

ASTM TUBE PART NUMBER MATRIX

TXXX

-

XX

-

XXXXX (XXX)

X4

-

XXX

XX

PROCESS CODE

- T1A** = PER SP-9204 (101)
- T2A** = PER SP-9206 (201)
- T2I** = PER CUSTOM SPEC
- T3A** = PER SP-9223 (301)
- T3B** = PER SP-9223 BULK PK (301)
- T3O** = PER SP-9223 OEM (301)
- T3OB** = PER SP-9223 OEM BULK PK (301)
- T4A** = PER SP-9220 (401)
- T4B** = PER SP-9220 BULK PK (401)
- T4I** = PER CUSTOM SPEC
- T4O** = PER SP-9220 OEM (401)
- T4R** = PER SP-9220 & I.D./O.D. POLISH (401)
- TMC** = PER SP-9207 (222)
- TNE** = PER SP-9241 (444)

ALLOY CODE (SEE NOTE 1)

- 0S** = 316L SEAMLESS
- 0W** = 316L WELDED
- 1S** = 304L SEAMLESS
- 1W** = 304L WELDED
- 2S** = 304L SEAMLESS
- 2W** = 304L WELDED
- 3S** = 304L SEAMLESS
- 3W** = 304L WELDED
- AS** = 304 SEAMLESS
- AW** = 304 WELDED
- BS** = 316L SEAMLESS, VOD/VAR
- HS** = UNS N06022 ALLOY
- KS** = 316L SEAMLESS VIM/VAR
- NS** = 316L SEAMLESS (ASTM STD)
- NW** = 316L WELDED (ASTM STD)
- QS** = 316L SEAMLESS
- QW** = 316L WELDED
- RS** = 316L SEAMLESS
- RW** = 316L WELDED
- VS** = 316L SEAMLESS VIM/VAR

SIZE CODE (SEE NOTE 3)

- 00125** .13 = .125" DIA
- 00250** .25 = .25" DIA
- 00375** .38 = .375" DIA
- 00500** .50 = .5" DIA
- 00750** .75 = .75" DIA
- 01000** 1.0 = 1" DIA
- 01500** 1.5 = 1.5" DIA
- 02000** 2.0 = 2" DIA
- 02500** 2.5 = 2.5" DIA
- 03000** 3.0 = 3" DIA
- 04000** 4.0 = 4" DIA
- 06000** 6.0 = 6" DIA

USED ONLY FOR 4-METER LENGTH TUBES

USED FOR 20-FOOT AND 6-METER LENGTH TUBES

USED ONLY FOR 4-METER LENGTH TUBES

WALL CODE

- 028** = .028" THICK
- 035** = .035" THICK
- 039** = .039" THICK
- 049** = .049" THICK
- 058** = .058" THICK
- 065** = .065" THICK
- 083** = .083" THICK
- 095** = .095" THICK
- 109** = .109" THICK

SURFACE FINISH & VISUALS

- USED ONLY FOR 401 PROCESS CODE**
- A5** = 5µIn Ra Max, Superior Visuals
 - A7** = 7µIn Ra Max, Superior Visuals
 - B0** = 10µIn Ra Max, Standard Visuals
 - C0** = 10µIn Ra, Relaxed Visuals
- USED ONLY FOR 444 PROCESS CODE**
- A** = 5µIn Ra Max
 - B** = 10µIn Ra Max

NOTES:

1. PROCESS CODES ARE NOT AVAILABLE FOR ALL TYPE CODES (MATERIAL) AND SIZES. PLEASE CONTACT VALEX SALES FOR ITEM NUMBER AVAILABILITY.
2. ZEROS MAY BE OMITTED AND REPLACED WITH DECIMAL IN SOME PROCESSES (I.E. T30B).
3. SHADED COLUMNS USED ONLY FOR 4-METER LENGTH TUBES.
4. VISUAL CRITERIA IS TO BE USED IN CONJUNCTION WITH SURFACE ROUGHNESS AS INDICATED.

NOTES:

1. SEE SHEET 9 FOR BREAKDOWN OF ALLOY CHEMISTRIES AND MELT TYPE.



TITLE		
TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME		
SPECIFICATION	SHEET	REV
SP-9200	1/9	BY

ASTM COAXIAL TUBE PART NUMBER MATRIX

CTXX

-

XX

INNER PROCESS CODE

CT1A = PER SP-9204 (101)
CT2A = PER SP-9206 (201)
CT3A = PER SP-9223 (301)
CT4A = PER SP-9220 (401)
CTMC = PER SP-9207 (222)

OUTER ALLOY (SEE NOTE 1)

0S = 316L 0S SEAMLESS
0W = 316L 0W WELDED
1S = 304L SEAMLESS
1W = 304L WELDED
2S = 304L SEAMLESS
2W = 304L WELDED
AW = 304 WELDED
NS = 316L SEAMLESS (ASTM STD)
NW = 316L WELDED (ASTM STD)
RS = 316L SEAMLESS
RW = 316L WELDED
VS = 316L SEAMLESS VIM/VAR

- **XX**

INNER ALLOY (SEE NOTE 1)

0S (or BLANK) = 316L SEAMLESS
0W = 316L WELDED
2S = 304L SEAMLESS
2W = 304L WELDED
3S = 304L SEAMLESS
3W = 304L WELDED
BS = 316L SEAMLESS, VOD/VAR
HS = UNS N06022 ALLOY
KS = 316L SEAMLESS VIM/VAR
NS = 316L SEAMLESS (ASTM STD)
NW = 316L WELDED (ASTM STD)
QS = 316L SEAMLESS
QW = 316L WELDED
RS = 316L SEAMLESS
RW = 316L WELDED
VS = 316L SEAMLESS VIM/VAR

- **XXXXX (XXXX)**

SIZE CODE - INNER (SEE NOTE 3)

.25	.25	= .25" DIA
.25M	.25M	= .25" DIA (1MM WALL)
.375	.38	= .375" DIA
.375M	.38M	= .375" DIA (1MM WALL)
.5	.5	= .5" DIA
.75	.75	= .75" DIA
.75M	.75M	= .75" DIA (.049" WALL)
1	1	= 1" DIA
1.5	1.5	= 1.5" DIA
2	2	= 2" DIA

