15.3
SS-VMC-6M-M8	6	1/2	4.8	22	37.3	44.7	15.3
SS-VMC-8M-M2	8	1/8	4.8	15	26.7	34.2	16.2
SS-VMC-8M-M4	8	1/4	6.4	15	31.2	38.7	16.2
SS-VMC-8M-M6	8	3/8	6.4	18	31.8	39.3	16.2
SS-VMC-8M-M8	8	1/2	6.4	22	38.1	45.6	16.2
SS-VMC-10M-M2	10	1/8	4.8	18	28.7	36.3	17.2
SS-VMC-10M-M4	10	1/4	7.9	18	33.3	40.9	17.2
SS-VMC-10M-M6	10	3/8	7.9	18	33.3	40.9	17.2
SS-VMC-10M-M8	10	1/2	7.9	22	38.9	46.5	17.2
SS-VMC-10M-M12	10	3/4	7.9	27	40.4	48.0	17.2
SS-VMC-12M-M2	12	1/8	4.8	22	28.7	38.8	22.8
SS-VMC-12M-M4	12	1/4	7.1	22	33.3	43.4	22.8
SS-VMC-12M-M6	12	3/8	9.5	22	33.3	43.4	22.8
SS-VMC-12M-M8	12	1/2	9.5	22	38.9	49.0	22.8
SS-VMC-12M-M12	12	3/4	9.5	27	40.4	50.5	22.8
SS-VMC-14M-M4	14	1/4	7.1	24	34.0	44.1	24.4
SS-VMC-14M-M6	14	3/8	9.5	24	34.0	44.1	24.4
SS-VMC-14M-M8	14	1/2	11.1	24	38.9	49.0	24.4
SS-VMC-15M-M8	15	1/2	11.9	24	38.9	49.0	24.4
SS-VMC-16M-M6	16	3/8	9.5	24	34.0	44.1	24.4
SS-VMC-16M-M8	16	1/2	11.9	24	38.9	49.0	24.4
SS-VMC-16M-M12	16	3/4	12.7	27	40.4	50.5	24.4
SS-VMC-18M-M8	18	1/2	11.9	27	40.4	50.5	24.4
SS-VMC-18M-M12	18	3/4	15.1	27	40.4	50.5	24.4
SS-VMC-20M-M8	20	1/2	11.9	30	42.2	52.3	26.0
SS-VMC-20M-M12	20	3/4	15.9	30	42.2	52.3	26.0
SS-VMC-22M-M12	22	3/4	15.9	30	42.2	52.3	26.0
SS-VMC-22M-M16	22	1	18.3	35	47.0	57.1	26.0
SS-VMC-25M-M8	25	1/2	11.9	35	45.2	57.5	31.3
SS-VMC-25M-M12	25	3/4	15.9	35	45.2	57.5	31.3
SS-VMC-25M-M16	25	1	21.8	35	50.0	62.3	31.3
SS-VMC-30M-M18	30	1-1/4	26.2	46	55.6	77.2	39.6
SS-VMC-32M-M18	32	1-1/4	28.6	46	56.6	79.6	42
SS-VMC-38M-M24	38	1-1/2	33.7	55	64.0	91.6	49.4
SS-VMC-50M-M32	50	2	45.2	3 inch	76.2	113.3	65.0

Male Connector

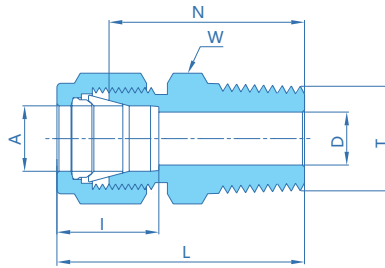


TUBE (INCH) MALE NPT THREAD

Ordering Information	A Tube O.D.		T (NPT)	D		W Hex. Flat	N		L		I	
	inch	mm		inch	mm		inch	mm	inch	mm	inch	mm
SS-VMC-01-M1	1/16	1.58	1/16	.05	1.27	5/16	.79	20.10	.94	23.88	.34	8.6
SS-VMC-01-M2	1/16	1.58	1/8	.05	1.27	7/16	.88	22.35	1.03	26.10	.34	8.6
SS-VMC-01-M4	1/16	1.58	1/4	.05	1.27	9/16	1.07	27.17	1.22	30.98	.34	8.6
SS-VMC-02-M1	1/8	3.17	1/16	.09	2.28	7/16	.91	23.11	1.17	29.71	.50	12.7
SS-VMC-02-M2	1/8	3.17	1/8	.09	2.28	7/16	.94	23.90	1.20	30.48	.50	12.7
SS-VMC-02-M4	1/8	3.17	1/4	.09	2.28	9/16	1.14	28.95	1.40	35.56	.50	12.7
SS-VMC-02-M6	1/8	3.17	3/8	.09	2.28	11/16	1.15	29.21	1.41	35.81	.50	12.7
SS-VMC-02-M8	1/8	3.17	1/2	.09	2.28	7/8	1.40	35.56	1.66	42.16	.50	12.7
SS-VMC-03-M2	3/16	4.76	1/8	.12	3.04	7/16	.97	24.63	1.23	31.24	.54	13.7
SS-VMC-03-M4	3/16	4.76	1/4	.12	3.04	9/16	1.17	29.72	1.43	36.32	.54	13.7
SS-VMC-04-M1	1/4	6.35	1/16	.12	3.04	1/2	1.00	25.40	1.29	32.76	.60	15.2
SS-VMC-04-M2	1/4	6.35	1/8	.19	4.82	1/2	1.00	25.40	1.29	32.76	.60	15.2
SS-VMC-04-M4	1/4	6.35	1/4	.19	4.82	9/16	1.20	30.50	1.49	37.85	.60	15.2
SS-VMC-04-M6	1/4	6.35	3/8	.19	4.82	11/6	1.22	30.98	1.51	38.35	.60	15.2
SS-VMC-04-M8	1/4	6.35	1/2	.19	4.82	7/8	1.47	37.34	1.76	44.70	.60	15.2
SS-VMC-04-M12	1/4	6.35	3/4	.19	4.82	1-1/16	1.53	38.86	1.82	46.22	.60	15.2
SS-VMC-05-M2	5/16	7.93	1/8	.19	4.82	9/16	1.05	26.67	1.34	34.03	.64	16.2
SS-VMC-05-M4	5/16	7.93	1/4	.25	6.35	9/16	1.23	31.24	1.52	38.60	.64	16.2
SS-VMC-05-M6	5/16	7.93	3/8	.25	6.35	11/16	1.25	31.75	1.54	39.11	.64	16.2
SS-VMC-06-M2	3/8	9.52	1/8	.19	4.82	5/8	1.10	27.90	1.39	35.30	.66	16.8
SS-VMC-06-M4	3/8	9.52	1/4	.28	7.11	5/8	1.28	32.51	1.57	39.87	.66	16.8
SS-VMC-06-M6	3/8	9.52	3/8	.28	7.11	11/16	1.28	32.51	1.57	39.87	.66	16.8
SS-VMC-06-M8	3/8	9.52	1/2	.28	7.11	7/8	1.53	38.90	1.82	46.23	.66	16.8
SS-VMC-06-M12	3/8	9.52	3/4	.28	7.11	1-1/16	1.59	40.38	1.88	47.75	.66	16.8
SS-VMC-06-M16	3/8	9.52	1	.28	7.11	1-3/8	1.85	46.99	2.14	54.35	.66	16.8
SS-VMC-08-M2	1/2	12.70	1/8	.19	4.82	13/16	1.13	28.70	1.53	38.86	.90	22.9
SS-VMC-08-M4	1/2	12.70	1/4	.28	7.11	13/16	1.31	33.27	1.71	43.43	.90	22.9
SS-VMC-08-M6	1/2	12.70	3/8	.38	9.65	13/16	1.31	33.27	1.71	43.43	.90	22.9
SS-VMC-08-M8	1/2	12.70	1/2	.41	10.41	7/8	1.53	38.90	1.93	49.02	.90	22.9
SS-VMC-08-M12	1/2	12.70	3/4	.41	10.41	1-1/16	1.59	40.38	1.99	50.54	.90	22.9
SS-VMC-08-M16	1/2	12.70	1	.41	10.41	1-3/8	1.85	47.00	2.25	57.15	.90	22.9

Tube Fitting VMC Series

Male Connector



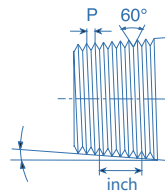
TUBE (INCH) MALE NPT THREAD

Ordering Information	A Tube O.D.		T (NPT)	D		W Wrench Flat	N		L		I	
	inch	mm	inch	inch	mm	inch	inch	mm	inch	mm	inch	mm
SS-VMC-10-M4	5/8	15.87	1/4	.28	7.11	15/16	1.34	34.03	1.74	44.19	.96	24.4
SS-VMC-10-M6	5/8	15.87	3/8	.38	9.65	15/16	1.34	34.03	1.74	44.19	.96	24.4
SS-VMC-10-M8	5/8	15.87	1/2	.47	11.90	15/16	1.53	38.86	1.93	49.02	.96	24.4
SS-VMC-10-M12	5/8	15.87	3/4	.50	12.70	1-1/16	1.59	40.38	1.99	50.54	.96	24.4
SS-VMC-12-M6	3/4	19.05	3/8	.38	9.50	1-1/16	1.38	35.05	1.78	45.21	.96	24.4
SS-VMC-12-M8	3/4	19.05	1/2	.47	11.90	1-1/16	1.59	40.38	1.99	50.54	.96	24.4
SS-VMC-12-M12	3/4	19.05	3/4	.62	15.75	1-1/16	1.59	40.38	1.99	50.54	.96	24.4
SS-VMC-12-M16	3/4	19.05	1	.62	15.75	1-3/8	1.85	47.00	2.25	57.15	.96	24.4
SS-VMC-14-M8	7/8	22.22	1/2	.47	11.90	1-3/16	1.59	40.38	1.99	50.54	1.02	25.9
SS-VMC-14-M12	7/8	22.22	3/4	.62	15.75	1-3/16	1.59	40.38	1.99	50.54	1.02	25.9
SS-VMC-14-M16	7/8	22.22	1	.72	18.28	1-3/8	1.85	46.99	2.25	57.15	1.02	25.9
SS-VMC-16-M8	1	25.40	1/2	.47	11.90	1-3/8	1.78	45.21	2.26	57.40	1.23	31.2
SS-VMC-16-M12	1	25.40	3/4	.62	15.75	1-3/8	1.78	45.21	2.26	57.40	1.23	31.2
SS-VMC-16-M16	1	25.40	1	.88	22.35	1-3/8	1.97	50.03	2.45	62.23	1.23	31.2
SS-VMC-18-M16	1-1/14	31.75	1	.86	21.80	1-3/4	2.17	55.12	3.04	77.22	1.62	41.2
SS-VMC-18-M18	1-1/14	31.75	1-1/4	1.09	27.70	1-3/4	2.17	55.12	3.04	77.22	1.62	41.2
SS-VMC-24-M24	1-1/12	38.10	1-1/2	1.34	34.00	2-1/8	2.43	61.72	3.50	88.90	1.97	50.0
SS-VMC-32-M32	2	50.80	2	1.81	45.97	2-3/4	3.00	76.20	4.47	113.54	2.66	67.6

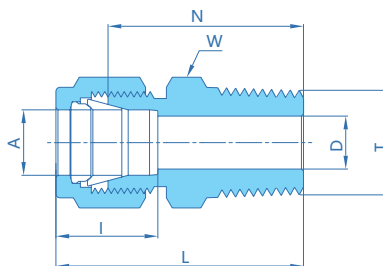
Reference Specifications:

- 60° Thread angle
- Pitch measured in inches
- Truncation of root and crest is flat
- Taper angle 1° 47'

- American Standard Pipe Thread (NPT).
- NPT (National Pipe Tapered) is made according to the specifications outlined in ANSI B1.20.1.



Male Connector

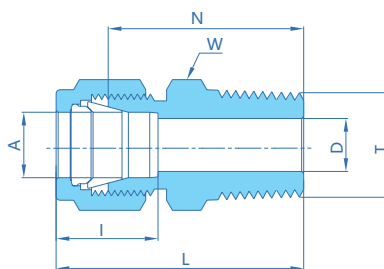


TUBE (METRIC) TO ISO TAPERED THREAD

Ordering Information	A Tube O.D.	T (ISO)	D	W Hex. Flat	N	L	I
	mm	inch	mm	mm	mm	mm	mm
SS-VMC-2M-R2	2	R-1/8	1.7	12	23.9	30.5	12.9
SS-VMC-3M-R2	3	R-1/8	2.4	12	23.9	30.5	12.9
SS-VMC-3M-R4	3	R-1/4	2.4	14	29.0	35.6	12.9
SS-VMC-4M-R2	4	R-1/8	2.4	12	24.6	31.2	13.7
SS-VMC-4M-R4	4	R-1/4	2.4	14	29.7	36.3	13.7
SS-VMC-6M-R2	6	R-1/8	4.8	14	25.4	32.8	15.3
SS-VMC-6M-R4	6	R-1/4	4.8	14	30.5	37.9	15.3
SS-VMC-6M-R6	6	R-3/8	4.8	18	31.0	38.4	15.3
SS-VMC-6M-R8	6	R-1/2	4.8	22	37.3	44.7	15.3
SS-VMC-8M-R2	8	R-1/8	4.8	15	26.7	34.2	16.2
SS-VMC-8M-R4	8	R-1/4	6.4	15	31.2	38.7	16.2
SS-VMC-8M-R6	8	R-3/8	6.4	18	31.8	39.2	16.2
SS-VMC-8M-R8	8	R-1/2	6.4	22	38.1	45.6	16.2
SS-VMC-10M-R2	10	R-1/8	4.8	18	28.7	36.3	17.2
SS-VMC-10M-R4	10	R-1/4	7.9	18	33.3	40.9	17.2
SS-VMC-10M-R6	10	R-3/8	7.9	18	33.3	40.9	17.2
SS-VMC-10M-R8	10	R-1/2	7.9	22	38.9	46.5	17.2
SS-VMC-10M-R12	10	R-3/4	7.9	27	40.4	48.0	17.2
SS-VMC-12M-R4	12	R-1/4	7.1	22	33.3	43.4	22.8
SS-VMC-12M-R6	12	R-3/8	9.5	22	33.3	43.4	22.8
SS-VMC-12M-R8	12	R-1/2	9.5	22	38.9	49.0	22.8
SS-VMC-12M-R12	12	R-3/4	9.5	27	40.4	50.5	22.8
SS-VMC-14M-R4	14	R-1/4	7.1	24	34.0	44.1	24.4
SS-VMC-14M-R6	14	R-3/8	9.5	24	34.0	44.1	24.4
SS-VMC-15M-R8	15	R-1/2	11.9	24	38.9	49.0	24.4
SS-VMC-16M-R4	16	R-1/4	7.1	24	34.0	44.1	24.4
SS-VMC-16M-R6	16	R-3/8	9.5	24	34.0	44.1	24.4
SS-VMC-16M-R8	16	R-1/2	11.9	24	38.9	49.0	24.4
SS-VMC-16M-R12	16	R-3/4	12.7	27	40.4	50.5	24.4
SS-VMC-18M-R8	18	R-1/2	11.9	27	40.4	50.5	24.4
SS-VMC-18M-R12	18	R-3/4	15.1	27	40.4	50.5	24.4
SS-VMC-20M-R8	20	R-1/2	11.9	30	42.2	52.3	26.0
SS-VMC-20M-R12	20	R-3/4	15.9	30	42.2	52.3	26.0
SS-VMC-22M-R12	22	R-3/4	15.9	30	42.2	52.3	26.0
SS-VMC-22M-R16	22	R-1	18.3	35	47.0	57.1	26.0
SS-VMC-25M-R8	25	R-1/2	11.9	35	45.2	57.5	31.3
SS-VMC-25M-R12	25	R-3/4	15.9	35	45.2	57.5	31.3
SS-VMC-25M-R16	25	R-1	21.8	35	45.2	57.5	31.3
SS-VMC-30M-R18	30	R- 1-1/4	26.2	46	55.6	77.2	39.6
SS-VMC-32M-R18	32	R- 1-1/4	28.6	46	56.6	79.6	42
SS-VMC-38M-R24	38	R- 1-1/2	33.7	55	64.0	91.6	49.4
SS-VMC-50M-R32	50	R-2	45.2	3 inch	76.2	113.3	65.0

Tube Fitting VMC Series

Male Connector



TUBE (INCH) TO ISO TAPERED THREAD

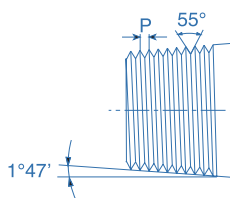
Ordering Information	A Tube O.D.		T (ISO)	D		W Hex. Flat	N		L		I	
	inch	mm		inch	mm		inch	mm	inch	mm	inch	mm
SS-VMC-02-R2	1/8	3.17	R-1/8	.09	2.28	7/16	.94	23.90	1.20	30.48	.50	12.70
SS-VMC-02-R4	1/8	3.17	R-1/4	.09	2.28	9/16	1.14	28.95	1.40	35.56	.50	12.70
SS-VMC-04-R2	1/4	6.35	R-1/8	.19	4.82	1/2	1.00	25.40	1.29	32.76	.60	15.20
SS-VMC-04-R4	1/4	6.35	R-1/4	.19	4.82	9/16	1.20	30.50	1.49	37.85	.60	15.20
SS-VMC-04-R6	1/4	6.35	R-3/8	.19	4.82	11/16	1.22	30.98	1.51	38.35	.60	15.20
SS-VMC-04-R8	1/4	6.35	R-1/2	.19	4.82	7/8	1.47	37.34	1.76	44.70	.60	15.20
SS-VMC-05-R2	5/16	7.93	R-1/8	.19	4.82	9/16	1.05	26.67	1.34	34.03	.64	16.20
SS-VMC-05-R4	5/16	7.93	R-1/4	.25	6.35	9/16	1.23	31.24	1.52	38.60	.64	16.20
SS-VMC-06-R2	3/8	9.52	R-1/8	.19	4.82	5/8	1.10	27.90	1.39	35.30	.66	16.80
SS-VMC-06-R4	3/8	9.52	R-1/4	.28	7.11	5/8	1.28	32.51	1.57	39.87	.66	16.80
SS-VMC-06-R6	3/8	9.52	R-3/8	.28	7.11	11/16	1.28	32.51	1.57	39.87	.66	16.80
SS-VMC-06-R8	3/8	9.52	R-1/2	.28	7.11	7/8	1.53	38.90	1.82	46.23	.66	16.80
SS-VMC-06-R12	3/8	9.52	R-3/4	.28	7.11	11/16	1.59	40.38	1.88	47.75	.66	16.80
SS-VMC-08-R4	1/2	12.70	R-1/4	.28	7.11	13/16	1.31	33.27	1.71	43.43	.90	22.90
SS-VMC-08-R6	1/2	12.70	R-3/8	.38	9.65	13/16	1.31	33.27	1.71	43.43	.90	22.90
SS-VMC-08-R8	1/2	12.70	R-1/2	.41	10.41	7/8	1.53	38.90	1.93	49.02	.90	22.90
SS-VMC-08-R12	1/2	12.70	R-3/4	.41	10.41	1-1/16	1.59	40.38	1.99	50.54	.90	22.90
SS-VMC-10-R8	5/8	15.87	R-1/2	.47	11.90	15/16	1.53	38.86	1.93	49.02	.96	24.40
SS-VMC-12-R12	3/4	19.05	R-3/4	.62	15.74	1-1/16	1.59	40.38	1.99	50.54	.96	24.40
SS-VMC-12-R16	3/4	19.05	R-1	.62	15.74	1-3/8	1.85	47.00	2.25	57.15	.96	24.40
SS-VMC-16-R12	1	25.40	R-3/4	.63	15.90	1-3/8	1.78	45.21	2.26	57.40	1.23	31.20
SS-VMC-16-R16	1	25.40	R-1	.88	22.35	1-3/8	1.97	50.03	2.45	62.23	1.23	31.20
SS-VMC-18-R18	1-1/4	31.75	R-1-1/4	1.09	27.70	1-3/4	2.17	55.12	3.04	77.22	1.62	41.20

Reference Specifications:

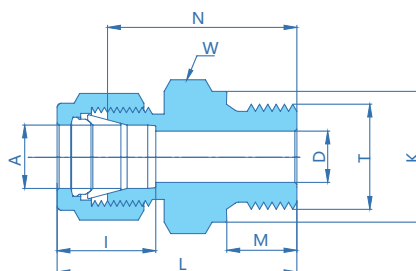
- DIN - ISO 2999
- BS - 21
- JIS - B0203
- ISO - 7/1 - BSP - T
- 55° Thread angle
- Truncation of root and crest is round
- Taper angle 1° 47'

Designation:

Marking LR on Hex.



Male Connector



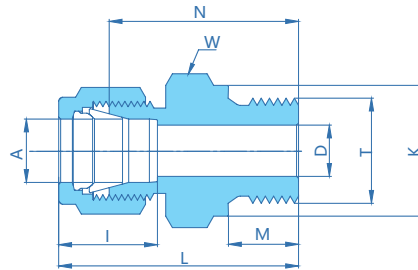
TUBE (METRIC) TO ISO PARALLEL THREAD

Ordering Information	A Tube O.D.	T (P-ISO)	D	K	W Hex. Flat	N	M	L	I
	mm	inch	mm	mm	mm	mm	mm	mm	mm
SS-VMC-2M-G2	2	G-1/8	1.7	13.8	14	23.4	7.1	33.3	12.9
SS-VMC-3M-G2	3	G-1/8	2.4	13.8	14	23.4	7.1	33.3	12.9
SS-VMC-3M-G4	3	G-1/4	2.4	18.0	19	28.7	11.2	38.1	12.9
SS-VMC-4M-G2	4	G-1/8	2.4	13.8	14	24.1	7.1	34.0	13.7
SS-VMC-6M-G2	6	G-1/8	4.0	13.8	14	24.9	7.1	35.6	15.3
SS-VMC-6M-G4	6	G-1/4	4.8	18.0	19	30.2	11.2	40.4	15.3
SS-VMC-6M-G6	6	G-3/8	4.8	21.8	22	31.5	11.2	41.1	15.3
SS-VMC-6M-G8	6	G-1/2	4.8	26.0	27	37.3	14.2	43.2	15.3
SS-VMC-8M-G2	8	G-1/8	4.0	13.8	15	25.7	7.1	36.6	16.2
SS-VMC-8M-G4	8	G-1/4	6.4	18.0	19	31.0	11.2	41.4	16.2
SS-VMC-8M-G6	8	G-3/8	6.4	21.8	22	32.3	11.2	42.2	16.2
SS-VMC-8M-G8	8	G-1/2	6.4	26.0	27	38.1	14.2	44.2	16.2
SS-VMC-10M-G4	10	G-1/4	5.9	18.0	19	31.8	11.2	42.2	17.2
SS-VMC-10M-G6	10	G-3/8	7.9	21.8	22	33.0	11.2	42.9	17.2
SS-VMC-10M-G8	10	G-1/2	7.9	26.0	27	38.9	14.2	45.0	17.2
SS-VMC-12M-G4	12	G-1/4	5.9	18.0	22	32.5	11.2	44.5	22.8
SS-VMC-12M-G6	12	G-3/8	7.9	21.8	22	33.0	11.2	45.5	22.8
SS-VMC-12M-G8	12	G-1/2	9.5	26.0	27	37.4	14.2	47.5	22.8
SS-VMC-12M-G12	12	G-3/4	9.5	32.0	35	42.7	15.7	52.1	22.8
SS-VMC-14M-G6	14	G-3/8	7.9	21.8	24	33.8	11.2	43.9	24.4
SS-VMC-14M-G8	14	G-1/2	11.1	26.0	27	38.9	14.2	47.5	24.4
SS-VMC-15M-G6	15	G-3/8	7.9	21.8	24	33.8	11.2	45.5	24.4
SS-VMC-15M-G8	15	G-1/2	11.9	26.0	27	37.4	14.2	47.5	24.4
SS-VMC-15M-G12	15	G-3/4	11.9	32.0	35	42.1	15.7	52.8	24.4
SS-VMC-16M-G6	16	G-3/8	7.9	21.8	24	33.8	11.2	45.5	24.4
SS-VMC-16M-G8	16	G-1/2	11.9	26.0	27	38.9	14.2	47.5	24.4
SS-VMC-16M-G12	16	G-3/4	12.7	32.0	35	42.1	15.7	52.8	24.4
SS-VMC-18M-G8	18	G-1/2	11.9	26.0	27	38.9	14.2	48.8	24.4
SS-VMC-18M-G12	18	G-3/4	15.1	32.0	35	42.7	15.7	52.1	24.4
SS-VMC-20M-G8	20	G-1/2	11.9	26.0	30	40.4	14.2	50.5	26.0
SS-VMC-20M-G12	20	G-3/4	15.9	32.0	35	42.7	15.7	52.6	26.0
SS-VMC-22M-G12	22	G-3/4	15.9	32.0	35	42.7	15.7	52.6	26.0
SS-VMC-22M-G16	22	G-1	18.3	39.0	41	45.2	18.3	54.9	26.0
SS-VMC-25M-G12	25	G-3/4	15.9	32.0	35	45.2	15.7	57.7	31.3
SS-VMC-25M-G16	25	G-1	19.8	39.0	41	47.8	18.3	59.7	31.3
SS-VMC-30M-G18	30	G- 1-1/4	25	49	50	55.6	19.8	76.7	39.6
SS-VMC-32M-G18	32	G- 1-1/4	25	49	50	56.2	19.8	79.2	42
SS-VMC-38M-G24	38	G- 1-1/2	31.8	54.7	55	63.2	22.1	90.9	49.4

* When ordering code SS-VMC-**-AG**, "AG" stands for combined gaskets.

Tube Fitting VMC Series

Male Connector



TUBE (INCH) TO ISO PARALLEL THREAD

Ordering Information	A Tube O.D.		T (P-ISO)	D		K		W Hex. Flat	N		M		L		I	
	inch	mm		inch	mm	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm
SS-VMC-02-G2	1/8	3.17	G-1/8	0.09	2.30	0.54	13.80	9/16	0.92	23.40	0.28	7.10	1.18	33.30	0.50	12.7
SS-VMC-02-G4	1/8	3.17	G-1/4	0.09	2.30	0.71	18.00	3/4	1.13	28.70	0.44	11.20	1.39	38.10	0.50	12.7
SS-VMC-02-G6	1/8	3.17	G-3/8	0.09	2.30	0.86	21.80	7/8	1.17	29.72	0.44	11.20	1.43	38.90	0.50	12.7
SS-VMC-02-G8	1/8	3.17	G-1/2	0.09	2.30	1.02	26.00	1-1/16	1.40	35.70	0.56	14.20	1.66	42.16	0.50	12.7
SS-VMC-03-G2	3/16	4.76	G-1/8	0.12	3.10	0.54	13.80	9/16	0.95	24.10	0.28	7.10	1.21	30.70	0.54	13.7
SS-VMC-04-G2	1/4	6.35	G-1/8	0.16	4.10	0.54	13.80	9/16	0.98	24.90	0.28	7.10	1.27	35.60	0.60	15.2
SS-VMC-04-G4	1/4	6.35	G-1/4	0.19	4.80	0.71	18.00	3/4	1.19	30.20	0.44	11.20	1.48	40.40	0.60	5.2
SS-VMC-04-G6	1/4	6.35	G-3/8	0.19	4.80	0.86	21.80	7/8	1.24	31.50	0.44	11.20	1.50	41.10	0.60	15.2
SS-VMC-04-G8	1/4	6.35	G-1/2	0.19	4.80	1.02	26.00	1-1/16	1.47	37.30	0.56	14.20	1.76	43.20	0.60	15.2
SS-VMC-05-G4	5/16	7.93	G-1/4	0.23	5.80	0.71	18.00	3/4	1.22	31.00	0.44	11.20	1.51	38.36	0.64	16.2
SS-VMC-05-G6	5/16	7.93	G-3/8	0.25	6.40	0.86	21.80	7/8	1.27	32.30	0.44	11.20	1.56	39.66	0.64	16.2
SS-VMC-06-G2	3/8	9.52	G-1/8	0.16	4.00	1.26	32.00	5/8	1.05	26.70	0.28	7.10	1.34	37.80	0.66	16.8
SS-VMC-06-G4	3/8	9.52	G-1/4	0.23	5.80	0.71	18.00	3/4	1.25	31.75	0.44	11.20	1.54	41.90	0.66	16.8
SS-VMC-06-G6	3/8	9.52	G-3/8	0.28	7.10	0.86	21.80	7/8	1.30	33.00	0.44	11.20	1.59	42.70	0.66	16.8
SS-VMC-06-G8	3/8	9.52	G-1/2	0.28	7.10	1.02	26.00	1-1/16	1.53	38.86	0.56	14.20	1.82	44.70	0.66	16.8
SS-VMC-08-G4	1/2	12.70	G-1/4	0.23	5.80	0.71	18.00	13/16	1.28	32.50	0.44	11.20	1.68	44.70	0.90	22.9
SS-VMC-08-G6	1/2	12.70	G-3/8	0.31	7.90	0.86	21.80	7/8	1.30	33.00	0.44	11.20	1.70	45.50	0.90	22.9
SS-VMC-08-G8	1/2	12.70	G-1/2	0.41	10.40	1.02	26.00	1-1/16	1.47	37.40	0.56	14.20	1.87	47.56	0.90	22.9
SS-VMC-08-G12	1/2	12.70	G-3/4	0.41	10.40	1.26	32.00	1-5/16	1.68	42.70	0.62	15.70	2.08	52.86	0.90	22.9
SS-VMC-10-G6	5/8	15.87	G-3/8	0.31	7.90	0.86	21.80	24mm	1.33	33.80	0.44	11.20	1.73	43.96	0.96	24.4
SS-VMC-10-G8	5/8	15.87	G-1/2	0.47	11.90	1.02	26.00	1-1/16	1.53	38.90	0.56	14.20	1.93	49.10	0.96	24.4
SS-VMC-12-G8	3/4	19.05	G-1/2	0.47	11.90	1.02	26.00	1-1/16	1.53	38.86	0.56	14.20	1.93	48.80	0.96	24.4
SS-VMC-12-G12	3/4	19.05	G-3/4	0.62	15.80	1.26	32.00	1-5/16	1.68	42.70	0.62	15.70	2.08	52.10	0.96	24.4
SS-VMC-16-G8	1	25.40	G-1/2	0.47	11.90	1.02	26.00	1-3/8	1.72	43.70	0.56	14.20	2.20	55.60	1.23	31.2
SS-VMC-16-G12	1	25.40	G-3/4	0.62	15.90	1.26	32.00	1-3/8	1.78	45.20	0.62	15.70	2.26	57.70	1.23	31.2
SS-VMC-16-G16	1	25.40	G-1	0.78	19.80	1.54	39.00	1-5/8	1.88	47.80	0.72	18.30	2.36	59.70	1.23	31.2

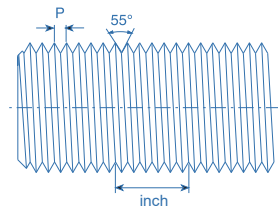
* When ordering code SS-VMC-**-AG**, "AG" stands for combined gaskets.

Reference Specifications:

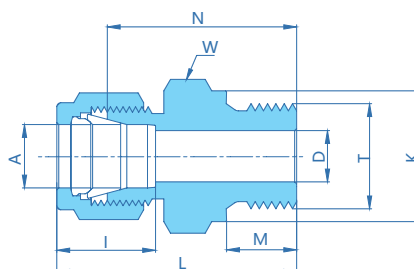
- DIN - ISO 228/1
- BS - 2779
- JIS - B0202
- ISO - 228/1 - BSP - P
- 55° Thread angle
- Pitch measured in inches
- Truncation of root and crest is round
- Diameter measured in inches

Designation:

Marking LG on Hex.



