

General Information



Materials

Material	Ordering Number Designator	Specification
Glands, Bodies, and Nuts		
316L stainless steel	Standard	Bar stock: ASME SA479, ASTM A276 Forgings: ASME A182
316L secondary remelt stainless steel	-SLV	Bar stock: ASME SA479, ASTM A276 Forgings: ASME A182
Gaskets		
Nickel	-NI	ASTM B162
316L stainless steel	Standard	ASTM A240, ASTM A167

* The product is fabricated in compliance with the VS001A process specification

Dimensions

- Dimensions are for reference only and may change without prior notice
- The D1 dimension refers to the smallest nominal inside diameter of the part

Pressure Ratings

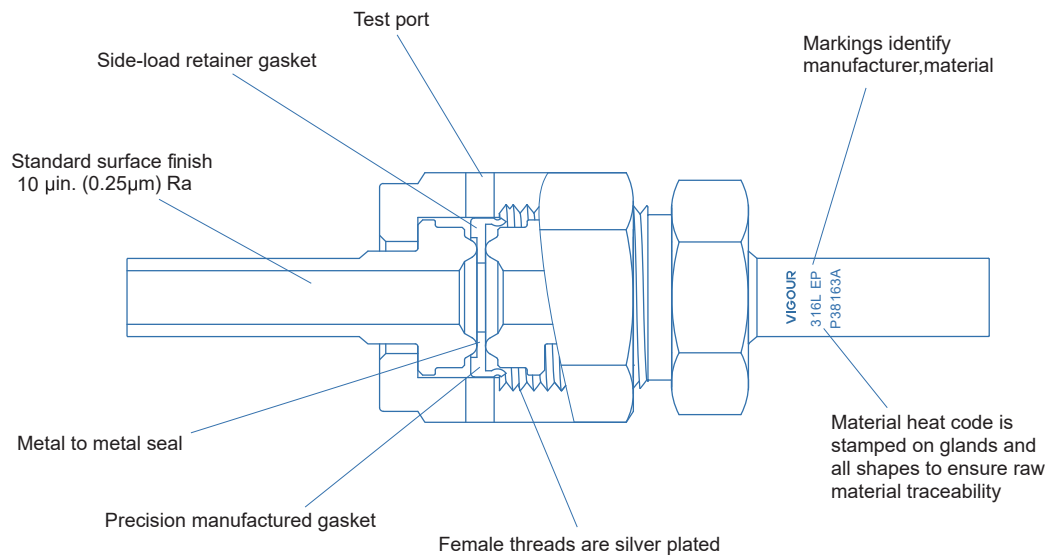
- Ratings are based upon tests conducted using VFS assemblies
- All ratings comply with calculations per ANSI Code for Pressure Piping B31.3
- To determine pressure ratings in accordance with ANSI B31.3, multiply psig rating by 0.94
- Ratings determined at ambient temperature

Components	Material	Temperature, °F (°C)
Fittings	316L stainless steel	1000 (537)
	316L secondary remelt stainless steel	1000 (537)
Gaskets	316L stainless steel	1000 (537)
	Nickel	600 (315)

