VA Series Vacuum Adapter Fittings

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FG02040813

FITOK
Valves and Fittings

Contents

KF Adapter Fittings

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KF to Male NPT
KF to CF Flange Conical Reducing
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KF to CF Flange Straight Reducing
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KF to Vacuum Tube Fitting
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CF Adapter Fittings

CF to Female FR Metal Gasket Face Seal Fitting
CF to Vacuum Tube Fitting
CF to Rotatable Male FR Metal Gasket Face Seal Fitting
CF to Tube Fitting

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Other Adapter Fittings

BSPT Adapter

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Features

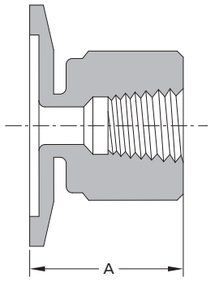
◎ Vacuum Range:
Copper Seal: ⩾10^{-12} Torr
Elastomeric Seal: ⩾10^{-8} Torr
◎ Working temperature:
Copper Seal: -325°F to 842°F (-200°C to 450°C)
Elastomeric Seal: -4°F to 302°F (-20°C to 150°C)
◎ Materials:
304, 304L, 316, 316L or Aluminum

Applications

Adapter Vacuum products are generally used on vacuum chamber ports to connect vacuum flanges to various fittings.

KF Adapter Fittings

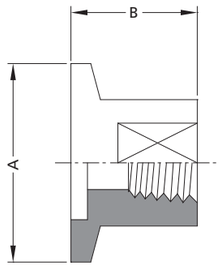
KF to Female NPT



A Type (Default)

Pipe Size in.	Flange Size	Basic Ordering Number (For A Type)	A in. (mm)
1/8	KF10	-VA-KF10-FNS2	0.92 (23.4)
	KF16	-VA-KF16-FNS2	
	KF25	-VA-KF25-FNS2	
	KF40	-VA-KF40-FNS2	
	KF50	-VA-KF50-FNS2	
1/4	KF10	-VA-KF10-FNS4	1.07 (27.2)
	KF16	-VA-KF16-FNS4	
	KF25	-VA-KF25-FNS4	
	KF40	-VA-KF40-FNS4	
	KF50	-VA-KF50-FNS4	
1/2	KF16	-VA-KF16-FNS8	1.44 (36.6)
	KF25	-VA-KF25-FNS8	1.39 (35.3)
	KF40	-VA-KF40-FNS8	
	KF50	-VA-KF50-FNS8	
3/4	KF25	-VA-KF25-FNS12	1.45 (36.8)
	KF40	-VA-KF40-FNS12	
	KF50	-VA-KF50-FNS12	
1	KF25	-VA-KF25-FNS16	1.57 (39.9)
	KF40	-VA-KF40-FNS16	
	KF50	-VA-KF50-FNS16	