Male Connector



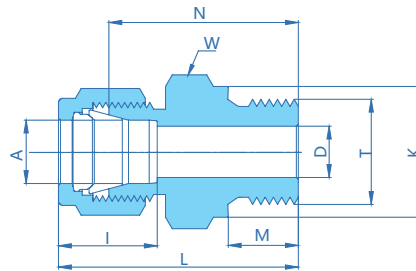
TUBE (METRIC) TO ISO PARALLEL THREAD

Ordering Information	A Tube O.D.	T (P-ISO)	D	K	W Hex. Flat	N	M	L	I
	mm	inch	mm	mm	mm	mm	mm	mm	mm
SS-VMC-3M-G2	3	G-1/8A	2.4	13.8	14	26.7	7.1	33.3	12.9
SS-VMC-3M-G4	3	G-1/4A	2.4	18.0	19	28.7	11.2	35.3	12.9
SS-VMC-4M-G2	4	G-1/8A	2.4	13.8	14	24.1	7.1	30.7	13.7
SS-VMC-6M-G2	6	G-1/8A	4.0	13.8	14	24.9	7.1	32.3	15.3
SS-VMC-6M-G4	6	G-1/4A	4.8	18.0	19	30.2	11.2	37.6	15.3
SS-VMC-6M-G6	6	G-3/8A	4.8	21.8	22	31.5	11.2	38.9	15.3
SS-VMC-6M-G8	6	G-1/2A	4.8	26.0	27	37.3	14.2	44.7	15.3
SS-VMC-8M-G2	8	G-1/8A	4.0	13.8	15	25.7	7.1	33.2	16.2
SS-VMC-8M-G4	8	G-1/4A	6.4	18.0	19	31.0	11.2	38.5	16.2
SS-VMC-8M-G6	8	G-3/8A	6.4	21.8	22	32.3	11.2	39.8	16.2
SS-VMC-8M-G8	8	G-1/2A	6.4	26.0	27	38.1	14.2	45.6	16.2
SS-VMC-10M-G4	10	G-1/4A	6.4	18.0	19	31.8	11.2	39.4	17.2
SS-VMC-10M-G6	10	G-3/8A	7.9	21.8	22	33.0	11.2	40.6	17.2
SS-VMC-10M-G8	10	G-1/2A	7.9	26.0	17	38.9	14.2	46.5	17.2
SS-VMC-12M-G4	12	G-1/4A	5.9	18.0	22	32.5	11.2	42.6	22.8
SS-VMC-12M-G6	12	G-3/8A	7.9	21.8	22	33.0	11.2	43.1	22.8
SS-VMC-12M-G8	12	G-1/2A	9.5	26.0	27	38.9	14.2	49.0	22.8
SS-VMC-12M-G12	12	G-3/4A	9.5	32.0	35	42.7	15.7	52.8	22.8
SS-VMC-15M-G8	15	G-1/2A	11.9	26.0	27	38.9	14.2	49.0	24.4
SS-VMC-16M-G6	16	G-3/8A	7.9	21.8	24	33.8	11.2	43.9	22.4
SS-VMC-16M-G8	16	G-1/2A	11.9	26.0	27	38.9	14.2	49.0	22.4
SS-VMC-18M-G8	18	G-1/2A	11.9	26.0	27	38.9	14.2	49.0	22.4
SS-VMC-18M-G12	18	G-3/4A	15.1	32.0	35	42.2	15.7	52.3	22.4
SS-VMC-20M-G8	20	G-1/2A	11.9	26.0	30	40.4	14.2	50.5	26.0
SS-VMC-20M-G12	20	G-3/4A	15.9	32.0	35	42.7	15.7	52.8	26.0
SS-VMC-22M-G12	22	G-3/4A	15.9	32.0	35	42.7	15.7	52.8	26.0
SS-VMC-22M-G16	22	G-1A	18.3	39.0	41	45.2	18.3	55.3	26.0
SS-VMC-25M-G12	25	G-3/4A	15.9	32.0	35	45.2	15.7	57.5	31.3
SS-VMC-25M-G16	25	G-1A	19.8	39.0	41	47.8	18.3	60.1	31.3
SS-VMC-30M-G18	30	G- 1-1/4A	26.2	49	50	55.2	19.8	76.8	39.6
SS-VMC-32M-G18	32	G- 1-1/4A	28.6	49	50	55.9	19.8	78.9	42
SS-VMC-38M-G24	38	G- 1-1/2A	31.8	54.7	55	64.9	20.6	92.1	49.4

* When ordering code SS-VMC-**-AG**, "AG" stands for combined gaskets.

Tube Fitting VMC Series

Male Connector

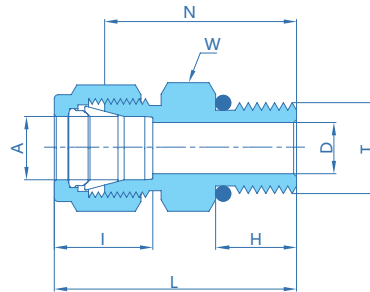


TUBE (INCH) TO ISO PARALLEL THREAD

Ordering Information	A Tube O.D.		T Straight Thread	D		K		W Hex. Flat	N		M		L		I	
	inch	mm		inch	mm	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm
SS-VMC-02-G2	1/8	3.17	G-1/8A	0.09	2.30	0.54	13.80	9/16	0.92	23.40	0.28	7.10	1.18	30.00	0.50	12.7
SS-VMC-02-G4	1/8	3.17	G-1/4A	0.09	2.30	0.71	18.00	3/4	1.13	28.70	0.44	11.20	1.39	35.30	0.50	12.7
SS-VMC-04-G2	1/4	6.35	G-1/8A	0.16	4.10	0.54	13.80	9/16	0.98	24.90	0.28	7.10	1.27	32.26	0.60	15.2
SS-VMC-04-G4	1/4	6.35	G-1/4A	0.19	4.80	0.71	18.00	3/4	1.19	30.20	0.44	11.20	1.48	37.60	0.60	15.2
SS-VMC-08-G6	1/2	12.70	G-3/8A	0.31	7.90	0.86	21.80	7/8	1.30	33.00	0.44	11.20	1.70	43.18	0.90	22.9
SS-VMC-08-G8	1/2	12.70	G-1/2A	0.41	10.40	1.02	26.00	1-1/16	1.53	39.86	0.56	14.20	1.93	49.02	0.90	22.9
SS-VMC-12-G8	3/4	19.05	G-1/2A	0.47	11.90	1.02	26.00	1-1/16	3.65	41.91	0.56	14.20	2.05	52.07	0.96	24.4
SS-VMC-12-G12	3/4	19.05	G-3/4A	0.62	15.80	1.26	32.00	1-3/8	1.68	42.70	0.62	15.70	2.08	52.83	0.96	24.4
SS-VMC-16-G16	1	25.40	G-1A	0.78	19.80	1.54	39.00	1-5/8	1.88	47.80	0.72	18.30	2.36	59.94	1.23	31.2

* When ordering code SS-VMC-**-AG**, "AG" stands for combined gaskets.

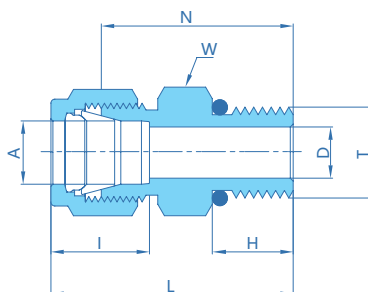
Male Connector



SAE / MS STRAIGHT THREAD BOSS

Ordering Information	A Tube O.D.	T Straight Thread	D	W Hex. Flat	N	H	L	I	O-ring
	mm	inch	mm	mm	mm	mm	mm	mm	
SS-VMC-3M-A2	3	5/16-24	2.4	7/16	23.4	7.6	30.0	12.9	-902
SS-VMC-3M-A6	3	9/16-18	2.4	18	26.7	9.9	33.3	12.9	-906
SS-VMC-6M-A5	6	1/2-20	4.8	17	27.4	9.1	34.8	15.3	-905
SS-VMC-6M-A6	6	9/16-18	4.8	18	28.2	9.9	35.6	15.3	-906
SS-VMC-6M-A10	6	7/8-14	4.8	27	33.3	12.7	40.7	15.3	-910
SS-VMC-8M-A5	8	1/2-20	6.4	17	27.4	9.1	34.9	16.2	-905
SS-VMC-8M-A6	8	9/16-18	6.4	18	29.1	9.9	36.6	16.2	-906
SS-VMC-10M-A6	10	9/16-18	7.1	18	29.7	9.9	37.3	17.2	-906
SS-VMC-10M-A8	10	3/4-16	7.9	22	31.8	11.2	39.4	17.2	-908
SS-VMC-12M-A4	12	7/16-20	5.2	22	30.5	9.1	40.6	22.8	-904
SS-VMC-12M-A6	12	9/16-18	7.1	22	29.0	9.9	39.1	22.8	-906
SS-VMC-12M-A8	12	3/4-16	9.5	22	31.8	11.2	41.9	22.8	-908
SS-VMC-16M-A6	16	9/16-18	7.1	24	21.2	9.9	31.3	24.4	-906
SS-VMC-25M-A12	25	1-1/16-12	16.7	35	41.2	15.0	53.5	31.3	-912

Male Connector

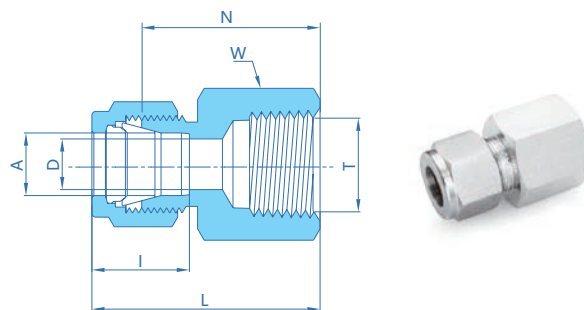


SAE / MS STRAIGHT THREAD BOSS

Ordering Information	A Tube O.D.		T Straight Thread	D		W Hex. Flat	N		H		L		I		O-ring
	inch	mm		inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	
SS-VMC-02-A2	1/8	3.17	5/16-24	.09	2.28	7/16	.92	23.37	.30	7.62	1.18	29.97	.50	12.7	-902
SS-VMC-02-A4	1/8	3.17	7/16-20	.09	2.28	9/16	.98	24.89	.36	9.14	1.24	31.50	.50	12.7	-904
SS-VMC-02-A6	1/8	3.17	9/16-18	.09	2.28	11/16	1.05	26.67	.39	9.90	1.31	33.27	.50	12.7	-906
SS-VMC-04-A2	1/4	6.35	5/16-24	.09	2.28	9/16	.92	23.37	.30	7.62	1.21	32.30	.60	15.2	-902
SS-VMC-04-A4	1/4	6.35	7/16-20	.19	4.82	9/16	1.05	26.67	.36	9.14	1.34	34.03	.60	15.2	-904
SS-VMC-04-A6	1/4	6.35	9/16-18	.19	4.82	11/16	1.11	28.19	.39	9.90	1.40	35.56	.60	15.2	-906
SS-VMC-04-A8	1/4	6.35	3/4 -16	.19	4.82	7/8	1.19	30.20	.44	11.17	1.48	37.59	.60	15.2	-908
SS-VMC-04-A10	1/4	6.35	7/8-14	.19	4.82	1	1.31	33.27	.50	12.70	1.60	40.64	.60	15.2	-910
SS-VMC-05-A5	5/16	7.93	1/2-20	.25	6.40	5/8	1.08	27.43	.36	9.14	1.37	34.80	.64	16.2	-905
SS-VMC-06-A4	3/8	9.52	7/16-20	.20	5.10	5/8	1.11	28.19	.36	9.14	1.40	35.56	.66	16.8	-904
SS-VMC-06-A6	3/8	9.52	9/16-18	.28	7.11	11/16	1.17	29.71	.39	9.90	1.46	37.02	.66	16.8	-906
SS-VMC-06-A8	3/8	9.52	3/4 -16	.28	7.11	7/8	1.25	31.75	.44	11.17	1.54	39.11	.66	16.8	-908
SS-VMC-06-A10	3/8	9.52	7/8-14	.28	7.11	1	1.37	34.80	.50	12.70	1.66	42.16	.66	16.8	-910
SS-VMC-08-A6	1/2	12.70	9/16-18	.28	7.11	13/16	1.14	28.95	.39	9.90	1.54	39.11	.90	22.9	-906
SS-VMC-08-A8	1/2	12.70	3/4 -16	.41	10.41	7/8	1.25	31.75	.44	11.17	1.65	41.91	.90	22.9	-908
SS-VMC-08-A10	1/2	12.70	7/8-14	.41	10.41	1	1.37	34.80	.50	12.70	1.77	44.96	.90	22.9	-910
SS-VMC-08-A12	1/2	12.70	1-1/16-12	.41	10.41	1-1/4	1.53	38.86	.59	14.98	1.93	49.02	.90	22.9	-912
SS-VMC-10-A8	5/8	15.87	3/4 -16	.42	10.66	15/16	1.25	31.75	.44	11.17	1.65	41.91	.96	22.4	-908
SS-VMC-10-A10	5/8	15.87	7/8 -14	.50	12.70	1	1.38	35.05	.50	12.70	1.78	45.21	.96	22.4	-910
SS-VMC-12-A8	3/4	19.05	3/4 -16	.42	10.66	1-1/16	1.41	35.81	.44	11.17	1.81	46.0	.96	22.4	-908
SS-VMC-12-A12	3/4	19.05	1-1/16 -12	.62	15.74	1-1/4	1.53	38.86	.59	14.98	1.93	49.02	.96	22.4	-912
SS-VMC-12-A16	3/4	19.05	1-5/16-12	.62	15.74	1-1/2	1.66	42.16	.59	14.98	2.06	52.32	1.02	25.9	-916
SS-VMC-14-A14	7/8	22.22	1-3/16 -12	.72	18.29	1-3/8	1.53	38.86	.59	14.98	1.93	49.02	1.02	25.9	-914
SS-VMC-16-A12	1	25.40	1-1/16 -12	.66	16.76	1-3/8	1.62	41.20	.59	14.98	2.10	53.34	1.23	31.2	-912
SS-VMC-16-A16	1	25.40	1-5/16 -12	.88	22.35	1-1/2	1.66	42.16	.59	14.98	2.14	54.35	1.23	31.2	-916
SS-VMC-18-A20	1-1/4	31.75	1-5/8 -12	1.09	27.70	1-7/8	1.82	46.23	.59	15.10	2.69	68.33	1.62	41.2	-920
SS-VMC-24-A24	1-1/2	38.10	1-7/8 -12	1.34	34.00	2-1/8	1.99	50.55	.59	15.10	3.06	77.72	1.97	50.0	-924
SS-VMC-32-A32	2	50.80	2-1/2 -12	1.81	45.97	2-3/4	2.53	64.26	.59	15.10	4.00	101.60	2.66	67.6	-932

Tube Fitting VFC Series

Female Connector



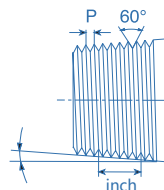
TUBE (METRIC) TO NPT(F)

Ordering Information	A Tube O.D.	T (NPT)	D	W Hex. Flat	N	L	I
	mm	inch	mm	mm	mm	mm	mm
SS-VFC-3M-F2	3	1/8	2.4	14	22.1	28.7	12.9
SS-VFC-3M-F4	3	1/4	2.4	19	26.9	33.5	12.9
SS-VFC-4M-F2	4	1/8	2.4	14	23.1	29.7	13.7
SS-VFC-6M-F2	6	1/8	4.8	14	23.9	31.3	15.3
SS-VFC-6M-F4	6	1/4	4.8	19	28.4	35.8	15.3
SS-VFC-6M-F6	6	3/8	4.8	22	30.2	37.6	15.3
SS-VFC-6M-F8	6	1/2	4.8	27	35.1	42.5	15.3
SS-VFC-8M-F2	8	1/8	6.4	15	24.6	32.1	16.2
SS-VFC-8M-F4	8	1/4	6.4	19	29.5	37.0	16.2
SS-VFC-8M-F6	8	3/8	6.4	22	31.0	38.5	16.2
SS-VFC-8M-F8	8	1/2	6.4	27	35.8	43.3	16.2
SS-VFC-10M-F4	10	1/4	7.9	19	30.2	37.8	17.2
SS-VFC-10M-F6	10	3/8	7.9	22	31.8	39.4	17.2
SS-VFC-10M-F8	10	1/2	7.9	27	36.6	44.2	17.2
SS-VFC-12M-F4	12	1/4	9.5	22	30.2	40.3	22.8
SS-VFC-12M-F6	12	3/8	9.5	22	31.8	41.9	22.8
SS-VFC-12M-F8	12	1/2	9.5	27	36.6	46.7	22.8
SS-VFC-15M-F8	15	1/2	11.9	27	36.6	46.7	24.4
SS-VFC-16M-F8	16	1/2	12.7	27	36.8	46.9	24.4
SS-VFC-20M-F8	20	1/2	15.9	30	37.8	47.9	26.0
SS-VFC-20M-F12	20	3/4	15.9	35	39.6	49.7	26.0
SS-VFC-22M-F12	22	3/4	18.3	35	39.6	49.7	26.0
SS-VFC-22M-F16	22	1	18.3	41	47.8	57.9	26.0
SS-VFC-25M-F12	25	3/4	21.8	35	41.1	53.4	31.3
SS-VFC-25M-F16	25	1	21.8	41	50.0	62.3	31.3

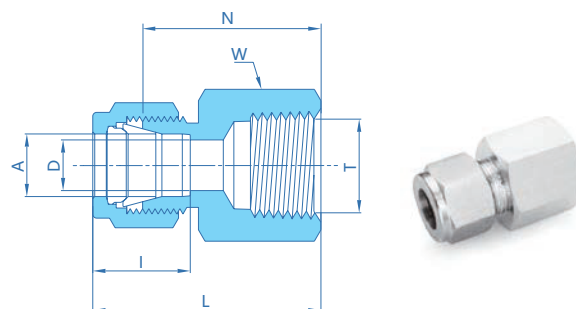
Reference Specifications:

- 60° Thread angle
- Pitch measured in inches
- Truncation of root and crest is flat
- Taper angle 1° 47'

- American Standard Pipe Thread (NPT).
- NPT (National Pipe Tapered) is made according to the specifications outlined in ANSI B1.20.1.



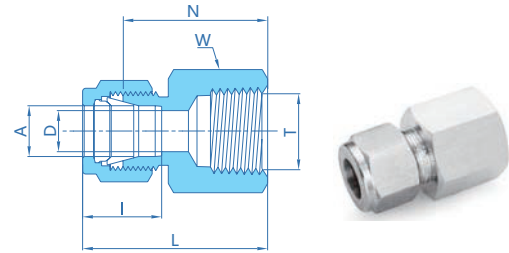
Female Connector



TUBE (INCH) TO NPT(F)												
Ordering Information	A Tube O.D.		T (NPT)	D		W Hex. Flat	N		L		I	
	inch	mm	inch	inch	mm	inch	inch	mm	inch	mm	inch	mm
SS-VFC-01-F1	1/16	1.58	1/16	.05	1.27	7/16	.78	19.81	.93	23.62	.34	8.6
SS-VFC-01-F2	1/16	1.58	1/8	.05	1.27	9/16	.81	20.57	.96	24.38	.34	8.6
SS-VFC-02-F2	1/8	3.17	1/8	.09	2.28	9/16	.87	22.10	1.13	28.70	.50	12.7
SS-VFC-02-F4	1/8	3.17	1/4	.09	2.28	3/4	1.06	26.92	1.32	33.52	.50	12.7
SS-VFC-03-F2	3/16	4.76	1/8	.12	3.04	9/16	.91	23.11	1.17	29.71	.54	13.7
SS-VFC-04-F2	1/4	6.35	1/8	.19	4.82	9/16	.94	23.87	1.23	31.24	.60	15.2
SS-VFC-04-F4	1/4	6.35	1/4	.19	4.82	3/4	1.12	28.44	1.41	35.81	.60	15.2
SS-VFC-04-F6	1/4	6.35	3/8	.19	4.82	7/8	1.19	30.22	1.48	37.59	.60	15.2
SS-VFC-04-F8	1/4	6.35	1/2	.19	4.82	1-1/16	1.38	35.00	1.67	42.42	.60	15.2
SS-VFC-05-F2	5/16	7.93	1/8	.25	6.35	9/16	.97	24.63	1.26	32.00	.64	16.2
SS-VFC-05-F4	5/16	7.93	1/4	.25	6.35	3/4	1.16	29.46	1.45	36.83	.64	16.2
SS-VFC-06-F2	3/8	9.52	1/8	.28	7.11	5/8	1.00	25.40	1.29	32.76	.66	16.8
SS-VFC-06-F4	3/8	9.52	1/4	.28	7.11	3/4	1.19	30.22	1.48	37.59	.66	16.8
SS-VFC-06-F6	3/8	9.52	3/8	.28	7.11	7/8	1.25	31.75	1.54	39.11	.66	16.8
SS-VFC-06-F8	3/8	9.52	1/2	.28	7.11	1-1/16	1.44	36.57	1.73	43.94	.66	16.8
SS-VFC-06-F12	3/8	9.52	3/4	.28	7.11	1-5/16	1.59	40.40	1.88	47.75	.66	16.8
SS-VFC-08-F4	1/2	12.70	1/4	.41	10.41	13/16	1.19	30.22	1.59	40.38	.90	22.9
SS-VFC-08-F6	1/2	12.70	3/8	.41	10.41	7/8	1.25	31.75	1.65	41.91	.90	22.9
SS-VFC-08-F8	1/2	12.70	1/2	.41	10.41	1-1/16	1.44	36.57	1.84	46.73	.90	22.9
SS-VFC-08-F12	1/2	12.70	3/4	.41	10.41	1-5/16	1.50	38.10	1.90	48.26	.90	22.9
SS-VFC-10-F6	5/8	15.87	3/8	.50	12.70	15/16	1.25	31.75	1.65	41.91	.96	24.4
SS-VFC-10-F8	5/8	15.87	1/2	.50	12.70	1-1/16	1.44	36.57	1.84	46.73	.96	24.4
SS-VFC-10-F12	5/8	15.87	3/4	.50	12.70	1-5/16	1.50	38.10	1.90	48.26	.96	24.4
SS-VFC-12-F8	3/4	19.05	1/2	.62	15.75	1-1/16	1.44	36.57	1.84	46.73	.96	24.4
SS-VFC-12-F12	3/4	19.05	3/4	.62	15.75	1-5/16	1.50	38.10	1.90	48.26	.96	24.4
SS-VFC-14-F12	7/8	22.22	3/4	.72	18.28	1-5/16	1.56	39.62	1.96	49.78	1.02	25.9
SS-VFC-16-F12	1	25.40	3/4	.88	22.35	1-3/8	1.62	41.14	2.10	53.34	1.23	31.2
SS-VFC-16-F16	1	25.40	1	.88	22.35	1-5/8	1.97	50.03	2.45	62.23	1.23	31.2
SS-VFC-18-F18	1-1/4	31.75	1-1/4	1.09	27.70	2-1/4	2.07	52.59	2.94	74.68	1.62	41.2
SS-VFC-24-F24	1-1/2	38.10	1-1/2	1.34	34.00	2-3/8	2.21	56.13	3.28	83.31	1.97	50.0
SS-VFC-32-F32	2	50.80	2	1.81	45.97	2-7/8	2.53	64.26	4.00	101.60	2.66	67.6

Tube Fitting VFC Series

Female Connector



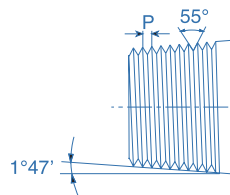
TUBE (METRIC) TO FEMALE ISO TAPERED THREAD

Ordering Information	A Tube O.D.	T (ISO)	D	W Hex. Flat	N	L	I
	mm	inch	mm	mm	mm	mm	mm
SS-VFC-3M-R2	3	R-1/8	2.4	14	22.1	28.7	12.9
SS-VFC-6M-R2	6	R-1/8	4.8	14	23.9	31.3	15.3
SS-VFC-6M-R4	6	R-1/4	4.8	19	28.4	35.8	15.3
SS-VFC-6M-R6	6	R-3/8	4.8	22	30.2	37.6	15.3
SS-VFC-6M-R8	6	R-1/2	4.8	27	35.1	42.5	15.3
SS-VFC-8M-R2	8	R-1/8	6.4	15	24.6	32.1	16.2
SS-VFC-8M-R4	8	R-1/4	6.4	19	29.5	37.0	16.2
SS-VFC-8M-R6	8	R-3/8	6.4	22	31.0	38.5	16.2
SS-VFC-8M-R8	8	R-1/2	6.4	27	35.8	43.3	16.2
SS-VFC-10M-R2	10	R-1/8	7.9	18	25.4	33.0	17.2
SS-VFC-10M-R4	10	R-1/4	7.9	19	30.2	37.8	17.2
SS-VFC-10M-R6	10	R-3/8	7.9	22	31.8	39.4	17.2
SS-VFC-10M-R8	10	R-1/2	7.9	27	36.6	44.2	17.2
SS-VFC-12M-R2	12	R-1/8	8.3	22	25.4	35.5	22.8
SS-VFC-12M-R4	12	R-1/4	9.5	22	30.2	40.3	22.8
SS-VFC-12M-R6	12	R-3/8	9.5	22	31.8	41.9	22.8
SS-VFC-12M-R8	12	R-1/2	9.5	27	36.6	46.7	22.8
SS-VFC-12M-R12	12	R-3/4	9.5	35	38.9	49.0	22.8
SS-VFC-15M-R6	15	R-3/8	11.9	24	31.8	41.9	24.4
SS-VFC-15M-R8	15	R-1/2	11.9	27	36.6	46.7	24.4
SS-VFC-20M-R8	20	R-1/2	15.9	30	37.8	47.9	26.0
SS-VFC-20M-R12	20	R-3/4	15.9	35	39.6	49.7	26.0
SS-VFC-22M-R12	22	R-3/4	18.3	35	39.6	49.7	26.0
SS-VFC-22M-R16	22	R-1	18.3	41	47.8	57.9	26.0
SS-VFC-25M-R12	25	R-3/4	21.8	35	41.1	53.4	31.3
SS-VFC-25M-R16	25	R-1	21.8	41	50.0	62.3	31.3

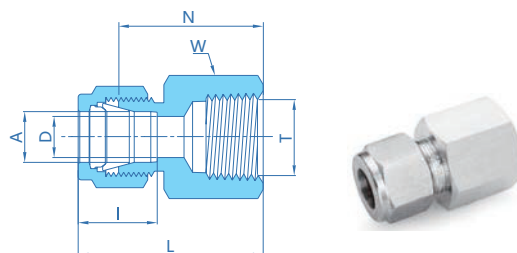
Reference Specifications:

- DIN - ISO 2999
- BS - 21
- JIS - B0203
- ISO - 7/1 - BSP - T
- 55° Thread angle
- Truncation of root and crest is round
- Taper angle 1° 47'

Designation:
Marking LR on Hex.



Fmale Connector



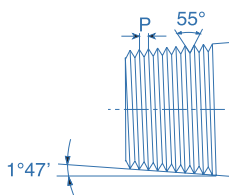
TUBE (INCH) TO FEMALE ISO TAPERED THREAD

Ordering Information	A Tube O.D.		T (ISO)	D		W Hex. Flat	N		L		I	
	inch	mm	inch	inch	mm	inch	inch	mm	inch	mm	inch	mm
SS-VFC-01-R1	1/16	1.58	R-1/16	.05	1.27	7/16	.78	19.81	.93	23.62	.34	8.6
SS-VFC-01-R2	1/16	1.58	R-1/8	.05	1.27	9/16	.81	20.57	.96	24.38	.34	8.6
SS-VFC-02-R2	1/8	3.17	R-1/8	.09	2.28	9/16	.87	22.10	1.13	28.70	.50	12.7
SS-VFC-02-R4	1/8	3.17	R-1/4	.09	2.28	3/4	1.06	26.92	1.32	33.52	.50	12.7
SS-VFC-03-R2	3/16	4.76	R-1/8	.12	3.04	9/16	.91	23.11	1.17	29.71	.54	13.7
SS-VFC-04-R2	1/4	6.35	R-1/8	.19	4.82	9/16	.94	23.87	1.23	31.24	.60	15.2
SS-VFC-04-R4	1/4	6.35	R-1/4	.19	4.82	3/4	1.12	28.44	1.41	35.81	.60	15.2
SS-VFC-04-R6	1/4	6.35	R-3/8	.19	4.82	7/8	1.19	30.22	1.48	37.59	.60	15.2
SS-VFC-04-R8	1/4	6.35	R-1/2	.19	4.82	1-1/16	1.38	35.00	1.67	42.42	.60	15.2
SS-VFC-05-R4	5/16	7.93	R-1/4	.25	6.35	3/4	1.16	29.46	1.45	36.83	.64	16.2
SS-VFC-06-R2	3/8	9.52	R-1/8	.28	7.11	5/8	1.00	25.40	1.29	32.76	.66	16.8
SS-VFC-06-R4	3/8	9.52	R-1/4	.28	7.11	3/4	1.19	30.22	1.48	37.59	.66	16.8
SS-VFC-06-R6	3/8	9.52	R-3/8	.28	7.11	7/8	1.25	31.75	1.54	39.11	.66	16.8
SS-VFC-06-R8	3/8	9.52	R-1/2	.28	7.11	1-1/16	1.44	36.57	1.73	43.94	.66	16.8
SS-VFC-08-R4	1/2	12.70	R-1/4	.41	10.41	13/16	1.19	30.20	1.59	40.38	.90	22.9
SS-VFC-08-R6	1/2	12.70	R-3/8	.41	10.41	7/8	1.25	31.75	1.65	41.91	.90	22.9
SS-VFC-08-R8	1/2	12.70	R-1/2	.41	10.41	1-1/16	1.44	36.57	1.84	46.73	.90	22.9
SS-VFC-10-R8	5/8	15.87	R-1/2	.50	12.70	1-1/16	1.44	36.57	1.84	46.73	.96	24.4
SS-VFC-12-R8	3/4	19.05	R-1/2	.62	15.75	1-1/16	1.44	36.57	1.84	46.73	.96	24.4
SS-VFC-12-R12	3/4	19.05	R-3/4	.62	15.75	1-5/16	1.50	38.10	1.90	48.26	.96	24.4
SS-VFC-16-R12	1	25.40	R-3/4	.88	22.35	1-3/8	1.62	41.14	2.10	53.34	1.23	31.2
SS-VFC-16-R16	1	25.40	R-1	.88	22.35	1-5/8	1.97	50.03	2.45	62.23	1.23	31.2

Reference Specifications:

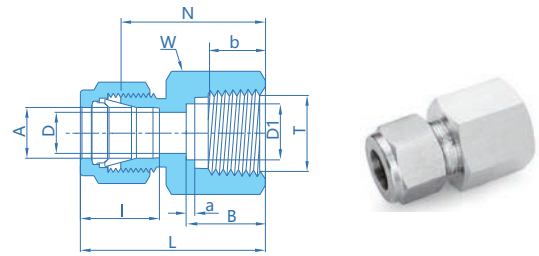
- DIN - ISO 2999
- BS - 21
- JIS - B0203
- ISO - 7/1 - BSP - T
- 55° Thread angle
- Truncation of root and crest is round
- Taper angle 1° 47'

Designation:
Marking LR on Hex.