Testing

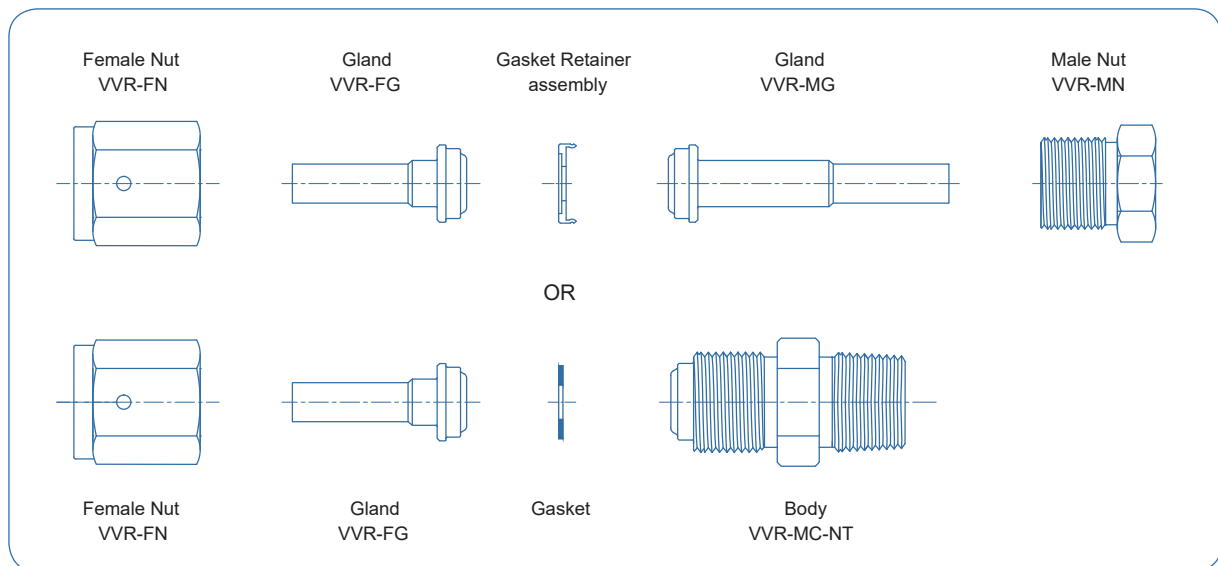
The VFS assembly with silver plating has been helium leak tested to a rate of 4×10^{-9} mbar l/s He and the unplated gasket to a rate of 4×10^{-11} mbar l/s He without leakage.



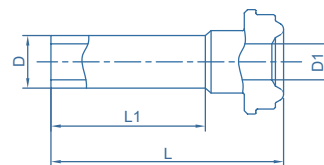


Typical VFS Assemblies

VFS assemblies are made up of four or five basic components.



Glands



Short Tube Butt Weld

D Tube OD in.	Wall Thickness in.	VFS Size in.	Material	Ordering Number	Dimensions, in.(mm)			Working Pressure psig (bar)
					L1	D1	L	
1/8	0.028	1/8	316L	VVR-FG2-TB2 ①	0.75	0.07	1.08	8500
			316L secondary remelt	VVR-FG2-TB2-SLV ①	(19.1)	(1.8)	(27.4)	(585)
1/4	0.035	1/4	316L	VVR-FG4-TB4	0.75	0.18	1.10	5100
			316L secondary remelt	VVR-FG4-TB4-SLV	(19.1)	(4.6)	(27.9)	(351)
1/4	0.035	1/4	316L	VVR-FG4-TB4-L18	0.38	0.18	0.72	5100
			316L secondary remelt	VVR-FG4-TB4-L18-SLV	(9.6)	(4.6)	(18.3)	(351)
1/4	0.035	1/4	316L	VVR-FG4-TB4-L15	0.25	0.18	0.60	5100
			316L secondary remelt	VVR-FG4-TB4-L15-SLV	(6.4)	(4.6)	(15.2)	(351)
1/4	0.035	1/2	316L	VVR-FG8-TB4	0.75	0.18	1.12	4300
			316L secondary remelt	VVR-FG8-TB4-SLV	(19.1)	(4.6)	(28.4)	(296)
1/4	0.035	1/2	316L	VVR-FG8-TB4-L15	0.25	0.18	0.62	4300
			316L secondary remelt	VVR-FG8-TB4-L15-SLV	(19.1)	(4.6)	(15.7)	(296)
1/4	0.035	1/2	316L	VVR-FG8-TB4-L19	0.75	0.18	0.76	4300
			316L secondary remelt	VVR-FG8-TB4-L19-SLV	(19.1)	(4.6)	(19.4)	(296)
3/8	0.035	1/2	316L	VVR-FG8-TB6	0.75	0.31	1.12	3300
			316L secondary remelt	VVR-FG8-TB6-SLV	(19.1)	(7.9)	(28.4)	(227)
3/8	0.035	1/2	316L	VVR-FG8-TB6-L15	0.25	0.31	0.62	3300
			316L secondary remelt	VVR-FG8-TB6-L15-SLV	(6.4)	(7.9)	(15.7)	(227)
1/2	0.049	1/2	316L	VVR-FG8-TB8	0.75	0.40	1.12	3700
			316L secondary remelt	VVR-FG8-TB8-SLV	(19.1)	(10.2)	(28.4)	(254)
1/2	0.049	1/2	316L	VVR-FG8-TB8-L18	0.38	0.40	0.74	3700
			316L secondary remelt	VVR-FG8-TB8-L18-SLV	(9.6)	(10.2)	(18.8)	(254)
1/2	0.049	1/2	316L	VVR-FG8-TB8-L15	0.25	0.40	0.62	3700
			316L secondary remelt	VVR-FG8-TB8-L15-SLV	(6.4)	(10.2)	(15.7)	(254)
3/4	0.065	3/4	316L	VVR-FG12-TB12	0.81	0.62	1.25	2400
			316L secondary remelt	VVR-FG12-TB12-SLV	(20.6)	(15.7)	(32)	(165)
1	0.065	1	316L	VVR-FG16-TB16	0.75	0.87	1.51	1900
			316L secondary remelt	VVR-FG16-TB16-SLV	(19.1)	(22.1)	(38.6)	(130)

