

ASTM TUBE PART NUMBER MATRIX

TXXX	-	XX	-	XXXXX (XXX)	X4	-	XXX	XX		
<u>PROCESS CODE</u>		<u>ALLOY CODE (SEE NOTE 1)</u>		<u>SIZE CODE (SEE NOTE 3)</u>			<u>WALL CODE</u>	<u>SURFACE FINISH & VISUALS</u>		
T1A = PER SP-9204 (101)		0S = 316L SEAMLESS		00125 .13 = .125" DIA	USED ONLY FOR 4-METER LENGTH TUBES		028 = .028" THICK	USED ONLY FOR 401 PROCESS CODE		
T2A = PER SP-9206 (201)		0W = 316L WELDED		00250 .25 = .25" DIA			035 = .035" THICK	A5 = 5µIn Ra Max, Superior Visuals		
T2I = PER CUSTOM SPEC		1S = 304L SEAMLESS		00375 .38 = .375" DIA			039 = .039" THICK	A7 = 7µIn Ra Max, Superior Visuals		
T3A = PER SP-9223 (301)		1W = 304L WELDED		00500 .50 = .5" DIA			049 = .049" THICK	B0 = 10µIn Ra Max, Standard Visuals		
T3B = PER SP-9223 BULK PK (301)		2S = 304L SEAMLESS		00750 .75 = .75" DIA			058 = .058" THICK	C0 = 10µIn Ra, Relaxed Visuals		
T3O = PER SP-9223 OEM (301)		2W = 304L WELDED		01000 1.0 = 1" DIA			065 = .065" THICK			
T3OB = PER SP-9223 OEM BULK PK (301)		3S = 304L SEAMLESS		01500 1.5 = 1.5" DIA			083 = .083" THICK	USED ONLY FOR 444 PROCESS CODE		
T4A = PER SP-9220 (401)		3W = 304L WELDED		02000 2.0 = 2" DIA			095 = .095" THICK	-A = 5µIn Ra Max		
T4B = PER SP-9220 BULK PK (401)		AS = 304 SEAMLESS		02500 2.5 = 2.5" DIA			109 = .109" THICK	-B = 10µIn Ra Max		
T4I = PER CUSTOM SPEC		AW = 304 WELDED		03000 3.0 = 3" DIA						
T4O = PER SP-9220 OEM (401)		BS = 316L SEAMLESS, VOD/VAR		04000 4.0 = 4" DIA						
T4R = PER SP-9220 & I.D./O.D. POLISH (401)		HS = UNS N06022 ALLOY		06000 6.0 = 6" DIA						
TMC = PER SP-9207 (222)		KS = 316L SEAMLESS VIM/VAR			USED FOR 20-FOOT AND 6-METER LENGTH TUBES					
TNE = PER SP-9241 (444)		NS = 316L SEAMLESS (ASTM STD)				USED ONLY FOR 4-METER LENGTH TUBES				
		NW = 316L WELDED (ASTM STD)								
		QS = 316L SEAMLESS								
		QW = 316L WELDED								
		RS = 316L SEAMLESS								
		RW = 316L WELDED								
		VS = 316L SEAMLESS VIM/VAR								