USED FOR 20-FOOT AND 6-METER LENGTH TUBES	USED ONLY FOR 4-METER LENGTH TUBES
--	--

X4

**USED
 ONLY FOR
 4-METER
 LENGTH
 TUBES**

- **XX**

SURFACE FINISH & VISUALS

USED ONLY FOR 401 PROCESS CODE
A5 = 5µIn Ra Max, Superior Visuals
A7 = 7µIn Ra Max, Superior Visuals
B0 = 10µIn Ra Max, Standard Visuals
C0 = 10µIn Ra, Relaxed Visuals

NOTES:

- SEE SHEET 9 FOR BREAKDOWN OF ALLOY CHEMISTRIES AND MELT TYPE.
- DECIMALS MAY BE OMITTED AND REPLACED WITH ZEROS IN SOME PROCESSES (I.E. CT4A-S-VS-XXXX-XX).
- SHADED COLUMNS USED ONLY FOR 4-METER LENGTH TUBES.
- PROCESS CODES ARE NOT AVAILABLE FOR ALL ALLOY AND SIZE CODES. PLEASE CONTACT VALEX FOR ITEM NUMBER AVAILABILITY.



TITLE TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME		
SPECIFICATION SP-9200	SHEET 2/9	REV BY

SINGLE WALL FITTING PART NUMBER MATRIX - ASTM

XX

PROCESS / ALLOY (SEE NOTE 1)

B = SP-9206 (201) 0S/0W/A4 (316L)
D = SP-9206 (201) 2S/2W (304L)
E = SP-9220 (401) 0S/0W/A4 (316L)
H = SP-9207 (222) HS (N06022)
Q = SP-9220 (401) VS (316L)
RB = SP-9206 (201) RS/RW (316L)
RE = SP-9220 (401) RS/RW (316L)
Y = SP-9220 (401) KS (316L)
YB = SP-9206 (201) KS (316L)

XXXX

CONFIGURATION CODE

2 = 90° ELBOW
2W = 90° ELBOW, WLD
2K = 45° ELBOW
2KW = 45° ELBOW, WLD
7 = EQUAL TEE
7W = EQUAL TEE, WLD
7ST = EQUAL TEE, SHORT TANGENT
7STW = EQUAL TEE, SHORT TANGENT, WLD
7R = REDUCING TEE
7RW = REDUCING TEE, WLD
7RWW = REDUCING TEE, WLD X WLD
9 = EQUAL CROSS
9R = REDUCING CROSS
16 = END CAP
16W = END CAP, WLD
31 = CONCENTRIC REDUCER
31(S) = CONCENTRIC REDUCER, SHORT TYPE
31W = CONCENTRIC REDUCER, WLD X SMLS
31WW = CONCENTRIC REDUCER, WLD X WLD
32 = ECCENTRIC REDUCER
32W = ECCENTRIC REDUCER, WLD X SMLS
32WW = ECCENTRIC REDUCER, WLD X WLD
38 = WELD NECK FLANGE W/ SMLS TUBE
38W = WELD NECK FLANGE W/ WLD TUBE
38SE = TUBE STUB END, SHORT
38LE = TUBE STUB END, LONG
38PF = TUBE PLATE FLANGE

-

XXXXX

SIZE CODE (SEE NOTE 2)

.25 = 1/4" O.D. X .035" WALL
.25M = 1/4" O.D. X .039" (1MM) WALL
.375 = 3/8" O.D. X .035" WALL
.375M = 3/8" O.D. X .039" (1MM) WALL
.5 = 1/2" O.D. X .049" WALL
.75 = 3/4" O.D. X .065" WALL
.75M = 3/4" O.D. X .049" WALL
1 = 1" O.D. X .065" WALL
1.5 = 1-1/2" O.D. X .065" WALL
2 = 2" O.D. X .065" WALL
2.5 = 2-1/2" O.D. X .065" WALL

3 = 3" O.D. X .065" WALL
4 = 4" O.D. X .083" WALL
6 = 6" O.D. X .109" WALL

x(XXXXXX)

USED ONLY FOR
REDUCING FITTINGS

REFER TO "SIZE"
CODE IF APPLICABLE

- XX

SURFACE FINISH & VISUALS

USED ONLY FOR 401 PROCESS CODE

A5 = 5µIn Ra Max, Superior Visuals
A7 = 7µIn Ra Max, Superior Visuals
B0 = 10µIn Ra Max, Standard Visuals
C0 = 10µIn Ra, Relaxed Visuals

Single Wall Fitting Example 1:

E2-5-B0

VALEX 401 SPEC, 90° ELBOW, 1/2" O.D. X .049" WALL,
STANDARD VISUALS, 10 Ra MAX, 0S CHEMISTRY

Single Wall Fitting Example 2:

Y7R-1X.5-A5

VALEX 401 SPEC, REDUCING TEE, 1"(.065" WALL) X 1/2" (.049" WALL),
SUPERIOR VISUALS, 5Ra MAX, KS CHEMISTRY

COAXIAL FITTING PART NUMBER MATRIX - ASTM

XX

INNER PROCESS / ALLOY (SEE NOTE 1)

C = SP-9220 (401) 0S/0W (316L)
CB = SP-9206 (201) 0S/0W (316L)
HC = SP-9207 (222) HS (N06022)
R = SP-9220 (401) VS (316L)
RC = SP-9220 (401) RS/RW (316L)
W = SP-9220 (401) KS (316L)
WB = SP-9206 (201) KS (316L)

X

OUTER ALLOY (SEE NOTE 1)

BLANK = 0S/0W (316L)
2 = 2S/2W (304L)
A = AW (304)
N = NS (316L)
R = RS/RW (316L)
V = VS (316L)

XXXX

CONFIGURATION CODE

2 = 90° ELBOW
2K = 45° ELBOW
7 = EQUAL TEE
7R = REDUCING TEE
7P = COAX PURGE TEE, MALE
7PF = COAX PURGE TEE, FEMALE
7PFS = COAX PURGE TEE W/ FS, MALE
12 = COAX SLEEVE
12E = COAX SLEEVE (4=4", 5=5", 6=6")
14FS = COAX FS WELD GLAND, FEMALE
15FS = COAX FS WELD GLAND, MALE
16 = COAX TERMINATOR
17BH = COAX BULKHEAD FITTING
31 = CONCENTRIC REDUCER

-

XXXXX

SIZE CODE (SEE NOTE 2)