① not design for gasket retainer assembly

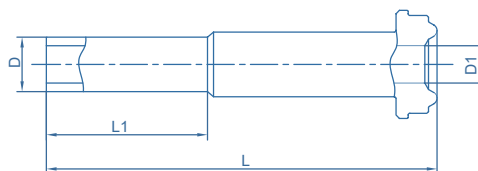
* To order fittings manufactured for Surface Finish Ra(Average) < 0.4 add BA to the ordering number. Example: VVR-FG4-TB4-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VVR-FG4-TB4-P



Glands

Long Tube Butt Weld



D Tube OD in.	Wall Thickness in.	VFS Size in.	Material	Ordering Number	Dimensions, in.(mm)			Working Pressure psig (bar)
					L1	D1	L	
1/8	0.028	1/8	316L	VVR-MG2-TB2 ①	0.75	0.07	1.42	8500
			316L secondary remelt	VVR-MG2-TB2-SLV ①	(19.1)	(1.8)	(36.1)	(585)
1/8	0.022	1/4	316L	VVR-MG4-TB2	0.28	0.18	1.31	6400
			316L secondary remelt	VVR-MG4-TB2-SLV	(7.1)	(4.6)	(33.3)	(440)
1/4	0.035	1/4	316L	VVR-MG4-TB4	0.75	0.18	1.70	5100
			316L secondary remelt	VVR-MG4-TB4-SLV	(19.1)	(4.6)	(43.2)	(351)
1/4	0.035	1/4	316L	VVR-MG4-TB4-L33	0.38	0.18	1.32	5100
			316L secondary remelt	VVR-MG4-TB4-L33-SLV	(9.6)	(4.6)	(33.5)	(351)
1/4	0.035	1/4	316L	VVR-MG4-TB4-L30	0.25	0.18	1.20	5100
			316L secondary remelt	VVR-MG4-TB4-L30-SLV	(6.4)	(4.6)	(30.5)	(351)
1/4	0.035	1/2	316L	VVR-MG8-TB4	0.75	0.18	1.79	4300
			316L secondary remelt	VVR-MG8-TB4-SLV	(19.1)	(4.6)	(45.5)	(296)
1/4	0.035	1/2	316L	VVR-MG8-TB4-L32	0.75	0.18	1.28	4300
			316L secondary remelt	VVR-MG8-TB4-L32-SLV	(19.1)	(4.6)	(32.7)	(296)
1/4	0.035	1/2	316L	VVR-MG8-TB4-L37	0.75	0.18	1.47	4300
			316L secondary remelt	VVR-MG8-TB4-L37-SLV	(19.1)	(4.6)	(37.4)	(296)
3/8	0.035	1/2	316L	VVR-MG8-TB6	0.75	0.31	1.79	3300
			316L secondary remelt	VVR-MG8-TB6-SLV	(19.1)	(7.9)	(45.5)	(227)
3/8	0.035	1/2	316L	VVR-MG8-TB6-L32	0.25	0.31	1.29	3300
			316L secondary remelt	VVR-MG8-TB6-L32-SLV	(6.4)	(7.9)	(32.8)	(227)
1/2	0.049	1/2	316L	VVR-MG8-TB8	0.75	0.40	1.79	3500
			316L secondary remelt	VVR-MG8-TB8-SLV	(19.1)	(10.2)	(45.5)	(241)
1/2	0.049	1/2	316L	VVR-MG8-TB8-L35	0.38	0.40	1.41	3500
			316L secondary remelt	VVR-MG8-TB8-L35-SLV	(9.6)	(10.2)	(35.8)	(241)
1/2	0.049	1/2	316L	VVR-MG8-TB8-L32	0.25	0.40	1.29	3500
			316L secondary remelt	VVR-MG8-TB8-L32-SLV	(6.4)	(10.2)	(32.8)	(241)
3/4	0.065	3/4	316L	VVR-MG12-TB12	0.75	0.65	2.03	2400
			316L secondary remelt	VVR-MG12-TB12-SLV	(19.1)	(16.5)	(51.6)	(165)
1	0.065	1	316L	VVR-MG16-TB16	0.75	0.87	2.32	2400
			316L secondary remelt	VVR-MG16-TB16-SLV	(19.1)	(22.1)	(58.9)	(165)