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	BU

ASTM COAXIAL TUBE PART NUMBER MATRIX

CTXX	- XX	- XX	- XXXXX (XXXX)	X4	- XX
<u>INNER PROCESS CODE</u>	<u>OUTER ALLOY (SEE NOTE 1)</u>	<u>INNER ALLOY (SEE NOTE 1)</u>	<u>SIZE CODE - INNER (SEE NOTE 3)</u>	USED ONLY FOR 4-METER LENGTH TUBES	<u>SURFACE FINISH & VISUALS</u>
CT1A = PER SP-9204 (101)	0S = 316L 0S SEAMLESS	0S (or BLANK) = 316L SEAMLESS	.25	.25	= .25" DIA
CT2A = PER SP-9206 (201)	0W = 316L 0W WELDED	0W = 316L WELDED	.25M	.25M	= .25" DIA (1MM WALL)
CT3A = PER SP-9223 (301)	1S = 304L SEAMLESS	2S = 304L SEAMLESS	.375	.38	= .375" DIA
CT4A = PER SP-9220 (401)	1W = 304L WELDED	2W = 304L WELDED	.375M	.38M	= .375" DIA (1MM WALL)
CTMC = PER SP-9207 (222)	2S = 304L SEAMLESS	3S = 304L SEAMLESS	.5	.5	= .5" DIA
	2W = 304L WELDED	3W = 304L WELDED	.75	.75	= .75" DIA
	AW = 304 WELDED	BS = 316L SEAMLESS, VOD/VAR	.75M	.75M	= .75" DIA (.049" WALL)
	NS = 316L SEAMLESS (ASTM STD)	HS = UNS N06022 ALLOY	1	1	= 1" DIA
	NW = 316L WELDED (ASTM STD)	KS = 316L SEAMLESS VIM/VAR	1.5	1.5	= 1.5" DIA
	RS = 316L SEAMLESS	NS = 316L SEAMLESS (ASTM STD)	2	2	= 2" DIA
	RW = 316L WELDED	NW = 316L WELDED (ASTM STD)			
	VS = 316L SEAMLESS VIM/VAR	QS = 316L SEAMLESS			
		QW = 316L WELDED			
		RS = 316L SEAMLESS			
		RW = 316L WELDED			
		VS = 316L SEAMLESS VIM/VAR			

- 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-XXXXX-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.



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

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

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XXXXXX

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

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XXXXXX

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	SHEET	REV
SP-9200	3/9	8U

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



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TITLE

TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME

SPECIFICATION	SHEET	REV
SP-9200	4/9	BU

JIS COAXIAL PIPE PART NUMBER MATRIX

CPXX

- XX

- XX

- XXX (XX)

X

X4

- XX

INNER PROCESS CODE

OUTER ALLOY (SEE NOTE 1)

INNER ALLOY (SEE NOTE 1)

SIZE CODE - INNER (SEE NOTE 2)

END TYPE CODE

USED ONLY FOR 4-METER LENGTH PIPES

SURFACE FINISH & VISUALS

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

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

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

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**

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 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	SP-9200	SHEET 5/9
		REV BU

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)

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
 (FLANGE ONLY)
 1 = FULL FACE
 2 = RAISED FACE
 3 = GROOVED FACE

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)

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
 16FS = 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 BU

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:

<u>ASTM TUBE</u>	<u>JIS & NPS PIPE</u>
1/4 = .25" DIA	25 = DN 25 (JIS 25A)
3/8 = .375" DIA	32 = DN 32 (JIS 32A)
1/2 = .5" DIA	40 = DN 40 (JIS 40A)
3/4 = .75" DIA	50 = DN 50 (NPS 2 / JIS 50A)
1 = 1" DIA	65 = DN 65 (NPS 2-1/2 / JIS 65A)
1-1/2 = 1.5" DIA	80 = DN 80 (NPS 3 / JIS 80A)
2 = 2" DIA	90 = DN 90 (NPS 3-1/2 / JIS 90A)
2-1/2 = 2.5" DIA	100 = DN 100 (NPS 4 / JIS 100A)
3 = 3" DIA	125 = DN 125 (NPS 5 / JIS 125A)
4 = 4" DIA	150 = DN 150 (NPS 6 / JIS 150A)
6 = 6" DIA	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

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

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.



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TITLE

TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME

SPECIFICATION

SP-9200

SHEET

7/9

REV.

BU

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 = CONG REDUCER
31T = CONG REDUCER, TRANSITIONAL
31W = CONG REDUCER, WLD X SMLS
31WW = CONG REDUCER, WLD X WLD
31FF = CONG REDUCER, FORMED
32 = ECCENTRIC REDUCER
33 = CONG 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

- 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

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.

 www.valex.com		
TITLE TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME		
SPECIFICATION SP-9200	SHEET 8/9	REV BU

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	-	Seamless	AOD or VOD	G3459 / A269 ¹ / A312	316L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NW	CF ⁴	-	Welded	AOD or VOD	G3459 / A269 ¹ / A312	316L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OS	-	-	Seamless	AOD or VOD	A269 ¹ / A312	316L	-	-	-	-	0.010 max	-	-	-	-	-	-	-	-	-	-
QW	-	-	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.



TITLE:
TUBE, PIPE, AND FITTING ITEM NUMBER SCHEME

SPECIFICATION SP-9200	SHEET 9/9	REV BU
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