

**VACUUM TUBE & PIPE PART NUMBER MATRIX**

**XX**

**- XXXXX**

**X**

**X**

**XXXX**

**- XXXX**

**PROCESS / ALLOY<sup>1&2</sup>**

**CW** = 316L WELDED

**DW** = 304L WELDED

**SIZE CODE:**

**ASTM TUBE O.D.**

- 1/4 = .25"
- 3/8 = .375"
- 1/2 = .5"
- 3/4 = .75"
- 1 = 1"
- 1-1/2 = 1.5"
- 2 = 2"
- 2-1/2 = 2.5"
- 3 = 3"
- 4 = 4"
- 6 = 6"
- 8 = 8"
- 10 = 10"

**NPS PIPE O.D.**

**300** = DN 300 (NPS 12 / JIS 300A)

**END TYPE CODE:**

**ASTM TUBE**

**BLANK** = SQUARE

**NPS PIPE:**

**L** = SQUARE

**WALL CODE**

**TUBE WALL THICKNESS**

- .035 = .035"
- .039 = .039"
- .049 = .049"
- .065 = .065"
- .083 = .083"
- .120 = .120"

**PIPE SCHEDULE**

**10S** = SCH. 10

**FINISH CODE<sup>3&4</sup>**

**MP** = O.D.=150-grit MP, I.D.=180-grit MP

**VB** = O.D.=BA/AP, I.D.=BA/AP

*ASTM Tube Example:*

**CW-1/2X.049-VB**

VALEX VACUUM SPEC TUBE, 316L WELDED, 1/2" O.D. X .049" WALL, VB FINISH OPTION, SQUARED ENDS

*NPS Pipe Example:*

**DW-300LX10S-VB**

VALEX VACUUM SPEC PIPE, 304L WELDED, NPS 12 (DN 300) X SCH 10, VB FINISH OPTION, SQUARED ENDS

**NOTES:**

1. PER VALEX SPECIFICATION SP-7201
2. PROCESS CODES ARE NOT AVAILABLE FOR ALL SIZE AND FINISH CODES. PLEASE CONTACT VALEX FOR ITEM NUMBER AVAILABILITY.
3. VB FINISH CODE: BA FOR SIZES < 6" AND AP FOR SIZES ≥ 6".
4. FOR EP GRADE, REFER TO 401 PRODUCT LINE



www.valex.com

TITLE

**VACUUM FITTINGS & HOSE ITEM NUMBER SCHEME**

SPECIFICATION

**SP-7200**

SHEET

**1/4**

REV.

**L**

VACUUM FITTING PART NUMBER MATRIX

**XX**  
MATERIAL / FINISH

**STANDARD FINISH SS<sup>1</sup>**  
VA = 304  
VD = 304L  
VC = 316L  
VQ = 316LN

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

**ELECTROPOLISHED SS**  
VK = 304 EP  
VN = 304L 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, 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 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

**- X**  
TYPE CODE

**CONNECTION TYPE**  
W = WELD (BUTTWELD/SOCKET)  
Z = FITTING SIZE (NPT, HOSE, FACE-SEAL, COMPRESSION)

**FLANGE TYPE**  
N = NW / KF  
K = ISO-K  
F = ISO-F (BOLTED)  
C = CF

**XX**  
SIZE CODE

**TUBE / PIPE / FITTING**

TUBE / FITTING O.D.	PIPE O.D.
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")
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"	

**NW / KF FLANGE<sup>3</sup>**

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.)

**ISO FLANGE**

2A = ISO63 (3.74", 95mm O.D.)
2B = ISO80 (4.33", 110mm O.D.)
2C = ISO100 (5.12", 130mm O.D.)
2D = ISO160 (7.09", 180mm O.D.)
2E = ISO200 (9.45", 240mm O.D.)
2F = ISO250 (11.42", 290mm O.D.)
2G = ISO320 (14.75", 370mm O.D.)
2H = ISO400 (17.72", 450mm O.D.)
2J = ISO500 (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.)