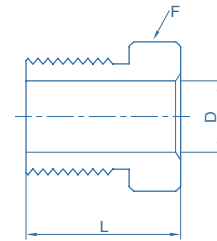
① not design for gasket retainer assembly

* To order fittings manufactured for Surface Finish Ra(Average)<0.4 add BA to the ordering number. Example: VVR-MG4-TB4-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VVR-MG4-TB4-P



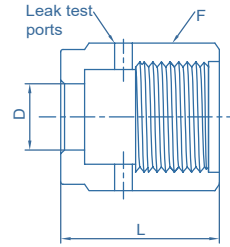
Male Nut



VFS Size in.	Ordering Number	Material	F Hex Flat	Dimensions, in.(mm)	
				L	D
1/8	VVR-MN2	316L	3/8	0.50 (12.7)	0.21 (5.3)
1/4	VVR-MN4		5/8	0.71 (18.0)	0.36 (9.1)
1/2	VVR-MN8		15/16	0.81 (20.6)	0.61 (15.5)
3/4	VVR-MN12		1-5/16	1.00 (25.4)	0.89 (22.6)
1	VVR-MN16		1-5/8	1.19 (30.2)	1.20 (30.5)

* Default process spec: VS001B.

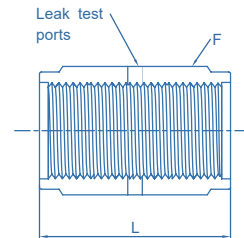
Female Nut



VFS Size in.	Ordering Number	Material	F Hex Flat	Dimensions, in.(mm)	
				L	D
1/8	VVR-FN2	316L	7/16	0.53 (13.5)	0.21 (5.3)
1/4	VVR-FN4		3/4	0.81 (20.6)	0.36 (9.1)
1/2	VVR-FN8		1-1/16	0.88 (22.4)	0.61 (15.5)
3/4	VVR-FN12		1-1/2	1.12 (28.4)	0.89 (22.6)
1	VVR-FN16		1-3/4	1.34 (34.0)	1.20 (30.5)

* Default process spec: VS001B.

Coupling

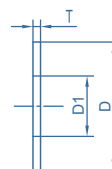


VFS Size in.	Material	Ordering Number	Dimensions, in.(mm)	
			L	F
1/8	316L	VVR-FU2	0.66 (16.8)	7/16
1/4		VVR-FU4	1.19 (30.2)	3/4
1/2		VVR-FU8	1.31 (33.3)	1-1/16
3/4		VVR-FU12	1.68 (42.7)	1-1/2
1		VVR-FU16	2.04 (51.8)	1-3/4

* Default process spec: VS001B.



