

COMPONENTS • MANUFACTURING • ASSEMBLY • TESTING

ONE Trusted SOURCE



Vacuum

Components



Tube

Bright Annealed (BA)

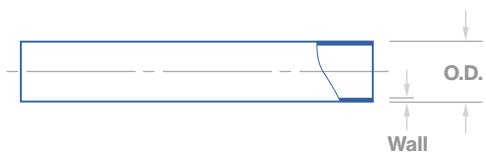


Part Number	
316L	304L
CS-1/2X.049-BA	DS-1/2X.049-BA
CW-3/4X.065-BA	DW-3/4X.065-BA
CW-1X.065-BA	DW-1X.065-BA
CW-1-1/2X.065-BA	DW-1-1/2X.065-BA
CW-2X.065-BA	DW-2X.065-BA
CW-2-1/2X.065-BA	DW-2-1/2X.065-BA
CW-3X.065-BA	DW-3X.065-BA
CW-4X.083-BA	DW-4X.083-BA
CW-6X.083-BA	DW-6X.083-BA

Dimensions in Inches & Millimeters			
Nominal Size (O.D.)		Wall	
inch	mm	inch	mm
1/2"	12.70	0.049	1.24
3/4"	19.05	0.065	1.65
1"	25.40	0.065	1.65
1-1/2"	38.10	0.065	1.65
2"	50.80	0.065	1.65
2-1/2"	63.50	0.065	1.65
3"	76.20	0.065	1.65
4"	101.60	0.083	2.11
6"	152.40	0.083	2.11

Tube

Electropolished (EP)

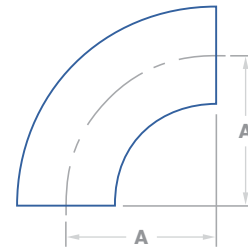


Part Number
316L
T4A-0W-01000-065B0
T4A-0W-01500-065B0
T4A-0W-02000-065B0
T4A-0W-02500-065B0
T4A-0W-03000-065B0
T4A-0W-04000-083B0
T4A-0W-06000-109B0

Dimensions in Inches & Millimeters			
Nominal Size (O.D.)		Wall	
inch	mm	inch	mm
1"	25.40	0.065	1.65
1-1/2"	38.10	0.065	1.65
2"	50.80	0.065	1.65
2-1/2"	63.50	0.065	1.65
3"	76.20	0.065	1.65
4"	101.60	0.083	2.11
6"	152.40	0.109	2.77



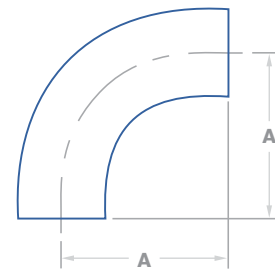
90° Elbow No Tangent



Part Number	Dimensions in Inches & Millimeters			
	Nominal Size		A	
	inch	mm	inch	mm
V*-2-W12	3/4"	19.05	1.125	28.58
V*-2-W16	1"	25.40	1.500	38.10
V*-2-W24	1-1/2"	38.10	2.250	57.15
V*-2-W32	2"	50.80	3.000	76.20
V*-2-W40	2-1/2"	63.50	3.750	95.25
V*-2-W48	3"	76.20	4.500	114.30
V*-2-W64	4"	101.60	6.000	152.40
V*-2-W96	6"	152.40	9.000	228.60

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

90° Elbow with Tangent



Part Number	Dimensions in Inches & Millimeters			
	Nominal Size		A	
	inch	mm	inch	mm
V*-2T-W12	3/4"	19.05	3.000	76.20
V*-2T-W16	1"	25.40	2.063	52.40
V*-2T-W24	1-1/2"	38.10	2.938	74.63
V*-2T-W32	2"	50.80	4.063	103.20
V*-2T-W40	2-1/2"	63.50	5.188	131.78
V*-2T-W48	3"	76.20	6.313	160.35
V*-2T-W64	4"	152.40	8.313	211.15

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

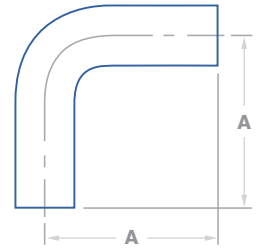


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Components

Butt-weld Elbows

90° Elbow Extended Tangent

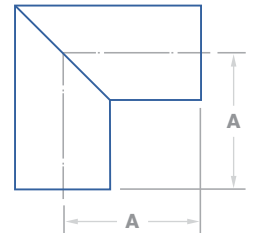


Part Number	Dimensions in Inches & Millimeters			
	Nominal Size		A	
	inch	mm	inch	mm
V*-2L-W12	3/4"	19.05	3.000	76.20
V*-2L-W16	1"	25.40	3.000	76.20
V*-2L-W24	1-1/2"	38.10	4.500	114.30
V*-2L-W32	2"	50.80	5.750	146.05
V*-2L-W40	2-1/2"	63.50	5.188	131.78
V*-2L-W48	3"	76.20	6.313	160.35
V*-2L-W64	4"	101.60	8.313	211.15

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L

Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

90° Elbow Mitered



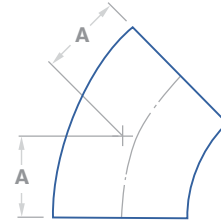
Part Number	Dimensions in Inches & Millimeters			
	Nominal Size		A	
	inch	mm	inch	mm
V*-2M-W12	3/4"	19.05	1.000	25.40
V*-2M-W16	1"	25.40	1.880	47.75
V*-2M-W24	1-1/2"	38.10	2.250	57.15
V*-2X-W24	1-1/2"	38.10	2.410	61.21
V*-2M-W32	2"	50.80	2.610	66.29
V*-2X-W32	2"	50.80	3.000	76.20
V*-2M-W40	2-1/2"	63.50	3.000	76.20
V*-2X-W40	2-1/2"	63.50	3.750	95.25
V*-2M-W48	3"	76.20	3.250	82.55
V*-2X-W48	3"	76.20	3.880	98.55
V*-2M-W64	4"	101.60	4.250	107.95
V*-2X-W64	4"	101.60	4.870	123.70
V*-2M-W96	6"	152.40	5.000	127.00
V*-2X-W96	6"	152.40	6.060	153.92

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L

Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



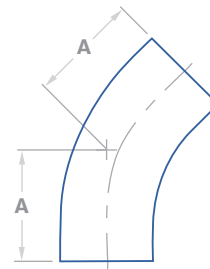
45° Elbow No Tangent



Part Number	Dimensions in Inches & Millimeters			
	Nominal Size		A	
	inch	mm	inch	mm
V*-2K-W12	3/4"	19.05	0.469	11.92
V*-2K-W16	1"	25.40	0.625	15.88
V*-2K-W24	1-1/2"	38.10	0.938	23.83
V*-2K-W32	2"	50.80	1.250	31.75
V*-2K-W40	2-1/2"	63.50	1.563	39.70
V*-2K-W48	3"	76.20	1.875	47.63
V*-2K-W64	4"	101.60	2.500	63.50
V*-2K-W96	6"	152.40	3.750	95.25

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

45° Elbow with Tangent



Part Number	Dimensions in Inches & Millimeters			
	Nominal Size		A	
	inch	mm	inch	mm
V*-2N-W12	3/4"	19.05	2.250	57.15
V*-2N-W16	1"	25.40	1.188	30.18
V*-2N-W24	1-1/2"	38.10	1.625	41.28
V*-2N-W32	2"	50.80	2.313	58.75
V*-2N-W40	2-1/2"	63.50	3.000	76.20
V*-2N-W48	3"	76.20	3.688	93.68
V*-2N-W64	4"	101.60	4.813	122.25

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

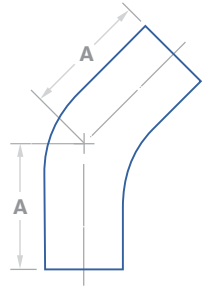


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Buttweld Elbows

45° Elbow with Extended Tangent



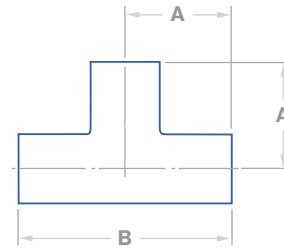
Part Number	Dimensions in Inches & Millimeters			
	Nominal Size		A	
	inch	mm	inch	mm
V*-2E-W12	3/4"	19.05	2.250	57.15
V*-2E-W16	1"	25.40	2.250	57.15
V*-2E-W24	1-1/2"	38.10	3.000	76.20
V*-2E-W32	2"	50.80	3.250	82.55
V*-2E-W40	2-1/2"	63.50	3.625	92.08
V*-2E-W48	3"	76.20	3.688	93.68
V*-2E-W64	4"	101.60	4.813	122.25

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L

Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



Equal Tee



Part Number	Dimensions in Inches & Millimeters					
	Nominal Size		A		B	
	inch	mm	inch	mm	inch	mm
V*-7-W12	3/4"	19.05	1.875	47.63	3.750	95.25
V*-7-W16	1"	25.40	1.875	47.63	3.750	95.25
V*-7-W24	1-1/2"	38.10	2.250	57.15	4.500	114.30
V*-7-W32	2"	50.80	3.000	76.20	6.000	152.40
V*-7-W40	2-1/2"	63.50	3.000	76.20	6.000	152.40
V*-7-W48	3"	76.20	3.250	82.55	6.500	165.10
V*-7-W64	4"	101.60	3.875	98.43	7.750	196.85
V*-7-W96	6"	152.40	5.000	127.00	10.000	254.00

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

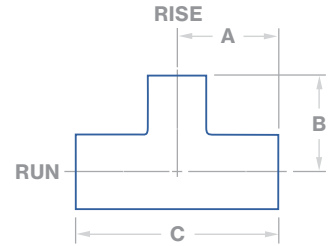


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Components

Buttweld Tees

Reducing Tee



Part Number
V*-7R-W16XW12
V*-7R-W24XW12
V*-7R-W24XW16
V*-7R-W32XW12
V*-7R-W32XW16
V*-7R-W32XW24
V*-7R-W40XW24
V*-7R-W40XW32
V*-7R-W48XW24
V*-7R-W48XW32
V*-7R-W48XW40
V*-7R-W64XW32
V*-7R-W64XW40
V*-7R-W64XW48
V*-7R-W96XW48
V*-7R-W96XW64

Dimensions in Inches				
Nominal Size		A	B	C
RUN	RISE			
1"	3/4"	1.875	2.125	3.750
1-1/2"	3/4"	2.250	2.250	4.500
1-1/2"	1"	2.250	2.375	4.500
2"	3/4"	3.000	2.375	6.000
2"	1"	3.000	2.375	6.000
2"	1-1/2"	3.000	2.500	6.000
2-1/2"	1-1/2"	3.000	2.750	6.000
2-1/2"	2"	3.000	3.250	6.000
3"	1-1/2"	3.250	3.000	6.500
3"	2"	3.250	3.500	6.500
3"	2-1/2"	3.250	3.250	6.500
4"	2"	3.875	4.000	7.750
4"	2-1/2"	3.875	3.750	7.750
4"	3"	3.875	3.750	7.750
6"	3"	5.000	4.750	10.000
6"	4"	5.000	4.875	10.000

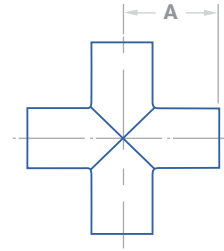
Part Number
V*-7R-W16XW12
V*-7R-W24XW12
V*-7R-W24XW16
V*-7R-W32XW12
V*-7R-W32XW16
V*-7R-W32XW24
V*-7R-W40XW24
V*-7R-W40XW32
V*-7R-W48XW24
V*-7R-W48XW32
V*-7R-W48XW40
V*-7R-W64XW32
V*-7R-W64XW40
V*-7R-W64XW48
V*-7R-W96XW48
V*-7R-W96XW64

Dimensions in Millimeters				
Nominal Size		A	B	C
RUN	RISE			
25.40	19.05	47.63	53.98	95.25
38.10	19.05	57.15	57.15	114.30
38.10	25.40	57.15	60.33	114.30
50.80	19.05	76.20	60.33	152.40
50.80	25.40	76.20	60.33	152.40
50.80	38.10	76.20	63.50	152.40
63.50	38.10	76.20	69.85	152.40
63.50	50.80	76.20	82.55	152.40
76.20	38.10	82.55	76.20	165.10
76.20	50.80	82.55	88.90	165.10
76.20	63.50	82.55	82.55	165.10
101.60	50.80	98.43	101.60	196.85
101.60	63.50	98.43	95.25	196.85
101.60	76.20	98.43	95.25	196.85
152.40	76.20	127.00	120.65	254.00
152.40	101.60	127.00	123.83	254.00

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
 Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



4-Way Cross



Part Number	Dimensions in Inches & Millimeters			
	Nominal Size		A	
	inch	mm	inch	mm
V*-9-W12	3/4"	19.05	1.875	47.63
V*-9-W16	1"	25.40	1.875	47.63
V*-9-W24	1-1/2"	38.10	2.250	57.15
V*-9-W32	2"	50.80	3.000	76.20
V*-9-W40	2-1/2"	63.50	3.000	76.20
V*-9-W48	3"	76.20	3.250	82.55
V*-9-W64	4"	101.60	3.875	98.43
V*-9-W96	6"	152.40	5.000	127.00

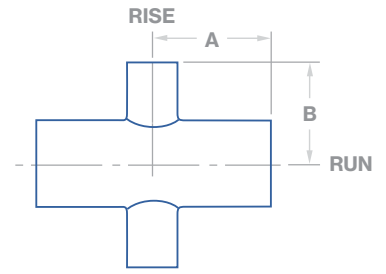
* Standard Finish: VA = 304, VD = 304L , VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



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Vacuum
Components

Buttweld Crosses

4-Way Reducing Cross



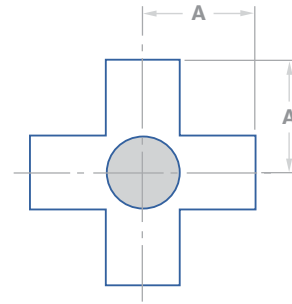
Part Number	Dimensions in Inches			
	Nominal Size		A	B
	RUN	RISE		
V*-9R-W16XW12	1"	3/4"	1.880	1.120
V*-9R-W24XW12	1-1/2"	3/4"	2.250	1.380
V*-9R-W24XW16	1-1/2"	1"	2.250	2.130
V*-9R-W32XW12	2"	3/4"	3.000	1.630
V*-9R-W32XW24	2"	1-1/2"	3.000	2.500
V*-9R-W40XW24	2-1/2"	1-1/2"	3.000	2.750
V*-9R-W40XW32	2-1/2"	2"	3.000	3.250
V*-9R-W48XW24	3"	1-1/2"	3.250	3.000
V*-9R-W64XW24	4"	1-1/2"	3.880	3.500
V*-9R-W64XW32	4"	2"	3.880	4.000
V*-9R-W64XW40	4"	2-1/2"	3.880	3.750
V*-9R-W64XW48	4"	3"	3.880	3.750
V*-9R-W96XW24	6"	1-1/2"	5.000	4.500
V*-9R-W96XW32	6"	2"	5.000	5.000
V*-9R-W96XW40	6"	2-1/2"	5.000	4.750
V*-9R-W96XW48	6"	3"	5.000	4.750
V*-9R-W96XW64	6"	4"	5.000	4.880

Part Number	Dimensions in Millimeters			
	Nominal Size		A	B
	RUN	RISE		
V*-9R-W16XW12	25.40	19.05	47.75	28.45
V*-9R-W24XW12	38.10	19.05	57.15	35.05
V*-9R-W24XW16	38.10	25.40	57.15	54.10
V*-9R-W32XW12	50.80	19.05	76.20	41.40
V*-9R-W32XW24	50.80	38.10	76.20	63.50
V*-9R-W40XW24	63.50	38.10	76.20	69.85
V*-9R-W40XW32	63.50	50.80	76.20	82.55
V*-9R-W48XW24	76.20	38.10	82.55	76.20
V*-9R-W64XW24	101.60	38.10	98.55	88.90
V*-9R-W64XW32	101.60	50.80	98.55	101.60
V*-9R-W64XW40	101.60	63.50	98.55	95.25
V*-9R-W64XW48	101.60	76.20	98.55	95.25
V*-9R-W96XW24	152.40	38.10	127.00	114.30
V*-9R-W96XW32	152.40	50.80	127.00	127.00
V*-9R-W96XW40	152.40	63.50	127.00	120.65
V*-9R-W96XW48	152.40	76.20	127.00	120.65
V*-9R-W96XW64	152.40	101.60	127.00	123.95

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



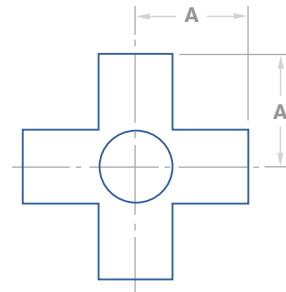
5-Way Cross



Part Number	Dimensions in Inches & Millimeters			
	Nominal Size		A	
	inch	mm	inch	mm
V*-9F-W12	3/4"	19.05	1.000	25.40
V*-9F-W16	1"	25.40	1.880	47.75
V*-9F-W24	1-1/2"	38.10	2.250	57.15
V*-9F-W32	2"	50.80	3.000	76.20
V*-9F-W40	2-1/2"	63.50	3.000	76.20
V*-9F-W48	3"	76.20	3.250	82.55
V*-9F-W64	4"	101.60	3.880	98.55
V*-9F-W96	6"	152.40	5.000	127.00

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

6-Way Cross



Part Number	Dimensions in Inches & Millimeters			
	Nominal Size		A	
	inch	mm	inch	mm
V*-9S-W12	3/4"	19.05	1.000	25.40
V*-9S-W16	1"	25.40	1.880	47.75
V*-9S-W24	1-1/2"	38.10	2.250	57.15
V*-9S-W32	2"	50.80	3.000	76.20
V*-9S-W40	2-1/2"	63.50	3.000	76.20
V*-9S-W48	3"	76.20	3.250	82.55
V*-9S-W64	4"	101.60	3.880	98.55
V*-9S-W96	6"	152.40	5.000	127.00

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

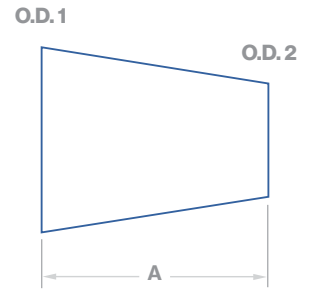


Valex

Vacuum
Components

Butt-weld Reducers

Concentric Reducer

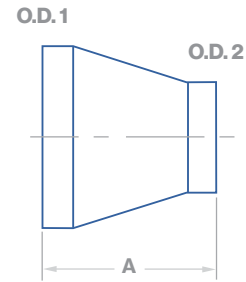


Part Number	Dimensions in Inches & Millimeters					
	O.D.1		O.D.2		A	
	inch	mm	inch	mm	inch	mm
V*-31-W12XW08	3/4"	19.05	1/2"	12.70	1.000	25.40
V*-31-W16XW08	1"	25.40	1/2"	12.70	1.500	38.10
V*-31-W16XW12	1"	25.40	3/4"	19.05	1.000	25.40
V*-31-W24XW08	1-1/2"	38.10	1/2"	12.70	3.500	88.90
V*-31-W24XW12	1-1/2"	38.10	3/4"	19.05	3.000	76.20
V*-31-W24XW16	1-1/2"	38.10	1"	25.40	2.000	50.80
V*-31-W32XW16	2"	50.80	1"	25.40	4.000	101.60
V*-31-W32XW24	2"	50.80	1-1/2"	38.10	2.000	50.80
V*-31-W40XW24	2-1/2"	63.50	1-1/2"	38.10	4.000	101.60
V*-31-W40XW32	2-1/2"	63.50	2"	50.80	2.000	50.80
V*-31-W48XW24	3"	76.20	1-1/2"	38.10	6.000	152.40
V*-31-W48XW32	3"	76.20	2"	50.80	4.000	101.60
V*-31-W48XW40	3"	76.20	2-1/2"	63.50	2.000	50.80
V*-31-W64XW24	4"	101.60	1-1/2"	38.10	10.000	254.00
V*-31-W64XW32	4"	101.60	2"	50.80	8.000	203.20
V*-31-W64XW40	4"	101.60	2-1/2"	63.50	6.000	152.40
V*-31-W64XW48	4"	101.60	3"	76.20	4.000	101.60
V*-31-W96XW48	6"	152.40	3"	76.20	6.000	152.40
V*-31-W96XW64	6"	152.40	4"	101.60	4.000	101.60

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
 Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



Concentric Reducer with Tangents



Part Number	Dimensions in Inches & Millimeters					
	O.D. 1		O.D. 2		A	
	inch	mm	inch	mm	inch	mm
V*-31T-W16XW12	1"	25.40	3/4"	19.05	2.375	60.33
V*-31T-W24XW16	1-1/2"	38.10	1"	25.40	2.375	60.33
V*-31T-W32XW16	2"	50.80	1"	25.40	2.375	60.33
V*-31T-W32XW24	2"	50.80	1-1/2"	38.10	2.375	60.33
V*-31T-W40XW24	2-1/2"	63.50	1-1/2"	38.10	2.375	60.33
V*-31T-W40XW32	2-1/2"	63.50	2"	50.80	2.375	60.33
V*-31T-W48XW24	3"	76.20	1-1/2"	38.10	3.625	92.08
V*-31T-W48XW32	3"	76.20	2"	50.80	3.625	92.08
V*-31T-W48XW40	3"	76.20	2-1/2"	63.50	3.625	92.08
V*-31T-W64XW24	4"	101.60	1-1/2"	38.10	5.500	139.70
V*-31T-W64XW32	4"	101.60	2"	50.80	3.625	92.08
V*-31T-W64XW40	4"	101.60	2-1/2"	63.50	3.625	92.08
V*-31T-W64XW48	4"	101.60	3"	76.20	3.625	92.08
V*-31T-W96XW48	6"	152.40	3"	76.20	5.500	139.70
V*-31T-W96XW64	6"	152.40	4"	101.60	5.500	139.70

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



Valex

Vacuum
Components

Buttweld
Caps

Weld Cap



Part Number	Dimensions in Inches & Millimeters			
	Nominal Size		A	
	inch	mm	inch	mm
V*-16-W12	3/4"	19.05	0.313	7.95
V*-16-W16	1"	25.40	0.469	11.91
V*-16-W24	1-1/2"	38.10	0.594	15.09
V*-16-W32	2"	50.80	0.781	19.84
V*-16-W40	2-1/2"	63.50	1.063	27.00
V*-16-W48	3"	76.20	1.094	27.79
V*-16-W64	4"	101.60	1.281	32.54
V*-16-W96	6"	152.40	2.125	53.98

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L

Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

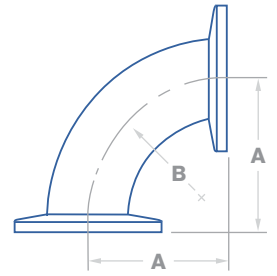


Valex

Vacuum
Components

NW Elbows

NW 90° Elbow

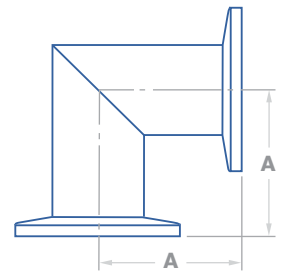


Part Number	Dimensions in Inches & Millimeters						
	Flange Size	Tube O.D.		A		B	
		NW	inch	mm	inch	mm	inch
V*-2-N1A	10	1/2"	12.70	1.25	31.75	0.75	19.05
V*-2-N1B	16	3/4"	19.05	1.15	29.21	1.00	25.40
V*-2-N1C	25	1"	25.40	1.65	41.91	1.50	38.10
V*-2-N1D	40	1-1/2"	38.10	2.40	60.96	2.25	57.15
V*-2T-N1D	40	1-1/2"	38.10	2.56	65.02	2.25	57.15
V*-2L-N1D	40	1-1/2"	38.10	5.12	130.05	2.25	57.15
V*-2-N1E	50	2"	50.80	3.15	80.01	3.00	76.20
V*-2T-N1E	50	2"	50.80	5.51	139.95	3.00	76.20

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L

Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

NW 90° Mitered Elbow



Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
		NW	inch	mm	inch
V*-2M-N1B	16	3/4"	19.05	1.15	29.21
V*-2M-N1C	25	1"	25.40	2.03	51.56
V*-2M-N1D	40	1-1/2"	38.10	2.40	60.96
V*-2X-N1D	40	1-1/2"	38.10	2.56	65.02
V*-2M-N1E	50	2"	50.80	2.76	70.10
V*-2X-N1E	50	2"	50.80	3.15	80.01

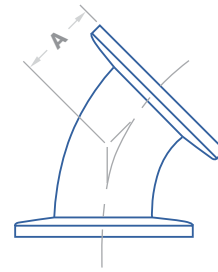
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L

Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW 45° Elbow

No Tangent

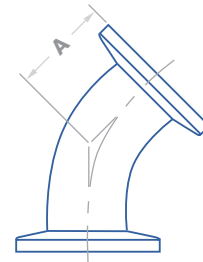


Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
	NW	inch	mm	inch	mm
V*-2K-N1C	25	1"	25.40	0.77	19.56
V*-2K-N1D	40	1-1/2"	38.10	1.08	27.43
V*-2K-N1E	50	2"	50.80	1.39	35.31

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

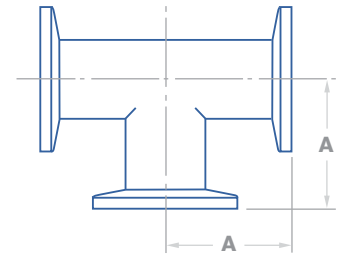
NW 45° Elbow

With Tangent



Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
	NW	inch	mm	inch	mm
V*-2N-N1B	16	3/4"	19.05	0.91	23.11
V*-2N-N1C	25	1"	25.40	1.12	28.45
V*-2N-N1D	40	1-1/2"	38.10	1.68	42.67
V*-2N-N1E	50	2"	50.80	1.99	50.55

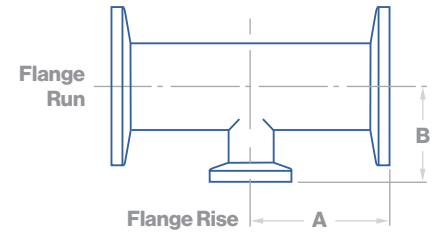
* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW Equal Tee

Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
	NW	inch	mm	inch	mm
V*-7-N1A	10	1/2"	12.70	1.25	31.75
V*-7-N1B	16	3/4"	19.05	1.15	29.21
V*-7-N1C	25	1"	25.40	2.03	51.56
V*-7-N1D	40	1-1/2"	38.10	2.40	60.96
V*-7L-N1D	40	1-1/2"	38.10	2.56	65.02
V*-7-N1E	50	2"	50.80	2.76	70.10
V*-7L-N1E	50	2"	50.80	3.15	80.01

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW Reducing Tee

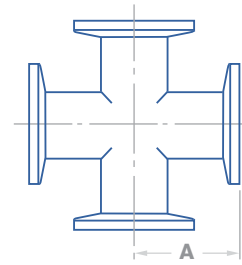
Part Number	Dimensions in Inches					
	Size Run	Size Rise	Tube Run O.D.	Tube Rise O.D.	A	B
	NW	NW				
V*-7R-N1CXN1B	25	16	1"	3/4"	2.03	1.27
V*-7R-N1DXN1B	40	16	1-1/2"	3/4"	2.40	1.53
V*-7R-N1DXN1C	40	25	1-1/2"	1"	2.40	2.28
V*-7R-N1EXN1B	50	16	2"	3/4"	3.15	1.78
V*-7R-N1EXN1D	50	40	2"	1-1/2"	3.15	2.65

Part Number	Dimensions in Millimeters					
	Size Run	Size Rise	Tube Run O.D.	Tube Rise O.D.	A	B
	NW	NW				
V*-7R-N1CXN1B	25	16	25.40	19.05	51.56	32.26
V*-7R-N1DXN1B	40	16	38.10	19.05	60.96	38.86
V*-7R-N1DXN1C	40	25	38.10	25.40	60.96	57.91
V*-7R-N1EXN1B	50	16	50.80	19.05	80.01	45.21
V*-7R-N1EXN1D	50	40	50.80	38.10	80.01	67.31

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



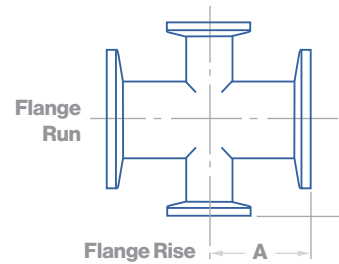
NW 4-Way Cross



Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
	NW	inch	mm	inch	mm
V*-9-N1A	10	1/2"	12.70	1.25	31.75
V*-9-N1B	16	3/4"	19.05	1.15	29.21
V*-9-N1C	25	1"	25.40	2.03	51.56
V*-9-N1D	40	1-1/2"	38.10	2.40	60.96
V*-9L-N1D	40	1-1/2"	38.10	2.56	65.02
V*-9-N1E	50	2"	50.80	2.76	70.10
V*-9L-N1E	50	2"	50.80	3.15	80.01

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

NW 4-Way Reducing Cross



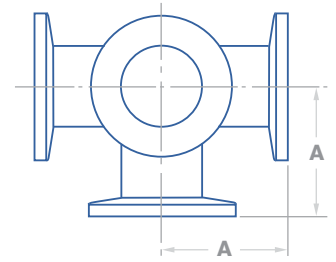
Part Number	Dimensions in Inches					
	Run Size	Rise Size	Tube Run O.D.	Tube Rise O.D.	A	B
	NW	NW				
V*-9R-N1CXN1B	25	16	1"	3/4"	2.03	1.27
V*-9R-N1DXN1B	40	16	1-1/2"	3/4"	2.40	1.53
V*-9R-N1DXN1C	40	25	1-1/2"	1"	2.40	2.28
V*-9R-N1EXN1B	50	16	2"	3/4"	3.15	1.78
V*-9R-N1EXN1D	50	40	2"	1-1/2"	3.15	2.65

Part Number	Dimensions in Millimeters					
	Run Size	Rise Size	Tube Run O.D.	Tube Rise O.D.	A	B
	NW	NW				
V*-9R-N1CXN1B	25	16	25.40	19.05	51.56	32.26
V*-9R-N1DXN1B	40	16	38.10	19.05	60.96	38.86
V*-9R-N1DXN1C	40	25	38.10	25.40	60.96	57.91
V*-9R-N1EXN1B	50	16	50.80	19.05	80.01	45.21
V*-9R-N1EXN1D	50	40	50.80	38.10	80.01	67.31

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



5th Leg Opposite

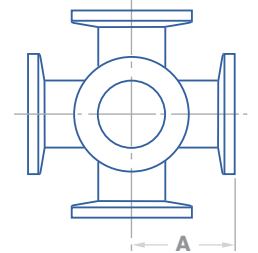


NW 5-Way Cross

Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
		NW	inch	mm	inch
V*-9F-N1B	16	3/4"	19.05	1.50	38.10
V*-9F-N1C	25	1"	25.40	2.03	51.56
V*-9F-N1D	40	1-1/2"	38.10	2.40	60.96
V*-9F-N1E	50	2"	50.80	3.15	80.01

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

6th Leg Opposite



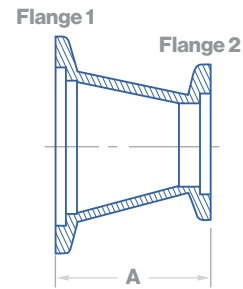
NW 6-Way Cross

Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
		NW	inch	mm	inch
V*-9S-N1B	16	3/4"	19.05	1.50	38.10
V*-9S-N1C	25	1"	25.40	2.03	51.56
V*-9S-N1D	40	1-1/2"	38.10	2.40	60.96
V*-9S-N1E	50	2"	50.80	3.15	80.01

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



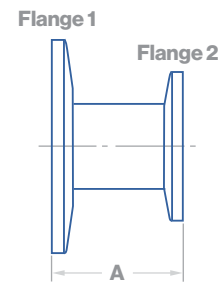
NW Concentric Reducer



Part Number	Dimensions in Inches & Millimeters							
	Flange 1	Flange 2	Tube O.D. 1		Tube O.D. 2		A	
			inch	mm	inch	mm	inch	mm
V*-31-N1CXN1B	25	16	1"	25.40	3/4"	19.05	1.57	39.88
V*-31-N1DXN1B	40	16	1-1/2"	38.10	3/4"	19.05	1.57	39.88
V*-31-N1DXN1C	40	25	1-1/2"	38.10	1"	25.40	1.57	39.88
V*-31-N1EXN1B	50	16	2"	50.80	3/4"	19.05	1.57	39.88
V*-31-N1EXN1C	50	25	2"	50.80	1"	25.40	1.57	39.88
V*-31-N1EXN1D	50	40	2"	50.80	1-1/2"	38.10	1.57	39.88