Tube Fitting VFC Series

Female Connector



TUBE (METRIC) TO FEMALE ISO PARALLEL THREAD

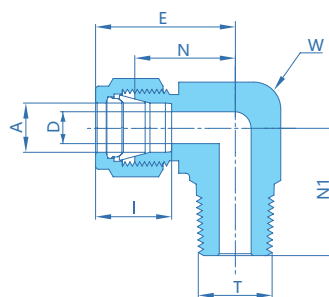
Ordering Information	A Tube O.D.		T (ISO)	D		D1		W Hex. Flat	B		b Min		a Min	N		L		I	
	mm	inch		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SS-VFC-3M-G4	3		G-1/4	2.4	5.5	19	13.0	9.5	1.6	28.7	35.3	12.9							
SS-VFC-6M-G2	6		G-1/8	4.0	4.0	14	10.0	7.0	1.6	25.0	32.4	15.3							
SS-VFC-6M-G4	6		G-1/4	4.8	5.5	19	13.0	9.5	1.6	30.2	37.6	15.3							
SS-VFC-6M-G6	6		G-3/8	4.8	6.5	24	14.1	10.0	1.6	30.2	37.6	15.3							
SS-VFC-6M-G8	6		G-1/2	4.8	7.0	27	19.0	15.0	1.6	36.1	43.5	15.3							
SS-VFC-8M-G4	8		G-1/4	5.5	5.5	19	13.0	9.5	1.6	31.0	38.5	16.2							
SS-VFC-8M-G6	8		G-3/8	6.4	6.4	24	14.1	10.0	1.6	28.7	36.2	16.2							
SS-VFC-8M-G8	8		G-1/2	7.0	7.0	27	19.0	15.0	1.6	33.5	41.0	16.2							
SS-VFC-10M-G4	10		G-1/4	5.5	5.5	19	13.0	9.5	1.6	31.8	39.4	17.2							
SS-VFC-10M-G6	10		G-3/8	6.5	6.5	24	14.1	10.0	1.6	31.2	38.8	17.2							
SS-VFC-10M-G8	10		G-1/2	7.0	7.0	27	19.0	15.0	1.6	34.5	42.1	17.2							
SS-VFC-12M-G4	12		G-1/4	5.5	5.5	22	13.0	9.5	1.6	31.8	41.9	22.8							
SS-VFC-12M-G6	12		G-3/8	6.5	6.5	24	14.1	10.0	1.6	34.3	44.4	22.8							
SS-VFC-12M-G8	12		G-1/2	7.0	7.0	27	19.0	15.0	1.6	38.1	48.2	22.8							
SS-VFC-20M-G8	20		G-1/2	7.0	7.0	30	19.0	15.0	1.6	44.2	54.3	26.0							
SS-VFC-22M-G8	22		G-1/2	7.0	7.0	30	19.0	15.0	1.6	44.2	54.3	26.0							

TUBE (INCH) TO FEMALE ISO PARALLEL THREAD

Ordering Information	A Tube O.D.		T (ISO)	D		D1		W Hex. Flat	B		b Min		a Min		N		L		I	
	inch	mm	inch	inch	mm	inch	mm	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VFC-02-G4	1/8	3.17	G-1/4	.09	2.3	.22	5.5	3/4	.51	13.0	.37	9.5	.06	1.6	1.13	28.7	1.39	35.3	.50	12.7
SS-VFC-04-G2	1/4	6.35	G-1/8	.16	4.0	.16	4.0	9/16	.40	10.0	.28	7.0	.06	1.6	.98	25.0	1.27	32.4	.60	15.2
SS-VFC-04-G4	1/4	6.35	G-1/4	.19	4.8	.22	5.5	3/4	.51	13.0	.37	9.5	.06	1.6	1.19	30.2	1.48	37.6	.60	15.2
SS-VFC-04-G6	1/4	6.35	G-3/8	.19	4.8	.26	6.5	15/16	.56	14.1	.39	10.0	.06	1.6	1.19	30.2	1.48	37.6	.60	15.2
SS-VFC-04-G8	1/4	6.35	G-1/2	.19	4.8	.28	7.0	1-1/16	.74	19.0	.59	15.0	.06	1.6	1.42	36.1	1.71	43.4	.60	15.2
SS-VFC-05-G4	5/16	7.93	G-1/4	.22	5.5	.22	5.5	3/4	.51	13.0	.37	9.5	.06	1.6	1.22	31.0	1.51	38.4	.64	16.2
SS-VFC-05-G8	5/16	7.93	G-1/2	.28	7.0	.28	7.0	1-1/16	.74	19.0	.59	15.0	.06	1.6	1.32	33.5	1.61	40.9	.64	16.2
SS-VFC-06-G4	3/8	9.52	G-1/4	.22	5.5	.22	5.5	3/4	.51	13.0	.37	9.5	.06	1.6	1.25	31.8	1.54	39.1	.66	16.8
SS-VFC-06-G6	3/8	9.52	G-3/8	.26	6.6	.26	6.6	15/16	.56	14.1	.39	10.0	.06	1.6	1.23	31.2	1.52	38.6	.66	16.8
SS-VFC-06-G8	3/8	9.52	G-1/2	.28	7.0	.28	7.0	1-1/16	.74	19.0	.59	15.0	.06	1.6	1.36	34.5	1.65	41.9	.66	16.8
SS-VFC-08-G6	1/2	12.7	G-3/8	.26	6.5	.26	6.5	15/16	.56	14.1	.39	10.0	.06	1.6	1.35	34.3	1.75	44.5	.90	22.9
SS-VFC-08-G8	1/2	12.7	G-1/2	.28	7.0	.28	7.0	1-1/16	.74	19.0	.59	15.0	.06	1.6	1.50	38.1	1.90	48.2	.90	22.9

* When ordering code SS-VFC-**-AG**, "AG" stands for combined gaskets.

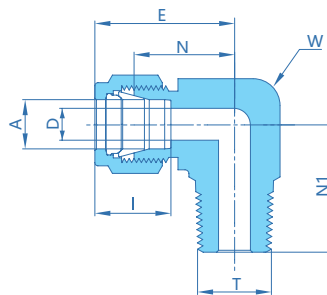
Male Elbow



TUBE (METRIC) TO NPT(M)									
Ordering Information	A Tube O.D.	T (NPT)	D	W Wrench Flat		N	E	N1	I
	mm	inch	mm	inch	mm	mm	mm	mm	mm
SS-VME-3M-M2	3	1/8	2.4	7/16	11.1	17.0	23.6	17.8	12.9
SS-VME-3M-M4	3	1/4	2.4	1/2	12.7	18.0	24.6	23.4	12.9
SS-VME-4M-M2	4	1/8	2.4	1/2	12.7	18.8	25.4	18.8	13.7
SS-VME-4M-M4	4	1/4	2.4	1/2	12.7	18.8	25.4	23.4	13.7
SS-VME-6M-M2	6	1/8	4.8	1/2	12.7	19.6	27.0	18.8	15.3
SS-VME-6M-M4	6	1/4	4.8	1/2	12.7	19.6	27.0	23.4	15.3
SS-VME-6M-M6	6	3/8	4.8	11/16	17.5	22.4	29.8	26.2	15.3
SS-VME-6M-M8	6	1/2	4.8	13/16	20.6	24.4	31.8	33.0	15.3
SS-VME-8M-M2	8	1/8	4.8	9/16	14.3	21.3	28.8	19.8	16.2
SS-VME-8M-M4	8	1/4	6.4	9/16	14.3	21.3	28.8	24.4	16.2
SS-VME-8M-M6	8	3/8	6.4	11/16	17.5	23.1	30.6	26.2	16.2
SS-VME-8M-M8	8	1/2	6.4	13/16	20.6	25.1	32.6	33.0	16.2
SS-VME-10M-M2	10	1/8	4.8	11/16	17.5	23.9	31.5	21.6	17.2
SS-VME-10M-M4	10	1/4	7.1	11/16	17.5	23.9	31.5	26.2	17.2
SS-VME-10M-M6	10	3/8	7.9	11/16	17.5	23.9	31.5	26.2	17.2
SS-VME-10M-M8	10	1/2	7.9	13/16	20.6	25.9	33.5	33.0	17.2
SS-VME-12M-M2	12	1/8	4.8	13/16	20.6	25.9	36.0	23.6	22.8
SS-VME-12M-M4	12	1/4	7.1	13/16	20.6	25.9	36.0	28.2	22.8
SS-VME-12M-M6	12	3/8	9.5	13/16	20.6	25.9	36.0	28.2	22.8
SS-VME-12M-M8	12	1/2	9.5	13/16	20.6	25.9	36.0	33.0	22.8
SS-VME-12M-M12	12	3/4	9.5	1-1/16	27.0	29.7	39.8	36.8	22.8
SS-VME-15M-M8	15	1/2	11.9	15/16	23.8	27.9	38.0	35.1	24.4
SS-VME-16M-M6	16	3/8	9.5	15/16	23.8	27.9	38.0	30.2	24.4
SS-VME-16M-M8	16	1/2	11.9	15/16	23.8	27.9	38.0	35.1	24.4
SS-VME-16M-M12	16	3/4	12.7	1-1/16	27.0	29.7	39.8	36.8	24.4
SS-VME-18M-M8	18	1/2	11.9	1-1/16	27.0	29.7	39.8	36.8	24.4
SS-VME-18M-M12	18	3/4	15.1	1-1/16	27.0	29.7	39.8	36.8	24.4
SS-VME-20M-M8	20	1/2	11.9	1-3/8	34.9	34.5	44.6	41.7	26.0
SS-VME-20M-M12	20	3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
SS-VME-22M-M12	22	3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
SS-VME-22M-M16	22	1	18.3	1-3/8	34.9	34.5	44.6	46.5	26.0
SS-VME-25M-M12	25	3/4	15.9	1-3/8	34.9	36.8	49.1	41.7	31.3
SS-VME-25M-M16	25	1	21.8	1-3/8	34.9	36.8	49.1	46.5	31.3
SS-VME-38M-M24	38	1-1/2	33.7	-	55.0	56.4	84.0	60.4	49.4

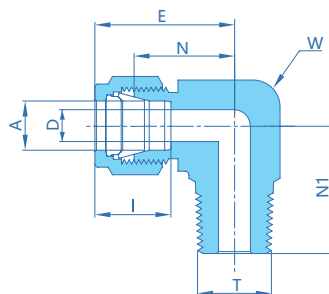
Tube Fitting VME Series

Male Elbow



TUBE (METRIC) TO NPT(M)															
Ordering Information	A Tube O.D.		T (NPT)		D		W Wrench Flat	N		E		N1		I	
	inch	mm	inch	mm	inch	mm	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VME-01-M1	1/16	1.58	1/16	.05	.05	.05	11.1	.60	15.24	.75	19.05	.70	17.78	.34	8.6
SS-VME-01-M2	1/16	1.58	1/8	.05	.05	.05	11.1	.60	15.24	.75	19.05	.70	17.78	.34	8.6
SS-VME-02-M1	1/8	3.17	1/16	.09	.09	.09	11.1	.67	17.02	.93	23.62	.70	17.78	.50	12.7
SS-VME-02-M2	1/8	3.17	1/8	.09	.09	.09	11.1	.67	17.02	.93	23.62	.70	17.78	.50	12.7
SS-VME-02-M4	1/8	3.17	1/4	.09	.09	.09	12.7	.71	18.03	.97	24.64	.92	23.37	.50	12.7
SS-VME-03-M2	3/16	4.76	1/8	.12	.12	.12	12.7	.74	18.80	1.00	25.40	.74	18.80	.54	13.7
SS-VME-03-M4	3/16	4.76	1/4	.12	.12	.12	12.7	.74	18.80	1.00	25.40	.92	23.37	.54	13.7
SS-VME-04-M1	1/4	6.35	1/16	.12	.12	.12	12.7	.77	19.56	1.06	26.92	.74	18.80	.60	15.2
SS-VME-04-M2	1/4	6.35	1/8	.19	.19	.19	12.7	.77	19.56	1.06	26.92	.74	18.80	.60	15.2
SS-VME-04-M4	1/4	6.35	1/4	.19	.19	.19	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
SS-VME-04-M6	1/4	6.35	3/8	.19	.19	.19	17.5	.88	22.35	1.17	29.71	1.03	26.16	.60	15.2
SS-VME-04-M8	1/4	6.35	1/2	.19	.19	.19	20.6	.96	24.38	1.25	31.75	1.30	33.02	.60	15.2
SS-VME-05-M2	5/16	7.93	1/8	.19	.19	.19	14.3	.84	21.34	1.13	28.70	.78	19.81	.64	16.2
SS-VME-05-M4	5/16	7.93	1/4	.25	.25	.25	14.3	.84	21.34	1.13	28.70	.96	24.38	.64	16.2
SS-VME-05-M6	5/16	7.93	3/8	.25	.25	.25	17.5	.91	23.11	1.20	30.48	1.03	26.16	.64	16.2
SS-VME-06-M2	3/8	9.52	1/8	.19	.19	.19	15.9	.91	23.11	1.20	30.48	.82	20.83	.66	16.8
SS-VME-06-M4	3/8	9.52	1/4	.28	.28	.28	15.9	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
SS-VME-06-M6	3/8	9.52	3/8	.28	.28	.28	17.5	.94	23.87	1.23	31.24	1.03	26.16	.66	16.8
SS-VME-06-M8	3/8	9.52	1/2	.28	.28	.28	20.6	1.02	25.90	1.31	33.28	1.30	33.02	.66	16.8
SS-VME-06-M12	3/8	9.52	3/4	.28	.28	.28	27.0	1.17	29.71	1.46	37.08	1.45	36.83	.66	16.8
SS-VME-08-M4	1/2	12.70	1/4	.28	.28	.28	20.6	1.02	25.90	1.42	36.07	1.11	28.19	.90	22.9
SS-VME-08-M6	1/2	12.70	3/8	.38	.38	.38	20.6	1.02	25.90	1.42	36.07	1.11	28.19	.90	22.9
SS-VME-08-M8	1/2	12.70	1/2	.41	.41	.41	20.6	1.02	25.90	1.42	36.07	1.30	33.02	.90	22.9
SS-VME-08-M12	1/2	12.70	3/4	.41	.41	.41	27.0	1.17	29.71	1.57	39.88	1.45	36.83	.90	22.9
SS-VME-10-M6	5/8	15.87	3/8	.38	.38	.38	23.8	1.10	27.94	1.50	38.10	1.19	30.23	.96	24.4
SS-VME-10-M8	5/8	15.87	1/2	.47	.47	.47	23.8	1.10	27.94	1.50	38.10	1.38	35.05	.96	24.4
SS-VME-10-M12	5/8	15.87	3/4	.50	.50	.50	27.0	1.17	29.71	1.57	39.88	1.45	36.83	.96	24.4
SS-VME-12-M8	3/4	19.05	1/2	.47	.47	.47	27.0	1.17	29.71	1.57	39.88	1.45	36.83	.96	24.4
SS-VME-12-M12	3/4	19.05	3/4	.62	.62	.62	27.0	1.17	29.71	1.57	39.88	1.45	36.83	.96	24.4
SS-VME-14-M12	7/8	22.22	3/4	.62	.62	.62	34.9	1.36	34.54	1.76	44.70	1.64	41.66	1.02	25.9
SS-VME-16-M12	1	25.40	3/4	.62	.62	.62	34.9	1.45	36.83	1.93	49.02	1.64	41.66	1.23	31.2
SS-VME-16-M16	1	25.40	1	.86	.86	.86	34.9	1.45	36.83	1.93	49.02	1.83	46.48	1.23	31.2
SS-VME-18-M18	1-1/4	31.75	1-1/4	1.09	1.09	1.09	42.9	1.75	44.45	2.62	66.50	1.88	47.75	1.62	41.2
SS-VME-24-M24	1-1/2	38.10	1-1/2	1.34	1.34	1.34	50.8	2.00	50.80	3.07	78.00	2.38	60.45	1.97	50.0
SS-VME-32-M32	2	50.80	2	1.81	1.81	1.81	69.9	2.75	69.85	4.22	107.19	2.78	70.61	2.66	67.6

Male Elbow

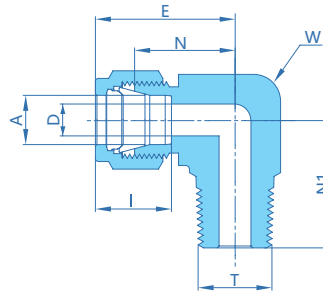


TUBE (METRIC) TO ISO TAPERED THREAD

Ordering Information	A Tube O.D.	T (ISO)	D	W Wrench Flat		N	E	N1	I
	mm	inch	mm	inch	mm	mm	mm	mm	mm
SS-VME-3M-R2	3	R-1/8	2.4	7/16	11.1	17.0	23.6	17.8	12.9
SS-VME-3M-R4	3	R-1/4	2.4	1/2	12.7	18.0	24.6	23.4	12.9
SS-VME-4M-R2	4	R-1/8	2.4	1/2	12.7	18.8	25.4	18.8	13.7
SS-VME-4M-R4	4	R-1/4	2.4	1/2	12.7	18.8	25.4	23.4	13.7
SS-VME-6M-R2	6	R-1/8	4.8	1/2	12.7	19.6	27.0	18.8	15.3
SS-VME-6M-R4	6	R-1/4	4.8	1/2	12.7	19.6	27.0	23.4	15.3
SS-VME-6M-R6	6	R-3/8	4.8	11/16	17.5	22.4	29.8	26.2	15.3
SS-VME-6M-R8	6	R-1/2	4.8	13/16	20.6	24.4	31.8	33.0	15.3
SS-VME-8M-R2	8	R-1/8	4.8	9/16	14.3	21.3	28.8	19.8	16.2
SS-VME-8M-R4	8	R-1/4	6.4	9/16	14.3	21.3	28.8	24.4	16.2
SS-VME-8M-R6	8	R-3/8	6.4	11/16	17.5	23.1	30.6	26.2	16.2
SS-VME-8M-R8	8	R-1/2	6.4	13/16	20.6	25.1	32.6	33.0	16.2
SS-VME-10M-R2	10	R-1/8	4.8	11/16	17.5	23.9	31.5	21.6	17.2
SS-VME-10M-R4	10	R-1/4	7.1	11/16	17.5	23.9	31.5	26.2	17.2
SS-VME-10M-R6	10	R-3/8	7.9	11/16	17.5	23.9	31.5	26.2	17.2
SS-VME-10M-R8	10	R-1/2	7.9	13/16	20.6	25.9	33.5	33.0	17.2
SS-VME-12M-R2	12	R-1/8	4.8	13/16	20.6	25.9	36.0	23.6	22.8
SS-VME-12M-R4	12	R-1/4	7.1	13/16	20.6	25.9	36.0	28.2	22.8
SS-VME-12M-R6	12	R-3/8	9.5	13/16	20.6	25.9	36.0	28.2	22.8
SS-VME-12M-R8	12	R-1/2	9.5	13/16	20.6	25.9	36.0	33.0	22.8
SS-VME-12M-R12	12	R-3/4	9.5	1-1/16	27.0	29.7	39.8	36.8	22.8
SS-VME-14M-R8	14	R-1/2	11.0	15/16	23.8	27.9	38.0	35.0	24.4
SS-VME-15M-R8	15	R-1/2	11.9	15/16	23.8	27.9	38.0	35.1	24.4
SS-VME-16M-R6	16	R-3/8	9.5	15/16	23.8	27.9	38.0	30.2	24.4
SS-VME-16M-R8	16	R-1/2	11.9	15/16	23.8	27.9	38.0	35.1	24.4
SS-VME-18M-R8	18	R-1/2	11.9	1-1/16	27.0	29.7	39.8	36.8	24.4
SS-VME-18M-R12	18	R-3/4	15.1	1-1/16	27.0	29.7	39.8	36.8	24.4
SS-VME-20M-R8	20	R-1/2	11.9	1-3/8	34.9	34.5	44.6	41.7	26.0
SS-VME-20M-R12	20	R-3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
SS-VME-22M-R12	22	R-3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
SS-VME-22M-R16	22	R-1	18.3	1-3/8	34.9	34.5	44.6	46.5	26.0
SS-VME-25M-R12	25	R-3/4	15.9	1-3/8	34.9	36.8	49.1	41.7	31.3
SS-VME-25M-R16	25	R-1	21.8	1-3/8	34.9	36.8	49.1	46.5	31.3

Tube Fitting VME Series

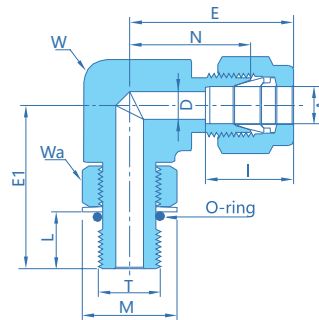
Male Elbow



TUBE (INCH) TO ISO TAPERED THREAD

Ordering Information	A Tube O.D.		T (ISO)	D		W Wrench Flat		N		E		N1		I	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VME-02-R2	1/8	3.17	R-1/8	.09	2.28	7/16	11.1	.67	17.02	.93	23.62	.70	17.78	.50	12.7
SS-VME-02-R4	1/8	3.17	R-1/4	.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.92	23.37	.50	12.7
SS-VME-04-R2	1/4	6.35	R-1/8	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.74	18.80	.60	15.2
SS-VME-04-R4	1/4	6.35	R-1/4	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
SS-VME-04-R6	1/4	6.35	R-3/8	.19	4.82	11/16	17.5	.88	22.35	1.17	29.71	1.03	26.16	.60	15.2
SS-VME-04-R8	1/4	6.35	R-1/2	.19	4.82	13/16	20.6	.96	24.38	1.25	31.75	1.30	33.02	.60	15.2
SS-VME-05-R4	5/16	7.93	R-1/4	.25	6.35	9/16	14.3	.84	21.34	1.13	28.70	.96	24.38	.64	16.2
SS-VME-06-R2	3/8	9.52	R-1/8	.19	4.82	5/8	15.9	.91	23.11	1.20	30.48	.82	20.83	.66	16.8
SS-VME-06-R4	3/8	9.52	R-1/4	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
SS-VME-06-R6	3/8	9.52	R-3/8	.28	7.11	11/16	17.5	.94	23.87	1.23	31.24	1.03	26.16	.66	16.8
SS-VME-08-R4	1/2	12.70	R-1/4	.28	7.11	13/16	20.6	1.02	25.90	1.42	36.07	1.11	28.19	.90	22.9
SS-VME-08-R6	1/2	12.70	R-3/8	.38	9.50	13/16	20.6	1.02	25.90	1.42	36.07	1.11	28.19	.90	22.9
SS-VME-08-R8	1/2	12.70	R-1/2	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	1.30	33.02	.90	22.9
SS-VME-12-R8	3/4	19.05	R-1/2	.47	11.94	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	.96	24.4
SS-VME-16-R16	1	25.40	R-1	.86	21.84	1-3/8	34.9	1.45	36.83	1.93	49.02	1.83	46.48	1.23	31.2

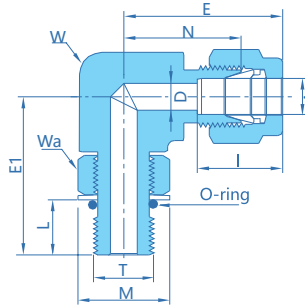
Male Elbow POS



TUBE (INCH) TO SAE / MS STRAIGHT THREAD BOSS (POSITIONABLE)

Ordering Information	A Tube O.D.		T SAE / MS	D		W Wrench Flat		Wa Hex Flat	N		E		E1		L		M		I	
	inch	mm		inch	mm	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VME-04-A4	1/4	6.35	7/16-20	.19	4.8	1/2	12.7	9/16	.83	21.10	1.12	28.45	1.12	28.45	.39	9.9	.65	16.5	.60	15.2
SS-VME-04-A6	1/4	6.35	9/16-18	.19	4.8	5/8	15.9	11/16	.91	23.11	1.20	30.48	1.27	32.26	.44	11.2	.79	20.1	.60	15.2
SS-VME-06-A4	3/8	9.52	7/16-20	.20	5.1	5/8	15.9	9/16	.97	24.64	1.26	32.00	1.12	28.45	.39	9.9	.65	16.5	.66	16.8
SS-VME-06-A6	3/8	9.52	9/16-18	.28	7.1	5/8	15.9	11/16	.97	24.64	1.26	32.00	1.27	32.26	.44	11.2	.79	20.1	.66	16.8
SS-VME-06-A8	3/8	9.52	3/4-16	.28	7.1	13/16	20.6	7/8	1.08	27.43	1.37	34.80	1.49	37.85	.50	12.7	1.01	25.7	.66	16.8
SS-VME-08-A6	1/2	12.70	9/16-18	.28	7.1	13/16	20.6	11/16	1.08	27.43	1.48	37.59	1.38	35.05	.44	11.2	.79	20.1	.90	22.9
SS-VME-08-A8	1/2	12.70	3/4-16	.41	10.4	13/16	20.6	7/8	1.08	27.43	1.48	37.59	1.49	37.85	.50	12.7	1.01	25.7	.90	22.9
SS-VME-12-A12	3/4	19.05	1-1/16-12	.62	15.8	1-1/16	27.0	1-1/4	1.23	31.24	1.63	41.40	1.92	48.77	.66	16.8	1.44	36.7	.96	24.4
SS-VME-16-A12	1	25.40	1-1/16-12	.62	15.8	1-3/8	34.9	1-1/4	1.51	38.35	1.99	50.55	2.05	52.07	.66	16.8	1.44	36.7	1.23	31.2
SS-VME-16-A16	1	25.40	1-5/16-12	.88	22.3	1-3/8	34.9	1-1/2	1.51	38.35	1.99	50.55	2.11	53.59	.66	16.8	1.73	44.0	1.23	31.2

Male Elbow



TUBE (METRIC) TO ISO PARALLEL THREAD (POSITIONABLE)

Ordering Information	A Tube O.D.		T (ISO)		D		W Wrench Flat		Wa Hex Flat		N		E		E1		L		M		I		O-ring
	mm	inch	inch	mm	mm	inch	mm	inch	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	.Dash No
SS-VME-6M-G2	6		G-1/8-28		4.0	1/2	12.7	9/16			19.6	27.0	26.4		8.1	17.3	15.3						***
SS-VME-6M-G4	6		G-1/4-19		4.8	5/8	15.9	3/4			21.6	29.0	32.2		9.1	22.9	15.3						-111
SS-VME-8M-G2	8		G-1/8-28		4.0	5/8	15.9	9/16			21.3	28.8	27.4		8.1	17.3	16.2						***
SS-VME-8M-G4	8		G-1/4-19		5.9	5/8	15.9	3/4			22.4	29.9	32.2		9.1	22.9	16.2						-111
SS-VME-10M-G4	10		G-1/4-19		5.9	13/16	20.6	3/4			25.9	33.5	33.5		9.1	22.9	17.2						-111
SS-VME-10M-G6	10		G-3/8-19		7.9	13/16	20.6	7/8			25.9	33.5	37.1		9.4	26.4	17.2						-113
SS-VME-12M-G4	12		G-1/4-19		5.9	13/16	20.6	3/4			25.9	36.0	35.0		9.1	22.9	22.8						-111
SS-VME-12M-G6	12		G-3/8-19		7.9	13/16	20.6	7/8			25.9	36.0	37.1		9.4	26.4	22.8						-113
SS-VME-12M-G8	12		G-1/2-14		9.5	15/16	23.8	1-1/16			27.9	38.0	43.4		13.0	32.0	22.8						-593

TUBE (INCH) TO ISO PARALLEL THREAD (POSITIONABLE)

Ordering Information	A Tube O.D.		T (ISO)		D		W Wrench Flat		Wa Hex Flat		N		E		E1		L		M		I		O-ring
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	.Dash No
SS-VME-04-G2	1/4	6.35	G-1/8-28	.16	4.0	1/2	12.7	9/16	.77	19.60	1.06	26.9	1.04	26.4	.32	8.1	.68	17.3	.60	15.2			***
SS-VME-04-G4	1/4	6.35	G-1/4-19	.19	4.8	5/8	15.9	3/4	.85	21.60	1.14	28.9	1.27	32.2	.36	9.1	.90	22.9	.60	15.2			-111
SS-VME-04-G8	1/4	6.35	G-1/2-14	.19	4.8	15/16	23.8	1-1/16	.96	24.38	1.25	31.8	1.71	43.4	.51	13.0	1.26	32.0	.60	15.2			-593
SS-VME-06-G4	3/8	9.52	G-1/4-19	.23	5.9	5/8	15.9	3/4	.91	23.11	1.20	30.5	1.27	32.2	.36	9.1	.90	22.9	.66	16.8			-111
SS-VME-06-G6	3/8	9.52	G-3/8-19	.28	7.1	13/16	20.6	7/8	1.02	25.91	1.31	33.3	1.46	37.1	.37	9.4	1.04	26.4	.66	16.8			-113
SS-VME-08-G4	1/2	12.70	G-1/4-19	.23	5.9	13/16	20.6	3/4	1.02	25.91	1.42	36.1	1.27	32.2	.36	9.1	.90	22.9	.90	22.9			-111
SS-VME-08-G6	1/2	12.70	G-3/8-19	.31	7.9	13/16	20.6	7/6	1.02	25.91	1.42	36.1	1.46	37.1	.37	9.4	1.04	26.4	.90	22.9			-113
SS-VME-08-G8	1/2	12.70	G-1/2-14	.41	10.4	15/16	23.8	1-1/16	1.10	27.94	1.50	38.1	1.71	43.4	.51	13.0	1.26	32.0	.90	22.9			-593
SS-VME-10-G8	5/8	15.87	G-1/2-14	.47	11.9	15/16	23.8	1-1/16	1.10	27.94	1.50	38.1	1.71	43.4	.51	13.0	1.26	32.0	.96	24.4			-593

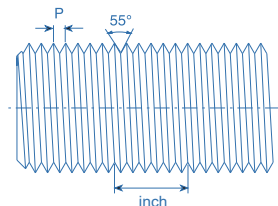
* When ordering code SS-VME-**-AG**, "AG" stands for combined gaskets.

Reference Specifications:

- DIN - ISO 228/1
- BS - 2779
- JIS - B2022
- ISO - 228/1 - BSP - P
- 55° Thread angle
- Pitch measured in inches
- Truncation of root and crest is round
- Diameter measured in inches

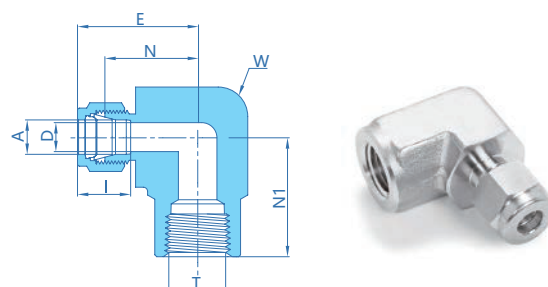
Designation:

Marking LG on Hex.