**NW / KF FLANGE (CHAIN CLAMP)<sup>4</sup>**

5H = NW 80 (4.33", 110mm O.D.)
5J = NW 100 (5.12", 130mm O.D.)
5K = NW 160 (7.09", 180mm O.D.)

**x X XX**  
TYPE SIZE

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

If required, build second size by using two previous columns (type & 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, CF CROSSES, CF REDUCERS, CF HALF & CF 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

**NOTES:**

- STANDARD FINISH IS TUMBLE FOR BUTTWELD FITTINGS.
- STANDARD FINISH IS MACHINED FOR FLANGES.
- FLANGE SIZES 1H, 1J, & 1K ARE FOR BAND CLAMP
- FLANGE SIZES 5H, 5J, & 5K ARE FOR CHAIN CLAMP
- NOT ALL POSSIBLE PART NUMBER CONFIGURATION ARE AVAILABLE. PLEASE CONTACT VALEX FOR AVAILABILITY.

**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



TITLE: VACUUM FITTINGS & HOSE ITEM NUMBER SCHEME


SPECIFICATION: SP-7200	SHEET: 2 OF 4	REV: L
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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><b>OTHER MATERIALS</b></p> <p>V0 = USE FOR: CLAMPS, CAPS, RINGS, GASKETS, O-RINGS, &amp; 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 &amp; SPACER RING ASSEMBLY 39S = RING, SPACER 39D = RING, CENTERING W/ O-RING &amp; SPACER RING ASSEMBLY 39R = RING, ROTATABLE FLANGE RETAINING 39T = RING, OVERPRESSURE 39E = RING, CENTERING W/ O-RING &amp; OVERPRESSURE RING ASSEMBLY 39P = RING, CAPTURE 39F = RING, CENTERING W/ O-RING &amp; CAPTURE RING ASSEMBLY 39L = RING, REDUCING CENTERING W/ O-RING ASSEMBLY 70 = HARDWARE, BOLTS &amp; WASHERS 70B = HARDWARE, BOLTS, NUTS &amp; WASHERS 70C = HARDWARE, 12-PT BOLTS &amp; WASHERS 70D = HARDWARE, 12-PT BOLTS, NUTS &amp; WASHERS 70P = HARDWARE, PLATE NUTS 70Q = HARDWARE, PLATE NUTS &amp; BOLTS 70R = HARDWARE, PLATE NUTS, BOLTS &amp; WASHERS 70S = HARDWARE, PLATE NUTS &amp; 12-PT BOLTS 70T = HARDWARE, PLATE NUTS, 12-PT BOLTS &amp; WASHERS 72R = O-RING 72G = GASKET</p>	<p><b>FLANGE TYPE<sup>1</sup></b> N = NW / KF K = ISO-K F = ISO-F (BOLTED) C = CF</p> <p><b>CENTERING RING TYPE<sup>2</sup></b> N = NW / KF S = ISO-K/ISO-F</p>	<p><b>NW / KF<sup>3</sup></b> 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><b>ISO-K / ISO-F</b> 2A = ISO63 (3.74", 95mm O.D.) 2B = ISO80 (4.33", 110mm O.D.) 2C = ISO100 (5.12", 130mm O.D.) 2D = ISO160 (7.09", 180mm O.D.) 2E = ISO200 (9.45", 240mm O.D.) 2F = ISO250 (11.42", 290mm O.D.) 2G = ISO320 (14.75", 370mm O.D.) 2H = ISO400 (17.72", 450mm O.D.) 2J = ISO500 (21.65", 550mm O.D.)