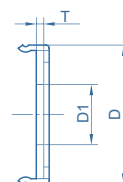
Gaskets



VFS Size in.	Ordering Number	Material	Dimensions, in.(mm)		
			D1	T	D
1/8	VVR-GK-G2	316L	0.09 (2.3)	0.028 (0.7)	0.26 (6.6)
	VVR-GK-G2-NI	Nickel			
1/4	VVR-GK-G4	316L	0.22 (5.6)	0.028 (0.7)	0.47 (11.9)
	VVR-GK-G4-NI	Nickel			
	VVR-GK-G4-SP	Silver-plated			
1/4	VVR-GK-G4-12.4	316L	0.22 (5.6)	0.028 (0.7)	0.48 (12.4)
	VVR-GK-G4-NI-12.4	Nickel			
1/2	VVR-GK-G8	316L	0.44 (11.2)	0.028 (0.7)	0.78 (19.8)
	VVR-GK-G8-NI	Nickel			
	VVR-GK-G8-SP	Silver-plated			
3/4	VVR-GK-G12	316L	0.66 (16.8)	0.028 (0.7)	1.14 (29.0)
	VVR-GK-G12-NI	Nickel			
1	VVR-GK-G16	316L	0.89 (22.6)	0.028 (0.7)	1.40 (35.6)
	VVR-GK-G16-NI	Nickel			

* Default process spec: VS001B.

Gasket Retainer Assembly

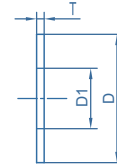


VFS Size in.	Ordering Number	Material	Dimensions, in.(mm)		
			D1	T	D
1/4	VVR-GKR-G4	316L	0.24 (6.1)	0.028 (0.7)	0.50 (12.7)
	VVR-GKR-G4-NI	Nickel			
	VVR-GKR-G4-SP	Silver-plated			
1/2	VVR-GKR-G8	316L	0.44 (11.2)	0.028 (0.7)	0.79 (20.1)
	VVR-GKR-G8-NI	Nickel			
	VVR-GKR-G8-SP	Silver-plated			
3/4	VVR-GKR-G12	316L	0.66 (16.8)	0.028 (0.7)	1.14 (29.0)
	VVR-GKR-G12-NI	Nickel			
1	VVR-GKR-G16	316L	0.89 (22.6)	0.028 (0.7)	1.40 (35.6)
	VVR-GKR-G16-NI	Nickel			

* Default process spec: VS001B.



Filter Gaskets

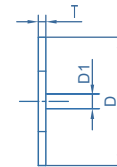


VFS Size in.	Ordering Number	Material	Dimensions, in.(mm)		
			D1	T	D
1/4	VVR-GKF-G4	316L	0.22 (5.6)	0.028 (0.7)	0.47 (11.9)
	VVR-GKRF-G4				
1/2	VVR-GKF-G8	316L	0.44 (11.2)	0.028 (0.7)	0.78 (19.8)
	VVR-GKRF-G8				

* Element Nominal Pore Size (Option) : 0.5µm / 2µm / 5µm / 10µm / 20µm / 60µm Ordering. Example: VVR-GKF-G4-0.5

* Default process spec: VS001B.

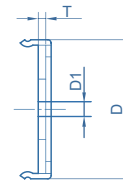
Flow-limiting Gaskets



VFS Size in.	Ordering Number	Material	Dimensions, in.(mm)		
			D1	T	D
1/8	VVR-GK-G2-DM-*	316L	*	0.028 (0.7)	0.26 (6.6)
	VVR-GK-G2-NI-DM-*	Nickel			
1/4	VVR-GK-G4-DM-*	316L	*	0.028 (0.7)	0.47 (11.9)
	VVR-GK-G4-NI-DM-*	Nickel			
1/2	VVR-GK-G8-DM-*	316L	*	0.028 (0.7)	0.78 (19.8)
	VVR-GK-G8-NI-DM-*	Nickel			
3/4	VVR-GK-G12-DM-*	316L	*	0.028 (0.7)	1.14 (29.0)
	VVR-GK-G12-NI-DM-*	Nickel			
1	VVR-GK-G16-DM-*	316L	*	0.028 (0.7)	1.40 (35.6)
	VVR-GK-G16-NI-DM-*	Nickel			

* Please consult the manufacturer for gasket size. * Default process spec: VS001B.

