

SEC 12 – 700 Series Standard Vacuum Fittings

No Port Flanges
KF Flanges
ISO Flanges
ANSI Flanges
CF-F Port Models

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CF-F.....	29
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Elbows, 90° Radius & Mitered

ANSI (Radius & Mitered)	19
CF-F (Radius & Mitered)	27
ISO (Mitered)	14
KF (Radius)	10
No Port (Radius)	2

Flexible Hoses

CF-F	32, 33
KF	32
NO Port	31

Nipples, Adapter

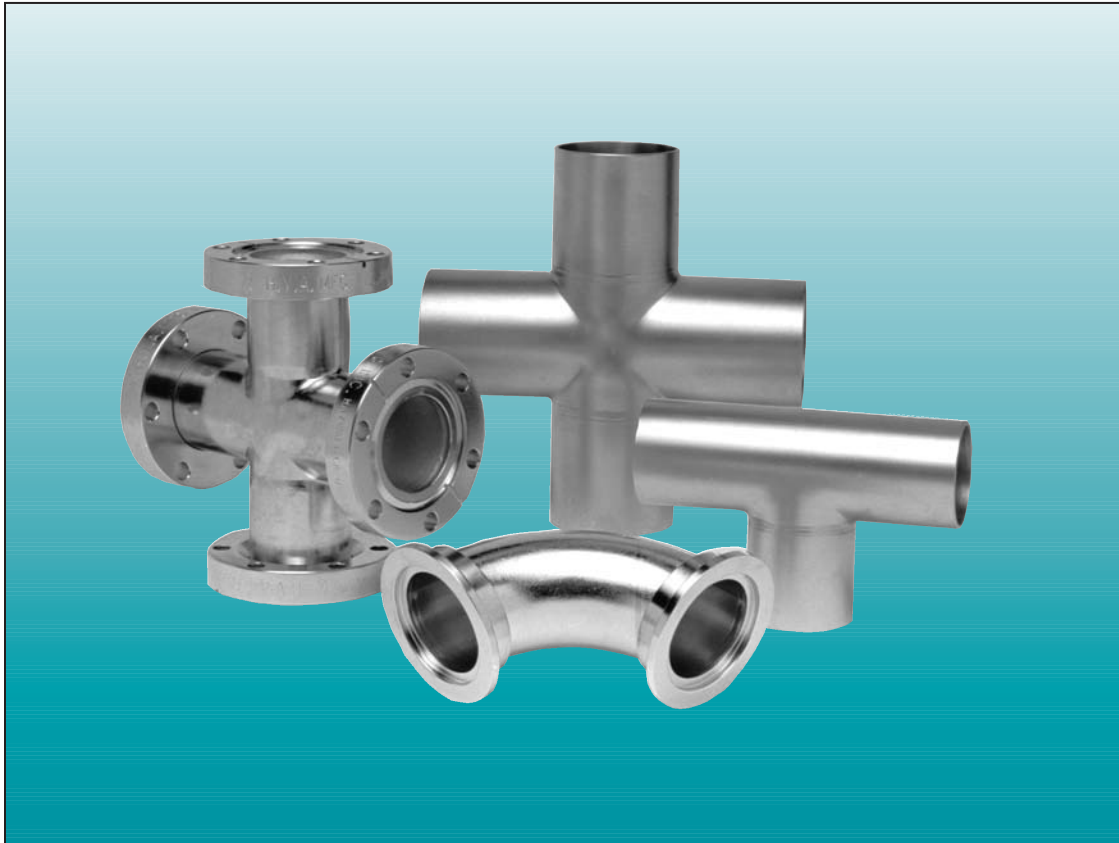
ANSI	17, 18
CF-F	22-26
ISO	12-14
KF	5-9

Tees

ANSI	20
CF-F	27
ISO	15
KF	10
No Port	2

Tubing	34
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Quick Disconnects	30
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700 SERIES

FITTINGS

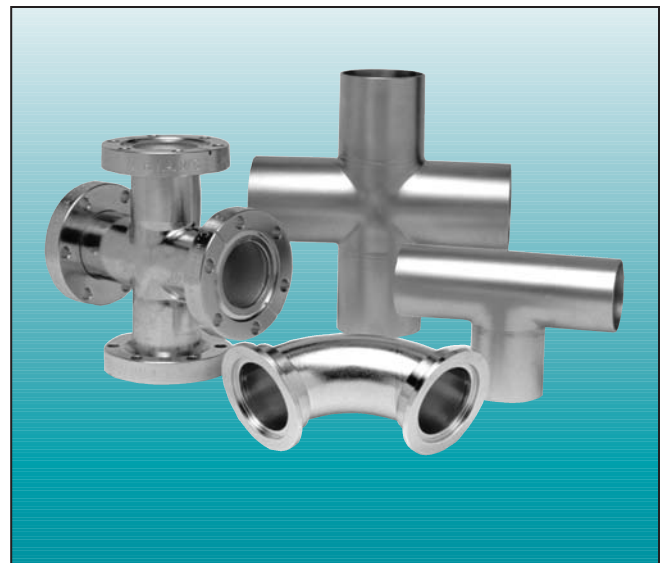
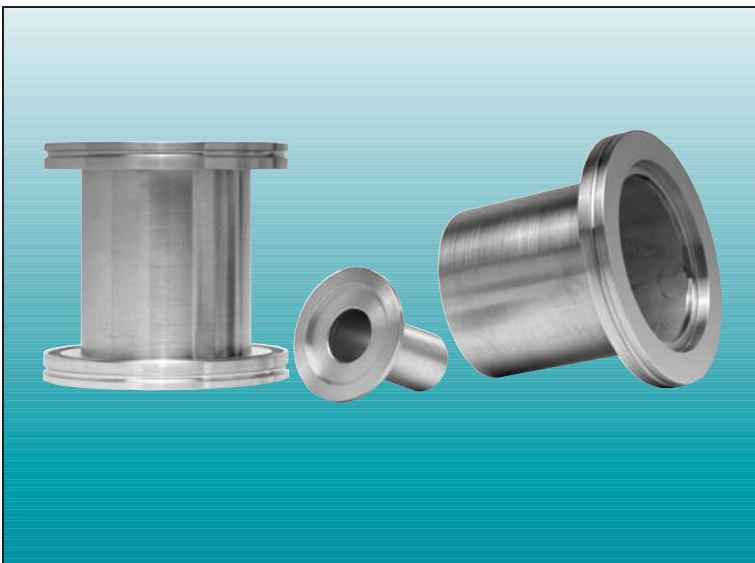
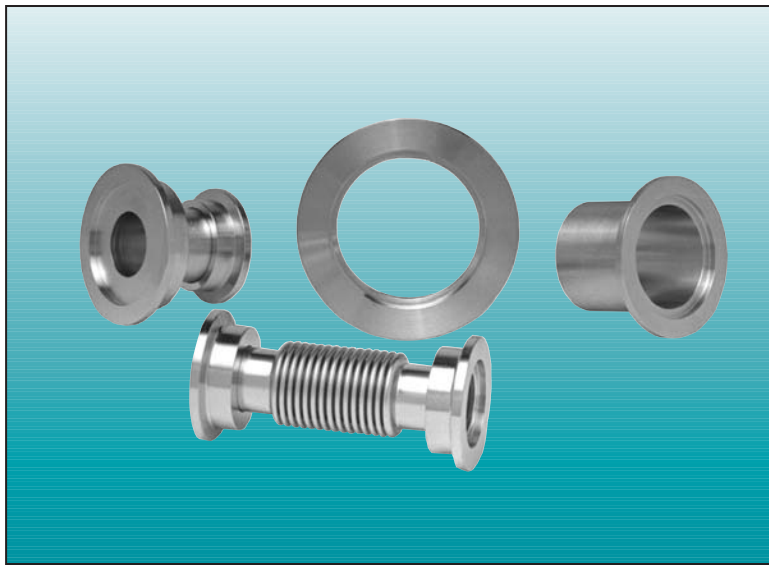


HIGH VACUUM APPARATUS MANUFACTURING.,INC.

1763 Sabre St., Hayward, CA 94545; Tel. (510)785-2744; Fax (510)732-9853

700 Series Stainless Steel Vacuum Fittings

HVA offers a complete range of vacuum fittings available with No Port flanges or with flange configurations of KF-ISO, ANSI and CF-F. Fittings are constructed of 304 stainless steel and are electropolished. Bakeable from 200°C up to 500°C. Special sizes available upon request.



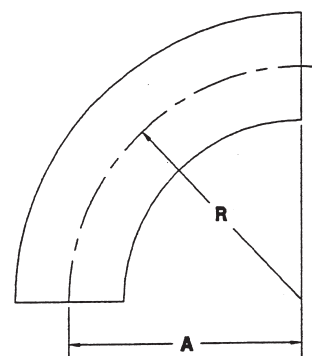
700 Series Standard Vacuum Fittings

NO PORT FLANGE MODELS

Elbows & Tees

90° RADIUS ELBOWS

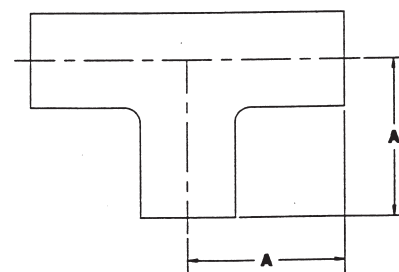
MODEL NUMBER	TUBE O.D.		A	R	WALL THICKNESS
750-0005	13 .500	mm. inch	19 .750	20 .75	.049
750-0007	19 .750	mm. inch	25 1.00	25 1.00	.035
750-0010	25 1.00	mm. inch	38 1.50	38 1.50	.065
750-0015	38 1.50	mm. inch	57 2.25	57 2.25	.065
750-0020	50 2.00	mm. inch	76 3.00	76 3.00	.065
750-0025	63 2.50	mm. inch	95 3.75	95 3.75	.065
750-0030	76 3.00	mm. inch	114 4.50	114 4.50	.065
750-0040	102 4.00	mm. inch	152 6.00	152 6.00	.083
750-0060	152 6.00	mm. inch	229 9.00	229 9.00	.083



ELBOWS

TEES

MODEL NUMBER	TUBE O.D.		A	WALL THICKNESS
755-0005	13 .500	mm. inch	19 .750	.049
755-0007	19 .750	mm. inch	25 1.00	.035
755-0010	25 1.00	mm. inch	48 1.88	.065
755-0015	38 1.50	mm. inch	57 2.25	.065
755-0020	50 2.00	mm. inch	76 3.00	.065
755-0025	63 2.50	mm. inch	76 3.00	.065
755-0030	76 3.00	mm. inch	83 3.25	.065
755-0040	102 4.00	mm. inch	99 3.88	.083
755-0050	127 5.00	mm. inch	108 4.25	.083
755-0060	152 6.00	mm. inch	127 5.00	.083
755-0080	203 8.00	mm. inch	178 7.00	.120
755-0100	254 10.00	mm. inch	241 9.50	.120



TEES

Due to ongoing product development, prices/dimensions subject to change without notice.