.25 = 1/4" O.D. X .035" WALL INNER TUBE
 1/2" O.D. X .049" WALL OUTER TUBE
.25M = 1/4" O.D. X .039" (1MM) WALL INNER TUBE
 1/2" O.D. X .049" WALL OUTER TUBE
.375 = 3/8" O.D. X .035" WALL INNER TUBE
 5/8" O.D. X .049" WALL OUTER TUBE
.375M = 3/8" O.D. X .039" (1MM) WALL INNER TUBE
 5/8" O.D. X .049" WALL OUTER TUBE
.5 = 1/2" O.D. X .049" WALL INNER TUBE
 3/4" O.D. X .065" WALL OUTER TUBE
.75 = 3/4" O.D. X .065" WALL INNER TUBE
 1" O.D. X .065" WALL OUTER TUBE
.75M = 3/4" O.D. X .049" WALL INNER TUBE
 1" O.D. X .065" WALL OUTER TUBE
1 = 1" O.D. X .065" WALL INNER TUBE
 1-1/4" O.D. X .065" WALL OUTER TUBE
1.5 = 1.5" O.D. X .065" WALL INNER TUBE
 2" O.D. X .065" WALL OUTER TUBE
2 = 2" O.D. X .065" WALL INNER TUBE
 2-1/2" O.D. X .065" WALL OUTER TUBE

x(XXXXXX)

USED ONLY FOR
REDUCING FITTINGS

REFER TO "SIZE"
CODE IF APPLICABLE

- XX

SURFACE FINISH & VISUALS

USED ONLY FOR 401 PROCESS CODE

A5 = 5µIn Ra Max, Superior Visuals
A7 = 7µIn Ra Max, Superior Visuals
B0 = 10µIn Ra Max, Standard Visuals
C0 = 10µIn Ra, Relaxed Visuals

Coax Fitting Example:

C2-.25M-A5

VALEX 401 SPEC, COAXIAL 90° ELBOW, 1/4" (1MM WALL) INNER,
1/2" (.049" WALL) OUTER, SUPERIOR VISUALS, 5 Ra MAX, 0S INNER
CHEMISTRY, 0S OUTER CHEMISTRY

NOTES:

- SEE SHEET 9 FOR BREAKDOWN OF ALLOY CHEMISTRIES AND MELT TYPE.
- SHADED COLUMNS USED ONLY FOR REDUCING FITTINGS.
- PROCESS CODES ARE NOT AVAILABLE FOR ALL ALLOY AND SIZE CODES. PLEASE CONTACT VALEX FOR ITEM NUMBER AVAILABILITY.



TITLE TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME		
SPECIFICATION SP-9200	SHEET 3/9	REV BY

JIS PIPE PART NUMBER MATRIX

PXX	-	XX	-	XXXX (XXX)	X	X4	-	XXX	XX
<u>PROCESS CODE</u>		<u>ALLOY CODE (SEE NOTE 1)</u>		<u>SIZE CODE (SEE NOTE 2)</u>	<u>END TYPE CODE</u>	USED ONLY FOR 4-METER LENGTH PIPES		<u>SCHEDULE CODE</u>	<u>SURFACE FINISH & VISUALS</u>
P1A = PER SP-9204 (101)		1S = 304L SEAMLESS (JIS STD)		0008 008 = 8A PIPE	A = SQUARE			6M PIPE	USED ONLY FOR 401 PROCESS CODE
P2A = PER SP-9206 (201)		1W = 304L WELDED (JIS STD)		0010 010 = 10A PIPE	B = 32.5° BEVELED			05S = JIS SCH. 5	A5 = 5µIn Ra Max, Superior Visuals
P4A = PER SP-9220 (401)		AS = 304 SEAMLESS		0015 015 = 15A PIPE	C = SQUARE, +10% / -15% WALL			10S = JIS SCH. 10	A7 = 7µIn Ra Max, Superior Visuals
P4O = PER SP-9220 & O.D. POLISH (401)		AW = 304 WELDED		0020 020 = 20A PIPE	D = 32.5° BEVELED, +10% / -15% WALL			4M PIPE	B0 = 10µIn Ra Max, Standard Visuals
P4R = PER SP-9220 & I.D./O.D. POLISH (401)		BS = 316L SEAMLESS, VOD/VAR		0025 025 = 25A PIPE	E = SQUARE, LOW Ti			05 = JIS SCH. 5	C0 = 10µIn Ra, Relaxed Visuals
P2S = PER SP-9206 & I.D./O.D. POLISH (201)		NS = 316L SEAMLESS (JIS STD)		0032 032 = 32A PIPE	F = 32.5° BEVELED, LOW Ti			10 = JIS SCH. 10	
		NW = 316L WELDED (JIS STD)		0040 040 = 40A PIPE	G = SQUARE, LOW Ti, +10% / -15% WALL				
		RS = 316L SEAMLESS		0050 050 = 50A PIPE	H = 32.5° BEVELED, LOW Ti, +10% / -15% WALL				
		RW = 316L WELDED		0065 065 = 65A PIPE	I = SQUARE, P1A BA				
				0080 080 = 80A PIPE	J = SQUARE, +UNSPECIFIED / -20% WALL				
				0090 090 = 90A PIPE	K = 32.5° BEVELED, +UNSPECIFIED / -20% WALL				
				0100 100 = 100A PIPE					
				0125 125 = 125A PIPE					
				0150 150 = 150A PIPE					
				0200 200 = 200A PIPE					
				0250 250 = 250A PIPE					
				0300 300 = 300A PIPE					
				0350 350 = 350A PIPE					
				0400 400 = 400A PIPE					
				0450 450 = 450A PIPE					
				0500 500 = 500A PIPE					
				0550 550 = 550A PIPE					
				0600 600 = 600A PIPE					
				0650 650 = 650A PIPE					
				0700 700 = 700A PIPE					
				0750 750 = 750A PIPE					
				0800 800 = 800A PIPE					

USED FOR 20-FOOT AND 6-METER LENGTH PIPES	USED ONLY FOR 4-METER LENGTH PIPES
---	------------------------------------

- NOTES:**
- SEE SHEET 9 FOR BREAKDOWN OF ALLOY CHEMISTRIES AND MELT TYPE.
 - SHADED COLUMNS USED ONLY FOR 4-METER LENGTH PIPES.