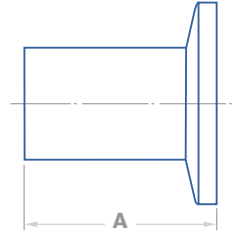
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

NW Straight Reducer



Part Number	Dimensions in Inches & Millimeters					
	Flange 1	Flange 2	Tube O.D.		A	
			NW	NW	inch	mm
V*-31S-N1BXN1A	16	10	1/2"	12.70	1.40	35.56
V*-31S-N1CXN1A	25	10	1/2"	12.70	1.40	35.56
V*-31S-N1CXN1B	25	16	3/4"	19.05	1.30	33.02
V*-31S-N1DXN1A	40	10	1/2"	12.70	1.40	35.56
V*-31S-N1DXN1B	40	16	3/4"	19.05	1.30	33.02
V*-31S-N1DXN1C	40	25	1"	25.40	2.18	55.37
V*-31S-N1EXN1A	50	10	1/2"	12.70	1.40	35.56
V*-31S-N1EXN1B	50	16	3/4"	19.05	1.30	33.02
V*-31S-N1EXN1C	50	25	1"	25.40	2.18	55.37
V*-31S-N1EXN1D	50	40	1-1/2"	38.10	2.55	64.77

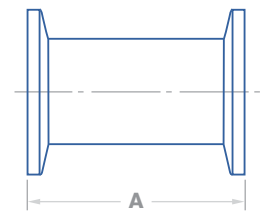
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW Half Nipple

Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
	NW	inch	mm	inch	mm
V*-6H-N1A	10	1/2"	12.70	1.25	31.75
V*-6H-N1B	16	3/4"	19.05	1.15	29.21
V*-6H-N1C	25	1"	25.40	2.03	51.56
V*-6H-N1D	40	1-1/2"	38.10	2.40	60.96
V*-6H-N1E	50	2"	50.80	3.15	80.01

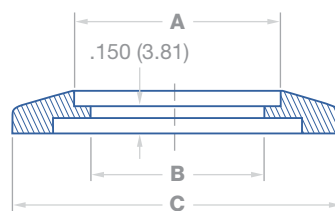
* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW Full Nipple

Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
	NW	inch	mm	inch	mm
V*-6F-N1A	10	1/2"	12.70	2.50	63.50
V*-6F-N1B	16	3/4"	19.05	2.30	58.42
V*-6F-N1C	25	1"	25.40	4.06	103.12
V*-6F-N1D	40	1-1/2"	38.10	4.80	121.92
V*-6F-N1E	50	2"	50.80	6.30	160.02

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW Bored Flange

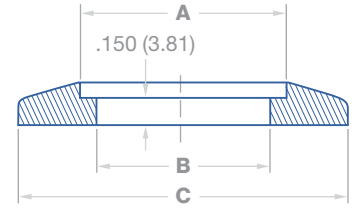
Part Number	Dimensions in Inches				
	Flange Size	Tube O.D.	A	B	C
	NW	inch			
V*-38B-N1AXW06	10	3/8"	0.38	0.326	1.180
V*-38B-N1AXW08	10	1/2"	0.51	0.451	1.180
V*-38B-N1BXW06	16	3/8"	0.38	0.326	1.180
V*-38B-N1BXW08	16	1/2"	0.51	0.451	1.180
V*-38B-N1CXW06	25	3/8"	0.38	0.326	1.575
V*-38B-N1CXW08	25	1/2"	0.51	0.451	1.575
V*-38B-N1CXW12	25	3/4"	0.76	0.715	1.575
V*-38B-N1CXW16	25	1"	1.01	0.938	1.575
V*-38B-N1DXW06	40	3/8"	0.38	0.326	2.160
V*-38B-N1DXW08	40	1/2"	0.51	0.451	2.160
V*-38B-N1DXW12	40	3/4"	0.76	0.715	2.160
V*-38B-N1DXW16	40	1"	1.01	0.938	2.160
V*-38B-N1DXW24	40	1-1/2"	1.51	1.438	2.160
V*-38B-N1EXW06	50	3/8"	0.38	0.326	2.950
V*-38B-N1EXW08	50	1/2"	0.51	0.451	2.950
V*-38B-N1EXW12	50	3/4"	0.76	0.715	2.950
V*-38B-N1EXW16	50	1"	1.01	0.938	2.950
V*-38B-N1EXW24	50	1-1/2"	1.51	1.438	2.950
V*-38B-N1EXW32	50	2"	2.01	1.938	2.950

Part Number	Dimensions in Millimeters				
	Flange Size	Tube O.D.	A	B	C
	NW	mm			
V*-38B-N1AXW06	10	9.53	9.65	8.28	29.97
V*-38B-N1AXW08	10	12.70	12.95	11.46	29.97
V*-38B-N1BXW06	16	9.53	9.65	8.28	29.97
V*-38B-N1BXW08	16	12.70	12.95	11.46	29.97
V*-38B-N1CXW06	25	9.53	9.65	8.28	40.01
V*-38B-N1CXW08	25	12.70	12.95	11.46	40.01
V*-38B-N1CXW12	25	19.05	19.30	18.16	40.01
V*-38B-N1CXW16	25	25.40	25.65	23.83	40.01
V*-38B-N1DXW06	40	9.53	9.65	8.28	54.86
V*-38B-N1DXW08	40	12.70	12.95	11.46	54.86
V*-38B-N1DXW12	40	19.05	19.30	18.16	54.86
V*-38B-N1DXW16	40	25.40	25.65	23.83	54.86
V*-38B-N1DXW24	40	38.10	38.35	36.53	54.86
V*-38B-N1EXW06	50	9.53	9.65	8.28	74.93
V*-38B-N1EXW08	50	12.70	12.95	11.46	74.93
V*-38B-N1EXW12	50	19.05	19.30	18.16	74.93
V*-38B-N1EXW16	50	25.40	25.65	23.83	74.93
V*-38B-N1EXW24	50	38.10	38.35	36.53	74.93
V*-38B-N1EXW32	50	50.80	51.05	49.23	74.93

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



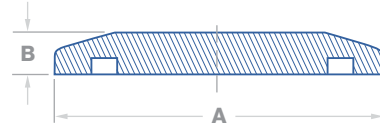
NW Bored Flange



Part Number	Dimensions in Inches				
	Flange Size NW	Tube O.D. inch	A	B	C
V*-38B-N1BXW12	16	3/4"	0.76	0.68	1.18

Part Number	Dimensions in Millimeters				
	Flange Size NW	Tube O.D. mm	A	B	C
V*-38B-N1BXW12	16	19.05	19.30	17.27	29.97

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

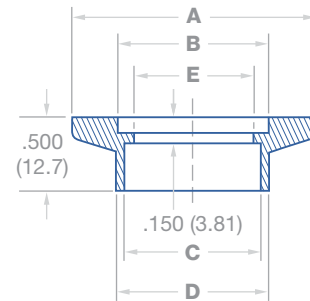


NW Blank Flange

Part Number	Dimensions in Inches & Millimeters				
	Flange Size	A		B	
		NW	inch	mm	inch
V*-38-N1A	10	1.180	29.97	0.200	5.08
V*-38-N1B	16	1.180	29.97	0.200	5.08
V*-38-N1C	25	1.575	40.01	0.200	5.08
V*-38-N1D	40	2.160	54.86	0.200	5.08
V*-38-N1E	50	2.950	74.93	0.200	5.08

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

NW Socket Weld Flange



Part Number	Dimensions in Inches						
	Flange Size	Tube O.D.	A	B	C	D	E
V*-38S-N1A	10	1/2"	1.180	0.480	0.51	0.610	N/A
V*-38S-N1B	16	3/4"	1.180	0.680	0.76	0.798	N/A
V*-38S-N1C	25	1"	1.575	1.031	1.01	1.140	0.938
V*-38S-N1D	40	1-1/2"	2.160	1.620	1.51	1.640	1.438
V*-38S-N1E	50	2"	2.950	2.060	2.01	2.140	1.938

Part Number	Dimensions in Millimeters						
	Flange Size	Tube O.D.	A	B	C	D	E
V*-38S-N1A	10	12.70	29.97	12.19	12.95	15.49	N/A
V*-38S-N1B	16	19.05	29.97	17.27	19.30	20.27	N/A
V*-38S-N1C	25	25.40	40.01	26.19	25.65	28.96	23.83
V*-38S-N1D	40	38.10	54.86	41.15	38.35	41.66	36.53
V*-38S-N1E	50	50.80	74.93	52.32	51.05	54.36	49.23

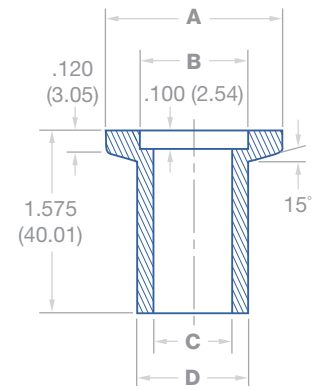
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



Valex
Vacuum
Components

NW Flanges

NW Weld Neck Bored Flange, Long



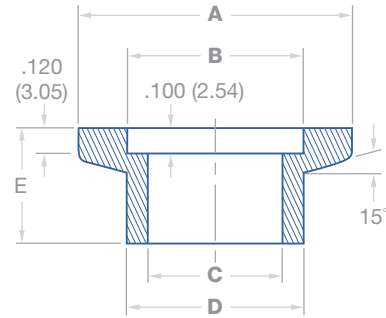
Part Number	Dimensions in Inches				
	Flange Size NW	A	B	C	D
V*-38L-N1A	10	1.180	0.480	0.380	1/2"
V*-38L-N1B	16	1.180	0.680	0.625	3/4"
V*-38L-N1C	25	1.575	1.031	0.870	1"
V*-38L-N1D	40	2.160	1.620	1.370	1-1/2"
V*-38L-N1E	50	2.950	2.060	1.870	2"

Part Number	Dimensions in Millimeters				
	Flange Size NW	A	B	C	D
V*-38L-N1A	10	29.97	12.19	9.65	12.70
V*-38L-N1B	16	29.97	17.27	15.88	19.05
V*-38L-N1C	25	40.01	26.19	22.10	25.40
V*-38L-N1D	40	54.86	41.15	34.80	38.10
V*-38L-N1E	50	74.93	52.32	47.50	50.80

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW Bored Weld Neck Flange, Short



Part Number	Dimensions in Inches						
	Flange Size NW	Tube O.D. inch	A	B	C	D	E
V*-38N-N1A	10	1/2"	1.180	0.48	0.380	0.50	0.50
V*-38N-N1B	16	3/4"	1.180	0.68	0.625	0.75	0.56
V*-38N-N1C	25	1"	1.575	1.03	0.870	1.00	0.50
V*-38N-N1D	40	1-1/2"	2.160	1.62	1.370	1.50	0.75
V*-38N-N1E	50	2"	2.950	2.06	1.870	2.00	0.75

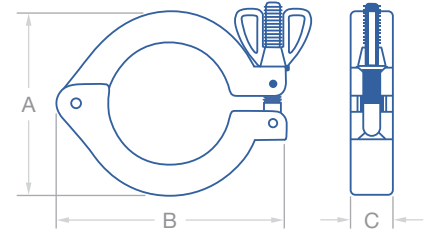
Part Number	Dimensions in Millimeters						
	Flange Size NW	Tube O.D. mm	A	B	C	D	E
V*-38N-N1A	10	12.70	29.97	12.19	9.65	12.70	12.70
V*-38N-N1B	16	19.05	29.97	17.27	15.88	19.05	14.22
V*-38N-N1C	25	25.40	40.01	26.19	22.10	25.40	12.70
V*-38N-N1D	40	38.10	54.86	41.15	34.80	38.10	19.05
V*-38N-N1E	50	50.80	74.93	52.32	47.50	50.80	19.05

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW Wing Nut Clamp

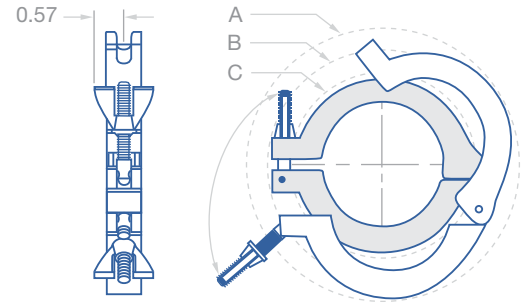
Aluminum with Single Wingnut Fastener



Part Number	Dimensions in Inches & Millimeters						
	Flange Size	A		B		C	
		NW	inch	mm	inch	mm	inch
V0-13W-N1A-CA	10	1.69	42.93	2.392	60.76	0.625	15.88
V0-13W-N1B-CA	16	1.69	42.93	2.392	60.76	0.625	15.88
V0-13W-N1C-CA	25	2.14	54.36	2.796	71.02	0.625	15.88
V0-13W-N1D-CA	40	2.75	69.85	3.437	87.30	0.625	15.88
V0-13W-N1E-CA	50	3.50	88.90	4.245	107.82	0.710	18.03

Clearance Details

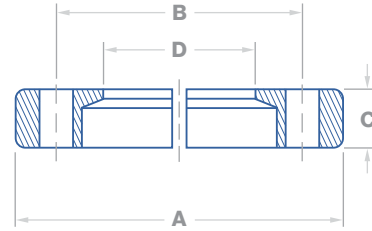
(KF Blank Flange & KF Wing Nut Clamp)



Components		Dimensions in Inches			
Flange	Clamp	Flange & Clamp Size	A (Min. Diameter to Install)	B (Min. Diameter Closed)	C (Min. Diameter Closed)
V*-38-N1A	V0-13W-N1A-CA	NW 10	2.86	2.65	1.75
V*-38-N1B	V0-13W-N1B-CA	NW 16	2.86	2.65	1.75
V*-38-N1C	V0-13W-N1C-CA	NW 25	3.32	3.00	2.24
V*-38-N1D	V0-13W-N1D-CA	NW 40	4.00	3.72	2.90
V*-38-N1E	V0-13W-N1E-CA	NW 50	5.45	4.62	3.69

Components		Dimensions in Millimeters			
Flange	Clamp	Flange & Clamp Size	A (Min. Diameter to Install)	B (Min. Diameter Closed)	C (Min. Diameter Closed)
V*-38-N1A	V0-13W-N1A-CA	NW 10	72.64	67.31	44.45
V*-38-N1B	V0-13W-N1B-CA	NW 16	72.64	67.31	44.45
V*-38-N1C	V0-13W-N1C-CA	NW 25	84.33	76.20	56.90
V*-38-N1D	V0-13W-N1D-CA	NW 40	101.60	94.49	73.66
V*-38-N1E	V0-13W-N1E-CA	NW 50	138.43	117.35	93.73

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW Bulkhead Clamp

Part Number
V0-13B-N1B
V0-13B-N1C
V0-13B-N1D
V0-13B-N1E

Dimensions in Inches						
Flange Size	A	B	C	# of Screws	Through Hole D	
NW						
16	2.00	1.50	0.361	6	0.90	
25	2.37	1.89	0.387	6	1.26	
40	2.94	2.44	0.366	6	1.84	
50	3.75	3.25	0.404	8	2.35	

Part Number
V0-13B-N1B
V0-13B-N1C
V0-13B-N1D
V0-13B-N1E

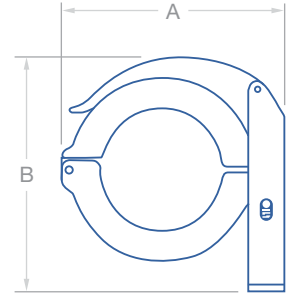
Dimensions in Millimeters						
Flange Size	A	B	C	# of Screws	Through Hole D	
NW						
16	50.80	38.10	9.17	6	22.86	
25	60.20	48.01	9.83	6	32.00	
40	74.68	61.98	9.30	6	46.74	
50	95.25	82.55	10.26	8	59.69	



Valex
Vacuum
Components

NW
Clamps

NW Quick Release Lever Clamp



Part Number
V0-13L-N1B
V0-13L-N1C
V0-13L-N1D
V0-13L-N1E

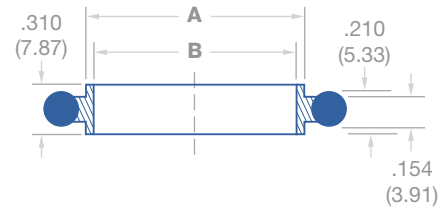
Dimensions in Inches			
NW	Flange Size	A	B
	inch		
16	1/2" - 3/4"	2.49	2.05
25	1"	2.87	2.37
40	1-1/2"	3.57	3.15
50	2"	4.51	4.02

Part Number
V0-13L-N1B
V0-13L-N1C
V0-13L-N1D
V0-13L-N1E

Dimensions in Millimeters			
NW	Flange Size	A	B
	mm		
16	12.7 - 19.1	63.3	52.0
25	25.4	73.0	60.3
40	38.1	90.6	80.0
50	50.8	114.5	102.0



NW Centering Ring with O-ring



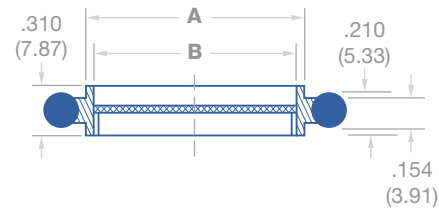
Part Number	Dimensions in Inches & Millimeters				
	Flange Size	A		B	
		NW	inch	mm	inch
V0-39C-N1A-**X	10	0.478	12.14	0.456	11.58
V0-39C-N1B-**X	16	0.669	16.99	0.625	15.88
V0-39C-N1C-**X	25	1.024	26.01	0.984	24.99
V0-39C-N1D-**X	40	1.614	41.00	1.570	39.88
V0-39C-N1E-**X	50	2.047	51.99	1.967	49.96

* Pick one of each option.

Centering Ring Material: X = No Centering Ring, 1 = Aluminum, 2 = 304 SS, 3 = 316 SS, 4 = 316 SS EP

O-Ring Material: X = No O-Ring, A = NBR (Buna), B = EPDM, C = FKM (Viton), D = Silicone, E = Kalrez

NW Screened Centering Ring with O-ring



Part Number	Dimensions in Inches & Millimeters					
	Flange Size	A		B		Mesh
		NW	inch	mm	inch	
V0-39M-N1C-**X	25	1.024	26.01	0.984	24.99	74
V0-39M-N1D-**X	40	1.614	41.00	1.570	39.88	74
V0-39M-N1E-**X	50	2.047	51.99	1.967	49.96	74

* Pick one of each option.

Centering Ring Material: X = No Centering Ring, 1 = Aluminum, 2 = 304 SS, 3 = 316 SS, 4 = 316 SS EP

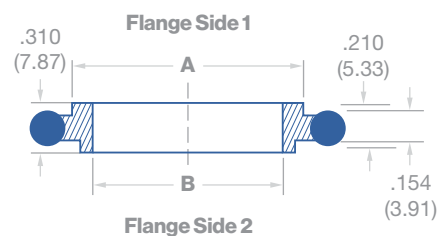
O-Ring Material: X = No O-Ring, A = NBR (Buna), B = EPDM, C = FKM (Viton), D = Silicone, E = Kalrez



Valex
Vacuum
Components

NW Centering Rings

NW Reducing Centering Ring with O-ring



Part Number	Dimensions in Inches			
	Flange Side 1	Flange Side 2	A	B
	NW	NW		
V0-39L-N1BX1A-***X	16	10	0.67	0.48
V0-39L-N1CX1F-***X	25	20	1.02	0.87
V0-39L-N1DX1G-***X	40	32	1.61	1.34

Part Number	Dimensions in Millimeters			
	Flange Side 1	Flange Side 2	A	B
	NW	NW		
V0-39L-N1BX1A-***X	16	10	17.02	12.19
V0-39L-N1CX1F-***X	25	20	25.91	22.10
V0-39L-N1DX1G-***X	40	32	40.89	34.04

* Pick one of each option.

Centering Ring Material: X = No Centering Ring, 1 = Aluminum, 2 = 304 SS, 3 = 316 SS, 4 = 316 SS EP

O-Ring Material: X = No O-Ring, A = NBR (Buna), B = EPDM, C = FKM (Viton), D = Silicone, E = Kalrez

NW Over Pressure Ring



Part Number	Dimensions in Inches & Millimeters						
	Flange Size	A		B		C	
		NW	inch	mm	inch	mm	inch
V0-39T-N1A-***	10	1.25	31.75	1.186	30.12	0.346	8.79
V0-39T-N1B-***	16	1.25	31.75	1.186	30.12	0.346	8.79
V0-39T-N1C-***	25	1.66	42.16	1.583	40.21	0.346	8.79
V0-39T-N1D-***	40	2.25	57.15	2.169	55.09	0.346	8.79
V0-39T-N1E-***	50	2.75	69.85	2.620	66.55	0.145	3.68

* Pick one of each option.

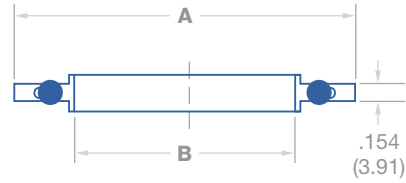
Centering Ring Material: X = No Centering Ring, 1 = Aluminum, 2 = 304 SS, 3 = 316 SS, 4 = 316 SS EP

O-Ring Material: X = No O-Ring, A = NBR (Buna), B = EPDM, C = FKM (Viton), D = Silicone, E = Kalrez

Ring Material: D = Overpressure, Aluminum, E = Overpressure, 304 SS, F = Overpressure, 316 SS



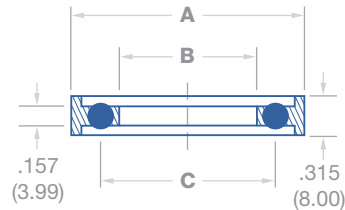
NW Centering Ring with O-ring & Overpressure Ring Assembly



Part Number	Dimensions in Inches & Millimeters				
	Flange Size	A		B	
		NW	inch	mm	inch
V0-39E-N1B-***	16	1.25	31.75	0.625	15.88
V0-39E-N1C-***	25	1.66	42.16	0.984	24.99
V0-39E-N1D-***	40	2.25	57.15	1.570	39.88
V0-39E-N1E-***	50	2.75	69.85	1.967	49.96

* Pick one of each option.
Centering Ring Material: X = No Centering Ring, 1 = Aluminum, 2 = 304 SS, 3 = 316 SS, 4 = 316 SS EP
O-Ring Material: X = No O-Ring, A = NBR (Buna), B = EPDM, C = FKM (Viton), D = Silicone, E = Kalrez
Ring Material: D = Overpressure, Aluminim, E = Overpressure, 304 SS, F = Overpressure, 316 SS

NW Centering Ring with O-ring & Capture Ring Assembly



Part Number	Dimensions in Inches & Millimeters						
	Flange Size	A		B		C	
		NW	inch	mm	inch	mm	inch
V0-39F-N1A-***	10	1.18	29.97	0.63	16.00	0.91	23.11
V0-39F-N1B-***	16	1.18	29.97	0.63	16.00	0.91	23.11
V0-39F-N1C-***	25	1.58	40.13	0.95	24.13	1.30	33.02
V0-39F-N1D-***	40	2.17	55.12	1.58	40.13	1.89	48.01
V0-39F-N1E-***	50	2.95	74.93	1.97	50.04	2.32	58.93

* Pick one of each option.
Centering Ring Material: X = No Centering Ring, 1 = Aluminum, 2 = 304 SS, 3 = 316 SS, 4 = 316 SS EP
O-Ring Material: X = No O-Ring, A = NBR (Buna), B = EPDM, C = FKM (Viton), D = Silicone, E = Kalrez
Ring Material: G = Capture, Aluminim, H = Capture, 304 SS, J = Capture, 316 SS

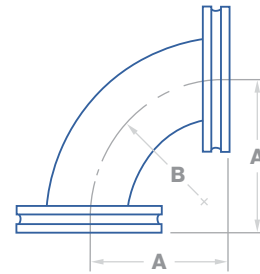
O-ring O-ring options

See part number configurator for O-ring material options



ISO-K 90° Elbow

No Tangent

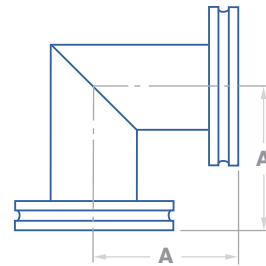


Part Number	Dimensions in Inches & Millimeters						
	Size	Tube O.D.		A		B	
	ISO	inch	mm	inch	mm	inch	mm
V*-2-K2A	63	2-1/2"	63.50	4.00	101.60	3.75	95.25
V*-2-K2B	80	3"	76.20	4.75	120.65	4.50	114.30
V*-2-K2C	100	4"	101.60	6.25	158.75	6.00	152.40
V*-2-K2D	160	6"	152.40	9.38	238.25	9.00	228.60
V*-2-K2E	200	8"	203.20	12.38	314.45	12.00	304.80
V*-2-K2F	250	10"	254.00	15.38	390.65	15.00	381.00

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

ISO-K 90° Mitered Elbow

No Tangent



Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
	ISO	inch	mm	inch	mm
V*-2M-K2A	63	2-1/2"	63.50	3.25	82.55
V*-2M-K2B	80	3"	76.20	3.50	88.90
V*-2M-K2C	100	4"	101.60	4.13	104.90
V*-2M-K2D	160	6"	152.40	5.38	136.65
V*-2M-K2E	200	8"	203.20	7.38	187.45
V*-2M-K2F	250	10"	254.00	9.88	250.95

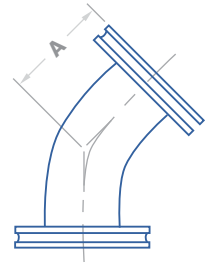
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



Valex
Vacuum
Components

ISO Elbows

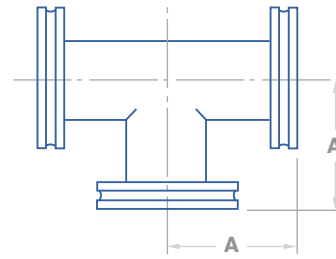
ISO-K 45° Elbow With Tangent



Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
	ISO	inch	mm	inch	mm
V*-2N-K2A	63	2-1/2"	63.50	3.25	82.55
V*-2N-K2B	80	3"	76.20	3.93	99.82
V*-2N-K2C	100	4"	101.60	5.03	127.76

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L

Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



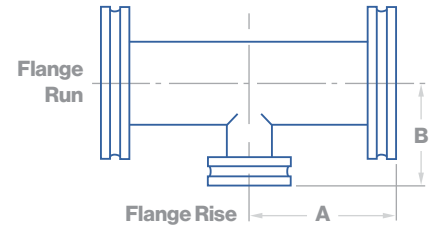
ISO-K Equal Tee

Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
		ISO	inch	mm	inch
V*-7-K2A	63	2-1/2"	63.50	3.25	82.55
V*-7-K2B	80	3"	76.20	3.50	88.90
V*-7-K2C	100	4"	101.60	4.13	104.90
V*-7-K2D	160	6"	152.40	5.38	136.65
V*-7-K2E	200	8"	203.20	7.38	187.45
V*-7-K2F	250	10"	254.00	9.88	250.95

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



ISO-K Reducing Tee



Part Number
V*-7R-K2BXK2A
V*-7R-K2CXK2A
V*-7R-K2CXK2B
V*-7R-K2DXK2A
V*-7R-K2DXK2B
V*-7R-K2DXK2C
V*-7R-K2EXK2A
V*-7R-K2EXK2B
V*-7R-K2EXK2C
V*-7R-K2EXK2D

Dimensions in Inches					
Flange Run		Flange Rise		A	B
ISO	Tube O.D.	ISO	Tube O.D.		
80	3"	63	2-1/2"	3.50	3.50
100	4"	63	2-1/2"	4.13	4.00
100	4"	80	3"	4.13	4.00
160	6"	63	2-1/2"	5.38	5.00
160	6"	80	3"	5.38	5.00
160	6"	100	4"	5.38	5.13
200	8"	63	2-1/2"	7.38	6.00
200	8"	80	3"	7.38	6.00
200	8"	100	4"	7.38	6.13
200	8"	160	6"	7.38	6.38

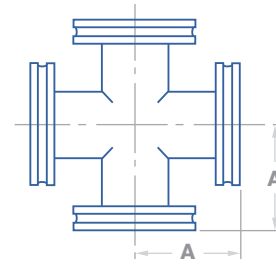
Part Number
V*-7R-K2BXK2A
V*-7R-K2CXK2A
V*-7R-K2CXK2B
V*-7R-K2DXK2A
V*-7R-K2DXK2B
V*-7R-K2DXK2C
V*-7R-K2EXK2A
V*-7R-K2EXK2B
V*-7R-K2EXK2C
V*-7R-K2EXK2D

Dimensions in Millimeters					
Flange Run		Flange Rise		A	B
ISO	Tube O.D.	ISO	Tube O.D.		
80	76.20	63	63.50	88.90	88.90
100	101.60	63	63.50	104.90	101.60
100	101.60	80	76.20	104.90	101.60
160	152.40	63	63.50	136.65	127.00
160	152.40	80	76.20	136.65	127.00
160	152.40	100	101.60	136.65	130.30
200	203.20	63	63.50	187.45	152.40
200	203.20	80	76.20	187.45	152.40
200	203.20	100	101.60	187.45	155.70
200	203.20	160	152.40	187.45	162.05

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



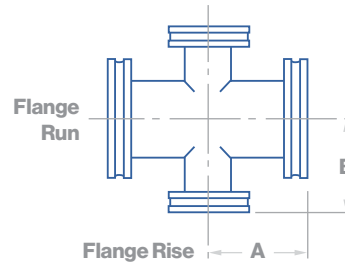
ISO-K 4-Way Cross



Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
		ISO	inch	mm	inch
316L BA					
V*-9-K2A	63	2-1/2"	63.50	3.25	82.55
V*-9-K2B	80	3"	76.20	3.50	88.90
V*-9-K2C	100	4"	101.60	4.13	104.90
V*-9-K2D	160	6"	152.40	5.38	136.65
V*-9-K2E	200	8"	203.20	7.38	187.45
V*-9-K2F	250	10"	254.00	9.88	250.95

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

ISO-K 4-Way Reducing Cross



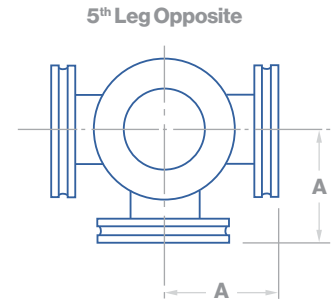
Part Number	Dimensions in Inches					
	Flange Run		Flange Rise		A	B
	ISO	Tube O.D.	ISO	Tube O.D.		
V*-9R-K2BXK2A	80	3"	63	2-1/2"	3.50	3.50
V*-9R-K2CXK2A	100	4"	63	2-1/2"	4.13	4.00
V*-9R-K2CXK2B	100	4"	80	3"	4.13	4.00
V*-9R-K2DXK2A	160	6"	63	2-1/2"	5.38	5.00
V*-9R-K2DXK2B	160	6"	80	3"	5.38	5.00
V*-9R-K2DXK2C	160	6"	100	4"	5.38	5.13
V*-9R-K2EXK2D	200	8"	160	6"	7.38	6.38

Part Number	Dimensions in Millimeters					
	Flange Run		Flange Rise		A	B
	ISO	Tube O.D.	ISO	Tube O.D.		
V*-9R-K2BXK2A	80	76.20	63	63.50	88.90	88.90
V*-9R-K2CXK2A	100	101.60	63	63.50	104.90	101.60
V*-9R-K2CXK2B	100	101.60	80	76.20	104.90	101.60
V*-9R-K2DXK2A	160	152.40	63	63.50	136.65	127.00
V*-9R-K2DXK2B	160	152.40	80	76.20	136.65	127.00
V*-9R-K2DXK2C	160	152.40	100	101.60	136.65	130.30
V*-9R-K2EXK2D	200	203.20	160	152.40	187.45	162.05

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



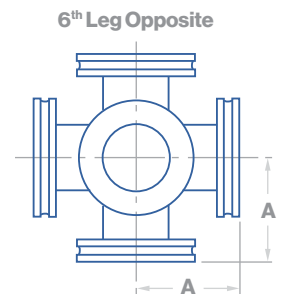
ISO-K 5-Way Cross



Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
	ISO	inch	mm	inch	mm
V*-9F-K2A	63	2-1/2"	63.50	3.25	82.55
V*-9F-K2B	80	3"	76.20	3.50	88.90
V*-9F-K2C	100	4"	101.60	4.13	104.90
V*-9F-K2D	160	6"	152.40	5.38	136.65
V*-9F-K2E	200	8"	203.20	7.38	187.45
V*-9F-K2F	250	10"	254.00	9.88	250.95

