

VACUUM FITTING PART NUMBER MATRIX

XX
MATERIAL / FINISH

STANDARD FINISH SS
VA = 304
VD = 304L
VB = 316
VC = 316L
VQ = 316LN

MECHANICAL POLISHED SS
VE = 304
VH = 304L
VF = 316
VG = 316L

ELECTROPOLISHED SS
VK = 304 EP
VN = 304L EP
VL = 316 EP
VM = 316L EP

- XXX
CONFIGURATION CODE

2 = 90° ELBOW, WITH TANGENT
2T = 90° ELBOW, NO TANGENT
2L = 90° ELBOW, EXTENDED TANGENT
2M = 90° ELBOW, MITERED NO TANGENT
2X = 90° ELBOW, MITERED EXTENDED
2K = 45° ELBOW, WITH TANGENT
2N = 45° ELBOW, NO TANGENT
3Y = Y BRANCH
6HS = NIPPLE, HALF, SHORT
6H = NIPPLE, HALF
6HE = NIPPLE, HALF, EXTENDED
6F = NIPPLE, FULL
6FE = NIPPLE, FULL, EXTENDED
7 = TEE, EQUAL
7L = TEE, EQUAL, EXTENDEND
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 W/ TANGENT
31L = REDUCER, STRAIGHT
34 = ADAPTER, CONCENTRIC / CONICAL
34L = ADAPTER, CONCENTRIC LOW PROFILE
34T = ADAPTER, CONCENTRIC W/ TANGENT
34S = ADAPTER, STRAIGHT
34V = ADAPTOR, FACE SEAL MALE
34A = ADAPTOR, FACE SEAL FEMALE
34C = ADAPTOR, COMPRESSION
34M = ADAPTOR, NPT MALE
34F = ADAPTOR, NPT FEMALE
34H = ADAPTOR, HOSE
34G = ADAPTOR, 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, FORMED
42E = BELLOWS, EDGE WELDED
42H = HOSE, FORMED
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

TUBE / PIPE / FITTING	
TUBE	PIPE
02 = 1/8"	67 = 1/8 NPS / NPT
04 = 1/4"	68 = 1/4 NPS / NPT
06 = 3/8"	69 = 3/8 NPS / NPT
08 = 1/2"	70 = 1/2 NPS / NPT
10 = 5/8"	71 = 3/4 NPS / NPT
12 = 3/4"	72 = 1 NPS / NPT
14 = 7/8"	74 = 1-1/2 NPS / NPT
16 = 1"	84 = 12 NPS (12.75" O.D.)
20 = 1-1/4"	85 = 14 NPS (14" O.D.)
24 = 1-1/2"	86 = 16 NPS (16" O.D.)
26 = 1-5/8"	88 = 20 NPS (20" O.D.)
28 = 1-3/4"	
32 = 2"	
40 = 2-1/2"	
48 = 3"	
64 = 4"	
80 = 5"	
96 = 6"	
53 = 8"	
55 = 10"	
57 = 12"	

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.
1H = NW80, 4.33" (110mm) O.D.
1J = NW100, 5.12" (130mm) O.D.
1K = NW160, 7.09" (180mm) 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) 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.

x X XX
TYPE SIZE

USED FOR 2ND SIZE:
FLANGE, BUTT/SOCKET WELD, OR FITTING

If required, build 2nd size by using two previous columns (type and size code)

EX: VA-7-W12XW08
VA-34M-K2AXZ68
VA-38B-N1BXW06

- XX
ATTRIBUTE CODE

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, CROSSSES, REDUCERS, HALF & FULL NIPPLES
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
BM = 2.5"
BA = 3.2"
BB = 3.5"
BC = 4.0"
BD = 4.2"
BN = 5.0"
BE = 5.2"
BF = 6.0"
BG = 7.0"
BH = 8.0"
BK = 8.2"
BL = 9.0"

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"
HK = 132.0"

Part Number Examples:
Elbow: VA-2-N1D
Concentric Reducer: VA-31-N1DXN1B
Full Nipple: VA-6F-N1E
Straight Reducer: VA-31L-K2BXK2A
Equal Tee: VA-7-K2AXK2A
Reducing Tee: VA-7R-K2CXK2A
4-Way Reducing Cross: VA-9R-C3DXC3A-TC
Adaptor, FACE-SEAL MALE: VA-34V-C3AXZ04-FF
Adaptor Concentric Reducer.: VA-34-K2AXN1D
Blank Flange: VA-38-N1A
Bored Flange Rotatable: VA-38B-C3HXW80-FR
Zero Length Reducer: VA-38Z-C3GXC3A-FF
Bellows, 4.2" Length: VA-42B-N1B-BD
Hose, 12" Length: VA-42H-N1D-HB

NOTES:
1. NOT ALL POSSIBLE PART NUMBER CONFIGURATION ARE AVAILABLE. PLEASE CONTACT VALEX FOR AVAILABILITY.