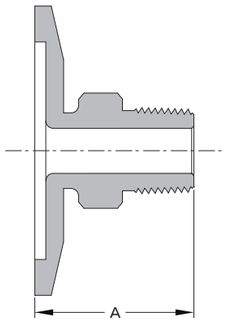
KF to Female NPT



B Type

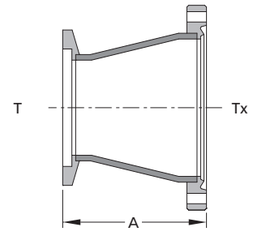
Pipe Size in.	Flange Size	Basic Ordering Number (For B Type)	A in.(mm)	B in.(mm)
1/8	KF10	-VA-KF10-FNS2-N	1.18(30.0)	0.75(19.1)
1/4		-VA-KF10-FNS4-N	1.18(30.0)	0.75(19.1)
1/8	KF16	-VA-KF16-FNS2-N	1.18(30.0)	0.75(19.1)
1/4		-VA-KF16-FNS4-N	1.18(30.0)	0.75(19.1)
1/8	KF25	-VA-KF25-FNS2-N	1.57(40.0)	0.75(19.1)
1/4		-VA-KF25-FNS4-N	1.57(40.0)	0.75(19.1)
1/2		-VA-KF25-FNS8-N	1.57(40.0)	1.00(25.4)
1/8	KF40	-VA-KF40-FNS2-N	2.17(55.0)	1.00(25.4)
1/4		-VA-KF40-FNS4-N	2.17(55.0)	1.00(25.4)
1/2		-VA-KF40-FNS8-N	2.17(55.0)	1.00(25.4)
3/4		-VA-KF40-FNS12-N	2.17(55.0)	1.00(25.4)
1/8	KF50	-VA-KF50-FNS2-N	2.92(75.0)	1.00(25.4)
1/4		-VA-KF50-FNS4-N	2.92(75.0)	1.00(25.4)
1/2		-VA-KF50-FNS8-N	2.92(75.0)	1.00(25.4)
3/4		-VA-KF50-FNS12-N	2.92(75.0)	1.00(25.4)

KF to Male NPT



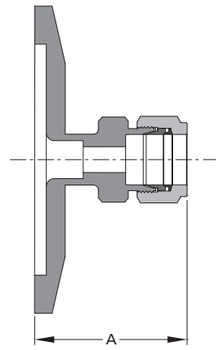
Pipe Size in.	Flange Size	Basic Ordering Number	A in.(mm)
1/8	KF10	-VA-KF10-NS2	0.89(22.6)
	KF16	-VA-KF16-NS2	
	KF25	-VA-KF25-NS2	
	KF40	-VA-KF40-NS2	
	KF50	-VA-KF50-NS2	
1/4	KF10	-VA-KF10-NS4	1.10(27.9)
	KF16	-VA-KF16-NS4	
	KF25	-VA-KF25-NS4	
	KF40	-VA-KF40-NS4	
	KF50	-VA-KF50-NS4	
1/2	KF16	-VA-KF16-NS8	1.35(34.3)
	KF25	-VA-KF25-NS8	
	KF40	-VA-KF40-NS8	
	KF50	-VA-KF50-NS8	
3/4	KF25	-VA-KF25-NS12	1.35(34.3)
	KF40	-VA-KF40-NS12	
	KF50	-VA-KF50-NS12	
1	KF25	-VA-KF25-NS16	1.64(41.7)
	KF40	-VA-KF40-NS16	
	KF50	-VA-KF50-NS16	

KF to CF Flange Conical Reducing



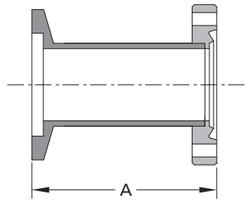
Flange Size	Tube OD in.		Basic Ordering Number	A in.(mm)
	T	Tx		
KF16-CF212	3/4	1/2	-VA-KF16-CF212-NCR	1.69(42.9)
KF16-CF275	3/4	1/2	-VA-KF16-CF275-NCR	2.73(69.3)
KF25-CF212	1	3/4	-VA-KF25-CF212-NCR	2.03(51.6)
KF25-CF275	1	3/4	-VA-KF25-CF275-NCR	2.73(69.3)
KF25-CF338	1	3/4	-VA-KF25-CF338-NCR	2.75(69.9)
KF40-CF133	1	3/4	-VA-KF40-CF133-NCR	3.03(77.0)
KF40-CF212	1 1/2	1	-VA-KF40-CF212-NCR	2.69(68.3)
KF40-CF338	1 1/2	1	-VA-KF40-CF338-NCR	2.75(69.9)
KF40-CF450	1 1/2	1	-VA-KF40-CF450-NCR	2.90(73.7)
KF40-CF462	1 1/2	1	-VA-KF40-CF462-NCR	4.06(103.1)
KF50-CF212	2	1	-VA-KF50-CF212-NCR	2.69(68.3)
KF50-CF275	2	1 1/2	-VA-KF50-CF275-NCR	2.73(69.3)
KF50-CF450	2	1 1/2	-VA-KF50-CF450-NCR	2.90(73.7)
KF50-CF462	2	1 1/2	-VA-KF50-CF462-NCR	4.06(103.1)
KF50-CF600	2	1 1/2	-VA-KF50-CF600-NCR	4.21(106.9)