Tube Fitting VFE Series

Female Elbow



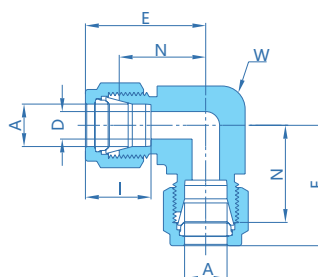
TUBE (METRIC) TO NPT(F)

Ordering Information	A Tube O.D.		T (NPT)	D		W Wrench Flat		N		E		N1		I	
	mm	inch		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
SS-VFE-6M-F2	6	1/8		4.8	1/2	12.7		19.6		27.0		19.0		15.3	
SS-VFE-6M-F4	6	1/4		4.8	11/16	17.5		22.4		29.8		22.4		15.3	
SS-VFE-6M-F8	6	1/2		4.8	1-1/16	27.0		27.2		34.6		28.4		15.3	
SS-VFE-8M-F4	8	1/4		6.4	11/16	17.5		23.1		30.6		22.4		16.2	
SS-VFE-10M-F2	10	1/8		7.9	11/16	17.5		23.9		31.5		19.0		17.2	
SS-VFE-10M-F4	10	1/4		7.9	13/16	20.6		25.9		33.5		22.4		17.2	
SS-VFE-12M-F4	12	1/4		9.5	13/16	20.6		25.9		36.0		22.4		22.8	
SS-VFE-12M-F8	12	1/2		9.5	1-1/16	27.0		28.7		38.8		28.4		22.8	
SS-VFE-16M-F8	16	1/2		12.7	1-1/16	27.0		29.7		39.8		28.4		24.4	

TUBE (INCH) TO NPT(F)

Ordering Information	A Tube O.D.		T (NPT)	D		W Wrench Flat		N		E		N1		I	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VFE--02-F2	1/8	3.17	1/8	.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.75	19.05	.50	12.7
SS-VFE--02-F4	1/8	3.17	1/4	.09	2.28	11/16	17.5	.82	20.80	1.08	27.43	.88	22.40	.50	12.7
SS-VFE-03-F2	3/16	4.76	1/8	.12	3.04	1/2	12.7	.74	18.80	1.00	25.40	.75	19.05	.54	13.7
SS-VFE-04-F2	1/4	6.35	1/8	.19	4.82	1/2	12.7	.77	19.55	1.06	26.92	.75	19.05	.60	15.2
SS-VFE-04-F4	1/4	6.35	1/4	.19	4.82	11/16	17.5	.88	22.40	1.17	29.72	.88	22.40	.60	15.2
SS-VFE-04-F6	1/4	6.35	3/8	.19	4.82	15/16	23.8	.96	24.38	1.25	31.75	.88	22.40	.60	15.2
SS-VFE-04-F8	1/4	6.35	1/2	.19	4.82	1-1/16	27.0	1.07	27.18	1.36	34.54	1.12	28.45	.60	15.2
SS-VFE-05-F2	5/16	7.93	1/8	.25	6.35	9/16	14.3	.84	21.30	1.13	28.70	.75	19.05	.64	16.2
SS-VFE-05-F4	5/16	7.93	1/4	.25	6.35	11/16	17.5	.91	23.11	1.20	30.48	.88	22.40	.64	16.2
SS-VFE-06-F2	3/8	9.52	1/8	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	.75	19.05	.66	16.8
SS-VFE-06-F4	3/8	9.52	1/4	.28	7.11	11/16	17.5	0.94	23.87	1.23	31.24	.88	22.40	.66	16.8
SS-VFE-06-F6	3/8	9.52	3/8	.28	7.11	15/16	23.8	1.02	25.90	1.31	33.27	.88	22.40	.66	16.8
SS-VFE-06-F8	3/8	9.52	1/2	.28	7.11	1-1/16	27.0	1.13	28.70	1.42	36.07	1.12	28.45	.66	16.8
SS-VFE-08-F4	1/2	12.70	1/4	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	.88	22.40	.90	22.9
SS-VFE-08-F6	1/2	12.70	3/8	.41	10.41	15/16	23.8	1.02	25.90	1.42	36.07	.88	22.40	.90	22.9
SS-VFE-08-F8	1/2	12.70	1/2	.41	10.41	1-1/16	27.0	1.13	28.70	1.53	36.86	1.12	28.45	.90	22.9
SS-VFE-10-F6	5/8	15.87	3/8	.50	12.70	15/16	23.8	1.10	27.90	1.50	38.10	.88	22.40	.96	24.4
SS-VFE-10-F8	5/8	15.87	1/2	.50	12.70	1-1/16	27.0	1.17	29.70	1.57	39.86	1.12	28.45	.96	24.4
SS-VFE-12-F8	3/4	19.05	1/2	.62	15.74	1-1/16	27.0	1.17	29.70	1.57	39.86	1.12	28.45	.96	24.4
SS-VFE-12-F12	3/4	19.05	3/4	.62	15.74	1-3/8	34.9	1.36	34.54	1.76	44.70	1.25	31.75	.96	24.4
SS-VFE-14-F12	7/8	22.22	3/4	.72	18.28	1-3/8	34.9	1.36	34.54	1.76	44.70	1.25	31.75	1.02	25.9
SS-VFE-16-F12	1	25.40	3/4	.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.02	1.25	31.75	1.23	31.2
SS-VFE-16-F16	1	25.40	1	.88	22.35	1-11/16	42.9	1.63	41.40	2.11	53.59	1.50	38.10	1.23	31.2

Union Elbow



TUBE (METRIC) TO TUBE (METRIC)

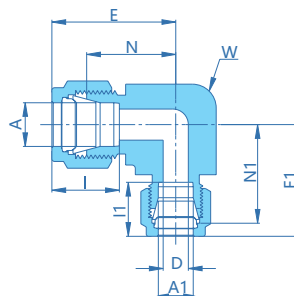
Ordering Information	A Tube O.D.		D		W Wrench Flat		N		E		I	
	mm		mm		inch	mm	mm		mm		mm	
SS-VUE-3M	3		2.4		3/8	9.5	15.7		22.3		12.9	
SS-VUE-4M	4		2.4		1/2	12.7	18.8		25.4		13.7	
SS-VUE-6M	6		4.8		1/2	12.7	19.6		27.0		15.3	
SS-VUE-8M	8		6.4		9/16	14.3	21.3		28.8		16.2	
SS-VUE-10M	10		7.9		11/16	17.5	23.9		31.5		17.2	
SS-VUE-12M	12		9.5		13/16	20.6	25.9		36.0		22.8	
SS-VUE-14M	14		11.1		15/16	23.8	27.9		38.0		24.4	
SS-VUE-15M	15		11.9		15/16	23.8	27.9		38.0		24.4	
SS-VUE-16M	16		12.7		15/16	23.8	27.9		38.0		24.4	
SS-VUE-18M	18		15.1		1-1/6	27.0	29.7		39.8		24.4	
SS-VUE-20M	20		15.9		1-3/8	34.9	34.5		44.6		26.0	
SS-VUE-22M	22		18.3		1-3/8	34.9	34.5		44.6		26.0	
SS-VUE-25M	25		21.8		1-3/8	34.9	36.8		49.1		31.3	
SS-VUE-38M	38		33.7		-	55.0	56.4		84.0		49.4	
SS-VUE-50M	50		45.2		2-3/4	69.9	68.9		106.0		65.0	

TUBE (INCH) TO TUBE (INCH)

Ordering Information	A Tube O.D.		D		W Wrench Flat		N		E		I	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VUE-01	1/16	1.58	.05	1.27	3/8	9.5	.55	14.00	.70	17.80	.34	8.6
SS-VUE-02	1/8	3.17	.09	2.28	3/8	9.5	.62	15.74	.88	22.35	.50	12.7
SS-VUE-03	3/16	4.76	.12	3.04	1/2	12.7	.70	17.80	.96	24.40	.54	13.7
SS-VUE-04	1/4	6.35	.19	4.82	1/2	12.7	.77	19.55	1.06	26.90	.60	15.2
SS-VUE-05	5/16	7.93	.25	6.35	5/8	15.9	.88	22.35	1.17	29.71	.64	16.2
SS-VUE-06	3/8	9.52	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	.66	16.8
SS-VUE-08	1/2	12.70	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.06	.90	22.9
SS-VUE-10	5/8	15.87	.50	12.70	15/16	23.8	1.13	28.70	1.53	38.90	.96	24.4
SS-VUE-12	3/4	19.05	.62	15.75	1-1/16	27.0	1.17	29.70	1.57	39.90	.96	24.4
SS-VUE-14	7/8	22.22	.72	18.28	1-3/8	34.9	1.36	34.54	1.76	44.70	1.02	25.9
SS-VUE-16	1	25.40	.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.00	1.23	31.2
SS-VUE-18	1-1/4	31.75	1.09	27.70	1-11/16	42.9	1.75	44.50	2.62	66.55	1.62	41.2
SS-VUE-24	1-1/2	38.10	1.34	34.00	2	50.8	2.00	50.80	3.07	77.98	1.97	50.0
SS-VUE-32	2	50.80	1.81	45.97	2-3/4	69.9	2.75	69.85	4.22	107.19	2.66	67.6

Tube Fitting VRUE Series

Reducing Union Elbow



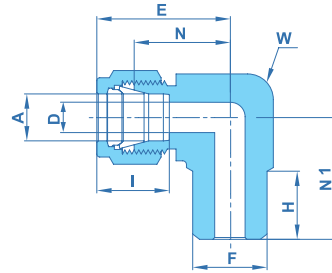
TUBE (METRIC) TO TUBE (INCH)

Ordering Information	A Tube O.D.		A1 Tube O.D.		E		E1		I		I1		D		W Wrench Flat		N		N1	
	mm	inch	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	in.	mm	mm	mm	mm	mm
SS-VRUE-6M-04	6	1/4	27.0	26.9	15.3	15.2	4.8	1/2	12.7	19.6	19.6									
SS-VRUE-8M-04	8	1/4	28.8	28.7	16.2	15.2	4.8	9/16	14.3	21.3	21.3									

TUBE (INCH) TO TUBE (INCH)

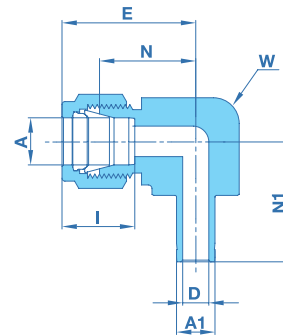
Ordering Information	A Tube O.D.		A1 Tube O.D.		E		E1		I		I1		D		W Wrench Flat		N		N1	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VRUE-06-04	3/8	9.52	1/4	6.35	1.20	30.48	1.20	30.48	.66	16.8	.60	15.2	.19	4.82	5/8	15.9	.91	23.11	.91	23.11
SS-VRUE-10-06	5/8	15.87	3/8	9.52	1.50	38.10	1.39	35.31	.96	24.4	.66	16.8	.28	7.11	15/16	23.8	1.10	27.94	1.10	27.94

Male Pipe Weld Elbow



TUBE (INCH)																		
Ordering Information	A Tube O.D.		F Tube O.D.		D		W Wrench Flat		N		H		E		N1		I	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VWE-04-TW02	1/4	6.35	1/8	10.30	.19	4.82	1/2	12.7	.77	19.56	.38	9.65	1.06	26.92	.74	18.8	.60	15.2
SS-VWE-04-TW04	1/4	6.35	1/4	13.70	.19	4.82	1/2	12.7	.77	19.56	.56	14.22	1.06	26.92	.92	23.37	.60	15.2
SS-VWE-06-TW04	3/8	9.52	1/4	13.70	.28	7.11	5/8	15.9	.91	23.11	.56	14.22	1.20	30.48	1.00	25.40	.66	16.8
SS-VWE-08-TW08	1/2	12.70	1/2	21.34	.41	10.41	13/16	20.6	1.02	25.90	.75	19.05	1.42	36.06	1.30	33.02	.90	22.9
SS-VWE-12-TW12	3/4	19.05	3/4	26.67	.62	15.75	1-1/16	27.0	1.17	29.72	.75	19.05	1.57	39.88	1.45	36.83	.96	24.4

Reducing Elbow

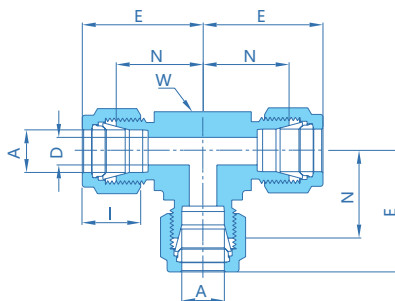


TUBE (METRIC) TO STUB (METRIC)									
Ordering Information	A Tube O.D.	A1 Tube O.D.	D	W Wrench Flat		N	E	N1	I
	mm	mm	mm	inch	mm	mm	mm	mm	mm
SS-VRE-6M-TB6M	6	6	4.0	1/2	12.7	19.6	27.0	23.8	15.3
SS-VRE-12M-TB12M	12	12	8.8	1-1/8	28.6	27.9	38.0	40.4	22.8
SS-VRE-15M-TB15M	15	15	12.0	1-1/8	28.6	27.9	38.0	41.0	24.4
SS-VRE-22M-TB22M	22	22	18.3	1-3/8	34.9	34.5	44.6	50.0	26.0

TUBE (INCH) TO STUB (INCH)																
Ordering Information	A Tube O.D.		A1 Tube O.D.		D		W Wrench Flat		N		E		N1		I	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VRE-04-TB06	1/4	6.35	3/8	9.52	.19	4.82	5/8	15.9	.91	23.1	1.20	30.5	1.24	31.5	.60	15.2
SS-VRE-04-TB08	1/4	6.35	1/2	12.7	.19	4.82	5/8	15.9	.91	23.1	1.20	30.5	1.28	32.5	.60	15.2

Tube Fitting VUT Series

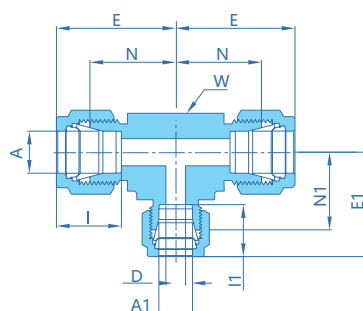
Union Tee



TUBE (METRIC)							
Ordering Information	A Tube O.D.		D Tube O.D.		W Wrench Flat		I
	mm	mm	mm	mm	mm	mm	
SS-VUT-2M	2	1.7	3/8	9.5	15.7	22.3	12.9
SS-VUT-3M	3	2.4	3/8	9.5	15.7	22.3	12.9
SS-VUT-4M	4	2.4	1/2	12.7	18.8	25.4	13.7
SS-VUT-6M	6	4.8	1/2	12.7	19.6	27.0	15.3
SS-VUT-8M	8	6.4	5/8	15.9	22.4	29.9	16.2
SS-VUT-10M	10	7.9	11/16	17.5	23.9	31.5	17.2
SS-VUT-12M	12	9.5	13/16	20.6	25.9	36.0	22.8
SS-VUT-14M	14	11.1	15/16	23.8	28.7	38.8	24.4
SS-VUT-15M	15	11.9	15/16	23.8	28.7	38.8	24.4
SS-VUT-16M	16	12.7	15/16	23.8	28.7	38.8	24.4
SS-VUT-18M	18	15.1	1-1/6	34.9	29.7	39.8	24.4
SS-VUT-20M	20	15.9	1-3/8	27.0	34.5	44.6	26.0
SS-VUT-22M	22	18.3	1-3/8	34.9	34.5	44.6	26.0
SS-VUT-25M	32	21.8	1-3/8	34.9	36.8	49.0	31.3
SS-VUT-38M	38	33.7	-	55.0	56.4	84.0	49.4
SS-VUT-50M	50	45.2	2-3/4	69.9	68.9	106.0	65.0

TUBE (INCH)												
Ordering Information	A Tube O.D.		D Tube O.D.		W Wrench Flat		N		E		I	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VUT-01	1/16	1.58	.05	1.27	3/8	9.5	.55	14.00	.70	17.80	.34	8.6
SS-VUT-02	1/8	3.17	.09	2.28	3/8	9.5	.62	15.74	.88	22.35	.50	12.7
SS-VUT-03	3/16	4.76	.12	3.04	1/2	12.7	.70	17.80	.96	24.40	.54	13.7
SS-VUT-04	1/4	6.35	.19	4.82	1/2	12.7	.77	19.55	1.06	26.90	.60	15.2
SS-VUT-05	5/16	7.93	.25	6.35	5/8	15.9	.88	22.35	1.17	29.71	.64	16.2
SS-VUT-06	3/8	9.52	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	.66	16.8
SS-VUT-08	1/2	12.70	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.06	.90	22.9
SS-VUT-10	5/8	15.87	.50	12.70	15/16	23.8	1.13	28.70	1.53	38.90	.96	24.4
SS-VUT-12	3/4	19.05	.62	15.75	1-1/16	27.0	1.17	29.70	1.57	39.90	.96	24.4
SS-VUT-14	7/8	22.22	.72	18.28	1-3/8	34.9	1.36	34.54	1.76	44.70	1.02	25.9
SS-VUT-16	1	25.40	.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.00	1.23	31.2
SS-VUT-18	1-1/4	31.75	1.09	27.70	1-11/16	42.9	1.75	44.50	2.62	67.80	1.62	41.2
SS-VUT-24	1-1/2	38.10	1.34	34.00	2	50.8	2.00	50.80	3.07	78.70	1.97	50.0
SS-VUT-32	2	50.80	1.81	45.97	2-3/4	69.9	2.75	69.85	4.22	107.19	2.66	67.6

Reducing Tee



TUBE (METRIC)

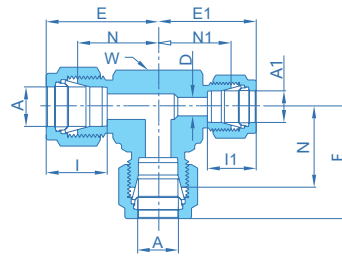
Ordering Information	A Tube O.D.		A1 Tube O.D.		E		E1		I		I1		D		W Wrench Flat		N		N1	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	inch	mm	mm	mm	mm	mm
SS-VRT-8M-T6M	8	6	29.5	29.0	16.2	15.3	4.8	5/8	15.9	22.4	22.4	22.4	22.4	22.4	11/16	17.5	23.9	23.9	23.9	23.9
SS-VRT-10M-T6M	10	6	31.5	29.7	17.2	15.3	4.8	13/16	20.6	25.9	24.4	24.4	24.4	24.4	13/16	20.6	25.9	25.9	25.9	25.9
SS-VRT-12M-T6M	12	6	36.0	33.5	22.8	17.2	7.9	13/16	20.6	25.9	25.9	25.9	25.9	25.9	13/16	20.6	25.9	25.9	25.9	25.9
SS-VRT-12M-T10M	12	10	36.0	33.5	22.8	17.2	7.9	13/16	20.6	25.9	25.9	25.9	25.9	25.9	13/16	20.6	25.9	25.9	25.9	25.9
SS-VRT-14M-T10M	14	10	38.8	36.3	24.4	17.2	7.9	15/16	23.8	28.7	28.7	28.7	28.7	28.7	15/16	23.8	28.7	28.7	28.7	28.7
SS-VRT-18M-T12M	18	12	39.8	39.8	24.4	22.8	9.5	1-1/16	27.0	29.7	29.7	29.7	29.7	29.7	1-1/16	27.0	29.7	29.7	29.7	29.7
SS-VRT-50M-T38M	50	38	106.0	96.2	65.0	49.4	33.7	2-3/4	69.9	68.9	68.6	68.6	68.6	68.6	2-3/4	69.9	68.9	68.9	68.6	68.6

TUBE (INCH)

Ordering Information	A Tube O.D.		A1 Tube O.D.		E		E1		I		I1		D		W Wrench Flat		N		N1	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VRT-04-T02	1/4	6.35	1/8	3.17	1.06	26.9	1.03	26.2	.60	15.2	.50	12.7	.09	2.28	1/2	12.7	.77	19.6	.77	19.6
SS-VRT-06-T04	3/8	9.52	1/4	6.35	1.20	30.5	1.14	29.0	.66	16.8	.60	15.2	.19	4.82	5/8	15.9	.91	23.1	.85	21.6
SS-VRT-08-T04	1/2	12.70	1/4	6.35	1.42	36.1	1.25	31.8	.90	22.9	.60	15.2	.19	4.82	13/16	20.6	1.02	25.9	.96	24.4
SS-VRT-08-T06	1/2	12.70	3/8	9.52	1.42	36.1	1.31	33.3	.90	22.9	.66	16.8	.28	7.11	13/16	20.6	1.02	25.9	1.02	25.9
SS-VRT-10-T06	5/8	15.88	3/8	9.52	1.53	38.9	1.42	36.1	.96	24.4	.66	16.8	.28	7.11	15/16	23.8	1.13	28.7	1.13	28.7
SS-VRT-12-T04	3/4	19.05	1/4	6.35	1.57	39.9	1.46	37.1	.96	24.4	.60	15.2	.19	4.82	1-1/16	27.0	1.17	29.7	1.17	29.7
SS-VRT-12-T06	3/4	19.05	3/8	9.52	1.57	39.9	1.46	37.1	.96	24.4	.66	16.8	.28	7.11	1-1/16	27.0	1.17	29.7	1.17	29.7
SS-VRT-12-T08	3/4	19.05	1/2	12.70	1.57	39.9	1.57	39.9	.96	24.4	.90	22.9	.41	10.41	1-1/16	27.0	1.17	29.7	1.17	29.7
SS-VRT-16-T06	1	25.4	3/8	9.52	1.93	49.0	1.65	41.9	1.23	31.2	.66	16.8	.28	7.11	1-3/8	34.9	1.45	36.8	1.36	34.5
SS-VRT-16-T08	1	25.4	1/2	12.70	1.93	49.0	1.76	44.7	1.23	31.2	.90	22.9	.41	10.41	1-3/8	34.9	1.45	36.8	1.36	34.5
SS-VRT-16-T12	1	25.4	3/4	19.05	1.93	49.0	1.76	44.7	1.23	31.2	0.96	24.4	.62	15.75	1-3/8	34.9	1.45	36.8	1.36	34.5
SS-VRT-18-T16	1-1/4	31.75	1	25.40	2.67	67.8	2.17	55.1	1.62	41.2	1.23	31.2	.88	22.35	1-11/16	42.9	1.75	44.5	1.69	42.9
SS-VRT-24-T16	1-1/2	38.10	1	25.40	3.10	78.7	2.36	59.9	1.97	50.0	1.23	31.2	.88	22.35	2	50.8	2.00	50.8	1.88	47.8

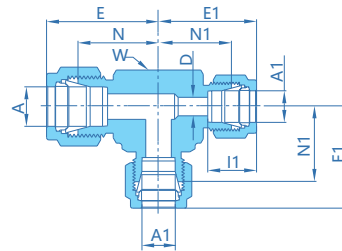
Tube Fitting VRT Series

Reducing Tee



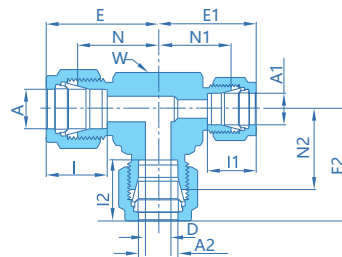
TUBE (INCH)																				
Ordering Information	A Tube O.D.		A1 Tube O.D.		E		E1		I		I1		D		W Wrench Flat		N		N1	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VRT-04-02-T04	1/4	6.35	1/8	3.17	1.06	26.9	1.03	26.2	.60	15.2	.50	12.7	.09	2.28	1/2	12.7	.77	19.6	.77	19.6
SS-VRT-06-04-T06	3/8	9.52	1/4	6.35	1.20	30.5	1.14	29.0	.66	16.8	.60	15.2	.19	4.82	5/8	15.9	.91	23.1	.85	21.6
SS-VRT-08-04-T08	1/2	12.70	1/4	6.35	1.42	36.1	1.31	33.3	.90	22.9	.60	15.2	.19	4.82	13/16	20.6	1.02	25.9	1.02	25.9
SS-VRT-08-06-T08	1/2	12.70	3/8	9.52	1.42	36.1	1.31	33.3	.90	22.9	.66	16.8	.28	7.11	13/16	20.6	1.02	25.9	1.02	25.9
SS-VRT-12-06-T12	3/4	19.05	3/8	9.52	1.57	39.9	1.46	37.1	.96	24.4	.66	16.8	.28	7.11	1-1/6	27.0	1.17	29.7	1.17	29.7

Reducing Tee



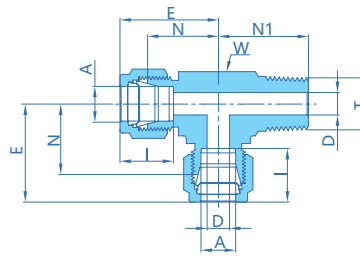
TUBE (INCH)																				
Ordering Information	A Tube O.D.		A1 Tube O.D.		E		E1		I		I1		D		W Wrench Flat		N		N1	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VRT-08-T06	1/2	12.70	3/8	9.52	1.42	36.1	1.31	33.3	.90	22.9	.66	16.8	.28	7.1	13/16	20.6	1.02	25.9	1.02	25.9
SS-VRT-10-T06	5/8	15.87	3/8	9.52	1.53	38.9	1.42	36.1	.96	24.4	.66	16.8	.28	7.1	15/16	23.8	1.13	28.7	1.13	28.7
SS-VRT-12-T06	3/4	19.05	3/8	9.52	1.57	39.9	1.46	37.1	.96	24.4	.66	16.8	.28	7.1	1-1/16	27.0	1.17	29.7	1.17	29.7

Reducing Tee



TUBE (INCH)																										
Ordering Information	A Tube O.D.		A1 Tube O.D.		A2 Tube O.D.		E		E1		E2		I		I1		I2		D		W Wrench Flat		N		N1&N2	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VRT-10-08-T06	5/8	15.87	1/2	12.70	3/8	9.52	1.53	38.9	1.53	38.9	1.42	36.1	.96	24.4	.90	22.9	.66	16.8	.28	7.11	15/16	23.8	1.13	28.7	1.13	28.7
SS-VRT-12-08-T06	3/4	19.05	1/2	12.70	3/8	9.52	1.57	39.9	1.57	39.9	1.46	37.1	.96	24.4	.90	22.9	.66	16.8	.28	7.11	1-1/16	27.0	1.17	29.7	1.17	29.7
SS-VRT-16-12-T06	1	25.40	3/4	19.05	3/8	9.52	1.93	49.0	1.76	44.7	1.65	41.9	1.23	31.2	.96	24.4	.66	16.8	.28	7.11	1-3/8	34.9	1.45	36.8	1.36	34.5

Male Run Tee



TUBE (METRIC)

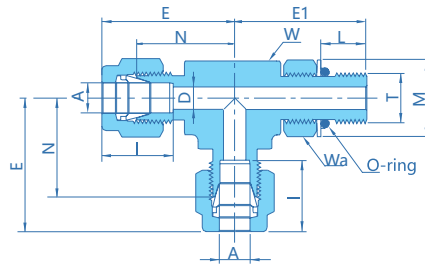
Ordering Information	A Tube O.D.		T (NPT)		D		W Wrench Flat		N		E		N1		I	
	mm		inch		mm		inch	mm	mm		mm		mm		mm	
SS-VMRT-6M-M2	6		1/8		4.8		1/2	12.7	19.6		27.0		18.8		15.3	
SS-VMRT-6M-M4	6		1/4		4.8		1/2	12.7	19.6		27.0		23.4		15.3	
SS-VMRT-8M-M2	8		1/8		4.8		5/8	15.9	22.4		29.9		20.8		16.2	
SS-VMRT-8M-M4	8		1/4		6.4		5/8	15.9	22.4		29.9		25.4		16.2	
SS-VMRT-10M-M4	10		1/4		7.1		13/16	20.6	25.9		33.5		28.2		17.2	
SS-VMRT-12M-M4	12		1/4		7.1		13/16	20.6	25.9		36.0		28.2		22.8	
SS-VMRT-12M-M6	12		3/8		9.5		13/16	20.6	25.9		36.0		28.2		22.8	
SS-VMRT-12M-M8	12		1/2		9.5		13/16	20.6	25.9		36.0		33.0		22.8	
SS-VMRT-16M-M8	16		1/2		11.9		15/16	23.8	27.9		38.0		35.0		24.4	

TUBE (INCH)

Ordering Information	A Tube O.D.		T (NPT)		D		W Wrench Flat		N		E		N1		I	
	inch	mm	inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VMRT-02-M2	1/8	3.17	1/8		.09	2.28	7/16	11.1	.67	17.02	.93	23.62	.70	17.78	.50	12.7
SS-VMRT-02-M4	1/8	3.17	1/4		.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.92	23.40	.50	12.7
SS-VMRT-03-M2	3/16	4.76	1/8		.12	3.05	7/16	11.1	.70	17.78	.96	24.38	.70	17.78	.54	13.7
SS-VMRT-04-M2	1/4	6.35	1/8		.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.74	18.8	.60	15.2
SS-VMRT-04-M4	1/4	6.35	1/4		.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
SS-VMRT-05-M2	5/16	7.93	1/8		.19	4.82	5/8	15.9	.88	22.35	1.17	29.71	.82	20.83	.64	16.2
SS-VMRT-06-M4	3/8	9.52	1/4		.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
SS-VMRT-06-M6	3/8	9.52	3/8		.28	7.11	13/16	20.6	1.02	25.91	1.31	33.27	1.11	28.19	.66	16.8
SS-VMRT-08-M6	1/2	12.70	3/8		.38	9.5	13/16	20.6	1.02	25.91	1.42	36.07	1.11	28.19	.90	22.9
SS-VMRT-08-M8	1/2	12.70	1/2		.41	10.41	13/16	20.6	1.02	25.91	1.42	36.07	1.30	33.00	.90	22.9
SS-VMRT-10-M8	5/8	15.87	1/2		.47	11.94	15/16	23.8	1.10	27.94	1.50	38.1	1.38	35.05	.96	24.4
SS-VMRT-12-M12	3/4	19.05	3/4		.62	15.75	1-1/16	27.0	1.17	29.72	1.57	39.88	1.45	36.83	.96	24.4

Tube Fitting VMRT Series

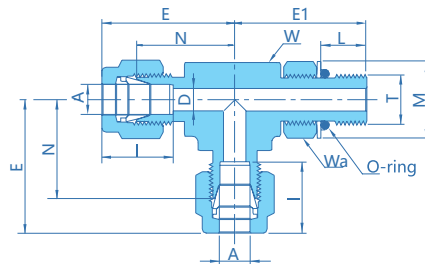
Male Run Tee POS



TUBE (INCH) TO SAE / MS STRAIGHT THREAD BOSS (POSITIONABLE)

Ordering Information	A Tube O.D.		T (SAE/MS)		D		W Wrench Flat		Wa Hex. Flat		N		E		E1		L		M		I	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VMRT-04-A4	1/4	6.35	7/16-20	.19	4.8	1/2	12.7	9/16	.83	21.10	1.12	28.45	1.12	28.45	.39	9.9	.65	16.5	.60	15.2		
SS-VMRT-06-A6	3/8	9.52	9/16-18	.28	7.1	5/8	15.9	11/16	.97	24.64	1.26	32.00	1.27	32.26	.44	11.2	.79	20.1	.66	16.8		

Male Run Tee POS



TUBE (METRIC) TO ISO PARALLEL THREAD (POSITIONABLE)

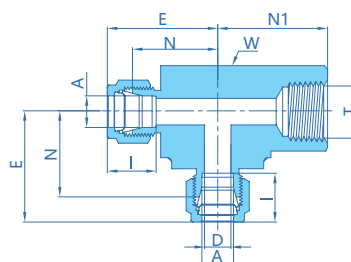
Ordering Information	A Tube O.D.		T (ISO)		D		W Wrench Flat		Wa Hex. Flat		N		E		E1		L		M		I	
	mm	inch	mm	inch	mm	inch	mm	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SS-VMRT-6M-G2	6	G-1/8	4.0	1/2	12.7	9/16	19.6	27.0	26.4	8.1	17.3	15.3										
SS-VMRT-6M-G4	6	G-1/4	4.8	5/8	15.9	3/4	21.6	29.0	32.2	9.1	22.9	15.3										
SS-VMRT-8M-G4	8	G-1/4	5.9	5/8	15.9	3/4	22.4	29.9	32.2	9.1	22.9	16.2										
SS-VMRT-10M-G4	10	G-1/4	5.9	15/16	23.8	3/4	25.9	33.5	35.0	9.1	22.9	17.2										

TUBE (INCH) TO ISO PARALLEL THREAD (POSITIONABLE)

Ordering Information	A Tube O.D.		T (ISO)		D		W Wrench Flat		Wa Hex. Flat		N		E		E1		L		M		I	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VMRT-04-G2	1/4	6.35	G-1/8	.16	4.0	1/2	12.7	9/16	.77	19.6	1.06	26.9	1.04	26.4	.32	8.1	.68	17.3	.60	15.2		
SS-VMRT-04-G4	1/4	6.35	G-1/4	.19	4.8	5/8	15.9	3/4	.85	21.6	1.14	28.9	1.27	29.0	.36	9.1	.90	22.9	.60	15.2		
SS-VMRT-06-G4	3/8	9.52	G-1/4	.23	5.9	5/8	15.9	3/4	.91	23.1	1.20	30.5	1.27	30.5	.36	9.1	.90	22.9	.66	16.8		

* When ordering code SS-VMRT-**-AG**, "AG" stands for combined gaskets.