TITLE		
TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME		
SPECIFICATION	SHEET	REV
SP-9200	4/9	BY

JIS COAXIAL PIPE PART NUMBER MATRIX

CPXX

- XX

- XX

- XXX (XX)

X

X4

- XX

INNER PROCESS CODE

CP1A = PER SP-9204 (101)
CP2A = PER SP-9206 (201)
CP4A = PER SP-9220 (401)

OUTER ALLOY (SEE NOTE 1)

AS = 304 SEAMLESS
AW = 304 WELDED
NS = 316L SEAMLESS (JIS STD)
NW = 316L WELDED (JIS STD)
RS = 316L SEAMLESS
RW = 316L WELDED

INNER ALLOY (SEE NOTE 1)

1S = 304L SEAMLESS (JIS STD)
1W = 304L WELDED (JIS STD)
NS = 316L SEAMLESS (JIS STD)
NW = 316L WELDED (JIS STD)
RS = 316L SEAMLESS
RW = 316L WELDED

SIZE CODE - INNER (SEE NOTE 2)

008 **08** = 8A PIPE, SCH. 5
010 **10** = 10A PIPE, SCH. 5
015 **15** = 15A PIPE, SCH. 5
020 **20** = 20A PIPE, SCH. 5
025 **25** = 25A PIPE, SCH. 5
032 **32** = 32A PIPE, SCH. 5

USED FOR 20-FOOT AND 6- METER LENGTH PIPES	USED ONLY FOR 4-METER LENGTH PIPES
---	--

END TYPE CODE

A = SQUARE
B = 32.5° BEVELED
C = SQUARE,
+10% / -15% WALL
D = 32.5° BEVELED,
+10% / -15% WALL
J = SQUARE,
+UNSPECIFIED / -20% WALL
K = 32.5° BEVELED,
+UNSPECIFIED / -20% WALL

USED
ONLY FOR
4-METER
LENGTH
PIPES

SURFACE FINISH & VISUALS

USED ONLY FOR 401 PROCESS CODE

A5 = 5µIn Ra Max, Superior Visuals
A7 = 7µIn Ra Max, Superior Visuals
B0 = 10µIn Ra Max, Standard Visuals
C0 = 10µIn Ra, Relaxed Visuals

NOTES:

- SEE SHEET 9 FOR BREAKDOWN OF ALLOY CHEMISTRIES AND MELT TYPE.
- SHADED COLUMNS USED ONLY FOR 4-METER LENGTH PIPES.
- PROCESS CODES ARE NOT AVAILABLE FOR ALL ALLOY AND SIZE CODES. PLEASE CONTACT VALEX FOR ITEM NUMBER AVAILABILITY.



TITLE		
TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME		
SPECIFICATION	SHEET	REV
SP-9200	5/9	BY

SINGLE WALL FITTING PART NUMBER MATRIX - JIS

XX

PROCESS / ALLOY (SEE NOTE 1)
JA = SP-9204 (101) AS/AW (304)
JB = SP-9206 (201) RS/RW (316L)
JD = SP-9206 (201) AS/AW (304)
JE = SP-9220 (401) RS/RW (316L)
JF = SP-9206 (201) NS/NW (316L)
JG = SP-9206 (201) QS/QW (316L)
JH = SP-9220 (401) NS/NW (316L)
JJ = SP-9220 (401) QS/QW (316L)

XXXXX

CONFIGURATION CODE
2(S) = 90° ELBOW, SHORT RADIUS
2(L) = 90° ELBOW, LONG RADIUS
2W(S) = 90° ELBOW, SHORT RADIUS, WLD
2W(L) = 90° ELBOW, LONG RADIUS, WLD
2K = 45° ELBOW
2KW = 45° ELBOW, WLD
2(SS) = 90° ELBOW, SHORT, JIS B2312
2(LS) = 90° ELBOW, LONG, JIS B2312
2W(SS) = 90° ELBOW, SHORT, JIS B2313, WLD
2W(LS) = 90° ELBOW, LONG, JIS B2313, WLD
2K(LS) = 45° ELBOW, LONG, JIS B2312
2KW(LS) = 45° ELBOW, LONG, JIS B2313, WLD
7 = EQUAL TEE
7W = EQUAL TEE, WLD
7R = REDUCING TEE
7RW = REDUCING TEE, WLD
7RWW = REDUCING TEE, WLD X WLD
7RN = REDUCING TEE, NO RISER
7S = EQUAL TEE, JIS B2312 / B2313
7RS = REDUCING TEE, JIS B2312 / B2313
7RSN = REDUCING TEE, JIS B2312 / B2313, NO RISER
16 = END CAP
16W = END CAP, WLD
31 = CONC REDUCER
31W = CONC REDUCER, WLD X SMLS
31WW = CONC REDUCER, WLD X WLD
31FF = CONC REDUCER, FORMED, NO TANGENT
31FS = CONC REDUCER, NO TANGENT LARGE, SMALL TANGENT SMLS
31SF = CONC REDUCER, LARGE TANGENT SMLS, NO TANGENT SMALL
31FW = CONC REDUCER, NO TANGENT LARGE, SMALL TANGENT WLD
31WF = CONC REDUCER, LARGE TANGENT WLD, NO TANGENT SMALL
33 = CONC REDUCER, CAP TYPE
33FF = CAP REDUCER, FORMED, NO TANGENT
33FS = CAP REDUCER, NO TANGENT LARGE, SMALL TANGENT SMLS
33SF = CAP REDUCER, LARGE TANGENT SMLS, NO TANGENT SMALL
33FW = CAP REDUCER, NO TANGENT LARGE, SMALL TANGENT WLD
33WF = CAP REDUCER, LARGE TANGENT WLD, NO TANGENT SMALL
38BF = BLANK FLANGE
38L = LAP JOINT STUB END, JIS
38LJ = LAP JOINT FLANGE
38WN = WELD NECK FLANGE

- XXXX

SIZE CODE (SEE NOTE 2)
8 = 8A PIPE
10 = 10A PIPE
15 = 15A PIPE
20 = 20A PIPE
25 = 25A PIPE
32 = 32A PIPE
40 = 40A PIPE
50 = 50A PIPE
65 = 65A PIPE
80 = 80A PIPE
90 = 90A PIPE
100 = 100A PIPE
125 = 125A PIPE
150 = 150A PIPE
200 = 200A PIPE
250 = 250A PIPE
300 = 300A PIPE
350 = 350A PIPE
400 = 400A PIPE
450 = 450A PIPE
500 = 500A PIPE
550 = 550A PIPE
600 = 600A PIPE
650 = 650A PIPE
700 = 700A PIPE
750 = 750A PIPE
800 = 800A PIPE
.25 = 1/4" O.D. X .035" WALL
.25M = 1/4" O.D. X .039" (1MM) WALL
.38 = 3/8" O.D. X .035" WALL
.38M = 3/8" O.D. X .039" (1MM) WALL
.5 = 1/2" O.D. X .049" WALL
.75 = 3/4" O.D. X .065" WALL
.75M = 3/4" O.D. X .049" WALL
1 = 1" O.D. X .065" WALL
1.5 = 1-1/2" O.D. X .065" WALL
2 = 2" O.D. X .065" WALL
2.5 = 2-1/2" O.D. X .065" WALL
3 = 3" O.D. X .065" WALL
4 = 4" O.D. X .083" WALL
6 = 6" O.D. X .109" WALL

