VF Vacuum Fittings



MAGNOX

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VF Vacuum Fittings

Features
特点

◎ Stainless steel construction, fluorocarbon FKM O-ring.
不锈钢结构，碳氟化合物 FKM O 形圈。
◎ Available in tube sizes from 1/16" to 1 1/2 ".
可用于 1/16 至 1 1/2 in.尺寸的卡套管。
◎ Temperature rating: -25 to 400°F (-31 to 204°C).
温度范围:-31℃至 204℃(25°F 至 400°F)。
◎ Knurled nut for easy, finger-tight assembly.
滚花螺母便于手紧装配。
◎ Reliable, repeatable sealing performance.
可靠、可重复的密封性能。

Testing
测试

◎ The VF vacuum fitting design has been helium leak tested to a maximum leak rate of 4×10^{-9} std cm^3/s at ambient temperature.
VF系列真空管接头设计经过氦气泄漏测试，室温下的最大泄漏率为 $4x10^{-9}$ std cm^3/s。
◎ The leak rate increases as temperature increases due to permeation through the O-ring.
由于通过 O 形圈的渗透，泄漏率随温度的升高而增大。

Cleaning and Packaging
清洁和包装

◎ VF vacuum fittings meet the requirements of MAGNOX Standard Cleaning and Packing.
VF 系列真空管接头遵循《MAGNOX 标准清洁和包装规范》。
◎ VF vacuum fittings are cleaned to remove machine oil, grease and loose particles.
VF 系列真空管接头经过清洁，去除了机油、油脂和自由颗粒。

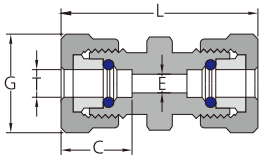
Ordering Information
订购信息

◎ The E dimension refers to the smallest nominal inside diameter of the part.
尺寸E代表零件最小公称内径值。
◎ To order straight fittings bored through, add -T to the ordering number.
Example: VF-U-4-T
预订购内孔直通接头，请在订购号中附加T。
示例:VF-U-4-T
◎ For pre-ordering full fluorine ether material sealing rings, please append "FF" in the order number.
Example: VF-U-4-FF
预订购全氟醚材质密封圈,请在订购号中附加FF
示例:VF-U-4-FF

Dimensions
尺寸

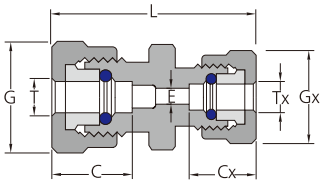
◎ Dimensions are for reference only and are subject to change.
尺寸仅供参考，如有变更，恕不另行通知。

Unions
联合接头



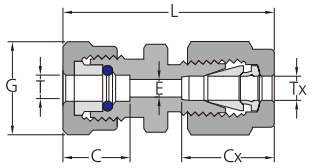
T-Tube O.D. (in.)	Ordering Number	Dimensions, mm			
		L	C	E	G
1/16	VF-U-1	31.2	10.9	1.3	3/8
1/8	VF-U-2	35.6	10.9	2.3	9/16
1/4	VF-U-4	41.4	15.7	4.6	11/16
3/8	VF-U-6	46.0	16.8	7.1	13/16
1/2	VF-U-8	46.7	20.3	10.2	15/16
5/8	VF-U-10	46.7	21.3	12.7	1 1/8
3/4	VF-U-12	52.1	23.9	15.7	1 1/4
1	VF-U-16	54.6	23.9	22.1	1 9/16
1 1/2	VF-U-24	57.6	23.9	35.1	2 1/16

Reducing Unions
变径联合接头



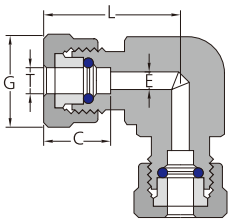
T-Tube O.D. (in.)	Tx-Tube O.D. (in.)	Ordering Number	Dimensions, mm					
			L	C	Cx	E	G	Gx
3/8	1/4	VF-RU-6-4	43.7	16.8	15.7	4.6	13/16	11/16
1/2		VF-RU-8-4	44.4	20.3			15/16	

Tube Fitting Unions
卡套管联合接头



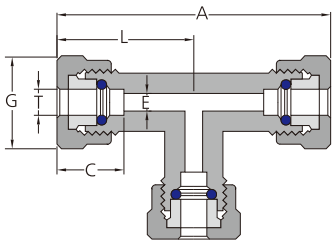
T-Tube O.D. (in.)	Tx-Tube O.D. (in.)	Ordering Number	Dimensions, mm				
			L	C	Cx	E	G
1/4	1/4	VF-TFU-U4-T4	42.2	15.7	15.2	4.6	11/16
3/8	3/8	VF-TFU-U6-T6	46.0	16.8	16.8	7.1	13/16
1/2	1/2	VF-TFU-U8-T8	49.5	20.3	22.9	10.2	15/16