Flow-limiting Gaskets Retainer Assembly



VFS Size in.	Ordering Number	Material	Dimensions, in.(mm)		
			D1	T	D
1/4	VVR-GKR-G4-DM-*	316L	*	0.028 (0.7)	0.50 (12.7)
	VVR-GKR-G4-NI-DM-*	Nickel			
1/2	VVR-GKR-G8-DM-*	316L	*	0.028 (0.7)	0.79 (20.1)
	VVR-GKR-G8-NI-DM-*	Nickel			
3/4	VVR-GKR-G12-DM-*	316L	*	0.028 (0.7)	1.14 (29.0)
	VVR-GKR-G12-NI-DM-*	Nickel			
1	VVR-GKR-G16-DM-*	316L	*	0.028 (0.7)	1.40 (35.6)
	VVR-GKR-G16-NI-DM-*	Nickel			

* Please consult the manufacturer for gasket size. * Default process spec: VS001B.



Face Seal Fitting VVR Series

VIGOUR

Plug



VFS Size in.	Ordering Number	Corded Plug Ordering Number	Material	Dimensions, in.(mm)	
				F Hex Flat	L
1/8	VVR-P2 ^①		316L	3/8	0.68 (17.3)
1/4	VVR-P4 ^②	VVR-P4-L ^②		5/8	0.92 (23.4)
1/2	VVR-P8	VVR-P8-L		15/16	1.08 (27.4)
3/4	VVR-P12	VVR-P12-L		1-5/16	1.43 (36.3)
1	VVR-P16	VVR-P16-L		1-5/8	1.52 (38.6)

① Not designed for gasket retainer assembly.
 ② Also available as a rotatable plug. Ordering number: VVR-P8-R
 * Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number.
 Example: VVR-P4-P

Cap

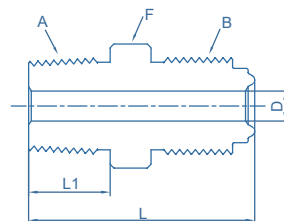


VFS Size in.	Ordering Number	Corded Plug Ordering Number	Material	F Hex Flat	Dimensions, in.(mm)	
					L	A
1/8	VVR-C2		316L	7/16	0.63 (16.0)	0.30 (7.6)
1/4	VVR-C4	VVR-C4-L		3/4	0.94 (23.9)	0.44 (11.2)
1/2	VVR-C8	VVR-C8-L		1-1/16	1.01 (25.6)	0.45 (11.4)
3/4	VVR-C12	VVR-C12-L		1-1/2	1.29 (32.8)	0.54 (13.7)
1	VVR-C16	VVR-C16-L		1-3/4	1.54 (39.1)	0.63 (16.0)

* Default process spec: VS001B.



Male NPT Connectors^①



A NPT Size in.	B VFS Size in.	Material	Ordering Number	Dimensions, in.(mm)				Working Pressure psig (bar)	
				L	L1	D	F	NI	SS
1/16	1/8	316L	VVR-MC2-M1 ^①	1.07 (27.2)	0.38 (9.6)	0.09 (2.3) ^③	3/8	9000 (620)	9000 (620)
1/8	1/8		VVR-MC2-M2 ^②	1.07 (27.2)	0.38 (9.6)	0.09 (2.3) ^③	7/16	9000 (620)	9000 (620)
1/8	1/4		VVR-MC4-M2	1.31 (33.3)	0.38 (9.6)	0.18 (4.6)	5/8	10000 (689)	6400 (440)
1/4	1/4		VVR-MC4-M4	1.49 (37.8)	0.56 (14.2)	0.18 (4.6)	5/8	10000 (689)	6400 (440)
1/4	1/2		VVR-MC8-M4	1.65 (41.9)	0.56 (14.2)	0.28 (7.1) ^③	15/16	4300 (296)	2800 (192)
3/8	1/2		VVR-MC8-M6	1.65 (41.9)	0.56 (14.2)	0.38 (9.6)	15/16	4300 (296)	2800 (192)
1/2	1/2		VVR-MC8-M8	1.84 (46.7)	0.75 (19.1)	0.4 (10.2)	15/16	4300 (296)	2800 (192)
3/4	3/4		VVR-MC12-M12	2.19 (55.6)	0.75 (19.1)	0.62 (15.7)	1-5/16	3700 (254)	2400 (165)
1	1		VVR-MC16-M16	2.47 (62.7)	0.94 (23.9)	0.87 (22.1)	1-5/8	2400 (165)	3000 (206)

① VFS components with fixed threads must remain stationary during installation.

