

VACUUM FITTING PART NUMBER MATRIX

XX MATERIAL / FINISH	- XXX CONFIGURATION CODE	- X TYPE CODE	XX SIZE CODE	X X XX TYPE SIZE	- XX ATTRIBUTE CODE																																												
<p>STANDARD FINISH SS</p> <p>VA = 304 VD = 304L VB = 316 VC = 316L VQ = 316LN</p> <p>MECHANICAL POLISHED SS</p> <p>VE = 304 VH = 304L VF = 316 VG = 316L</p> <p>ELECTROPOLISHED SS</p> <p>VK = 304 EP VN = 304L EP VL = 316 EP VM = 316L EP</p>	<p>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</p> <p>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</p> <p>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</p>	<p>CONNECTION TYPE</p> <p>W = WELD (BUTTWELD/SOCKET) Z = FITTING SIZE (NPT, HOSE, FACE-SEAL, COMPRESSION)</p> <p>FLANGE TYPE</p> <p>N = NW / KF (ISO-KF) K = ISO-K F = ISO-F (BOLTED) C = CF</p>	<p>TUBE / PIPE / FITTING</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>TUBE</th> <th>PIPE</th> </tr> </thead> <tbody> <tr><td>02 = 1/8"</td><td>67 = 1/8 NPS / NPT</td></tr> <tr><td>04 = 1/4"</td><td>68 = 1/4 NPS / NPT</td></tr> <tr><td>06 = 3/8"</td><td>69 = 3/8 NPS / NPT</td></tr> <tr><td>08 = 1/2"</td><td>70 = 1/2 NPS / NPT</td></tr> <tr><td>10 = 5/8"</td><td>71 = 3/4 NPS / NPT</td></tr> <tr><td>12 = 3/4"</td><td>72 = 1 NPS / NPT</td></tr> <tr><td>14 = 7/8"</td><td>74 = 1-1/2 NPS / NPT</td></tr> <tr><td>16 = 1"</td><td>84 = 12 NPS (12.75" O.D.)</td></tr> <tr><td>20 = 1-1/4"</td><td>85 = 14 NPS (14" O.D.)</td></tr> <tr><td>24 = 1-1/2"</td><td>86 = 16 NPS (16" O.D.)</td></tr> <tr><td>26 = 1-5/8"</td><td>88 = 20 NPS (20" O.D.)</td></tr> <tr><td>28 = 1-3/4"</td><td></td></tr> <tr><td>32 = 2"</td><td></td></tr> <tr><td>40 = 2-1/2"</td><td></td></tr> <tr><td>48 = 3"</td><td></td></tr> <tr><td>64 = 4"</td><td></td></tr> <tr><td>80 = 5"</td><td></td></tr> <tr><td>96 = 6"</td><td></td></tr> <tr><td>53 = 8"</td><td></td></tr> <tr><td>55 = 10"</td><td></td></tr> <tr><td>57 = 12"</td><td></td></tr> </tbody> </table> <p>NW / KF FLANGE</p> <p>1A = NW 10, 1.18" (30mm) O.D. 1B = NW 16, 1.18" (30mm) O.D. 1C = NW 25, 1.58" (40mm) O.D. 1D = NW 40, 2.16" (55mm) O.D. 1E = NW 50, 2.95" (75mm) O.D. 1F = NW 20, 1.58" (40mm) O.D. 1G = NW 32, 2.16" (55mm) O.D. 1H = NW 80, 4.33" (110mm) O.D. 1J = NW 100, 5.12" (130mm) O.D. 1K = NW 160, 7.09" (180mm) O.D.</p> <p>ISO FLANGE</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>	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"		<p>USED FOR 2ND SIZE: FLANGE, BUTTWELD/SOCKET WELD, OR FITTING</p> <p><i>If required, build 2nd size by using two previous columns (type & size code)</i></p> <p>EX: VA-7-W12XW08 VA-34M-K2AXZ68 VA-38B-N1BXW06</p>	<p>OTHER</p> <p>BLANK = Configurations not listed below <i>(Note: for BLANK code, do not include -XX in part number)</i></p> <p>ONLY USE FOR CF & ISO-F FLANGES</p> <p>FF = NON-ROTATABLE FS = NON-ROTATABLE, TAPPED, INCH FM = NON-ROTATABLE, TAPPED, METRIC FR = ROTATABLE FT = ROTATABLE, TAPPED, INCH FN = ROTATABLE, TAPPED, METRIC</p> <p>ONLY USE FOR: CF FLANGED TEES, CF CROSSES, CF REDUCERS, CF HALF & CF FULL NIPPLES</p> <p>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</p>
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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