Female Run Tee



TUBE (METRIC) TO FEMALE NPT THREAD

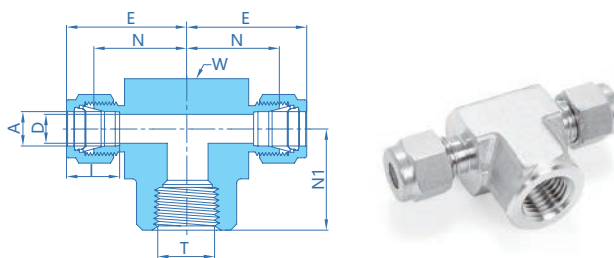
Ordering Information	A Tube O.D.		T (NPT)	D		W Wrench Flat		N		E		N1		I	
	mm	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SS-VFRT-6M-F2	6		1/8	4.8		5/8	15.9	19.6		27.0		19.0		15.3	
SS-VFRT-6M-F4	6		1/4	4.8		13/16	20.6	22.4		29.8		22.4		15.3	
SS-VFRT-8M-F2	8		1/8	6.4		5/8	15.9	22.4		29.9		22.4		16.2	
SS-VFRT-8M-F4	8		1/4	6.4		13/16	20.6	23.1		30.6		22.4		16.2	
SS-VFRT-10M-F4	10		1/4	7.9		13/16	20.6	25.9		33.5		22.4		17.2	
SS-VFRT-12M-F4	12		1/4	9.5		13/16	20.6	25.9		36.0		22.4		22.8	
SS-VFRT-12M-F6	12		3/8	9.5		15/16	23.8	25.9		36.0		22.4		22.8	
SS-VFRT-12M-F8	12		1/2	9.5		1-1/16	27.0	29.7		39.8		28.4		22.8	
SS-VFRT-16M-F8	16		1/2	12.7		1-1/16	27.0	29.7		39.8		28.4		24.4	

TUBE (INCH) TO FEMALE NPT THREAD

Ordering Information	A Tube O.D.		T (NPT)	D		W Wrench Flat		N		E		N1		I	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VFRT-02-F2	1/8	3.17	1/8	.09	2.28	5/8	15.9	.71	18.00	.97	24.63	.75	19.05	.50	12.7
SS-VFRT-04-F2	1/4	6.35	1/8	.19	4.82	5/8	15.9	.77	19.55	1.06	26.92	.75	19.05	.60	15.2
SS-VFRT-04-F4	1/4	6.35	1/4	.19	4.82	13/16	20.6	.88	22.35	1.17	29.71	.88	22.35	.60	15.2
SS-VFRT-06-F4	3/8	9.52	1/4	.28	7.11	13/16	20.6	.94	23.87	1.23	31.24	.88	22.35	.66	16.8
SS-VFRT-08-F6	1/2	12.70	3/8	.41	10.41	15/16	23.8	1.02	25.9	1.42	36.07	.88	22.35	.90	22.9
SS-VFRT-08-F8	1/2	12.70	1/2	.41	10.41	1-1/16	27.0	1.17	29.72	1.57	39.88	1.12	28.45	.90	22.9
SS-VFRT-12-F12	3/4	19.05	3/4	.62	15.75	1-3/8	34.9	1.36	34.54	1.76	44.70	1.25	31.75	.96	24.4
SS-VFRT-16-F12	1	25.4	3/4	.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.02	1.25	31.75	1.23	31.2
SS-VFRT-16-F16	1	25.4	1	.88	22.35	1-11/16	42.9	1.63	41.40	2.11	53.59	1.50	38.10	1.23	31.2

Tube Fitting VFBT Series

Female Branch Tee



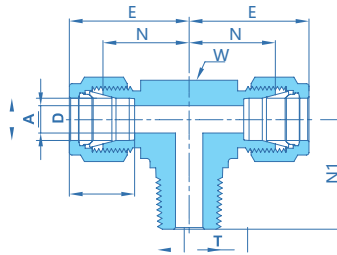
TUBE (METRIC) TO FEMALE NPT THREAD

Ordering Information	A Tube O.D.		T (NPT)		D		W Wrench Flat		N		E		N1		I	
	mm		inch	mm	mm		mm		mm		mm		mm		mm	
SS-VFBT-6M-F2	6		1/8	4.8	5/8		15.9		19.6		27.0		19.0		15.3	
SS-VFBT-6M-F4	6		1/4	4.8	13/16		20.6		22.4		29.8		22.4		15.3	
SS-VFBT-8M-F2	8		1/8	6.4	5/8		15.9		22.4		29.9		19.0		16.2	
SS-VFBT-8M-F4	8		1/4	6.4	13/16		20.6		23.1		30.6		22.4		16.2	
SS-VFBT-10M-F4	10		1/4	7.9	13/16		20.6		25.9		33.5		22.4		17.2	
SS-VFBT-10M-F6	10		3/8	7.9	15/16		23.8		25.9		33.5		22.4		17.2	
SS-VFBT-12M-F4	12		1/4	9.5	13/16		20.6		25.9		36.0		22.4		22.8	
SS-VFBT-12M-F6	12		3/8	9.5	15/16		23.8		25.9		36.0		22.4		22.8	
SS-VFBT-12M-F8	12		1/2	9.5	1 1/16		27.0		28.7		38.8		28.4		22.8	
SS-VFBT-16M-F8	16		1/2	12.7	1 1/16		27.0		28.7		38.8		28.4		24.4	

TUBE (INCH) TO FEMALE NPT THREAD

Ordering Information	A Tube O.D.		T (NPT)	D		W Wrench Flat		N		E		N1		I	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VFBT-02-F2	1/8	3.17	1/8	.09	2.28	5/8	15.9	.70	18.00	.97	24.64	.75	19.05	.50	12.7
SS-VFBT-04-F2	1/4	6.35	1/8	.19	4.82	5/8	15.9	.77	19.56	1.06	26.96	.75	19.05	.60	15.2
SS-VFBT-04-F4	1/4	6.35	1/4	.19	4.82	13/16	20.6	.88	22.35	1.17	29.71	.88	22.35	.60	15.2
SS-VFBT-06-F4	3/8	9.52	1/4	.28	7.11	13/16	20.6	.94	23.88	1.23	31.24	.88	22.35	.66	16.8
SS-VFBT-06-F6	3/8	9.52	3/8	.28	7.11	15/16	23.8	1.02	25.90	1.31	33.27	.88	22.35	.66	16.8
SS-VFBT-06-F8	3/8	9.52	1/2	.28	7.11	1 1/16	27.0	1.13	28.70	1.42	36.07	1.12	28.45	.66	16.8
SS-VFBT-08-F4	1/2	12.70	1/4	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	.88	22.35	.90	22.9
SS-VFBT-08-F6	1/2	12.70	3/8	.41	10.41	15/16	23.8	1.02	25.90	1.42	36.07	.88	22.35	.90	22.9
SS-VFBT-08-F8	1/2	12.70	1/2	.41	10.41	1-1/16	27.0	1.13	28.70	1.53	38.86	1.12	28.45	.90	22.9
SS-VFBT-10-F8	5/8	15.87	1/2	.50	12.70	1-1/16	27.0	1.13	28.70	1.53	38.86	1.12	28.44	.96	24.4
SS-VFBT-12-F12	3/4	19.05	3/4	.62	15.74	1-3/8	34.9	1.36	34.50	1.76	44.70	1.25	31.75	.96	24.4
SS-VFBT-16-F12	1	25.4	3/4	.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.02	1.25	31.75	1.23	31.2
SS-VFBT-16-F16	1	25.4	1	.88	22.35	1-11/16	42.9	1.63	41.40	2.11	53.60	1.50	38.10	1.23	31.2

Male Branch Tee



TUBE (METRIC) TO MALE NPT THREAD

Ordering Information	A Tube O.D.		T (NPT)	D		W Wrench Flat		N		E		N1		I	
	mm	mm		mm	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm
SS-VMBT-6M-M2	6		1/8	4.8		1/2	12.7	19.6		27.0		18.8		15.3	
SS-VMBT-6M-M4	6		1/4	4.8		1/2	12.7	19.6		27.0		23.4		15.3	
SS-VMBT-8M-M2	8		1/8	4.8		5/8	15.9	22.4		29.9		20.8		16.2	
SS-VMBT-8M-M4	8		1/4	6.4		5/8	15.9	22.4		29.9		25.4		16.2	
SS-VMBT-10M-M4	10		1/4	7.1		13/16	20.6	25.9		33.5		28.2		17.2	
SS-VMBT-12M-M4	12		1/4	7.1		13/16	20.6	25.9		36.0		28.2		22.8	
SS-VMBT-12M-M6	12		3/8	9.5		13/16	20.6	25.9		36.0		28.2		22.8	
SS-VMBT-12M-M8	12		1/2	9.5		13/16	20.6	25.9		36.0		33.0		22.8	
SS-VMBT-16M-M8	16		1/2	11.9		15/16	23.8	28.7		38.8		35.8		24.4	

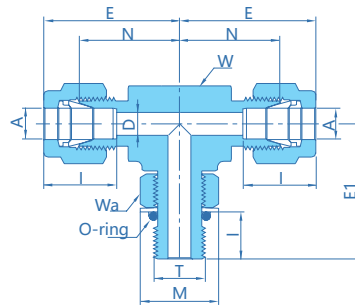
TUBE (INCH) TO MALE NPT THREAD

Ordering Information	A Tube O.D.		T (NPT)	D		W Wrench Flat		N		E		N1		I	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VMBT-02-M2	1/8	3.17	1/8	.09	2.28	7/16	11.1	.67	17.02	.93	23.62	.70	17.78	.50	12.7
SS-VMBT-02-M4	1/8	3.17	1/4	.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.92	23.37	.50	12.7
SS-VMBT-03-M2	3/16	4.76	1/8	.12	3.04	7/16	11.1	.70	17.78	.96	24.38	.70	17.78	.54	13.7
SS-VMBT-04-M2	1/4	6.35	1/8	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.74	18.80	.60	15.2
SS-VMBT-04-M4	1/4	6.35	1/4	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
SS-VMBT-05-M2	5/16	7.93	1/8	.19	4.82	5/8	15.9	.88	22.35	1.17	29.71	.82	20.83	.64	16.2
SS-VMBT-06-M4	3/8	9.52	1/4	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
SS-VMBT-06-M6	3/8	9.52	3/8	.28	7.11	13/16	20.6	1.02	25.91	1.31	33.27	1.11	28.19	.66	16.8
SS-VMBT-08-M6	1/2	12.70	3/8	.38	9.65	13/16	20.6	1.02	25.91	1.42	36.07	1.11	28.19	.90	22.9
SS-VMBT-08-M8	1/2	12.70	1/2	.41	10.41	13/16	20.6	1.02	25.91	1.42	36.07	1.30	33.02	.90	22.9
SS-VMBT-10-M8	5/8	15.87	1/2	.47	11.94	15/16	23.8	1.13	28.7	1.53	38.86	1.41	35.81	.96	24.4
SS-VMBT-12-M12	3/4	19.05	3/4	.62	15.75	1-1/16	27.0	1.17	29.72	1.57	39.88	1.45	36.83	.96	24.4

Tube Fitting

VMBT / VMRT Series

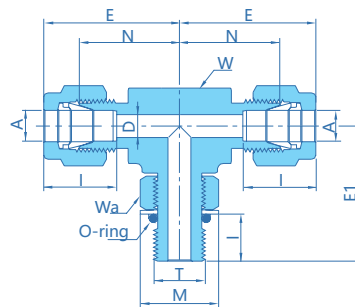
Male Branch Tee POS



TUBE (INCH) TO SAE / MS STRAIGHT THREAD BOSS (POSITIONABLE)

Ordering Information	A Tube O.D.		T (SAE)		D		W Wrench Flat		Wa Hex. Flat		N		E		E1		L		M		I	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VMBT-04-A4	1/4	6.35	7/16-20	.19	4.8	1/2	12.7	9/16	.83	21.10	1.12	28.45	1.12	28.45	.39	9.9	.65	16.5	.60	15.2		
SS-VMBT-06-A6	3/8	9.52	9/16-18	.28	7.1	5/8	15.9	11/16	.97	24.64	1.26	32.00	1.27	32.26	.44	11.2	.79	20.1	.66	16.8		

Male Branch Tee POS



TUBE (METRIC) TO ISO PARALLEL THREAD (POSITIONABLE)

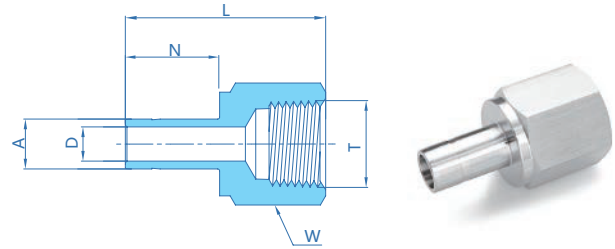
Ordering Information	A Tube O.D.		T (ISO)		D		W Wrench Flat		Wa Hex. Flat		N		E		E1		L		M		I	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SS-VMRT-6M-G2	6	G-1/8	4.0	1/2	12.7	9/16	19.6	27.0	26.4	8.1	17.3	15.3										
SS-VMRT-6M-G4	6	G-1/4	4.8	5/8	15.9	3/4	21.6	29.0	32.2	9.1	22.9	15.3										
SS-VMRT-8M-G4	8	G-1/4	5.9	5/8	15.9	3/4	22.4	29.9	32.2	9.1	22.9	16.2										
SS-VMRT-10M-G4	10	G-1/4	5.9	15/16	23.8	3/4	25.9	33.5	35.0	9.1	22.9	17.2										

TUBE (INCH) TO ISO PARALLEL THREAD (POSITIONABLE)

Ordering Information	A Tube O.D.		T (ISO)		D		W Wrench Flat		Wa Hex. Flat		N		E		E1		L		M		I	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VMRT-04-G2	1/4	6.35	G-1/8	.16	4.0	1/2	12.7	9/16	.77	19.6	1.06	26.9	1.04	26.4	.32	8.1	.68	17.3	.60	15.2		
SS-VMRT-04-G4	1/4	6.35	G-1/4	.19	4.8	5/8	15.9	3/4	.85	21.6	1.14	28.9	1.27	32.2	.36	9.1	.90	22.9	.60	15.2		
SS-VMRT-06-G4	3/8	9.52	G-1/4	.23	5.9	5/8	15.9	3/4	.91	23.1	1.20	30.5	1.27	32.2	.36	9.1	.90	22.9	.66	16.8		

* When ordering code SS-VMRT-**-AG**, "AG" stands for combined gaskets.

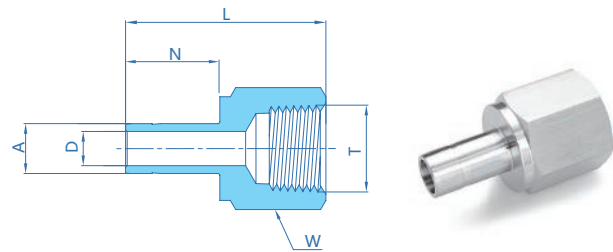
Female Adapter Tube To Pipe



TUBE (METRIC)						
Ordering Information	A Tube O.D.	T (NPT)	D	W Wrench Flat	N	L
	mm	inch	mm	mm	mm	mm
SS-VFA-TB3M-F2	3	1/8	2.1	14	13.5	31.5
SS-VFA-TB3M-F4	3	1/4	2.1	19	13.5	35.3
SS-VFA-TB4M-F4	4	1/4	2.2	19	14.2	35.0
SS-VFA-TB6M-F2	6	1/8	4.0	14	15.7	32.5
SS-VFA-TB6M-F4	6	1/4	4.0	19	15.7	37.1
SS-VFA-TB6M-F6	6	3/8	4.0	22	15.7	39.6
SS-VFA-TB6M-F8	6	1/2	4.0	27	15.7	45.5
SS-VFA-TB8M-F2	8	1/8	5.6	14	16.8	34.3
SS-VFA-TB8M-F4	8	1/4	5.6	19	16.8	37.6
SS-VFA-TB8M-F8	8	1/2	5.6	27	16.8	46.0
SS-VFA-TB10M-F4	10	1/4	7.1	19	17.5	38.1
SS-VFA-TB10M-F6	10	3/8	7.1	22	17.5	40.1
SS-VFA-TB10M-F8	10	1/2	7.1	27	17.5	46.5
SS-VFA-TB12M-F4	12	1/4	8.8	19	23.1	43.4
SS-VFA-TB12M-F6	12	3/8	8.8	22	23.1	45.5
SS-VFA-TB12M-F8	12	1/2	8.8	27	23.1	52.3
SS-VFA-TB16M-F6	16	3/8	12.7	24	24.7	48.0
SS-VFA-TB16M-F8	16	1/2	12.7	27	24.7	53.1
SS-VFA-TB20M-F8	20	1/2	15.1	27	26.6	56.0
SS-VFA-TB20M-F12	20	3/4	15.1	35	26.6	56.0

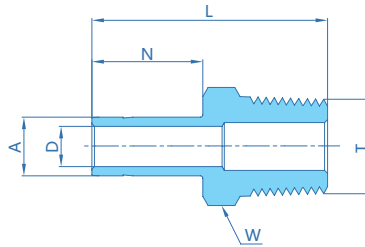
Tube Fitting VFA Series

Female Adapter Tube To Pipe



TUBE (INCH)										
Ordering Information	A Tube O.D.		T (NPT)	D		W Wrench Flat	N		L	
	inch	mm		inch	mm		inch	mm	inch	mm
SS-VFA-TB02-F2	1/8	3.17	1/8	.08	2.0	9/16	.53	13.45	1.24	31.5
SS-VFA-TB02-F4	1/8	3.17	1/4	.08	2.0	3/4	.53	13.45	1.39	35.3
SS-VFA-TB03-F4	3/16	4.76	1/4	.12	3.0	3/4	.56	14.20	1.41	35.8
SS-VFA-TB04-F2	1/4	6.35	1/8	.17	4.2	9/16	.62	15.75	1.30	33.0
SS-VFA-TB04-F4	1/4	6.35	1/4	.17	4.2	3/4	.62	15.75	1.46	37.1
SS-VFA-TB04-F6	1/4	6.35	3/8	.17	4.2	7/8	.62	15.75	1.55	39.4
SS-VFA-TB04-F8	1/4	6.35	1/2	.17	4.2	1 1/16	.62	15.75	1.79	45.5
SS-VFA-TB05-F4	5/16	7.93	1/4	.22	5.6	3/4	.66	16.75	1.48	37.6
SS-VFA-TB06-F2	3/8	9.52	1/8	.27	6.9	9/16	.69	17.50	1.35	34.3
SS-VFA-TB06-F4	3/8	9.52	1/4	.27	6.9	3/4	.69	17.50	1.50	38.1
SS-VFA-TB06-F6	3/8	9.52	3/8	.27	6.9	7/8	.69	17.50	1.59	40.4
SS-VFA-TB06-F8	3/8	9.52	1/2	.27	6.9	1-1/16	.69	17.50	1.84	46.7
SS-VFA-TB08-F4	1/2	12.70	1/4	.37	9.4	3/4	.91	23.10	1.71	43.4
SS-VFA-TB08-F6	1/2	12.70	3/8	.37	9.4	7/8	.91	23.10	1.79	45.5
SS-VFA-TB08-F8	1/2	12.70	1/2	.37	9.4	1-1/16	.91	23.10	2.05	52.1
SS-VFA-TB10-F8	5/8	15.87	1/2	.50	11.9	1-1/16	.97	24.65	2.09	53.1
SS-VFA-TB12-F8	3/4	19.05	1/2	.59	14.7	1-1/16	.97	24.65	2.08	52.8
SS-VFA-TB12-F12	3/4	19.05	3/4	.59	14.7	1-5/16	.97	24.65	2.16	54.9
SS-VFA-TB12-F16	3/4	19.05	1	.59	14.7	1-5/8	.97	24.65	2.30	58.4
SS-VFA-TB16-F12	1	25.40	3/4	.80	20.3	1-5/16	1.23	31.20	2.39	60.7
SS-VFA-TB16-F16	1	25.40	1	.80	20.3	1-5/8	1.23	31.20	2.53	64.3
SS-VFA-TB18-F18	1-1/4	31.75	1-1/4	1.02	25.9	2-1/8	1.73	43.82	3.06	77.7
SS-VFA-TB24-F24	1-1/2	38.10	1-1/2	1.25	31.8	2-3/8	2.14	54.33	3.50	88.9

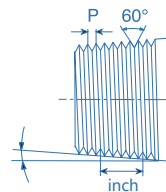
Male Adapter Tube To Pipe



TUBE (METRIC)						
Ordering Information	A Tube O.D.	T (NPT)	D	W Wrench Flat	N	L
	mm	inch	mm	mm	mm	mm
SS-VMA-TB3M-M2	3	1/8	2.1	12	13.5	30.0
SS-VMA-TB3M-M4	3	1/4	2.1	14	13.5	35.3
SS-VMA-TB6M-M2	6	1/8	4.0	12	15.7	32.8
SS-VMA-TB6M-M4	6	1/4	4.0	14	15.7	38.1
SS-VMA-TB6M-M6	6	3/8	4.0	18	15.7	37.0
SS-VMA-TB6M-M8	6	1/2	4.0	22	15.7	43.4
SS-VMA-TB8M-M2	8	1/8	4.8	12	16.8	33.5
SS-VMA-TB8M-M4	8	1/4	5.6	14	16.8	39.1
SS-VMA-TB8M-M6	8	3/8	5.6	11/16 inch	16.8	37.8
SS-VMA-TB8M-M8	8	1/2	5.6	22	16.8	43.0
SS-VMA-TB10M-M4	10	1/4	7.1	9/16 inch	17.5	39.9
SS-VMA-TB10M-M6	10	3/8	7.1	18	17.5	40.6
SS-VMA-TB10M-M8	10	1/2	7.1	22	17.5	46.2
SS-VMA-TB12M-M4	12	1/4	7.1	16	23.1	46.5
SS-VMA-TB12M-M6	12	3/8	8.8	18	23.1	46.5
SS-VMA-TB12M-M8	12	1/2	8.8	22	23.1	52.0
SS-VMA-TB16M-M8	16	1/2	11.9	22	24.7	50.5
SS-VMA-TB20M-M12	20	3/4	15.1	27	26.6	54.3

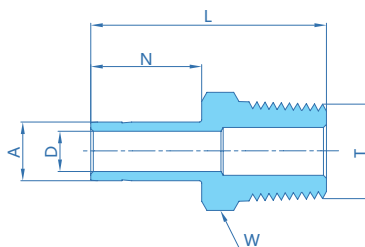
Reference Specifications:

- 60° Thread angle
- Pitch measured in inches
- Truncation of root and crest is flat
- Taper angle 1° 47'
- American Standard Pipe Thread (NPT).
- NPT (National Pipe Tapered) is made according to the specifications outlined in ANSI B1.20.1.



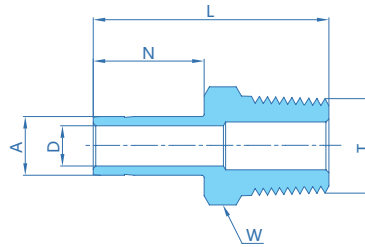
Tube Fitting VMA Series

Male Adapter Tube To Pipe



TUBE (INCH)										
Ordering Information	A Tube O.D.		T (NPT)	D		W Wrench Flat	N		L	
	inch	mm	inch	inch	mm	inch	inch	mm	inch	mm
SS-VMA-TB02-M2	1/8	3.17	1/8	.08	2.0	7/16	.53	13.45	1.16	29.5
SS-VMA-TB02-M4	1/8	3.17	1/4	.08	2.0	9/16	.53	13.45	1.37	34.8
SS-VMA-TB03-M2	3/16	4.76	1/8	.12	3.0	7/16	.56	14.20	1.19	30.2
SS-VMA-TB03-M4	3/16	4.76	1/4	.12	3.0	9/16	.56	14.20	1.40	35.6
SS-VMA-TB04-M2	1/4	6.35	1/8	.17	4.2	7/16	.62	15.75	1.25	31.8
SS-VMA-TB04-M4	1/4	6.35	1/4	.17	4.2	9/16	.62	15.75	1.46	37.1
SS-VMA-TB04-M6	1/4	6.35	3/8	.17	4.2	11/16	.62	15.75	1.49	37.9
SS-VMA-TB04-M8	1/4	6.35	1/2	.17	4.2	7/8	.62	15.75	1.71	43.4
SS-VMA-TB05-M2	5/16	7.93	1/8	.22	4.8	7/16	.66	16.75	1.29	32.7
SS-VMA-TB05-M4	5/16	7.93	1/4	.22	5.6	9/16	.66	16.75	1.50	38.1
SS-VMA-TB06-M2	3/8	9.52	1/8	.27	6.9	7/16	.69	17.50	1.32	33.5
SS-VMA-TB06-M4	3/8	9.52	1/4	.27	6.9	9/16	.69	17.50	1.53	38.9
SS-VMA-TB06-M6	3/8	9.52	3/8	.27	6.9	11/16	.69	17.50	1.56	39.6
SS-VMA-TB06-M8	3/8	9.52	1/2	.27	6.9	7/8	.69	17.50	1.78	45.2
SS-VMA-TB08-M4	1/2	12.70	1/4	.28	7.1	9/16	.91	23.10	1.75	44.5
SS-VMA-TB08-M6	1/2	12.70	3/8	.37	9.4	11/16	.91	23.10	1.78	45.2
SS-VMA-TB08-M8	1/2	12.70	1/2	.37	9.4	7/8	.91	23.10	2.0	50.8
SS-VMA-TB10-M6	5/8	15.87	3/8	.37	9.5	11/16	.97	24.65	1.81	47.6
SS-VMA-TB10-M8	5/8	15.87	1/2	.47	11.9	7/8	.97	24.65	2.06	52.3
SS-VMA-TB10-M12	5/8	15.87	3/4	.50	12.7	1-1/16	.97	24.65	2.06	52.3
SS-VMA-TB12-M8	3/4	19.05	1/2	.47	11.9	7/8	.97	24.65	2.06	52.3
SS-VMA-TB12-M12	3/4	19.05	3/4	.59	15.0	1-1/16	.97	24.65	2.06	52.3
SS-VMA-TB12-M16	3/4	19.05	1	.59	15.0	1-3/8	.97	24.65	2.28	57.3
SS-VMA-TB14-M12	7/8	22.22	3/4	.60	15.9	1-1/16	1.05	26.60	2.09	54.3
SS-VMA-TB16-M12	1	25.40	3/4	.60	15.8	1-1/16	1.30	33.00	2.31	58.7
SS-VMA-TB16-M16	1	25.40	1	.80	20.3	1-3/8	1.30	33.00	2.60	66.0
SS-VMA-TB18-M18	1-1/4	31.75	1-1/4	1.02	25.9	1-3/4	1.73	43.82	3.16	80.3
SS-VMA-TB24-M24	1-1/2	38.10	1-1/2	1.25	31.6	2-1/8	2.14	54.33	3.72	94.5

Male Adapter Tube To Pipe

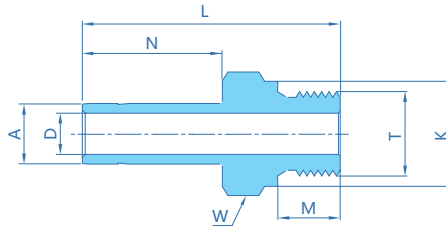


TUBE (METRIC)						
Ordering Information	A Tube O.D.	T (ISO)	D	W Hex. Flat	N	L
	mm	inch	mm	mm	mm	mm
SS-VMA-TB6M-R2	6	R-1/8	4.0	12	15.7	32.8
SS-VMA-TB6M-R4	6	R-1/4	4.0	14	15.7	38.1
SS-VMA-TB6M-R8	6	R-1/2	4.0	22	15.7	43.4
SS-VMA-TB8M-R2	8	R-1/8	4.8	12	16.8	33.5
SS-VMA-TB8M-R4	8	R-1/4	5.6	14	16.8	39.1
SS-VMA-TB8M-R6	8	R-3/8	5.6	11/16 inch	16.8	37.8
SS-VMA-TB10M-R4	10	R-1/4	7.1	14	17.5	39.9
SS-VMA-TB10M-R6	10	R-3/8	7.1	18	17.5	40.6
SS-VMA-TB10M-R8	10	R-1/2	7.1	22	17.5	46.2
SS-VMA-TB12M-R4	12	R-1/4	7.1	16	23.1	46.5
SS-VMA-TB12M-R6	12	R-3/8	8.8	18	23.1	46.2
SS-VMA-TB12M-R8	12	R-1/2	8.8	22	23.1	52.0
SS-VMA-TB20M-R12	20	R-3/4	14.7	27	26.6	54.3

TUBE (INCH)										
Ordering Information	A Tube O.D.		T (ISO)	D		W Hex. Flat	N		L	
	inch	mm	inch	inch	mm	inch	inch	mm	inch	mm
SS-VMA-TB02-R2	1/8	3.17	R-1/8	.08	2.0	7/16	.53	13.45	1.16	29.5
SS-VMA-TB02-R4	1/8	3.17	R-1/4	.08	2.0	9/16	.53	13.45	1.37	34.8
SS-VMA-TB04-R2	1/4	6.35	R-1/8	.17	4.2	7/16	.62	15.75	1.25	31.8
SS-VMA-TB04-R4	1/4	6.35	R-1/4	.17	4.2	9/16	.62	15.75	1.46	37.1
SS-VMA-TB04-R6	1/4	6.35	R-3/8	.17	4.2	11/16	.62	15.75	1.49	37.9
SS-VMA-TB04-R8	1/4	6.35	R-1/2	.17	4.2	7/8	.62	15.75	1.71	43.4
SS-VMA-TB06-R4	3/8	9.52	R-1/4	.27	6.9	9/16	.69	17.50	1.53	38.9
SS-VMA-TB06-R6	3/8	9.52	R-3/8	.27	6.9	11/16	.69	17.50	1.56	39.6
SS-VMA-TB06-R8	3/8	9.52	R-1/2	.27	6.9	7/8	.69	17.50	1.78	45.2
SS-VMA-TB08-R4	1/2	12.70	R-1/4	.28	7.1	9/16	.91	23.10	1.75	44.5
SS-VMA-TB08-R6	1/2	12.70	R-3/8	.37	9.4	11/16	.91	23.10	1.78	45.2
SS-VMA-TB08-R8	1/2	12.70	R-1/2	.37	9.4	7/8	.91	23.10	2.00	50.8
SS-VMA-TB10-R8	5/8	15.87	R-1/2	.47	11.9	7/8	.97	24.65	2.06	52.3
SS-VMA-TB12-R8	3/4	19.05	R-1/2	.47	11.9	7/8	.97	24.65	2.06	52.3
SS-VMA-TB12-R12	3/4	19.05	R-3/4	.59	15.0	1-1/16	.97	24.65	2.06	52.3
SS-VMA-TB16-R16	1	25.40	R-1	.80	20.3	1-3/8	1.30	33.00	2.60	66.0

Tube Fitting VMA Series

Male Adapter Tube To Pipe

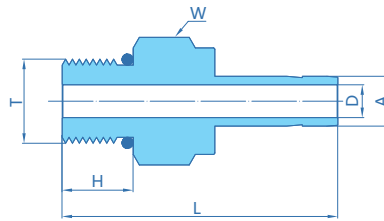


TUBE (METRIC)									
Ordering Information	A Tube O.D.	T (ISO)	D	K		W Hex. Flat	N	M	L
	mm	inch	mm	inch	mm	mm	mm	mm	mm
SS-VMA-TB6M-G2	6	G-1/8	4.0		13.8	9/16	15.7	7.1	34.3
SS-VMA-TB6M-G4	6	G-1/4	4.0		18.0	19	15.7	11.2	38.9
SS-VMA-TB8M-G4	8	G-1/4	5.6		18.0	19	16.8	11.2	40.1
SS-VMA-TB10M-G4	10	G-1/4	5.9		18.0	19	17.5	11.2	40.9
SS-VMA-TB10M-G6	10	G-3/8	7.1		21.8	22	17.5	11.2	41.1
SS-VMA-TB10M-G8	10	G-1/2	7.1		26.0	27	17.5	14.2	43.2
SS-VMA-TB12M-G4	12	G-1/4	5.8		18.0	19	23.1	11.2	47.0
SS-VMA-TB12M-G6	12	G-3/8	7.9		21.8	22	23.1	11.2	47.8
SS-VMA-TB12M-G8	12	G-1/2	8.8		26.0	27	23.1	14.2	49.8
SS-VMA-TB18M-G8	18	G-1/2	11.9		26.0	27	24.6	14.2	51.3
SS-VMA-TB18M-G12	18	G-3/4	13.9		32.0	35	24.6	15.7	55.9
SS-VMA-TB38M-G24	38	G-1-1/2	31.6		54.7	55	52.8	22.1	91.9

TUBE (INCH)														
Ordering Information	A Tube O.D.		T (ISO)	D		K		W Hex. Flat	N		M		L	
	inch	mm		inch	mm	inch	mm		inch	mm	inch	mm	inch	mm
SS-VMA-TB02-G2	1/8	3.17	G-1/8	.08	2.0	.54	13.8	9/16	.53	13.45	.28	7.1	1.22	31.8
SS-VMA-TB02-G4	1/8	6.35	G-1/4	.08	2.0	.71	18.0	3/4	.53	13.45	.44	11.2	1.41	36.3
SS-VMA-TB04-G2	1/4	3.17	G-1/8	.16	4.0	.54	13.8	9/16	.62	15.75	.28	7.1	1.20	34.3
SS-VMA-TB04-G4	1/4	6.35	G-1/4	.17	4.2	.71	18.0	3/4	.62	15.75	.44	11.2	1.42	38.9
SS-VMA-TB06-G4	3/8	6.35	G-1/4	.23	5.8	.71	18.0	3/4	.69	17.50	.44	11.2	1.57	40.4
SS-VMA-TB06-G6	3/8	9.52	G-3/8	.27	6.9	.86	21.8	7/8	.69	17.50	.44	11.2	1.60	41.1
SS-VMA-TB08-G4	1/2	6.35	G-1/4	.23	5.8	.71	18.0	3/4	.91	23.10	.44	11.2	1.85	47.0
SS-VMA-TB08-G6	1/2	9.52	G-3/8	.31	7.9	.86	21.8	7/8	.91	23.10	.44	11.2	1.88	47.7
SS-VMA-TB08-G8	1/2	12.70	G-1/2	.37	9.4	1.02	26.0	1-1/16	.91	23.10	.56	14.2	1.96	49.8
SS-VMA-TB12-G12	3/4	19.05	G-3/4	.59	15.0	1.26	32.0	1-5/16	.97	24.65	.62	15.7	2.16	54.9
SS-VMA-TB16-G16	1	25.40	G-1	.78	19.8	1.54	39.0	1-5/8	1.23	31.20	.72	18.3	2.59	65.8

* When ordering code SS-VMA-**-AG**, "AG" stands for combined gaskets.