</p> <p><b>CF</b> 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><b>ISO-K CLAW CLAMP</b> 4A = ISO63 - ISO100 4B = ISO160 - ISO250 4C = ISO320 - ISO500 4D = ISO63 - ISO250</p>	<p><b>USED FOR REDUCING CENTERING RING</b></p> <p><i>If required, build 2nd size by using previous column (size code)</i></p> <p>EX: V0-39L-N1FX1C-4CX</p>	<p><b>CLAMP THREAD / MATERIAL<sup>4</sup></b> 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><b>GASKET MATERIAL</b> G1 = OFHC COPPER G2 = SILVER PLATED OFHC COPPER G3 = PTFE</p> <p><b>RINGS &amp; O-RING MATERIAL</b></p> <table border="0"> <tr> <td><b>OPTION 1 - CENTERING RINGS</b></td> <td><b>OPTION 2 - O-RINGS</b></td> <td><b>OPTION 3 - RINGS (OUTER)</b></td> <td><b>OPTION 4 - O-RING COLOR</b></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> <tr> <td></td> <td>K = KALREZ 4979</td> <td></td> <td></td> </tr> </table> <p><b>HARDWARE MATERIAL / THREAD</b></p> <table border="0"> <tr> <td><b>OPTION 1 - PLATE NUT</b></td> <td><b>OPTION 2 - MAT'L and/or THREAD</b></td> <td><b>OPTION 3 - BOLT LENGTH</b></td> </tr> <tr> <td>X = NO PLATE NUT</td> <td>X = NO BOLTS AND WASHERS</td> <td>(SEE CATALOG FOR LENGTHS)</td> </tr> <tr> <td>P = PLATE NUT, 304 SS</td> <td>S = INCH (PLATE NUT)</td> <td>X = NO BOLT</td> </tr> <tr> <td></td> <td>M = METRIC (PLATE NUT)</td> <td>A = STANDARD LENGTH A</td> </tr> <tr> <td></td> <td>T = INCH, 10-8SS (BOLTS)</td> <td>B = STANDARD LENGTH B</td> </tr> <tr> <td></td> <td>U = INCH, 10-8SS, SILVER-PLATED (BOLTS)</td> <td>C = STANDARD LENGTH C</td> </tr> <tr> <td></td> <td>V = METRIC, 10-8SS (BOLTS)</td> <td></td> </tr> <tr> <td></td> <td>W = METRIC, 10-8SS, SILVER-PLATED (BOLTS)</td> <td></td> </tr> </table>	<b>OPTION 1 - CENTERING RINGS</b>	<b>OPTION 2 - O-RINGS</b>	<b>OPTION 3 - RINGS (OUTER)</b>	<b>OPTION 4 - O-RING COLOR</b>	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				K = KALREZ 4979			<b>OPTION 1 - PLATE NUT</b>	<b>OPTION 2 - MAT'L and/or THREAD</b>	<b>OPTION 3 - BOLT LENGTH</b>	X = NO PLATE NUT	X = NO BOLTS AND WASHERS	(SEE CATALOG FOR LENGTHS)	P = PLATE NUT, 304 SS	S = INCH (PLATE NUT)	X = NO BOLT		M = METRIC (PLATE NUT)	A = STANDARD LENGTH A		T = INCH, 10-8SS (BOLTS)	B = STANDARD LENGTH B		U = INCH, 10-8SS, SILVER-PLATED (BOLTS)	C = STANDARD LENGTH C		V = METRIC, 10-8SS (BOLTS)			W = METRIC, 10-8SS, SILVER-PLATED (BOLTS)	
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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-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-XXC

- NOTES:**
- NW/KF USE ISO FLANGE TYPE FOR FLANGE SIZE ISO 80 & ABOVE.
  - NW/KF CENTERING RINGS ISO 80 & ABOVE USE THE "S" TYPE CODE DESIGNATOR IN P/N.
  - NW/KF USE ISO CENTERING RING SIZE CODES FOR FLANGE SIZE ISO 80 & ABOVE.
  - CHOOSE THE FOLLOWING MATERIAL FOR ISO CLAW CLAMP SIZES:  
4A, 4B & 4C: ALUMINUM, 4C & 4D: STAINLESS STEEL
  - NOT ALL POSSIBLE PART NUMBER CONFIGURATION ARE AVAILABLE. PLEASE CONTACT VALEX FOR AVAILABILITY.



