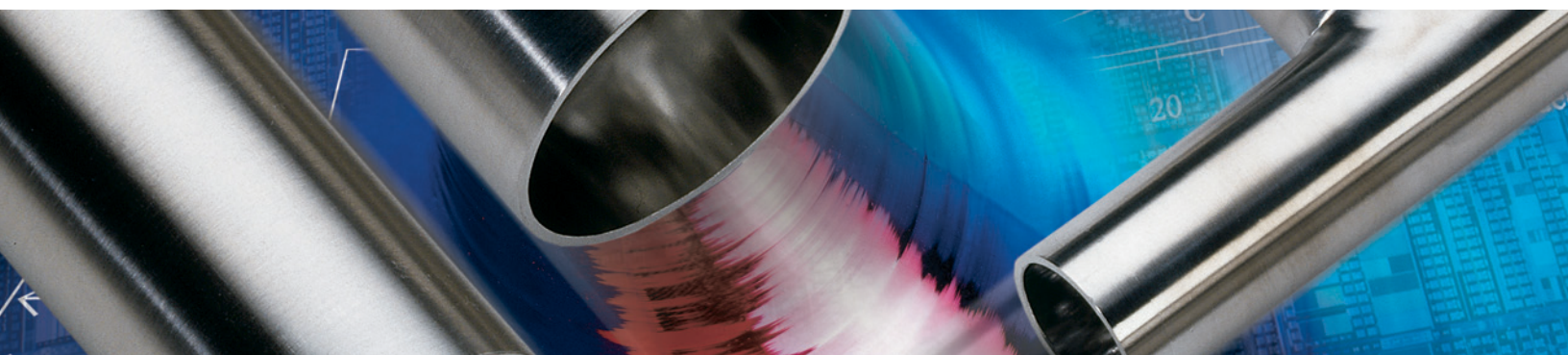




tubing and fittings dimensional specifications

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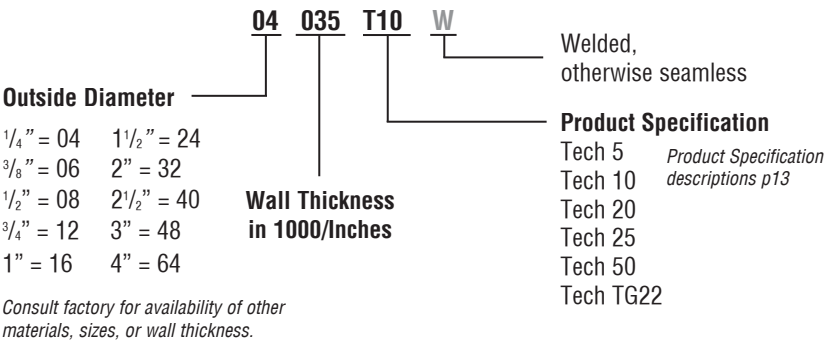
part description system

Cap Color Code:

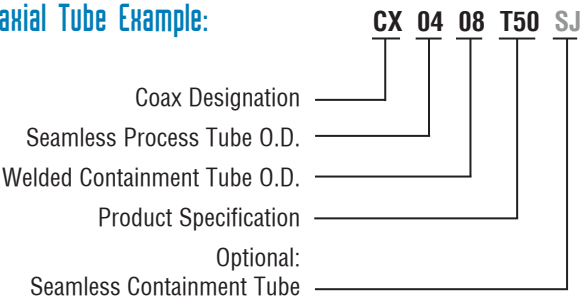
Product Specification
descriptions p13

- Tech CM (white)
- Tech 5 (white)
- Tech 10 (white)
- Tech 20 (white)
- Tech 25 (blue)
- Tech 50 (blue)
- Tech TG22 (yellow)