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

ISO-K 6-Way Cross

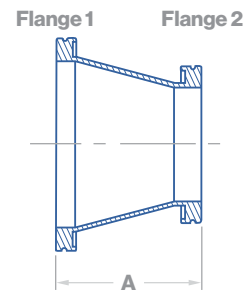


Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
	ISO	inch	mm	inch	mm
V*-9S-K2A	63	2-1/2"	63.50	3.25	82.55
V*-9S-K2B	80	3"	76.20	3.50	88.90
V*-9S-K2C	100	4"	101.60	4.13	104.90
V*-9S-K2D	160	6"	152.40	5.38	136.65
V*-9S-K2E	200	8"	203.20	7.38	187.45
V*-9S-K2F	250	10"	254.00	9.88	250.95

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



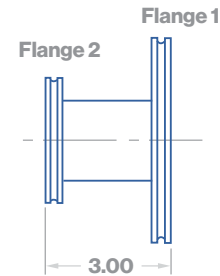
ISO-K Concentric Reducer



Part Number	Dimensions in Inches & Millimeters							
	Flange 1	Flange 2	Tube O.D. 1		Tube O.D. 2		A	
	ISO	ISO	inch	mm	inch	mm	inch	mm
V*-31-K2BXK2A	80	63	3"	76.20	2-1/2"	63.50	4.125	104.775
V*-31-K2CXK2A	100	63	4"	101.60	2-1/2"	63.50	4.125	104.775
V*-31-K2CXK2B	100	80	4"	101.60	3"	76.20	4.125	104.775
V*-31-K2DXK2B	160	80	6"	152.40	3"	76.20	6.000	152.400
V*-31-K2DXK2C	160	100	6"	152.40	4"	101.60	6.000	152.400

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

ISO-K Straight Reducer

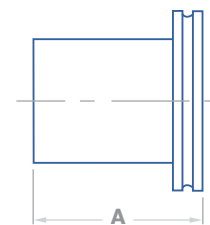


Part Number	Dimensions in Inches & Millimeters			
	Flange 1	Flange 2	Tube O.D.	
	ISO	ISO	inch	mm
V*-31S-K3BX3A	80	63	2-1/2"	63.50
V*-31S-K3CX3A	100	63	2-1/2"	63.50
V*-31S-K3CX3B	100	80	3"	76.20
V*-31S-K3DX3A	160	63	2-1/2"	63.50
V*-31S-K3DX3B	160	80	3"	76.20
V*-31S-K3DX3C	160	100	4"	101.60
V*-31S-K3EX3A	200	63	2-1/2"	63.50
V*-31S-K3EX3B	200	80	3"	76.20
V*-31S-K3EX3C	200	100	4"	101.60
V*-31S-K3EX3D	200	160	6"	152.40
V*-31S-K3FX3A	250	63	2-1/2"	63.50
V*-31S-K3FX3B	250	80	3"	76.20
V*-31S-K3FX3C	250	100	4"	101.60
V*-31S-K3FX3D	250	160	6"	152.40
V*-31S-K3FX3E	250	200	8"	203.20

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

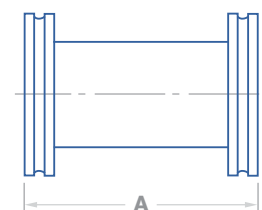


ISO-K Half Nipple



Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
		ISO	inch	mm	inch
V*-6H-K2A-NA	63	2-1/2"	63.50	3.25	82.55
V*-6H-K2A-NB	63	2-1/2"	63.50	4.00	101.60
V*-6H-K2A-NC	63	2-1/2"	63.50	3.94	100.08
V*-6H-K2B-NA	80	3"	76.20	3.50	88.90
V*-6H-K2B-NB	80	3"	76.20	3.94	100.08
V*-6H-K2C-NA	100	4"	101.60	4.13	104.90
V*-6H-K2C-NB	100	4"	101.60	5.12	130.05
V*-6H-K2C-NC	100	4"	101.60	3.94	100.08
V*-6H-K2D-NA	160	6"	152.40	5.38	136.65
V*-6H-K2D-NB	160	6"	152.40	6.44	163.58
V*-6H-K2D-NC	160	6"	152.40	3.94	100.08
V*-6H-K2E-NA	200	8"	203.20	7.38	187.45
V*-6H-K2F-NA	250	10"	254.00	9.88	250.95
V*-6H-K2G-NA	320	12"	304.80	9.88	250.95
V*-6H-K2H-NA	400	16"	406.40	9.88	250.95
V*-6H-K2J-NA	500	20"	508.00	9.88	250.95

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



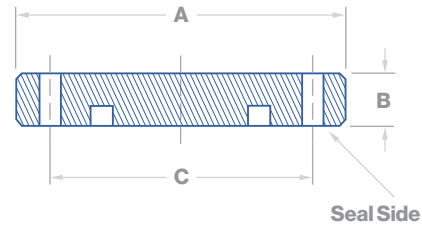
ISO-K Full Nipple

Part Number	Dimensions in Inches & Millimeters				
	Size	Tube O.D.		A	
		ISO	inch	mm	inch
V*-6F-K2A	63	2-1/2"	63.50	6.50	165.10
V*-6F-K2B	80	3"	76.20	7.00	177.80
V*-6F-K2C	100	4"	101.60	8.26	209.80
V*-6F-K2D	160	6"	152.40	10.76	273.30
V*-6F-K2E	200	8"	203.20	14.76	374.90
V*-6F-K2F	250	10"	254.00	19.76	501.90
V*-6F-K2G	320	12"	304.80	19.76	501.90
V*-6F-K2H	400	16"	406.40	19.76	501.90
V*-6F-K2J	500	20"	508.00	19.76	501.90

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



ISO-F Blank Flange



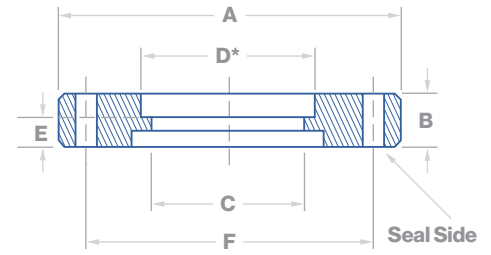
Part Number	Dimensions in Inches					
	Flange Size ISO	A	B	C	Bolt Holes	Bolt Diameter
V*-38-K2A	63	5.118	0.472	4.331	4	0.359
V*-38-K2B	80	5.709	0.472	4.921	8	0.359
V*-38-K2C	100	6.496	0.472	5.709	8	0.359
V*-38-K2D	160	8.858	0.630	7.874	8	0.438
V*-38-K2E	200	11.220	0.630	10.236	12	0.438
V*-38-K2F	250	13.189	0.630	12.205	12	0.438
V*-38-K2G	320	16.732	0.787	15.551	12	0.551
V*-38-K2H	400	20.079	0.787	18.898	16	0.551
V*-38-K2J	500	24.016	0.787	22.835	16	0.551

Part Number	Dimensions in Millimeters					
	Flange Size ISO	A	B	C	Bolt Holes	Bolt Diameter
V*-38-K2A	63	130.00	11.99	110.01	4	9.12
V*-38-K2B	80	145.01	11.99	124.99	8	9.12
V*-38-K2C	100	165.00	11.99	145.01	8	9.12
V*-38-K2D	160	224.99	16.00	200.00	8	11.13
V*-38-K2E	200	284.99	16.00	259.99	12	11.13
V*-38-K2F	250	335.00	16.00	310.01	12	11.13
V*-38-K2G	320	424.99	19.99	395.00	12	14.00
V*-38-K2H	400	510.01	19.99	480.01	16	14.00
V*-38-K2J	500	610.01	19.99	580.01	16	14.00

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



ISO-F Bored Flange



Part Number	Dimensions in Inches									
	Flange ISO	Nominal I.D.	A	B	C	D	E	F	Bolt Holes	Bolt Diameter
V*-38B-F2A	63	2-1/2"	5.118	0.472	2.438	2.510	0.250	4.331	4	0.359
V*-38B-F2B	80	3-1/2"	5.709	0.472	2.938	3.010	0.250	4.921	8	0.359
V*-38B-F2C	100	4"	6.496	0.472	3.910	4.010	0.250	5.709	8	0.359
V*-38B-F2D	160	6"	8.858	0.630	5.875	6.020	0.375	7.874	8	0.438
V*-38B-F2E	200	8"	11.220	0.630	7.875	8.020	0.375	10.236	12	0.438
V*-38B-F2F	250	10"	13.189	0.630	9.875	10.020	0.375	12.205	12	0.438
V*-38B-F2G	320	12"	16.732	0.787	11.760	12.020	0.375	15.551	12	0.551
V*-38B-F2H	400	16"	20.079	0.787	15.642	16.020	0.375	18.898	16	0.551
V*-38B-F2J	500	20"	24.016	0.787	19.642	20.020	0.375	22.835	16	0.551

Part Number	Dimensions in Millimeters									
	Flange ISO	Nominal I.D.	A	B	C	D	E	F	Bolt Holes	Bolt Diameter
V*-38B-F2A	63	63.50	130.00	11.99	61.93	63.75	6.35	110.01	4	9.12
V*-38B-F2B	80	88.90	145.01	11.99	74.63	76.45	6.35	124.99	8	9.12
V*-38B-F2C	100	101.06	165.00	11.99	99.32	101.85	6.35	145.01	8	9.12
V*-38B-F2D	160	152.40	224.99	11.99	149.23	152.91	9.53	200.00	8	9.12
V*-38B-F2E	200	203.20	284.99	16.00	200.03	203.71	9.53	259.99	12	11.13
V*-38B-F2F	250	254.00	335.00	16.00	250.83	254.51	9.53	310.01	12	11.13
V*-38B-F2G	320	304.80	424.99	16.00	298.70	305.31	9.53	395.00	12	11.13
V*-38B-F2H	400	406.80	510.01	19.99	397.31	406.91	9.53	480.01	16	14.00
V*-38B-F2J	500	508.00	610.01	19.99	498.91	508.51	9.53	580.01	16	14.00

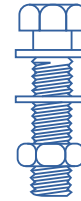
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



ISO-F

Bolt Kits, Metric

Bolts, Nuts & Washers



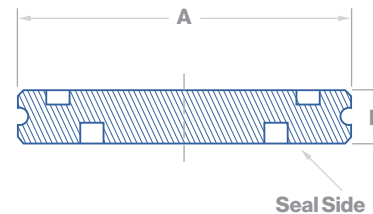
Part Number	Description			
	ISO	Number of Stainless Steel Bolts	Nuts & Washers	Size
V0-70B-2A-X*A	63	4	X	M8 x 40mm
V0-70B-2B-X*A	80	8	X	M8 x 40mm
V0-70B-2C-X*A	100	8	X	M8 x 40mm
V0-70B-2D-X*B	160	8	X	M10 x 50mm
V0-70B-2E-X*B	200	12	X	M10 x 50mm
V0-70B-2F-X*B	250	12	X	M10 x 50mm
V0-70B-2G-X*C	320	12	X	M12 x 60mm
V0-70B-2H-X*C	400	16	X	M12 x 60mm
V0-70B-2J-X*C	500	16	X	M12 x 60mm

* Pick one of each option.

Material and / or Thread: M = Metric, V = Metric 10-8SS (Bolts), W = Metric 10-8SS Silver-plated (Bolts)

ISO-K

Blank Flange



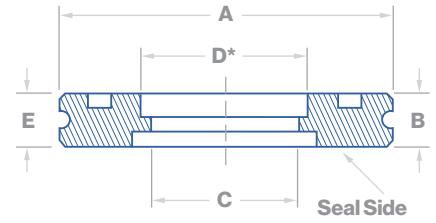
Part Number	Dimensions in Inches & Millimeters				
	Flange Size	A		B	
		ISO	inch	mm	inch
V*-38-K2A	63	3.740	95.00	0.47	11.94
V*-38-K2B	80	4.331	110.01	0.47	11.94
V*-38-K2C	100	5.118	130.00	0.47	11.94
V*-38-K2D	160	7.087	180.00	0.47	11.94
V*-38-K2E	200	9.449	240.00	0.47	11.94
V*-38-K2F	250	11.417	289.99	0.47	11.94
V*-38-K2G	320	14.567	370.00	0.67	17.02
V*-38-K2H	400	17.716	449.99	0.67	17.02
V*-38-K2J	500	21.653	549.99	0.67	17.02

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L

Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



ISO-K Bored Flange



Part Number
V*-38B-K2A-FF
V*-38B-K2B-FF
V*-38B-K2C-FF
V*-38B-K2D-FF
V*-38B-K2E-FF
V*-38B-K2F-FF
V*-38B-K2G-FF
V*-38B-K2H-FF
V*-38B-K2J-FF

Dimensions in Inches						
Flange Size	Nominal I.D.	A	B	C	D	E
ISO						
63	2-1/2"	3.740	0.47	2.438	2.510	0.25
80	3"	4.331	0.47	2.938	3.010	0.25
100	4"	5.118	0.47	3.910	4.010	0.25
160	6"	7.087	0.47	5.875	6.020	0.375
200	8"	9.449	0.47	7.875	8.020	0.375
250	10"	11.417	0.47	9.875	10.020	0.375
320	12"	14.567	0.67	11.760	12.020	0.375
400	16"	17.716	0.67	15.624	16.020	0.375
500	20"	21.653	0.67	19.624	20.020	0.375

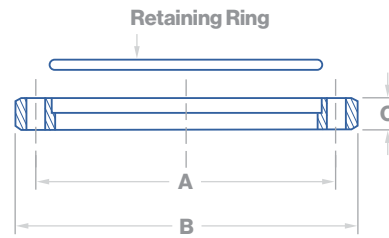
Part Number
V*-38B-K2A-FF
V*-38B-K2B-FF
V*-38B-K2C-FF
V*-38B-K2D-FF
V*-38B-K2E-FF
V*-38B-K2F-FF
V*-38B-K2G-FF
V*-38B-K2H-FF
V*-38B-K2J-FF

Dimensions in Millimeters						
Flange Size	Nominal I.D.	A	B	C	D	E
ISO						
63	63.50	95.00	11.94	61.93	63.75	6.35
80	76.20	110.01	11.94	74.63	76.45	6.35
100	101.60	130.00	11.94	99.31	101.85	6.35
160	152.40	180.01	11.94	149.23	152.91	9.53
200	203.20	240.00	11.94	200.03	203.71	9.53
250	254.00	289.99	11.94	250.83	254.51	9.53
320	304.80	370.00	17.02	298.70	305.31	9.53
400	406.40	449.99	17.02	396.85	406.91	9.53
500	508.00	549.99	17.02	498.45	508.51	9.53

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



ISO-F Bored Rotatable Flange & Retainer Ring



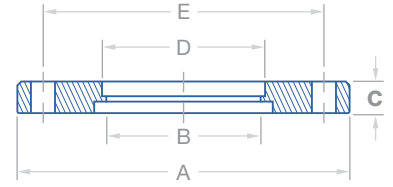
Part Number	Dimensions in Inches			
	Flange Size ISO	A	B	C
V*-38B-F2A-FR	63	4.331	5.118	0.472
V*-38B-F2B-FR	80	4.921	5.709	0.472
V*-38B-F2C-FR	100	5.709	6.496	0.472
V*-38B-F2D-FR	160	7.874	8.858	0.630
V*-38B-F2E-FR	200	10.236	11.220	0.630
V*-38B-F2F-FR	250	12.205	13.189	0.630
V*-38B-F2G-FR	320	15.551	16.732	0.787
V*-38B-F2H-FR	400	18.898	20.079	0.787
V*-38B-F2J-FR	500	22.835	24.016	0.787

Part Number	Dimensions in Millimeters			
	Flange Size ISO	A	B	C
V*-38B-F2A-FR	63	110.01	130.00	11.99
V*-38B-F2B-FR	80	124.99	145.01	11.99
V*-38B-F2C-FR	100	145.01	165.00	11.99
V*-38B-F2D-FR	160	200.00	224.99	16.00
V*-38B-F2E-FR	200	259.99	284.99	16.00
V*-38B-F2F-FR	250	310.01	335.00	16.00
V*-38B-F2G-FR	320	395.00	424.99	19.99
V*-38B-F2H-FR	400	480.01	510.01	19.99
V*-38B-F2J-FR	500	580.01	610.01	19.99

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



ISO-F Bored Flange



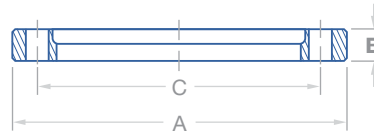
Part Number	Dimensions in Inches							
	Flange Size ISO	A	B	C	D	E	# of Bolts	Hole Diameter
V*-38B-F2A-FF	63	5.170	2.438	0.470	2.510	4.330	4	0.359
V*-38B-F2B-FF	80	5.710	2.938	0.470	3.010	4.920	8	0.359
V*-38B-F2C-FF	100	6.500	3.910	0.470	4.010	5.710	8	0.359
V*-38B-F2D-FF	160	8.860	5.875	0.630	6.020	7.870	8	0.438
V*-38B-F2E-FF	200	11.220	7.875	0.630	8.020	10.240	12	0.438
V*-38B-F2F-FF	250	13.190	9.875	0.630	10.020	12.200	12	0.438
V*-38B-F2G-FF	320	16.730	11.760	0.790	12.020	15.550	12	0.516
V*-38B-F2H-FF	400	20.080	15.812	0.790	16.020	18.900	16	0.516
V*-38B-F2J-FF	500	24.020	19.812	0.790	20.020	22.830	16	0.516

Part Number	Dimensions in Millimeters							
	Flange Size ISO	A	B	C	D	E	# of Bolts	Hole Diameter
V*-38B-F2A-FF	63	131.32	61.93	11.94	63.75	109.98	4	9.12
V*-38B-F2B-FF	80	145.03	74.63	11.94	76.45	124.97	8	9.12
V*-38B-F2C-FF	100	165.10	99.31	11.94	101.85	145.03	8	9.12
V*-38B-F2D-FF	160	225.04	149.23	16.00	152.91	199.90	8	11.13
V*-38B-F2E-FF	200	284.99	200.03	16.00	203.71	260.10	12	11.13
V*-38B-F2F-FF	250	335.03	250.83	16.00	254.51	309.88	12	11.13
V*-38B-F2G-FF	320	424.94	298.70	20.07	305.31	394.97	12	13.11
V*-38B-F2H-FF	400	510.03	401.62	20.07	406.91	480.06	16	13.11
V*-38B-F2J-FF	500	610.11	503.22	20.07	508.51	579.88	16	13.11

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



ISO-F Bored Rotatable Bolted Flange



Part Number	Dimensions in Inches						
	Flange Size ISO	Tube Size	A	B	C	# of Bolts	Hole Diameter
V*-38B-F2AXW40-FR	63	2-1/2"	5.170	0.470	4.330	4	0.359
V*-38B-F2BXW48-FR	80	3"	5.710	0.470	4.920	4	0.359
V*-38B-F2CXW64-FR	100	4"	6.500	0.470	5.710	8	0.359
V*-38B-F2DXW96-FR	160	6"	8.860	0.630	7.870	8	0.438
V*-38B-F2EXW53-FR	200	8"	11.220	0.630	10.240	12	0.438
V*-38B-F2FXW55-FR	250	10"	13.190	0.630	12.200	12	0.438
V*-38B-F2GXW57-FR	320	12"	16.730	0.790	15.550	12	0.516
V*-38B-F2HXW86-FR	400	16"	20.080	0.790	18.900	16	0.516
V*-38B-F2JXW88-FR	500	20"	24.020	0.790	22.830	16	0.516

Part Number	Dimensions in Millimeters						
	Flange Size ISO	Tube Size	A	B	C	# of Bolts	Hole Diameter
V*-38B-F2AXW40-FR	63	63.50	131.32	11.94	109.98	4	9.12
V*-38B-F2BXW48-FR	80	76.20	145.03	11.94	124.97	4	9.12
V*-38B-F2CXW64-FR	100	101.60	165.10	11.94	145.03	8	9.12
V*-38B-F2DXW96-FR	160	152.40	225.04	16.00	199.90	8	11.13
V*-38B-F2EXW53-FR	200	203.20	284.99	16.00	260.10	12	11.13
V*-38B-F2FXW55-FR	250	254.00	335.03	16.00	309.88	12	11.13
V*-38B-F2GXW57-FR	320	304.80	424.94	20.07	394.97	12	13.11
V*-38B-F2HXW86-FR	400	406.40	510.03	20.07	480.06	16	13.11
V*-38B-F2JXW88-FR	500	508.00	610.11	20.07	579.88	16	13.11

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

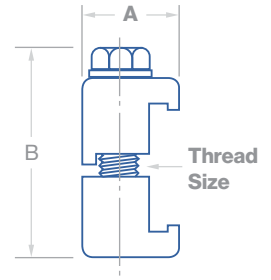


Valex
Vacuum
Components

ISO Clamps

ISO-K Double Claw Clamp

Aluminum

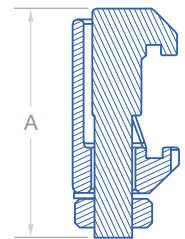


Part Number
V0-13D-K2A-CA
V0-13D-K2B-CA
V0-13D-K2C-CA
V0-13D-K2D-CA
V0-13D-K2E-CA
V0-13D-K2F-CA
V0-13D-K2G-CA
V0-13D-K2H-CA
V0-13D-K2J-CA

Dimensions in Inches & Millimeters							
Flange Size	A		B		Thread Size	Clamps Required	
	inch	mm	inch	mm			
63	0.94	23.88	1.96	49.78	5/16 - 18	4	
80	0.94	23.88	1.96	49.78	5/16 - 18	8	
100	0.94	23.88	1.96	49.78	5/16 - 18	8	
160	1.10	27.94	1.96	49.78	5/16 - 18	8	
200	1.10	27.94	1.96	49.78	5/16 - 18	12	
250	1.10	27.94	1.96	49.78	5/16 - 18	12	
320	1.34	34.04	2.50	63.50	7/16 - 14	12	
400	1.34	34.04	2.50	63.50	7/16 - 14	16	
500	1.34	34.04	2.50	63.50	7/16 - 14	16	

ISO-K Double Claw Clamp

316 Stainless Steel

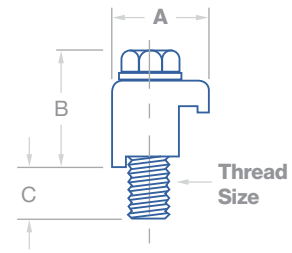


Part Number
V0-13D-K2A-CC
V0-13D-K2B-CC
V0-13D-K2C-CC
V0-13D-K2D-CC
V0-13D-K2E-CC
V0-13D-K2F-CC
V0-13D-K2G-CC
V0-13D-K2H-CC
V0-13D-K2J-CC

Dimensions in Inches & Millimeters						
Flange Size	A		Bolt	Fits Flange	Clamps Required	
	inch	mm				ISO
63	2.42	64.5	M8	63	4	
80	2.42	64.5	M8	80	4	
100	2.42	64.5	M8	100	4	
160	2.42	64.5	M8	160	6	
200	2.42	64.5	M8	200	8	
250	2.42	64.5	M8	250	10	
320	2.99	75.9	M12	320	12	
400	2.99	75.9	M12	400	16	
500	2.99	75.9	M12	500	20	



ISO-K Single Claw Clamp



Part Number	Dimensions in Inches					
	Flange Size ISO	A	B	C	Thread Size	Clamps Required
V0-13-K2A-**	63	0.94	1.18	0.52	5/16 - 18	4
V0-13-K2B-**	80	0.94	1.18	0.52	5/16 - 18	8
V0-13-K2C-**	100	0.94	1.18	0.52	5/16 - 18	8
V0-13-K2D-**	160	1.10	1.18	0.52	5/16 - 18	8
V0-13-K2E-**	200	1.10	1.18	0.52	5/16 - 18	12
V0-13-K2F-**	250	1.10	1.18	0.52	5/16 - 18	12
V0-13-K2G-**	320	1.34	1.46	0.88	7/16 - 14	12
V0-13-K2H-**	400	1.34	1.46	0.88	7/16 - 14	16
V0-13-K2J-**	500	1.34	1.46	0.88	7/16 - 14	16

Part Number	Dimensions in Millimeters					
	Flange Size ISO	A	B	C	Thread Size	Clamps Required
V0-13-K2A-**	63	23.88	29.97	13.21	5/16 - 18	4
V0-13-K2B-**	80	23.88	29.97	13.21	5/16 - 18	8
V0-13-K2C-**	100	23.88	29.97	13.21	5/16 - 18	8
V0-13-K2D-**	160	27.94	29.97	13.21	5/16 - 18	8
V0-13-K2E-**	200	27.94	29.97	13.21	5/16 - 18	12
V0-13-K2F-**	250	27.94	29.97	13.21	5/16 - 18	12
V0-13-K2G-**	320	34.04	37.08	22.35	7/16 - 14	12
V0-13-K2H-**	400	34.04	37.08	22.35	7/16 - 14	16
V0-13-K2J-**	500	34.04	37.08	22.35	7/16 - 14	16

* Clamp Thread / Material: CA = Inch Aluminum, CC = Inch 316 SS, CE = Inch 304 SS



ISO-K Single Claw Clamp, Metric

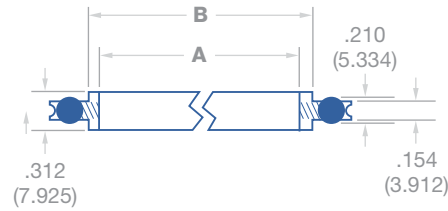
Part Number	Dimensions in Inches					
	Flange Size	A	B	C	Thread Size	Clamps Required
	ISO					
V0-13-K2A-**	63	0.94	1.20	0.40	M8 x 1.25	4
V0-13-K2B-**	80	0.94	1.20	0.40	M8 x 1.25	8
V0-13-K2C-**	100	0.94	1.20	0.40	M8 x 1.25	8
V0-13-K2D-**	160	1.10	1.20	0.40	M10 x 1.50	8
V0-13-K2E-**	200	1.10	1.20	0.40	M10 x 1.50	12
V0-13-K2F-**	250	1.10	1.20	0.40	M10 x 1.50	12
V0-13-K2G-**	320	1.34	1.48	0.79	M12 x 1.75	12
V0-13-K2H-**	400	1.34	1.48	0.79	M12 x 1.75	16
V0-13-K2J-**	500	1.34	1.48	0.79	M12 x 1.75	16

Part Number	Dimensions in Millimeters					
	Flange Size	A	B	C	Thread Size	Clamps Required
	ISO					
V0-13-K2A-**	63	23.88	30.48	10.16	M8 x 1.25	4
V0-13-K2B-**	80	23.88	30.48	10.16	M8 x 1.25	8
V0-13-K2C-**	100	23.88	30.48	10.16	M8 x 1.25	8
V0-13-K2D-**	160	27.94	30.48	10.16	M10 x 1.50	8
V0-13-K2E-**	200	27.94	30.48	10.16	M10 x 1.50	12
V0-13-K2F-**	250	27.94	30.48	10.16	M10 x 1.50	12
V0-13-K2G-**	320	34.04	37.59	20.07	M12 x 1.75	12
V0-13-K2H-**	400	34.04	37.59	20.07	M12 x 1.75	16
V0-13-K2J-**	500	34.04	37.59	20.07	M12 x 1.75	16

* **Clamp Thread / Material:** CB = Metric Aluminum, CD = Metric 316 SS



ISO Centering Ring with O-ring & Spacer Ring



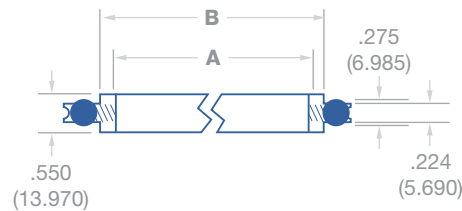
Part Number	Dimensions in Inches & Millimeters				
	Flange Size	A		B	
		ISO	inch	mm	inch
V0-39D-S2A-**A	63	2.63	66.80	2.74	69.60
V0-39D-S2B-**A	80	3.14	79.76	3.25	82.55
V0-39D-S2C-**A	100	3.89	98.81	4.00	101.60
V0-39D-S2D-**A	160	5.90	149.86	6.01	152.65
V0-39D-S2E-**A	200	8.26	209.80	8.37	212.60
V0-39D-S2F-**A	250	10.14	257.56	10.25	260.35

* Pick one of each option.

Centering Ring Material: X = No Centering Ring, 1 = Aluminum, 2 = 304 SS, 3 = 316 SS, 4 = 316 SS EP

O-Ring Material: X = No O-Ring, A = NBR (Buna), B = EPDM, C = FKM (Viton), D = Silicone, E = Kalrez

ISO Centering Ring with O-ring & Spacer Ring



Part Number	Dimensions in Inches & Millimeters				
	Flange Size	A		B	
		ISO	inch	mm	inch
V0-39D-S2G-**A	320	12.36	313.94	12.52	318.01
V0-39D-S2H-**A	400	15.55	394.97	15.75	400.05

* Pick one of each option.

Centering Ring Material: X = No Centering Ring, 1 = Aluminum, 2 = 304 SS, 3 = 316 SS, 4 = 316 SS EP

O-Ring Material: X = No O-Ring, A = NBR (Buna), B = EPDM, C = FKM (Viton), D = Silicone, E = Kalrez

Ring Material: D = Overpressure Aluminum, E = Overpressure 304 SS, F = Overpressure 316 SS

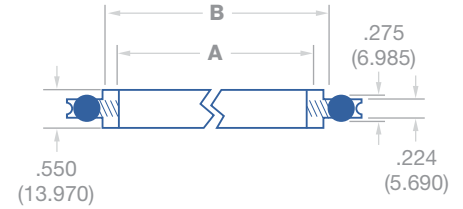


Valex

Vacuum Components

ISO Centering Rings

ISO Centering Ring with O-ring (Stainless Steel)



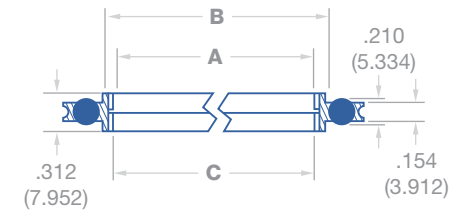
Part Number	Dimensions in Inches & Millimeters				
	Flange Size	A		B	
		ISO	inch	mm	inch
V0-39C-S2A-**X	63	2.63	66.80	2.74	69.60
V0-39C-S2B-**X	80	3.14	79.76	3.25	82.55
V0-39C-S2C-**X	100	3.89	98.81	4.00	101.60
V0-39C-S2D-**X	160	5.90	149.86	6.01	152.65
V0-39C-S2E-**X	200	8.26	209.80	8.37	212.60
V0-39C-S2F-**X	250	10.14	257.56	10.25	260.35
V0-39C-S2G-**X	320	12.32	312.93	12.52	318.01
V0-39C-S2H-**X	400	15.55	394.97	15.74	399.80

* Pick one of each option.

Centering Ring Material: X = No Centering Ring, 1 = Aluminum, 2 = 304 SS, 3 = 316 SS, 4 = 316 SS EP

O-Ring Material: X = No O-Ring, A = NBR (Buna), B = EPDM, C = FKM (Viton), D = Silicone, E = Kalrez

ISO Screened Centering Ring (Stainless Steel) with O-ring & Aluminum Spacer Ring



Part Number	Dimensions in Inches & Millimeters							
	Flange Size	A		B		C		Mesh
		ISO	inch	mm	inch	mm	inch	
V0-39M-S2A-**A	63	2.63	66.80	2.74	69.60	2.38	60.45	16
V0-39M-S2B-**A	80	3.14	79.76	3.25	82.55	2.87	72.90	16
V0-39M-S2C-**A	100	3.89	98.81	4.00	101.60	3.50	88.90	16
V0-39M-S2D-**A	160	5.90	149.86	6.01	152.65	5.50	139.70	16

* Pick one of each option.