X

END TYPE CODE
A = SQUARE
B = 32.5° BEVELED
C = SQUARE, +10% / -15% WALL
D = 32.5° BEVELED, +10% / -15% WALL
E = SQUARE, LOW TI
F = 32.5° BEVELED, LOW TI
G = SQUARE, LOW TI, +10% / -15% WALL
H = 32.5° BEVELED, LOW TI, +10% / -15% WALL
J = SQUARE, +UNSPECIFIED / -20% WALL
K = 32.5° BEVELED, +UNSPECIFIED / -20% WALL

FLANGE TYPE CODE

S = JIS 5K
T = JIS 10K

X

SCHEDULE
BLANK = 5S
T = 10S

FACE-TYPE

1 = FULL FACE
2 = RAISED FACE
3 = GROOVED FACE

FLANGE TYPE / SCHEDULE
(LAP JOINT STUB END ONLY)

BLANK = JIS 5K / 5S
V = JIS 10K / 5S

x(XXXX)

**USED ONLY FOR
REDUCING FITTINGS**

**REFER TO "SIZE", "END
TYPE" & "SCHEDULE"
CODES IF APPLICABLE**

- XX

SURFACE FINISH & VISUALS
USED ONLY FOR 401 PROCESS CODE
A5 = 5µIn Ra Max, Superior Visuals
A7 = 7µIn Ra Max, Superior Visuals
B0 = 10µIn Ra Max, Standard Visuals
C0 = 10µIn Ra, Relaxed Visuals

Single Wall Fitting Example 1:

JE2S-150AT-B0
 VALEX 401 SPEC, 90° ELBOW (SHORT TYPE), 150A PIPE,
 SCHEDULE 10, SQUARED ENDS, STANDARD VISUALS, 10 Ra MAX

Single Wall Fitting Example 2:

JB7R-80AX20A
 VALEX 201 SPEC, REDUCING TEE, 80A PIPE X 20A PIPE,
 SCHEDULE 5, SQUARED ENDS, NO EP.

COAXIAL FITTING PART NUMBER MATRIX - JIS

XX

INNER PROCESS / ALLOY (SEE NOTE 1)
JC = SP-9220 (401) RS/RW (316L)
JK = SP-9206 (201) NS/NW (316L)
JL = SP-9206 (201) QS/QW (316L)
JM = SP-9220 (401) NS/NW (316L)
JN = SP-9220 (401) QS/QW (316L)

X

OUTER ALLOY (SEE NOTE 1)
1 = 1S/1W (304L)
A = AW (304)
N = NS (316L)
R = RS/RW (316L)

XXXXX

CONFIGURATION CODE
2 = 90° ELBOW
2K = 45° ELBOW
7 = EQUAL TEE
7R = REDUCING TEE
7P = COAX PURGE TEE, MALE
7PF = COAX PURGE TEE, FEMALE
7PFS = COAX PURGE TEE W/ FS, MALE
12 = COAX SLEEVE
14FS = COAX FS WELD GLAND, FEMALE
15FS = COAX FS WELD GLAND, MALE
16 = COAX TERMINATOR
17BH = COAX BULKHEAD FITTING
31 = CONCENTRIC REDUCER

- XXXX

SIZE CODE (SEE NOTE 2)
10 = 10A X SCHEDULE 5 INNER PIPE
 20A X SCHEDULE 5 OUTER PIPE
15 = 15A X SCHEDULE 5 INNER PIPE
 25A X SCHEDULE 5 OUTER PIPE
20 = 20A X SCHEDULE 5 INNER PIPE
 32A X SCHEDULE 5 OUTER PIPE
25 = 25A X SCHEDULE 5 INNER PIPE
 40A X SCHEDULE 5 OUTER PIPE
32 = 32A X SCHEDULE 5 INNER PIPE
 40A X SCHEDULE 5 OUTER PIPE

X

END TYPE CODE
A = SQUARE
B = 32.5° BEVELED
C = SQUARE, +10% / -15% WALL
D = 32.5° BEVELED, +10% / -15% WALL
J = SQUARE, +UNSPECIFIED / -20% WALL
K = 32.5° BEVELED, +UNSPECIFIED / -20% WALL

x(XXX)

**USED ONLY FOR
REDUCING FITTINGS**

**REFER TO "SIZE", "END
TYPE" CODES IF
APPLICABLE**

- XX


SURFACE FINISH & VISUALS
USED ONLY FOR 401 PROCESS CODE
A5 = 5µIn Ra Max, Superior Visuals
A7 = 7µIn Ra Max, Superior Visuals
B0 = 10µIn Ra Max, Standard Visuals
C0 = 10µIn Ra, Relaxed Visuals

Coax Fitting Example:

JC2-25A-A5
 VALEX 401 SPEC, COAXIAL 90° ELBOW, 25A (SCH 5) INNER,
 40A (SCH 5) OUTER, SQUARED ENDS, SUPERIOR VISUALS, 5 Ra MAX,
 RS INNER CHEMISTRY, 0W OUTER CHEMISTRY

NOTES:

- SEE SHEET 9 FOR BREAKDOWN OF ALLOY CHEMISTRIES AND MELT TYPE.
- SHADED COLUMNS USED ONLY FOR REDUCING FITTINGS.
- PROCESS CODES ARE NOT AVAILABLE FOR ALL ALLOY AND SIZE CODES. PLEASE CONTACT VALEX FOR ITEM NUMBER AVAILABILITY.

 www.valex.com		
TITLE TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME		
SPECIFICATION SP-9200	SHEET 6/9	REV BY