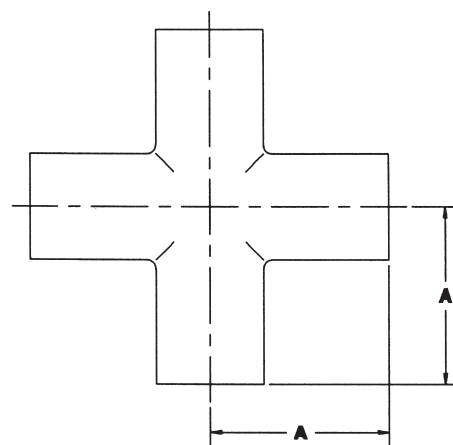
700 Series Standard Vacuum Fittings

NO PORT FLANGE MODELS

4-WAY CROSSES

Crosses

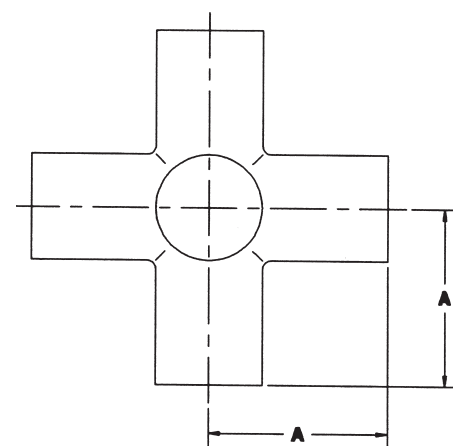
MODEL NUMBER	TUBE O.D.		A	WALL THICKNESS
760-0005	13 .500	mm. inch	19 .750	.049
760-0007	19 .750	mm. inch	25 1.00	.035
760-0010	25 1.00	mm. inch	48 1.88	.065
760-0015	38 1.50	mm. inch	57 2.25	.065
760-0020	50 2.00	mm. inch	76 3.00	.065
760-0025	63 2.50	mm. inch	76 3.00	.065
760-0030	76 3.00	mm. inch	83 3.25	.065
760-0040	102 4.00	mm. inch	99 3.88	.083
760-0050	127 5.00	mm. inch	108 4.25	.083
760-0060	152 6.00	mm. inch	127 5.00	.083
760-0080	203 8.00	mm. inch	178 7.00	.120
760-0100	254 10.00	mm. inch	241 9.50	.120



4-WAY CROSSES

5-WAY CROSSES

MODEL NUMBER	TUBE O.D.		A	WALL THICKNESS
765-0007	19 .750	mm. inch	25 1.00	.035
765-0010	25 1.00	mm. inch	48 1.88	.065
765-0015	38 1.50	mm. inch	57 2.25	.065
765-0020	50 2.00	mm. inch	76 3.00	.065
765-0025	63 2.50	mm. inch	76 3.00	.065
765-0030	76 3.00	mm. inch	83 3.25	.065
765-0040	102 4.00	mm. inch	99 3.88	.083
765-0050	127 5.00	mm. inch	108 4.25	.083
765-0060	152 6.00	mm. inch	127 5.00	.083
765-0080	203 8.00	mm. inch	178 7.00	.120
765-0100	254 10.00	mm. inch	241 9.50	.120



5-WAY CROSSES

“A” Same for 5th leg.

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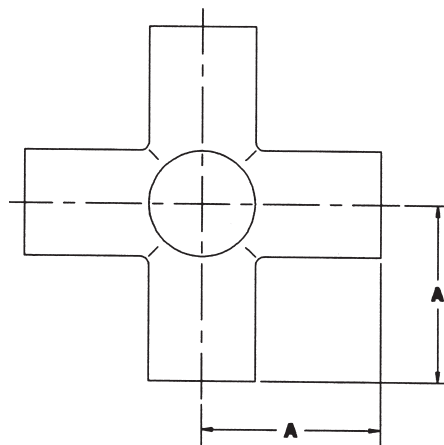
700 Series Standard Vacuum Fittings

NO PORT FLANGE MODELS

Crosses . . . *continued*

6-WAY CROSSES

MODEL NUMBER	TUBE O.D.		A	WALL THICKNESS
770-0007	19 .750	mm. inch	25 1.00	.035
770-0010	25 1.00	mm. inch	48 1.88	.065
770-0015	38 1.50	mm. inch	57 2.25	.065
770-0020	50 2.00	mm. inch	76 3.00	.065
770-0025	63 2.50	mm. inch	76 3.00	.065
770-0030	76 3.00	mm. inch	83 3.25	.065
770-0040	102 4.00	mm. inch	99 3.88	.083
770-0050	127 5.00	mm. inch	108 4.25	.083
770-0060	152 6.00	mm. inch	127 5.00	.083
770-0080	203 8.00	mm. inch	178 7.00	.120
770-0100	254 10.00	mm. inch	241 9.50	.120



6-WAY CROSSES

“A” Same for 5th 6th leg.

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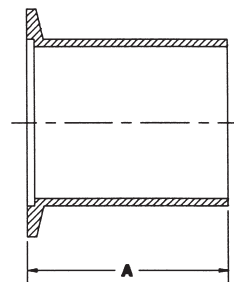
700 Series Standard Vacuum Fittings

KF PORT FLANGE MODELS

Nipples

HALF NIPPLES

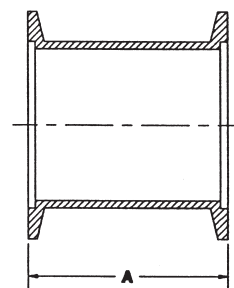
MODEL NUMBER	TUBE O.D.		A	FLANGE REF
745-0161	13 .500	mm. inch	32 1.25	KF 10
745-0160	19 .750	mm. inch	29 1.15	KF 16
745-0250	25 1.00	mm. inch	52 2.03	KF 25
745-0400	38 1.50	mm. inch	61 2.40	KF 40
745-0500	50 2.00	mm. inch	80 3.15	KF 50



KF PORT FLANGE

FULL NIPPLES

MODEL NUMBER	TUBE O.D.		A	FLANGE REF
740-0161	13 .500	mm. inch	63 2.50	KF 10
740-0160	19 .750	mm. inch	58 2.30	KF 16
740-0250	25 1.00	mm. inch	103 4.06	KF 25
740-0400	38 1.50	mm. inch	122 4.80	KF 40
740-0500	50 2.00	mm. inch	160 6.30	KF 50



KF PORT FLANGE

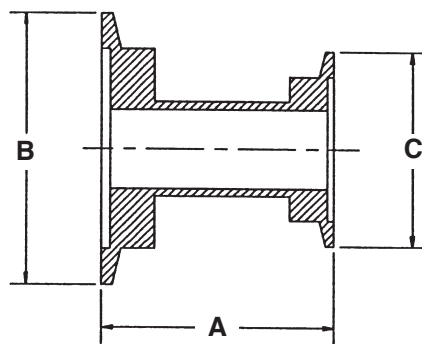
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700 Series Standard Vacuum Fittings

KF PORT FLANGE MODELS

Reducing Nipples

MODEL NUMBER		A	B FLANGE SIZE	C FLANGE SIZE	TUBE O.D.
741-2501	mm. inch	36 1.40	KF 25	KF 10	13 .500
741-2502	mm. inch	33 1.30	KF 25	KF 16	19 .750
741-4001	mm. inch	36 1.40	KF40	KF 10	13 .500
741-4002	mm. inch	33 1.30	KF40	KF 16	19 .750
741-4003	mm. inch	55 2.18	KF 40	KF 25	25 1.00
741-5001	mm. inch	36 1.40	KF 50	KF 10	13 .500
741-5002	mm. inch	33 1.30	KF 50	KF 16	19 .750
741-5003	mm. inch	55 2.18	KF 50	KF 25	25 1.00
741-5004	mm. inch	65 2.55	KF 50	KF 40	38 1.50



KF PORT FLANGE

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700 Series Standard Vacuum Fittings

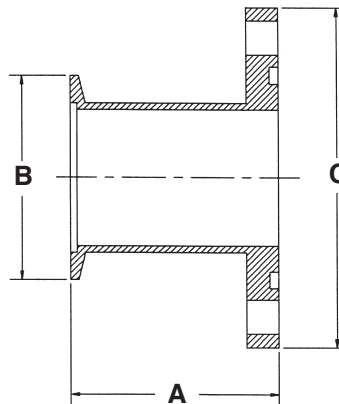
KF PORT FLANGE MODELS

Adapter Nipples

KF FLANGE TO ANSI FLANGE

MODEL NUMBER		A	B FLANGE O.D.	KF FLANGE SIZE	C FLANGE O.D.	ANSI FLANGE SIZE	TUBE O.D.
701-1602	mm. inch	51 2.00	30 1.18	KF 16	127 5.00	1.5 ANSI	19 .750
701-1603	mm. inch	51 2.00	30 1.18	KF 16	152 6.00	2.0 ANSI	19 .750
701-1604	mm. inch	51 2.00	30 1.18	KF 16	191 7.50	3.0 ANSI	19 .750
701-1605	mm. inch	51 2.00	30 1.18	KF 16	229 9.00	4.0 ANSI	19 .750
701-1606	mm. inch	51 2.00	30 1.18	KF 16	279 11.00	6.0 ANSI	19 .750
701-2503	mm. inch	51 2.00	40 1.57	KF 25	152 6.00	2.0 ANSI	25 1.00
701-2504	mm. inch	51 2.00	40 1.57	KF 25	191 7.50	3.0 ANSI	25 1.00
701-2505	mm. inch	51 2.00	40 1.57	KF 25	229 9.00	4.0 ANSI	25 1.00
701-2506	mm. inch	51 2.00	40 1.57	KF 25	279 11.00	6.0 ANSI	25 1.00
701-4004	mm. inch	51 2.00	55 2.16	KF 40	191 7.50	3.0 ANSI	38 1.50
701-4005	mm. inch	51 2.00	55 2.16	KF 40	229 9.00	4.0 ANSI	38 1.50
701-4006	mm. inch	51 2.00	55 2.16	KF 40	279 11.00	6.0 ANSI	38 1.50
701-5004	mm. inch	51 2.00	75 2.95	KF 50	229 9.00	4.0 ANSI	51 2.00
701-5005	mm. inch	51 2.00	75 2.95	KF 50	279 11.00	6.0 ANSI	51 2.00

NOTE: O-Ring groove on ANSI Flange optional. (Add **-G** to model number) Contact sales office for option prices.



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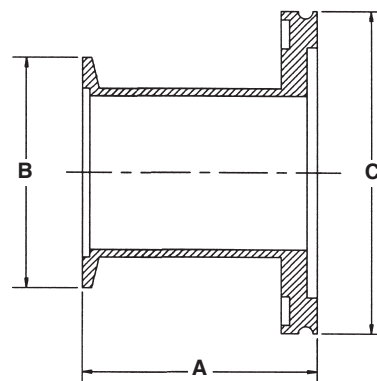
700 Series Standard Vacuum Fittings

KF PORT FLANGE MODELS

Adapter Nipples . . . *continued*

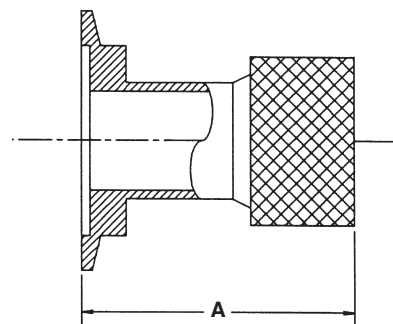
KF FLANGE TO ISO FLANGE

MODEL NUMBER		TUBE O.D.	B FLANGE	C FLANGE	A
703-1601	mm. inch	19 .750	KF 16	ISO 63	44 1.75
703-2501	mm. inch	25 1.00	KF 25	ISO 63	44 1.75
703-2502	mm. inch	25 1.00	KF 25	ISO 75	44 1.75
703-2503	mm. inch	25 1.00	KF 25	ISO 100	44 1.75
703-4001	mm. inch	38 1.50	KF 40	ISO 100	44 1.75
703-5001	mm. inch	50 2.00	KF 50	ISO 150	44 1.75



KF FLANGE TO QUICK DISCONNECT

MODEL NUMBER		TUBE O.D.	MIN. I.D.	KF FLANGE SIZE	A
702-1604	mm. inch	6 .250	3/16"	KF 16	34 1.33
702-1606	mm. inch	9 .375	9/32"	KF 16	37 1.47
702-1607	mm. inch	13 .500	13/32"	KF 16	42 1.64
702-2504	mm. inch	6 .250	3/16"	KF 25	34 1.33
702-2506	mm. inch	9 .375	9/32"	KF 25	37 1.47
702-2507	mm. inch	13 .500	13/32"	KF 25	42 1.64
702-2509	mm. inch	19 .750	5/8"	KF 25	45 1.78
702-4004	mm. inch	6 .250	3/16"	KF 40	34 1.33
702-4006	mm. inch	9 .375	9/32"	KF 40	37 1.47
702-4007	mm. inch	13 .500	13/32"	KF 40	42 1.64
702-4009	mm. inch	19 .750	5/8"	KF 40	45 1.78
702-4011	mm. inch	25 1.00	7/8"	KF 40	46 1.80



Metric sizes available upon request.