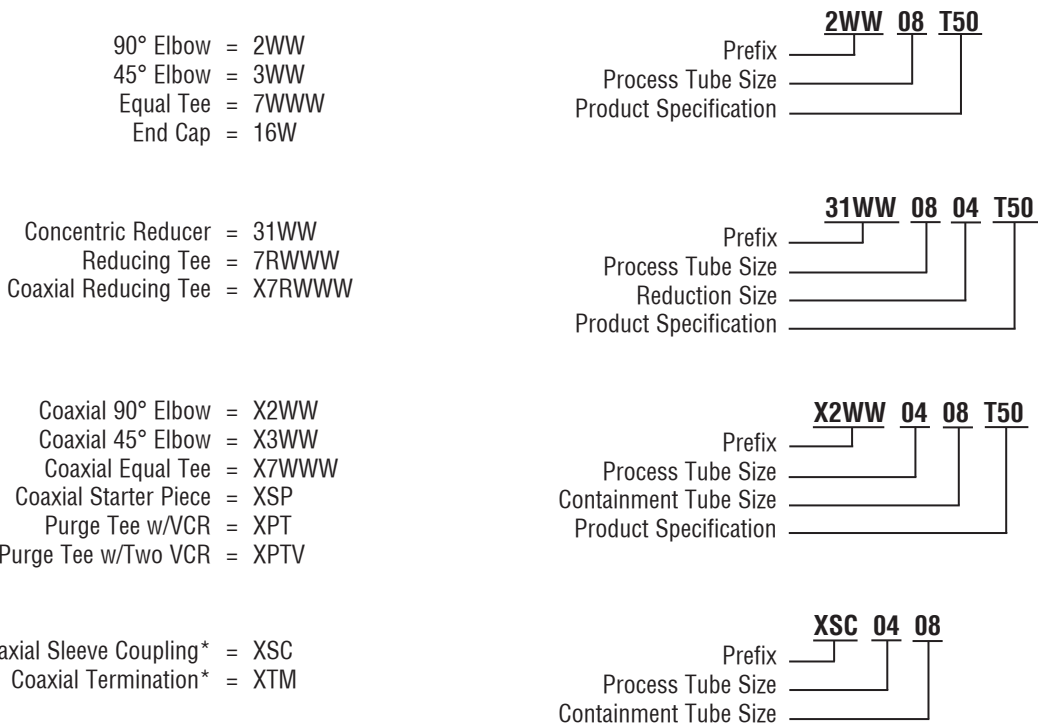
Single Wall Tube Example:



Coaxial Tube Example:

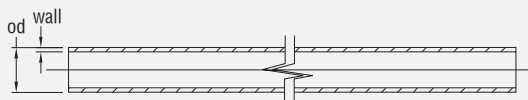


Fitting Example:



*These components are manufactured to containment tube specifications and do not have a specification suffix.

tubing specifications



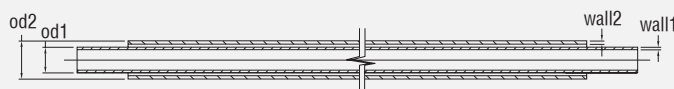
To complete part number add
product specification.

Example: 04035T50

part no.	material	dimensions			product specifications					
		od	wall	lb/ft	5	10	20	25	50	T622
04035T	316L SS SMLS	.250	.035	.080	●	●	●	●	●	
04035TG22	Hastelloy® C22 SMLS	.250	.035	.080						●
06035T	316L SS SMLS	.375	.035	.130	●	●	●	●	●	
06035TG22	Hastelloy C22 SMLS	.375	.035	.130						●
08049T	316L SS SMLS	.500	.049	.240	●	●	●	●	●	
08049TG22	Hastelloy C22 SMLS	.500	.049	.240						●
12065T	316L SS SMLS	.750	.065	.480	●	●	●	●	●	
16065T_W	316L SS WLD	1.00	.065	.650	●	●	●	●	●	
16065T	316L SS SMLS	1.00	.065	.650			●	●	●	
24065T_W	316L SS WLD	1.50	.065	1.00	●	●	●	●	●	
32065T_W	316L SS WLD	2.00	.065	1.34	●	●	●	●	●	
48065T_W	316L SS WLD	3.00	.065	2.03	●	●	●	●	●	
64065T_W	316L SS WLD	4.00	.083	3.47	●	●	●	●	●	

Consult factory for availability of other materials, sizes, or wall thickness.

coaxial tubing specifications



To complete part number add
product specification.