www.valex.com

TITLE VACUUM FITTING PART NUMBER MATRIX		
SPECIFICATION SP-7200	SHEET 1 OF 2	REV F

VACUUM ACCESSORIES PART NUMBER MATRIX

XX <small>MATERIAL / FINISH</small>	- XXX <small>CONFIGURATION CODE</small>	- X <small>TYPE CODE</small>	XX <small>SIZE CODE</small>	x XX <small>SIZE</small>	- XX (XX) <small>ATTRIBUTE CODE</small>
<p>OTHER MATERIALS</p> <p>V0 = USE FOR CLAMPS, CAPS, RINGS, GASKETS, O-RINGS, & HARDWARE</p>	<p>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 DUST 39 = RING, CENTERING 39C = RING, CENTERING W/ 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</p>	<p>FLANGE TYPE</p> <p>N = NW / KF (ISO-KF) K = ISO-K F = ISO-F (BOLTED) C = CF</p> <p>CENTERING RING TYPE²</p> <p>N = NW / KF (ISO-KF) S = ISO-K/ISO-F</p>	<p>NW / KF CENTERING RING / CLAMP</p> <p>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.</p> <p>ISO CENTERING RINGS</p> <p>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.</p> <p>CF FLANGE</p> <p>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.</p> <p>ISO CLAW CLAMP</p> <p>4A = ISO 63 - ISO 100 4B = ISO 160 - ISO 250 4C = ISO 320 - ISO 500 4D = ISO 63 - ISO 250</p>	<p>USED FOR REDUCING CENTERING RING</p> <p><i>If required, build 2nd size by using previous column (size code)</i></p> <p>EX: V0-39L-N1FX1C-4CX</p>	<p>CLAMP THREAD / MATERIAL</p> <p>CA = INCH, ALUMINUM CB = METRIC, ALUMINUM CC = INCH, 316 SS, ZINC PLATED NUT CD = METRIC, 316 SS, ZINC PLATED NUT CE = INCH, 304 SS</p> <p>GASKET MATERIAL OPTIONS</p> <p>G1 = OFHC COPPER G2 = SILVER PLATED OFHC COPPER G3 = PTFE</p> <p>DUST CAP</p> <p>PA = PLASTIC</p>
<p>FOR THE FOLLOWING CONFIGURATIONS SELECT ONE FROM EACH OPTION:</p>					
		RINGS AND O-RING MATERIALS			
		OPTION 1 - CENTERING RINGS	OPTION 2 - O-RINGS	OPTION 3 - RINGS (OUTER)	OPTION 4 - O-RING COLOR
		<p>X = NO CENTERING RING 1 = CENTERING RING, ALUMINUM 2 = CENTERING RING, 304 SS 3 = CENTERING RING, 316L SS 4 = CENTERING RING, 316L SS, EP 5 = CENTERING RING, 316 SS 6 = CENTERING RING, 316 SS, EP</p>	<p>X = NO O-RING A = NBR (BUNA) B = EPDM C = FKM (VITON) D = SILICONE E = KALREZ 6375 F = KALREZ 8900 G = KALREZ 9100 H = KALREZ 9500</p>	<p>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</p>	<p>BLANK = BLACK B = BROWN G = GREEN</p>
		OPTION 1 - PLATE NUT	OPTION 2 - MAT'L and/or THREAD	OPTION 3 - BOLT LENGTH	
		<p>X = NO PLATE NUT P = PLATE NUT, 304 SS</p>	<p>X = NO BOLTS AND WASHERS S = INCH (PLATE NUT) M = METRIC (PLATE NUT) T = INCH, 10-8SS (BOLTS) U = INCH, 10-8SS, SILVER-PLATED (BOLTS) V = METRIC, 10-8SS (BOLTS) W = METRIC, 10-8SS, SILVER-PLATED (BOLTS)</p>	<p><i>(SEE CATALOG FOR LENGTHS)</i></p> <p>X = NO BOLT A = STANDARD LENGTH A B = STANDARD LENGTH B C = STANDARD LENGTH C</p>	

Part Number Examples:

- Double Claw Clamp:** V0-13D-K2B-CA
- Plastic Dust Cap:** V0-16D-K2D-PA
- Centering Ring w/ Viton O-ring:** V0-39C-K2E-2CX
- Centering Ring w/ Viton O-ring & Aluminum Capture Ring Assembly:** V0-39F-N1D-2CG
- Centering Ring:** V0-39-K2F4-1XX
- Spacer Ring:** V0-39S-K2C-XXA
- Rotatable Flange Retaining Ring:** V0-39R-F2A-XXJ
- Reducing Centering Ring w/ O-ring:** V0-39L-N1AXN1B-4CX
- Hardware, Plate Nuts:** V0-70P-C3B-PSX
- Hardware, Bolts, Nuts & Washers:** V0-70B-C3F-XTA
- Hardware, Plate Nuts, Bolts & Washers:** V0-70R-C3H-PTA
- Copper Gasket:** V0-72G-N1C-G1
- Viton O-Ring:** V0-72O-K2C-XCX

NOTES:

1. NOT ALL POSSIBLE PART NUMBER CONFIGURATION ARE AVAILABLE. PLEASE CONTACT VALEX FOR AVAILABILITY.
2. AT FLANGE SIZE 80 & LARGER, NW/KF & ISO CENTERING RINGS ARE THE SAME. USE "S" DESIGNATOR IN P/N FOR NW/KF SIZE 80 & ABOVE.



TITLE VACUUM ACCESSORIES PART NUMBER MATRIX		
SPECIFICATION SP-7200	SHEET 2 OF 2	REV F