KF to Tube Fitting



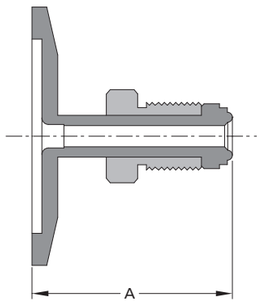
Tube OD in.	Flange Size	Basic Ordering Number	A in.(mm)
1/4	KF10	-VA-KF10-FL4	1.47(37.3)
	KF16	-VA-KF16-FL4	
	KF25	-VA-KF25-FL4	
	KF40	-VA-KF40-FL4	
	KF50	-VA-KF50-FL4	
3/8	KF10	-VA-KF10-FL6	1.63(41.4)
	KF16	-VA-KF16-FL6	
	KF25	-VA-KF25-FL6	
	KF40	-VA-KF40-FL6	
	KF50	-VA-KF50-FL6	
1/2	KF25	-VA-KF25-FL8	1.77(45.0)
	KF40	-VA-KF40-FL8	
	KF50	-VA-KF50-FL8	
3/4	KF25	-VA-KF25-FL12	2.14(54.4)
	KF40	-VA-KF40-FL12	
	KF50	-VA-KF50-FL12	
1	KF25	-VA-KF25-FL16	2.60(66.0)
	KF40	-VA-KF40-FL16	
	KF50	-VA-KF50-FL16	

KF to CF Flange Straight Reducing



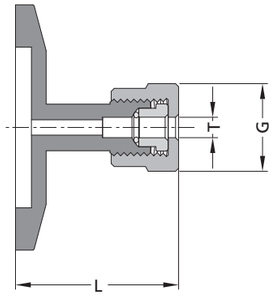
Flange Size	Tube OD in.	Basic Ordering Number	A in.(mm)
KF10-CF133	1/2	-VA-KF10-CF133-SR	1.75(44.5)
KF16-CF133	3/4	-VA-KF16-CF133-SR	1.75(44.5)
KF16-CF275	3/4	-VA-KF16-CF275-SR	1.78(45.2)
KF25-CF212	1	-VA-KF25-CF212-SR	1.75(44.5)
KF25-CF275	1	-VA-KF25-CF275-SR	1.78(45.2)
KF40-CF275	1 1/2	-VA-KF40-CF275-SR	1.78(45.2)
KF40-CF338	1 1/2	-VA-KF40-CF338-SR	1.80(45.7)
KF50-CF133	3/4	-VA-KF50-CF133-SR	1.95(49.5)
KF50-CF275	1 1/2	-VA-KF50-CF275-SR	1.95(49.5)
KF50-CF338	2	-VA-KF50-CF338-SR	1.80(45.7)
KF50-CF450	2	-VA-KF50-CF450-SR	1.95(49.5)

KF to Rotatable Male FR Metal Gasket Face Seal Fitting



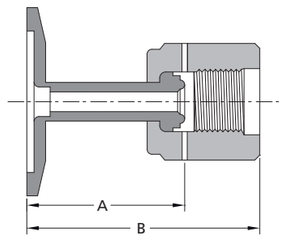
FR Size in.	Flange Size	Basic Ordering Number	A in.(mm)
1/4	KF10	-VA-KF10-RFR4	1.46(37.1)
	KF16	-VA-KF16-RFR4	
	KF25	-VA-KF25-RFR4	
	KF40	-VA-KF40-RFR4	
	KF50	-VA-KF50-RFR4	
3/8	KF16	-VA-KF16-RFR6	1.65(41.9)
	KF25	-VA-KF25-RFR6	1.55(39.4)
	KF40	-VA-KF40-RFR6	
	KF50	-VA-KF50-RFR6	
1/2	KF16	-VA-KF16-RFR8	1.65(41.9)
	KF25	-VA-KF25-RFR8	1.55(39.4)
	KF40	-VA-KF40-RFR8	
	KF50	-VA-KF50-RFR8	
3/4	KF25	-VA-KF25-RFR12	2.15(54.6)
	KF40	-VA-KF40-RFR12	2.05(52.1)
	KF50	-VA-KF50-RFR12	
1	KF25	-VA-KF25-RFR16	2.26(57.4)
	KF40	-VA-KF40-RFR16	
	KF50	-VA-KF50-RFR16	