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

 www.valex.com		
TITLE VACUUM FITTINGS & HOSE ITEM NUMBER SCHEME		
SPECIFICATION SP-7200	SHEET 1 OF 3	REV J

VACUUM ACCESSORIES PART NUMBER MATRIX

XX MATERIAL / FINISH	- XXX CONFIGURATION CODE	- X TYPE CODE	XX SIZE CODE	X XX SIZE	- XX (XX) ATTRIBUTE CODE																																												
<p>OTHER MATERIALS 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</p> <p>----- 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</p> <p>----- 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</p> <p>----- 72R = O-RING 72G = GASKET</p>	<p>FLANGE TYPE N = NW / KF (ISO-KF) K = ISO-K F = ISO-F (BOLTED) C = CF</p> <p>CENTERING RING TYPE² N = NW / KF (ISO-KF) S = ISO-K/ISO-F</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>ISO CLAW CLAMP 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 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 G1 = OFHC COPPER G2 = SILVER PLATED OFHC COPPER G3 = PTFE</p>																																												
<p>FOR THE FOLLOWING CONFIGURATIONS SELECT ONE FROM EACH OPTION:</p>																																																	
<p>RINGS AND O-RING MATERIALS</p> <table border="0"> <tr> <td>OPTION 1 - CENTERING RINGS</td> <td>OPTION 2 - O-RINGS</td> <td>OPTION 3 - RINGS (OUTER)</td> <td>OPTION 4 - O-RING COLOR</td> </tr> <tr> <td>X = NO CENTERING RING</td> <td>X = NO O-RING</td> <td>X = NO RING</td> <td>BLANK = BLACK</td> </tr> <tr> <td>1 = CENTERING RING, ALUMINUM</td> <td>A = NBR (BUNA)</td> <td>A = SPACER, ALUMINUM</td> <td>B = BROWN</td> </tr> <tr> <td>2 = CENTERING RING, 304 SS</td> <td>B = EPDM</td> <td>D = OVERPRESSURE, ALUMINUM</td> <td>G = GREEN</td> </tr> <tr> <td>3 = CENTERING RING, 316L SS</td> <td>C = FKM (VITON)</td> <td>E = OVERPRESSURE, 304 SS</td> <td></td> </tr> <tr> <td>4 = CENTERING RING, 316L SS, EP</td> <td>D = SILICONE</td> <td>F = OVERPRESSURE, 316 SS</td> <td></td> </tr> <tr> <td>5 = CENTERING RING, 316 SS</td> <td>E = KALREZ 6375</td> <td>G = CAPTURE, ALUMINUM</td> <td></td> </tr> <tr> <td>6 = CENTERING RING, 316 SS, EP</td> <td>F = KALREZ 8900</td> <td>H = CAPTURE, 304 SS</td> <td></td> </tr> <tr> <td></td> <td>G = KALREZ 9100</td> <td>J = CAPTURE, 316 SS</td> <td></td> </tr> <tr> <td></td> <td>H = KALREZ 9500</td> <td>K = RETAINING, 304 SS</td> <td></td> </tr> <tr> <td></td> <td>J = KALREZ 8575</td> <td></td> <td></td> </tr> </table>						OPTION 1 - CENTERING RINGS	OPTION 2 - O-RINGS	OPTION 3 - RINGS (OUTER)	OPTION 4 - O-RING COLOR	X = NO CENTERING RING	X = NO O-RING	X = NO RING	BLANK = BLACK	1 = CENTERING RING, ALUMINUM	A = NBR (BUNA)	A = SPACER, ALUMINUM	B = BROWN	2 = CENTERING RING, 304 SS	B = EPDM	D = OVERPRESSURE, ALUMINUM	G = GREEN	3 = CENTERING RING, 316L SS	C = FKM (VITON)	E = OVERPRESSURE, 304 SS		4 = CENTERING RING, 316L SS, EP	D = SILICONE	F = OVERPRESSURE, 316 SS		5 = CENTERING RING, 316 SS	E = KALREZ 6375	G = CAPTURE, ALUMINUM		6 = CENTERING RING, 316 SS, EP	F = KALREZ 8900	H = CAPTURE, 304 SS			G = KALREZ 9100	J = CAPTURE, 316 SS			H = KALREZ 9500	K = RETAINING, 304 SS			J = KALREZ 8575		
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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-XXX
 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.