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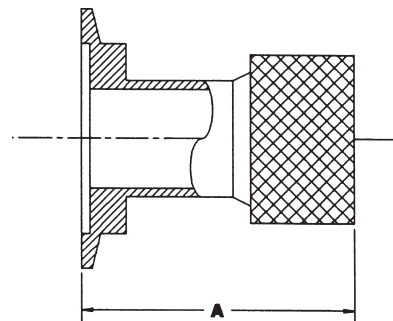
700 Series Standard Vacuum Fittings

KF PORT FLANGE MODELS

Adapter Nipples . . . *continued*

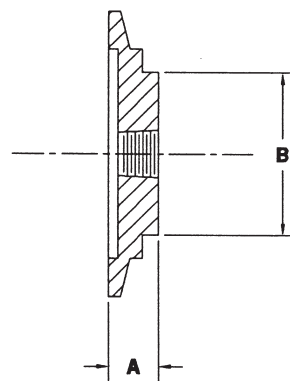
KF FLANGE TO QUICK DISCONNECT . . . CONTINUED

MODEL NUMBER		TUBE O.D.	MIN. I.D.	KF FLANGE SIZE	A
702-5007	mm. inch	13 .500	13/32"	KF 50	42 1.64
702-5009	mm. inch	19 .750	5/8"	KF 50	45 1.78
702-5011	mm. inch	25 1.00	7/8"	KF 50	46 1.80



KF FLANGE TO FEMALE PIPE ADAPTER

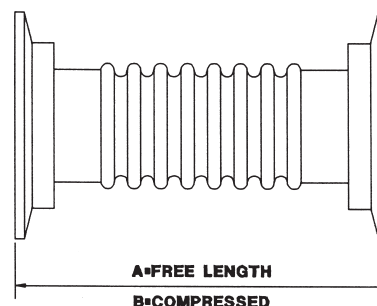
MODEL NUMBER		KF FLANGE SIZE	A	B NTP
704-1601	mm. inch	KF 16	19 .750	16 .62
704-1602	mm. inch	KF 25	19 .750	22 .88
704-2501	mm. inch	KF 40	25 1.00	32 1.25
704-4001	mm. inch	KF 50	25 1.00	44 1.75



FLEXIBLE NIPPLES

MODEL NUMBER		BELLOWS I.D.	A	B	FLANGE REF
735-0160	mm. inch	13 .50	81 3.20	75 2.95	KF 16
735-0250	mm. inch	19 .75	81 3.20	75 2.95	KF 25
735-0400	mm. inch	32 1.50	81 3.20	75 2.95	KF 40
735-0500	mm. inch	41 1.75	81 3.20	75 2.95	KF 50

KF FLANGE TO PIPE ADAPTER



KF PORT FLANGE

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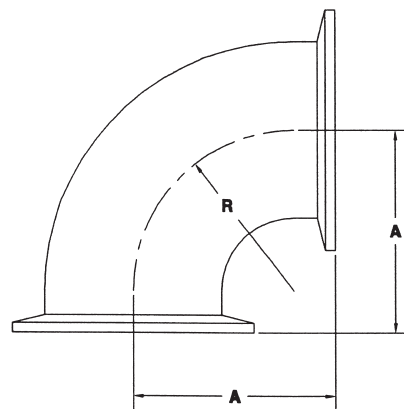
700 Series Standard Vacuum Fittings

KF PORT FLANGE MODELS

Elbows & Tees

90° RADIUS ELBOWS

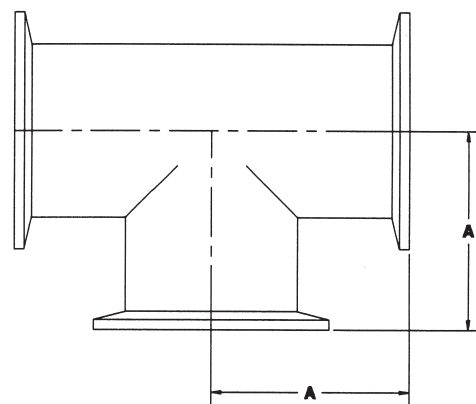
MODEL NUMBER		TUBE O.D.	A	R	FLANGE REF
750-0110	mm. inch	13 .500	32 1.25	19 .750	KF 10
750-0160	mm. inch	19 .750	29 1.15	25 1.00	KF 16
750-0250	mm. inch	25 1.00	42 1.65	38 1.50	KF 25
750-0400	mm. inch	38 1.50	61 2.40	57 2.25	KF 40
750-0500	mm. inch	50 2.00	80 3.15	76 3.00	KF 50



KF PORT FLANGE

TEES

MODEL NUMBER		TUBE O.D.	A	FLANGE REF
755-0110	mm. inch	13 .500	32 1.25	KF 10
755-0160	mm. inch	19 .750	29 1.15	KF 16
755-0250	mm. inch	25 1.00	52 2.03	KF 25
755-0400	mm. inch	38 1.50	61 2.40	KF 40
755-0500	mm. inch	50 2.00	80 3.15	KF 50



KF PORT FLANGE

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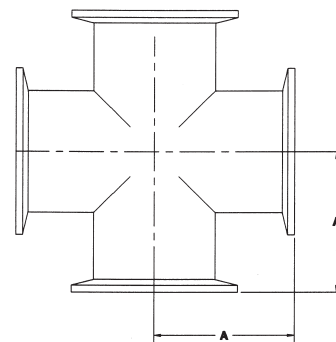
700 Series Standard Vacuum Fittings

KF PORT FLANGE MODELS

Crosses

4-WAY CROSSES

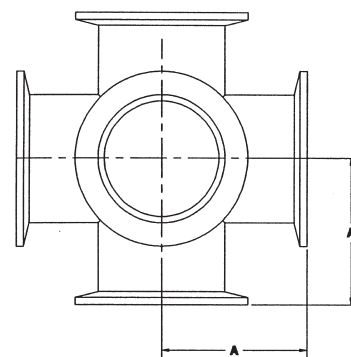
MODEL NUMBER		TUBE O.D.	A	FLANGE REF
760-0110	mm. inch	13 .500	32 1.25	KF 10
760-0160	mm. inch	19 .750	29 1.15	KF 16
760-0250	mm. inch	25 1.00	52 2.03	KF 25
760-0400	mm. inch	38 1.50	61 2.40	KF 40
760-0500	mm. inch	50 2.00	80 3.15	KF 50



KF PORT FLANGE

5-WAY CROSSES

MODEL NUMBER		TUBE O.D.	A	FLANGE REF
765-0160	mm. inch	19 .750	38 1.50	KF 16
765-0250	mm. inch	25 1.00	52 2.03	KF 25
765-0400	mm. inch	38 1.50	61 2.40	KF 40
765-0500	mm. inch	50 2.00	80 3.15	KF 50

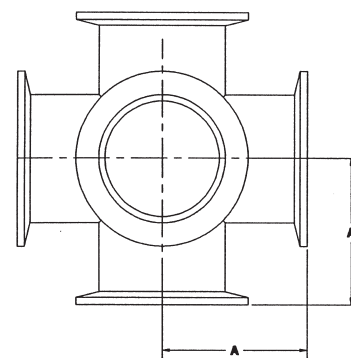


KF PORT FLANGE

6-WAY CROSSES

MODEL NUMBER		TUBE O.D.	A	FLANGE REF
770-0160	mm. inch	19 .750	38 1.50	KF 16
770-0250	mm. inch	25 1.00	52 2.03	KF 25
770-0400	mm. inch	38 1.50	61 2.40	KF 40
770-0500	mm. inch	50 2.00	80 3.15	KF 50

6TH LEG OPPOSITE



KF PORT FLANGE

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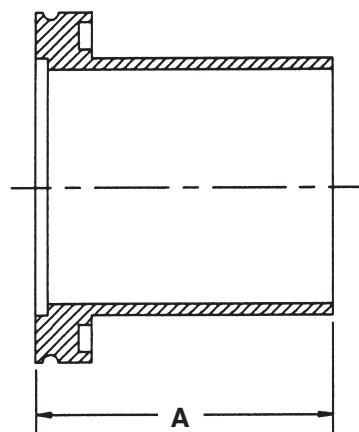
700 Series Standard Vacuum Fittings

ISO PORT FLANGE MODELS

Nipples

HALF NIPPLES

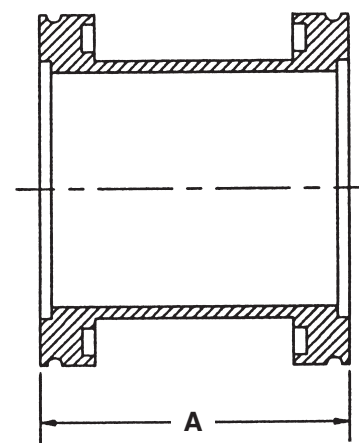
MODEL NUMBER		TUBE O.D.	A	FLANGE REF
745-0630	mm. inch	63 2.50	102 4.00	ISO 63
745-0750	mm. inch	76 3.00	89 3.50	ISO 75
745-1000	mm. inch	102 4.00	130 5.12	ISO 100
745-1500	mm. inch	152 6.00	137 5.38	ISO 150
745-2000	mm. inch	203 8.00	187 7.38	ISO 200
745-2500	mm. inch	254 10.00	251 9.88	ISO 250
745-3200	mm. inch	305 12.00	251 9.88	ISO 320
745-4000	mm. inch	406 16.00	251 9.88	ISO 400
745-5000	mm. inch	508 20.00	251 9.88	ISO 500



ISO PORT FLANGE

FULL NIPPLES

MODEL NUMBER		TUBE O.D.	A	FLANGE REF
740-0630	mm. inch	63 2.50	165 6.50	ISO 63
740-0750	mm. inch	76 3.00	178 7.00	ISO 75
740-1000	mm. inch	102 4.00	210 8.26	ISO 100
740-1500	mm. inch	152 6.00	273 10.76	ISO 150
740-2000	mm. inch	203 8.00	375 14.76	ISO 200
740-2500	mm. inch	254 10.00	502 19.76	ISO 250
740-3200	mm. inch	305 12.00	502 19.76	ISO 320
740-4000	mm. inch	406 16.00	502 19.76	ISO 400
740-5000	mm. inch	508 20.00	502 19.76	ISO 500



ISO PORT FLANGE

Due to ongoing product development, prices/dimensions subject to change without notice.

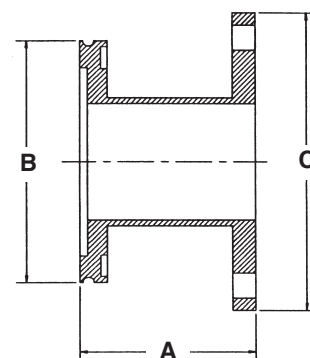
700 Series Standard Vacuum Fittings

ISO PORT FLANGE MODELS

Adapter Nipples

ISO FLANGE TO ANSI FLANGE

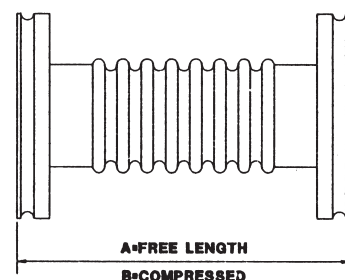
MODEL NUMBER		A	B FLANGE O.D.	ISO FLANGE SIZE	C ANSI FLANGE SIZE	TUBE O.D.
710-6301	mm. inch	127 5.00	95 3.74	ISO 63	6" ANSI	64 2.50
710-1001	mm. inch	127 5.00	130 5.12	ISO 100	4" ANSI	102 4.00
710-1501	mm. inch	152 6.00	180 7.09	ISO 150	4" ANSI	152 6.00
710-1502	mm. inch	152 6.00	180 7.09	ISO 150	6" ANSI	152 6.00
710-2001	mm. inch	152 6.00	240 9.45	ISO 200	6" ANSI	203 8.00



**ISO FLANGE TO
ANSI FLANGE**

FLEXIBLE NIPPLES

MODEL NUMBER		BELLOWS I.D.	A	B	FLANGE REF
735-0630	mm. inch	64 2.50	178 7.00	152 6.00	ISO 63
735-0800	mm. inch	76 3.00	178 7.00	152 6.00	ISO 75
735-1000	mm. inch	102 4.00	178 7.00	152 6.00	ISO 100
735-1500	mm. inch	152 6.00	178 7.00	152 6.00	ISO 150
735-2000	mm. inch	203 8.00	178 7.00	152 6.00	ISO 200
735-2500	mm. inch	254 10.00	343 13.50	267 10.50	ISO 250
735-3200	mm. inch	305 12.00	390 15.37	314 12.37	ISO 300
735-4000	mm. inch	356 14.00	394 15.50	318 12.50	ISO 400
735-5000	mm. inch	508 20.00	394 15.50	318 12.50	ISO 500



ISO PORT FLANGE

Due to ongoing product development, prices/dimensions subject to change without notice.