Centering Ring Material: X = No Centering Ring, 1 = Aluminum, 2 = 304 SS, 3 = 316 SS, 4 = 316 SS EP

O-Ring Material: X = No O-Ring, A = NBR (Buna), B = EPDM, C = FKM (Viton), D = Silicone, E = Kalrez

O-ring O-ring options

See part number configurator for O-ring material options



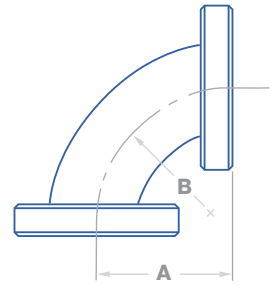
Valex

Vacuum
Components

CF Elbows

CF 90° Elbow

No Tangent, Rotatable Flanges



Part Number	Dimensions in Inches			
	Flange Size	Tube O.D.	A	B
V*-2-C3A-TG	1.33	3/4"	1.50	1.00
V*-2-C3B-TG	2.12	1"	1.67	1.50
V*-2-C3C-TG	2.75	1-1/2"	2.46	2.25
V*-2-C3D-TG	3.38	2"	3.22	3.00
V*-2-C3E-TG	4.50	2-1/2"	4.12	3.75
V*-2-C3F-TG	4.62	3"	4.78	4.50
V*-2-C3G-TG	6.00	4"	6.44	6.00
V*-2-C3J-TG	8.00	6"	9.50	9.00
V*-2-C3K-TG	10.00	8"	12.50	12.00
V*-2-C3M-TG	13.25	10"	15.50	15.00

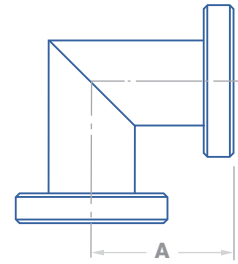
Part Number	Dimensions in Millimeters			
	Flange Size	Tube O.D.	A	B
V*-2-C3A-TG	33.78	19.05	38.10	25.40
V*-2-C3B-TG	52.85	25.40	42.42	38.10
V*-2-C3C-TG	69.85	38.10	62.48	57.15
V*-2-C3D-TG	85.85	50.80	81.79	76.20
V*-2-C3E-TG	114.30	63.50	104.65	95.25
V*-2-C3F-TG	117.35	76.20	121.41	114.30
V*-2-C3G-TG	152.40	101.60	163.58	152.40
V*-2-C3J-TG	203.20	152.40	241.30	228.60
V*-2-C3K-TG	254.00	203.20	317.50	304.80
V*-2-C3M-TG	336.55	254.00	393.70	381.00

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



CF 90° Mitered Elbow

Rotatable Flanges



Part Number	Dimensions in Inches		
	Flange Size	Tube O.D.	A
V*-2M-C3A-TG	1.33	3/4"	1.50
V*-2M-C3B-TG	2.12	1"	2.05
V*-2M-C3C-TG	2.75	1-1/2"	2.46
V*-2M-C3D-TG	3.38	2"	3.22
V*-2M-C3E-TG	4.50	2-1/2"	3.38
V*-2X-C3E-TG	4.50	2-1/2"	4.12
V*-2M-C3F-TG	4.62	3"	3.53
V*-2M-C3G-TG	6.00	4"	4.32
V*-2X-C3G-TG	6.00	4"	5.31
V*-2M-C3H-TG	6.75	5"	4.71
V*-2M-C3J-TG	8.00	6"	5.50
V*-2X-C3J-TG	8.00	6"	6.56
V*-2M-C3K-TG	10.00	8"	7.50
V*-2M-C3M-TG	13.25	10"	10.00

Part Number	Dimensions in Millimeters		
	Flange Size	Tube O.D.	A
V*-2M-C3A-TG	33.78	19.05	38.10
V*-2M-C3B-TG	53.85	25.40	52.07
V*-2M-C3C-TG	69.85	38.10	62.48
V*-2M-C3D-TG	85.85	50.80	81.79
V*-2M-C3E-TG	114.30	63.50	85.85
V*-2X-C3E-TG	114.30	63.50	104.65
V*-2M-C3F-TG	117.35	76.20	89.66
V*-2M-C3G-TG	152.40	101.60	109.73
V*-2X-C3G-TG	152.40	101.60	134.87
V*-2M-C3H-TG	171.45	127.00	119.63
V*-2M-C3J-TG	203.20	152.40	139.70
V*-2X-C3J-TG	203.20	152.40	166.62
V*-2M-C3K-TG	254.00	203.20	190.50
V*-2M-C3M-TG	336.55	254.00	254.00

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



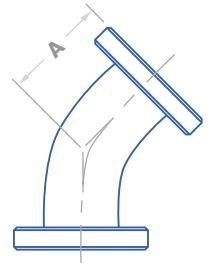
Valex

Vacuum
Components

CF Elbows

CF 45° Elbow

With Tangent, Rotatable Flanges



Part Number	Dimensions in Inches		
	Flange Size	Tube O.D.	A
V*-2K-C3A-TG	1.33	3/4"	0.94
V*-2K-C3B-TG	2.12	1"	1.14
V*-2K-C3C-TG	2.75	1-1/2"	1.74
V*-2K-C3D-TG	3.38	2"	2.07
V*-2K-C3E-TG	4.50	2-1/2"	3.37
V*-2K-C3F-TG	4.62	3"	3.96
V*-2K-C3G-TG	6.00	4"	5.22

Part Number	Dimensions in Millimeters		
	Flange Size	Tube O.D.	A
V*-2K-C3A-TG	33.78	19.05	23.88
V*-2K-C3B-TG	53.85	25.40	28.96
V*-2K-C3C-TG	69.85	38.10	44.20
V*-2K-C3D-TG	85.85	50.80	52.58
V*-2K-C3E-TG	114.30	63.50	85.60
V*-2K-C3F-TG	117.35	76.20	100.58
V*-2K-C3G-TG	152.40	101.60	132.59

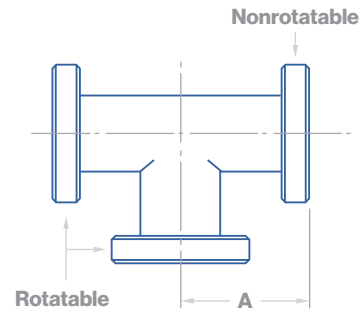
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L

Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



CF Equal Tee

Nonrotatable, Rotatable Flanges



Part Number	Dimensions in Inches		
	Flange Size	Tube O.D.	A
V*-7-C3A-TB	1.33	3/4"	1.50
V*-7-C3B-TB	2.12	1"	2.05
V*-7-C3C-TB	2.75	1-1/2"	2.46
V*-7-C3D-TB	3.38	2"	3.22
V*-7-C3E-TB	4.50	2-1/2"	3.38
V*-7L-C3E-TB	4.50	2-1/2"	4.12
V*-7-C3F-TB	4.62	3"	3.53
V*-7-C3G-TB	6.00	4"	4.32
V*-7L-C3G-TB	6.00	4"	5.31
V*-7-C3H-TB	6.75	5"	4.71
V*-7-C3J-TB	8.00	6"	5.50
V*-7L-C3J-TB	8.00	6"	6.56
V*-7-C3K-TB	10.00	8"	7.50
V*-7-C3M-TB	13.25	10"	10.00

Part Number	Dimensions in Millimeters		
	Flange Size	Tube O.D.	A
V*-7-C3A-TB	33.78	19.05	38.10
V*-7-C3B-TB	53.85	25.40	52.07
V*-7-C3C-TB	69.85	38.10	62.48
V*-7-C3D-TB	85.85	50.80	81.79
V*-7-C3E-TB	114.30	63.50	85.85
V*-7L-C3E-TB	114.30	63.50	104.65
V*-7-C3F-TB	117.35	76.20	89.66
V*-7-C3G-TB	152.40	101.60	109.73
V*-7L-C2GTB	152.40	101.60	134.87
V*-7-C3H-TB	171.45	127.00	119.63
V*-7-C3J-TB	203.20	152.40	139.70
V*-7L-C3J-TB	203.20	152.40	166.62
V*-7-C3K-TB	254.00	203.20	190.50
V*-7-C3M-TB	336.55	254.00	254.00

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



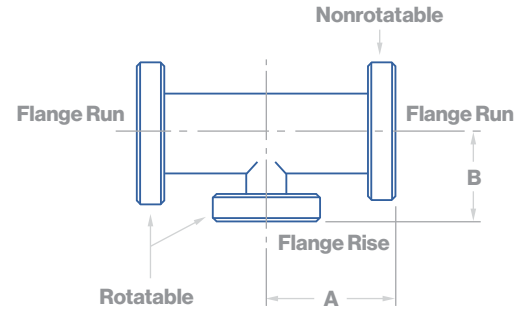
Valex

Vacuum Components

CF Tees

CF Reducing Tee

Nonrotatable, Rotatable Flanges



Part Number	Dimensions in Inches					
	Flange Run (Rotatable)		Flange Rise (Nonrotatable)		A	B
	Flange Size	Tube O.D.	Flange O.D.	Tube O.D.		
V*-7R-C3CXC3A-TB	2.75	1-1/2"	1.33	3/4"	2.46	1.87
V*-7R-C3CXC3B-TB	2.75	1-1/2"	2.12	1"	2.46	2.29
V*-7R-C3DXC3A-TB	3.38	2"	1.33	3/4"	3.22	2.13
V*-7R-C3DXC3C-TB	3.38	2"	2.75	1-1/2"	3.22	2.71
V*-7R-C3EXC3C-TB	4.50	2-1/2"	2.75	1-1/2"	3.38	2.96
V*-7R-C3EXC3D-TB	4.50	2-1/2"	3.38	2"	3.38	3.48
V*-7R-C3FXC3D-TB	4.62	3"	3.38	2"	3.53	3.73
V*-7R-C3FXC3E-TB	4.62	3"	4.50	2-1/2"	3.53	3.63
V*-7R-C3GXC3C-TB	6.00	4"	2.75	1-1/2"	4.32	3.71
V*-7R-C3GXC3D-TB	6.00	4"	3.38	2"	4.32	4.23
V*-7R-C3GXC3E-TB	6.00	4"	4.50	2-1/2"	4.32	4.13
V*-7R-C3GXC3F-TB	6.00	4"	4.62	3"	4.32	4.03
V*-7R-C3HXC3G-TB	6.75	5"	6.00	4"	4.71	4.82
V*-7R-C3JXC3C-TB	8.00	6"	2.75	1-1/2"	5.50	4.71
V*-7R-C3JXC3D-TB	8.00	6"	3.38	2"	5.50	5.23
V*-7R-C3JXC3E-TB	8.00	6"	4.50	2-1/2"	5.50	5.13
V*-7R-C3JXC3G-TB	8.00	6"	6.00	4"	5.50	5.32
V*-7R-C3KXC3G-TB	10.00	8"	8.00	6"	7.50	6.50

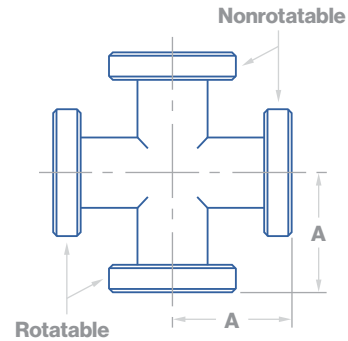
Part Number	Dimensions in Millimeters					
	Flange 1 & 2 (Rotatable)		Flange 3 (Nonrotatable)		A	B
	Flange Size	Tube O.D.	Flange O.D.	Tube O.D.		
V*-7R-C3CXC3A-TB	69.85	38.10	33.78	19.05	62.48	47.50
V*-7R-C3CXC3B-TB	69.85	38.10	53.85	25.40	62.48	58.17
V*-7R-C3DXC3A-TB	85.85	50.80	33.78	19.05	81.79	54.10
V*-7R-C3DXC3C-TB	85.85	50.80	69.85	38.10	81.79	68.83
V*-7R-C3EXC3C-TB	114.30	63.50	69.85	38.10	85.85	75.18
V*-7R-C3EXC3D-TB	114.30	63.50	85.85	50.80	85.85	88.39
V*-7R-C3FXC3D-TB	117.35	76.20	85.85	50.80	89.66	94.74
V*-7R-C3FXC3E-TB	117.35	76.20	114.30	63.50	89.66	92.20
V*-7R-C3GXC3C-TB	152.40	101.60	69.85	38.10	109.73	94.23
V*-7R-C3GXC3D-TB	152.40	101.60	85.85	50.80	109.73	107.44
V*-7R-C3GXC3E-TB	152.40	101.60	114.30	63.50	109.73	104.90
V*-7R-C3GXC3F-TB	152.40	101.60	117.35	76.20	109.73	102.36
V*-7R-C3HXC3G-TB	171.45	127.00	152.40	101.60	119.63	122.43
V*-7R-C3JXC3C-TB	203.20	152.40	69.85	38.10	139.70	119.63
V*-7R-C3JXC3D-TB	203.20	152.40	85.85	50.80	139.70	132.84
V*-7R-C3JXC3E-TB	203.20	152.40	114.30	63.50	139.70	130.30
V*-7R-C3JXC3G-TB	203.20	152.40	152.40	101.60	139.70	135.13
V*-7R-C3KXC3G-TB	254.00	203.20	203.20	152.40	190.50	165.10

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
 Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



CF 4-Way Cross

Nonrotatable, Rotatable Flanges



Part Number	Dimensions in Inches		
	Flange Size	Tube O.D.	A
V*-9-C3A-TC	1.33	3/4"	1.50
V*-9-C3B-TC	2.12	1"	2.05
V*-9-C3C-TC	2.75	1-1/2"	2.46
V*-9-C3D-TC	3.38	2"	3.22
V*-9-C3E-TC	4.50	2-1/2"	3.38
V*-9L-C3E-TC	4.50	2-1/2"	4.12
V*-9-C3F-TC	4.62	3"	3.53
V*-9-C3G-TC	6.00	4"	4.32
V*-9L-C3G-TC	6.00	4"	5.31
V*-9-C3H-TC	6.75	5"	4.71
V*-9-C3J-TC	8.00	6"	5.50
V*-9L-C3J-TC	8.00	6"	6.56
V*-9-C3K-TC	10.00	8"	7.50
V*-9-C3M-TC	13.25	10"	10.00

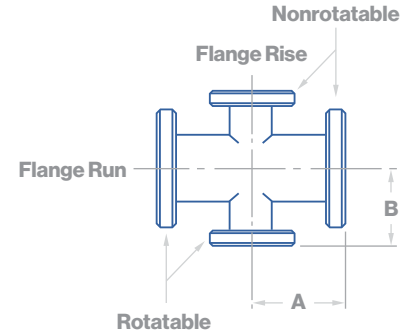
Part Number	Dimensions in Millimeters		
	Flange Size	Tube O.D.	A
V*-9-C3A-TC	33.78	19.05	38.10
V*-9-C3B-TC	53.85	25.40	52.07
V*-9-C3C-TC	69.85	38.10	62.48
V*-9-C3D-TC	85.85	50.80	81.79
V*-9-C3E-TC	114.30	63.50	85.85
V*-9L-C3E-TC	114.30	63.50	104.65
V*-9-C3F-TC	117.35	76.20	89.66
V*-9-C3G-TC	152.40	101.60	109.73
V*-9L-C3G-TC	152.40	101.60	134.87
V*-9-C3H-TC	171.45	127.00	119.63
V*-9-C3J-TC	203.20	152.40	139.70
V*-9L-C3J-TC	203.20	152.40	166.62
V*-9-C3K-TC	254.00	203.20	190.50
V*-9-C3M-TC	336.55	254.00	254.00

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



CF 4-Way Reducing Cross

Nonrotatable, Rotatable Flanges



Part Number	Dimensions in Inches					
	Flange Run		Flange Rise		A	B
	Flange Size	Tube O.D.	Flange Size	Tube O.D.		
V*-9R-C3CXC3A-TC	2.75	1-1/2"	1.33	3/4"	2.46	1.87
V*-9R-C3CXC3B-TC	2.75	1-1/2"	2.12	1"	2.46	2.29
V*-9R-C3DXC3A-TC	3.38	2"	1.33	3/4"	3.22	2.13
V*-9R-C3DXC3C-TC	3.38	2"	2.75	1-1/2"	3.22	2.71
V*-9R-C3EXC3C-TC	4.50	2-1/2"	2.75	1-1/2"	3.38	2.96
V*-9R-C3EXC3D-TC	4.50	2-1/2"	3.38	2"	3.38	3.48
V*-9R-C3FXC3D-TC	4.62	3"	3.38	2"	3.53	3.73
V*-9R-C3FXC3E-TC	4.62	3"	4.50	2-1/2"	3.53	3.63
V*-9R-C3GXC3C-TC	6.00	4"	2.75	1-1/2"	4.32	3.71
V*-9R-C3GXC3D-TC	6.00	4"	3.38	2"	4.32	4.23
V*-9R-C3GXC3E-TC	6.00	4"	4.50	2-1/2"	4.32	4.13
V*-9R-C3GXC3F-TC	6.00	4"	4.62	3"	4.32	4.03
V*-9R-C3HXC3G-TC	6.75	5"	6.00	4"	4.71	4.82
V*-9R-C3JXC3C-TC	8.00	6"	2.75	1-1/2"	5.50	4.71
V*-9R-C3JXC3D-TC	8.00	6"	3.38	2"	5.50	5.23
V*-9R-C3JXC3E-TC	8.00	6"	4.50	2-1/2"	5.50	5.13
V*-9R-C3JXC3G-TC	8.00	6"	6.00	4"	5.50	5.32
V*-9R-C3KXC3J-TC	10.00	6"	8.00	6"	7.50	6.50

Part Number	Dimensions in Millimeters					
	Flange Run		Flange Rise		A	B
	Flange Size	Tube O.D.	Flange Size	Tube O.D.		
V*-9R-C3CXC3A-TC	69.85	38.10	33.78	19.05	62.48	47.50
V*-9R-C3CXC3B-TC	69.85	38.10	53.85	25.40	62.48	58.17
V*-9R-C3DXC3A-TC	85.85	50.80	33.78	19.05	81.79	54.10
V*-9R-C3DXC3C-TC	85.85	50.80	69.85	38.10	81.79	68.83
V*-9R-C3EXC3C-TC	114.30	63.50	69.85	38.10	85.85	75.18
V*-9R-C3EXC3D-TC	114.30	63.50	85.85	50.80	85.85	88.39
V*-9R-C3FXC3D-TC	117.35	76.20	85.85	50.80	89.66	94.74
V*-9R-C3FXC3E-TC	117.35	76.20	114.30	63.50	89.66	92.20
V*-9R-C3GXC3C-TC	152.40	101.60	69.85	38.10	109.73	94.23
V*-9R-C3GXC3D-TC	152.40	101.60	85.85	50.80	109.73	107.44
V*-9R-C3GXC3E-TC	152.40	101.60	114.30	63.50	109.73	104.90
V*-9R-C3GXC3F-TC	152.40	101.60	117.35	76.20	109.73	102.36
V*-9R-C3HXC3G-TC	171.45	127.00	152.40	101.60	119.63	122.43
V*-9R-C3JXC3C-TC	203.20	152.40	69.85	38.10	139.70	119.63
V*-9R-C3JXC3D-TC	203.20	152.40	85.85	50.80	139.70	132.84
V*-9R-C3JXC3E-TC	203.20	152.40	114.30	63.50	139.70	130.30
V*-9R-C3JXC3G-TC	203.20	152.40	152.40	101.60	139.70	135.13
V*-9R-C3KXC3J-TC	254.00	152.40	203.20	152.40	190.50	165.10

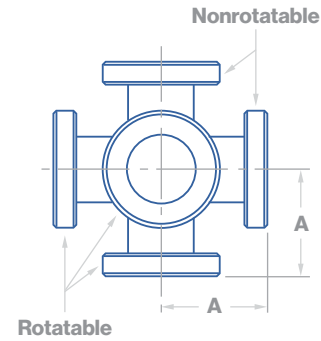
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



Valex
Vacuum
Components

CF 5-Way Cross

Nonrotatable, Rotatable Flanges



Part Number	Dimensions in Inches & Millimeters					
	Flange Size		Tube O.D.		A	
	inch	mm	inch	mm	inch	mm
V*-9F-C3A-TD	1.33	33.78	3/4"	19.05	1.50	38.10
V*-9F-C3B-TD	2.12	53.85	1"	25.40	2.05	52.07
V*-9F-C3C-TD	2.75	69.85	1-1/2"	38.10	2.46	62.48
V*-9F-C3D-TD	3.38	85.85	2"	50.80	3.22	81.79
V*-9F-C3E-TD	4.50	114.30	2-1/2"	63.50	3.38	85.85
V*-9E-C3E-TD	4.50	114.30	2-1/2"	63.50	4.12	104.65
V*-9F-C3F-TD	4.62	117.35	3"	76.20	3.53	89.66
V*-9F-C3G-TD	6.00	152.40	4"	101.60	4.32	109.73
V*-9E-C3G-TD	6.00	152.40	4"	101.60	5.31	134.87
V*-9F-C3H-TD	6.75	171.45	5"	127.00	4.71	119.63
V*-9F-C3J-TD	8.00	203.20	6"	152.40	5.50	139.70
V*-9E-C3J-TD	8.00	203.20	6"	152.40	6.56	166.62
V*-9F-C3K-TD	10.00	254.00	8"	203.20	7.50	190.50
V*-9F-C3M-TD	13.25	336.55	10"	254.00	10.00	254.00

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

CF
Crosses



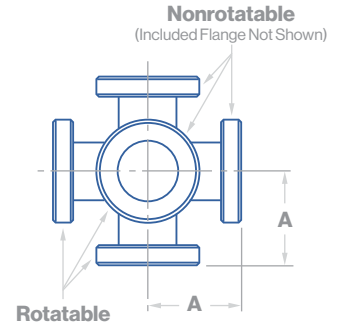
Valex

Vacuum
Components

CF
Crosses

CF 6-Way Cross

Nonrotatable, Rotatable Flanges

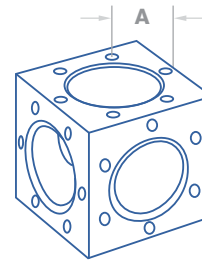


Part Number	Dimensions in Inches & Millimeters					
	Flange Size		Tube O.D.		A	
	inch	mm	inch	mm	inch	mm
V*-9S-C3A-TE	1.33	33.78	3/4"	19.05	1.50	38.10
V*-9S-C3B-TE	2.12	53.85	1"	25.40	2.05	52.07
V*-9S-C3C-TE	2.75	69.85	1-1/2"	38.10	2.46	62.48
V*-9S-C3D-TE	3.38	85.85	2"	50.80	3.22	81.79
V*-9S-C3E-TE	4.50	114.30	2-1/2"	63.50	3.38	85.85
V*-9T-C3E-TE	4.50	114.30	2-1/2"	63.50	4.12	104.65
V*-9S-C2F-TE	4.62	117.35	3"	76.20	3.53	89.66
V*-9S-C2G-TE	6.00	152.40	4"	101.60	4.32	109.73
V*-9T-C2G-TE	6.00	152.40	4"	101.60	5.31	134.87
V*-9S-C2H-TE	6.75	171.45	5"	127.00	4.71	119.63
V*-9S-C2J-TE	8.00	203.20	6"	152.40	5.50	139.70
V*-9T-C2J-TE	8.00	203.20	6"	152.40	6.56	116.62
V*-9S-C2K-TE	10.00	254.00	8"	203.20	7.50	109.50
V*-9S-C2M-TE	13.25	336.55	10"	254.00	10.00	254.00

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



CF 6-Way Cube Cross



Part Number	Dimensions in Inches & Millimeters			
	Nominal Flange Size		A	
	inch	mm	inch	mm
V*-9C-C3A	1.33	33.78	0.67	17.02
V*-9C-C3C	2.75	69.85	1.37	34.80
V*-9C-C3E	4.50	114.30	2.24	56.90
V*-9C-C3G	6.00	152.40	2.98	75.69
V*-9C-C3J	8.00	203.20	3.98	101.09

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

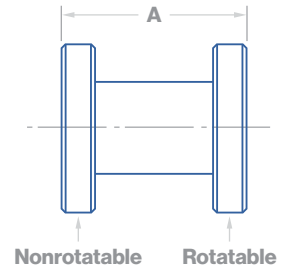


Valex
Vacuum
Components

CF
Nipples

CF Full Nipple

Nonrotatable x Rotatable



Part Number	Dimensions in Inches & Millimeters					
	Flange Size		Tube O.D.		A	
	inch	mm	inch	mm	inch	mm
V*-6F-C3A-TA	1.33	33.78	3/4"	19.05	3.00	76.20
V*-6F-C3B-TA	2.12	53.85	1"	25.40	4.10	104.14
V*-6F-C3C-TA	2.75	69.85	1-1/2"	38.10	4.92	124.97
V*-6F-C3D-TA	3.38	85.85	2"	50.80	6.44	163.58
V*-6F-C3E-TA	4.50	114.30	2-1/2"	63.50	6.76	171.70
V*-6E-C3E-TA	4.50	114.30	2-1/2"	63.50	8.24	209.30
V*-6F-C3F-TA	4.62	117.35	3"	76.20	7.06	179.32
V*-6F-C3G-TA	6.00	152.40	4"	101.60	8.64	219.46
V*-6E-C3G-TA	6.00	152.40	4"	101.60	10.62	269.75
V*-6F-C3J-TA	8.00	203.20	6"	152.40	11.00	279.40
V*-6E-C3J-TA	8.00	203.20	6"	152.40	13.12	333.25
V*-6F-C3K-TA	10.00	254.00	8"	203.20	15.00	381.00
V*-6F-C3M-TA	13.25	336.55	10"	254.00	20.00	508.00
V*-6F-C3N-TA	14.00	355.60	12"	304.80	20.00	508.00

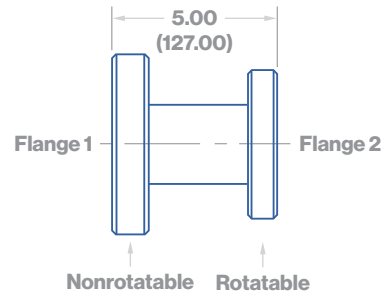
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L

Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



CF Straight Reducer

Nonrotatable x Rotatable



Part Number	Dimensions in Millimeters					
	Flange 1		Flange 2		Tube O.D.	
	inch	mm	inch	mm	inch	mm
V*-31S-C3GXC3C-TA	6.00	152.40	2.75	69.85	1.50	38.10
V*31S-C3JXC3C-TA	8.00	203.20	2.75	69.85	1.50	38.10
V*-31S-C3JXC3E-TA	8.00	203.20	4.50	114.30	2.50	63.50
V*-31S-C3JXC3G-TA	8.00	203.20	6.00	152.40	4.00	101.60
V*-31S-C3KXC3C-TA	10.00	254.00	2.75	69.85	1.50	38.10
V*-31S-C3KXC3E-TA	10.00	254.00	4.50	114.30	2.50	63.50
V*-31S-C3KXC3G-TA	10.00	254.00	6.00	152.40	4.00	101.60
V*-31S-C3KXC3J-TA	10.00	254.00	8.00	203.20	6.00	152.40
V*-31S-C3MXC3K-TA	13.25	336.55	10.00	254.00	8.00	203.20
V*-31S-C3NXC3L-TA	14.00	355.60	12.00	304.80	10.00	254.00

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



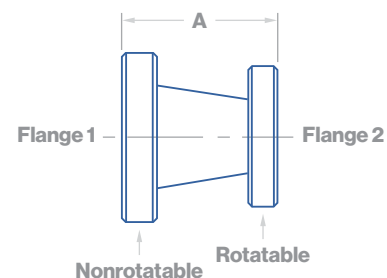
Valex

Vacuum
Components

CF Nipples

CF Conical Reducer

Nonrotatable x Rotatable



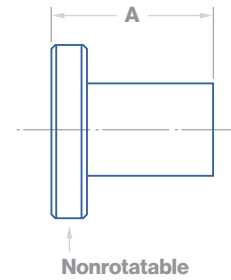
Part Number	Dimensions in Inches				
	Flange 1		Flange 2		A
	Flange Size	Tube O.D.	Flange Size	Tube O.D.	
V*-31-C3BXC3A-TA	2.12	1"	1.33	3/4"	2.04
V*-31-C3CXC3A-TA	2.75	1-1/2"	1.33	3/4"	3.08
V*-31-C3CXC3B-TA	2.75	1-1/2"	2.12	1"	2.75
V*-31-C3DXC3B-TA	3.38	2"	2.12	1"	2.77
V*-31-C3DXC3C-TA	3.38	2"	2.75	1-1/2"	2.81
V*-31-C3EXC3C-TA	4.50	2-1/2"	2.75	1-1/2"	2.96
V*-31-C3EXC3D-TA	4.50	2-1/2"	3.38	2"	2.98
V*-31-C3FXC3C-TA	4.62	3"	2.75	1-1/2"	4.12
V*-31-C3FXC3D-TA	4.62	3"	3.38	2"	4.13
V*-31-C3FXC3E-TA	4.62	3"	4.50	2-1/2"	4.28
V*-31-C3GXC3D-TA	6.00	4"	3.38	2"	4.29
V*-31-C3GXC3E-TA	6.00	4"	4.50	2-1/2"	4.44
V*-31-C3GXC3F-TA	6.00	4"	4.62	3"	4.34

Part Number	Dimensions in Millimeters				
	Flange 1		Flange 2		A
	Flange Size	Tube O.D.	Flange Size	Tube O.D.	
V*-31-C3BXC3A-TA	53.85	25.40	33.78	19.05	51.82
V*-31-C3CXC3A-TA	69.85	38.10	33.78	19.05	78.23
V*-31-C3CXC3B-TA	69.85	38.10	53.85	25.40	69.85
V*-31-C3DXC3B-TA	85.85	50.80	53.85	25.40	70.36
V*-31-C3DXC3C-TA	85.85	50.80	69.85	38.10	71.37
V*-31-C3EXC3C-TA	114.30	63.50	69.85	38.10	75.18
V*-31-C3EXC3D-TA	114.30	63.50	85.85	50.80	75.69
V*-31-C3FXC3C-TA	117.35	76.20	69.85	38.10	104.65
V*-31-C3FXC3D-TA	117.35	76.20	85.85	50.80	104.90
V*-31-C3FXC3E-TA	117.35	76.20	114.30	63.50	108.71
V*-31-C3GXC3D-TA	152.40	101.60	85.85	50.80	108.97
V*-31-C3GXC3E-TA	152.40	101.60	114.30	63.50	112.78
V*-31-C3GXC3F-TA	152.40	101.60	117.35	76.20	110.24

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
 Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



CF Half Nipple



Part Number	Dimensions in Inches & Millimeters					
	Flange Size		Tube O.D.		A	
	inch	mm	inch	mm	inch	mm
V*-6H-C3A-NA	1.33	33.78	3/4"	19.05	1.50	38.10
V*-6H-C3B-NA	2.12	53.85	1"	25.40	2.05	52.07
V*-6H-C3C-NA	2.75	69.85	1-1/2"	38.10	2.46	62.48
V*-6H-C3D-NA	3.38	85.85	2"	50.80	3.22	81.79
V*-6H-C3E-NA	4.50	114.30	2-1/2"	63.50	3.38	85.85
V*-6H-C3E-NB	4.50	114.30	2-1/2"	63.50	4.12	104.65
V*-6H-C3F-NA	4.62	117.35	3"	76.20	3.53	89.66
V*-6H-C3G-NA	6.00	152.40	4"	101.60	4.32	109.73
V*-6H-C3G-NB	6.00	152.40	4"	101.60	5.31	134.87
V*-6H-C3J-NA	8.00	203.20	6"	152.40	5.50	139.70
V*-6H-C3J-NB	8.00	203.20	6"	152.40	6.56	166.62
V*-6H-C3K-NA	10.00	254.00	8"	203.20	7.50	190.50
V*-6H-C3M-NA	13.25	336.55	10"	254.00	10.00	254.00
V*-6H-C3N-NA	14.00	355.60	12"	304.80	10.00	254.00

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



Valex

Vacuum
Components

CF Plate Nuts

CF Plate Nut

Plate nut for 1-1/3" and 2-3/4" flanges

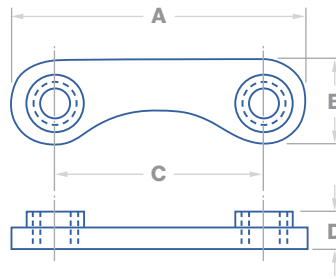
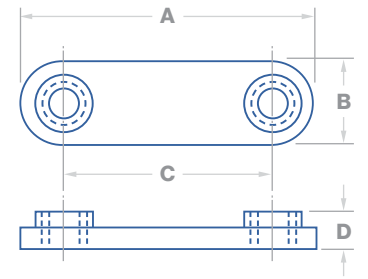


Plate nut for flanges larger than 2-3/4"



Part Number
V0-70P-C3A-PSX
V0-70P-C3C-PSX
V0-70P-C3C-PMX
V0-70P-C3D-PSX
V0-70P-C3E-PSX
V0-70P-C3E-PMX
V0-70P-C3F-PSX
V0-70P-C3G-PSX
V0-70P-C3G-PMX
V0-70P-C3J-PSX
V0-70P-C3J-PMX
V0-70P-C3K-PSX

Dimensions in Inches						
Flange Size	Thread Size	A	B	C	D	
1.33	8-32	0.80	0.30	0.53	0.15	
2.75	1/4-28	1.59	0.50	1.15	0.18	
2.75	M6	1.59	0.50	1.15	0.18	
3.38	5/16-24	1.75	0.50	1.09	0.22	
4.50	5/16-24	2.03	0.50	1.39	0.22	
4.50	M8	2.03	0.50	1.39	0.22	
4.62	5/16-24	1.75	0.50	1.25	0.22	
6	5/16-24	1.75	0.50	1.00	0.22	
6	M8	1.75	0.50	1.00	0.22	
8	5/16-24	1.75	0.50	1.12	0.22	
8	M8	1.75	0.50	1.12	0.22	
10	5/16-24	1.75	0.50	1.19	0.22	