Male Adapter



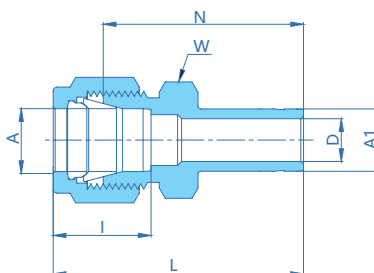
TUBE (INCH)											
Ordering Information	A Tube O.D.		T Straight Thread UN	D		W		H		L	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm
SS-VMA-TB02-A2	1/8	3.18	5/16-24	.08	2.03	7/16	11.1	.30	7.62	1.20	30.48
SS-VMA-TB04-A4	1/4	6.35	7/16-20	.17	4.20	9/16	14.3	.36	9.14	1.39	35.3
SS-VMA-TB04-A6	1/4	6.35	9/16-18	.17	4.20	11/16	17.5	.39	9.90	1.42	36.07
SS-VMA-TB06-A4	3/8	9.52	7/16-20	.20	5.10	9/16	14.3	.36	9.14	1.46	37.08
SS-VMA-TB06-A6	3/8	9.52	9/16-18	.27	6.85	11/16	17.5	.39	9.90	1.52	38.61
SS-VMA-TB06-A8	3/8	9.52	3/4-16	.27	6.85	7/8	22.2	.44	11.17	1.60	40.64
SS-VMA-TB08-A6	1/2	12.7	9/16-18	.28	7.11	11/16	17.5	.39	9.90	1.74	44.20
SS-VMA-TB08-A8	1/2	12.7	3/4-16	.37	9.40	7/8	22.2	.44	11.17	1.82	46.23
SS-VMA-TB10-A5	5/8	15.87	7/8-14	.47	11.94	1	25.4	.50	12.70	1.94	49.28
SS-VMA-TB12-A12	3/4	19.05	1-1/16-12	.59	15.00	1-1/4	31.8	.59	14.98	2.10	53.34
SS-VMA-TB16-A16	1	25.40	1 5/16-12	.80	20.32	1-1/2	38.1	.59	14.98	2.41	61.21
SS-VMA-TB18-A18	1-1/4	31.75	1 5/8-12	1.02	26.00	1-7/8	47.6	.59	15.10	2.81	71.37
SS-VMA-TB24-A24	1-1/2	38.10	1 7/8-12	1.25	31.60	2-1/8	54.0	.59	15.10	3.28	83.31

Installation Instructions :

Figure 1 Locking backed off Lubricate the O-ring by inserting it into the groove adjacent to the face of the metal back-up washer which is assembled at the extreme end of the groove as shown in. (Figure 1)	Figure 2 Fitting install hand tight Install the fitting into the S.A.E. straight thread boss, figure 2, until the metal back-up washer contacts the face of the boss as shown in. (Figure 2)	Figure 3 Fittings backed-off for alignment (turn maximum 1) Position the fitting by turning it counter clockwise up to a maximum of one. (see Figure 3)	Figure 4 Fittings locknut tightly to appropriate torque Holding the pad of the fitting with a spanner, tighten the locknut and washer against the face as shown in, (Figure 4)
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Tube Fitting VTO Series

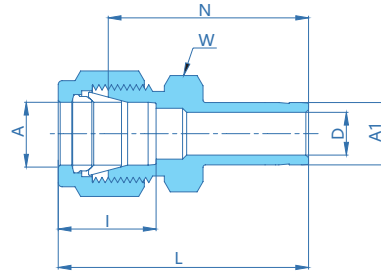
Reducer



TUBE (METRIC) TO STUB (METRIC)

Ordering Information	A Tube O.D.	A1 Tube O.D.	D	W Hex. Flat	N	L	I
	mm	mm	mm	mm	mm	mm	mm
SS-VTO-2M-TB3M	2	3	1.7	12	26.9	33.5	12.9
SS-VTO-3M-TB4M	3	4	2.2	12	28.4	35.0	12.9
SS-VTO-3M-TB6M	3	6	2.4	12	29.5	36.1	12.9
SS-VTO-3M-TB10M	3	10	2.4	14	31.8	38.4	12.9
SS-VTO-4M-TB6M	4	6	2.4	12	30.5	37.1	13.7
SS-VTO-6M-TB3M	6	3	2.1	14	29.5	36.9	15.3
SS-VTO-6M-TB8M	6	8	4.8	14	32.5	39.9	15.3
SS-VTO-6M-TB10M	6	10	4.8	14	33.3	40.7	15.3
SS-VTO-6M-TB12M	6	12	4.8	14	38.9	46.3	15.3
SS-VTO-6M-TB18M	6	18	4.8	22	42.2	49.6	15.3
SS-VTO-8M-TB6M	8	6	4.0	15	32.8	40.3	16.2
SS-VTO-8M-TB10M	8	10	6.4	15	34.5	42.0	16.2
SS-VTO-8M-TB12M	8	12	6.4	15	40.1	47.6	16.2
SS-VTO-10M-TB6M	10	6	4.0	18	34.8	42.4	17.2
SS-VTO-10M-TB8M	10	8	5.6	18	35.8	43.4	17.2
SS-VTO-10M-TB12M	10	12	7.9	18	42.2	49.8	17.2
SS-VTO-10M-TB15M	10	15	7.9	18	43.7	51.3	17.2
SS-VTO-10M-TB18M	10	18	7.9	22	43.7	51.3	17.2
SS-VTO-12M-TB6M	12	6	4.0	22	34.8	44.9	22.8
SS-VTO-12M-TB8M	12	8	5.6	22	35.8	45.9	22.8
SS-VTO-12M-TB10M	12	10	7.1	22	36.6	46.7	22.8
SS-VTO-12M-TB16M	12	16	9.5	22	43.7	53.8	22.8
SS-VTO-12M-TB18M	12	18	9.5	22	43.7	53.8	22.8
SS-VTO-12M-TB20M	12	20	9.5	22	46.0	56.1	22.8
SS-VTO-12M-TB22M	12	22	9.5	24	46.0	56.1	22.8
SS-VTO-12M-TB25M	12	25	9.5	27	52.3	62.4	22.8
SS-VTO-16M-TB12M	16	12	8.8	24	42.9	53.0	24.4
SS-VTO-18M-TB12M	18	12	8.8	27	44.5	54.6	24.4
SS-VTO-18M-TB16M	18	16	12.7	27	46.0	56.1	24.4
SS-VTO-18M-TB20M	18	20	15.1	27	47.5	57.6	24.4
SS-VTO-18M-TB22M	18	22	15.1	27	47.5	57.6	24.4
SS-VTO-18M-TB25M	18	25	15.1	27	52.3	62.4	24.4
SS-VTO-20M-TB16M	20	16	12.7	30	47.8	57.9	26.0
SS-VTO-20M-TB18M	20	18	13.9	30	47.8	57.9	26.0
SS-VTO-20M-TB22M	20	22	15.9	30	49.3	59.4	26.0
SS-VTO-20M-TB25M	20	25	15.9	30	54.1	64.2	26.0
SS-VTO-22M-TB18M	22	18	13.9	30	47.8	57.9	26.0
SS-VTO-22M-TB20M	22	20	15.1	30	49.3	59.4	26.0
SS-VTO-22M-TB25M	22	25	18.3	30	54.1	64.2	26.0
SS-VTO-25M-TB18M	25	18	13.9	35	50.8	63.1	31.3
SS-VTO-25M-TB20M	25	20	15.1	35	52.3	64.6	31.3

Reducer

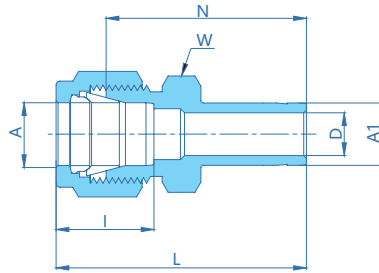


TUBE (INCH) TO STUB (INCH)

Ordering Information	A Tube O.D.		A1 Tube O.D.		D		W Hex. Flat	N		L		I	
	inch	mm	inch	mm	inch	mm	inch	inch	mm	inch	mm	inch	mm
SS-VTO-01-TB02	1/16	1.58	1/8	3.17	.05	1.27	5/16	1.00	25.40	1.15	29.21	.34	8.6
SS-VTO-01-TB04	1/16	1.58	1/4	6.35	.05	1.27	5/16	1.09	27.68	1.24	31.50	.34	8.6
SS-VTO-02-TB01	1/8	3.17	1/16	1.58	.03	.76	7/16	.88	22.35	1.14	28.96	.50	12.7
SS-VTO-02-TB02	1/8	3.17	1/8	3.17	.08	2.03	7/16	1.06	26.92	1.32	33.52	.50	12.7
SS-VTO-02-TB03	1/8	3.17	3/16	4.76	.09	2.28	7/16	1.09	27.68	1.35	34.29	.50	12.7
SS-VTO-02-TB04	1/8	3.17	1/4	6.35	.09	2.28	7/16	1.16	29.46	1.42	36.06	.50	12.7
SS-VTO-02-TB06	1/8	3.17	3/8	9.52	.09	2.28	7/16	1.22	30.98	1.48	37.59	.50	12.7
SS-VTO-02-TB08	1/8	3.17	1/2	12.70	.09	2.28	9/16	1.48	37.59	1.74	44.20	.50	12.7
SS-VTO-03-TB02	3/16	4.76	1/8	3.17	.08	2.03	7/16	1.11	28.19	1.37	34.80	.54	13.7
SS-VTO-03-TB04	3/16	4.76	1/4	6.35	.12	3.04	7/16	1.20	30.48	1.46	37.08	.54	13.7
SS-VTO-04-TB02	1/4	6.35	1/8	3.17	.08	2.03	1/2	1.16	29.46	1.45	36.83	.60	15.2
SS-VTO-04-TB03	1/4	6.35	3/16	4.76	.12	3.04	1/2	1.19	30.22	1.48	37.59	.60	15.2
SS-VTO-04-TB04	1/4	6.35	1/4	6.35	.17	4.20	1/2	1.25	31.75	1.54	39.11	.60	15.2
SS-VTO-04-TB05	1/4	6.35	5/16	7.93	.19	4.82	1/2	1.28	32.51	1.57	39.87	.60	15.2
SS-VTO-04-TB06	1/4	6.35	3/8	9.52	.19	4.82	1/2	1.31	33.27	1.60	40.64	.60	15.2
SS-VTO-04-TB08	1/4	6.35	1/2	12.70	.19	4.82	9/16	1.53	38.86	1.82	46.22	.60	15.2
SS-VTO-04-TB10	1/4	6.35	5/8	15.87	.19	4.82	11/16	1.60	40.64	1.89	48.00	.60	15.2
SS-VTO-04-TB12	1/4	6.35	3/4	19.05	.19	4.82	13/16	1.59	40.39	1.88	47.75	.60	15.2
SS-VTO-05-TB06	5/16	7.93	3/8	9.52	.25	6.35	9/16	1.36	34.54	1.65	41.91	.64	16.2
SS-VTO-05-TB08	5/16	7.93	1/2	12.70	.25	6.35	9/16	1.58	40.13	1.87	47.49	.64	16.2
SS-VTO-06-TB04	3/8	9.52	1/4	6.35	.17	4.20	5/8	1.34	34.03	1.63	41.40	.66	16.8
SS-VTO-06-TB06	3/8	9.52	3/8	9.52	.27	6.85	5/8	1.41	35.81	1.70	43.18	.66	16.8
SS-VTO-06-TB08	3/8	9.52	1/2	12.70	.28	7.11	5/8	1.62	41.14	1.91	48.51	.66	16.8
SS-VTO-06-TB10	3/8	9.52	5/8	15.87	.28	7.11	11/16	1.69	42.92	1.98	50.29	.66	16.8
SS-VTO-06-TB12	3/8	9.52	3/4	19.05	.28	7.11	13/16	1.69	42.92	1.98	50.29	.66	16.8
SS-VTO-08-TB04	1/2	12.70	1/4	6.35	.17	4.20	13/16	1.37	34.80	1.77	44.96	.90	22.9
SS-VTO-08-TB06	1/2	12.70	3/8	9.52	.27	6.85	13/16	1.44	36.58	1.84	46.74	.90	22.9
SS-VTO-08-TB08	1/2	12.70	1/2	12.70	.37	9.40	13/16	1.66	42.16	2.06	52.32	.90	22.9
SS-VTO-08-TB10	1/2	12.70	5/8	15.87	.41	10.41	13/16	1.72	43.68	2.12	53.84	.90	22.9
SS-VTO-08-TB12	1/2	12.70	3/4	19.05	.41	10.41	13/16	1.72	43.68	2.12	53.84	.90	22.9
SS-VTO-08-TB16	1/2	12.70	1	25.40	.41	10.41	1-1/6	1.97	50.03	2.37	60.19	.90	22.9
SS-VTO-10-TB12	5/8	15.87	3/4	19.05	.50	12.70	15/16	1.75	44.45	2.15	54.61	.96	24.4
SS-VTO-10-TB14	5/8	15.87	7/8	22.22	.50	12.70	15/16	1.81	45.97	2.21	56.13	.96	24.4
SS-VTO-10-TB16	5/8	15.87	1	25.40	.50	12.70	1-1/16	2.00	50.80	2.40	60.96	.96	24.4
SS-VTO-12-TB08	3/4	19.05	1/2	12.70	.37	9.40	1-1/16	1.75	44.45	2.15	54.61	.96	24.4
SS-VTO-12-TB16	3/4	19.05	1	25.40	.62	15.75	1-1/16	2.06	52.32	2.46	62.48	.96	24.4
SS-VTO-16-TB18	1	25.40	1-1/4	31.75	.88	22.35	1-3/8	2.69	68.33	3.17	80.52	1.23	31.2
SS-VTO-16-TB24	1	25.40	1-1/2	38.10	.88	22.35	1-5/8	3.03	76.96	3.51	89.15	1.23	31.2
SS-VTO-18-TB24	1-1/4	31.75	1-1/2	38.10	1.09	27.7	1-3/4	3.23	82.00	4.10	104.1	1.62	41.2

Tube Fitting VTO Series

Reducer



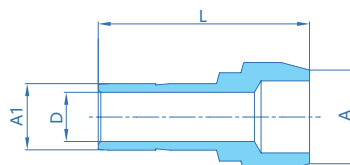
TUBE (METRIC) TO STUB (INCH)

Ordering Information	A Tube O.D.		A1 Tube O.D.		D		W Hex. Flat		N		L		I	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
SS-VTO-2M-TB02	2	1/8	2.0		2.0		12		26.9		33.5		12.9	
SS-VTO-3M-TB02	3	1/8	2.0		2.0		12		26.9		33.5		12.9	
SS-VTO-3M-TB04	3	1/4	2.4		2.4		12		29.5		36.1		12.9	
SS-VTO-4M-TB04	4	1/4	2.4		2.4		12		30.5		37.1		13.7	
SS-VTO-6M-TB02	6	1/8	2.2		2.2		14		29.5		36.9		15.3	
SS-VTO-6M-TB05	6	5/16	4.8		4.8		14		32.5		39.9		15.3	
SS-VTO-6M-TB06	6	3/8	4.8		4.8		14		33.3		40.7		15.3	
SS-VTO-6M-TB08	6	1/2	4.8		4.8		14		38.9		46.3		15.3	
SS-VTO-8M-TB06	8	3/8	6.4		6.4		15		34.5		42.0		16.2	
SS-VTO-8M-TB08	8	1/2	6.4		6.4		15		40.1		47.6		16.2	
SS-VTO-10M-TB06	10	3/8	6.8		6.8		18		36.6		44.2		17.2	
SS-VTO-10M-TB08	10	1/2	7.9		7.9		18		42.2		49.8		17.2	
SS-VTO-12M-TB08	12	1/2	9.4		9.4		22		42.2		52.3		22.8	
SS-VTO-12M-TB12	12	3/4	9.4		9.4		22		43.7		53.8		22.8	
SS-VTO-18M-TB12	18	3/4	15.0		15.0		27		46.0		56.1		24.4	
SS-VTO-18M-TB16	18	1	15.1		15.1		27		52.3		62.4		24.4	
SS-VTO-25M-TB16	25	1	20.3		20.3		35		57.2		69.5		31.3	

TUBE (INCH) TO STUB (METRIC)

Ordering Information	A Tube O.D.		A1 Tube O.D.		D		W Hex. Flat		N		L		I	
	inch	mm	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	mm
SS-VTO-02-TB6M	1/8	3.17	6	.09	2.30	7/16		1.16	29.46	1.42	36.06	.50	12.7	
SS-VTO-04-TB6M	1/4	6.35	6	.16	4.00	1/2		1.25	31.75	1.54	39.11	.60	15.2	
SS-VTO-06-TB8M	3/8	9.52	8	.22	5.60	5/8		1.42	36.06	1.71	43.43	.66	16.8	
SS-VTO-06-TB12M	3/8	9.52	12	.28	7.11	5/8		1.62	41.15	1.91	48.51	.66	16.8	

Reducing Port Connector

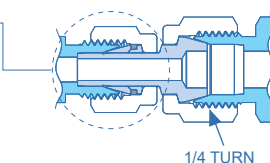


TUBE (METRIC)				
Ordering Information	A Tube O.D.		A1 Tube O.D.	
	mm		mm	
SS-VRPC-6M-TB3M	6		3	
SS-VRPC-8M-TB6M	8		6	
SS-VRPC-10M-TB6M	10		6	
SS-VRPC-10M-TB8M	10		8	
SS-VRPC-12M-TB6M	12		6	
SS-VRPC-12M-TB8M	12		8	
SS-VRPC-12M-TB10M	12		10	
SS-VRPC-16M-TB12M	16		12	
SS-VRPC-38M-TB25M	38		25	

TUBE (INCH)								
Ordering Information	A Tube O.D.		A1 Tube O.D.		D		L	
	inch	mm	inch	mm	inch	mm	inch	mm
SS-VRPC-02-TB01	1/8	3.17	1/16	1.58	.03	0.75	.68	17.3
SS-VRPC-04-TB01	1/4	6.35	1/16	1.58	.03	0.75	.71	18.0
SS-VRPC-04-TB02	1/4	6.35	1/8	3.17	.08	2.03	.89	22.6
SS-VRPC-06-TB02	3/8	9.52	1/8	3.17	.08	2.03	.91	23.2
SS-VRPC-06-TB04	3/8	9.52	1/4	6.35	.17	4.20	.98	24.9
SS-VRPC-08-TB04	1/2	12.70	1/4	6.35	.17	4.20	1.15	29.2
SS-VRPC-08-TB06	1/2	12.70	3/8	9.52	.28	7.10	1.20	30.5
SS-VRPC-12-TB08	3/4	19.05	1/2	12.70	.39	9.90	1.49	37.9

Tighten The Tube Fitting Nut:

- 1/4 " (6mm) and above, need to tighten the Tube fitting nut 1-1/4 turn.
- 3/16 " (4mm) and below, need to tighten the Tube fitting nut 3/4 turn.



Tube Fitting VPC Series

Port Connector



TUBE (METRIC)

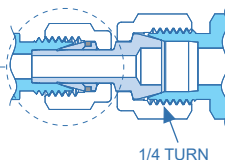
Ordering Information	A Tube O.D.		D		L	
	mm		mm		mm	
SS-VPC-3M	3		2.1		22.2	
SS-VPC-6M	6		4.0		25.0	
SS-VPC-8M	8		5.6		25.9	
SS-VPC-10M	10		7.1		27.1	
SS-VPC-12M	12		8.8		36.2	
SS-VPC-16M	16		12.7		37.4	
SS-VPC-18M	18		13.9		37.4	
SS-VPC-38M	38		31.6		81.9	
SS-VPC-50M	50		42.8		114.0	

TUBE (INCH)

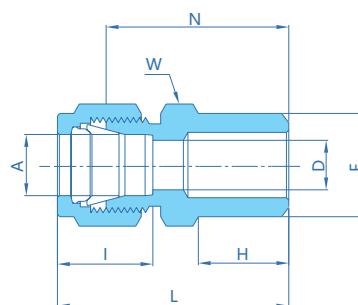
Ordering Information	A Tube O.D.		D		L	
	inch	mm	inch	mm	inch	mm
SS-VPC-01	1/16	1.58	.03	0.75	.54	13.7
SS-VPC-02	1/8	3.17	.08	2.03	.88	22.4
SS-VPC-04	1/4	6.35	.17	4.20	.98	24.9
SS-VPC-05	5/16	7.93	.24	6.00	1.02	25.9
SS-VPC-06	3/8	9.52	.27	6.85	1.03	26.2
SS-VPC-08	1/2	12.70	.37	9.40	1.41	35.8
SS-VPC-12	3/4	19.05	.59	15.00	1.47	37.3
SS-VPC-16	1	25.40	.80	20.30	1.90	48.1
SS-VPC-18	1-1/4	31.75	1.02	26.00	2.72	69.1
SS-VPC-24	1-1/2	38.10	1.25	31.60	3.31	84.1
SS-VPC-32	2	50.80	1.72	43.67	4.56	115.8

Tighten The Tube Fitting Nut:

- 1/4 " (6mm) and above, need to tighten the Tube fitting nut 1-1/4 turn.
- 3/16 " (4mm) and below, need to tighten the Tube fitting nut 3/4 turn.



Male Pipe Weld Connector

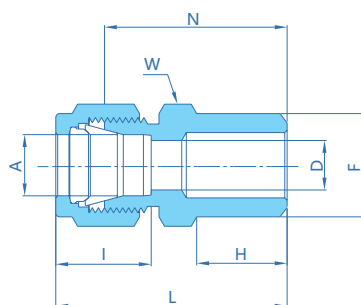


TUBE (METRIC)									
Ordering Information	A	F		D	W	N	H	L	I
	Tube O.D.	Pipe Size			Hex. Flat				
	mm	inch	mm	mm	mm	mm	mm	mm	mm
SS-VWC-3M-TW02	3	1/8	10.30	2.4	12	23.9	9.7	30.5	12.9
SS-VWC-4M-TW02	4	1/8	10.30	2.4	12	24.6	9.7	31.2	13.7
SS-VWC-6M-TW02	6	1/8	10.30	4.8	14	25.4	9.7	32.8	15.3
SS-VWC-6M-TW04	6	1/4	13.70	4.8	14	30.5	14.2	37.9	15.3
SS-VWC-8M-TW02	8	1/8	10.30	5.1	15	26.7	9.7	34.2	16.2
SS-VWC-8M-TW04	8	1/4	13.70	6.4	15	31.2	14.2	38.7	16.2
SS-VWC-8M-TW08	8	1/2	21.34	6.4	22	38.1	19.0	45.6	16.2
SS-VWC-10M-TW04	10	1/4	13.70	7.1	18	33.3	14.2	40.9	17.2
SS-VWC-10M-TW06	10	3/8	17.10	7.9	18	33.3	14.2	40.9	17.2
SS-VWC-10M-TW08	10	1/2	21.34	7.9	22	38.9	19.0	46.5	17.2
SS-VWC-12M-TW04	12	1/4	13.70	7.1	22	33.3	14.2	43.4	22.8
SS-VWC-12M-TW06	12	3/8	17.10	9.5	22	33.3	14.2	43.4	22.8
SS-VWC-12M-TW08	12	1/2	21.34	9.5	22	38.9	19.0	49.0	22.8
SS-VWC-12M-TW12	12	3/4	26.67	9.5	27	40.4	19.0	50.5	22.8
SS-VWC-14M-TW06	14	3/8	17.10	10.4	24	34.0	14.2	44.1	24.4
SS-VWC-15M-TW08	15	1/2	21.34	11.9	24	38.9	19.0	49.0	24.4
SS-VWC-16M-TW08	16	1/2	21.34	12.7	24	38.9	19.0	49.0	24.4
SS-VWC-18M-TW08	18	1/2	21.34	13.5	27	40.4	19.0	50.5	24.4
SS-VWC-30M-TW18	30	1-1/4	42.2	26.2	46	55.6	23.9	77.2	39.6
SS-VWC-32M-TW18	32	1-1/4	42.2	28.6	46	56.6	23.9	79.6	42
SS-VWC-38M-TW24	38	1-1/2	48.30	33.7	55	64.0	26.2	91.2	49.4

Tube Fitting

VWC / VWA Series

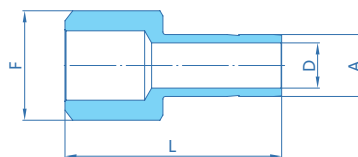
Male Pipe Weld Connector



TUBE (METRIC)

Ordering Information	A Tube O.D.		F Pipe Size		D		W Hex. Flat	N		H		L		I	
	inch	mm	inch	mm	inch	mm	inch	inch	mm	inch	mm	inch	mm	inch	mm
SS-VWC-02-TW02	1/8	3.7	1/8	10.30	.09	2.28	7/16	.94	23.88	.38	9.65	1.20	30.48	.50	12.7
SS-VWC-03-TW02	3/16	4.76	1/8	10.30	.12	3.04	7/16	.97	24.60	.38	9.65	1.23	31.25	.54	13.7
SS-VWC-04-TW02	1/4	6.35	1/8	10.30	.19	4.82	1/2	1.00	25.40	.38	9.65	1.29	32.77	.60	15.2
SS-VWC-04-TW04	1/4	6.35	1/4	13.70	.19	4.82	9/16	1.20	30.48	.56	14.22	1.49	37.85	.60	15.2
SS-VWC-05-TW02	5/16	7.93	1/8	10.30	.20	5.08	9/16	1.05	26.67	.38	9.65	1.34	34.04	.64	16.2
SS-VWC-05-TW04	5/16	7.93	1/4	13.70	.25	6.35	9/16	1.23	31.24	.56	14.22	1.52	38.61	.64	16.2
SS-VWC-06-TW04	3/8	9.52	1/4	13.70	.28	7.11	5/8	1.28	32.51	.56	14.22	1.57	39.87	.66	16.8
SS-VWC-06-TW06	3/8	9.52	3/8	17.10	.28	7.11	11/16	1.28	32.51	.56	14.22	1.57	39.87	.66	16.8
SS-VWC-06-TW08	3/8	9.52	1/2	21.34	.28	7.11	7/8	1.53	38.86	.75	19.05	1.82	46.22	.66	16.8
SS-VWC-06-TW12	3/8	9.52	3/4	26.67	.28	7.11	1-1/16	1.59	40.38	.75	19.05	1.88	47.75	.66	16.8
SS-VWC-08-TW06	1/2	12.70	3/8	17.10	.41	10.41	13/16	1.31	33.27	.56	14.22	1.71	44.43	.90	22.9
SS-VWC-08-TW08	1/2	12.70	1/2	21.34	.41	10.41	7/8	1.53	38.86	.75	19.05	1.93	49.00	.90	22.9
SS-VWC-08-TW12	1/2	12.70	3/4	26.67	.41	10.41	1-1/16	1.59	40.40	.75	19.05	1.99	50.55	.90	22.9
SS-VWC-08-TW16	1/2	12.70	1	33.40	.41	10.41	1-3/8	1.87	47.50	.94	23.87	2.27	57.65	.90	22.9
SS-VWC-10-TW08	5/8	15.87	1/2	21.34	.50	12.70	15/16	1.53	38.86	.75	19.05	1.93	49.02	.96	24.4
SS-VWC-12-TW08	3/4	19.05	1/2	21.34	.53	13.46	1-1/16	1.53	38.86	.75	19.05	1.93	49.00	.96	24.4
SS-VWC-12-TW12	3/4	19.05	3/4	26.67	.62	15.74	1-1/16	1.59	40.40	.75	19.05	1.99	50.55	.96	24.4
SS-VWC-16-TW16	1	25.40	1	33.40	.88	22.35	1-3/8	1.97	50.03	.94	23.87	2.45	62.23	1.23	31.2
SS-VWC-18-TW18	1-1/4	31.75	1-1/4	42.16	1.09	27.70	1-3/4	2.17	55.12	.94	23.88	3.04	77.22	1.62	41.2
SS-VWC-24-TW24	1-1/2	38.10	1-1/2	48.26	1.34	34.00	2-1/8	2.43	61.72	1.03	26.16	3.50	88.90	1.97	50.0
SS-VWC-32-TW32	2	50.80	2	60.33	1.81	45.97	2-3/4	3.00	76.20	1.06	26.92	4.47	113.34	2.66	67.6

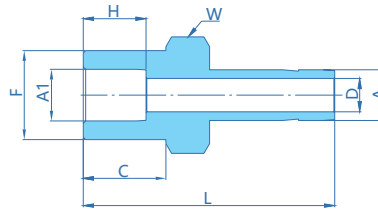
Weld Adapter Tube To Pipe



TUBE (INCH)

Ordering Information	A Tube O.D.		F Pipe Size		D		L	
	inch	mm	inch	mm	inch	mm	inch	mm
SS-VWA-04-04	1/4	6.35	1/4	13.70	.17	4.20	1.14	28.96
SS-VWA-06-08	3/8	9.52	1/2	21.34	.27	6.85	1.46	37.08
SS-VWA-08-08	1/2	12.7	1/2	21.34	.37	9.40	1.66	42.15
SS-VWA-08-12	1/2	12.7	3/4	26.67	.37	9.40	1.68	42.67
SS-VWA-12-12	3/4	19.05	3/4	26.67	.59	15.0	1.87	47.50

Socket Weld Adapter



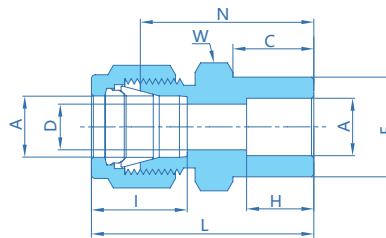
TUBE (METRIC) TO TUBE (INCH)

