


BPE TUBE PART NUMBER MATRIX

TV	-	XX	-	XXXX	X	-	XX	-	XX
PROCESS CODE		ALLOY CODE		SIZE CODE	WALL CODE		LENGTH CODE		I.D. SURFACE FINISH CODE (SEE NOTE 3)
TV = PER SP-9225 (BPE)		0S = 316L SEAMLESS		0250 = .25" DIAMETER	B = .035" WALL		4M = 4 METER		S0 = No Finish Requirement
		0W = 316L WELDED		0375 = .375" DIAMETER	D = .049" WALL		6M = 6 METER		S1 = 20 µIn Ra Max, Mechanically Polished
		2S = 304L SEAMLESS		0500 = .5" DIAMETER	F = .065" WALL				S2 = 25 µIn Ra Max, Mechanically Polished
		2W = 304L WELDED		0750 = .75" DIAMETER	G = .083" WALL				S3 = 30 µIn Ra Max, Mechanically Polished
		HS = UNS N06022 Alloy		1000 = 1" DIAMETER	J = .109" WALL				S4 = 15 µIn Ra Max, Electropolished
		H7 = UNS N10276 Alloy		1500 = 1.5" DIAMETER					S5 = 20 µIn Ra Max, Electropolished
				2000 = 2" DIAMETER					S6 = 25 µIn Ra Max, Electropolished
				2500 = 2.5" DIAMETER					
				3000 = 3" DIAMETER					
				4000 = 4" DIAMETER					
				6000 = 6" DIAMETER					

Tube Part Number Example:  
**TV-0S-0500D-6M-S4**  
VALEX BPE TUBE, 316L SEAMLESS, 1/2" O.D. X .049" WALL,  
6M NOMINAL LENGTH, 15 Ra ELECTROPOLISHED I.D. SURFACE

- NOTES:
- 1. PER VALEX SPECIFICATION SP-9225 (BPE).
  - 2. PROCESS CODES MAY NOT BE AVAILABLE FOR ALL PART NUMBER COMBINATIONS.  
PLEASE CONTACT VALEX FOR ITEM NUMBER AVAILABILITY.
  - 3. FOR FINISH CODES S1, S2, & S3 (MECHANICAL POLISH), ANY SURFACE FINISH METHOD IS ACCEPTABLE THAT MEETS The Ra MAX.

		
TITLE BPE TUBE AND FITTING ITEM NUMBER SCHEME		
SPECIFICATION SP-8200	SHEET 1/2	REV G

BPE FITTING PART NUMBER MATRIX

VX

PROCESS/ALLOY CODE

V1 = PER SP-9225 (BPE) 0S/0W (316L)  
V2 = PER SP-9225 (BPE) 2S/2W (304L)  
V3 = PER SP-9225 (BPE) AS/AW (304)  
VP = POLYMER (NOTE 5)  
V4 = PER SP-9225 (BPE) NS/NW (316L)  
V5 = PER SP-9225 (BPE) 1S/1W (304L)  
V6 = PER SP-9225 (BPE) UNS N06022  
V7 = PER SP-9225 (BPE) UNS N10276

XXX

CONFIGURATION CODE

2 = 90° Elbow, Tube Weld  
2J = 90° Elbow, Tube Weld x Hygienic Joint  
2H = 90° Elbow, Hygienic Joint  
2K = 45° Elbow, Tube Weld  
2KJ = 45° Elbow, Tube Weld x Hygienic Joint  
2KH = 45° Elbow, Hygienic Joint  
2A = 88° Elbow, Tube Weld  
2B = 92° Elbow, Tube Weld  
2U = 180° Return Bend, Tube Weld  
2UH = 180° Return Bend, Hygienic Joint  
7N = Instrument Tee, Tube Weld  
7NH = Instrument Tee, Hygienic Joint  
7 = Straight Tee, Tube Weld  
7H = Straight Tee, Hygienic Joint  
7R = Reducing Tee, Tube Weld  
7U = 180° Return Bend Tee  
7RH = Reducing Tee, Hygienic Joint  
8J = Short-Outlet Tee, Tube Weld x Hygienic Joint  
8H = Short-Outlet Tee, Hygienic Joint  
8M = Short-Outlet Run Tee, Hygienic Mechanical Joint  
8RJ = Short-Outlet Reducing Tee, Tube Weld x Hygienic Joint  
8RH = Short-Outlet Reducing Tee, Hygienic Joint  
9 = Straight Cross, Tube Weld  
9H = Straight Cross, Hygienic Joint  
13H = Hygienic Clamp  
13G = Hygienic Gasket  
14S = Ferrule, Tube Weld, Short  
14M = Ferrule, Tube Weld, Medium  
14L = Ferrule, Tube Weld, Long  
16 = Cap, Tube Weld  
16H = End Cap, Solid Hygienic Joint  
31 = Concetric Reducer, Tube Weld  
31J = Concentric Reducer, Hygienic Joint x Tube Weld  
31H = Concetric Reducer, Hygienic Joint  
32 = Eccentric Reducer, Tube Weld  
32J = Eccentric Reducer, Hygienic Joint x Tube Weld  
32H = Eccentric Reducer, Hygienic Joint