Union Elbows
联合弯头



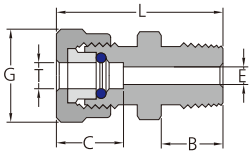
T-Tube O.D. (in.)	Ordering Number	Dimensions,mm			
		C	E	G	L
1/4	VF-UE-4	15.7	4.6	11/16	29.0
3/8	VF-UE-6	16.8	7.1	13/16	34.5
1/2	VF-UE-8	20.3	10.2	15/16	34.5

Union Tees
三通接头



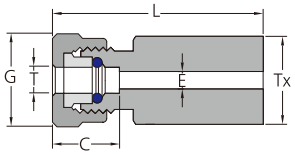
T-Tube O.D. (in.)	Ordering Number	Dimensions,mm				
		A	C	E	G	L
1/8	VF-UT-2	53.8	10.9	2.3	9/16	26.9
1/4	VF-UT-4	58.4	15.7	4.6	11/16	29.2
3/8	VF-UT-6	69.1	16.8	7.1	13/16	34.5
1/2	VF-UT-8	69.1	20.3	10.2	15/16	34.5
3/4	VF-UT-12	83.8	23.9	15.7	1 1/4	41.9
1	VF-UT-16	92.4	23.9	22.1	1 9/16	46.2

Male Connectors
阳螺纹接头



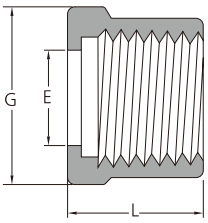
Tube O.D. (in.)	NPT size in.	Ordering Number	Dimensions, mm				
			L	B	C	E	G
1/16	1/8	VF-MC-U1-N2	28.4	9.6	10.9	1.3	3/8
1/8	1/8	VF-MC-U2-N2	31.0	9.6	10.9	2.3	9/16
1/4	1/8	VF-MC-U4-N2	34.3	9.6	15.7	4.6	11/16
	1/4	VF-MC-U4-N4	38.9	14.2			
3/8	1/8	VF-MC-U6-N2	36.6	9.6	16.8	4.6	13/16
	1/4	VF-MC-U6-N4	41.1	14.2		7.1	
1/2	3/8	VF-MC-U8-N6	41.9	14.2	20.3	10.2	15/16
	1/2	VF-MC-U8-N8	46.7	19.1			
3/4	3/4	VF-MC-U12-N12	49.8	19.1	23.9	15.7	1 1/4
1	1	VF-MC-U16-N16	57.2	23.9	23.9	22.1	1 9/16

Adapters
转换接头



T-Tube O.D. (in.)	Tx-Tube O.D. (in.)	Ordering Number	Dimensions, mm			
			L	C	E	G
1/16	1/4	VF-AM-U1-W2	28.4	10.9	1.3	3/8
1/8	1/4	VF-AM-U2-W2	30.5	10.9	2.3	9/16
	3/8	VF-AM-U2-W6	30.7			
1/4	1/4	VF-AM-U4-W4	34.0	15.7	4.6	11/16
	3/8	VF-AM-U4-W6	33.8			
	1/2	VF-AM-U4-W8	37.3			
3/8	3/8	VF-AM-U6-W6	37.3	16.8	7.1	13/16
	1/2	VF-AM-U6-W8	40.1			
1/2	5/8	VF-AM-U8-W10	41.7	20.3	10.2	15/16
	3/4	VF-AM-U8-W12	42.9			
3/4	1	VF-AM-U12-W16	45.2	23.9	15.7	1 1/4
1	1 1/4	VF-AM-U16-W20	45.7	23.9	22.1	1 9/16
1 1/2	1 1/2	VF-AM-U24-W24	50.3	23.9	31.8	2 1/16

Nuts
螺母



T-Tube O.D. (in.)	Ordering Number	Thread Size	Dimensions, mm		
			E	L	G
1/16	VF-N-1	1/4-20 UNC	1.8	9.6	3/8
1/8	VF-N-2	3/8-20 UN	3.3	10.4	9/16
1/4	VF-N-4	1/2-20 UNF	6.6	13.5	11/16
3/8	VF-N-6	5/8-20 UN	9.6	15.7	13/16
1/2	VF-N-8	3/4-20 UNEF	13.0	15.7	15/16
5/8	VF-N-10	15/16-20 UNEF	16.0	15.7	1 1/8
3/4	VF-N-12	1 1/16-20 UN	19.3	18.3	1 1/4
1	VF-N-16	1 3/8-20 UN	25.6	18.3	1 9/16
1 1/2	VF-N-24	1 7/8-20 UN	38.4	18.3	2 1/16

O-rings
O-形圈



T-Tube O.D. (in.)	Ordering Number	Material
1/16	VF-OR-1	70 durometer fluorocarbon FKM
1/8	VF-OR-2	
1/4	VF-OR-4	
3/8	VF-OR-6	
1/2	VF-OR-8	
5/8	VF-OR-10	
3/4	VF-OR-12	
1	VF-OR-16	
1 1/2	VF-OR-24	

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