Part Number
V0-70P-C3A-PSX
V0-70P-C3C-PSX
V0-70P-C3C-PMX
V0-70P-C3D-PSX
V0-70P-C3E-PSX
V0-70P-C3E-PMX
V0-70P-C3F-PSX
V0-70P-C3G-PSX
V0-70P-C3G-PMX
V0-70P-C3J-PSX
V0-70P-C3J-PMX
V0-70P-C3K-PSX

Dimensions in Millimeters						
Flange Size	Thread Size	A	B	C	D	
40	8-32	20.32	7.62	13.46	3.81	
70	1/4-28	40.39	12.70	29.21	4.57	
70	M6	40.39	12.70	29.21	4.57	
86	5/16-24	44.45	12.70	27.69	5.59	
114	5/16-24	51.56	12.70	35.31	5.59	
114	M8	51.56	12.70	35.31	5.59	
117	5/16-24	44.45	12.70	31.75	5.59	
152	5/16-24	44.45	12.70	25.40	5.59	
152	M8	44.45	12.70	25.40	5.59	
200	5/16-24	44.45	12.70	28.45	5.59	
200	M8	44.45	12.70	28.45	5.59	
254	5/16-24	44.45	12.70	30.23	5.59	



CF Plate Nut Assembly Kit

With Hex Head Bolts

Part Number	Dimensions in Inches & Millimeters				
	Flange O.D.		Plate Nut Quantity	Stainless Steel Bolts & Washers	
	inch	mm		Quantity	Size
V0-70R-C3A-P*A	1.33	34	12	24	8-32 x 3/4"
V0-70R-C3C-P*A	2.75	70	12	24	1/4"-28 X 1-1/4"
V0-70R-C3D-P*A	3.38	86	16	32	5/16"-24 X 1-3/4"
V0-70R-C3E-P*A	4.50	114	16	32	5/16"-24 X 2"
V0-70R-C3F-P*A	4.62	117	20	40	5/16"-24 X 2-1/4"
V0-70R-C3G-P*A	6.00	152	16	32	5/16"-24 X 2-1/4"
V0-70R-C3J-P*A	8.00	200	16	32	5/16"-24 X 2-1/4"
V0-70R-C3K-P*A	10.00	254	24	48	5/16"-24 X 2-1/2"

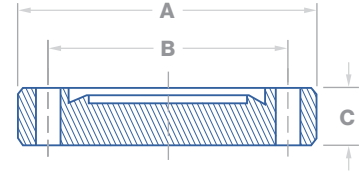
* Thread: T = Inch, 10-8SS (Bolts), U = Inch, 10-8SS, Silver-Plated (Bolts), V = Metric, 10-8SS (Bolts), W = Metric, 10-8SS, Silver-Plated (Bolts)



Valex

Vacuum
Components

CF
Flanges



CF Blank Flange

Nonrotatable, Clearance Bolt Holes

Part Number	Dimensions in Inches					
	Flange Size	A	B	C	Bolt Holes	Diameter
V*-38-C3A-FF	1.33	1.330	1.062	0.300	6	0.172
V*-38-C3B-FF	2.12	2.120	1.625	0.469	4	0.265
V*-38-C3C-FF	2.75	2.730	2.312	0.500	6	0.265
V*-38-C3D-FF	3.38	3.360	2.850	0.687	8	0.332
V*-38-C3E-FF	4.50	4.470	3.628	0.687	8	0.332
V*-38-C3F-FF	4.62	4.610	4.030	0.812	10	0.332
V*-38-C3G-FF	6.00	5.970	5.128	0.781	16	0.332
V*-38-C3H-FF	6.75	6.730	5.969	0.844	18	0.332
V*-38-C3J-FF	8.00	7.970	7.128	0.937	20	0.332
V*-38-C3K-FF	10.00	9.970	9.128	0.968	24	0.332
V*-38-C3L-FF	12.00	12.000	11.181	1.125	32	0.332
V*-38-C3M-FF	13.25	13.250	12.055	1.125	30	0.390
V*-38-C3N-FF	14.00	14.000	12.810	1.125	30	0.390
V*-38-C3Q-FF	16.50	16.500	15.310	1.125	36	0.390

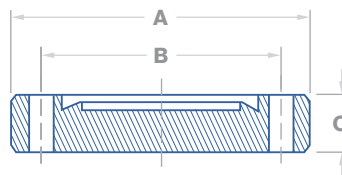
Part Number	Dimensions in Millimeters					
	Flange Size	A	B	C	Bolt Holes	Diameter
V*-38-C3A-FF	33.78	33.78	26.98	7.62	6	4.37
V*-38-C3B-FF	53.85	53.85	41.28	11.91	4	6.73
V*-38-C3C-FF	69.85	69.34	58.73	12.70	6	6.73
V*-38-C3D-FF	85.85	85.34	72.39	17.45	8	8.43
V*-38-C3E-FF	114.30	113.54	92.15	17.45	8	8.43
V*-38-C3F-FF	117.35	117.09	102.36	20.62	10	8.43
V*-38-C3G-FF	152.40	151.64	130.25	19.84	16	8.43
V*-38-C3H-FF	171.45	170.94	151.61	21.44	18	8.43
V*-38-C3J-FF	203.20	202.44	181.05	22.71	20	8.43
V*-38-C3K-FF	254.00	253.24	231.85	24.59	24	8.43
V*-38-C3L-FF	304.80	304.80	284.00	28.58	32	8.43
V*-38-C3M-FF	336.55	336.55	306.20	28.58	30	9.91
V*-38-C3N-FF	355.60	355.60	325.37	28.58	30	9.91
V*-38-C3Q-FF	419.10	419.10	388.87	28.58	36	9.91

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
 Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



CF Blank Flange

Nonrotatable, Tapped Bolt Holes



Part Number	Dimensions in Inches					
	Flange Size	A	B	C	Bolt Holes	Diameter
V*-38-C3A-FS	1.33	1.330	1.062	0.300	6	8-32
V*-38-C3B-FS	2.12	2.120	1.625	0.469	4	1/4-28
V*-38-C3C-FS	2.75	2.730	2.312	0.500	6	1/4-28
V*-38-C3D-FS	3.38	3.360	2.850	0.687	8	5/16-24
V*-38-C3E-FS	4.50	4.470	3.628	0.687	8	5/16-24
V*-38-C3F-FS	4.62	4.610	4.030	0.812	10	5/16-24
V*-38-C3G-FS	6.00	5.970	5.128	0.781	16	5/16-24
V*-38-C3H-FS	6.75	6.730	5.969	0.844	18	5/16-24
V*-38-C3J-FS	8.00	7.970	7.128	0.937	20	5/16-24
V*-38-C3K-FS	10.00	9.970	9.128	0.968	24	5/16-24
V*-38-C3L-FS	12.00	12.000	11.181	1.125	32	5/16-24
V*-38-C3M-FS	13.25	13.250	12.055	1.125	30	3/8-24
V*-38-C3N-FS	14.00	14.000	12.810	1.125	30	3/8-24
V*-38-C3Q-FS	16.50	16.500	15.310	1.125	36	3/8-24

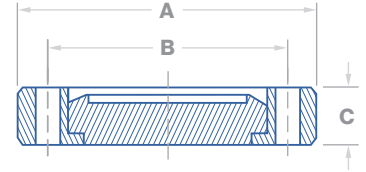
Part Number	Dimensions in Millimeters					
	Flange Size	A	B	C	Bolt Holes	Diameter
V*-38-C3A-FS	33.78	33.78	26.98	7.62	6	8-32
V*-38-C3B-FS	53.85	53.85	41.28	11.91	4	1/4-28
V*-38-C3C-FS	69.85	69.34	58.73	12.70	6	1/4-28
V*-38-C3D-FS	85.85	85.34	72.39	17.45	8	5/16-24
V*-38-C3E-FS	114.30	113.54	92.15	17.45	8	5/16-24
V*-38-C3F-FS	117.35	117.09	102.36	20.62	10	5/16-24
V*-38-C3G-FS	152.40	151.64	130.25	19.84	16	5/16-24
V*-38-C3H-FS	171.45	170.94	151.61	21.44	18	5/16-24
V*-38-C3J-FS	203.20	202.44	181.05	22.71	20	5/16-24
V*-38-C3K-FS	254.00	253.24	231.85	24.59	24	5/16-24
V*-38-C3L-FS	304.80	304.80	284.00	28.58	32	5/16-24
V*-38-C3M-FS	336.55	336.55	306.20	28.58	30	3/8-24
V*-38-C3N-FS	355.60	355.60	325.37	28.58	30	3/8-24
V*-38-C3Q-FS	419.10	419.10	388.87	28.58	36	3/8-24

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

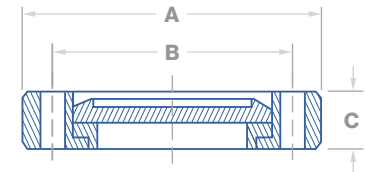


CF Blank Rotatable Flange

Clearance Bolt Holes



Part Number	Dimensions in Inches**					
	Flange Size	A	B	C	Bolt Holes	Diameter
V*-38-C3A-FR	1.33	1.330	1.062	0.300	6	0.172



Part Number	Dimensions in Inches**					
	Flange Size	A	B	C	Bolt Holes	Diameter
V*-38-C3B-FR	2.12	2.120	1.625	0.469	4	0.265
V*-38-C3C-FR	2.75	2.730	2.312	0.500	6	0.265
V*-38-C3D-FR	3.38	3.360	2.850	0.687	8	0.332
V*-38-C3E-FR	4.50	4.470	3.628	0.750	8	0.332
V*-38-C3F-FR	4.62	4.610	4.030	0.812	10	0.332
V*-38-C3G-FR	6.00	5.970	5.128	0.844	16	0.332
V*-38-C3H-FR	6.75	6.730	5.969	0.844	18	0.332
V*-38-C3J-FR	8.00	7.970	7.128	0.937	20	0.332
V*-38-C3K-FR	10.00	9.970	9.128	0.968	24	0.332
V*-38-C3L-FR	12.00	12.000	11.181	1.125	32	0.332
V*-38-C3M-FR	13.25	13.250	12.055	1.125	30	0.390
V*-38-C3N-FR	14.00	14.000	12.810	1.125	30	0.390
V*-38-C3Q-FR	16.50	16.500	15.310	1.125	36	0.390

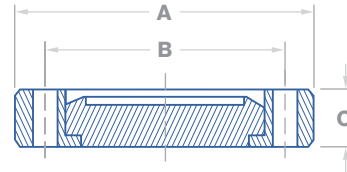
* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Millimeter dimensions on the following page

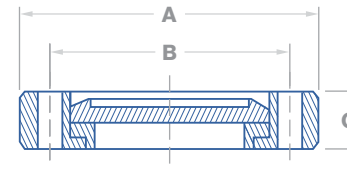


CF Blank Rotatable Flange

Clearance Bolt Holes



Part Number	Dimensions in Millimeters**					
	Flange Size	A	B	C	Bolt Holes	Diameter
V*-38-C3A-FR	33.78	33.78	26.98	7.62	6	4.369



Part Number	Dimensions in Millimeters**					
	Flange Size	A	B	C	Bolt Holes	Diameter
V*-38-C3B-FR	53.85	53.85	41.28	11.91	4	6.731
V*-38-C3C-FR	69.85	69.34	58.73	12.70	6	6.731
V*-38-C3D-FR	85.85	85.34	72.39	17.45	8	8.433
V*-38-C3E-FR	114.30	113.54	92.15	19.05	8	8.433
V*-38-C3F-FR	117.35	117.09	102.36	20.62	10	8.433
V*-38-C3G-FR	152.40	151.64	130.25	21.44	16	8.433
V*-38-C3H-FR	171.45	170.94	151.61	21.44	18	8.433
V*-38-C3J-FR	203.20	202.44	181.05	22.71	20	8.433
V*-38-C3K-FR	254.00	253.24	231.85	24.59	24	8.433
V*-38-C3L-FR	304.80	304.80	284.00	11.181	32	8.433
V*-38-C3M-FR	336.55	336.55	306.20	28.58	30	9.906
V*-38-C3N-FR	355.60	355.60	325.37	28.58	30	9.906
V*-38-C3Q-FR	419.10	419.10	388.87	28.58	36	9.906

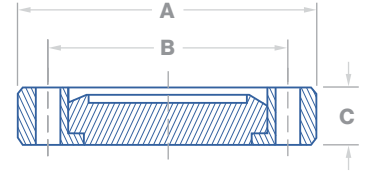
* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Inch dimensions on the following page

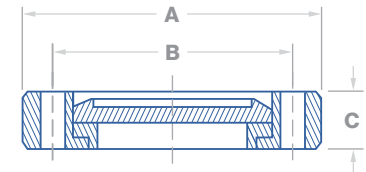


CF Blank Rotatable Flange

Tapped Bolt Holes



Part Number	Dimensions in Inches**					
	Flange Size	A	B	C	Bolt Holes	Threads
V*-38-C3A-FS	1.33	1.330	1.062	0.300	6	8-32



Part Number	Dimensions in Inches**					
	Flange Size	A	B	C	Bolt Holes	Threads
V*-38-C3B-FS	2.12	2.120	1.625	0.469	4	1/4-28
V*-38-C3C-FS	2.75	2.730	2.312	0.500	6	1/4-28
V*-38-C3D-FS	3.38	3.360	2.850	0.687	8	5/16-24
V*-38-C3E-FS	4.50	4.470	3.628	0.750	8	5/16-24
V*-38-C3F-FS	4.62	4.610	4.030	0.812	10	5/16-24
V*-38-C3G-FS	6.00	5.970	5.128	0.844	16	5/16-24
V*-38-C3H-FS	6.75	6.730	5.969	0.844	18	5/16-24
V*-38-C3J-FS	8.00	7.970	7.128	0.937	20	5/16-24
V*-38-C3K-FS	10.00	9.970	9.128	0.968	24	5/16-24
V*-38-C3L-FS	12.00	12.000	11.181	1.125	32	5/16-24
V*-38-C3M-FS	13.25	13.250	12.055	1.125	30	3/8-24
V*-38-C3N-FS	14.00	14.000	12.810	1.125	30	3/8-24
V*-38-C3Q-FS	16.50	16.500	15.310	1.125	36	3/8-24

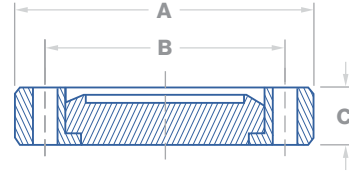
* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Millimeter dimensions on the following page

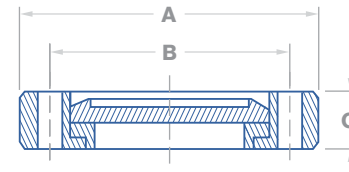


CF Blank Rotatable Flange

Tapped Bolt Holes



Part Number	Dimensions in Millimeters**					
	Flange Size	A	B	C	Bolt Holes	Threads
V*-38-C3A-FS	33.78	33.78	33.78	26.98	7.62	6



Part Number	Dimensions in Millimeters**					
	Flange Size	A	B	C	Bolt Holes	Threads
V*-38-C3B-FS	53.85	53.85	41.28	11.91	4	1/4-28
V*-38-C3C-FS	69.85	69.34	58.73	12.70	6	1/4-28
V*-38-C3D-FS	85.85	85.34	72.39	17.45	8	5/16-24
V*-38-C3E-FS	114.30	113.54	92.15	19.05	8	5/16-24
V*-38-C3F-FS	117.35	117.09	102.36	20.62	10	5/16-24
V*-38-C3G-FS	152.40	151.64	130.25	21.44	16	5/16-24
V*-38-C3H-FS	171.45	170.94	151.61	21.44	18	5/16-24
V*-38-C3J-FS	203.20	202.44	181.05	22.71	20	5/16-24
V*-38-C3K-FS	254.00	253.24	231.85	24.59	24	5/16-24
V*-38-C3L-FS	304.80	304.80	284.00	11.181	32	5/16-24
V*-38-C3N-FS	336.55	336.55	306.20	28.58	30	3/8-24
V*-38-C3N-FS	355.60	355.60	325.37	28.58	30	3/8-24
V*-38-C3Q-FS	419.10	419.10	388.87	28.58	36	3/8-24

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Inch dimensions on the following page



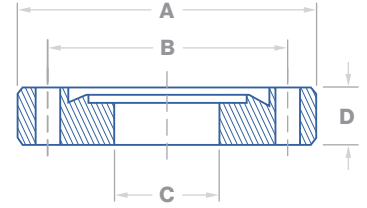
Valex

Vacuum
Components

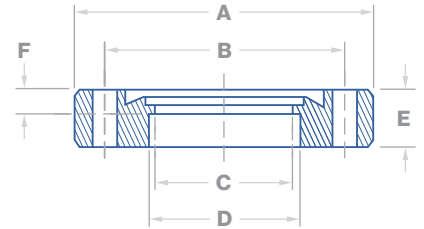
CF
Flanges

CF Bored Flange

Nonrotatable, Clearance Bolt Holes



Part Number	Dimensions in Inches**						
	Flange Size	A	B	C	D	Bolt Holes	Diameter
V*-38B-C3AXW04-FF	1.33	1.330	1.062	0.255	0.300	6	0.172
V*-38B-C3AXW06-FF	1.33	1.330	1.062	0.380	0.300	6	0.172
V*-38B-C3AXW08-FF	1.33	1.330	1.062	0.505	0.300	6	0.172



Part Number	Dimensions in Inches**								
	Flange Size	A	B	C	D	E	F	Bolt Holes	Diameter
V*-38B-C3BXW04-FF	2.12	2.120	1.625	0.255	N/A	0.469	N/A	4	0.265
V*-38B-C3BXW08-FF	2.12	2.120	1.625	0.505	N/A	0.469	N/A	4	0.265
V*-38B-C3BXW12-FF	2.12	2.120	1.625	0.688	0.760	0.469	0.167	4	0.265
V*-38B-C3BXW16-FF	2.12	2.120	1.625	0.938	1.010	0.469	0.167	4	0.265
V*-38B-C3CXW04-FF	2.75	2.730	2.312	0.255	N/A	0.500	N/A	6	0.265
V*-38B-C3CXW08-FF	2.75	2.730	2.312	0.505	N/A	0.500	N/A	6	0.265
V*-38B-C3CXW12-FF	2.75	2.730	2.312	0.688	0.760	0.500	0.209	6	0.265
V*-38B-C3CXW16-FF	2.75	2.730	2.312	0.938	1.010	0.500	0.209	6	0.265
V*-38B-C3CXW20-FF	2.75	2.730	2.312	1.188	1.260	0.500	0.209	6	0.265
V*-38B-C3CXW24-FF	2.75	2.730	2.312	1.438	1.510	0.500	0.209	6	0.265
V*-38B-C3CXW26-FF	2.75	2.730	2.312	1.560	1.635	0.500	0.209	6	0.265
V*-38B-C3CXW28-FF	2.75	2.730	2.312	1.620	1.760	0.500	0.209	6	0.265
V*-38B-C3DXW24-FF	3.38	3.360	2.850	1.438	1.510	0.687	0.225	8	0.332
V*-38B-C3DXW32-FF	3.38	3.360	2.850	1.938	2.010	0.687	0.225	8	0.332
V*-38B-C3EXW24-FF	4.50	4.470	3.628	1.438	1.510	0.687	0.375	8	0.332
V*-38B-C3EXW32-FF	4.50	4.470	3.628	1.938	2.010	0.687	0.375	8	0.332
V*-38B-C3EXW40-FF	4.50	4.470	3.628	2.438	2.510	0.687	0.375	8	0.332
V*-38B-C3FXW48-FF	4.62	4.610	4.030	2.938	3.010	0.812	0.281	10	0.332
V*-38B-C3GXW64-FF	6.00	5.970	5.128	3.910	4.010	0.781	0.438	16	0.332
V*-38B-C3HXW80-FF	6.75	6.730	5.969	4.875	5.010	0.844	0.460	18	0.332
V*-38B-C3JXW96-FF	8.00	7.970	7.128	5.875	6.020	0.937	0.500	20	0.332
V*-38B-C3KXW53-FF	10.00	9.970	9.128	7.875	8.020	0.968	0.500	24	0.332
V*-38B-C3LXW55-FF	12.00	12.000	11.181	9.875	10.020	1.125	0.500	32	0.332
V*-38B-C3MXW55-FF	13.25	13.250	12.055	9.875	10.020	1.125	0.500	30	0.390
V*-38B-C3NXW57-FF	14.00	14.000	12.810	11.875	12.030	1.125	0.500	30	0.390
V*-38B-C3QXW85-FF	16.50	16.500	15.310	13.750	14.020	1.125	0.500	36	0.390

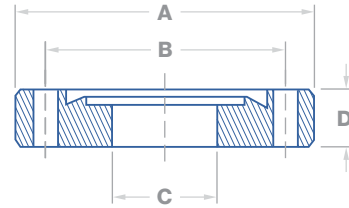
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Millimeter dimensions on the following page



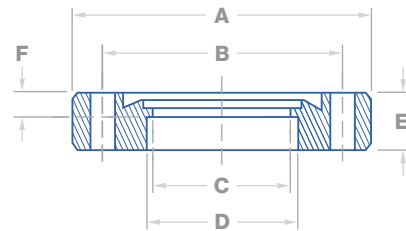
CF Bored Flange

Nonrotatable, Clearance Bolt Holes



Part Number
V*-38B-C3AXW04-FF
V*-38B-C3AXW06-FF
V*-38B-C3AXW08-FF

Dimensions in Millimeters**							
Flange Size	A	B	C	D	Bolt Holes	Diameter	
V*-38B-C3AXW04-FF	33.78	33.78	26.98	6.48	7.62	6	4.37
V*-38B-C3AXW06-FF	33.78	33.78	26.98	9.65	7.62	6	4.37
V*-38B-C3AXW08-FF	33.78	33.78	26.98	12.83	7.62	6	4.37



Part Number

Dimensions in Millimeters**									
Flange Size	A	B	C	D	E	F	Bolt Holes	Diameter	
V*-38B-C3BXW04-FF	53.85	53.85	41.28	6.48	N/A	11.91	N/A	4	6.73
V*-38B-C3BXW08-FF	53.85	53.85	41.28	12.83	N/A	11.91	N/A	4	6.73
V*-38B-C3BXW12-FF	53.85	53.85	41.28	17.48	19.30	11.91	4.24	4	6.73
V*-38B-C3BXW16-FF	53.85	53.85	41.28	23.83	25.65	11.91	4.24	4	6.73
V*-38B-C3CXW04-FF	69.85	69.34	58.73	6.48	N/A	12.70	N/A	6	6.73
V*-38B-C3CXW08-FF	69.85	69.34	58.73	12.83	N/A	12.70	N/A	6	6.73
V*-38B-C3CXW12-FF	69.85	69.34	58.73	17.48	19.30	12.70	5.31	6	6.73
V*-38B-C3CXW16-FF	69.85	69.34	58.73	23.83	25.65	12.70	5.31	6	6.73
V*-38B-C3CXW20-FF	69.85	69.34	58.73	30.18	32.00	12.70	5.31	6	6.73
V*-38B-C3CXW24-FF	68.85	69.34	58.73	36.53	38.35	12.70	5.31	6	6.73
V*-38B-C3CXW26-FF	68.85	69.34	58.73	39.62	41.53	12.70	5.31	6	6.73
V*-38B-C3CXW28-FF	69.85	69.34	58.73	41.15	44.70	12.70	5.31	6	6.73
V*-38B-C3DXW24-FF	85.85	85.34	72.39	36.53	38.35	17.45	5.72	8	8.43
V*-38B-C3DXW32-FF	85.85	85.34	72.39	49.23	51.05	17.45	5.72	8	8.43
V*-38B-C3EXW24-FF	114.30	113.54	92.15	36.53	38.35	17.45	9.53	8	8.43
V*-38B-C3EXW32-FF	114.30	113.54	92.15	49.23	51.05	17.45	9.53	8	8.43
V*-38B-C3EXW40-FF	114.30	113.54	92.15	61.93	63.75	17.45	9.53	8	8.43
V*-38B-C3FXW48-FF	117.35	117.09	102.36	74.63	76.45	20.62	7.14	10	8.43
V*-38B-C3GXW64-FF	152.40	151.64	130.25	99.31	101.85	19.84	11.13	16	8.43
V*-38B-C3HXW80-FF	171.45	170.94	151.61	123.83	127.25	21.44	11.68	18	8.43
V*-38B-C3JXW96-FF	203.20	202.44	181.05	149.23	152.91	22.71	12.70	20	8.43
V*-38B-C3KXW53-FF	254.00	253.24	231.85	200.03	203.71	24.59	12.70	24	8.43
V*-38B-C3LXW55-FF	304.80	304.80	284.00	250.83	254.51	28.58	12.70	32	8.43
V*-38B-C3MXW55-FF	336.55	336.55	306.20	250.83	254.51	28.58	12.70	30	9.91
V*-38B-C3NXW57-FF	355.60	355.60	325.37	301.63	305.56	28.58	12.70	30	9.91
V*-38B-C3QXW85-FF	419.10	419.10	388.87	349.25	356.11	28.58	12.70	36	9.91

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Inch dimensions on the following page



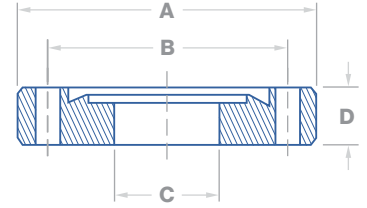
Valex

Vacuum
Components

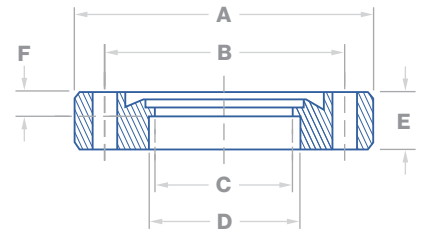
CF
Flanges

CF Bored Flange

Nonrotatable, Tapped Bolt Holes



Part Number	Dimensions in Inches**						
	Flange Size	A	B	C	D	Bolt Holes	Thread
V*-38B-C3AXW04-FS	1.33	1.330	1.062	0.255	0.300	6	8-32
V*-38B-C3AXW06-FS	1.33	1.330	1.062	0.380	0.300	6	8-32
V*-38B-C3AXW08-FS	1.33	1.330	1.062	0.505	0.300	6	8-32



Part Number	Dimensions in Inches**								
	Flange Size	A	B	C	D	E	F	Bolt Holes	Thread
V*-38B-C3BXW04-FS	2.12	2.120	1.625	0.255	N/A	0.469	N/A	4	1/4-28
V*-38B-C3BXW08-FS	2.12	2.120	1.625	0.505	N/A	0.469	N/A	4	1/4-28
V*-38B-C3BXW12-FS	2.12	2.120	1.625	0.688	0.760	0.469	0.167	4	1/4-28
V*-38B-C3BXW16-FS	2.12	2.120	1.625	0.938	1.010	0.469	0.167	4	1/4-28
V*-38B-C3CXW04-FS	2.75	2.730	2.312	0.255	N/A	0.500	N/A	6	1/4-28
V*-38B-C3CXW08-FS	2.75	2.730	2.312	0.505	N/A	0.500	N/A	6	1/4-28
V*-38B-C3CXW12-FS	2.75	2.730	2.312	0.688	0.760	0.500	0.209	6	1/4-28
V*-38B-C3CXW16-FS	2.75	2.730	2.312	0.938	1.010	0.500	0.209	6	1/4-28
V*-38B-C3CXW20-FS	2.75	2.730	2.312	1.188	1.260	0.500	0.209	6	1/4-28
V*-38B-C3CXW24-FS	2.75	2.730	2.312	1.438	1.510	0.500	0.209	6	1/4-28
V*-38B-C3CXW26-FS	2.75	2.730	2.312	1.560	1.635	0.500	0.209	6	1/4-28
V*-38B-C3CXW28-FS	2.75	2.730	2.312	1.620	1.760	0.500	0.209	6	1/4-28
V*-38B-C3DXW24-FS	3.38	3.360	2.850	1.438	1.510	0.687	0.225	8	5/16-24
V*-38B-C3DXW32-FS	3.38	3.360	2.850	1.938	2.010	0.687	0.225	8	5/16-24
V*-38B-C3EXW24-FS	4.50	4.470	3.628	1.438	1.510	0.687	0.375	8	5/16-24
V*-38B-C3EXW32-FS	4.50	4.470	3.628	1.938	2.010	0.687	0.375	8	5/16-24
V*-38B-C3EXW40-FS	4.50	4.470	3.628	2.438	2.510	0.687	0.375	8	5/16-24
V*-38B-C3FXW48-FS	4.62	4.610	4.030	2.938	3.010	0.812	0.281	10	5/16-24
V*-38B-C3GXW64-FS	6.00	5.970	5.128	3.910	4.010	0.781	0.438	16	5/16-24
V*-38B-C3HXW80-FS	6.75	6.730	5.969	4.875	5.010	0.844	0.460	18	5/16-24
V*-38B-C3JXW96-FS	8.00	7.970	7.128	5.875	6.020	0.937	0.500	20	5/16-24
V*-38B-C3KXW53-FS	10.00	9.970	9.128	7.875	8.020	0.968	0.500	24	5/16-24
V*-38B-C3LXW55-FS	12.00	12.000	11.181	9.875	10.020	1.125	0.500	32	5/16-24
V*-38B-C3MXW55-FS	13.25	13.250	12.055	9.875	10.020	1.125	0.500	30	3/8-24
V*-38B-C3NXW57-FS	14.00	14.000	12.810	11.875	12.030	1.125	0.500	30	3/8-24
V*-38B-C3QXW85-FF	16.50	16.500	15.310	13.750	14.020	1.125	0.500	36	3/8-24

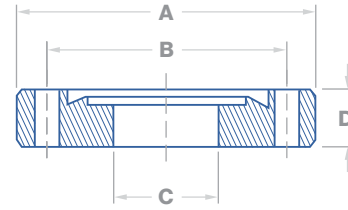
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Millimeter dimensions on the following page



CF Bored Flange

Nonrotatable, Tapped Bolt Holes



Part Number
V*-38B-C3AXW04-FS
V*-38B-C3AXW06-FS
V*-38B-C3AXW08-FS

Dimensions in Millimeters**							
Flange Size	A	B	C	D	Bolt Holes	Thread	
V*-38B-C3AXW04-FS	33.78	33.78	26.98	6.48	7.62	6	8-32
V*-38B-C3AXW06-FS	33.78	33.78	26.98	9.65	7.62	6	8-32
V*-38B-C3AXW08-FS	33.78	33.78	26.98	12.83	7.62	6	8-32

Part Number

Dimensions in Millimeters**									
Flange Size	A	B	C	D	E	F	Bolt Holes	Thread	
V*-38B-C3BXW04-FS	53.85	53.85	41.28	6.48	N/A	11.91	N/A	4	1/4-28
V*-38B-C3BXW08-FS	53.85	53.85	41.28	12.83	N/A	11.91	N/A	4	1/4-28
V*-38B-C3BXW12-FS	53.85	53.85	41.28	17.48	19.30	11.91	4.24	4	1/4-28
V*-38B-C3BXW16-FS	53.85	53.85	41.28	23.83	25.65	11.91	4.24	4	1/4-28
V*-38B-C3CXW04-FS	69.85	69.34	58.73	6.48	N/A	12.70	N/A	6	1/4-28
V*-38B-C3CXW08-FS	69.85	69.34	58.73	12.83	N/A	12.70	N/A	6	1/4-28
V*-38B-C3CXW12-FS	69.85	69.34	58.73	17.48	19.30	12.70	5.31	6	1/4-28
V*-38B-C3CXW16-FS	69.85	69.34	58.73	23.83	25.65	12.70	5.31	6	1/4-28
V*-38B-C3CXW20-FS	69.85	69.34	58.73	30.18	32.00	12.70	5.31	6	1/4-28
V*-38B-C3CXW24-FS	69.85	69.34	58.73	36.53	38.35	12.70	5.31	6	1/4-28
V*-38B-C3CXW26-FS	69.85	69.34	58.73	39.62	41.53	12.70	5.31	6	1/4-28
V*-38B-C3CXW28-FS	69.85	69.34	58.73	41.15	44.70	12.70	5.31	6	1/4-28
V*-38B-C3DXW24-FS	85.85	85.34	72.39	36.53	38.35	17.45	5.72	8	5/16-24
V*-38B-C3DXW32-FS	85.85	85.34	72.39	49.23	51.05	17.45	5.72	8	5/16-24
V*-38B-C3EXW24-FS	114.30	113.54	92.15	36.53	38.35	17.45	9.53	8	5/16-24
V*-38B-C3EXW32-FS	114.30	113.54	92.15	49.23	51.05	17.45	9.53	8	5/16-24
V*-38B-C3EXW40-FS	114.30	113.54	92.15	61.93	63.75	17.45	9.53	8	5/16-24
V*-38B-C3FXW48-FS	117.35	117.09	102.36	74.63	76.45	20.62	7.14	10	5/16-24
V*-38B-C3GXW64-FS	152.40	151.64	130.25	99.31	101.85	19.84	11.13	16	5/16-24
V*-38B-C3HXW80-FS	171.45	170.94	151.61	123.83	127.25	21.44	11.68	18	5/16-24
V*-38B-C3JXW96-FS	203.20	202.44	181.05	149.23	152.91	22.71	12.70	20	5/16-24
V*-38B-C3KXW53-FS	254.00	253.24	231.85	200.03	203.71	24.59	12.70	24	5/16-24
V*-38B-C3LXW55-FS	304.80	304.80	284.00	250.83	254.51	28.58	12.70	32	5/16-24
V*-38B-C3MXW55-FS	336.55	336.55	306.20	250.83	254.51	28.58	12.70	30	3/8-24
V*-38B-C3NXW57-FS	355.60	355.60	325.37	301.63	305.56	28.58	12.70	30	3/8-24
V*-38B-C3QXW85-FF	419.10	419.10	388.87	349.25	356.11	28.58	12.70	36	3/8-24