TUBE & PIPE PART NUMBER MATRIX - CFOS AND LDEP PRODUCT LINES

XX

- XXXXX

X

X

XXXX

- XXXX

PROCESS / ALLOY (SEE NOTE 1)

CS = 316L SEAMLESS
CW = 316L WELDED
DS = 304L SEAMLESS
DW = 304L WELDED
AS = 304 SEAMLESS
AW = 304 WELDED

SIZE CODE:

ASTM TUBE

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

JIS & NPS PIPE

25 = DN 25 (JIS 25A)
32 = DN 32 (JIS 32A)
40 = DN 40 (JIS 40A)
50 = DN 50 (NPS 2 / JIS 50A)
65 = DN 65 (NPS 2-1/2 / JIS 65A)
80 = DN 80 (NPS 3 / JIS 80A)
90 = DN 90 (NPS 3-1/2 / JIS 90A)
100 = DN 100 (NPS 4 / JIS 100A)
125 = DN 125 (NPS 5 / JIS 125A)
150 = DN 150 (NPS 6 / JIS 150A)
200 = DN 200 (NPS 8 / JIS 200A)
250 = DN 250 (NPS 10 / JIS 250A)
300 = DN 300 (NPS 12 / JIS 300A)
350 = DN 350 (NPS 14 / JIS 350A)
400 = DN 400 (NPS 16 / JIS 400A)
450 = DN 450 (NPS 18 / JIS 450A)
500 = DN 500 (NPS 20 / JIS 500A)
550 = DN 550 (NPS 22 / JIS 550A)
600 = DN 600 (NPS 24 / JIS 600A)
650 = DN 650 (JIS 650A)
700 = DN 700 (JIS 700A)
750 = DN 750 (NPS 30 / JIS 750A)
800 = DN 800 (JIS 800A)

END TYPE CODE:

ASTM TUBE

BLANK = SQUARE

JIS PIPE:

A = SQUARE
B = BEVELED
J = SQUARE,
 -20% WALL
K = BEVELED,
 -20% WALL

NPS PIPE:

L = SQUARE
M = BEVELED
N = SQUARE,
 -20% WALL
P = BEVELED,
 -20% WALL

WALL CODE

TUBE WALL

.035 = .035" THICK
.039 = .039" THICK
.049 = .049" THICK
.065 = .065" THICK
.083 = .083" THICK
.109 = .109" THICK
.120 = .120" THICK

PIPE SCHEDULE

5S = SCH. 5
10S = SCH. 10
40S = SCH. 40
80S = SCH. 80

FINISH CODE

AP = O.D.=AP, I.D.=AP
ODMP = O.D.=MP, I.D.=AP
BA = O.D.=BA, I.D.=BA 200Ra MAX
BA40 = O.D.=BA, I.D.=40 Ra BA
EP = O.D.=BA, I.D.=EP 20 Ra Ave / 25 Ra MAX
ID40 = O.D.=AP, I.D.=40 Ra BA
IDMP = O.D.=AP, I.D.=BA 200Ra MAX

NPS Pipe Example:

DW-250LX20S-BA40

VALEX CFOS SPEC PIPE, 304L WELDED, NPS 10 (DN 250) X SCH 20, BA FINISH OPTION WITH 40 Ra, SQUARED ENDS

ASTM Tube Example:

CS-1/2X.049-BA

VALEX CFOS SPEC TUBE, 316L SEAMLESS, 1/2" O.D. X .049" WALL, BA FINISH OPTION, SQUARED ENDS

JIS Pipe Example:

AW-250BX10S-AP

VALEX CFOS SPEC PIPE, 304 WELDED, JIS SIZE 250A X SCH 10, AP FINISH OPTION, BEVELED ENDS

NOTES:

1. PER VALEX SPECIFICATION SP-9234 (CFOS) AND SP-9235 (LDEP).
2. PROCESS CODES ARE NOT AVAILABLE FOR ALL SIZE AND FINISH CODES. PLEASE CONTACT VALEX FOR ITEM NUMBER AVAILABILITY.



www.valex.com

TITLE		
TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME		
SPECIFICATION	SHEET	REV.
SP-9200	7/9	BY

FITTING PART NUMBER MATRIX - CFOS AND LDEP PRODUCT LINES

XX

ALLOY
(SEE NOTE 1)
AF = 304
CF = 316L
DF = 304L

XXXXX

CONFIGURATION CODE
 2S = 90° ELBOW, SHORT RADIUS
 2L = 90° ELBOW, LONG RADIUS
 2WS = 90° ELBOW, SHORT RADIUS, WLD
 2WL = 90° ELBOW, LONG RADIUS, WLD
 2K = 45° ELBOW
 2KW = 45° ELBOW, WLD
 2SS = 90° ELBOW, SHORT, ASME B16.9 / JIS B2312
 2LS = 90° ELBOW, LONG, ASME B16.9 / JIS B2312
 2WSS = 90° ELBOW, SHORT, ASME B16.9 / B2313, WLD
 2WLS = 90° ELBOW, LONG, ASME B16.9 / B2313, WLD
 2KLS = 45° ELBOW, LONG, ASME B16.9 / JIS B2312
 2KWLS = 45° ELBOW, LONG, ASME B16.9 / B2313, WLD
 7 = EQUAL TEE
 7W = EQUAL TEE, WLD
 7ST = EQUAL TEE, SHORT TANGENT
 7STW = EQUAL TEE, SHORT TANGENT, WLD
 7R = REDUCING TEE
 7RW = REDUCING TEE, WLD
 7RWW = REDUCING TEE, WLD X WLD
 7S = EQUAL TEE, JIS B2312 / B2313
 7RS = REDUCING TEE, JIS B2312 / B2313
 9 = EQUAL CROSS
 9R = REDUCING CROSS
 16 = END CAP
 16W = END CAP, WLD
 31 = CONC REDUCER
 31T = CONC REDUCER, TRANSITIONAL
 31W = CONC REDUCER, WLD X SMLS
 31WW = CONC REDUCER, WLD X WLD
 31FF = CONC REDUCER, FORMED
 32 = ECCENTRIC REDUCER
 33 = CONC REDUCER, CAP TYPE
 38BF = BLIND / BLANK FLANGE
 38L = LAP JOINT STUB END, JIS
 38LA = LAP JOINT STUB END, LONG PATTERN, TYPE "A", ASME B16.9
 38SA = LAP JOINT STUB END, SHORT PATTERN, TYPE "A", ASME B16.9
 38LJ = LAP JOINT FLANGE
 38WN = WELD NECK FLANGE

NOTES:

- PER VALEX SPECIFICATION SP-9234 (CFOS) AND SP-9235 (LDEP).
- SHADED COLUMNS USED ONLY FOR REDUCING FITTINGS.
- PROCESS CODES ARE NOT AVAILABLE FOR ALL ALLOY AND SIZE CODES. PLEASE CONTACT VALEX FOR ITEM NUMBER AVAILABILITY.