Valex
www.valex.com

TITLE VACUUM FITTINGS & HOSE ITEM NUMBER SCHEME		
SPECIFICATION SP-7200	SHEET 2 OF 3	REV J

VACUUM BELLOWS & FLEXIBLE HOSE PART NUMBER MATRIX

XX MATERIAL / FINISH	- XXX CONFIGURATION CODE	- X TYPE CODE	XX SIZE CODE	X	X TYPE CODE	XX SIZE CODE	- XXX ATTRIBUTE CODE																																																																																								
<p>STANDARD FINISH SS</p> <p>VA = 304 VD = 304L VB = 316 VC = 316L VQ = 316LN VT = V22[®] ALLOY (UNS N06022)* VV = ALLOY 276 (UNS N10276)</p> <p>MECHANICAL POLISHED SS</p> <p>VE = 304 VH = 304L VF = 316 VG = 316L VU = V22[®] ALLOY (UNS N06022)* VY = ALLOY 276 (UNS N10276)</p> <p>ELECTROPOLISHED SS</p> <p>VK = 304 EP VN = 304L EP VL = 316 EP VM = 316L EP VV = V22[®] ALLOY (UNS N06022)* VZ = ALLOY 276 (UNS N10276)</p>	<p>42B = BELLOWS, FORMED 42E = BELLOWS, EDGE WELDED 42H = HOSE, FORMED 42R = HOSE, BRAIDED FLEXIBLE</p>	<p>CONNECTION TYPE</p> <p>W = WELD (BUTTWELD/SOCKET) T = COMPRESSION FITTING V = FACE SEAL, MALE U = FACE SEAL, FEMALE</p> <p>FLANGE TYPE</p> <p>N = NW / KF (ISO-KF) K = ISO-K F = ISO-F (BOLTED) C = CF</p>	<p>TUBE / PIPE / FITTING</p> <table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">TUBE</th> <th style="text-align: left;">PIPE</th> </tr> <tr> <td>02 = 1/8"</td> <td>67 = 1/8 NPS / NPT</td> </tr> <tr> <td>04 = 1/4"</td> <td>68 = 1/4 NPS / NPT</td> 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NOTES:

- NOT ALL POSSIBLE PART NUMBER CONFIGURATION ARE AVAILABLE. PLEASE CONTACT VALEX FOR AVAILABILITY.
- FINISH OPTIONS ARE FOR END CONNECTIONS ONLY. ALL BRAIDED HOSES ARE 304/304L.

*MATERIAL: HAYNES HASTELLOY[®] C-22[®] IS AVAILABLE UPON REQUEST. HASTELLOY AND C-22 ARE REGISTERED TRADEMARKS OF HAYNES INTERNATIONAL INC.

Part Number Examples:

- Bellows, 12" Length:** VM-42B-N1CXN1C-4.0
Bellows, 12" Length: VM-42B-K2BXK2A-4.0
Hose, 12" Length: VM-42H-U04XU04-12
Hose, 120" Length: VM-42H-T04XT04-120

 www.valex.com		
TITLE		
VACUUM FITTINGS & HOSE ITEM NUMBER SCHEME		
SPECIFICATION SP-7200	SHEET 3 OF 3	REV J