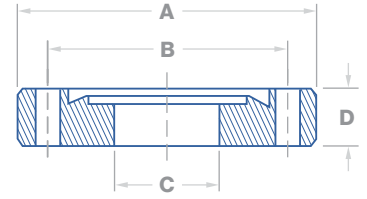
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Inch dimensions on the following page

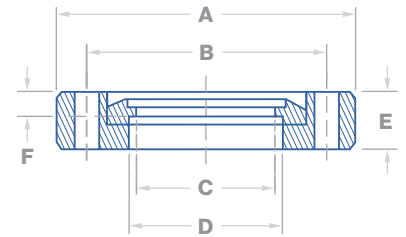


CF Bored Rotatable Flange

Clearance Bolt Holes



Part Number	Dimensions in Inches**						
	Flange Size	A	B	C	D	Bolt Holes	Diameter
V*-38B-C3AXW04-FR	1.33	1.330	1.062	0.255	0.300	6	0.172
V*-38B-C3AXW06-FR	1.33	1.330	1.062	0.380	0.300	6	0.172
V*-38B-C3AXW08-FR	1.33	1.330	1.062	0.505	0.300	6	0.172
V*-38B-C3AXW12-FR	1.33	1.330	1.062	0.625	0.300	6	0.172



Part Number	Dimensions in Inches**								
	Flange Size	A	B	C	D	E	F	Bolt Holes	Diameter
V*-38B-C3BXW04-FR	2.12	2.120	1.625	0.255	N/A	0.469	N/A	4	0.265
V*-38B-C3BXW08-FR	2.12	2.120	1.625	0.505	N/A	0.469	N/A	4	0.265
V*-38B-C3BXW12-FR	2.12	2.120	1.625	0.688	0.760	0.469	0.167	4	0.265
V*-38B-C3BXW16-FR	2.12	2.120	1.625	0.938	1.010	0.469	0.167	4	0.265
V*-38B-C3CXW04-FR	2.75	2.730	2.312	0.255	N/A	0.500	N/A	6	0.265
V*-38B-C3CXW08-FR	2.75	2.730	2.312	0.505	N/A	0.500	N/A	6	0.265
V*-38B-C3CXW12-FR	2.75	2.730	2.312	0.688	0.760	0.500	0.209	6	0.265
V*-38B-C3CXW16-FR	2.75	2.730	2.312	0.938	1.010	0.500	0.209	6	0.265
V*-38B-C3CXW20-FR	2.75	2.730	2.312	1.188	1.260	0.500	0.209	6	0.265
V*-38B-C3CXW24-FR	2.75	2.730	2.312	1.438	1.510	0.500	0.209	6	0.265
V*-38B-C3DXW24-FR	3.38	3.360	2.850	1.438	1.510	0.687	0.225	8	0.332
V*-38B-C3DXW32-FR	3.38	3.360	2.850	1.938	2.010	0.687	0.225	8	0.332
V*-38B-C3EXW24-FR	4.50	4.470	3.628	1.438	1.510	0.750	0.375	8	0.332
V*-38B-C3EXW32-FR	4.50	4.470	3.628	1.938	2.010	0.750	0.375	8	0.332
V*-38B-C3EXW40-FR	4.50	4.470	3.628	2.438	2.510	0.750	0.375	8	0.332
V*-38B-C3FXW48-FR	4.62	4.610	4.030	2.938	3.010	0.812	0.281	10	0.332
V*-38B-C3GXW64-FR	6.00	5.970	5.128	3.910	4.010	0.844	0.438	16	0.332
V*-38B-C3HXW80-FR	6.75	6.730	5.969	4.875	5.010	0.844	0.460	18	0.332
V*-38B-C3JXW96-FR	8.00	7.970	7.128	5.875	6.020	0.937	0.500	20	0.332
V*-38B-C3KXW53-FR	10.00	9.970	9.128	7.875	8.020	0.968	0.500	24	0.332
V*-38B-C3LXW55-FR	12.00	12.000	11.181	9.875	10.020	1.125	0.500	32	0.332
V*-38B-C3MXW55-FR	13.25	13.250	12.055	9.875	10.020	1.125	0.500	30	0.390
V*-38B-C3NXW57-FR	14.00	14.000	12.810	11.875	12.030	1.125	0.500	30	0.390
V*-38B-C3QXW85-FR	16.50	16.500	15.310	13.750	14.020	1.125	0.500	36	0.390

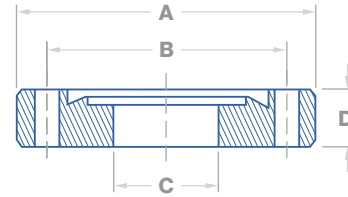
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Millimeter dimensions on the following page



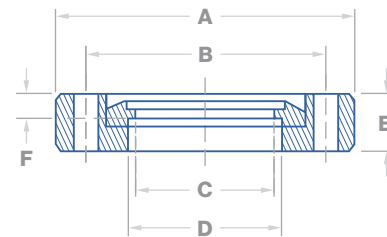
CF Bored Rotatable Flange

Clearance Bolt Holes



Part Number
V*-38B-C3AXW04-FR
V*-38B-C3AXW06-FR
V*-38B-C3AXW08-FR
V*-38B-C3AXW12-FR

Dimensions in Millimeters**							
Flange Size	A	B	C	D	Bolt Holes	Diameter	
V*-38B-C3AXW04-FR	33.78	33.78	26.98	6.48	7.62	6	4.37
V*-38B-C3AXW06-FR	33.78	33.78	26.98	9.65	7.62	6	4.37
V*-38B-C3AXW08-FR	33.78	33.78	26.98	12.83	7.62	6	4.37
V*-38B-C3AXW12-FR	33.78	33.78	26.98	15.88	7.62	6	4.37



Part Number
V*-38B-C3BXW04-FR
V*-38B-C3BXW08-FR
V*-38B-C3BXW12-FR
V*-38B-C3BXW16-FR
V*-38B-C3CXW04-FR
V*-38B-C3CXW08-FR
V*-38B-C3CXW12-FR
V*-38B-C3CXW16-FR
V*-38B-C3CXW20-FR
V*-38B-C3CXW24-FR
V*-38B-C3DXW24-FR
V*-38B-C3DXW32-FR
V*-38B-C3EXW24-FR
V*-38B-C3EXW32-FR
V*-38B-C3EXW40-FR
V*-38B-C3FXW48-FR
V*-38B-C3GXW64-FR
V*-38B-C3HXW80-FR
V*-38B-C3JXW96-FR
V*-38B-C3KXW53-FR
V*-38B-C3LXW55-FR
V*-38B-C3MXW55-FR
V*-38B-C3NXW57-FR
V*-38B-C3QXW85-FR

Dimensions in Millimeters**									
Flange Size	A	B	C	D	E	F	Bolt Holes	Diameter	
V*-38B-C3BXW04-FR	53.85	53.85	41.28	6.48	N/A	11.91	N/A	4	6.73
V*-38B-C3BXW08-FR	53.85	53.85	41.28	12.83	N/A	11.91	N/A	4	6.73
V*-38B-C3BXW12-FR	53.85	53.85	41.28	17.48	19.30	11.91	4.24	4	6.73
V*-38B-C3BXW16-FR	53.85	53.85	41.28	23.83	25.65	11.91	4.24	4	6.73
V*-38B-C3CXW04-FR	69.85	69.34	58.73	6.48	N/A	12.70	N/A	6	6.73
V*-38B-C3CXW08-FR	69.85	69.34	58.73	12.83	N/A	12.70	N/A	6	6.73
V*-38B-C3CXW12-FR	69.85	69.34	58.73	30.18	19.30	12.70	5.31	6	6.73
V*-38B-C3CXW16-FR	69.85	69.34	58.73	23.83	25.65	12.70	5.31	6	6.73
V*-38B-C3CXW20-FR	69.85	69.34	58.73	30.18	32.00	12.70	5.31	6	6.73
V*-38B-C3CXW24-FR	69.85	69.34	58.73	36.53	38.35	12.70	5.31	6	6.73
V*-38B-C3DXW24-FR	85.85	85.34	72.39	36.53	38.35	17.45	5.72	8	8.43
V*-38B-C3DXW32-FR	85.85	85.34	72.39	49.23	51.05	17.45	5.72	8	8.43
V*-38B-C3EXW24-FR	114.30	113.54	92.15	36.53	38.35	19.05	9.53	8	8.43
V*-38B-C3EXW32-FR	114.30	113.54	92.15	49.23	51.05	19.05	9.53	8	8.43
V*-38B-C3EXW40-FR	114.30	113.54	92.15	61.93	63.75	19.05	9.53	8	8.43
V*-38B-C3FXW48-FR	117.35	117.09	102.36	74.63	76.45	20.62	7.14	10	8.43
V*-38B-C3GXW64-FR	152.40	151.64	130.25	99.31	101.85	21.44	11.13	16	8.43
V*-38B-C3HXW80-FR	171.45	170.94	151.61	123.83	127.25	21.44	11.68	18	8.43
V*-38B-C3JXW96-FR	203.20	202.44	181.05	149.23	152.91	22.71	12.70	20	8.43
V*-38B-C3KXW53-FR	254.00	253.24	231.85	200.03	203.71	24.59	12.70	24	8.43
V*-38B-C3LXW55-FR	304.80	304.80	11.181	250.83	254.51	28.58	12.70	32	8.43
V*-38B-C3MXW55-FR	336.55	336.55	306.20	250.83	254.51	28.58	12.70	30	9.91
V*-38B-C3NXW57-FR	355.60	355.60	325.37	301.63	305.56	28.58	12.70	30	9.91
V*-38B-C3QXW85-FR	419.10	419.10	388.87	349.25	356.11	28.58	12.70	36	9.91

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Inch dimensions on the following page

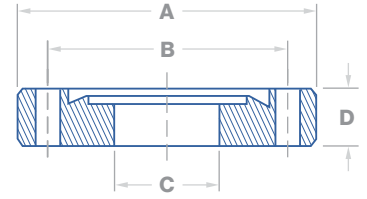


Valex
Vacuum
Components

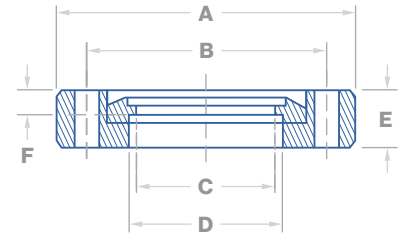
CF
Flanges

CF Bored Rotatable Flange

Tapped Bolt Holes



Part Number	Dimensions in Inches**						
	Flange Size	A	B	C	D	Bolt Holes	Thread
V*-38B-C3AXW04-FT	1.33	1.330	1.062	0.255	0.300	6	8-32
V*-38B-C3AXW06-FT	1.33	1.330	1.062	0.380	0.300	6	8-32
V*-38B-C3AXW08-FT	1.33	1.330	1.062	0.505	0.300	6	8-32
V*-38B-C3AXW12-FT	1.33	1.330	1.062	0.625	0.300	6	8-32



Part Number	Dimensions in Inches**								
	Flange Size	A	B	C	D	E	F	Bolt Holes	Thread
V*-38B-C3BXW04-FT	2.12	2.120	1.625	0.255	N/A	0.469	N/A	4	1/4-28
V*-38B-C3BXW08-FT	2.12	2.120	1.625	0.505	N/A	0.469	N/A	4	1/4-28
V*-38B-C3BXW12-FT	2.12	2.120	1.625	0.688	0.760	0.469	0.167	4	1/4-28
V*-38B-C3BXW16-FT	2.12	2.120	1.625	0.938	1.010	0.469	0.167	4	1/4-28
V*-38B-C3CXW04-FT	2.75	2.730	2.312	0.255	N/A	0.500	N/A	6	1/4-28
V*-38B-C3CXW08-FT	2.75	2.730	2.312	0.505	N/A	0.500	N/A	6	1/4-28
V*-38B-C3CXW12-FT	2.75	2.730	2.312	0.688	0.760	0.500	0.209	6	1/4-28
V*-38B-C3CXW16-FT	2.75	2.730	2.312	0.938	1.010	0.500	0.209	6	1/4-28
V*-38B-C3CXW20-FT	2.75	2.730	2.312	1.188	1.260	0.500	0.209	6	1/4-28
V*-38B-C3CXW24-FT	2.75	2.730	2.312	1.438	1.510	0.500	0.209	6	1/4-28
V*-38B-C3DXW24-FT	3.38	3.360	2.850	1.438	1.510	0.687	0.225	8	5/16-24
V*-38B-C3DXW32-FT	3.38	3.360	2.850	1.938	2.010	0.687	0.225	8	5/16-24
V*-38B-C3EXW24-FT	4.50	4.470	3.628	1.438	1.510	0.750	0.375	8	5/16-24
V*-38B-C3EXW32-FT	4.50	4.470	3.628	1.938	2.010	0.750	0.375	8	5/16-24
V*-38B-C3EXW40-FT	4.50	4.470	3.628	2.438	2.510	0.750	0.375	8	5/16-24
V*-38B-C3FXW48-FT	4.62	4.610	4.030	2.938	3.010	0.812	0.281	10	5/16-24
V*-38B-C3GXW64-FT	6.00	5.970	5.128	3.910	4.010	0.844	0.438	16	5/16-24
V*-38B-C3HXW80-FT	6.75	6.730	5.969	4.875	5.010	0.844	0.460	18	5/16-24
V*-38B-C3JXW96-FT	8.00	7.970	7.128	5.875	6.020	0.937	0.500	20	5/16-24
V*-38B-C3KXW53-FT	10.00	9.970	9.128	7.875	8.020	0.968	0.500	24	5/16-24
V*-38B-C3LXW55-FT	12.00	12.000	11.181	9.875	10.020	1.125	0.500	32	5/16-24
V*-38B-C3MXW55-FT	13.25	13.250	12.055	9.875	10.020	1.125	0.500	30	3/8-24
V*-38B-C3NXW57-FT	14.00	14.000	12.810	11.875	12.030	1.125	0.500	30	3/8-24
V*-38B-C3QXW85-FT	16.50	16.500	15.310	13.750	14.020	1.125	0.500	36	3/8-24

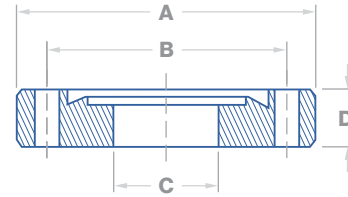
* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Millimeter dimensions on the following page



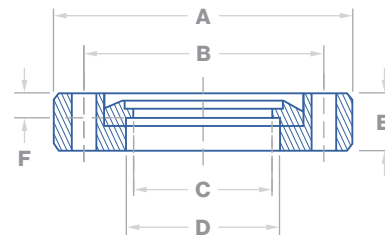
CF Bored Rotatable Flange

Tapped Bolt Holes



Part Number
V*-38B-C3AXW04-FT
V*-38B-C3AXW06-FT
V*-38B-C3AXW08-FT
V*-38B-C3AXW12-FT

Dimensions in Millimeters**							
Flange Size	A	B	C	D	Bolt Holes	Thread	
V*-38B-C3AXW04-FT	33.78	33.78	26.98	6.48	7.62	6	8-32
V*-38B-C3AXW06-FT	33.78	33.78	26.98	9.65	7.62	6	8-32
V*-38B-C3AXW08-FT	33.78	33.78	26.98	12.83	7.62	6	8-32
V*-38B-C3AXW12-FT	33.78	33.78	26.98	15.88	7.62	6	8-32



Part Number
V*-38B-C3BXW04-FT
V*-38B-C3BXW08-FT
V*-38B-C3BXW12-FT
V*-38B-C3BXW16-FT
V*-38B-C3CXW04-FT
V*-38B-C3CXW08-FT
V*-38B-C3CXW12-FT
V*-38B-C3CXW16-FT
V*-38B-C3CXW20-FT
V*-38B-C3CXW24-FT
V*-38B-C3DXW24-FT
V*-38B-C3DXW32-FT
V*-38B-C3EXW24-FT
V*-38B-C3EXW32-FT
V*-38B-C3EXW40-FT
V*-38B-C3FXW48-FT
V*-38B-C3GXW64-FT
V*-38B-C3HXW80-FT
V*-38B-C3JXW96-FT
V*-38B-C3KXW53-FT
V*-38B-C3LXW55-FT
V*-38B-C3MXW55-FT
V*-38B-C3NXW57-FT
V*-38B-C3QXW85-FT

Dimensions in Millimeters**									
Flange Size	A	B	C	D	E	F	Bolt Holes	Thread	
V*-38B-C3BXW04-FT	53.85	53.85	41.28	6.48	N/A	11.91	N/A	4	1/4-28
V*-38B-C3BXW08-FT	53.85	53.85	41.28	12.83	N/A	11.91	N/A	4	1/4-28
V*-38B-C3BXW12-FT	53.85	53.85	41.28	17.48	19.30	11.91	4.24	4	1/4-28
V*-38B-C3BXW16-FT	53.85	53.85	41.28	23.83	25.65	11.91	4.24	4	1/4-28
V*-38B-C3CXW04-FT	69.85	69.34	58.73	6.48	N/A	12.70	N/A	6	1/4-28
V*-38B-C3CXW08-FT	69.85	69.34	58.73	12.83	N/A	12.70	N/A	6	1/4-28
V*-38B-C3CXW12-FT	69.85	69.34	58.73	30.18	19.30	12.70	5.31	6	1/4-28
V*-38B-C3CXW16-FT	69.85	69.34	58.73	23.83	25.65	12.70	5.31	6	1/4-28
V*-38B-C3CXW20-FT	69.85	69.34	58.73	30.18	32.00	12.70	5.31	6	1/4-28
V*-38B-C3CXW24-FT	69.85	69.34	58.73	36.53	38.35	12.70	5.31	6	1/4-28
V*-38B-C3DXW24-FT	85.85	85.34	72.39	36.53	38.35	17.45	5.72	8	5/16-24
V*-38B-C3DXW32-FT	85.85	85.34	72.39	49.23	51.05	17.45	5.72	8	5/16-24
V*-38B-C3EXW24-FT	114.30	113.54	92.15	36.53	38.35	19.05	9.53	8	5/16-24
V*-38B-C3EXW32-FT	114.30	113.54	92.15	49.23	51.05	19.05	9.53	8	5/16-24
V*-38B-C3EXW40-FT	114.30	113.54	92.15	61.93	63.75	19.05	9.53	8	5/16-24
V*-38B-C3FXW48-FT	117.35	117.09	102.36	74.63	76.45	20.62	7.14	10	5/16-24
V*-38B-C3GXW64-FT	152.40	151.64	130.25	99.31	101.85	21.44	11.13	16	5/16-24
V*-38B-C3HXW80-FT	171.45	170.94	151.61	123.83	127.25	21.44	11.68	18	5/16-24
V*-38B-C3JXW96-FT	203.20	202.44	181.05	149.23	152.91	22.71	12.70	20	5/16-24
V*-38B-C3KXW53-FT	254.00	253.24	231.85	200.03	203.71	24.59	12.70	24	5/16-24
V*-38B-C3LXW55-FT	304.80	304.80	11.181	250.83	254.51	28.58	12.70	32	5/16-24
V*-38B-C3MXW55-FT	336.55	336.55	306.20	250.83	254.51	28.58	12.70	30	3/8-24
V*-38B-C3NXW57-FT	355.60	355.60	325.37	301.63	305.56	28.58	12.70	30	3/8-24
V*-38B-C3QXW85-FT	419.10	419.10	388.87	349.25	356.11	28.58	12.70	36	3/8-24

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Inch dimensions on the following page



Valex

Vacuum
Components

CF Flanges

CF Gasket Hardware

Copper or Silver Plated Copper

Part Number		Description		
Copper Gaskets	Silver Plated Copper Gaskets	Flange Size		Quantity
		inch	mm	
V0-72G-C3A-G1	V0-72G-C3A-G2	1.33	33.78	10
V0-72G-C3B-G1		2.12	53.85	10
V0-72G-C3C-G1	V0-72G-C3C-G2	2.75	69.85	10
V0-72G-C3D-G1	V0-72G-C3D-G2	3.38	85.85	10
V0-72G-C3E-G1	V0-72G-C3E-G2	4.50	114.30	10
V0-72G-C3F-G1		4.62	117.35	10
V0-72G-C3G-G1	V0-72G-C3G-G2	6.00	152.40	10
V0-72G-C3H-G1		6.75	171.45	10
V0-72G-C3J-G1	V0-72G-C3J-G2	8.00	203.20	10
V0-72G-C3K-G1	V0-72G-C3K-G2	10.00	254.00	10
V0-72G-C3L-G1		12.00	304.80	1
V0-72G-C3M-G1		13.25	336.55	1
V0-72G-C3N-G1		14.00	355.60	1
V0-72G-C3Q-G1		16.50	419.10	1

CF Gasket Hardware

PTFE

Part Number		Description		
Part Number		Flange Size		Quantity
		inch	mm	
V0-72G-C3A-G3		1.33	33.78	5
V0-72G-C3B-G3		2.12	53.85	5
V0-72G-C3C-G3		2.75	69.85	5
V0-72G-C3D-G3		3.38	85.85	1
V0-72G-C3E-G3		4.50	114.30	1
V0-72G-C3F-G3		4.62	117.35	1
V0-72G-C3G-G3		6.00	152.40	1
V0-72G-C3H-G3		6.75	171.45	1
V0-72G-C3J-G3		8.00	203.20	1
V0-72G-C3K-G3		10.00	254.00	1
V0-72G-C3M-G3		13.25	336.55	1
V0-72G-C3N-G3		14.00	355.60	1
V0-72G-C3Q-G3		16.50	419.10	1



CF Bolt & Washer Hardware

Part Number		Description			
Stainless Steel	Silver Plated	Flange Size		Quantity	Bolt Size
		inch	mm		
V0-70-C3A-XSA	V0-70-C3A-XUA	1.33	33.78	25	8-32 x .56"
V0-70-C3B-XSA		2.12	53.85	25	1/4"-28 x 7/8"
	V0-70-C3C-XUA	2.75	69.85	25	1/4"-28 x 1"
V0-70-C3D-XSA		3.38	85.85	25	5/16"-24 x 1-1/4"
V0-70-C3E-XSA		4.50	114.30	25	5/16"-24 x 1-1/4"
V0-70-C3F-XSA		4.62	117.35	25	5/16"-24 x 1-1/4"
V0-70-C3G-XSA		6.00	152.40	25	5/16"-24 x 1-1/4"
V0-70-C3H-XSA		6.75	171.45	25	5/16"-24 x 1-1/2"
V0-70-C3J-XSA		8.00	203.20	25	5/16"-24 x 1-3/4"
V0-70-C3K-XSA		10.00	254.00	25	5/16"-24 x 1-3/4"
V0-70-C3L-XSA		12.00	304.80	32	5/16"-24 x 1-3/4"
V0-70-C3M-XSA		13.25	336.55	30	3/8"-24 x 2"
V0-70-C3N-XSA		14.00	355.60	30	3/8"-24 x 2"
V0-70-C3Q-XSA		16.50	419.10	36	3/8"-24 x 2"

CF 12 Point Bolt & Washer Hardware

Part Number		Description			
Stainless Steel	Silver Plated SS	Flange Size		Quantity	Bolt Size
		inch	mm		
V0-70C-C3B-XTA		2.12	53.85	25	1/4"-28 x 7/8"
V0-70C-C3C-XTA		2.75	69.85	25	1/4"-28 x 1"
	V0-70C-C3C-XUB	2.75	69.85	25	1/4"-28 x 7/8"
V0-70C-C3D-XTA	V0-70C-C3D-XUA	3.38	85.85	25	5/16"-24 x 1-1/4"
V0-70C-C3E-XTA	V0-70C-C3E-XUA	4.50	114.3	25	5/16"-24 x 1-1/4"
V0-70C-C3F-XTA		4.62	117.35	25	5/16"-24 x 1-1/4"
V0-70C-C3G-XTA	V0-70C-C3G-XUA	6.00	152.40	25	5/16"-24 x 1-1/4"
V0-70C-C3H-XTA		6.75	171.45	25	5/16"-24 x 1-3/4"
V0-70C-C3J-XTA	V0-70C-C3J-XUA	8.00	203.20	25	5/16"-24 x 1-3/4"
V0-70C-C3K-XTA	V0-70C-C3K-XUA	10.00	254.00	25	5/16"-24 x 1-3/4"



CF Bolt & Washer Hardware (Metric)

Part Number	Description			
	Flange Size		Quantity	Bolt Size
	inch	mm		
Stainless Steel				
V0-70-C3C-XMA	2.75	69.85	25	M6 x 1" x 25mm
V0-70-C3E-XMA	4.50	114.30	25	M8 x 1-1/4" x 35mm
V0-70-C3G-XMA	6.00	152.40	25	M8 x 1-1/4" x 35mm
V0-70-C3J-XMA	8.00	203.20	25	M8 x 1-1/4" x 45mm
V0-70-C3K-XMA	10.00	254.00	25	M8 x 1-1/4" x 45mm

CF Bolt, Nut & Washer Hardware

Part Number		Description			
Stainless Steel	Silver Plated	Flange Size		Quantity	Bolt Size
		inch	mm		
V0-70B-C3A-XSA	V0-70B-C3A-XUA	1.33	33.78	25	8-32 x .75"
V0-70B-C3B-XSA		2.12	53.85	25	1/4"-28 x 1-1/4"
V0-70B-C3C-XSA		2.75	69.85	25	1/4"-28 x 1-1/4"
V0-70B-C3D-XSA		3.38	85.85	25	5/16"-24 x 1-3/4"
V0-70B-C3E-XSA		4.50	114.30	25	5/16"-24 x 2"
V0-70B-C3F-XSA		4.62	117.35	25	5/16"-24 x 2-1/4"
V0-70B-C3G-XSA		6.00	152.40	25	5/16"-24 x 2-1/4"
V0-70B-C3H-XSA		6.75	171.45	25	5/16"-24 x 2-1/4"
V0-70B-C3J-XSA		8.00	203.20	25	5/16"-24 x 2-1/4"
V0-70B-C3K-XSA		10.00	254.00	25	5/16"-24 x 2-1/2"
V0-70B-C3L-XSA		12.00	304.80	32	5/16"-24 x 3"
V0-70B-C3M-XSA		13.25	336.55	30	3/8"-24 x 3"
V0-70B-C3N-XSA		14.00	355.60	30	3/8"-24 x 3"
V0-70B-C3Q-XSA		16.50	419.10	36	3/8"-24 x 3"



CF 12 Point Bolt, Nut & Washer Hardware

Part Number		Description			
Stainless Steel	Silver Plated Stainless Steel	Flange Size		Quantity	Bolt Size
		inch	mm		
V0-70D-C3B-XSA		2.12	53.85	25	1/4"-28 x 1-1/4"
V0-70D-C3C-XSA	V0-70D-C3C-XUA	2.75	69.85	25	1/4"-28 x 1-1/4"
V0-70D-C3D-XSA	V0-70D-C3D-XUA	3.38	85.85	25	5/16"-24 x 1-3/4"
V0-70D-C3E-XSA	V0-70D-C3E-XUA	4.50	114.30	25	5/16"-24 x 2"
V0-70D-C3F-XSA		4.62	117.35	25	5/16"-24 x 2-1/4"
V0-70D-C3G-XSA	V0-70D-C3G-XUA	6.00	152.40	25	5/16"-24 x 2-1/4"
V0-70D-C3H-XSA		6.75	171.45	25	5/16"-24 x 2-1/4"
V0-70D-C3J-XSA	V0-70D-C3J-XUA	8.00	203.20	25	5/16"-24 x 2-1/4"
V0-70D-C3K-XSA	V0-70D-C3K-XUA	10.00	254.00	25	5/16"-24 x 2-1/2"



CF Plate Nut Hardware

Part Number	Description			
	Flange Size		Plate Nuts	
	inch	mm	Quantity	Size
V0-70P-C3A-PXX	1.33"	33.78	24	8-32
V0-70P-C3C-PXX	2.75"	69.85	24	1/4"-28
V0-70P-C3D-PXX	3.38"	85.85	24	5/16"-24
V0-70P-C3E-PXX	4.50"	114.30	24	5/16"-24
V0-70P-C3F-PXX	4.62"	117.35	24	5/18"-24
V0-70P-C3G-PXX	6.00"	152.40	24	5/16"-24
V0-70P-C3J-PXX	8.00"	203.20	24	5/16"-24
V0-70P-C3K-PXX	10.00"	254.00	24	5/16"-24

CF Plate Nut & Bolts Hardware Kit

Part Number	Description				
	Flange Size		Plate Nuts	Bolts	
	inch	mm	Quantity	Quantity	Size
V0-70Q-C3A-PTA	1.33	33.78	12	24	8-32 x 3/4"



CF Plate Nut Hardware Kit

Plate Nut Kits with Bolts & Washers

Part Number	Description				
	Flange Size		Plate Nuts	Bolts	
	inch	mm	Quantity	Quantity	Size
V0-70R-C3C-PTA	2.75	69.85	12	24	1/4"-28 x 1-1/4"
V0-70R-C3D-PTA	3.38	85.85	16	32	5/16"-24 x 1-3/4"
V0-70R-C3E-PTA	4.50	114.30	16	32	5/16"-24 x 2"
V0-70R-C3F-PTA	4.62	117.35	20	40	5/16"-24 x 2-1/4"
V0-70R-C3G-PTA	6.00	152.40	16	32	5/16"-24 x 2-1/4"
V0-70R-C3J-PTA	8.00	203.20	20	40	5/16"-24 x 2-1/4"
V0-70R-C3K-PTA	10.00	254.00	24	48	5/16"-24 x 2-1/4"

CF 12 Point Plate Nut Hardware Kit

Plate Nut Kits with Bolts & Washers

Part Number	Description				
	Flange Size		Plate Nuts	Bolts	
	inch	mm	Quantity	Quantity	Size
V0-70T-C3C-PSA	2.75"	69.85	12	24	1/4"-28 x 1-1/4"
V0-70T-C3D-PSA	3.38"	85.85	16	32	5/16"-24 x 1-3/4"
V0-70T-C3E-PSA	4.50"	114.30	16	32	5/16"-24 x 2"
V0-70T-C3F-PSA	4.62"	117.35	20	40	5/16"-24 x 2-1/4"
V0-70T-C3G-PSA	6.00"	152.40	16	32	5/16"-24 x 2-1/4"
V0-70T-C3J-PSA	8.00"	203.20	20	40	5/16"-24 x 2-1/4"
V0-70T-C3K-PSA	10.00"	254.00	24	48	5/16"-24 x 2-1/4"