These fitting connections should be assembled only to glands with rotating male or female threaded nuts.

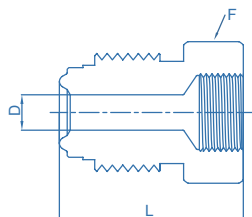
② Not designed for gasket retainer assembly

③ May contain internal diameter transitions

* To order fittings manufactured for Surface finish Ra(Average)<0.4 add BA to the ordering number. Example: VVR-MC4-M4-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VVR-MC4-M4-P

Female NPT Connectors^①



NPT Size in.	VFS Size in.	Material	Ordering Number	Dimensions, in.(mm)			Working Pressure psig (bar)	
				L	D	F flat	NI	SS
1/16	1/8	316L	VVR-MC2-F1 ^①	1.10 (27.9)	0.09 (2.3)	7/16	6700 (461)	6700 (461)
1/8	1/8		VVR-MC2-F2 ^②	1.19 (30.2)	0.09 (2.3)	9/16	6500 (447)	6500 (447)
1/8	1/4		VVR-MC4-F2	1.41 (35.8)	0.18 (4.6)	5/8	8000 (551)	8000 (551)
1/4	1/4		VVR-MC4-F4	1.54 (39.1)	0.18 (4.6)	3/4	6600 (454)	6600 (454)
3/8	1/2		VVR-MC8-F6	1.76 (44.7)	0.40 (10.2)	15/16	3500 (241)	4300 (296)
1/2	1/2		VVR-MC8-F8	1.99 (50.5)	0.40 (10.2)	1-1/16	3500 (241)	4300 (296)
3/4	3/4		VVR-MC12-F12	2.36 (59.9)	0.62 (15.7)	1-5/16	3000 (206)	3700 (254)
1	1		VVR-MC16-F16	2.51 (63.8)	0.87 (22.1)	1-5/8	2400 (165)	3000 (206)

① VFS components with fixed threads must remain stationary during installation.

These fitting connections should be assembled only to glands with rotating male or female threaded nuts.

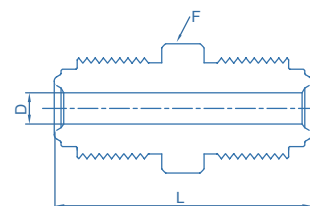
② Not designed for gasket retainer assembly

* To order fittings manufactured for Surface finish Ra(Average)<0.4 add BA to the ordering number. Example: VVR-MC4-F4-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VVR-MC4-F4-P



Male Union^①



VFS Size in.	Material	Ordering Number	Dimensions, in.(mm)			Working Pressure psig (bar)	
			L	D	F	NI	SS
1/8	316L	VVR-MU2 ^②	1.13 (28.7)	0.09 (2.3)	3/8	9000 (620)	11200 (771)
1/4		VVR-MU4	1.55 (39.4)	0.18 (4.6)	5/8	8000 (551)	10000 (689)
1/2		VVR-MU8	1.84 (46.7)	0.40 (10.2)	15/16	3500 (241)	4300 (296)
3/4		VVR-MU12	2.44 (62.0)	0.62 (15.7)	1-5/16	3000 (206)	3700 (254)
1		VVR-MU16	2.59 (65.8)	0.87 (22.1)	1-5/8	2400 (165)	3000 (206)

① VFS components with fixed threads must remain stationary during installation.

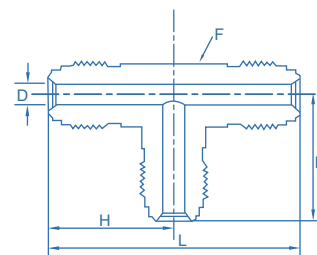
These fitting connections should be assembled only to glands with rotating male or female threaded nuts.