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TITLE VACUUM FITTINGS & HOSE ITEM NUMBER SCHEME		
SPECIFICATION SP-7200	SHEET 3 OF 4	REV L

## VACUUM BELLOWS & FLEXIBLE HOSE PART NUMBER MATRIX

XX MATERIAL / FINISH <sup>1</sup>	- XXX CONFIGURATION CODE <sup>2</sup>	- X TYPE CODE	XX SIZE CODE	X TYPE CODE	XX SIZE CODE	- XXX ATTRIBUTE CODE																																												
<p><b>STANDARD FINISH SS</b></p> <p>VA = 304 VD = 304L VC = 316L VQ = 316LN VT = V22<sup>®</sup> ALLOY (UNS N06022)* VW = ALLOY 276 (UNS N10276)</p> <p><b>MECHANICAL POLISHED SS</b></p> <p>VE = 304 VH = 304L VG = 316L VU = V22<sup>®</sup> ALLOY (UNS N06022)* VY = ALLOY 276 (UNS N10276)</p> <p><b>ELECTROPOLISHED SS</b></p> <p>VK = 304 EP VN = 304L EP VM = 316L EP VV = V22<sup>®</sup> 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><b>CONNECTION TYPE</b></p> <p>W = WELD (BUTTWELD/SOCKET) T = COMPRESSION FITTING V = FACE SEAL, MALE U = FACE SEAL, FEMALE</p> <p><b>FLANGE TYPE</b></p> <p>N = NW / KF K = ISO-K F = ISO-F (BOLTED) C = CF</p>	<p><b>TUBE / PIPE / FITTING</b></p> <table border="0"> <tr> <th style="text-align: left;">TUBE O.D.</th> <th style="text-align: left;">PIPE O.D.</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> </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></td> </tr> <tr> <td>24 = 1-1/2"</td> <td></td> </tr> <tr> <td>26 = 1-5/8"</td> <td></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> </table> <p><b>NW / KF FLANGE</b></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><b>ISO-K / ISO-F FLANGE</b></p> <p>2A = ISO63 (3.74", 95mm O.D.) 2B = ISO80 (4.33", 110mm O.D.) 2C = ISO100 (5.12", 130mm O.D.) 2D = ISO160 (7.09", 180mm O.D.) 2E = ISO200 (9.45", 240mm O.D.) 2F = ISO250 (11.42", 290mm O.D.) 2G = ISO320 (14.75", 370mm O.D.) 2H = ISO400 (17.72", 450mm O.D.) 2J = ISO500 (21.65", 50mm O.D.)</p> <p><b>CF FLANGE</b></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 O.D.	PIPE O.D.	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"		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"		SEE PREVIOUS COLUMN "TYPE CODE" FOR OPTIONS	SEE PREVIOUS COLUMN "SIZE CODE" FOR OPTIONS	<p><b>BELLOWS LENGTH</b></p> <p>2.5 = 2.5" 3.0 = 3.0" 3.2 = 3.2" 3.5 = 3.5" 4.0 = 4.0" 4.2 = 4.2" 5.0 = 5.0" 5.2 = 5.2" 6.0 = 6.0" 7.0 = 7.0" 8.0 = 8.0" 8.2 = 8.2" 9.0 = 9.0"</p> <p><b>HOSE LENGTH</b></p> <p>10 = 10.0" 12 = 12.0" 18 = 18.0" 24 = 24.0" 30 = 30.0" 36 = 36.0" 42 = 42.0" 48 = 48.0" 54 = 54.0" 60 = 60.0" 72 = 72.0" 84 = 84.0" 96 = 96.0" 108 = 108.0" 120 = 120.0" 984 = 984.0"</p>
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**NOTES:**

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

\*MATERIAL: HAYNES HASTELLOY<sup>®</sup> C-22<sup>®</sup> 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-K2BK2A-4.0  
**Hose, 12" Length:** VM-42H-U04XU04-12  
**Hose, 120" Length:** VM-42H-T04XT04-120

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