XXX

SIZE CODE

04 = .25" DIAMETER  
06 = .375" DIAMETER  
08 = .5" DIAMETER  
12 = .75" DIAMETER  
16 = 1" DIAMETER  
24 = 1.5" DIAMETER  
32 = 2" DIAMETER  
40 = 2.5" DIAMETER  
48 = 3" DIAMETER  
64 = 4" DIAMETER  
96 = 6" DIAMETER

X

WALL CODE

X = N/A  
B = .035" WALL  
D = .049" WALL  
F = .065" WALL  
G = .083" WALL  
J = .109" WALL

X

TYPE CODE

TUBE TYPE:  
X = MACHINED OR N/A  
S = SEAMLESS  
W = WELDED

FITTING FERRULE TYPE: (NOTE 6)

A = TYPE A FERRULE  
B = TYPE B FERRULE

CLAMP TYPE:

0 = ISO DN 15 (1" DIA, TYPE A)  
1 = HEAVY DUTY  
2 = HEAVY DUTY, 3-PIECE  
3 = HIGH PRESSURE, 2-BOLT

GASKET TYPE: (NOTE 4)

C = PTFE (I.E. "TEFLON", ETC.)  
D = FKM (I.E. "VITON", ETC.)  
E = NBR (I.E. "BUNA-N", ETC.)  
F = EPDM

XXXX  
USED ONLY FOR REDUCING  
FITTINGS, INSTRUMENT TEES &  
MULTI TYPE  
REFER TO SIZE, WALL & TYPE  
CODES IF APPLICABLE

X

FINISH OR CONNECTION DETAILS

I.D. SURFACE FINISH CODE (NOTE 3)

0 = Surface Finish Requirement -OR- N/A  
1 = 20 µIn Ra Max, Mechanically Polished  
2 = 25 µIn Ra Max, Mechanically Polished  
3 = 30 µIn Ra Max, Mechanically Polished  
4 = 15 µIn Ra Max, Electropolished  
5 = 20 µIn Ra Max, Electropolished  
6 = 25 µIn Ra Max, Electropolished

GASKET FERRULE TYPE: (NOTE 6)

A = TYPE A FERRULE  
B = TYPE B FERRULE

Fitting Part Number Example 1:

V1-2-16FW-4

VALEX BPE 90-DEG ELBOW, 316L WELDED, 1/2" O.D. X .049" WALL,  
TUBE WELD ENDS, 15 Ra ELECTROPOLISHED I.D. SURFACE

Fitting Part Number Example 2:

V2-7RJ-24FW08DB-1

VALEX BPE REDUCING TEE, 316L, TUBE WELD X HYGIENIC CLAMP TYPE A  
1.5" O.D. (.065W) WELDED X 1/2" O.D. (.049W) SEAMLESS,  
20Ra MECHANICAL POLISH I.D. SURFACE

Fitting Part Number Example 3:

V1-8RH-24FB12FA-3

VALEX BPE SHORT OUTLET REDUCING TEE, 316L,  
1.5" HYGIENIC CLAMP TYPE B X 3/4" HYGIENIC CLAMP TYPE A  
30Ra MECHANICAL POLISH I.D. SURFACE

NOTES:

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- FOR FINISH CODES 1, 2, & 3 (MECHANICAL POLISH), ANY SURFACE FINISH METHOD IS ACCEPTABLE THAT MEETS The Ra MAX.
- "TEFLON®" AND "VITON®" ARE REGISTERED TRADEMARKS OF CHEMOURS COMPANY. "BUNA-N®" IS A REGISTERED TRADEMARK OF ARLANXEO.
- POLYMER MATERIALS INCLUDE RUBBER AND VARIOUS OTHER PLASTICS SUCH AS PTFE, FKM, NBR, EPDM, AND MORE.
- FOR FERRULE TYPE: TYPE A IS ONLY VALID WHEN SIZE IS ≤ 1". TYPE B IS ONLY VALID WHEN SIZE IS ≥ 1".



TITLE  
BPE TUBE AND FITTING ITEM NUMBER SCHEME

SPECIFICATION	SHEET	REV
SP-8200	2/2	G