700 Series Standard Vacuum Fittings

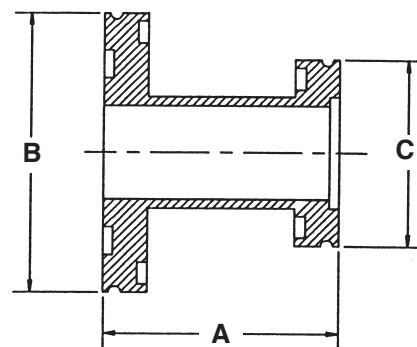
ISO PORT FLANGE MODELS

Reducing Nipples & Elbows

REDUCING NIPPLES

MODEL NUMBER		A	B FLANGE SIZE	C FLANGE SIZE	TUBE O.D.
741-2501	mm. inch	76 3.00	ISO 100	ISO 63	64 2.50
741-2502	mm. inch	76 3.00	ISO 150	ISO 63	64 2.50
741-4001	mm. inch	76 3.00	ISO 150	ISO 100	102 4.00
741-4002	mm. inch	76 3.00	ISO 200	ISO 150	152 6.00
741-4003	mm. inch	76 3.00	ISO 250	ISO 200	203 8.00

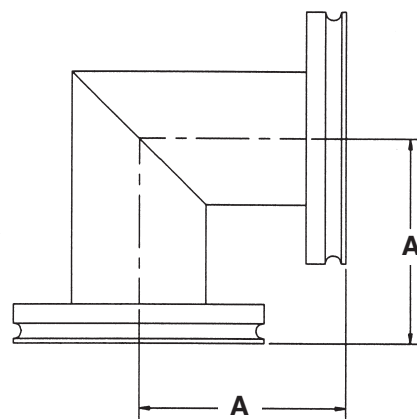
NOTE: See Accessories Section for Clamps, Centering-Rings and Gaskets.



ISO PORT FLANGE

90° MITERED ELBOWS

MODEL NUMBER		TUBE O.D.	A	FLANGE REF
750-0630	mm. inch	64 2.50	83 3.25	ISO 63
750-0750	mm. inch	76 3.00	89 3.50	ISO 75
750-1000	mm. inch	102 4.00	105 4.13	ISO 100
750-1500	mm. inch	152 6.00	137 5.38	ISO 150
750-2000	mm. inch	203 8.00	187 7.38	ISO 200
750-2500	mm. inch	254 10.00	251 9.88	ISO 250



ISO PORT FLANGE

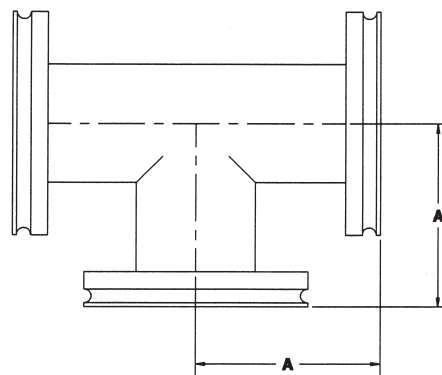
Due to ongoing product development, prices/dimensions subject to change without notice.

700 Series Standard Vacuum Fittings

ISO PORT FLANGE MODELS

Tees

MODEL NUMBER		TUBE O.D.	A	FLANGE REF
755-0630	mm. inch	64 2.50	83 3.25	ISO 63
755-0750	mm. inch	76 3.00	89 3.50	ISO 75
755-1000	mm. inch	102 4.00	105 4.13	ISO 100
755-1500	mm. inch	152 6.00	137 5.38	ISO 150
755-2000	mm. inch	203 8.00	187 7.38	ISO 200
755-2500	mm. inch	254 10.00	251 9.88	ISO 250



ISO PORT FLANGE

Due to ongoing product development, prices/dimensions subject to change without notice.

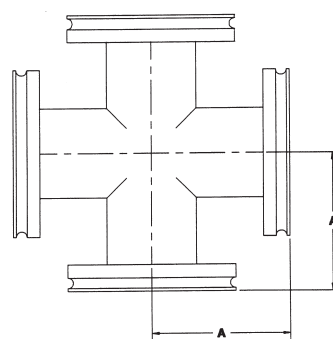
700 Series Standard Vacuum Fittings

ISO PORT MODELS

Crosses

4-WAY CROSSES

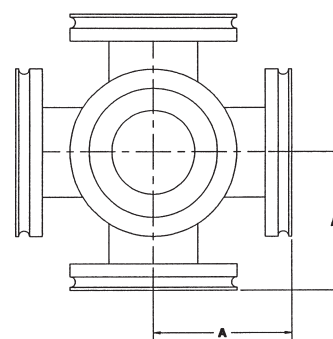
MODEL NUMBER		TUBE O.D.	A	FLANGE REF
760-0630	mm. inch	64 2.50	83 3.25	ISO 63
760-0750	mm. inch	76 3.00	89 3.50	ISO 75
760-1000	mm. inch	102 4.00	105 4.13	ISO 100
760-1500	mm. inch	152 6.00	137 5.38	ISO 150
760-2000	mm. inch	203 8.00	187 7.38	ISO 200
760-2500	mm. inch	254 10.00	251 9.88	ISO 250



ISO PORT FLANGE

5-WAY CROSSES

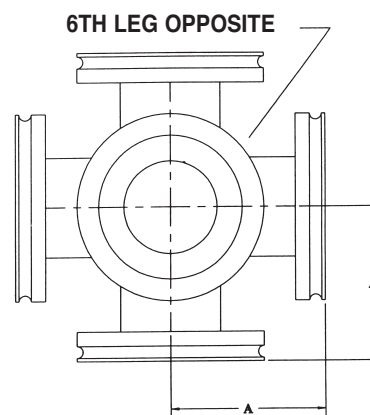
MODEL NUMBER		TUBE O.D.	A	FLANGE REF
765-0630	mm. inch	64 2.50	83 3.25	ISO 63
765-0750	mm. inch	76 3.00	89 3.50	ISO 75
765-1000	mm. inch	102 4.00	105 4.13	ISO 100
765-1500	mm. inch	152 6.00	137 5.38	ISO 150
765-2000	mm. inch	203 8.00	187 7.38	ISO 200
765-2500	mm. inch	254 10.00	251 9.88	ISO 250



ISO PORT FLANGE

6-WAY CROSSES

MODEL NUMBER		TUBE O.D.	A	FLANGE REF
770-0630	mm. inch	64 2.50	83 3.25	ISO 63
770-0750	mm. inch	76 3.00	89 3.50	ISO 75
770-1000	mm. inch	102 4.00	105 4.13	ISO 100
770-1500	mm. inch	152 6.00	137 5.38	ISO 150
770-2000	mm. inch	203 8.00	187 7.38	ISO 200
770-2500	mm. inch	254 10.00	251 9.88	ISO 250



ISO PORT FLANGE

Due to ongoing product development, prices/dimensions subject to change without notice.

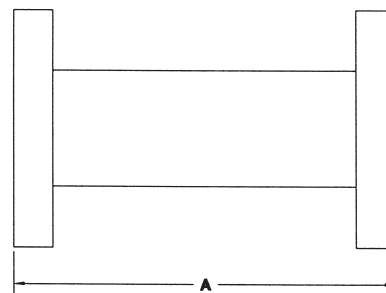
700 Series Standard Vacuum Fittings

ANSI PORT FLANGE MODELS

Nipples

FULL NIPPLES

MODEL NUMBER		FLANGE O.D.	FLANGE SIZE	TUBE O.D.	A
740-1520	mm. inch	127 5.00	1.5 ANSI	51 2.00	165 6.50
740-1525	mm. inch	127 5.00	1.5 ANSI	64 2.50	165 6.50
740-0230	mm. inch	152 6.00	2.0 ANSI	76 3.00	178 7.00
740-0340	mm. inch	191 7.50	3.0 ANSI	102 4.00	210 8.26
740-0440	mm. inch	229 9.00	4.0 ANSI	102 4.00	210 8.26
740-0460	mm. inch	229 9.00	4.0 ANSI	152 6.00	267 10.50
740-0660	mm. inch	279 11.00	6.0 ANSI	152 6.00	273 10.76
740-0680	mm. inch	279 11.00	6.0 ANSI	203 8.00	375 14.76
740-0880	mm. inch	343 13.50	8.0 ANSI	203 8.00	394 15.50
740-0810	mm. inch	343 13.50	8.0 ANSI	254 10.00	502 19.76
740-1010	mm. inch	406 16.00	10.0 ANSI	254 10.00	502 19.76
740-1012	mm. inch	406 16.00	10.0 ANSI	305 12.00	502 19.76



NIPPLES

NOTE: Add suffix **-G** if O-ring groove is required. Contact sales office for price list on options.

Due to ongoing product development, prices/dimensions subject to change without notice.

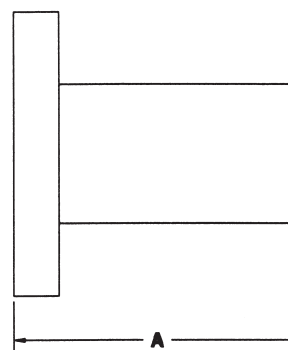
700 Series Standard Vacuum Fittings

ANSI PORT FLANGE MODELS

Half Nipples & Flexible Nipples

HALF NIPPLES

MODEL NUMBER		FLANGE O.D.	FLANGE SIZE	TUBE O.D.	A
745-1520	mm. inch	127 5.00	1.5 ANSI	51 2.00	83 3.25
745-1525	mm. inch	127 5.00	1.5 ANSI	64 2.50	83 3.25
745-0230	mm. inch	152 6.00	2.0 ANSI	76 3.00	89 3.50
745-0340	mm. inch	191 7.50	3.0 ANSI	102 4.00	105 4.13
745-0440	mm. inch	229 9.00	4.0 ANSI	102 4.00	105 4.13
745-0460	mm. inch	229 9.00	4.0 ANSI	152 6.00	133 5.25
745-0660	mm. inch	279 11.00	6.0 ANSI	152 6.00	137 5.38
745-0680	mm. inch	279 11.00	6.0 ANSI	203 8.00	187 7.38
745-0880	mm. inch	343 13.50	8.0 ANSI	203 8.00	197 7.75
745-0810	mm. inch	343 13.50	8.0 ANSI	254 10.00	251 9.88
745-1010	mm. inch	406 16.00	10.0 ANSI	254 10.00	251 9.88
715-1012	mm. inch	406 16.00	10.0 ANSI	305 12.00	251 9.88

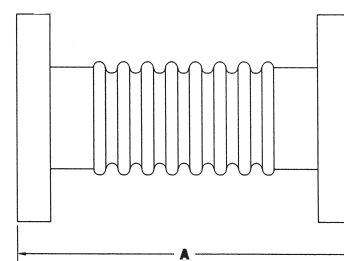


HALF NIPPLES

NOTE: Add suffix **-G** if O-ring groove is required. Contact sales office for price list on options.