- XX

SIZE CODE (SEE NOTE 2)

ASTM TUBE	JIS & NPS PIPE
04 = .25" DIA	70 = DN 15 (NPS 1/2 / JIS 15A)
06 = .375" DIA	71 = DN 20 (NPS 3/4 / JIS 20A)
08 = .5" DIA	72 = DN 25 (NPS 1 / JIS 25A)
12 = .75" DIA	73 = DN 32 (NPS 1-1/4 / JIS 32A)
16 = 1" DIA	74 = DN 40 (NPS 1-1/2 / JIS 40A)
24 = 1.5" DIA	75 = DN 50 (NPS 2 / JIS 50A)
32 = 2" DIA	76 = DN 65 (NPS 2-1/2 / JIS 65A)
40 = 2.5" DIA	77 = DN 80 (NPS 3 / JIS 80A)
48 = 3" DIA	78 = DN 90 (NPS 3-1/2 / JIS 90A)
64 = 4" DIA	79 = DN 100 (NPS 4 / JIS 100A)
96 = 6" DIA	80 = DN 125 (NPS 5 / JIS 125A)
	81 = DN 150 (NPS 6 / JIS 150A)
	82 = DN 200 (NPS 8 / JIS 200A)
	83 = DN 250 (NPS 10 / JIS 250A)
	84 = DN 300 (NPS 12 / JIS 300A)
	85 = DN 350 (NPS 14 / JIS 350A)
	86 = DN 400 (NPS 16 / JIS 400A)
	87 = DN 450 (NPS 18 / JIS 450A)
	88 = DN 500 (NPS 20 / JIS 500A)
	89 = DN 550 (NPS 22 / JIS 550A)
	90 = DN 600 (NPS 24 / JIS 600A)
	91 = DN 650 (JIS 650A)
	92 = DN 700 (JIS 700A)
	93 = DN 750 (JIS 750A)
	94 = DN 800 (JIS 800A)

Fitting Example 1:

AF7RWW-82MT75MT-2
VALEX CFOS SPEC, REDUCING TEE, NPS 8" X NPS 2" PIPE, SCHEDULE 10, BEVELED ENDS, BA GRADE

Fitting Example 2:

CF2KW-79M-3
VALEX CFOS SPEC, 45° ELBOW, NPS 4" PIPE, SCHEDULE 5, BA GRADE, 40 Ra

X

TYPE CODE

ASTM TUBE:
BLANK = SQUARE

JIS PIPE:
A = SQUARE
B = BEVELED
J = SQUARE, -20% WALL
K = BEVELED, -20% WALL

NPS PIPE:
L = SQUARE
M = BEVELED
N = SQUARE, -20% WALL
P = BEVELED, -20% WALL

FLANGE TYPE:
Q = B16.5, CLASS 150
R = B16.5, CLASS 300
S = JIS B2220, 5K
T = JIS B2220, 10K

X

WALL CODE

ASTM TUBE:
B = .035" WALL
C = .039" WALL
D = .049" WALL
F = .065" WALL
G = .083" WALL
J = .109" WALL

JIS & NPS PIPE:
BLANK = 5S
T = 10S
V = 40S
W = 80S

FACE-TYPE (FLANGE ONLY):
1 = FLAT / FULL FACE
2 = RAISED FACE
3 = GROOVED FACE

(XXXX)

USED ONLY FOR REDUCING FITTINGS
REFER TO "SIZE", "TYPE" & "WALL" CODES IF APPLICABLE

- X

FINISH CODE

BLANK = NO FINISH REQUIREMENT
 1 = O.D.=AP, I.D.=AP
 2 = O.D.=BA, I.D.=BA 200 Ra MAX
 3 = O.D.=BA, I.D.=40 Ra BA
 4 = O.D.=BA, I.D.=EP 20 Ra Ave / 25 Ra MAX
 5 = O.D.=AP, I.D.=40 Ra BA
 6 = O.D.=AP, I.D.=BA 200 Ra MAX
 7 = O.D.=MP, I.D.=AP



TITLE TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME		
SPECIFICATION	SHEET	REV
SP-9200	8/9	BY