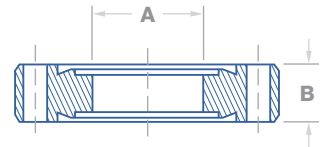


Valex

Vacuum
Components

CF Double-Sided Flange

Nonrotatable, with Clearance Bolt Holes



Part Number	Dimensions in Inches & Millimeters						
	Nominal O.D.		Made From Flange	A		B	
	inch	mm		inch	mm	inch	mm
V*-38M-C3A-FF	1.33	33.78	V*-38-C3A-FF	N/A	N/A	0.300	7.62
V*-38M-C3AXW04-FF	1.33	33.78	V*-38-C3A-FF	0.255	6.48	0.300	7.62
V*-38M-C3AXW06-FF	1.33	33.78	V*-38-C3A-FF	0.380	9.65	0.300	7.62
V*-38M-C3AXW08-FF	1.33	33.78	V*-38-C3A-FF	0.505	12.83	0.300	7.62
V*-38M-C3AXW12-FF	1.33	33.78	V*-38-C3A-FF	0.630	16.00	0.300	7.62
V*-38M-C3B-FF	2.12	53.85	V*-38-C3B-FF	N/A	N/A	0.470	11.94
V*-38M-C3BXW16-FF	2.12	53.85	V*-38-C3B-FF	1.010	25.65	0.470	11.94
V*-38M-C3C-FF	2.75	69.85	V*-38-C3C-FF	N/A	N/A	0.500	12.70
V*-38M-C3CXW04-FF	2.75	69.85	V*-38-C3C-FF	0.255	6.48	0.500	12.70
V*-38M-C3CXW08-FF	2.75	69.85	V*-38-C3C-FF	0.505	12.83	0.500	12.70
V*-38M-C3CXW12-FF	2.75	69.85	V*-38-C3C-FF	0.760	19.30	0.500	12.70
V*-38M-C3CXW16-FF	2.75	69.85	V*-38-C3C-FF	1.010	25.65	0.500	12.70
V*-38M-C3CXW20-FF	2.75	69.85	V*-38-C3C-FF	1.260	32.00	0.500	12.70
V*-38M-C3CXW24-FF	2.75	69.85	V*-38-C3C-FF	1.510	38.35	0.500	12.70
V*-38M-C3D-FF	3.38	85.85	V*-38-C3D-FF	N/A	N/A	0.687	17.45
V*-38M-C3DXW24-FF	3.38	85.85	V*-38-C3D-FF	1.510	38.35	0.687	17.45
V*-38M-C3DXW32-FF	3.38	85.85	V*-38-C3D-FF	2.010	51.05	0.687	17.45
V*-38M-C3E-FF	4.50	114.30	V*-38-C3E-FF	N/A	N/A	0.687	17.45
V*-38M-C3EXW24-FF	4.50	114.30	V*-38-C3E-FF	1.510	38.35	0.687	17.45
V*-38M-C3EXW32-FF	4.50	114.30	V*-38-C3E-FF	2.010	51.05	0.687	17.45
V*-38M-C3EXW40-FF	4.50	114.30	V*-38-C3E-FF	2.510	63.75	0.687	17.45
V*-38M-C3F-FF	4.62	117.35	V*-38-C3F-FF	N/A	N/A	0.812	20.62
V*-38M-C3FXW48-FF	4.62	117.35	V*-38-C3F-FF	3.010	76.45	0.812	20.62
V*-38M-C3G-FF	6.00	152.40	V*-38-C3G-FF	N/A	N/A	0.781	19.84
V*-38M-C3GXW64-FF	6.00	152.40	V*-38-C3G-FF	4.010	101.85	0.781	19.84
V*-38M-C3H-FF	6.75	171.45	V*-38-C3H-FF	N/A	N/A	0.844	21.44
V*-38M-C3HXW80-FF	6.75	171.45	V*-38-C3H-FF	5.010	127.25	0.844	21.44
V*-38M-C3J-FF	8.00	203.20	V*-38-C3J-FF	N/A	N/A	0.875	22.23
V*-38M-C3JXW96-FF	8.00	203.20	V*-38-C3J-FF	6.020	152.91	0.875	22.23
V*-38M-C3K-FF	10.00	254.00	V*-38-C3K-FF	N/A	N/A	0.968	24.59
V*-38M-C3KXW53-FF	10.00	254.00	V*-38-C3K-FF	8.020	203.71	0.968	24.59
V*-38M-C3M-FF	13.25	336.55	V*-38-C3M-FF	N/A	N/A	1.125	28.58
V*-38M-C3MXW55-FF	13.25	336.55	V*-38-C3M-FF	10.020	254.51	1.125	28.58
V*-38M-C3N-FF	14.00	355.60	V*-38-C3N-FF	N/A	N/A	1.125	28.58
V*-38M-C3NXW57-FF	14.00	355.60	V*-38-C3N-FF	12.020	305.31	1.125	28.58

* Standard Finish: VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



CF Gasket

Double-Sided Hardware

Copper or Silver Plated Copper

Part Number		Description		
Copper	Silver Plated Copper	Nominal O.D.		Quantity
		inch	mm	
V0-72G-C3A-G1	V0-72G-C3A-G2	1.33	33.78	10
V0-72G-C3B-G1	V0-72G-C3B-G2	2.12	53.85	10
V0-72G-C3C-G1	V0-72G-C3C-G2	2.75	69.85	10
V0-72G-C3D-G1	V0-72G-C3D-G2	3.38	85.85	10
V0-72G-C3E-G1	V0-72G-C3E-G2	4.50	114.30	10
V0-72G-C3F-G1	V0-72G-C3F-G2	4.62	117.35	10
V0-72G-C3G-G1	V0-72G-C3G-G2	6.00	152.40	10
V0-72G-C3H-G1	V0-72G-C3H-G2	6.75	171.45	10
V0-72G-C3J-G1	V0-72G-C3J-G2	8.00	203.20	10
V0-72G-C3K-G1	V0-72G-C3K-G2	10.00	254.00	10
V0-72G-C3M-G1	V0-72G-C3M-G2	13.25	336.55	1

CF Gasket

Double-Sided Hardware

PTFE

Part Number	Description		
	Nominal O.D.		Quantity
	inch	mm	
V0-72G-C3A-G3	1.33	33.78	5
V0-72G-C3B-G3	2.12	52.85	5
V0-72G-C3C-G3	2.75	69.85	5
V0-72G-C3D-G3	3.38	85.85	1
V0-72G-C3E-G3	4.50	114.30	1
V0-72G-C3F-G3	4.62	117.35	1
V0-72G-C3G-G3	6.00	152.40	1
V0-72G-C3H-G3	6.75	171.45	1
V0-72G-C3J-G3	8.00	203.20	1
V0-72G-C3K-G3	10.00	254.00	1
V0-72G-C3M-G3	13.25	336.55	1



CF Bolt, Nut & Washer Kit

Double-Sided Hardware

Stainless Steel or Silver Plated Stainless Steel

Part Number	Description			
	Nominal O.D.		Quantity	Bolt Size
	inch	mm		
V0-70B-C3A-X*A	1.33	33.78	5	8-32 x 1-1/4"
V0-70B-C3B-X*A	2.12	53.85	25	1/4"-28 x 1-3/4"
V0-70B-C3C-X*A	2.75	69.85	25	1/4"-28 x 1-3/4"
V0-70B-C3C-X*B	2.75	69.85	25	1/4"-28 x 2"
V0-70B-C3D-X*A	3.38	85.85	25	5/16"-24 x 2-1/2"
V0-70B-C3E-X*A	4.50	114.30	25	5/16"-24 x 32-3/4"
V0-70B-C3F-X*A	4.62	117.35	25	5/16"-24 x 3"
V0-70B-C3G-X*A	6.00	152.40	25	5/16"-24 x 3"
V0-70B-C3H-X*A	6.75	171.45	25	5/16"-24 x 3"
V0-70B-C3J-X*A	8.00	203.20	25	5/16"-24 x 3"
V0-70B-C3K-X*A	10.00	254.00	25	5/16"-24 x 3-1/2"

* Bolt Material / Thread: X = No Bolts 7 Washers, S = Inch, T = Inch 10-8SS (Bolts), U = Inch 10-8SS Silverplated (Bolts)

CF Plate Nut

Double-Sided Hardware Kit

Part Number	Description				
	Nominal O.D.		Plate Nuts		Bolts
	inch	mm	Quantity	Size	Quantity
V0-70Q-C3C-P*A	2.75"	69.85	6	1/4"-28 x 2"	12

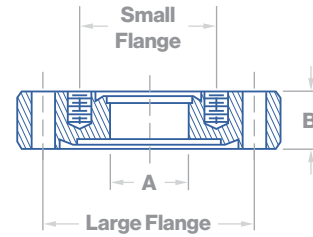
* Bolt Material / Thread: X = No Bolts 7 Washers, S = Inch, T = Inch 10-8SS (Bolts), U = Inch 10-8SS Silverplated (Bolts)



CF Zero Length Reducer Flange

Large Flange: Nonrotatable, Tapped Bolt Holes

Small Flange: Nonrotatable, Tapped Bolt Holes



Part Number	Dimensions in Inches					
	Large Flange Part Number	Small Flange Part Number	Lg. Flange Size	Sm. Flange Size	A	B
V*-38Z-C3BXC3A-FS	V*-38B-C3B-FS	V*-38B-C3A-FS	2.12"	1.33"	0.625	0.470
V*-38Z-C3CXC3B-FS	V*-38B-C3C-FS	V*-38B-C3B-FS	2.75"	2.12"	1.000	0.500
V*-38Z-C3DXC3B-FS	V*-38B-C3D-FS	V*-38B-C3B-FS	3.38"	2.12"	1.000	0.687
V*-38Z-C3DXC3C-FS	V*-38B-C3D-FS	V*-38B-C3C-FS	3.38"	2.75"	1.500	0.687
V*-38Z-C3EXC3D-FS	V*-38B-C3E-FS	V*-38B-C3D-FS	4.50"	3.38"	2.000	0.687
V*-38Z-C3GXC3F-FS	V*-38B-C3G-FS	V*-38B-C3F-FS	6.00"	4.62"	3.000	0.781
V*-38Z-C3HXC3G-FS	V*-38B-C3H-FS	V*-38B-C3G-FS	6.75"	6.00"	4.000	0.844
V*-38Z-C3JXC3H-FS	V*-38B-C3J-FS	V*-38B-C3H-FS	8.00"	6.75"	5.000	0.875

Part Number	Dimensions in Millimeters					
	Large Flange Part Number	Small Flange Part Number	Lg. Flange Size	Sm. Flange Size	A	B
V*-38Z-C3BXC3A-FS	V*-38B-C3B-FS	V*-38B-C3A-FS	53.85	33.78	15.88	11.94
V*-38Z-C3CXC3B-FS	V*-38B-C3C-FS	V*-38B-C3B-FS	69.85	53.85	25.40	12.70
V*-38Z-C3DXC3B-FS	V*-38B-C3D-FS	V*-38B-C3B-FS	85.85	53.85	25.40	17.45
V*-38Z-C3DXC3C-FS	V*-38B-C3D-FS	V*-38B-C3C-FS	85.85	69.85	38.10	17.45
V*-38Z-C3EXC3D-FS	V*-38B-C3E-FS	V*-38B-C3D-FS	114.30	85.85	50.80	17.45
V*-38Z-C3GXC3F-FS	V*-38B-C3G-FS	V*-38B-C3F-FS	152.40	117.35	76.20	19.84
V*-38Z-C3HXC3G-FS	V*-38B-C3H-FS	V*-38B-C3G-FS	171.45	152.40	101.60	21.44
V*-38Z-C3JXC3H-FS	V*-38B-C3J-FS	V*-38B-C3H-FS	203.20	171.45	127.00	22.23

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

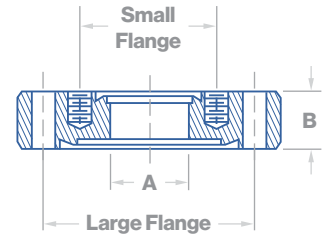


Valex
Vacuum
Components

CF
Flanges

CF Zero Length Reducer Flange

Large Flange: Nonrotatable, Clearance Bolt Holes
Small Flange: Nonrotatable, Tapped Bolt Holes

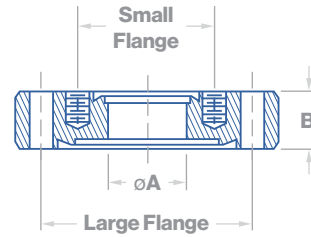


Part Number	Dimensions in Inches**					
	Large Flange Part Number	Small Flange Part Number	Lg. Flange Size	Sm. Flange Size	A	B
V*-38Z-C3CXC3A-TF	V*-38B-C3C-FF	V*-38B-C3A-FS	2.75	1.33	0.625	0.500
V*-38Z-C3DXC3A-TF	V*-38B-C3D-FF	V*-38B-C3A-FS	3.38	1.33	0.625	0.687
V*-38Z-C3EXC3A-TF	V*-38B-C3E-FF	V*-38B-C3A-FS	4.50	1.33	0.625	0.687
V*-38Z-C3EXC3B-TF	V*-38B-C3E-FF	V*-38B-C3B-FS	4.50	2.12	1.000	0.687
V*-38Z-C3EXC3C-TF	V*-38B-C3E-FF	V*-38B-C3C-FS	4.50	2.75	1.500	0.687
V*-38Z-C3FXC3A-TF	V*-38B-C3F-FF	V*-38B-C3A-FS	4.62	1.33	0.625	0.812
V*-38Z-C3FXC3B-TF	V*-38B-C3F-FF	V*-38B-C3B-FS	4.62	2.12	1.000	0.812
V*-38Z-C3FXC3C-TF	V*-38B-C3F-FF	V*-38B-C3C-FS	4.62	2.75	1.500	0.812
V*-38Z-C3FXC3D-TF	V*-38B-C3F-FF	V*-38B-C3D-FS	4.62	3.38	2.000	0.812
V*-38Z-C3GXC3A-TF	V*-38B-C3G-FF	V*-38B-C3A-FS	6.00	1.33	0.625	0.781
V*-38Z-C3GXC3B-TF	V*-38B-C3G-FF	V*-38B-C3B-FS	6.00	2.12	1.000	0.781
V*-38Z-C3GXC3C-TF	V*-38B-C3G-FF	V*-38B-C3C-FS	6.00	2.75	1.500	0.781
V*-38Z-C3GXC3D-TF	V*-38B-C3G-FF	V*-38B-C3D-FS	6.00	3.38	2.000	0.781
V*-38Z-C3GXC3E-TF	V*-38B-C3G-FF	V*-38B-C3E-FS	6.00	4.50	2.500	0.781
V*-38Z-C3HXC3A-TF	V*-38B-C3H-FF	V*-38B-C3A-FS	6.75	1.33	0.625	0.844
V*-38Z-C3HXC3B-TF	V*-38B-C3H-FF	V*-38B-C3B-FS	6.75	2.12	1.000	0.844
V*-38Z-C3HXC3C-TF	V*-38B-C3H-FF	V*-38B-C3C-FS	6.75	2.75	1.500	0.844
V*-38Z-C3HXC3D-TF	V*-38B-C3H-FF	V*-38B-C3D-FS	6.75	3.38	2.000	0.844
V*-38Z-C3HXC3E-TF	V*-38B-C3H-FF	V*-38B-C3E-FS	6.75	4.50	2.500	0.844
V*-38Z-C3HXC3F-TF	V*-38B-C3H-FF	V*-38B-C3F-FS	6.75	4.62	3.000	0.844
V*-38Z-C3JXC3A-TF	V*-38B-C3J-FF	V*-38B-C3A-FS	8.00	1.33	0.625	0.875
V*-38Z-C3JXC3B-TF	V*-38B-C3J-FF	V*-38B-C3B-FS	8.00	2.12	1.000	0.875
V*-38Z-C3JXC3C-TF	V*-38B-C3J-FF	V*-38B-C3C-FS	8.00	2.75	1.500	0.875
V*-38Z-C3JXC3D-TF	V*-38B-C3J-FF	V*-38B-C3D-FS	8.00	3.38	2.000	0.875
V*-38Z-C3JXC3E-TF	V*-38B-C3J-FF	V*-38B-C3E-FS	8.00	4.50	2.500	0.875
V*-38Z-C3JXC3F-TF	V*-38B-C3J-FF	V*-38B-C3F-FS	8.00	4.62	3.000	0.875
V*-38Z-C3JXC3G-TF	V*-38B-C3J-FF	V*-38B-C3G-FS	8.00	6.00	4.000	0.875
V*-38Z-C3KXC3A-TF	V*-38B-C3K-FF	V*-38B-C3A-FS	10.00	1.33	0.625	0.968
V*-38Z-C3KXC3B-TF	V*-38B-C3K-FF	V*-38B-C3B-FS	10.00	2.12	1.000	0.968
V*-38Z-C3KXC3C-TF	V*-38B-C3K-FF	V*-38B-C3C-FS	10.00	2.75	1.500	0.968
V*-38Z-C3KXC3D-TF	V*-38B-C3K-FF	V*-38B-C3D-FS	10.00	3.38	2.000	0.968
V*-38Z-C3KXC3E-TF	V*-38B-C3K-FF	V*-38B-C3E-FS	10.00	4.50	2.500	0.968
V*-38Z-C3KXC3F-TF	V*-38B-C3K-FF	V*-38B-C3F-FS	10.00	4.62	3.000	0.968
V*-38Z-C3KXC3G-TF	V*-38B-C3K-FF	V*-38B-C3G-FS	10.00	6.00	4.000	0.968
V*-38Z-C3KXC3H-TF	V*-38B-C3K-FF	V*-38B-C3H-FS	10.00	6.75	5.000	0.968
V*-38Z-C3KXC3J-TF	V*-38B-C3K-FF	V*-38B-C3J-FS	10.00	8.00	6.000	0.968
V*-38Z-C3MXC3A-TF	V*-38B-C3M-FF	V*-38B-C3A-FS	13.25	1.33	0.625	1.125
V*-38Z-C3MXC3B-TF	V*-38B-C3M-FF	V*-38B-C3B-FS	13.25	2.12	1.000	1.125
V*-38Z-C3MXC3C-TF	V*-38B-C3M-FF	V*-38B-C3C-FS	13.25	2.75	1.500	1.125
V*-38Z-C3MXC3D-TF	V*-38B-C3M-FF	V*-38B-C3D-FS	13.25	3.38	2.000	1.125
V*-38Z-C3MXC3E-TF	V*-38B-C3M-FF	V*-38B-C3E-FS	13.25	4.50	2.500	1.125
V*-38Z-C3MXC3F-TF	V*-38B-C3M-FF	V*-38B-C3F-FS	13.25	4.62	3.000	1.125

CF Zero Length Reducer Flanges

Large Flange: Nonrotatable, Clearance Bolt Holes
 Small Flange: Nonrotatable, Tapped Bolt Holes

CONTINUED



Valex
 Vacuum
 Components

CF Flanges

Part Number	Dimensions in Inches**					
	Large Flange Part Number	Small Flange Part Number	Lg. Flange Size	Sm. Flange Size	A	B
V*-38Z-C3MXC3G-TF	V*-38B-C3M-FF	V*-38B-C3G-FS	13.25	6.00	4.000	1.125
V*-38Z-C3MXC3H-TF	V*-38B-C3M-FF	V*-38B-C3H-FS	13.25	6.75	5.000	1.125
V*-38Z-C3MXC3J-TF	V*-38B-C3M-FF	V*-38B-C3J-FS	13.25	8.00	6.000	1.125
V*-38Z-C3MXC3K-TF	V*-38B-C3M-FF	V*-38B-C3K-FS	13.25	10.00	8.000	1.125

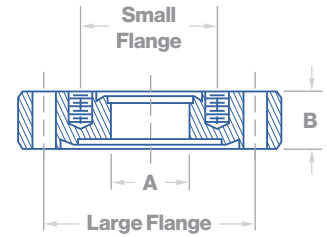
* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Millimeter dimensions on the following page



CF Zero Length Reducer Flange

Large Flange: Nonrotatable, Clearance Bolt Holes
Small Flange: Nonrotatable, Tapped Bolt Holes

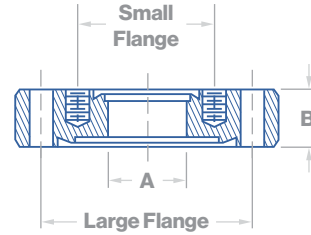


Part Number	Dimensions in Millimeters**					
	Large Flange Part Number	Small Flange Part Number	Lg. Flange Size	Sm. Flange Size	A	B
V*-38Z-C3CXC3A-TF	V*-38B-C3C-FF	V*-38B-C3A-FS	69.85	33.78	15.88	12.70
V*-38Z-C3DXC3A-TF	V*-38B-C3D-FF	V*-38B-C3A-FS	85.85	33.78	15.88	17.45
V*-38Z-C3EXC3A-TF	V*-38B-C3E-FF	V*-38B-C3A-FS	114.30	33.78	15.88	17.45
V*-38Z-C3EXC3B-TF	V*-38B-C3E-FF	V*-38B-C3B-FS	114.30	53.85	25.40	17.45
V*-38Z-C3EXC3C-TF	V*-38B-C3E-FF	V*-38B-C3C-FS	114.30	69.85	38.10	17.45
V*-38Z-C3FXC3A-TF	V*-38B-C3F-FF	V*-38B-C3A-FS	117.35	33.78	15.88	20.62
V*-38Z-C3FXC3B-TF	V*-38B-C3F-FF	V*-38B-C3B-FS	117.35	53.85	25.40	20.62
V*-38Z-C3FXC3C-TF	V*-38B-C3F-FF	V*-38B-C3C-FS	117.35	69.85	38.10	20.62
V*-38Z-C3FXC3D-TF	V*-38B-C3F-FF	V*-38B-C3D-FS	117.35	85.85	50.80	20.62
V*-38Z-C3GXC3A-TF	V*-38B-C3G-FF	V*-38B-C3A-FS	152.40	33.78	15.88	19.84
V*-38Z-C3GXC3B-TF	V*-38B-C3G-FF	V*-38B-C3B-FS	152.40	53.85	25.40	19.84
V*-38Z-C3GXC3C-TF	V*-38B-C3G-FF	V*-38B-C3C-FS	152.40	69.85	38.10	19.84
V*-38Z-C3GXC3D-TF	V*-38B-C3G-FF	V*-38B-C3D-FS	152.40	85.85	50.80	19.84
V*-38Z-C3GXC3E-TF	V*-38B-C3G-FF	V*-38B-C3E-FS	152.40	114.30	63.50	19.84
V*-38Z-C3HXC3A-TF	V*-38B-C3H-FF	V*-38B-C3A-FS	171.45	33.78	15.88	21.44
V*-38Z-C3HXC3B-TF	V*-38B-C3H-FF	V*-38B-C3B-FS	171.45	53.85	25.40	21.44
V*-38Z-C3HXC3C-TF	V*-38B-C3H-FF	V*-38B-C3C-FS	171.45	69.85	38.10	21.44
V*-38Z-C3HXC3D-TF	V*-38B-C3H-FF	V*-38B-C3D-FS	171.45	85.85	50.80	21.44
V*-38Z-C3HXC3E-TF	V*-38B-C3H-FF	V*-38B-C3E-FS	171.45	114.30	63.50	21.44
V*-38Z-C3HXC3F-TF	V*-38B-C3H-FF	V*-38B-C3F-FS	171.45	117.35	76.20	21.44
V*-38Z-C3JXC3A-TF	V*-38B-C3J-FF	V*-38B-C3A-FS	203.20	33.78	15.88	22.23
V*-38Z-C3JXC3B-TF	V*-38B-C3J-FF	V*-38B-C3B-FS	203.20	53.85	25.40	22.23
V*-38Z-C3JXC3C-TF	V*-38B-C3J-FF	V*-38B-C3C-FS	203.20	69.85	38.10	22.23
V*-38Z-C3JXC3D-TF	V*-38B-C3J-FF	V*-38B-C3D-FS	203.20	85.85	50.80	22.23
V*-38Z-C3JXC3E-TF	V*-38B-C3J-FF	V*-38B-C3E-FS	203.20	114.30	63.50	22.23
V*-38Z-C3JXC3F-TF	V*-38B-C3J-FF	V*-38B-C3F-FS	203.20	117.35	76.20	22.23
V*-38Z-C3JXC3G-TF	V*-38B-C3J-FF	V*-38B-C3G-FS	203.20	152.40	101.60	22.23
V*-38Z-C3KXC3A-TF	V*-38B-C3K-FF	V*-38B-C3A-FS	254.00	85.85	15.88	24.59
V*-38Z-C3KXC3B-TF	V*-38B-C3K-FF	V*-38B-C3B-FS	254.00	53.85	25.40	24.59
V*-38Z-C3KXC3C-TF	V*-38B-C3K-FF	V*-38B-C3C-FS	254.00	69.85	38.10	24.59
V*-38Z-C3KXC3D-TF	V*-38B-C3K-FF	V*-38B-C3D-FS	254.00	85.85	50.80	24.59
V*-38Z-C3KXC3E-TF	V*-38B-C3K-FF	V*-38B-C3E-FS	254.00	114.30	63.50	24.59
V*-38Z-C3KXC3F-TF	V*-38B-C3K-FF	V*-38B-C3F-FS	254.00	117.35	76.20	24.59
V*-38Z-C3KXC3G-TF	V*-38B-C3K-FF	V*-38B-C3G-FS	254.00	152.40	101.60	24.59
V*-38Z-C3KXC3H-TF	V*-38B-C3K-FF	V*-38B-C3H-FS	254.00	69.85	127.00	24.59
V*-38Z-C3KXC3J-TF	V*-38B-C3K-FF	V*-38B-C3J-FS	254.00	203.20	152.40	24.59
V*-38Z-C3MXC3A-TF	V*-38B-C3M-FF	V*-38B-C3A-FS	336.55	85.85	15.88	28.58
V*-38Z-C3MXC3B-TF	V*-38B-C3M-FF	V*-38B-C3B-FS	336.55	53.85	25.40	28.58
V*-38Z-C3MXC3C-TF	V*-38B-C3M-FF	V*-38B-C3C-FS	336.55	69.85	38.10	28.58
V*-38Z-C3MXC3D-TF	V*-38B-C3M-FF	V*-38B-C3D-FS	336.55	85.85	50.80	28.58
V*-38Z-C3MXC3E-TF	V*-38B-C3M-FF	V*-38B-C3E-FS	336.55	114.30	63.50	28.58
V*-38Z-C3MXC3F-TF	V*-38B-C3M-FF	V*-38B-C3F-FS	336.55	117.35	76.20	28.58

CF Zero Length Reducer Flanges

Large Flange: Nonrotatable, Clearance Bolt Holes
 Small Flange: Nonrotatable, Tapped Bolt Holes

CONTINUED



Valex
 Vacuum
 Components

CF Flanges

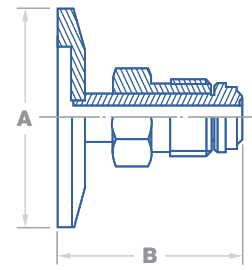
Part Number	Dimensions in Millimeters**					
	Large Flange Part Number	Small Flange Part Number	Lg. Flange Size	Sm. Flange Size	A	B
V*-38Z-C3MXC3G-TF	V*-38B-C3M-FF	V*-38B-C3G-FS	336.55	152.40	101.60	28.58
V*-38Z-C3MXC3H-TF	V*-38B-C3M-FF	V*-38B-C3H-FS	336.55	171.45	127.00	28.58
V*-38Z-C3MXC3J-TF	V*-38B-C3M-FF	V*-38B-C3J-FS	336.55	203.20	152.40	28.58
V*-38Z-C3MXC3K-TF	V*-38B-C3M-FF	V*-38B-C3K-FS	336.55	254.00	203.20	28.58

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

** Inch dimensions on the previous pages



NW Face Seal Male Adaptor



Part Number
V*-34V-N1BXW04
V*-34V-N1BXW08
V*-34V-N1CXW04
V*-34V-N1CXW08
V*-34V-N1DXW04
V*-34V-N1DXW08
V*-34V-N1EXW04
V*-34V-N1EXW08

Dimensions in Inches					
	Flange Size		Face Seal Size	A	B
	NW	inch			
V*-34V-N1BXW04	16	3/4"	1/4"	1.180	1.460
V*-34V-N1BXW08	16	3/4"	1/2"	1.180	1.650
V*-34V-N1CXW04	25	1"	1/4"	1.575	1.460
V*-34V-N1CXW08	25	1"	1/2"	1.575	1.650
V*-34V-N1DXW04	40	1-1/2"	1/4"	2.160	1.460
V*-34V-N1DXW08	40	1-1/2"	1/2"	2.160	1.650
V*-34V-N1EXW04	50	2"	1/4"	2.950	1.460
V*-34V-N1EXW08	50	2"	1/2"	2.950	1.650

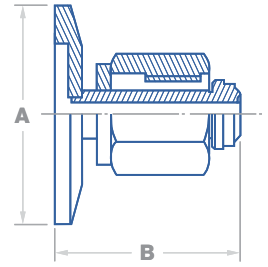
Part Number
V*-34V-N1BXW04
V*-34V-N1BXW08
V*-34V-N1CXW04
V*-34V-N1CXW08
V*-34V-N1DXW04
V*-34V-N1DXW08
V*-34V-N1EXW04
V*-34V-N1EXW08

Dimensions in Millimeters					
	Flange Size		Face Seal Size	A	B
	NW	mm			
V*-34V-N1BXW04	16	19.05	6.35	29.97	37.08
V*-34V-N1BXW08	16	19.05	12.70	29.97	41.91
V*-34V-N1CXW04	25	25.40	6.35	40.01	37.08
V*-34V-N1CXW08	25	25.40	12.70	40.01	41.91
V*-34V-N1DXW04	40	38.10	6.35	54.86	37.08
V*-34V-N1DXW08	40	38.10	12.70	54.86	41.91
V*-34V-N1EXW04	50	50.80	6.35	74.93	37.08
V*-34V-N1EXW08	50	50.80	12.70	74.93	41.91

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW Face Seal Female Adaptor



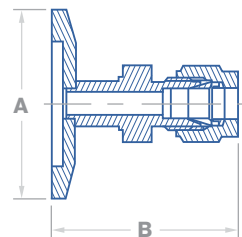
Part Number	Dimensions in Inches				
	Flange Size		Face Seal Size	A	B
	NW	inch			
V*-34A-N1BXW04	16	3/4"	1/4"	1.180	1.460
V*-34A-N1BXW08	16	3/4"	1/2"	1.180	1.650
V*-34A-N1CXW04	25	1"	1/4"	1.575	1.460
V*-34A-N1CXW08	25	1"	1/2"	1.575	1.650
V*-34A-N1DXW04	40	1-1/2"	1/4"	2.160	1.460
V*-34A-N1DXW08	40	1-1/2"	1/2"	2.160	1.650
V*-34A-N1EXW04	50	2"	1/4"	2.950	1.460
V*-34A-N1EXW08	50	2"	1/2"	2.950	1.650

Part Number	Dimensions in Millimeters				
	Flange Size		Face Seal Size	A	B
	NW	mm			
V*-34A-N1BXW04	16	19.05	6.35	29.97	37.08
V*-34A-N1BXW08	16	19.05	12.70	29.97	41.91
V*-34A-N1CXW04	25	25.40	6.35	40.01	37.08
V*-34A-N1CXW08	25	25.40	12.70	40.01	41.91
V*-34A-N1DXW04	40	38.10	6.35	54.86	37.08
V*-34A-N1DXW08	40	38.10	12.70	54.86	41.91
V*-34A-N1EXW04	50	50.80	6.35	74.93	37.08
V*-34A-N1EXW08	50	50.80	12.70	74.93	41.91

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW Compression Adaptor



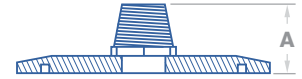
Part Number	Dimensions in Inches				
	Flange Size		Compression	A	B
	NW	inch			
V*-34C-N1BXW04	16	3/4"	1/4"	1.180	1.470
V*-34C-N1BXW08	16	3/4"	1/2"	1.180	1.630
V*-34C-N1CXW04	25	1"	1/4"	1.575	1.470
V*-34C-N1CXW08	25	1"	1/2"	1.575	1.630
V*-34C-N1DXW04	40	1-1/2"	1/4"	2.160	1.470
V*-34C-N1DXW08	40	1-1/2"	1/2"	2.160	1.630
V*-34C-N1EXW04	50	2"	1/4"	2.950	1.470
V*-34C-N1EXW08	50	2"	1/2"	2.950	1.630

Part Number	Dimensions in Millimeters				
	Flange Size		Compression	A	B
	NW	mm			
V*-34C-N1BXW04	16	19.05	6.35	29.97	44.20
V*-34C-N1BXW08	16	19.05	12.70	29.97	41.40
V*-34C-N1CXW04	25	25.40	6.35	40.01	37.34
V*-34C-N1CXW08	25	25.40	12.70	40.01	41.40
V*-34C-N1DXW04	40	38.10	6.35	54.86	37.34
V*-34C-N1DXW08	40	38.10	12.70	54.86	41.40
V*-34C-N1EXW04	50	50.80	6.35	74.93	37.34
V*-34C-N1EXW08	50	50.80	12.70	74.93	41.40

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



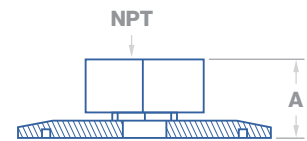
NW – NPT Male Adaptor



Part Number	Dimensions in Inches & Millimeters						
	Flange Size			NPT		A	
	NW	inch	mm	inch	mm	inch	mm
V*-34M-N1BXW02	16	3/4"	19.05	1/8"	3.175	0.880	22.352
V*-34M-N1BXW04	16	3/4"	19.05	1/4"	6.35	1.090	27.686
V*-34M-N1CXW04	25	1"	25.40	1/4"	6.35	1.090	27.686
V*-34M-N1DXW04	40	1-1/2"	38.10	1/4"	6.35	1.090	27.686
V*-34M-N1DXW08	40	1-1/2"	38.10	1/2"	12.70	1.340	34.04
V*-34M-N1EXW04	50	2"	50.80	1/4"	6.35	1.090	27.69
V*-34M-N1EXW08	50	2"	50.80	1/2"	12.70	1.340	34.04