KF to Vacuum Tube Fitting



T-Tube OD in.	Flange Size	Basic Ordering Number	L in.(mm)	G in.
1/4	KF10	-VA-KF10-VL4	1.48(37.6)	11/16
3/8		-VA-KF10-VL6	1.62(41.1)	13/16
1/4	KF16	-VA-KF16-VL4	1.48(37.6)	11/16
3/8		-VA-KF16-VL6	1.62(41.1)	13/16
1/2		-VA-KF16-VL8	1.79(45.5)	15/16
1/4	KF25	-VA-KF25-VL4	1.48(37.6)	11/16
3/8		-VA-KF25-VL6	1.62(41.1)	13/16
1/2		-VA-KF25-VL8	1.79(45.5)	15/16
3/4		-VA-KF25-VL12	1.93(49.0)	1 1/4
1/4	KF40	-VA-KF40-VL4	1.48(37.6)	11/16
3/8		-VA-KF40-VL6	1.62(41.1)	13/16
1/2		-VA-KF40-VL8	1.79(45.5)	15/16
3/4		-VA-KF40-VL12	1.93(49.0)	1 1/4
1		-VA-KF40-VL16	1.95(49.5)	1 9/16
1/4	KF50	-VA-KF50-VL4	1.48(37.6)	11/16
3/8		-VA-KF50-VL6	1.62(41.1)	13/16
1/2		-VA-KF50-VL8	1.79(45.5)	15/16
3/4		-VA-KF50-VL12	1.93(49.0)	1 1/4
1		-VA-KF50-VL16	1.95(49.5)	1 9/16

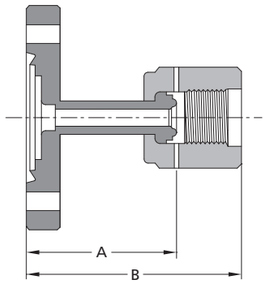
KF to Female FR Metal Gasket Face Seal Fitting



FR Size in.	Flange Size	Basic Ordering Number	Dimensions, in.(mm)	
			A	B
1/4	KF10	-VA-KF10-FFR4	1.46(37.1)	1.96(49.8)
	KF16	-VA-KF16-FFR4		
	KF25	-VA-KF25-FFR4		
	KF40	-VA-KF40-FFR4		
	KF50	-VA-KF50-FFR4		
1/2	KF16	-VA-KF16-FFR8	1.65(41.9)	2.21(56.1)
	KF25	-VA-KF25-FFR8		
	KF40	-VA-KF40-FFR8		
	KF50	-VA-KF50-FFR8		

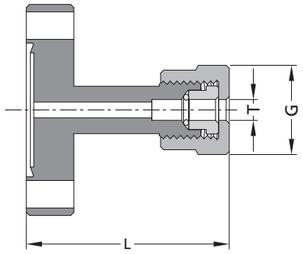
CF Adapter Fittings

CF to Female FR Metal Gasket Face Seal Fitting



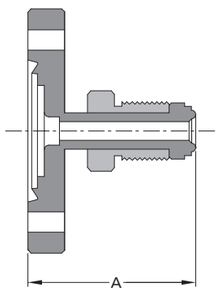
FR Size in.	Flange Size	Basic Ordering Number	Dimensions, in.(mm)	
			A	B
1/4	CF133	-VA-CF133-FFR4	1.36(34.5)	1.86(47.2)
1/2		-VA-CF133-FFR8	1.55(39.4)	2.11(53.6)
1/4	CF275	-VA-CF275-FFR4	1.36(34.5)	1.86(47.2)
1/2		-VA-CF275-FFR8	1.55(39.4)	2.11(53.6)