FLEXIBLE NIPPLES

MODEL NUMBER		FLANGE O.D.	FLANGE SIZE	BELLOWS I.D.	A	COMPRESSED LENGTH
735-1520	mm. inch	127 5.00	1.5 ANSI	51 2.00	152 6.00	133 5.25
735-1525	mm. inch	127 5.00	1.5 ANSI	64 2.50	178 7.00	152 6.00
735-0230	mm. inch	152 6.00	2.0 ANSI	76 3.00	178 7.00	152 6.00
735-0440	mm. inch	229 9.00	4.0 ANSI	102 4.00	178 7.00	152 6.00
735-0660	mm. inch	279 11.00	6.0 ANSI	152 6.00	178 7.00	152 6.00
735-0880	mm. inch	343 13.50	8.0 ANSI	203 8.00	178 7.00	152 6.00



FLEXIBLE NIPPLES

NOTE: Add suffix **-G** if O-Ring groove is required. Specify flange by appropriate flange number i.e. **-G1** or **-G2**.

Due to ongoing product development, prices/dimensions subject to change without notice.

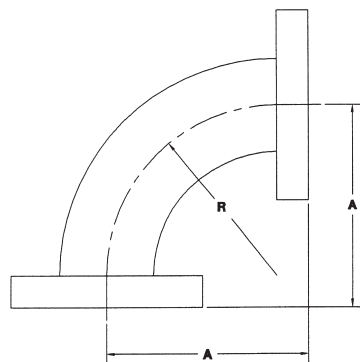
700 Series Standard Vacuum Fittings

ANSI PORT FLANGE MODELS

Elbows

90° RADIUS ELBOWS

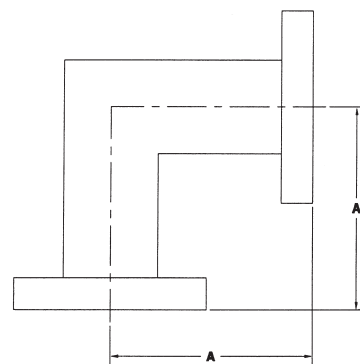
MODEL NUMBER		FLANGE O.D.	FLANGE SIZE	TUBE O.D.	A	R
750-1520	mm. inch	125 5.00	1.5 ANSI	51 2.00	164 3.25	76 3.00
750-0230	mm. inch	150 6.00	2.0 ANSI	76 3.00	178 4.75	114 4.50
750-0440	mm. inch	229 9.00	4.0 ANSI	102 4.00	207 6.25	152 6.00



RADIUS ELBOWS

ANSI 90° MITERED ELBOWS

MODEL NUMBER		FLANGE O.D.	FLANGE SIZE	TUBE O.D.	A
750-0460M	mm. inch	229 9.00	4.0 ANSI	153 6.00	160 6.31
750-0660M	mm. inch	279 11.00	6.0 ANSI	153 6.00	164 6.44
750-0680M	mm. inch	279 11.00	6.0 ANSI	203 8.00	187 7.38
750-0880M	mm. inch	343 13.50	8.0 ANSI	203 8.00	197 7.75
750-0810M	mm. inch	343 13.50	8.0 ANSI	254 10.00	251 9.88
750-1010M	mm. inch	406 16.00	10.0 ANSI	254 10.00	251 9.88



MITERED ELBOWS

NOTE: Add suffix **-G** if O-Ring groove is required and specify flange location. Contact sales office for price list on options.

Due to ongoing product development, prices/dimensions subject to change without notice.

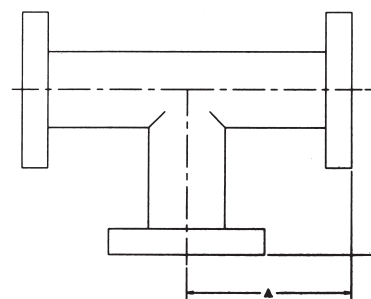
700 Series Standard Vacuum Fittings

ANSI PORT FLANGE MODELS

Tees & Crosses

TEES

MODEL NUMBER		FLANGE O.D.	FLANGE SIZE	TUBE O.D.	A
755-1520	mm. inch	127 5.00	1.5 ANSI	51 2.00	83 3.25
755-1525	mm. inch	127 5.00	1.5 ANSI	64 2.50	102 4.00
755-0340	mm. inch	191 7.50	3.0 ANSI	102 4.00	130 5.12
755-0440	mm. inch	229 9.00	4.0 ANSI	102 4.00	130 5.12
755-0460	mm. inch	229 9.00	4.0 ANSI	152 6.00	160 6.31
755-0660	mm. inch	279 11.00	6.0 ANSI	152 6.00	164 6.44
755-0680	mm. inch	279 11.00	6.0 ANSI	203 8.00	187 7.38
755-0880	mm. inch	343 13.50	8.0 ANSI	203 8.00	197 7.75
755-0810	mm. inch	343 13.50	8.0 ANSI	254 10.00	251 9.88
755-1010	mm. inch	406 16.00	10.0 ANSI	254 10.00	251 9.88

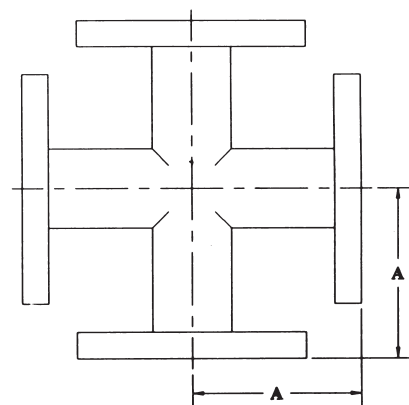


TEES

NOTE: Add suffix **-G** if O-Ring groove is required and specify flange location. Contact sales office for price list on options.

4-WAY CROSSES

MODEL NUMBER		FLANGE O.D.	FLANGE SIZE	TUBE O.D.	A
760-1520	mm. inch	127 5.00	1.5 ANSI	51 2.00	83 3.25
760-1525	mm. inch	127 5.00	1.5 ANSI	64 2.50	102 4.00
760-0340	mm. inch	191 7.50	3.0 ANSI	102 4.00	130 5.12
760-0440	mm. inch	229 9.00	4.0 ANSI	102 4.00	130 5.12
760-0460	mm. inch	229 9.00	4.0 ANSI	152 6.00	160 6.31
760-0660	mm. inch	279 11.00	6.0 ANSI	152 6.00	164 6.44
760-0680	mm. inch	279 11.00	6.0 ANSI	203 8.00	187 7.38
760-0880	mm. inch	343 13.50	8.0 ANSI	203 8.00	197 7.75
760-0810	mm. inch	343 13.50	8.0 ANSI	254 10.00	251 9.88
760-1010	mm. inch	406 16.00	10.0 ANSI	254 10.00	251 9.88



4-WAY CROSSES

NOTE: Add suffix **-G** if O-Ring groove is required and specify flange location. Contact sales office for price list on options.

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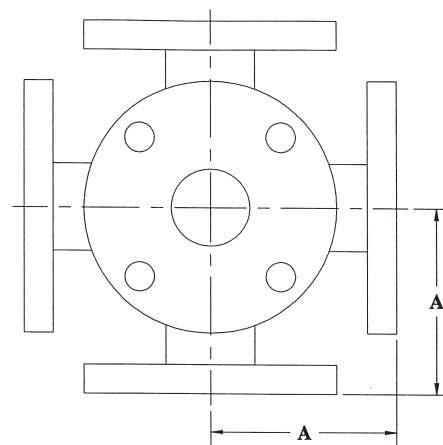
700 Series Standard Vacuum Fittings

ANSI PORT FLANGE MODELS

Crosses . . . continued

5-WAY CROSSES

MODEL NUMBER		FLANGE O.D.	FLANGE SIZE	TUBE O.D.	A
765-1520	mm. inch	127 5.00	1.5 ANSI	51 2.00	83 3.25
765-1525	mm. inch	127 5.00	1.5 ANSI	64 2.50	102 4.00
765-0440	mm. inch	229 9.00	4.0 ANSI	102 4.00	130 5.12
765-0460	mm. inch	229 9.00	4.0 ANSI	152 6.00	160 6.31
765-0660	mm. inch	279 11.00	6.0 ANSI	152 6.00	164 6.44
765-0680	mm. inch	279 11.00	6.0 ANSI	203 8.00	187 7.38
765-0880	mm. inch	343 13.50	8.0 ANSI	203 8.00	197 7.75
765-0810	mm. inch	343 13.50	8.0 ANSI	254 10.00	251 9.88
765-1010	mm. inch	406 16.00	10.0 ANSI	254 10.00	251 9.88

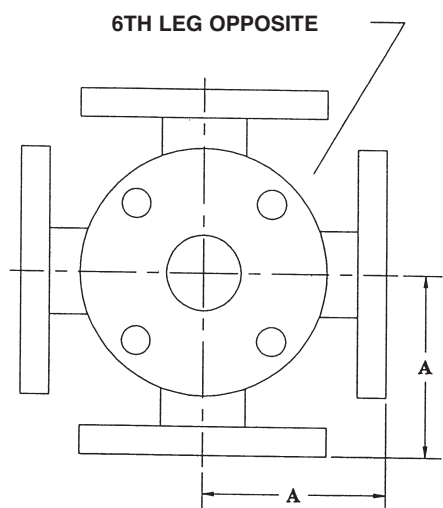


5-WAY CROSSES

NOTE: Add suffix **-G** if O-Ring groove is required and specify flange location. Contact sales office for price list on options.

6-WAY CROSSES

MODEL NUMBER		FLANGE O.D.	FLANGE SIZE	TUBE O.D.	A
770-1520	mm. inch	127 5.00	1.5 ANSI	51 2.00	83 3.25
770-1525	mm. inch	127 5.00	1.5 ANSI	64 2.50	102 4.00
770-0340	mm. inch	191 7.50	3.0 ANSI	102 4.00	130 5.12
770-0440	mm. inch	229 9.00	4.0 ANSI	102 4.00	130 5.12
770-0460	mm. inch	229 9.00	4.0 ANSI	152 6.00	160 6.31
770-0660	mm. inch	279 11.00	6.0 ANSI	152 6.00	164 6.44
770-0680	mm. inch	279 11.00	6.0 ANSI	203 8.00	187 7.38
770-0880	mm. inch	343 13.50	8.0 ANSI	203 8.00	197 7.75
770-0810	mm. inch	343 13.50	8.0 ANSI	254 10.00	251 9.88
770-1010	mm. inch	406 16.00	10.0 ANSI	254 10.00	251 9.88



6-WAY CROSSES

NOTE: Add suffix **-G** if O-Ring groove is required and specify flange location. Contact sales office for price list on options.

Due to ongoing product development, prices/dimensions subject to change without notice.