Ordering Information	A Tube O.D.		A1 Pipe Size		C		D		W Hex. Flat		F		H		L	
	mm		inch		mm		mm		inch		mm		mm		mm	
SS-VSWA-6M-04	6		1/4		10.4		4.0		1/2		11.2		7.9		31.7	
SS-VSWA-10M-04	10		1/4		10.4		4.8		9/16		11.2		7.9		34.0	
SS-VSWA-10M-06	10		3/8		11.9		7.1		5/8		15.8		9.7		36.0	

TUBE (INCH) TO TUBE (INCH)

Ordering Information	A Tube O.D.		A1 Pipe Size		C		D		W Hex. Flat		F		H		L	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VSWA-04-04	1/4	6.35	1/4	6.35	.41	10.47	.17	4.20	1/2	12.7	.44	11.18	.31	7.90	1.25	31.70
SS-VSWA-06-06	3/8	9.52	3/8	9.52	.47	11.94	.28	7.11	5/8	15.9	.62	15.75	.38	9.65	1.42	36.70
SS-VSWA-08-08	1/2	12.7	1/2	12.7	.47	11.94	.39	9.91	13/16	20.6	.75	19.05	.50	12.7	1.67	42.42

Tube Socket Weld Union



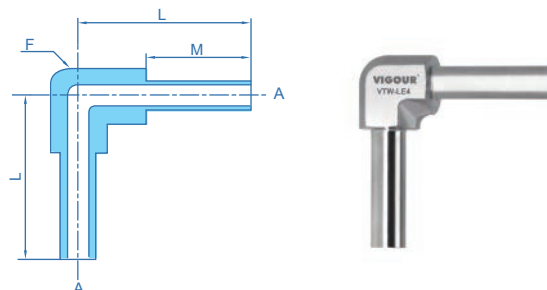
TUBE (INCH)

Ordering Information	A Tube O.D.		C		D		W Hex. Flat		F		H		I		L		N	
	inch	mm	inch	mm	inch	mm	inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VSWC-02-02	1/8	3.17	.34	8.64	.09	2.28	7/16		.31	7.87	.25	6.35	.50	12.70	1.14	28.96	.88	22.35
SS-VSWC-04-04	1/4	6.35	.41	10.41	.19	4.80	1/2		.44	11.18	.31	7.90	.60	15.20	1.32	33.53	1.03	26.16
SS-VSWC-06-06	3/8	9.52	.47	11.94	.28	7.10	5/8		.62	15.75	.38	9.65	.66	16.80	1.48	37.60	1.19	30.23
SS-VSWC-08-08	1/2	12.70	.47	11.94	.41	10.40	13/16		.75	19.05	.50	12.70	.90	22.90	1.62	41.15	1.22	31.00
SS-VSWC-12-12	3/4	19.05	.47	11.94	.62	15.80	1-1/16		1.05	26.67	.56	14.20	.96	24.40	1.71	43.43	1.31	33.28
SS-VSWC-16-16	1	25.40	.56	14.22	.88	22.35	1-3/8		1.36	34.54	.75	19.05	1.23	31.20	2.07	52.58	1.59	40.40

Tube Butt Weld fittings

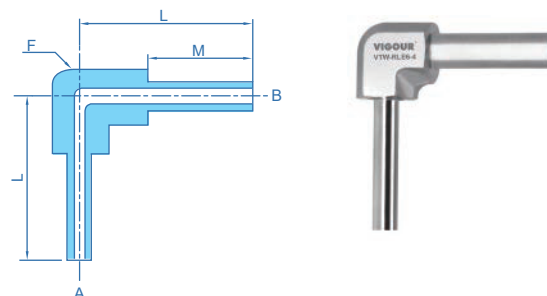
VTW Series

Long Elbow 90°



Ordering Information	A Tube O.D.	A Wall Thickness	L	M	F	Working Pressure
	inch	inch	inch (mm)	inch (mm)	inch	psig (bar)
VTW-LE4-BA	1/4	0.035	1.23 (31.2)	0.75 (19.0)	7/16	5100 (351)
VTW-LE6-BA	3/8	0.035	1.20 (30.5)	0.75 (19.0)	7/16	3300 (227)
VTW-LE8-BA	1/2	0.049	1.34 (34.0)	0.75 (19.0)	11/16	3700 (254)
VTW-LE12-BA	3/4	0.049	1.46 (37.1)	0.75 (19.0)	15/16	2400 (165)
VTW-LE16-BA	1	0.065	1.34 (34.0)	0.75 (19.0)	1-1/4	1900 (130)

Reducing Long Elbow

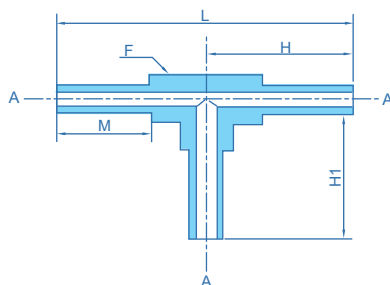


Ordering Information	A Tube O.D.	A Wall Thickness	B Tube O.D.	B Wall Thickness	L	M	F	Working Pressure
	inch	inch	inch	mm	inch (mm)	inch (mm)	inch	psig (bar)
VTW-RLE6-4-BA	1/4	0.039	3/8	0.039	0.98 (25)	0.75 (19.0)	6/16	3300 (227)
VTW-RLE8-4-BA	1/4	0.039	1/2	0.049	1.06 (27)	0.75 (19.0)	7/16	3700 (254)
VTW-RLE8-6-BA	3/8	0.039	1/2	0.049	1.06 (27)	0.75 (19.0)	7/16	3300 (227)
VTW-RLE12-4-BA	1/4	0.039	3/4	0.065	1.24 (31.5)	0.75 (19.0)	15/16	2400 (165)
VTW-RLE12-6-BA	3/8	0.039	3/4	0.065	1.24 (31.5)	0.75 (19.0)	15/16	2400 (165)
VTW-RLE12-8-BA	1/2	0.049	3/4	0.065	1.24 (31.5)	0.75 (19.0)	15/16	2400 (165)

Tube Butt Weld fittings

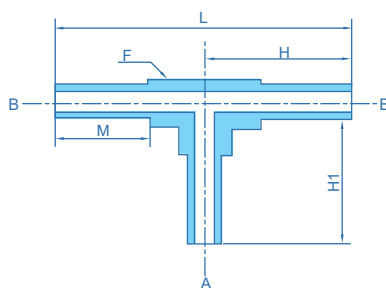
VTW Series

Long Elbow 90°



Ordering Information	A Tube O.D.	A Wall Thickness	L	M	F	H	Working Pressure
	inch	inch	inch (mm)	inch (mm)	inch	inch (mm)	psig (bar)
VTW-LT4-BA	1/4	0.035	2.46 (62.5)	0.75 (19.0)	7/16	1.23 (31.2)	5100 (351)
VTW-LT6-BA	3/8	0.035	2.40 (61.0)	0.75 (19.0)	7/16	1.20 (30.5)	3300 (227)
VTW-LT8-BA	1/2	0.049	2.68 (68.1)	0.75 (19.0)	11/16	1.34 (34.0)	3700 (254)
VTW-LT12-BA	3/4	0.049	2.91 (73.9)	0.75 (19.0)	15/16	1.46 (37.1)	2400 (165)
VTW-LT16-BA	1	0.065	2.68 (68.1)	0.75 (19.0)	1-1/4	1.34 (34.0)	1900 (130)

Reducing Long Elbow

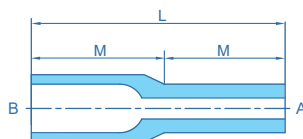


Ordering Information	A Tube O.D.	A Wall Thickness	B Tube O.D.	B Wall Thickness	L	M	F	H	H1	Working Pressure
	inch	inch	inch	mm	inch (mm)	inch (mm)	inch	inch (mm)	inch (mm)	psig (bar)
VTW-RLT6-4-BA	1/4	0.035	3/8	0.035	2.39 (61.0)	0.75 (19.0)	7/16	1.20 (30.5)	1.23 (31.2)	3300 (227)
VTW-RLT8-4-BA	1/4	0.035	1/2	0.049	2.67 (68.1)	0.75 (19.0)	11/16	1.34 (34.0)	1.34 (34.0)	3700 (254)
VTW-RLT8-6-BA	3/8	0.035	1/2	0.049	2.67 (68.1)	0.75 (19.0)	11/16	1.34 (34.0)	1.35 (34.3)	3300 (227)
VTW-RLT12-4-BA	1/4	0.035	3/4	0.049	2.91 (74.2)	0.75 (19.0)	15/16	1.46 (37.1)	1.48 (34.3)	2400 (165)
VTW-RLT12-6-BA	3/8	0.035	3/4	0.049	2.91 (74.2)	0.75 (19.0)	15/16	1.46 (37.1)	1.48 (37.6)	2400 (165)
VTW-RLT12-8-BA	1/2	0.049	3/4	0.049	2.48 (63.0)	0.75 (19.0)	15/16	1.24 (31.5)	1.24 (31.5)	2400 (165)

Tube Butt Weld fittings

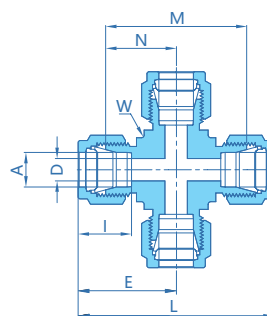
VTW Series

Reducing Long Union



Ordering Information	A Tube O.D.	A Wall Thickness	B Tube O.D.	B Wall Thickness	L	M	Working Pressure
	inch	inch	inch	inch (mm)	inch (mm)	inch (mm)	psig (bar)
VTW-RLU6-4-BA	1/4	0.035	3/8	0.035	1.50 (38.1)	0.75 (19.0)	3300 (227)
VTW-RLU8-4-BA	1/4	0.035	1/2	0.049	1.50 (38.1)	0.75 (19.0)	3700 (254)
VTW-RLU8-6-BA	3/8	0.035	1/2	0.049	1.50 (38.1)	0.75 (19.0)	3300 (227)
VTW-RLU12-4-BA	1/4	0.035	3/4	0.049	1.50 (38.1)	0.75 (19.0)	2400 (165)
VTW-RLU12-6-BA	3/8	0.049	3/4	0.049	1.50 (38.1)	0.75 (19.0)	2400 (165)
VTW-RLU12-8-BA	1/2	0.035	3/4	0.065	1.50 (38.1)	0.75 (19.0)	2400 (165)
VTW-RLU16-4-BA	1/4	0.035	1	0.065	1.50 (38.1)	0.75 (19.0)	2400 (165)
VTW-RLU16-6-BA	3/8	0.049	1	0.065	1.50 (38.1)	0.75 (19.0)	2400 (165)
VTW-RLU16-8-BA	1/2	0.049	1	0.065	1.50 (38.1)	0.75 (19.0)	2400 (165)
VTW-RLU16-12-BA	3/4	0.049	1	0.065	1.50 (38.1)	0.75 (19.0)	2400 (165)

Union Cross

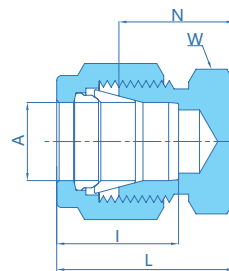


TUBE (METRIC)									
Ordering Information	A Tube O.D.	D	N	W Wrench Flat		E	M	L	I
	mm	inch	mm	inch	mm	mm	mm	mm	mm
SS-VUC-3M	3	2.4	15.7	3/8	9.5	22.3	31.5	44.7	12.9
SS-VUC-6M	6	4.8	19.6	1/2	12.7	27.0	39.1	53.9	15.3
SS-VUC-8M	8	6.4	22.4	5/8	15.9	29.9	44.7	59.7	16.2
SS-VUC-10M	10	7.9	25.9	13/16	20.6	33.5	51.8	67.0	17.2
SS-VUC-12M	12	9.5	25.9	13/16	20.6	36.0	51.8	72.0	22.8
SS-VUC-16M	16	12.7	26.9	15/16	23.8	37.0	53.8	74.0	24.4
SS-VUC-18M	18	15.1	28.2	1-1/16	27.0	38.3	56.4	76.6	24.4
SS-VUC-20M	20	15.9	34.5	1-3/8	34.9	44.6	69.0	89.3	26.0
SS-VUC-22M	22	18.3	34.6	1-3/8	34.9	44.7	69.1	89.4	26.0
SS-VUC-25M	25	21.8	36.8	1-3/8	34.9	49.1	73.7	98.3	31.3

TUBE (INCH)																
Ordering Information	A Tube O.D.		D		N		W Wrench Flat		E		M		L		I	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SS-VUC-02	1/8	3.17	.09	2.28	.62	15.74	3/8	9.5	.88	22.35	1.24	31.48	1.76	44.70	.50	12.7
SS-VUC-04	1/4	6.35	.19	4.82	.77	19.56	1/2	12.7	1.06	26.92	1.54	39.12	2.12	53.84	.60	15.2
SS-VUC-05	5/16	7.93	.25	6.35	.88	22.35	5/8	15.9	1.17	29.71	1.76	44.70	2.34	59.42	.64	16.2
SS-VUC-06	3/8	9.52	.28	7.11	.91	23.11	5/8	15.9	1.20	30.48	1.82	46.22	2.40	60.96	.66	16.8
SS-VUC-08	1/2	12.70	.41	10.41	1.02	25.9	13/16	20.6	1.42	36.07	2.04	51.80	2.84	72.14	.90	22.9
SS-VUC-12	3/4	19.05	.62	15.74	1.17	29.72	1-1/16	27.0	1.57	39.88	2.34	59.44	3.14	79.76	.96	24.4
SS-VUC-16	1	25.40	.88	22.35	1.45	36.8	1-3/8	34.9	1.93	49.02	2.90	73.60	3.86	98.04	1.23	31.2

Tube Fitting VC Series

Cap



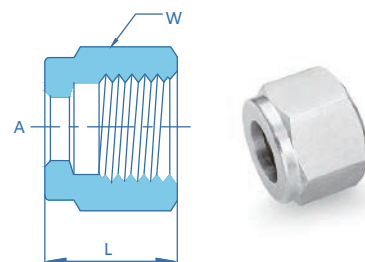
TUBE (METRIC)

Ordering Information	A Tube O.D.		W Wrench Flat		N		L		I	
	mm		mm		mm		mm		mm	
SS-VC-2M	2		12		13.5		20.1		12.9	
SS-VC-3M	3		12		13.5		20.1		12.9	
SS-VC-4M	4		12		14.7		21.3		13.7	
SS-VC-6M	6		14		15.7		23.1		15.3	
SS-VC-8M	8		15		17.0		24.5		16.2	
SS-VC-10M	10		18		19.0		26.6		17.2	
SS-VC-12M	12		22		19.0		30.7		22.8	
SS-VC-14M	14		24		19.8		31.5		24.4	
SS-VC-15M	15		24		19.8		31.5		24.4	
SS-VC-16M	16		24		19.8		31.5		24.4	
SS-VC-18M	18		27		21.3		32.3		24.4	
SS-VC-20M	20		30		23.9		34.8		26.0	
SS-VC-22M	22		30		23.9		34.8		26.0	
SS-VC-25M	25		35		26.2		40.9		31.3	
SS-VC-38M	38*		55		37.8		65.4		49.4	

TUBE (INCH)

Ordering Information	A Tube O.D.		W Wrench Flat		N		L		I	
	inch	mm	inch		inch	mm	inch	mm	inch	mm
SS-VC-01	1/16	1.58	5/16		.44	11.17	.59	14.98	.34	8.6
SS-VC-02	1/8	3.17	7/16		.53	13.46	.79	20.06	.50	12.7
SS-VC-03	3/16	4.76	7/16		.58	14.73	.84	21.84	.54	13.7
SS-VC-04	1/4	6.35	1/2		.63	16.00	.92	23.37	.60	15.2
SS-VC-05	5/16	7.93	9/16		.67	17.01	.96	24.38	.64	16.2
SS-VC-06	3/8	9.52	5/8		.72	18.28	1.01	26.65	.66	16.8
SS-VC-08	1/2	12.70	13/16		.75	19.05	1.15	30.70	.90	22.9
SS-VC-10	5/8	15.87	15/16		.78	19.81	1.18	31.50	.96	24.4
SS-VC-12	3/4	19.05	1-1/16		.84	21.33	1.24	32.30	.96	24.4
SS-VC-14	7/8	22.22	1-3/16		.94	23.88	1.34	34.04	1.02	25.9
SS-VC-16	1	25.40	1-3/8		1.03	26.16	1.51	40.90	1.23	31.2
SS-VC-18	1-1/4	31.75	1-3/4		1.23	31.24	2.10	53.34	1.62	41.2
SS-VC-24	1- 1/2	38.10	2-1/8		1.47	37.33	2.54	64.52	1.97	50.0
SS-VC-32	2	50.80	2-3/4		1.94	49.28	3.41	86.61	2.66	67.6

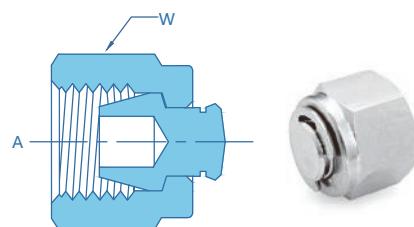
Nut



TUBE (METRIC)			
Ordering Information	A Tube O.D.	W Hex. Flat	L
SS-VN-2M	2	12	11.9
SS-VN-3M	3	12	11.9
SS-VN-4M	4	12	11.9
SS-VN-6M	6	14	12.7
SS-VN-8M	8	16	13.5
SS-VN-10M	10	19	15.1
SS-VN-12M	12	22	17.4
SS-VN-14M	14	25	17.4
SS-VN-15M	15	25	17.4
SS-VN-16M	16	25	17.4
SS-VN-18M	18	30	17.4
SS-VN-20M	20	32	17.4
SS-VN-22M	22	32	17.4
SS-VN-25M	25	38	20.6
SS-VN-38M	38	60	40.6
SS-VN-50M	50	inch3	54.0

TUBE (INCH)					
Ordering Information	A Tube O.D.		W Hex. Flat	L	
	inch	mm	inch	inch	mm
SS-VN-01	1/16	1.58	5/16	.31	7.87
SS-VN-02	1/8	3.17	7/16	.47	11.93
SS-VN-03	3/16	4.76	1/2	.47	11.93
SS-VN-04	1/4	6.35	9/16	.50	12.70
SS-VN-05	5/16	7.93	5/8	.53	13.46
SS-VN-06	3/8	9.52	11/16	.56	14.22
SS-VN-08	1/2	12.70	7/8	.69	17.52
SS-VN-10	5/8	15.87	1	.69	17.52
SS-VN-12	3/4	19.05	1-1/8	.69	17.52
SS-VN-14	7/8	22.22	1-1/4	.69	17.52
SS-VN-16	1	25.40	1-1/2	.81	20.57
SS-VN-18	1-1/4	31.75	1-7/8	1.25	31.75
SS-VN-24	1-1/2	38.10	2-1/4	1.50	38.10
SS-VN-32	2	50.80	3	2.06	52.32

Plug

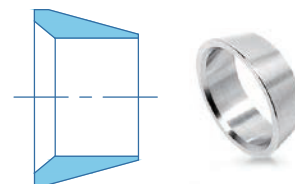


TUBE (METRIC)		
Ordering Information	A Tube O.D.	W Hex. Flat
	mm	mm
SS-VP-2M	2	12
SS-VP-3M	3	12
SS-VP-4M	4	12
SS-VP-6M	6	14
SS-VP-8M	8	16
SS-VP-10M	10	19
SS-VP-12M	12	22
SS-VP-14M	14	25
SS-VP-15M	15	25
SS-VP-16M	16	25
SS-VP-18M	18	30
SS-VP-20M	20	32
SS-VP-22M	22	32
SS-VP-25M	25	38
SS-VP-38M	38	60
SS-VP-50M	50	3 inch

TUBE (INCH)			
Ordering Information	A Tube O.D.		W Hex. Flat
	inch	mm	inch
SS-VP-01	1/16	1.58	5/16
SS-VP-02	1/8	3.17	7/16
SS-VP-03	3/16	4.76	1/2
SS-VP-04	1/4	6.35	9/16
SS-VP-05	5/16	7.93	5/8
SS-VP-06	3/8	9.52	11/16
SS-VP-08	1/2	12.70	7/8
SS-VP-10	5/8	15.87	1
SS-VP-12	3/4	19.05	1-1/8
SS-VP-14	7/8	22.22	1-1/4
SS-VP-16	1	25.40	1-1/2
SS-VP-18	1-1/4	31.75	1-7/8
SS-VP-24	1-1/2	38.10	2-1/4
SS-VP-32	2	50.80	3 inch

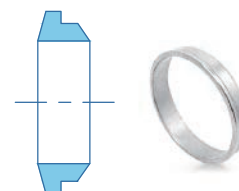
Tube Fitting VFF / VBF Series

Front Ferrule



TUBE (METRIC)		
Ordering Information	Tube O.D.	
	mm	
SS-VFF-2M	2	
SS-VFF-3M	3	
SS-VFF-4M	4	
SS-VFF-6M	6	
SS-VFF-8M	8	
SS-VFF-10M	10	
SS-VFF-12M	12	
SS-VFF-14M	14	
SS-VFF-15M	15	
SS-VFF-16M	16	
SS-VFF-18M	18	
SS-VFF-20M	20	
SS-VFF-22M	22	
SS-VFF-25M	25	
SS-VFF-38M	38	
SS-VFF-50M	50	

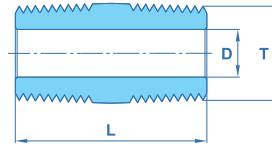
TUBE (INCH)		
Ordering Information	Tube O.D.	
	inch	mm
SS-VFF-01	1/16	1.58
SS-VFF-02	1/8	3.17
SS-VFF-03	3/16	4.76
SS-VFF-04	1/4	6.35
SS-VFF-05	5/16	7.93
SS-VFF-06	3/8	9.52
SS-VFF-08	1/2	12.70
SS-VFF-10	5/8	15.87
SS-VFF-12	3/4	19.05
SS-VFF-14	7/8	22.22
SS-VFF-16	1	25.40
SS-VFF-18	1-1/4	31.75
SS-VFF-24	1-1/2	38.10
SS-VFF-32	2	50.80



TUBE (METRIC)		
Ordering Information	Tube O.D.	
	mm	
SS-VBF-2M	2	
SS-VBF-3M	3	
SS-VBF-4M	4	
SS-VBF-6M	6	
SS-VBF-8M	8	
SS-VBF-10M	10	
SS-VBF-12M	12	
SS-VBF-14M	14	
SS-VBF-15M	15	
SS-VBF-16M	16	
SS-VBF-18M	18	
SS-VBF-20M	20	
SS-VBF-22M	22	
SS-VBF-25M	25	
SS-VBF-38M	38	
SS-VBF-50M	50	

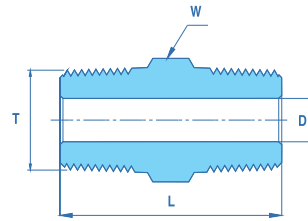
TUBE (INCH)		
Ordering Information	Tube O.D.	
	inch	mm
SS-VBF-01	1/16	1.58
SS-VBF-02	1/8	3.17
SS-VBF-03	3/16	4.76
SS-VBF-04	1/4	6.35
SS-VBF-05	5/16	7.93
SS-VBF-06	3/8	9.52
SS-VBF-08	1/2	12.70
SS-VBF-10	5/8	15.87
SS-VBF-12	3/4	19.05
SS-VBF-14	7/8	22.22
SS-VBF-16	1	25.40
SS-VBF-18	1-1/4	31.75
SS-VBF-24	1-1/2	38.10
SS-VBF-32	2	50.80

Close Nipple



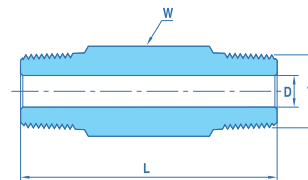
Ordering Information	T NPT (M)	D		L	
	inch	inch	mm	inch	mm
SS-VHD-M2	1/8	0.19	4.8	0.75	19.1
SS-VHD-M4	1/4	0.28	7.1	1.12	28.4
SS-VHD-M6	3/8	0.38	9.6	1.12	28.4
SS-VHD-M8	1/2	0.47	11.9	1.50	38.1
SS-VHD-M12	3/4	0.62	15.7	1.50	38.1
SS-VHD-M16	1	0.88	22.4	1.88	47.8

Hex Nipple



Ordering Information	T NPT (M)	L		D Min. Opening		W Hex. Flat
	inch	inch	mm	inch	mm	inch
SS-VAD-M1	1/16	1.01	25.7	0.12	3.0	5/16
SS-VAD-M2	1/8	1.01	25.7	0.19	4.8	7/16
SS-VAD-M4	1/4	1.40	35.6	0.28	7.1	9/16
SS-VAD-M6	3/8	1.43	36.3	0.38	9.6	11/16
SS-VAD-M8	1/2	1.84	46.7	0.47	11.9	7/8
SS-VAD-M12	3/4	1.84	46.7	0.62	15.8	1-1/16
SS-VAD-M16	1	2.32	58.9	0.87	22.1	1-3/8

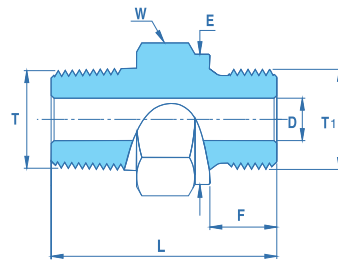
Hex Long Nipple



Ordering Information	T NPT (M)	L						D Min. Opening		W Hex. Flat
	inch	* 30mm	* 45mm	* 60mm	* 72mm	* 100mm	* 120mm	inch	mm	inch
SS-VAD-M2-M2-L*	1/8	√	√	√				0.19	4.8	7/16
SS-VAD-M4-M4-L*	1/4	√	√	√	√	√	√	0.28	7.1	9/16
SS-VAD-M6-M6-L*	3/8	√	√	√				0.38	9.6	1-1/16
SS-VAD-M8-M8-L*	1/2		√		√			0.47	11.9	7/8
SS-VAD-M12-M12-L*	3/4					√		0.62	15.8	1-1/16
SS-VAD-M16-M16-L*	1					√		0.88	22.4	1-3/8

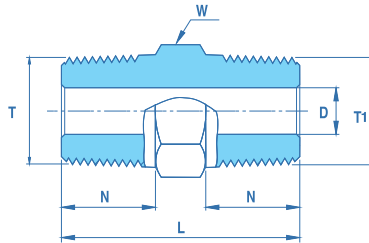
Instrument Pipe Fitting VAD Series

Hex Nipple NPT To BSPP



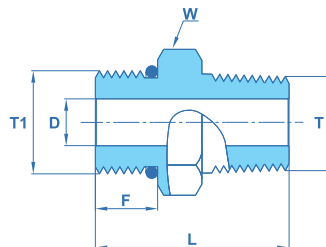
Ordering Information	T NPT (M)	T1 BSPP (M)	L		F		E		D Min. Opening		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch
SS-VAD-M2-MG2	1/8	1/8-28	1.07	27.7	0.28	8.1	0.54	13.8	0.16	4.1	9/16
SS-VAD-M4-MG4	1/4	1/4-19	1.44	36.8	0.44	11.9	0.71	18.0	0.23	5.8	3/4
SS-VAD-M6-MG6	3/8	3/8-19	1.47	37.3	0.44	11.9	0.85	21.8	0.31	7.9	7/8
SS-VAD-M8-MG8	1/2	1/2-14	1.78	44.5	0.56	14.2	1.02	26.0	0.47	11.9	1-1/16
SS-VAD-M12-MG12	3/4	3/4-14	1.95	49.0	0.62	15.7	1.26	32.0	0.62	15.8	1-5/16
SS-VAD-M16-MG16	1	1-11	2.26	56.6	0.72	18.3	1.53	39.0	0.78	19.8	1-5/8

Hex Nipple NPT To BSPT



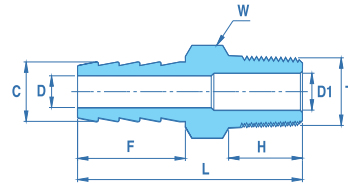
Ordering Information	T NPT (M)	T1 BSPT (M)	L		N		D Min. Opening		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch
SS-VAD-M2-R2	1/8	1/8-28	1.01	25.6	0.38	9.7	0.19	4.8	7/16
SS-VAD-M4-R4	1/4	1/4-19	1.40	35.6	0.56	14.2	0.28	7.1	9/16
SS-VAD-M6-R6	3/8	3/8-19	1.43	36.3	0.56	14.2	0.38	9.6	11/16
SS-VAD-M8-R8	1/2	1/2-14	1.84	46.7	0.75	19.0	0.47	11.9	7/8
SS-VAD-M12-R12	3/4	3/4-14	1.84	46.7	0.75	19.0	0.62	15.8	1-1/16
SS-VAD-M16-R16	1	1-11	2.32	58.9	0.94	23.9	0.87	22.1	1-3/8

Hex Nipple NPT To SAE/MS



Ordering Information	T NPT (M)	T1 Straight Thread UN	D		L		F		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch
SS-VAD-M4-MA4	1/4	7/16-20	0.20	5.1	1.20	30.5	0.36	9.1	9/16
SS-VAD-M6-MA6	3/8	9/16-18	0.28	7.1	1.26	32.0	0.39	9.9	1-1/16
SS-VAD-M8-MA8	1/2	3/4-16	0.42	10.7	1.53	38.9	0.44	11.2	7/8
SS-VAD-M12-MA12	3/4	1 1/16-12	0.62	15.7	1.75	44.4	0.59	15.0	1-1/4
SS-VAD-M16-MA16	1	1 5/16-12	0.88	22.4	2.00	50.8	0.59	15.0	1-1/2