CHEMISTRY CODE MATRIX

Unit : wt%


Alloy Identifier	Fitting Identifier	Coax Fitting Identifier (Inner)	Seamless / Welded	Melt Type	Standard	Grade	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	Al	Fe	W	Co	V	N						
REFERENCE					ASTM A269	TP 304	0.080 max	1.00 max	2.00 max	0.045 max	0.030 max	8.0 - 11.0	18.0 - 20.0	-	-	-	-	-	-	-	-	-					
					ASTM A269	TP 304L	0.035 max ²	1.00 max	2.00 max	0.045 max	0.030 max	8.0 - 12.0	18.0 - 20.0	-	-	-	-	-	-	-	-	-	-	-	-		
					ASTM A269	TP 316L	0.035 max ²	1.00 max	2.00 max	0.045 max	0.030 max	10.0 - 15.0	16.0 - 18.0	2.00 - 3.00	-	-	-	-	-	-	-	-	-	-	-	-	
					ASTM A312	TP 304	0.080 max	1.00 max	2.00 max	0.045 max	0.030 max	8.0 - 11.0	18.0 - 20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
					ASTM A312	TP 304L	0.035 max	1.00 max	2.00 max	0.045 max	0.030 max	8.0 - 13.0	18.0 - 20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
					ASTM A312	TP 316L	0.035 max	1.00 max	2.00 max	0.045 max	0.030 max	10.0 - 14.0	16.0 - 18.0	2.00 - 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-
					ASTM A276 / A479	S31603 (316L)	0.030 max	1.00 max	2.00 max	0.045 max	0.030 max	10.0 - 14.0	16.0 - 18.0	2.00 - 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-
					ASTM A632	TP 304	0.080 max	0.75 max	2.00 max	0.045 max	0.030 max	8.0 - 11.0	18.0 - 20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					ASTM A632	TP 304L	0.030 max	0.75 max	2.00 max	0.045 max	0.030 max	8.0 - 13.0	18.0 - 20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					ASTM A632	TP 316L	0.030 max	1.00 max ³	2.00 max	0.045 max	0.030 max	10.0 - 15.0	16.0 - 18.0	2.00 - 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-
					ASTM A774	TP 304L	0.030 max	1.00 max	2.00 max	0.045 max	0.030 max	8.0 - 12.0	18.0 - 20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					ASTM A774	TP 316L	0.030 max	1.00 max	2.00 max	0.045 max	0.030 max	10.0 - 14.0	16.0 - 18.0	2.00 - 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-
					ASTM A778	TP304L	0.030 max	1.00 max	2.00 max	0.045 max	0.030 max	8.0 - 13.0	18.0 - 20.0	-	-	-	-	-	-	-	-	-	-	-	-	0.10 max	-
					ASTM B622	UNS N06022	0.015 max	0.08 max	0.50 max	0.02 max	0.020 max	remainder	20.0 - 22.5	12.5 - 14.5	-	-	2.0-6.0	2.5-3.5	2.5 max	0.35 max	-	-	-	-	-	-	-
					JIS G3459	SUS304TP	0.080 max	1.00 max	2.00 max	0.045 max	0.030 max	8.0 - 11.0	18.0 - 20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					JIS G3459	SUS304LTP	0.030 max	1.00 max	2.00 max	0.045 max	0.030 max	9.0 - 13.0	18.0 - 20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					JIS G3459	SUS316LTP	0.030 max	1.00 max	2.00 max	0.045 max	0.030 max	12.0 - 16.0	16.0 - 18.0	2.00 - 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-
					JIS G3468	SUS304	0.080 max	1.00 max	2.00 max	0.045 max	0.030 max	8.0 - 10.5	18.0 - 20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					JIS G3468	SUS304L	0.030 max	1.00 max	2.00 max	0.045 max	0.030 max	9.0 - 13.0	18.0 - 20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					JIS G3468	SUS316L	0.030 max	1.00 max	2.00 max	0.045 max	0.030 max	12.0 - 15.0	16.0 - 18.0	2.00 - 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-

Exceptions to Standard Chemistry

0S	E, B	C, CB	Seamless	AOD or VOD	A269 ¹	316L	-	-	-	-	0.005 - 0.012	-	-	-	-	-	-	-	-	-	-	-
0W	E, B	C, CB	Welded	AOD or VOD	A269 ¹	316L	-	-	-	-	0.005 - 0.017	-	-	-	-	-	-	-	-	-	-	-
1S	DF ⁴	-	Seamless	AOD or VOD	G3459 / G3468 / A312 / A269	304L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1W	DF ⁴	-	Welded	AOD or VOD	G3459 / G3468 / A312 / A269 / A778	304L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2S	D	-	Seamless	AOD or VOD	A269 ¹	304L	-	-	-	-	0.005 - 0.012	-	-	-	-	-	-	-	-	-	-	-
2W	D	-	Welded	AOD or VOD	A269 ¹	304L	-	-	-	-	0.005 - 0.017	-	-	-	-	-	-	-	-	-	-	-
3S	-	-	Seamless	AOD or VOD	A269 ¹ / A312	304L	-	-	-	-	0.010 max	-	-	-	-	-	-	-	-	-	-	-
3W	-	-	Welded	AOD or VOD	A269 ¹ / A312	304L	-	-	-	-	0.010 max	-	-	-	-	-	-	-	-	-	-	-
A4	E, B	C	N/A	AOD	A276 / A479	316L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS	AF, JD, JA	-	Seamless	AOD or VOD	G3459 / G3468 / A269 ¹ / A312	304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AW	AF, JD, JA	-	Welded	AOD or VOD	G3459 / G3468 / A269 ¹ / A312	304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BS	-	-	Seamless	VOD/VAR	G3459	316L	0.02 max	0.30 max	0.40 max	0.040 max	0.003 max	12.0 - 15.0	-	-	-	-	-	-	-	-	-	-
HS	H	HC	Seamless	AOD	B622	UNS N06022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KS	Y, YB	W, WB	Seamless	VIM/VAR	G3459 / A269 ¹	316L	0.02 max	0.20 max	0.05 max	0.040 max	0.002 max	14.5 - 16.0	-	2.20 - 3.00	0.15 max	0.010 max	-	-	-	-	-	-
NS	CF ⁴ , JF, JH	JK, JM	Seamless	AOD or VOD	G3459 / A269 ¹ / A312	316L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NW	CF ⁴ , JF, JH	JK, JM	Welded	AOD or VOD	G3459 / A269 ¹ / A312	316L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QS	JG, JJ	JL, JN	Seamless	AOD or VOD	A269 ¹ / A312	316L	-	-	-	-	0.010 max	-	-	-	-	-	-	-	-	-	-	-
QW	JG, JJ	JL, JN	Welded	AOD or VOD	A269 ¹ / A312	316L	-	-	-	-	0.010 max	-	-	-	-	-	-	-	-	-	-	-
RS	RE, RB, JE, JB	JC, RC	Seamless	AOD or VOD	G3459 / G3468 / A269 ¹	316L	0.025 max	0.60 max	0.80 max	0.040 max	0.005 max	12.0 - 15.0	-	-	-	-	-	-	-	-	-	-
RW	RE, RB, JE, JB	JC, RC	Welded	AOD or VOD	G3459 / G3468	316L	-	-	-	-	0.010 max	-	-	-	-	-	-	-	-	-	-	-
VS	Q	R	Seamless	VIM/VAR	A269 ¹	316L	0.02 max	0.20 max	0.05 max	0.040 max	0.002 max	14.5 - 16.0	-	2.20 - 3.00	0.15 max	0.010 max	-	-	-	-	-	-

NOTES:

- 1) For tube sizes 1/2" and greater, the ASTM reference is A269. For tube sizes less than 1/2", the ASTM reference is A632.
- 2) For tube sizes less than 1/2", a carbon maximum of 0.040% is allowed in ASTM A269 grades 304L and 316L.
- 3) For ASTM A632 welded 316L grade tubes, the maximum silicon allowed is 0.75%.
- 4) Special Pipe X Tube Fittings may have chemistry per A774 pipe connections.



Valex
www.valex.com

TITLE:
TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME

SPECIFICATION SP-9200	SHEET 9/9	REV BY
---------------------------------	---------------------	------------------