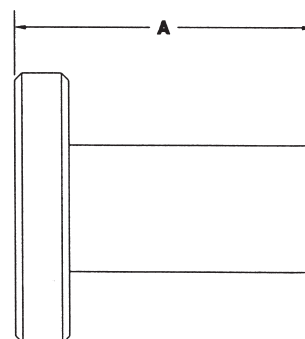
700 Series Standard Vacuum Fittings

CF-F PORT MODELS

Nipples

HALF NIPPLES

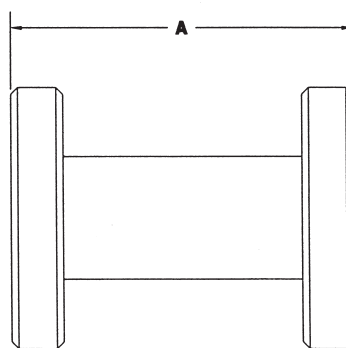
MODEL NUMBER		FLANGE O.D.	TUBE O.D.	A
745-1307	mm. inch	34 1.33	20 .750	38 1.50
745-2110	mm. inch	54 2.12	25 1.00	52 2.05
745-2715	mm. inch	70 2.75	38 1.50	62 2.46
745-3320	mm. inch	86 3.38	51 2.00	82 3.22
745-4525	mm. inch	114 4.50	64 2.50	105 4.12
745-4630	mm. inch	117 4.62	76 3.00	90 3.53
745-6040	mm. inch	152 6.00	102 4.00	135 5.31
745-8060	mm. inch	203 8.00	152 6.00	167 6.56
745-1080	mm. inch	254 10.00	203 8.00	191 7.50
745-1310	mm. inch	337 13.25	254 10.00	254 10.00
745-1412	mm. inch	356 14.00	305 12.00	254 10.00



NON-ROTATABLE

FULL NIPPLES

MODEL NUMBER		FLANGE O.D.	TUBE O.D.	A
740-1307	mm. inch	34 1.33	20 .750	76 3.00
740-2110	mm. inch	54 2.12	25 1.00	104 4.10
740-2715	mm. inch	70 2.75	38 1.50	125 4.92
740-3320	mm. inch	86 3.38	51 2.00	164 6.44
740-4525	mm. inch	114 4.50	64 2.50	209 8.24
740-4630	mm. inch	117 4.62	76 3.00	179 7.06
740-6040	mm. inch	152 6.00	102 4.00	270 10.62
740-8060	mm. inch	203 8.00	152 6.00	333 13.12
740-1080	mm. inch	254 10.00	203 8.00	381 15.00
740-1310	mm. inch	337 13.25	254 10.00	508 20.00
740-1412	mm. inch	356 14.00	305 12.00	508 20.00



NON-ROTATABLE

ROTATABLE

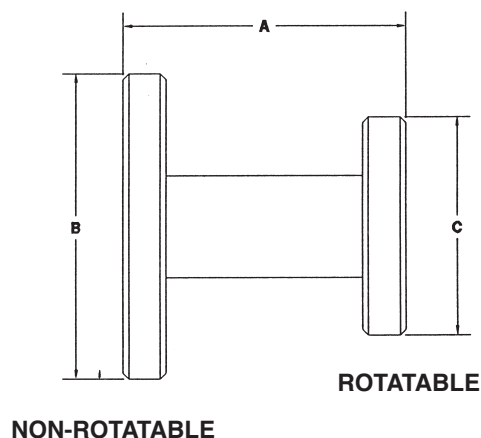
Due to ongoing product development, prices/dimensions subject to change without notice.

700 Series Standard Vacuum Fittings

CF-F PORT MODELS

Reducing Nipples

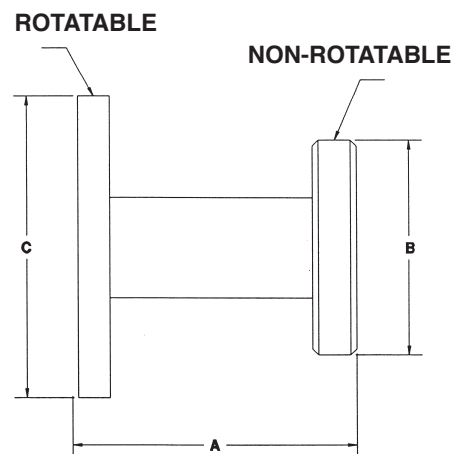
MODEL NUMBER		A	B FLANGE O.D.	C FLANGE SIZE	TUBE O.D.
741-6027	mm. inch	127 5.00	152 6.00	70 2.75	38 1.50
741-8045	mm. inch	127 5.00	203 8.00	114 4.50	64 2.50
741-8060	mm. inch	127 5.00	203 8.00	152 6.00	102 4.00
741-1027	mm. inch	127 5.00	254 10.00	70 2.75	38 1.50
741-1045	mm. inch	127 5.00	254 10.00	114 4.50	64 2.50
741-1060	mm. inch	127 5.00	254 10.00	152 6.00	102 4.00
741-1080	mm. inch	127 5.00	254 10.00	203 8.00	152 6.00
741-1310	mm. inch	127 5.00	337 13.25	254 10.00	203 8.00
741-1412	mm. inch	127 5.00	356 14.00	305 12.00	254 10.00



Adapter Nipples

CF-F TO ANSI FLANGE

MODEL NUMBER		A	B CF-F O.D.	C ANSI FLANGE	ANSI O.D.	TUBE O.D.
720-4601	mm. inch	127 5.00	117 4.62	2.0 ANSI	152 6.00	76 3.00
720-6001	mm. inch	127 5.00	152 6.00	4.0 ANSI	229 9.00	102 4.00
720-8001	mm. inch	127 5.00	203 8.00	6.0 ANSI	279 11.00	152 6.00
720-1001	mm. inch	127 5.00	254 10.00	8.0 ANSI	343 13.50	203 8.00
720-1301	mm. inch	127 5.00	337 13.25	10.0 ANSI	406 16.00	254 10.00



Due to ongoing product development, prices/dimensions subject to change without notice.

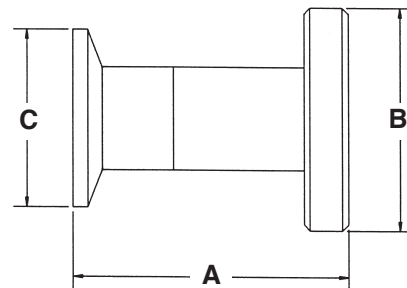
700 Series Standard Vacuum Fittings

CF-F PORT MODELS

Adapter Nipples

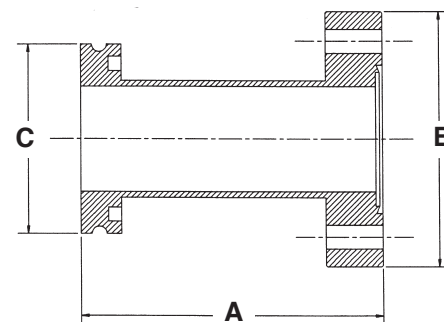
CF-F TO KF FLANGE

MODEL NUMBER		A	B CF-F O.D.	C KF O.D.	KF FLANGE SIZE	TUBE O.D.
722-1301	mm. inch	51 2.00	34 1.33	30 1.18	KF 10	13 .500
722-1302	mm. inch	51 2.00	34 1.33	30 1.18	KF 16	19 .750
722-2101	mm. inch	51 2.00	54 2.12	40 1.57	KF 25	25 1.00
722-2703	mm. inch	51 2.00	70 2.75	55 2.16	KF 40	38 1.50
722-3302	mm. inch	51 2.00	86 3.38	75 2.95	KF 50	51 2.00



CF-F TO ISO FLANGE

MODEL NUMBER		A	B CF-F O.D.	C ISO O.D.	ISO FLANGE SIZE	TUBE O.D.
721-4501	mm. inch	127 5.00	114 4.50	95 3.74	ISO 63	64 2.50
721-4601	mm. inch	127 5.00	117 4.62	110 4.33	ISO 75	76 3.00
721-6001	mm. inch	127 5.00	152 6.00	130 5.12	ISO 100	102 4.00
721-8001	mm. inch	127 5.00	203 8.00	180 7.09	ISO 150	152 6.00
721-1001	mm. inch	127 5.00	254 10.00	240 9.45	ISO 200	203 8.00



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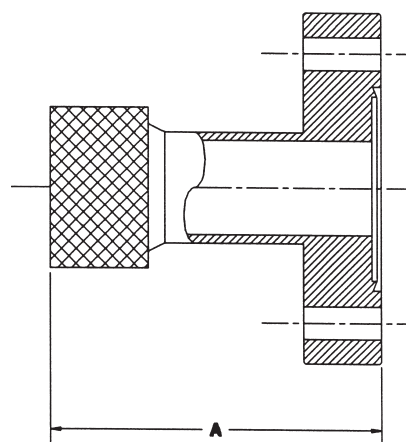
700 Series Standard Vacuum Fittings

CF-F PORT MODELS

Adapter Nipples . . . *continued*

CF-F TO QUICK DISCONNECT FITTINGS

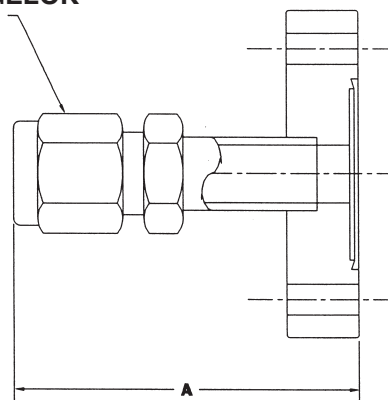
MODEL NUMBER		TUBE O.D.	CF-F O.D.	MIN I.D.	A
725-1304	mm. inch	6 .250	34 1.33	3/16"	35 1.38
725-1306	mm. inch	10 .375	34 1.33	9/32"	39 1.52
725-1307	mm. inch	13 .500	34 1.33	13/32"	43 1.69
725-2704	mm. inch	6 .250	70 2.75	3/16"	35 1.38
725-2706	mm. inch	10 .375	70 2.75	9/32"	39 1.52
725-2707	mm. inch	13 .500	70 2.75	13/32"	43 1.69
725-2709	mm. inch	19 .750	70 2.75	5/8"	46 1.83
725-2711	mm. inch	25 1.00	70 2.75	7/8"	47 1.85



CF-F TO SWAGELOK® FITTINGS

MODEL NUMBER		A	CF-F O.D.	TUBE O.D.
726-1301	mm. inch	35 1.37	34 1.33	6 .250
726-1302	mm. inch	39 1.53	34 1.33	10 .375
726-2701	mm. inch	35 1.37	70 2.75	6 .250
726-2702	mm. inch	39 1.54	70 2.75	10 .375

SWAGELOK



Due to ongoing product development, prices/dimensions subject to change without notice.

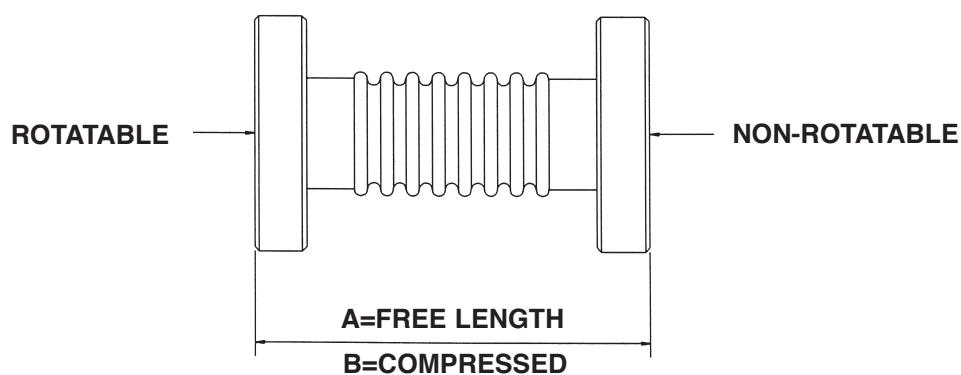
700 Series Standard Vacuum Fittings

CF-F PORT MODELS

Flexible Nipples

MODEL NUMBER		FLANGE O.D.	BELLOWS I.D.	A FREE LENGTH	B COMPRESSED LENGTH
735-1307	mm. inch	34 1.33	13 .500	76 3.20	75 2.95
735-2110	mm. inch	54 2.12	19 .750	107 4.20	94 3.70
735-2715	mm. inch	70 2.75	38 1.50	81 3.20	75 2.95
735-3320	mm. inch	86 3.38	51 2.00	152 6.00	133 5.25
735-4525	mm. inch	114 4.50	64 2.50	178 7.00	152 6.00
735-4630	mm. inch	117 4.62	76 3.00	178 7.00	152 6.00
735-6040	mm. inch	152 6.00	102 4.00	178 7.00	152 6.00
735-6750	mm. inch	171 6.75	127 5.00	178 7.00	152 6.00
735-8060	mm. inch	203 8.00	152 6.00	178 7.00	152 6.00
735-1080	mm. inch	254 10.00	203 8.00	178 7.00	152 6.00
735-1310*	mm. inch	337 13.25	254 10.00	356 14.00	279 11.00

*Bolts cannot be installed from bellows side of the flanges. Use nuts on bellows side.



Due to ongoing product development, prices/dimensions subject to change without notice.