② Not designed for gasket retainer assembly

* To order fittings manufactured for Surface finish Ra(Average)<0.4 add BA to the ordering number. Example: VVR-MU4-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VVR-MU4-P

Male Union Tee



VFS Size in.	Material	Ordering Number	Dimensions, in.(mm)				Working Pressure psig (bar)	
			L	D	F	H	NI	SS
1/8	316L	VVR-MUT-2	1.78 (45.2)	0.09 (2.3)	7/16	0.89 (22.6)	9000 (620)	11200 (771)
1/4		VVR-MUT-4	2.14 (54.4)	0.18 (4.6)	1/2	1.07 (27.2)	8000 (551)	10000 (689)
1/2		VVR-MUT-8	2.90 (73.7)	0.40 (10.2)	13/16	1.45 (36.8)	3500 (241)	4300 (296)
3/4		VVR-MUT-12	3.84 (97.5)	0.62 (15.7)	1-1/4	1.92 (48.8)	3000 (206)	3700 (254)
1		VVR-MUT-16	4.00 (102)	0.87 (22.1)	1-11/16	2.00 (50.8)	2400 (165)	3000 (206)

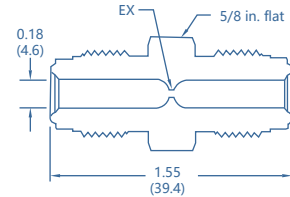
* To order fittings manufactured for Surface finish Ra(Average)<0.4 add BA to the ordering number. Example: VVR-MUT-4-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VVR-MUT-4-P



Flow Restrictors

- This product can be used in liquid or gas delivery systems where repeatable flow reduction or limiting is required.
- one piece, compact design saves space
- standard orifice sizes drilled through a 1/4 in. male VFS union
- no dead volume for clean operation



Tube Size in.	Ordering Number	Dimensions, in.(mm) EX	Working Pressure psig (bar)
1/4	VVR-MU4-DM-010	0.010 (0.254)	10000 (689)
	VVR-MU4-DM-012	0.012 (0.305)	
	VVR-MU4-DM-015	0.015 (0.381)	
	VVR-MU4-DM-017	0.017 (0.432)	
	VVR-MU4-DM-020	0.020 (0.508)	
	VVR-MU4-DM-023	0.023 (0.584)	
	VVR-MU4-DM-025	0.025 (0.635)	
	VVR-MU4-DM-026	0.026 (0.660)	
	VVR-MU4-DM-027	0.027 (0.686)	
	VVR-MU4-DM-030	0.030 (0.762)	
	VVR-MU4-DM-035	0.035 (0.889)	
	VVR-MU4-DM-040	0.040 (1.016)	

Tube Size in.	Ordering Number	Dimensions, in.(mm) EX	Working Pressure psig (bar)
1/4	VVR-MU4-DM-045	0.045 (1.143)	10000 (689)
	VVR-MU4-DM-050	0.050 (1.270)	
	VVR-MU4-DM-055	0.055 (1.397)	
	VVR-MU4-DM-060	0.060 (1.529)	
	VVR-MU4-DM-070	0.070 (1.778)	
	VVR-MU4-DM-075	0.075 (1.905)	
	VVR-MU4-DM-080	0.080 (2.032)	
	VVR-MU4-DM-085	0.085 (2.159)	
	VVR-MU4-DM-090	0.090 (2.286)	
	VVR-MU4-DM-093	0.093 (2.362)	
	VVR-MU4-DM-095	0.095 (2.413)	
	VVR-MU4-DM-100	0.100 (2.540)	

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VVR-MU4-DM-010-P

* The VFS component with fixed threads must be secured during the installation process and can only be connected to internally threaded pipes with rotating nuts.

* For custom metric-sized flow restrictor fittings, please contact the manufacturer.

Fitting Lock Device

This device is intended for use on VIGOUR VFS metal gasket face seal assemblies with standard male and female nuts.



Size in.	Material	Ordering Number
1/4	316L	VVR-FLD-4
1/2	316L	VVR-FLD-8



Size in.	Material	Matching product	Ordering Number
1/4	316L	VDV32	VVR-FLD-DV32-4
		VDV33	VVR-FLD-DV33-4
1/2	316L	VDV32	VVR-FLD-DV32-8

* Default process spec: VS001B.