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

NW – NPT Female Adaptor

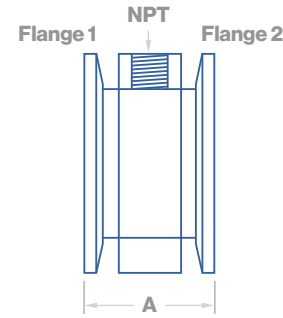


Part Number	Dimensions in Inches & Millimeters						
	Flange Size			NPT		A	
	NW	inch	mm	inch	mm	inch	mm
V*-34F-N1BXW02	16	3/4"	19.05	1/8"	3.18	0.880	22.35
V*-34F-N1BXW04	16	3/4"	19.05	1/4"	6.35	1.090	27.69
V*-34F-N1CXW04	25	1"	25.40	1/4"	6.35	1.090	27.69
V*-34F-N1DXW04	40	1-1/2"	38.10	1/4"	6.35	1.090	27.69
V*-34F-N1DXW08	40	1-1/2"	38.10	1/2"	12.70	1.340	34.04
V*-34F-N1EXW04	50	2"	50.80	1/4"	6.35	1.100	27.94
V*-34F-N1EXW08	50	2"	50.80	1/2"	12.70	1.340	34.04

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



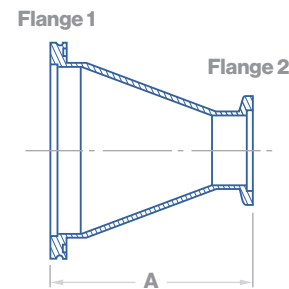
NW Gauge Tee Adaptor



Part Number	Dimensions in Inches & Millimeters				
	Flange 1 & 2 Size	FNPT		A	
		NW	inch	mm	inch
V*-34G-N1BXW02	16	1/8"	3.175	1.570	39.88
V*-34G-N1BXW04	16	1/4"	6.35	1.570	39.88
V*-34G-N1CXW02	25	1/8"	3.175	1.570	39.88
V*-34G-N1CXW04	25	1/4"	6.35	1.570	39.88
V*-34G-N1DXW02	40	1/8"	3.175	1.570	39.88
V*-34G-N1DXW04	40	1/4"	6.35	1.570	39.88
V*-34G-N1EXW02	50	1/8"	3.175	1.570	39.88
V*-34G-N1EXW04	50	1/4"	6.35	1.570	39.88

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

ISO-K – NW Concentric Adaptor Low Profile

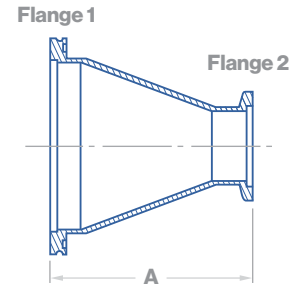


Part Number	Dimensions in Inches & Millimeters							
	Flange 1			Flange 2			A	
	ISO	inch	mm	NW	inch	mm	inch	mm
V*-34L-K2AXN1C	63	2-1/2"	63.50	25	1"	25.40	2.47	62.74
V*-34L-K2AXN1D	63	2-1/2"	63.50	40	1-1/2"	38.10	2.47	62.74
V*-34L-K2AXN1E	63	2-1/2"	63.50	50	2"	50.80	2.47	62.74
V*-34L-K2BXN1D	80	3"	76.20	40	1-1/2"	38.10	2.47	62.74
V*-34L-K2BXN1E	80	3"	76.20	50	2"	50.80	2.47	62.74
V*-34L-K2CXN1D	100	4"	101.60	40	1-1/2"	38.10	2.47	62.74
V*-34L-K2CXN1E	100	4"	101.60	50	2"	50.80	2.47	62.74

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



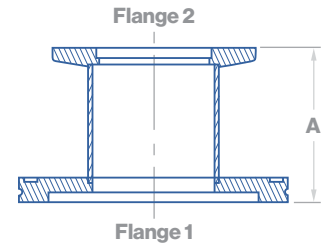
ISO-K – NW Concentric Adaptor Type 4



Part Number	Dimensions in Inches & Millimeters							
	Flange 1			Flange 2			A	
	ISO	inch	mm	NW	inch	mm	inch	mm
V*-34-K3AXN1D	63	2-1/2"	63.50	40	1-1/2"	38.10	2.775	70.49
V*-34-K3AXN1E	63	2-1/2"	63.50	50	2"	50.80	4.025	102.24
V*-34-K3BXN1D	80	3"	76.20	40	1-1/2"	38.10	2.775	70.49
V*-34-K3BXN1E	80	3"	76.20	50	2"	50.80	4.025	102.24
V*-34-K3CXN1D	100	4"	101.60	40	1-1/2"	38.10	5.680	144.27
V*-34-K3CXN1E	100	4"	101.60	50	2"	50.80	4.025	102.24

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

ISO-K – NW Straight Adaptor

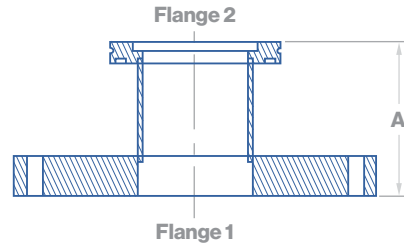


Part Number	Dimensions in Inches & Millimeters							
	Flange 1			Flange 2			A	
	ISO	inch	mm	NW	inch	mm	inch	mm
V*-34S-K2AXN1C	63	2-1/2"	63.50	25	1"	25.40	1.825	46.36
V*-34S-K2AXN1D	63	2-1/2"	63.50	40	1-1/2"	38.10	1.825	46.36
V*-34S-K2AXN1E	63	2-1/2"	63.50	50	2"	50.80	1.825	46.36
V*-34S-K2BXN1C	80	3"	76.20	25	1"	25.40	1.825	46.36
V*-34S-K2BXN1D	80	3"	76.20	40	1-1/2"	38.10	1.825	46.36
V*-34S-K2BXN1E	80	3"	76.20	50	2"	50.80	1.825	46.36
V*-34S-K2CXN1C	100	4"	101.60	25	1"	25.40	1.825	46.36
V*-34S-K2CXN1D	100	4"	101.60	40	1-1/2"	38.10	1.825	46.36
V*-34S-K2CXN1E	100	4"	101.60	50	2"	50.80	1.825	46.36

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



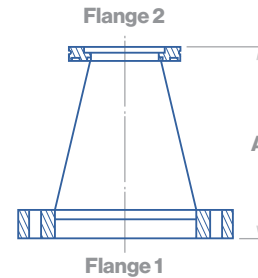
ISO-K – CF Straight Adaptor



Part Number	Dimensions in Inches & Millimeters				
	Flange 1	Flange 2		A	
	ISO	inch	mm	inch	mm
V*-34S-K2AXC3A	63	1.33	33.78	4.310	109.47
V*-34S-K2BXC3A	80	1.33	33.78	4.310	109.47
V*-34S-K2CXC3B	100	2.12	53.85	4.370	111.00
V*-34S-K2DXC3C	160	2.75	69.85	4.440	112.78
V*-34S-K2EXC3A	200	1.33	33.78	7.880	200.15

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

ISO-K – CF Conical Adaptor

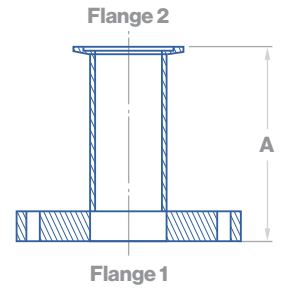


Part Number	Dimensions in Inches & Millimeters				
	Flange 1	Flange 2		A	
	ISO	inch	mm	inch	mm
V*-34-K2AXC3C	63	2.75	69.85	2.83	71.88
V*-34-K2AXC3D	63	3.38	85.85	2.85	72.39
V*-34-K2AXC3F	63	4.62	117.35	4.25	107.95
V*-34-K2AXC3G	63	6.00	152.40	4.31	109.47
V*-34-K2BXC3C	80	2.75	69.85	4.08	103.63
V*-34-K2BXC3D	80	3.38	85.85	4.10	104.14
V*-34-K2BXC3E	80	4.50	114.30	4.25	107.95
V*-34-K2BXC3G	80	6.00	152.40	4.31	109.47
V*-34-K2CXC3D	100	3.38	85.85	4.10	104.14
V*-34-K2CXC3E	100	4.50	114.30	4.25	107.95
V*-34-K2CXC3F	100	4.62	117.35	4.25	107.95

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



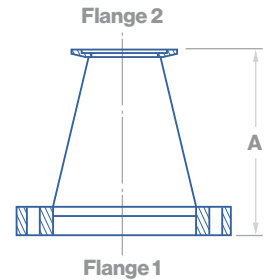
CF – NW Straight Adaptor



Part Number	Dimensions in Inches & Millimeters				
	Flange 1		Flange 2	A	
	inch	mm	NW	inch	mm
V*-34S-C3AXN1A	1.33	33.78	10	1.750	44.45
V*-34S-C3AXN1B	1.33	33.78	16	1.750	44.45
V*-34S-C3BXN1C	2.12	53.85	25	1.742	44.25
V*-34S-C3CXN1D	2.75	69.85	40	1.784	45.31
V*-34S-C3AXN1E	1.33	33.78	50	1.750	44.45
V*-34S-C3DXN1E	3.38	85.85	50	1.800	45.72

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

CF – NW Conical Adaptor

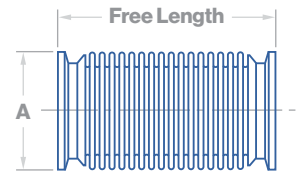


Part Number	Dimensions in Inches & Millimeters				
	Flange 1		Flange 2	A	
	inch	mm	NW	inch	mm
V*-34-C3AXN1C	1.33	33.78	25	2.700	68.58
V*-34-C3AXN1D	1.33	33.78	40	2.700	68.58
V*-34-C3BXN1B	2.12	53.85	16	2.690	68.33
V*-34-C3BXN1D	2.12	53.85	40	2.690	68.33
V*-34-C3BXN1E	2.12	53.85	50	2.690	68.33
V*-34-C3CXN1B	2.75	69.85	16	2.730	69.34
V*-34-C3CXN1C	2.75	69.85	25	2.730	69.34
V*-34-C3CXN1E	2.75	69.85	50	2.730	69.34
V*-34-C3DXN1C	3.38	85.85	25	2.750	69.85
V*-34-C3DXN1D	3.38	85.85	40	2.750	69.85
V*-34-C3EXN1D	4.50	114.30	40	2.900	73.66
V*-34-C3EXN1E	4.50	114.30	50	2.900	73.66
V*-34-C3FXN1D	4.62	117.35	40	4.150	105.41
V*-34-C3FXN1E	4.62	117.35	50	4.150	105.41
V*-34-C3GXN1E	6.00	152.40	50	4.210	106.93

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



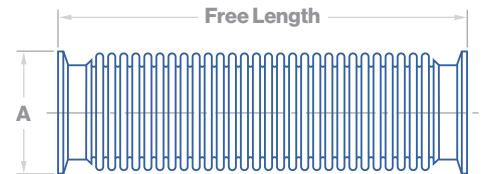
NW Flexible Bellows



Part Number	Dimensions in Inches & Millimeters						
	Flange Size	Tube O.D.		A		Free Length	
		NW	inch	mm	inch	mm	inch
V*-42B-N1A-BA	10	1/2"	12.70	1.180	29.97	3.200	81.28
V*-42B-N1B-BA	16	3/4"	19.05	1.180	29.97	3.200	81.28
V*-42B-N1C-BD	25	1"	25.40	1.575	40.01	4.200	106.68
V*-42B-N1D-BD	40	1-1/2"	38.10	2.160	54.86	4.200	106.68
V*-42B-N1E-BD	50	2"	50.80	2.950	74.93	4.200	106.68

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

NW Flexible Hose

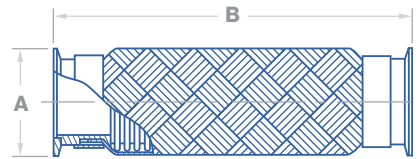


Part Number	Dimensions in Inches & Millimeters						
	Flange Size	Tube O.D.		A		B	
		NW	inch	mm	inch	mm	inch
V*-42H-N1B-HB	16	3/4"	19.05	1.180	29.97	12.000	304.80
V*-42H-N1B-HC	16	3/4"	19.05	1.180	29.97	18.000	457.20
V*-42H-N1B-HE	16	3/4"	19.05	1.180	29.97	24.000	609.60
V*-42H-N1B-HF	16	3/4"	19.05	1.180	29.97	36.000	914.40
V*-42H-N1C-HB	25	1"	25.40	1.575	40.01	12.000	304.80
V*-42H-N1C-HC	25	1"	25.40	1.575	40.01	18.000	457.20
V*-42H-N1C-HE	25	1"	25.40	1.575	40.01	24.000	609.60
V*-42H-N1C-HF	25	1"	25.40	1.575	40.01	36.000	914.40
V*-42H-N1D-HB	40	1-1/2"	38.10	2.160	54.86	12.000	304.80
V*-42H-N1D-HC	40	1-1/2"	38.10	2.160	54.86	18.000	457.20
V*-42H-N1D-HE	40	1-1/2"	38.10	2.160	54.86	24.000	609.60
V*-42H-N1D-HF	40	1-1/2"	38.10	2.160	54.86	36.000	914.40
V*-42H-N1E-HB	50	2"	50.80	2.950	74.93	12.000	304.80
V*-42H-N1E-HC	50	2"	50.80	2.950	74.93	18.000	457.20
V*-42H-N1E-HE	50	2"	50.80	2.950	74.93	24.000	609.60
V*-42H-N1E-HF	50	2"	50.80	2.950	74.93	36.000	914.40

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



NW Braided Flexible Hose

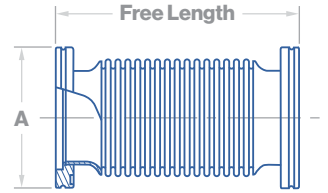


Part Number	Dimensions in Inches & Millimeters						
	Flange Size	Tube O.D.		A		B	
		NW	inch	mm	inch	mm	inch
V*-42R-N1B-HB	16	3/4"	19.05	1.180	29.97	12.00	304.80
V*-42R-N1B-HC	16	3/4"	19.05	1.180	29.97	18.00	457.20
V*-42R-N1B-HE	16	3/4"	19.05	1.180	29.97	24.00	609.60
V*-42R-N1B-HF	16	3/4"	19.05	1.180	29.97	36.00	914.40
V*-42R-N1C-HB	25	1"	25.40	1.575	40.01	12.00	304.80
V*-42R-N1C-HC	25	1"	25.40	1.575	40.01	18.00	457.20
V*-42R-N1C-HE	25	1"	25.40	1.575	40.01	24.00	609.60
V*-42R-N1C-HF	25	1"	25.40	1.575	40.01	36.00	914.40
V*-42R-N1D-HB	40	1-1/2"	38.10	2.160	54.86	12.00	304.80
V*-42R-N1D-HC	40	1-1/2"	38.10	2.160	54.86	18.00	457.20
V*-42R-N1D-HE	40	1-1/2"	38.10	2.160	54.86	24.00	609.60
V*-42R-N1D-HF	40	1-1/2"	38.10	2.160	54.86	36.00	914.40
V*-42R-N1E-HB	50	2"	50.80	2.950	74.93	12.00	304.80
V*-42R-N1E-HC	50	2"	50.80	2.950	74.93	18.00	457.20
V*-42R-N1E-HE	50	2"	50.80	2.950	74.93	24.00	609.60
V*-42R-N1E-HF	50	2"	50.80	2.950	74.93	36.00	914.40

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



ISO-K Flexible Bellows

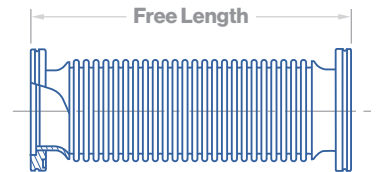


Part Number	Dimensions in Inches				
	Flange Size	Tube O.D.	A	Free Length	Compressed
	ISO	inch			
V*-42B-K2A-BF	63	2-1/2"	3.740	6.000	5.000
V*-42B-K2B-BF	80	3"	4.331	6.000	5.000
V*-42B-K2C-BF	100	4"	5.118	6.000	5.000
V*-42B-K2D-BF	160	6"	7.087	6.000	5.000

Part Number	Dimensions in Millimeters				
	Flange Size	Tube O.D.	A	Free Length	Compressed
	ISO	mm			
V*-42B-K2A-BF	63	63.50	95.00	152.40	127.00
V*-42B-K2B-BF	80	76.20	110.01	152.40	127.00
V*-42B-K2C-BF	100	101.60	130.00	152.40	127.00
V*-42B-K3DBF	160	152.40	180.01	152.40	127.00

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP

ISO-K Flexible Hose



Part Number	Dimensions in Inches & Millimeters				
	Flange Size	Tube O.D.		Free Length	
		ISO	inch	mm	inch
V*-42H-K2A-HB	63	2-1/2"	63.50	12.000	304.80
V*-42H-K2A-HC	63	2-1/2"	63.50	18.000	457.20
V*-42H-K2A-HE	63	2-1/2"	63.50	24.000	609.60
V*-42H-K2A-HF	63	2-1/2"	63.50	36.000	914.40
V*-42H-K2A-HG	63	2-1/2"	63.50	40.000	1016.00
V*-42H-K2B-HB	80	3"	76.20	12.000	304.80
V*-42H-K2B-HC	80	3"	76.20	18.000	457.20
V*-42H-K2B-HE	80	3"	76.20	24.000	609.60
V*-42H-K2B-HF	80	3"	76.20	36.000	914.40
V*-42H-K2B-HG	80	3"	76.20	40.000	1016.00
V*-42H-K2C-HB	100	4"	101.60	12.000	304.80
V*-42H-K2C-HC	100	4"	101.60	18.000	457.20
V*-42H-K2C-HE	100	4"	101.60	24.000	609.60
V*-42H-K2C-HF	100	4"	101.60	36.000	914.40
V*-42H-K2C-HG	100	4"	101.60	40.000	1016.00

* **Standard Finish:** VA = 304, VD = 304L, VB = 316, VC = 316L
Electropolished Finish: VK = 304 EP, VN = 304L EP, VL = 316 EP, VM = 316L EP



Valex

Vacuum
Components

Vacuum Fittings
Part Number Matrix

XX
Material / Finish

- Standard Finish
Stainless Steel
VA = 304
VB = 316
VC = 316L
VD = 304L
- Electropolished
Stainless Steel
VK = 304 EP
VL = 316 EP
VM = 316L EP
VN = 304L EP

- XXX
Configuration Code

- 2 = 90° Elbow,
No Tangent
- 2T = 90° Elbow,
with Tangent
- 2L = 90° Elbow,
Extended Tangent
- 2M = 90° Elbow,
Mitered No Tangent
- 2X = 90° Elbow,
Mitered Extended
- 2K = 45° Elbow,
No Tangent
- 2N = 45° Elbow,
with Tangent
- 2E = 45° Elbow,
Extended Tangent
- 6H = Nipple, Half
- 6F = Nipple, Full
- 6E = Nipple, Full,
Extended
- 7 = Tee, Equal
- 7L = Tee, Equal,
Extended
- 7R = Tee, Reducing
- 9 = Cross, 4-Way
- 9R = Cross, 4-Way
Reducing
- 9L = Cross, 4-Way,
Extended
- 9F = Cross, 5-Way
- 9E = Cross, 5-Way,
Extended
- 9S = Cross, 6-Way
- 9T = Cross, 6-Way,
Extended
- 9C = Cross, 6-Way Cube
- 16 = Cap, Weld
- 31 = Reducer,
Concentric / Conical
- 31T = Reducer, Concentric
with Tangent
- 31S = Reducer, Straight
- 34 = Adapter,
Concentric / Conical
- 34L = Adapter, Concentric
Low Profile
- 34T = Adapter, Concentric
with Tangent
- 34S = Adapter, Straight
- 34V = Adapter, Face Seal
Male
- 34A = Adapter, Face Seal
Female
- 34C = Adapter, Compression
- 34M = Adapter, NPT Male
- 34F = Adapter, NPT Female
- 34H = Adaptor, Hose
- 34G = Adapter, Gauge Tee
- 38 = Flange, Blank
- 38W = Flange, Blank,
Neck Weld
- 38Q = Flange, Blank,
Neck Weld
w/ Weld Prep
- 38D = Flange, Blank,
Double Sided
- 38B = Flange, Bored
- 38S = Flange, Bored,
Socket Weld
- 38N = Flange, Bored,
Short Neck Weld
- 38L = Flange, Bored,
Long Neck Weld
- 38K = Flange, Bored,
Neck Weld
- 38V = Flange, Bored,
Neck Weld
w/ Weld Prep
- 38M = Flange, Bored,
Double Sided
- 38Z = Flange, Bored,
Zero Length Reducer
- 42B = Bellows, Flexible
- 42H = Hose, Flexible
- 42R = Hose, Braided Flexible

- X
Type Code

- Connection Type
W = Weld (Butt/Socket)
Z = Fitting Size
(NPT, Hose Face-Seal,
Compression)
- Flange Type
N = NW / KF (ISO-KF)
K = ISO-K
F = ISO-F (Bolted)
C = CF



XX
Size Code

x X XX
TYPE SIZE

XX
Attribute Code

**Used for 2nd Size,
Flange Size or
Flange Size ID**

*If required, build
second size by using
two previous columns
(type and size code)*

**Tube, Fitting
(Inches)**

- 02 = 1/8"
- 04 = 1/4"
- 06 = 3/8"
- 08 = 1/2"
- 10 = 5/8"
- 12 = 3/4"
- 14 = 7/8"
- 16 = 1"
- 20 = 1-1/4"
- 24 = 1-1/2"
- 26 = 1-5/8"
- 28 = 1-3/4"
- 32 = 2"
- 40 = 2-1/2"
- 48 = 3"
- 64 = 4"
- 80 = 5"
- 96 = 6"
- 53 = 8"
- 55 = 10"
- 57 = 12"

**Pipe, Fitting
(NPS / NPT)**

- 67 = 1/8
- 68 = 1/4
- 69 = 3/8
- 70 = 1/2
- 71 = 3/4
- 72 = 1
- 74 = 1-1/2
- 84 = 12
(12.75" O.D.)
- 85 = 14
(14" O.D.)
- 86 = 16
(16" O.D.)
- 88 = 20
(20" O.D.)

NW / KF Flange

- 1A = NW10, 1.18" (30mm) O.D.
- 1B = NW16, 1.18" (30mm) O.D.
- 1C = NW25, 1.58" (40mm) O.D.
- 1D = NW40, 2.16" (55mm) O.D.
- 1E = NW50, 2.95" (75mm) O.D.
- 1F = NW20, 1.58" (40mm) O.D.
- 1G = NW32, 2.16" (55mm) O.D.

ISO Flange

- 2A = ISO 63, 3.74" (95mm) O.D.
- 2B = ISO 80, 4.33" (110mm) O.D.
- 2C = ISO 100, 5.12" (130mm) O.D.
- 2D = ISO 160, 7.09" (180mm) O.D.
- 2E = ISO 200, 9.45" (240mm) O.D.
- 2F = ISO 250, 11.42" (290mm) O.D.
- 2G = ISO 320, 14.75" (370mm) OD
- 2H = ISO 400, 17.72" (450mm) O.D.
- 2J = ISO 500, 21.65" (550mm) O.D.

CF Flange

- 3A = 1.33", 1.33" (33.8mm) O.D.
- 3B = 2.12", 2.12" (53.8mm) O.D.
- 3C = 2.75", 2.73" (69.3mm) O.D.
- 3D = 3.38", 3.36" (85.3mm) O.D.
- 3E = 4.50", 4.47" (113.5mm) O.D.
- 3F = 4.62", 4.61" (117.1mm) O.D.
- 3G = 6.00", 5.97" (151.6mm) O.D.
- 3H = 6.75", 6.73" (170.9mm) O.D.
- 3J = 8.00", 7.97" (202.4mm) O.D.
- 3K = 10.00", 9.97" (253.2mm) O.D.
- 3L = 12.00", 11.97" (304.0mm) O.D.
- 3M = 13.25", 13.25" (336.6mm) O.D.
- 3N = 14.00", 14.00" (355.6mm) O.D.
- 3P = 14.50", 14.50" (368.3mm) O.D.
- 3Q = 16.50", 16.50" (419.1mm) O.D.

Other

Blank = Configurations not listed below
(Note: for BLANK code, do not include
-XX in part number)

**Only use for
CF & ISO-F Flanges**

- FF = Non-rotatable
- FS = Non-rotatable, Tapped, Inch
- FM = Non-rotatable, Tapped, Metric
- FR = Rotatable
- FT = Rotatable, Tapped, Inch
- FN = Rotatable, Tapped, Metric

**Only use for
CF Flanged Tees, Crosses
& Reducers**

- TA = Non-rotatable, Rotatable
- TB = Non-rotatable, 2 Rotatable
- TC = 2 Non-rotatable, 2 Rotatable
- TD = 2 Non-rotatable, 3 Rotatable
- TE = 3 Non-rotatable, 3 Rotatable
- TF = Non-rotatable
- TG = Rotatable

Bellows Length

- BA = 3.2"
- BB = 3.5"
- BC = 4.0"
- BD = 4.2"
- BE = 5.2"
- BF = 6.0"
- BG = 7.0"
- BH = 8.0"
- BK = 8.2"

**Hose/Braided
Hose Length**

- HA = 10.0"
- HB = 12.0"
- HC = 18.0"
- HD = 20.0"
- HE = 24.0"
- HF = 36.0"
- HG = 40.0"
- HH = 48.0"
- HJ = 96.0"

**Half Nipple Length
(See catalog for lengths)**

- NA = Length A
- NB = Length B
- NC = Length C
- ND = Length D



Valex

Vacuum
Components

Vacuum Accessories
Part Number Matrix

XX
Material / Finish

- XXX
Configuration Code

- X
Type Code

Other Materials

V0 = Use for:
Clamps,
Caps,
Rings,
Gaskets,
O-Rings
& Hardware

- 13 = Clamp, Single Claw
 - 13D = Clamp, Double Claw
 - 13W = Clamp, Wing Nut
 - 13L = Clamp, Lever / Quick
 - 13C = Clamp, Chain
 - 13B = Clamp, Bulkhead
-
- 16D = Cap, Plastic Cap
-
- 39 = Ring, Centering
 - 39C = Ring, Centering w/out O-ring Assembly
 - 39M = Ring, Centering, Screen w/ O-ring Assembly
 - 39N = Ring, Centering, Screen w/ O-Ring & Spacer Ring Assembly
 - 39S = Ring, Spacer
 - 39D = Ring, Centering w/ O-ring & Spacer Ring Assembly
 - 39R = Ring, Rotatable Flange Retaining
 - 39T = Ring, Overpressure
 - 39E = Ring, Centering w/ O-ring & Overpressure Ring Assembly
 - 39P = Ring, Capture
 - 39F = Ring, Centering w/ O-ring & Capture Ring Assembly
 - 39L = Ring, Reducing Centering w/ O-ring Assembly
-
- 70 = Hardware, Bolts & Washers
 - 70B = Hardware, Bolts, Nuts & Washers
 - 70C = Hardware, 12-pt Bolts & Washers
 - 70D = Hardware, 12-pt Bolts, Nuts & Washers
 - 70P = Hardware, Plate Nuts
 - 70Q = Hardware, Plate Nuts & Bolts
 - 70R = Hardware, Plate Nuts, Bolts & Washers
 - 70S = Hardware, Plate Nuts, & 12-pt Bolts
 - 70T = Hardware, Plate Nuts, 12-pt Bolts & Washers
-
- 72R = O-ring
 - 72G = Gasket

Flange Type

N = NW / KF (ISO-KF)
K = ISO-K
F = ISO-F (Bolted)
C = CF

Centering Ring Type

N = NW / KF (ISO-KF)
S = ISO-K / ISO-F



XX

Size Code

X XX

SIZE

– XX (X)

Attribute Code

NW / KF

Centering Ring / Clamp

- 1A = NW10, 1.18" (30mm) O.D.
- 1B = NW16, 1.18" (30mm) O.D.
- 1C = NW25, 1.58" (40mm) O.D.
- 1D = NW40, 2.16" (55mm) O.D.
- 1E = NW50, 2.95" (75mm) O.D.
- 1F = NW20, 1.58" (40mm) O.D.
- 1G = NW32, 2.16" (55mm) O.D.
- 1H = NW80, 4.33" (110mm) O.D.

ISO Centering Rings

- 2A = ISO 63, 3.74" (95mm) O.D.
- 2B = ISO 80, 4.33" (110mm) O.D.
- 2C = ISO 100, 5.12" (130mm) O.D.
- 2D = ISO 160, 7.09" (180mm) O.D.
- 2E = ISO 200, 9.45" (240mm) O.D.
- 2F = ISO 250, 11.42" (290mm) O.D.
- 2G = ISO 320, 14.75" (370mm) O.D.
- 2H = ISO 400, 17.72" (450mm) O.D.
- 2J = ISO 500, 21.65" (550mm) O.D.

CF Flange

- 3A = 1.33", 1.33" (33.8mm) O.D.
- 3B = 2.12", 2.12" (53.8mm) O.D.
- 3C = 2.75", 2.73" (69.3mm) O.D.
- 3D = 3.38", 3.36" (85.3mm) O.D.
- 3E = 4.50", 4.47" (113.5mm) O.D.
- 3F = 4.62", 4.61" (117.1mm) O.D.
- 3G = 6.00", 5.97" (151.6mm) O.D.
- 3H = 6.75", 6.73" (170.9mm) O.D.
- 3J = 8.00", 7.97" (202.4mm) O.D.
- 3K = 10.00", 9.97" (253.2mm) O.D.
- 3L = 12.00", 11.97" (304.0mm) O.D.
- 3M = 13.25", 13.25" (336.6mm) O.D.
- 3N = 14.00", 14.00" (355.6mm) O.D.
- 3P = 14.50", 14.50" (368.3mm) O.D.
- 3Q = 16.50", 16.50" (419.1mm) O.D.

ISO Claw Clamp

- 4A = ISO 63 – ISO 100
- 4B = ISO 160 – ISO 250
- 4C = ISO 320 – ISO 500

**Used for Reducing
Centering Ring**

*If required, build
second size by using
previous column
(size code)*

Clamp Thread / Material

- CA = Inch, Aluminum
- CB = Metric, Aluminum
- CC = Inch, 316 SS
- CD = Metric, 316 SS
- CE = Inch, 304 SS

Gasket Material Options

- G1 = Copper
- G2 = Silver Plated Copper
- G3 = PTFE

Dust Cap

- PA = Plastic

For the Following Configurations Select One from Each Option:

Rings & O-ring Materials

Option 1 – Centering Rings

- X = No Centering Ring
- 1 = Centering Ring, Aluminum
- 2 = Centering Ring, 304 SS
- 3 = Centering Ring, 316 SS
- 4 = Centering Ring, 316 SS, EP

Option 2 – O-rings

- X = No O-ring
- A = NBR (Buna)
- B = EPDM
- C = FKM (Viton)
- D = Silicone
- E = Kalrez

Option 3 – Rings (Outer)

- X = No Ring
- A = Spacer, Aluminum
- D = Overpressure, Aluminum
- E = Overpressure, 304 SS
- F = Overpressure, 316 SS
- G = Capture, Aluminum
- H = Capture, 304 SS
- J = Capture, 316 SS
- K = Retaining, 304 SS

Hardware Material / Thread

Option 1 – Plate Nut

- X = No Plate Nut
- P = Plate Nut, 304 SS

**Option 2 – Material
and/or Thread**

- X = No Bolts & Washers
- S = Inch
- M = Metric
- T = Inch, 10-8SS (Bolts)
- U = Inch, 10-8SS, Silver-Plated (Bolts)
- V = Metric, 10-8SS (Bolts)
- W = Metric, 10-8SS, Silver-Plated (Bolts)

**Option 3 – Bolt Length
(See catalog for lengths)**

- X = No Bolt
- A = Length A
- B = Length B
- C = Length C
- D = Length D
- E = Length E
- F = Length F



Valex Corporate Offices & Manufacturing

6080 Leland Street
Ventura, CA 93003
United States of America
Phone: 805-658-0944

32 Hansan-gil
Cheongbuk-eup
Pyeongtaek-si, Gyeonggi-do
Republic of Korea
Phone: 82-31-683-0119

No. 358 Zhonggang Road
Xitangqiao Street
Haiyan Economic Development Zone
Zhejiang Province, P.R. China 314305
Phone: 86-573-86868221