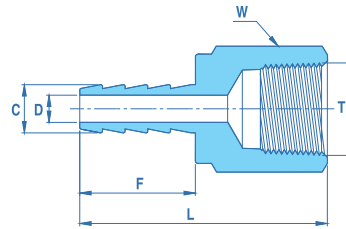
Male To Hose Connector



Ordering Information	Hose I. D.	T NPT (M)	C		D		D1		F		H		L		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
SS-VAD-M2-HC2	1/8	1/8	0.15	3.80	0.08	2.0	0.19	4.80	0.40	10.2	0.38	9.70	1.08	27.4	7/16
SS-VAD-M4-HC2	1/8	1/4	0.15	3.80	0.08	2.0	0.28	7.10	0.40	10.2	0.56	14.2	1.26	32.0	9/16
SS-VAD-M2-HC3	3/16	1/8	0.23	5.84	0.12	3.0	0.12	3.00	0.59	15.0	0.38	9.70	1.27	32.3	7/16
SS-VAD-M4-HC3	3/16	1/4	0.23	5.84	0.12	3.0	0.28	7.10	0.59	15.0	0.56	14.2	1.45	36.8	9/16
SS-VAD-M2-HC4	1/4	1/8	0.30	7.62	0.19	4.8	0.19	4.80	0.79	20.1	0.38	9.70	1.47	37.3	7/16
SS-VAD-M4-HC4	1/4	1/4	0.30	7.62	0.19	4.8	0.19	4.80	0.79	20.1	0.56	14.2	1.65	41.9	9/16
SS-VAD-M6-HC4	1/4	3/8	0.30	7.62	0.19	4.8	0.19	4.80	0.79	20.1	0.56	14.2	1.66	42.2	1-1/16
SS-VAD-M8-HC4	1/4	1/2	0.30	7.62	0.19	4.8	0.47	11.9	0.79	20.1	0.75	19.0	1.85	47.0	7/8
SS-VAD-M2-HC5	5/16	1/8	0.38	9.65	0.19	4.8	0.19	4.80	0.87	22.1	0.38	9.70	1.55	39.4	7/16
SS-VAD-M4-HC5	5/16	1/4	0.38	9.65	0.19	4.8	0.19	4.80	0.87	22.1	0.56	14.2	1.73	43.9	9/16
SS-VAD-M6-HC5	5/16	3/8	0.38	9.65	0.19	4.8	0.37	9.50	0.87	22.1	0.56	14.2	1.74	44.2	1-1/16
SS-VAD-M8-HC5	5/16	1/2	0.38	9.65	0.19	4.8	0.47	11.9	0.87	22.1	0.75	19.0	1.96	49.8	7/8
SS-VAD-M4-HC6	3/8	1/4	0.45	11.43	0.30	7.6	0.30	7.60	0.87	22.1	0.56	14.2	1.73	43.9	9/16
SS-VAD-M6-HC6	3/8	3/8	0.45	11.43	0.30	7.6	0.30	7.60	0.87	22.1	0.56	14.2	1.74	44.2	1-1/16
SS-VAD-M8-HC6	3/8	1/2	0.45	11.43	0.30	7.6	0.30	7.60	0.87	22.1	0.75	19.0	1.96	49.8	7/8
SS-VAD-M4-HC8	1/2	1/4	0.60	15.24	0.37	9.5	0.28	7.10	0.94	23.8	0.56	14.2	1.80	45.7	1-1/16
SS-VAD-M6-HC8	1/2	3/8	0.60	15.24	0.37	9.5	0.37	9.50	0.94	23.8	0.56	14.2	1.81	46.0	1-1/16
SS-VAD-M8-HC8	1/2	1/2	0.60	15.24	0.37	9.5	0.37	9.50	0.94	23.8	0.75	19.0	2.03	51.6	7/8
SS-VAD-M8-HC10	5/8	1/2	0.75	19.10	0.47	11.9	0.47	11.9	0.98	24.9	0.75	19.0	2.07	52.6	1-1/16
SS-VAD-M12-HC10	5/8	3/4	0.75	19.10	0.50	12.7	0.63	16.0	0.98	24.9	0.75	19.0	2.07	52.6	1-1/16
SS-VAD-M8-HC12	3/4	1/2	0.90	22.86	0.63	16.0	0.47	11.9	1.05	26.7	0.75	19.0	2.14	54.4	1-1/16
SS-VAD-M12-HC12	3/4	3/4	0.90	22.86	0.63	16.0	0.63	16.0	1.05	26.7	0.75	19.0	2.14	54.4	1-1/16
SS-VAD-M16-HC12	3/4	1	0.90	22.86	0.63	16.0	0.88	22.4	1.05	26.7	0.94	23.9	2.43	61.7	1-3/8
SS-VAD-M12-HC16	1	3/4	1.2	30.48	0.88	22.4	0.63	16.0	1.19	30.2	0.75	19.0	2.38	60.5	1-3/8
SS-VAD-M16-HC16	1	1	1.2	30.48	0.88	22.4	0.88	22.4	1.19	30.2	0.94	23.9	2.57	65.3	1-3/8

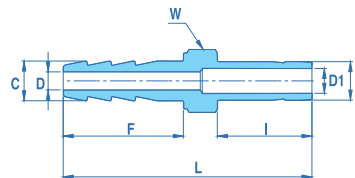
Instrument Pipe Fitting VAD / VOF Series

Female Hose Connector



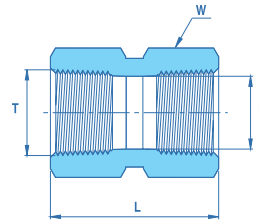
Ordering Information	Hose I. D.	T NPT	C		D		F		L		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch
SS-VAD-F2-HC2	1/8	1/8	0.15	3.80	0.08	2.00	0.40	10.2	1.11	28.2	9/16
SS-VAD-F4-HC2	1/8	1/4	0.15	3.80	0.08	2.00	0.40	10.2	1.26	32.0	3/4
SS-VAD-F2-HC3	3/16	1/8	0.23	5.84	0.12	3.00	0.59	15.0	1.29	32.8	9/16
SS-VAD-F4-HC3	3/16	1/4	0.23	5.84	0.12	3.00	0.59	15.0	1.44	36.6	3/4
SS-VAD-F2-HC4	1/4	1/8	0.30	7.62	0.19	4.80	0.79	20.1	1.47	37.3	9/16
SS-VAD-F4-HC4	1/4	1/4	0.30	7.62	0.19	4.80	0.79	20.1	1.64	41.7	3/4
SS-VAD-F6-HC4	1/4	3/8	0.30	7.62	0.19	4.80	0.79	20.1	1.71	43.4	7/8
SS-VAD-F4-HC5	5/16	1/4	0.38	9.65	0.19	4.80	0.87	22.1	1.73	43.9	3/4
SS-VAD-F6-HC5	5/16	3/8	0.38	9.65	0.19	4.80	0.87	22.1	1.82	46.2	7/8
SS-VAD-F4-HC6	3/8	1/4	0.45	11.43	0.30	7.60	0.87	22.1	1.69	42.9	3/4
SS-VAD-F6-HC6	3/8	3/8	0.45	11.43	0.30	7.60	0.87	22.1	1.78	45.2	7/8
SS-VAD-F8-HC6	3/8	1/2	0.45	11.43	0.30	7.60	0.87	22.1	2.03	51.6	1-1/16
SS-VAD-F8-HC8	1/2	1/2	0.60	15.24	0.38	9.70	0.94	23.9	2.13	54.1	1-1/16

Tube To Hose Connector



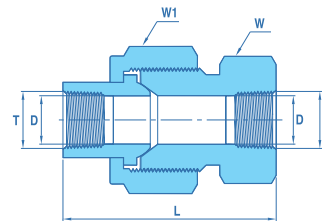
Ordering Information	Hose I. D.	B NPT	C		D		D1		F		H		L		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
SS-VOF-H02-02	1/8	1/8	0.15	3.80	0.08	2.00	0.08	2.00	0.40	10.2	0.53	13.5	1.35	34.3	5/16
SS-VOF-H02-04	1/8	1/4	0.15	3.80	0.08	2.00	0.17	4.20	0.40	10.2	0.62	15.7	1.44	36.6	3/8
SS-VOF-H04-04	1/4	1/4	0.30	7.62	0.19	4.80	0.17	4.20	0.79	20.1	0.62	15.7	1.83	46.5	7/16
SS-VOF-H04-06	1/4	3/8	0.30	7.62	0.19	4.80	0.27	6.85	0.79	20.1	0.69	17.5	1.90	48.3	7/16
SS-VOF-H04-6M	1/4	6mm	0.30	7.62	0.19	4.80	0.16	4.00	0.79	20.1	0.62	15.7	1.86	47.2	7/16
SS-VOF-H05-04	5/16	1/4	0.37	9.40	0.19	4.80	0.17	4.20	0.87	22.1	0.62	15.7	1.91	48.5	7/16
SS-VOF-H06-06	3/8	3/8	0.45	11.43	0.30	7.60	0.27	6.85	0.87	22.1	0.69	17.5	1.98	50.3	9/16
SS-VOF-H06-08	3/8	1/2	0.45	11.43	0.30	7.60	0.37	9.40	0.87	22.1	0.91	23.1	2.20	55.9	5/8
SS-VOF-H08-06	1/2	3/8	0.60	15.24	0.38	9.70	0.27	6.85	0.94	23.9	0.69	17.5	2.05	52.1	11/16
SS-VOF-H08-08	1/2	1/2	0.60	15.24	0.38	9.70	0.37	9.40	0.94	23.9	0.91	23.1	2.27	57.7	11/16
SS-VOF-H12-12	3/4	3/4	0.90	22.86	0.63	16.0	0.59	15.0	1.85	26.7	0.97	24.6	24.4	62.0	1-1/16

Hex Coupling



Ordering Information	T NPT(F)	L		D Min. Opening		W Hex. Flat
	inch	inch	mm	inch	mm	inch
SS-VAU-F2	1/8	0.81	20.6	0.31	8.6	9/16
SS-VAU-F4	1/4	1.19	30.2	0.41	11.4	3/4
SS-VAU-F6	3/8	1.31	33.3	0.56	15.0	7/8
SS-VAU-F8	1/2	1.56	39.6	0.69	18.5	1-1/16
SS-VAU-F12	3/4	1.62	41.1	0.90	23.9	1-5/16
SS-VAU-F16	1	2.00	50.8	1.13	29.7	1-5/8

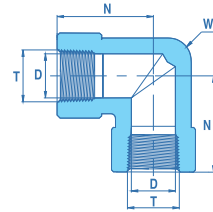
Union Ball Joint



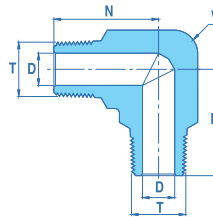
Ordering Information	T NPT(F)	L		D Min. Opening		W Hex. Flat		W1 Hex. Flat
	inch	inch	mm	inch	mm	inch	mm	inch
SS-VBJ-F2	1/8	1.81	46.0	0.27	6.9	15/16	23.81	1-1/8
SS-VBJ-F4	1/4	2.34	59.4	0.36	9.1	1-3/16	30.16	1-3/8
SS-VBJ-F6	3/8	2.50	63.5	0.52	13.2	1-5/16	33.34	1-1/2
SS-VBJ-F8	1/2	2.69	68.3	0.62	15.7	1-5/8	41.28	1-3/4
SS-VBJ-F12	3/4	3.12	79.2	0.87	22.1	1-7/8	47.63	2-1/8
SS-VBJ-F16	1	3.56	90.4	1.03	26.2	2-3/8	60.33	2-1/2

Instrument Pipe Fitting VAE Series

Elbow

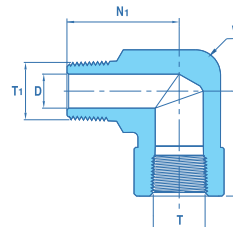


Ordering Information	T NPT(F)	N		D Min. Opening		W Hex. Flat
	inch	inch	mm	inch	mm	inch
SS-VAE-F2-F2	1/8	1.04	26.4	0.31	8.6	1/2
SS-VAE-F4-F4	1/4	1.17	29.7	0.41	11.4	11/16
SS-VAE-F6-F6	3/8	1.42	36.1	0.56	15.0	13/16
SS-VAE-F8-F8	1/2	1.56	39.6	0.69	18.5	1
SS-VAE-F12-F12	3/4	1.92	48.8	0.90	23.9	1-1/4
SS-VAE-F16-F16	1	1.91	48.5	1.13	29.7	1-11/16



Male Elbow

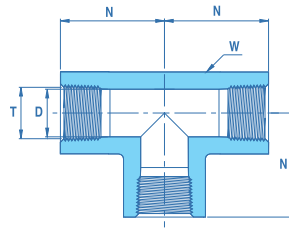
Ordering Information	T NPT(M)	N		D Min. Opening		W Hex. Flat
	inch	inch	mm	inch	mm	inch
SS-VAE-M2-M2	1/8	0.88	22.4	0.19	4.8	7/16
SS-VAE-M4-M4	1/4	1.05	26.7	0.28	7.1	1/2
SS-VAE-M6-M6	3/8	1.17	29.7	0.38	9.6	11/16
SS-VAE-M8-M8	1/2	1.45	36.8	0.47	11.9	13/16



Street Elbow

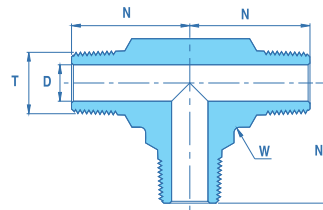
Ordering Information	T NPT(F)	T1 NPT(M)	N		N1		D Min. Opening		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch
SS-VAE-F1-M1	1/16	1/16	0.86	21.8	0.88	22.4	0.12	3.10	7/16
SS-VAE-F2-M1	1/8	1/16	1.04	26.4	0.87	22.1	0.12	3.10	1/2
SS-VAE-F2-M2	1/8	1/8	1.04	26.4	0.87	22.1	0.19	4.80	1/2
SS-VAE-F4-M2	1/4	1/8	1.17	29.7	1.00	25.4	0.19	4.80	11/16
SS-VAE-F4-M4	1/4	1/4	1.17	29.7	1.17	29.7	0.28	7.10	11/16
SS-VAE-F6-M4	3/8	1/4	1.42	36.1	1.26	32.0	0.28	7.10	13/16
SS-VAE-F6-M6	3/8	3/8	1.42	36.1	1.26	32.0	0.38	9.60	13/16
SS-VAE-F8-M4	1/2	1/4	1.56	39.6	1.38	35.1	0.28	7.10	1
SS-VAE-F8-M6	1/2	3/8	1.56	39.6	1.38	35.1	0.38	9.60	1
SS-VAE-F8-M8	1/2	1/2	1.56	39.6	1.56	39.6	0.47	11.9	1
SS-VAE-F12-M12	3/4	3/4	1.92	48.8	1.67	42.4	0.62	15.8	1-1/4
SS-VAE-F16-M16	1	1	1.83	48.5	1.94	49.3	0.86	22.4	1-11/16

Tee



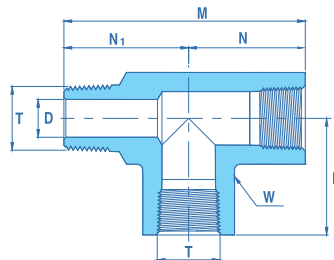
Ordering Information	T NPT(F)	N		D Min. Opening		W Hex. Flat
	inch	inch	mm	inch	mm	inch
SS-VAT-F2	1/8	1.04	26.4	0.31	8.6	1/2
SS-VAT-F4	1/4	1.17	29.7	0.41	11.4	11/16
SS-VAT-F6	3/8	1.42	36.1	0.56	15.0	13/16
SS-VAT-F8	1/2	1.56	39.6	0.69	18.5	1
SS-VAT-F12	3/4	1.92	48.8	0.90	23.9	1-1/4
SS-VAT-F16	1	1.91	48.5	1.13	29.7	1-11/16

Male Tee



Ordering Information	T NPT(M)	N		D Min. Opening		W Hex. Flat
	inch	inch	mm	inch	mm	inch
SS-VAT-M2	1/8	0.88	22.4	0.19	4.8	7/16
SS-VAT-M4	1/4	1.05	26.7	0.28	7.1	1/2
SS-VAT-M6	3/8	1.17	29.7	0.38	9.6	11/16
SS-VAT-M8	1/2	1.45	36.8	0.47	11.9	13/16

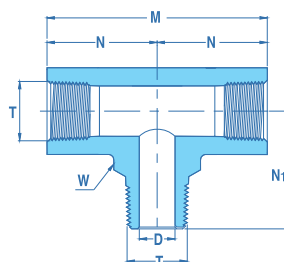
Street Tee



Ordering Information	T NPT(M/F)	M		N		N1		D Min. Opening		W Hex. Flat
	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch
SS-VAT-F2-M2-TF2	1/8	1.91	48.5	1.04	26.4	0.87	22.1	0.19	4.8	1/2
SS-VAT-F4-M4-TF4	1/4	2.34	59.4	1.17	29.7	1.17	29.7	0.28	7.1	11/16
SS-VAT-F6-M6-TF6	3/8	2.68	68.1	1.42	36.1	1.26	32.0	0.38	9.6	13/16
SS-VAT-F8-M8-TF8	1/2	3.12	79.2	1.56	39.6	1.56	39.6	0.47	11.9	1

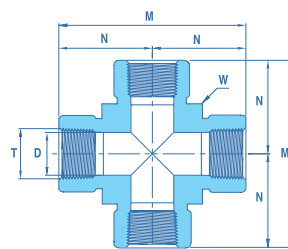
Instrument Pipe Fitting VAT / VAC Series

Branch Tee



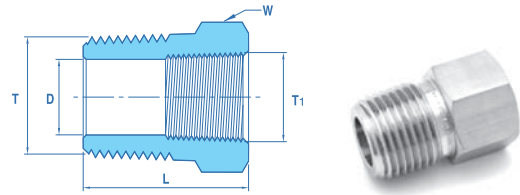
Ordering Information	T NPT(M/F)	M		N		N1		D		W Hex. Flat
	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch
SS-VAT-F2-TM2	1/8	2.08	52.8	1.04	26.4	0.87	22.1	0.19	4.8	1/2
SS-VAT-F4-TM4	1/4	2.34	59.4	1.17	29.7	1.17	29.7	0.28	7.1	11/16
SS-VAT-F6-TM6	3/8	2.84	72.1	1.42	36.1	1.26	32.0	0.38	9.6	13/16
SS-VAT-F8-TM8	1/2	3.12	79.2	1.56	39.6	1.56	39.6	0.47	11.9	1

Cross



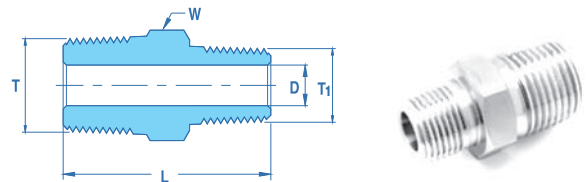
Ordering Information	T NPT(F)	N		M		D Min. Opening		W Hex. Flat
	inch	inch	mm	inch	mm	inch	mm	inch
SS-VAC-F2	1/8	1.04	26.4	2.08	52.8	0.31	8.6	1/2
SS-VAC-F4	1/4	1.17	29.7	2.34	59.4	0.41	11.4	11/16
SS-VAC-F6	3/8	1.42	36.1	2.84	72.2	0.56	15.0	13/16
SS-VAC-F8	1/2	1.56	39.6	3.12	79.2	0.69	18.5	1
SS-VAC-F12	3/4	1.92	48.8	3.84	97.6	0.90	23.9	1-1/4
SS-VAC-F16	1	1.91	48.5	3.82	97.0	1.13	29.7	1-11/16

Reducing Bushing



Ordering Information	T NPT(M)	T1 NPT(F)	L		D Min. Opening		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch
SS-VARU-M2-F1	1/8	1/16	1.03	26.2	0.19	4.8	7/16
SS-VARU-M4-F2	1/4	1/8	1.06	26.9	0.28	7.1	9/16
SS-VARU-M6-F2	3/8	1/8	0.86	21.8	0.34	8.6	11/16
SS-VARU-M6-F4	3/8	1/4	1.19	30.2	0.38	9.6	3/4
SS-VARU-M8-F2	1/2	1/8	1.08	27.4	0.34	8.6	7/8
SS-VARU-M8-F4	1/2	1/4	1.08	27.4	0.41	10.5	7/8
SS-VARU-M8-F6	1/2	3/8	1.41	35.8	0.47	11.9	7/8
SS-VARU-M12-F4	3/4	1/4	1.08	27.4	0.45	11.4	1-1/16
SS-VARU-M12-F6	3/4	3/8	1.08	27.4	0.56	14.2	1-1/16
SS-VARU-M12-F8	3/4	1/2	1.63	41.4	0.62	15.7	1-1/16
SS-VARU-M16-F4	1	1/4	1.37	34.8	0.41	10.5	1-3/8
SS-VARU-M16-F6	1	3/8	1.37	34.8	0.56	14.2	1-3/8
SS-VARU-M16-F8	1	1/2	1.37	34.8	0.69	17.4	1-3/8
SS-VARU-M16-F12	1	3/4	1.85	47.0	0.87	22.1	1-3/8

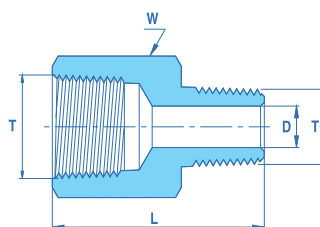
Reducing Nipple



Ordering Information	T NPT(M)	T1 NPT(M)	L		D Min. Opening		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch
SS-VAD-M2-M1	1/8	1/16	1.01	25.7	0.12	3.0	7/16
SS-VAD-M4-M2	1/4	1/8	1.22	31.0	0.19	4.8	9/16
SS-VAD-M6-M2	3/8	1/8	1.25	31.8	0.19	4.8	1-1/16
SS-VAD-M6-M4	3/8	1/4	1.43	36.3	0.28	7.1	1-1/16
SS-VAD-M8-M1	1/2	1/8	1.47	37.3	0.19	4.8	7/8
SS-VAD-M8-M4	1/2	1/4	1.65	41.9	0.28	7.1	7/8
SS-VAD-M8-M6	1/2	3/8	1.65	41.9	0.38	9.6	7/8
SS-VAD-M12-M4	3/4	1/4	1.65	41.9	0.28	7.1	1-1/16
SS-VAD-M12-M8	3/4	1/2	1.84	46.7	0.47	11.9	1-1/16
SS-VAD-M16-M8	1	1/2	2.13	54.1	0.47	11.9	1-3/8
SS-VAD-M16-M12	1	3/4	2.13	54.1	0.62	15.8	1-3/8

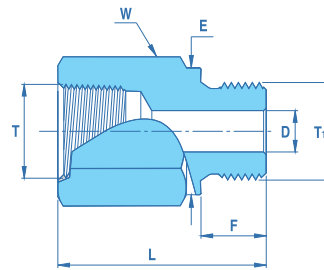
Instrument Pipe Fitting VAD Series

Adapter NPT



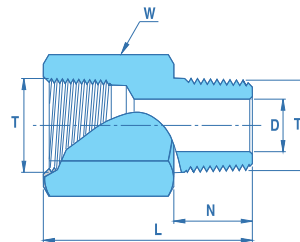
Ordering Information	T NPT(F)	T1 NPT(M)	L		D Min. Opening		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch
SS-VAD-F2-M1	1/8	1/16	1.09	27.7	0.12	3.0	9/16
SS-VAD-F2-M2	1/8	1/8	1.10	27.9	0.19	4.8	9/16
SS-VAD-F4-M2	1/4	1/8	1.26	32.0	0.19	4.8	3/4
SS-VAD-F4-M4	1/4	1/4	1.40	35.6	0.28	7.1	3/4
SS-VAD-F6-M2	3/8	1/8	1.33	33.8	0.19	4.8	7/8
SS-VAD-F6-M4	3/8	1/4	1.50	38.1	0.28	7.1	7/8
SS-VAD-F6-M6	3/8	3/8	1.51	38.4	0.38	9.6	7/8
SS-VAD-F8-M2	1/2	1/8	1.58	40.1	0.19	4.8	1-1/16
SS-VAD-F8-M4	1/2	1/4	1.76	44.7	0.28	7.1	1-1/16
SS-VAD-F8-M6	1/2	3/8	1.75	44.5	0.37	9.5	1-1/16
SS-VAD-F8-M8	1/2	1/2	1.94	49.3	0.47	11.9	1-1/16
SS-VAD-F12-M4	3/4	1/4	1.85	47.0	0.28	7.1	1-5/16
SS-VAD-F12-M6	3/4	3/8	1.82	46.2	0.37	9.5	1-5/16
SS-VAD-F12-M8	3/4	1/2	2.02	51.3	0.47	11.9	1-5/16
SS-VAD-F12-M12	3/4	3/4	2.02	51.3	0.62	15.8	1-5/16
SS-VAD-F16-M4	1	1/4	1.96	49.8	0.28	7.1	1-5/8
SS-VAD-F16-M8	1	1/2	2.16	54.9	0.47	11.9	1-5/8
SS-VAD-F16-M12	1	3/4	2.17	55.1	0.62	15.7	1-5/8
SS-VAD-F16-M16	1	1	2.28	57.9	0.86	21.8	1-5/8

Adapter NPT To BSPP



Ordering Information	T NPT(F)	T1 BSPP(M)	L		F		E Dia.		D Min. Opening		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch
SS-VAD-F2-MG2	1/8	1/8-28	0.99	25.1	0.28	7.1	0.54	13.8	0.16	4.1	9/16
SS-VAD-F4-MG4	1/4	1/4-19	1.32	33.5	0.44	11.2	0.70	18.0	0.23	5.8	3/4
SS-VAD-F6-MG6	3/8	3/8-19	1.41	35.8	0.44	11.2	0.85	21.8	0.31	7.9	7/8
SS-VAD-F8-MG8	1/2	1/2-14	1.74	44.2	0.56	14.2	1.02	26.0	0.47	11.9	1-1/16
SS-VAD-F12-MG12	3/4	3/4-14	1.89	48.0	0.62	15.7	1.26	32.0	0.62	15.7	1-5/16
SS-VAD-F16-MG16	1	1-11	2.10	53.3	0.72	18.3	1.53	39.0	0.78	19.8	1-5/8

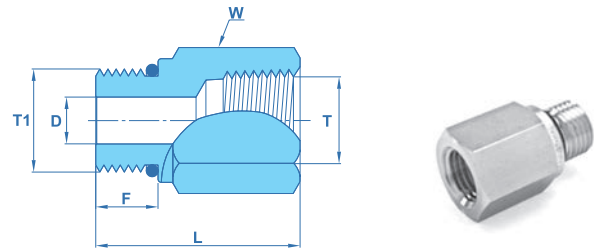
Adapter NPT To BSPT



Ordering Information	T NPT(F)	T1 BSPT(F)	L		N		D Min. Opening		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch
SS-VAD-F2-MR2	1/8	1/8-28	1.09	27.7	0.38	9.7	0.19	4.8	9/16
SS-VAD-F4-MR4	1/4	1/4-19	1.42	36.1	0.56	14.2	0.28	7.1	3/4
SS-VAD-F6-MR6	3/8	3/8-19	1.50	38.1	0.56	14.2	0.38	9.6	7/8
SS-VAD-F8-MR8	1/2	1/2-14	1.94	49.3	0.75	19.0	0.47	11.9	1-1/16
SS-VAD-F12-MR12	3/4	3/4-14	2.02	51.3	0.75	19.0	0.62	15.8	1-5/16
SS-VAD-F16-MR16	1	1-11	2.30	58.4	0.94	23.9	0.88	22.4	1-5/8

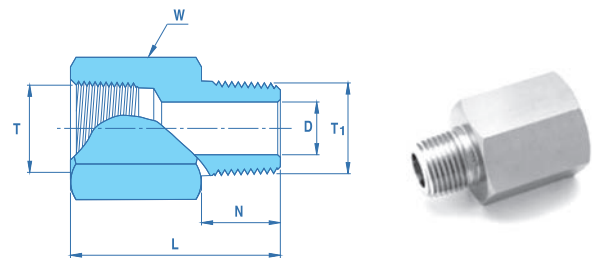
Instrument Pipe Fitting VAD Series

Adapter NPT To SAE / MS



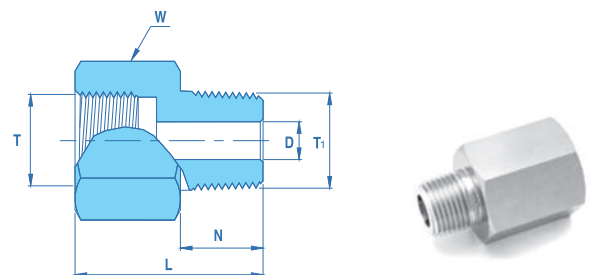
Ordering Information	T NPT(F)	T1 Straight Thread UN	D		L		F		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch
SS-VAD-F4-MA4	1/4	7/16-20	0.20	5.1	1.32	33.5	0.36	9.1	3/4
SS-VAD-F6-MA6	3/8	9/16-18	0.28	7.1	1.39	35.3	0.39	9.9	15/16
SS-VAD-F8-MA8	1/2	3/4-16	0.42	10.7	1.76	44.7	0.44	11.2	1-1/16
SS-VAD-F12-MA12	3/4	1-1/16-12	0.66	16.7	1.99	50.5	0.59	15.0	1-3/8
SS-VAD-F16-MA16	1	1-5/16-12	0.88	22.3	2.12	53.8	0.59	15.0	1-5/8

Adapter BSPT To NPT



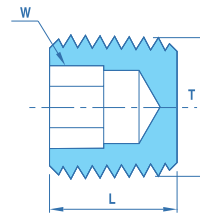
Ordering Information	T BSPT(F)	T1 NPT(M)	L		N		D Min. Opening		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch
SS-VAD-FR4-M4	1/4-19	1/4	1.43	36.3	0.56	14.2	0.28	7.1	3/4
SS-VAD-FR6-M6	3/8-19	3/8	1.51	38.4	0.56	14.2	0.38	9.6	7/8
SS-VAD-FR8-M8	1/2-14	1/2	1.96	49.8	0.75	19.0	0.47	11.9	1-1/16

Adapter Adapter BSPP To NPT



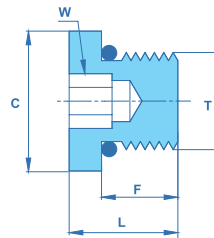
Ordering Information	T BSPP(F)	T1 NPT(M)	L		N		D Min. Opening		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch	mm	inch
SS-VAD-FG4-M4	1/4-19	1/4	1.19	30.2	0.56	14.2	0.22	5.6	3/4
SS-VAD-FG6-M6	3/8-19	3/8	1.27	32.3	0.56	14.2	0.26	6.6	15/16
SS-VAD-FG8-M8	1/2-14	1/2	1.65	41.9	0.75	19.0	0.28	7.1	1-1/16

Hollow Hex Plugs



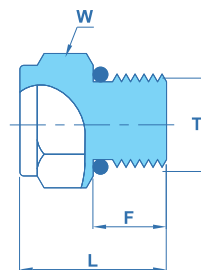
Ordering Information	T NPT(M)	L		W Hex. Flat
	inch	inch	mm	inch
SS-VHP-M2	1/8	0.29	7.4	3/16
SS-VHP-M4	1/4	0.44	11.3	1/4
SS-VHP-M6	3/8	0.44	11.3	5/16
SS-VHP-M8	1/2	0.61	15.5	3/8

Hollow Hex Plugs SAE / MS



Ordering Information	T Straight Thread UN	L		F		C		W Hex. Flat
	inch	inch	mm	inch	mm	inch	mm	inch
SS-VHP-A4	7/16-20	0.45	11.4	0.36	9.1	0.56	14.2	3/16
SS-VHP-A6	9/16-18	0.48	12.2	0.39	9.9	0.69	17.5	1/4
SS-VHP-A8	3/4-16	0.56	14.2	0.44	11.2	0.88	22.4	5/16

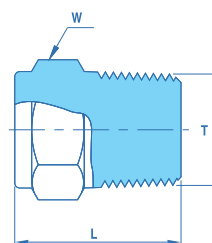
Hex Head Plug SAE / MS



Ordering Information	T Straight Thread UN	L		P		W Hex. Flat
	inch	inch	mm	inch	mm	inch
SS-VHPG-A2	5/16-24	0.70	17.8	0.30	7.6	7/16
SS-VHPG-A4	7/16-20	0.76	19.3	0.36	9.1	9/16
SS-VHPG-A6	9/16-18	0.82	20.8	0.39	9.9	1-1/16
SS-VHPG-A8	3/4-16	0.89	22.6	0.44	11.2	7/8
SS-VHPG-A12	1-1/16-12	1.12	28.4	0.59	15.0	1-1/4
SS-VHPG-A16	1-5/16-12	1.18	30.0	0.59	15.0	1-1/2

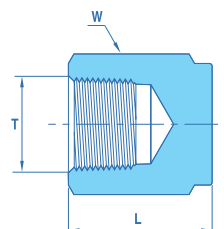
Instrument Pipe Fitting VHPG / VHC Series

Pipe Plug NPT



Ordering Information	T NPT(M)	L		W Hex. Flat
	inch	inch	mm	inch
SS-VHPG-M1	1/16	0.75	19.0	5/16
SS-VHPG-M2	1/8	0.75	19.0	7/16
SS-VHPG-M4	1/4	0.96	24.4	9/16
SS-VHPG-M6	3/8	0.99	25.2	11/16
SS-VHPG-M8	1/2	1.21	30.7	7/8
SS-VHPG-M12	3/4	1.21	30.7	1-1/16
SS-VHPG-M16	1	1.50	38.1	1-3/8

Pipe Plug NPT



Ordering Information	T NPT(F)	L		W Hex. Flat
	inch	inch	mm	inch
SS-VHC-F2	1/8	0.75	19.1	9/16
SS-VHC-F4	1/4	0.91	23.1	3/4
SS-VHC-F6	3/8	1.03	26.2	7/8
SS-VHC-F8	1/2	1.34	34.0	1-1/16
SS-VHC-F12	3/4	1.44	36.6	1-5/16
SS-VHC-F16	1	1.62	41.1	1-5/8

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