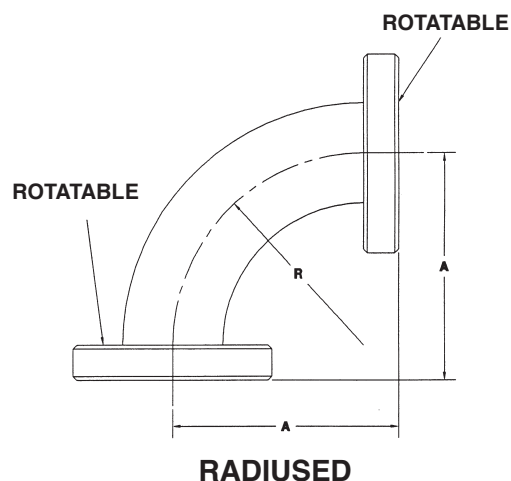
700 Series Standard Vacuum Fittings

CF-F PORT MODELS

90° RADIUS ELBOWS

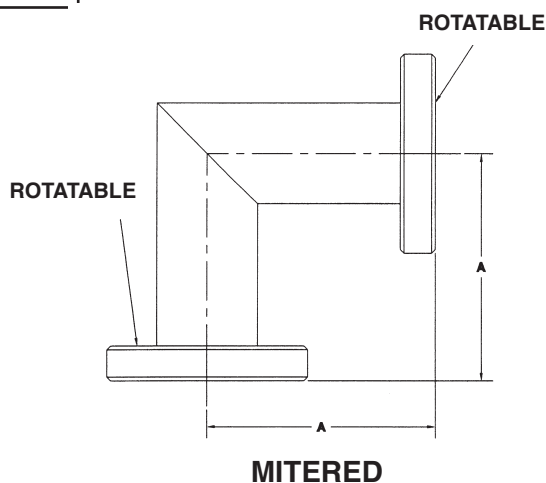
Elbows & Tees

MODEL NUMBER		FLANGE O.D.	TUBE O.D.	A	R
750-1307	mm. inch	34 1.33	19 .750	38 1.50	25 1.00
750-2110	mm. inch	54 2.12	25 1.00	42 1.67	38 1.50
750-2715	mm. inch	70 2.75	38 1.50	62 2.46	57 2.25
750-3320	mm. inch	86 3.38	51 2.00	86 3.22	76 3.00
750-4525	mm. inch	114 4.50	64 2.50	105 4.03	95 3.75
750-4630	mm. inch	119 4.62	76 3.00	90 4.94	114 4.50
750-6040	mm. inch	152 6.00	102 4.00	135 6.44	152 6.00



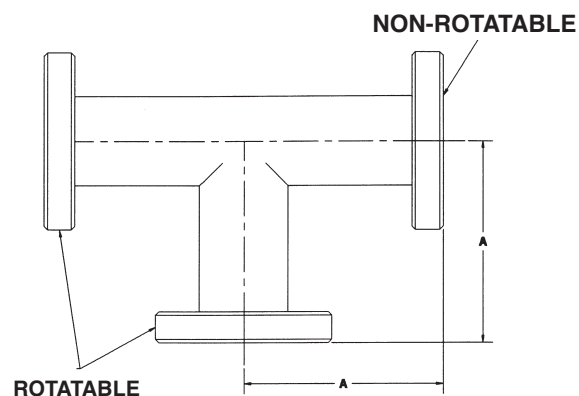
90° MITERED ELBOWS

MODEL NUMBER		FLANGE O.D.	TUBE O.D.	A
750-6750M	mm. inch	171 6.75	127 5.00	120 4.71
750-8060M	mm. inch	203 8.00	152 6.00	167 6.56
750-1080M	mm. inch	254 10.00	203 8.00	191 7.50
750-1310M	mm. inch	337 13.25	254 10.00	254 10.00



TEES

MODEL NUMBER		FLANGE O.D.	TUBE O.D.	A
755-1307	mm. inch	34 1.33	19 .750	38 1.50
755-2110	mm. inch	54 2.12	25 1.00	52 2.05
755-2715	mm. inch	70 2.75	38 1.50	62 2.46
755-3320	mm. inch	86 3.38	51 2.00	82 3.22
755-4525	mm. inch	114 4.50	64 2.50	105 4.12
755-4630	mm. inch	117 4.62	76 3.00	90 3.53
755-6040	mm. inch	152 6.00	102 4.00	135 5.31
755-6750	mm. inch	171 6.75	127 5.00	120 4.71
755-8060	mm. inch	203 8.00	152 6.00	167 6.56
755-1080	mm. inch	254 10.00	203 8.00	191 7.50
755-1310	mm. inch	337 13.25	254 10.00	254 10.00



Due to ongoing product development, prices/dimensions subject to change without notice.

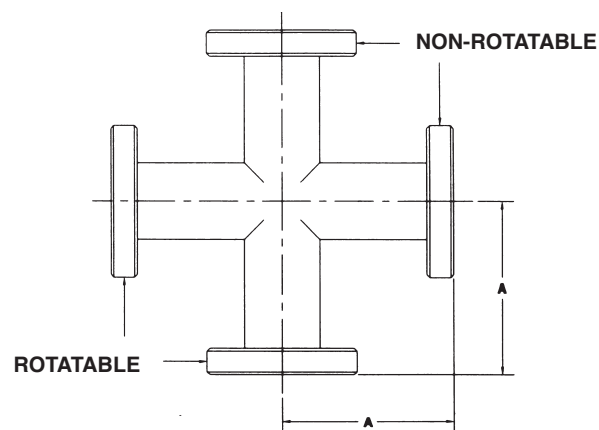
700 Series Standard Vacuum Fittings

CF-F PORT MODELS

Crosses

4-WAY CROSSES

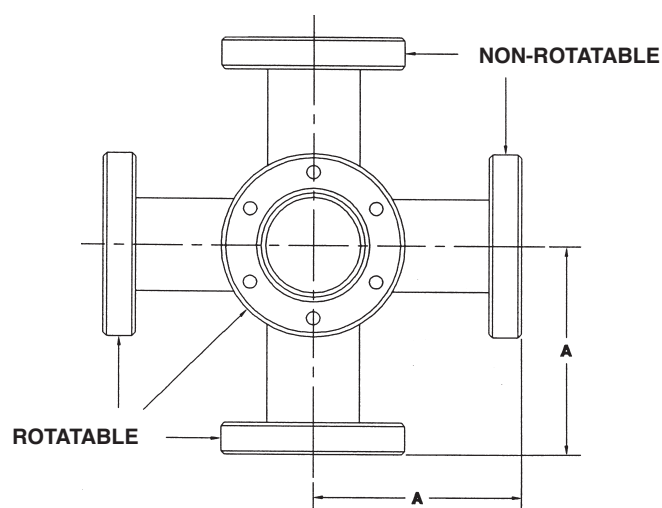
MODEL NUMBER		FLANGE O.D.	TUBE O.D.	A
760-1307	mm. inch	34 1.33	19 .750	38 1.50
760-2110	mm. inch	54 2.12	25 1.00	52 2.05
760-2715	mm. inch	70 2.75	38 1.50	62 2.46
760-3320	mm. inch	86 3.38	51 2.00	82 3.22
760-4525	mm. inch	114 4.50	64 2.50	105 4.12
760-4630	mm. inch	117 4.62	76 3.00	90 3.53
760-6040	mm. inch	152 6.00	102 4.00	135 5.31
760-6750	mm. inch	171 6.75	127 5.00	120 4.71
760-8060	mm. inch	203 8.00	152 6.00	167 6.56
760-1080	mm. inch	254 10.00	203 8.00	191 7.50
760-1310	mm. inch	337 13.25	254 10.00	254 10.00



4-WAY CROSSES

5-WAY CROSSES

MODEL NUMBER		FLANGE O.D.	TUBE O.D.	A
765-1307	mm. inch	34 1.33	19 .750	38 1.50
765-2110	mm. inch	54 2.12	25 1.00	52 2.05
765-2715	mm. inch	70 2.75	38 1.50	62 2.46
765-3320	mm. inch	86 3.38	51 2.00	82 3.22
765-4525	mm. inch	114 4.50	64 2.50	105 4.12
765-4630	mm. inch	117 4.62	76 3.00	90 3.53
765-6040	mm. inch	152 6.00	102 4.00	135 5.31
765-6750	mm. inch	171 6.75	127 5.00	120 4.71
765-8060	mm. inch	203 8.00	152 6.00	167 6.56
765-1080	mm. inch	254 10.00	203 8.00	191 7.50
765-1310	mm. inch	337 13.25	254 10.00	254 10.00



5-WAY CROSSES

Due to ongoing product development, prices/dimensions subject to change without notice.

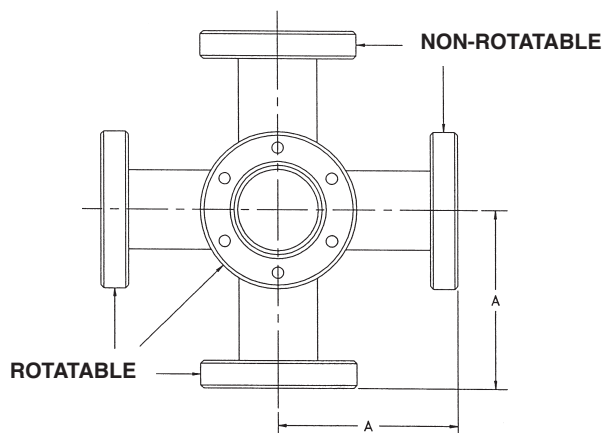
700 Series Standard Vacuum Fittings

CF-F PORT FLANGE MODELS

Crosses & Cubes

6-WAY CROSSES

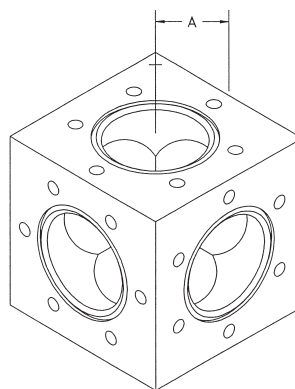
MODEL NUMBER		FLANGE O.D.	TUBE O.D.	A
770-1307	mm. inch	34 1.33	19 .750	38 1.50
770-2110	mm. inch	54 2.12	25 1.00	52 2.05
770-2715	mm. inch	70 2.75	38 1.50	62 2.46
770-3320	mm. inch	86 3.38	51 2.00	82 3.22
770-4525	mm. inch	114 4.50	64 2.50	105 4.12
770-4630	mm. inch	117 4.62	76 3.00	90 3.53
770-6040	mm. inch	152 6.00	102 4.00	135 5.31
770-6750	mm. inch	171 6.75	127 5.00	120 4.71
770-8060	mm. inch	203 8.00	152 6.00	167 6.56
770-1080	mm. inch	254 10.00	203 8.00	191 7.50
770-1310	mm. inch	337 13.25	254 10.00	254 10.00



6-WAY CROSSES

6-WAY CUBES

MODEL NUMBER		FLANGE O.D.	A
775-1306	mm. inch	34 1.33	17 .67
775-2715	mm. inch	70 2.75	35 1.38
775-4525	mm. inch	114 4.50	57 2.24
775-6040	mm. inch	152 6.00	76 2.98
775-8060	mm. inch	203 8.00	101 3.98



6-WAY CUBES

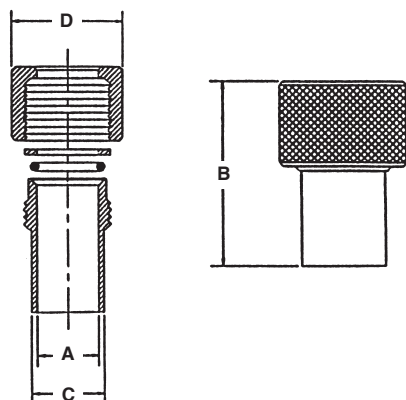
Due to ongoing product development, prices/dimensions subject to change without notice.