CF to Vacuum Tube Fitting



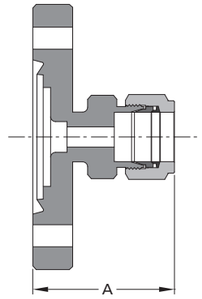
T-Tube OD in.	Flange Size	Basic Ordering Number	L in.(mm)	G in.
1/4	CF133	-VA-CF133-VL4	1.38(34.9)	11/16
3/8		-VA-CF133-VL6	1.38(34.9)	13/16
1/2		-VA-CF133-VL8	1.44(36.5)	15/16
5/8		-VA-CF133-VL10	1.69(42.9)	1 1/8
1/4	CF275	-VA-CF275-VL4	1.38(34.9)	11/16
3/8		-VA-CF275-VL6	1.38(34.9)	13/16
1/2		-VA-CF275-VL8	1.44(36.5)	15/16
5/8		-VA-CF275-VL10	1.75(44.5)	1 1/8
3/4		-VA-CF275-VL12	1.88(47.6)	1 1/4
1		-VA-CF275-VL16	2.13(54.0)	1 9/16

CF to Rotatable Male FR Metal Gasket Face Seal Fitting



FR Size in.	Flange Size	Basic Ordering Number	A in.(mm)
1/4	CF133	-VA-CF133-RFR4	1.36(34.5)
1/2		-VA-CF133-RFR8	1.55(39.4)
1/4	CF275	-VA-CF275-RFR4	1.36(34.5)
1/2		-VA-CF275-RFR8	1.55(39.4)

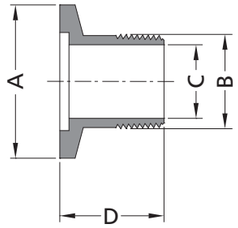
CF to Tube Fitting



Tube OD in.	Flange Size	Basic Ordering Number	A in.(mm)
1/4	CF133	-VA-CF133-FL4	1.37(34.8)
3/8		-VA-CF133-FL6	1.58(40.1)
1/4	CF275	-VA-CF275-FL4	1.57(39.9)
3/8		-VA-CF275-FL6	1.73(43.9)

Other Adapter Fittings

Male ISO Tapered Thread



Flange Size	Basic Ordering Number	A in.(mm)	B in.(mm)	C in.(mm)	D in.(mm)	BSPT
KF10	-VA-KF10-RT4	1.18(30.0)	0.52(13.16)	0.35(9.0)	1.18 (30.0)	1/4"×19 BSPT
	-VA-KF10-RT6	1.18(30.0)	0.66(16.66)	0.39(10.0)		3/8"×19 BSPT
KF16	-VA-KF16-RT8	1.18(30.0)	0.83(20.96)	0.63(16.0)		1/2"×14 BSPT
KF25	-VA-KF25-RT12	1.57(40.0)	1.04(26.44)	0.79(20.0)		3/4"×14 BSPT
	-VA-KF25-RT16	1.57(40.0)	1.31(33.25)	0.94(24.0)		1"×11 BSPT
KF40	-VA-KF40-RT20	2.17(55.0)	1.65(41.91)	1.38(35.0)		1 1/4"×11 BSPT
	-VA-KF40-RT24	2.17(55.0)	1.88(47.8)	1.61(41.0)		1 1/2"×11 BSPT
KF50	-VA-KF50-RT32	2.95(75.0)	2.35(59.61)	2.00(51.0)		2"×11 BSPT

◎ For details about fittings not listed, please contact us.
◎ The performance of the adapter fitting is determined by the lower performing end connection.