700 Series Standard Vacuum Fittings

MISCELLANEOUS HARDWARE

Stainless Steel Quick Disconnects

MODEL NUMBER	TUBE O.D.		A	B	C	D	BLANK-OFF PLUGS MODEL NO.
727-0010	2 .062	mm. inch	2 .07	33 1.31	9 .375	13 .500	728-0010
727-0020	3 .125	mm. inch	3 .13	33 1.31	9 .375	13 .500	728-0020
727-0030	5 .187	mm. inch	5 .19	33 1.31	9 .375	16 .625	728-0030
727-0040	6 .250	mm. inch	7 .26	33 1.31	9 .375	16 .625	728-0040
727-0050	8 .312	mm. inch	8 .32	33 1.31	13 .500	23 .89	728-0050
727-0060	9 .375	mm. inch	10 .39	33 1.31	13 .500	23 .89	728-0060
727-0070	13 .500	mm. inch	13 .51	35 1.38	16 .625	24 .94	728-0070
727-0080	16 .625	mm. inch	16 .64	38 1.50	19 .750	30 1.19	728-0080
727-0090	19 .750	mm. inch	19 .76	41 1.62	22 .875	35 1.38	728-0090
727-0100	22 .875	mm. inch	23 .89	44 1.75	25 1.00	37 1.44	728-0100
727-0110	25 1.00	mm. inch	26 1.01	48 1.88	28 1.12	41 1.62	728-0110
727-0120	28 1.125	mm. inch	29 1.14	51 2.00	32 1.37	44 1.75	728-0120
727-0130	32 1.250	mm. inch	32 1.26	57 2.25	38 1.50	48 1.88	728-0130
727-0140	35 1.375	mm. inch	35 1.38	60 2.38	41 1.62	51 2.00	728-0140
727-0150	38 1.50	mm. inch	38 1.51	64 2.50	44 1.75	57 2.25	728-0150
727-0160	41 1.625	mm. inch	41 1.63	65 2.56	48 1.87	60 2.38	728-0160
727-0170	51 2.00	mm. inch	51 2.01	67 2.62	57 2.25	70 2.75	728-0170



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prices/dimensions subject to change
without notice.

700 Series Standard Vacuum Fittings

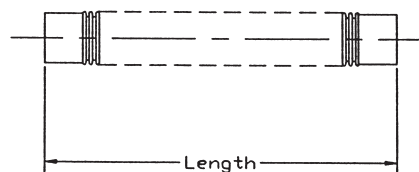
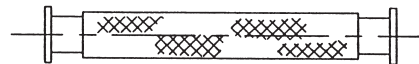
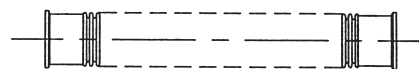
MISCELLANEOUS HARDWARE

Flexible Hoses

Stainless steel vacuum hose is available in .750" to 3.0" diameters in standard lengths of 18", 24" and 36".

Other sizes available upon request.

- Thin wall .008" flexible Stainless Steel hose
- Stainless Steel Bellows
- Protective S/S braid optional for sizes .750" to 2.0" O.D.
- Available with nipples both ends, KF Flanges and CF flanges. Special sizes available upon request.



MODEL NUMBER		NOM O.D.	LENGTH	DESCRIPTION
785-1800	mm. inch	19 .750	457 18.00	Nipples both ends
785-2400	mm. inch	19 .750	610 24.00	Nipples both ends
785-3600	mm. inch	19 .750	914 36.00	Nipples both ends

MODEL NUMBER		NOM O.D.	LENGTH	DESCRIPTION
785-1804	mm. inch	38 1.50	457 18.00	Nipples both ends
785-2404	mm. inch	38 1.50	610 24.00	Nipples both ends
785-3604	mm. inch	38 1.50	914 36.00	Nipples both ends

MODEL NUMBER		NOM O.D.	LENGTH	DESCRIPTION
785-1810	mm. inch	51 2.00	457 18.00	Nipples both ends
785-2410	mm. inch	51 2.00	610 24.00	Nipples both ends
785-3610	mm. inch	51 2.00	914 36.00	Nipples both ends

MODEL NUMBER		NOM O.D.	LENGTH	DESCRIPTION
785-1814	mm. inch	76 3.00	457 18.00	Nipples both ends
785-2414	mm. inch	76 3.00	610 24.00	Nipples both ends
785-3614	m n. inch	76 3.00	914 36.00	Nipples both ends

Due to ongoing product development, prices/dimensions subject to change without notice.

700 Series Standard Vacuum Fittings

MISCELLANEOUS HARDWARE

KF Flexible Hoses

MODEL NUMBER		NOM O.D.	LENGTH	SIZE DESCRIPTION
785-1817	mm. inch	38 1.50	457 18.00	KF 40 on one port
785-1818	mm. inch	38 1.50	457 18.00	KF 40 on both ports
785-2417	mm. inch	38 1.50	610 24.00	KF 40 on one port
785-2418	mm. inch	38 1.50	610 24.00	KF 40 on both ports
785-3617	mm. inch	38 1.50	914 36.00	KF 40 on one port
785-3618	mm. inch	38 1.50	914 36.00	KF 40 on both ports

CF-F Flexible Hoses

SPECIFICATIONS:

Stainless steel vacuum hose is available in .750" to 3.0" diameters with CF Flanges in standard lengths of 18", 24" and 36". Other sizes available upon request.

- Supplied with one Rotatable and one Non-Rotatable Flange
- Flexible Stainless Steel
- Stainless Steel Bellows
- Braided hose optional for sizes .750" to 2.0" O.D.

MODEL NUMBER		NOM O.D.	LENGTH	SIZE DESCRIPTION
785-1801	mm. inch	19 .750	457 18.00	34 1.33 O.D. on one port
785-1802	mm. inch	19 .750	457 18.00	34 1.33 O.D. on two ports
785-2401	mm. inch	19 .750	610 24.00	34 1.33 O.D. on one port
785-2402	mm. inch	19 .750	610 24.00	34 1.33 O.D. on two ports
785-3601	mm. inch	19 .750	914 36.00	34 1.33 O.D. on one port
785-3602	mm. inch	19 .750	914 36.00	34 1.33 O.D. on two ports

NOTE: Contact factory for special requirements.

Due to ongoing product development, prices/dimensions subject to change without notice.

700 Series Standard Vacuum Fittings

MISCELLANEOUS HARDWARE

CF-F Flexible Hoses . . . *continued*

MODEL NUMBER		NOM O.D.	LENGTH	SIZE DESCRIPTION
785-1805	mm. inch	38 1.50	457 18.00	70 2.75 O.D. on one port
785-1806	mm. inch	38 1.50	457 18.00	70 2.75 O.D. on two ports
785-2405	mm. inch	38 1.50	610 24.00	70 2.75 O.D. on one port
785-2406	mm. inch	38 1.50	610 24.00	70 2.75 O.D. on two ports
785-3605	mm. inch	38 1.50	914 36.00	70 2.75 O.D. on one port
785-3606	mm. inch	38 1.50	914 36.00	70 2.75 O.D. on two ports

MODEL NUMBER		NOM O.D.	LENGTH	SIZE DESCRIPTION
785-1811	mm. inch	51 2.00	457 18.00	86 3.38 O.D. on one port
785-1812	mm. inch	51 2.00	457 18.00	86 3.38 O.D. on two ports
785-2411	mm. inch	51 2.00	610 24.00	86 3.38 O.D. on one port
785-2412	mm. inch	51 2.00	610 24.00	86 3.38 O.D. on two ports
785-3611	mm. inch	51 2.00	914 36.00	86 3.38 O.D. on one port
785-3612	mm. inch	51 2.00	914 36.00	86 3.38 O.D. on two ports

MODEL NUMBER		NOM O.D.	LENGTH	SIZE DESCRIPTION
785-1815	mm. inch	76 3.00	457 18.00	117 4.62 O.D. on one port
785-1816	mm. inch	76 3.00	457 18.00	117 4.62 O.D. on two ports
785-2415	mm. inch	76 3.00	610 24.00	117 4.62 O.D. on one port
785-2416	mm. inch	76 3.00	610 24.00	117 4.62 O.D. on two ports
785-3615	mm. inch	76 3.00	914 36.00	117 4.62 O.D. on one port
785-3616	mm. inch	76 3.00	914 36.00	117 4.62 O.D. on two ports

NOTE: Contact factory for special requirements.

Due to ongoing product development, prices/dimensions subject to change without notice.

700 Series Standard Vacuum Fittings

MISCELLANEOUS HARDWARE

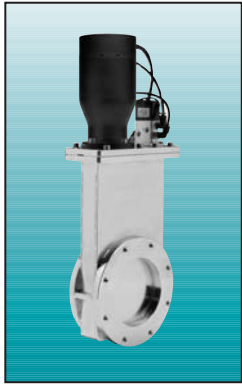
Stainless Steel Tubing

MODEL NUMBER		NOM O.D.	NOM I.D.	WALL THICKNESS (in.)
610-0001	mm. inch	6 .250	5 .18	.035
610-0046	mm. inch	13 .500	11 .43	.035
610-0020	mm. inch	19 .750	17 .68	.035
610-0012	mm. inch	25 1.00	22 .87	.065
610-0047	mm. inch	32 1.25	28 1.12	.065
610-0016	mm. inch	38 1.50	35 1.37	.065
610-0019	mm. inch	51 2.00	47 1.87	.065
610-0029	mm. inch	64 2.50	60 2.37	.065
610-0030	mm. inch	76 3.00	73 2.87	.065
610-0032	mm. inch	102 4.00	98 3.87	.065
610-0038	mm. inch	152 6.00	148 5.83	.083
610-0033	mm. inch	203 8.00	197 7.75	.120
610-0044	mm. inch	254 10.00	248 9.75	.120

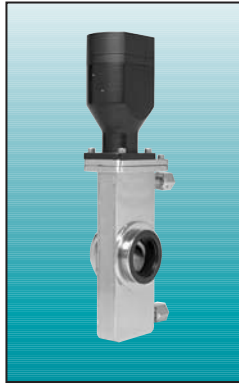
NOTE: Tubing priced per foot. There is a cutting charge based upon number of cuts and tube size. Tubing complies to industry standard tolerances.

Due to ongoing product development, prices/dimensions subject to change without notice.

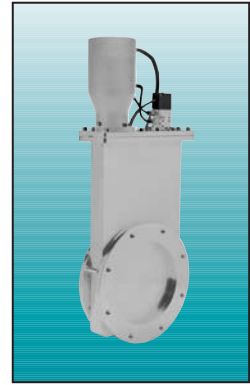
See our other product brochures!



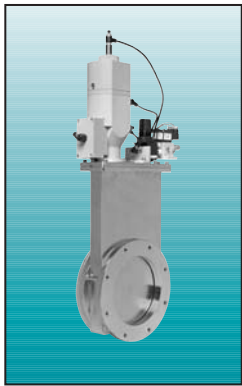
11000 SERIES
Stainless Steel Gate Valves



13000 SERIES
Laminar Flow Series



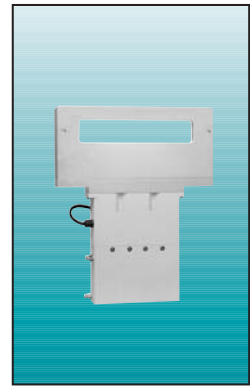
21200 SERIES
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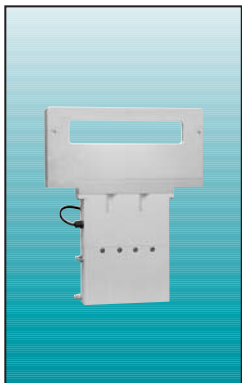
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*Million Cycle 3-Position
Gate Valves*



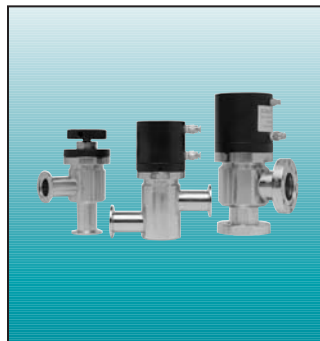
21800 SERIES
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Throttle Gate Valves*



22000 SERIES
*Stainless Steel Rectangular
Valves*



82000 SERIES
*Aluminum Rectangular
Valves*



14000/15000 SERIES
*Stainless Steel Angle/Inline
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KF AND ISO PORT FLANGE MODELS

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