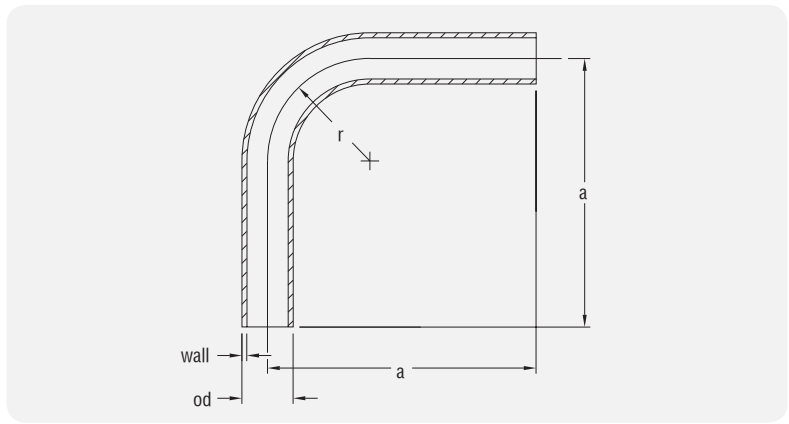
Example: CX0408T50

Example: CX0408T50

		dimensions					product specifications				
part no.	process tube	process od1	wall1	contain od2	wall2	lb/ft	10	20	25	50	T622
CX0408T	316L SS SMLS	.250	.035	.500	.049	.320	●	●	●	●	
CX0408TG22	Hastelloy® C22 SMLS	.250	.035	.500	.049	.320					●
CX0610T	316L SS SMLS	.375	.035	.625	.049	.490	●	●	●	●	
CX0610TG22	Hastelloy C22 SMLS	.375	.035	.625	.049	.490					●
CX0812T	316L SS SMLS	.500	.049	.750	.065	.720	●	●	●	●	
CX0812TG22	Hastelloy C22 SMLS	.500	.049	.750	.065	.720					●
CX1216T	316L SS SMLS	.750	.065	1.00	.065	1.13	●	●	●	●	
CX1620T	316L SS SMLS	1.00	.265	1.25	.065	1.52	●	●	●	●	

Consult factory for availability of coaxial tubing with seamless containment tube.

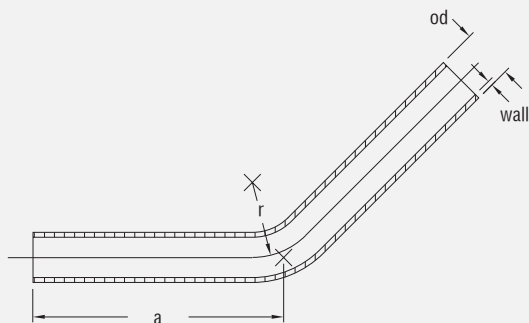
90° elbow 2WW



To complete part number add
product specification.
Example: 2WW04T50

part no.	material	dimensions				product specifications					
		od	wall	a	r	5	10	20	25	50	TG22
2WW04T	316L SS SMLS	.250	.035	2.06	.560	●	●	●	●	●	
2WW04TG22	Hastelloy® C22 SMLS	.250	.035	2.06	.560						●
2WW06T	316L SS SMLS	.375	.035	2.62	.560	●	●	●	●	●	
2WW06TG22	Hastelloy C22 SMLS	.375	.035	2.62	.560						●
2WW08T	316L SS SMLS	.500	.049	2.62	.750	●	●	●	●	●	
2WW08TG22	Hastelloy C22 SMLS	.500	.049	2.62	.750						●
2WW12T	316L SS SMLS	.750	.065	2.62	1.12	●	●	●	●	●	
2WW16T_W	316L SS WLD	1.00	.065	4.00	1.50	●	●	●	●	●	
2WW16T	316L SS SMLS	1.00	.065	4.00	1.50	●	●	●	●	●	
2WW24T_W	316L SS WLD	1.50	.065	3.75	2.25	●	●	●	●	●	
2WW32T_W	316L SS WLD	2.00	.065	4.75	3.00	●	●	●	●	●	
2WW48T_W	316L SS WLD	3.00	.065	6.25	4.50	●	●	●	●	●	
2WW64T_W	316L SS WLD	4.00	.083	8.00	6.00	●	●	●	●	●	

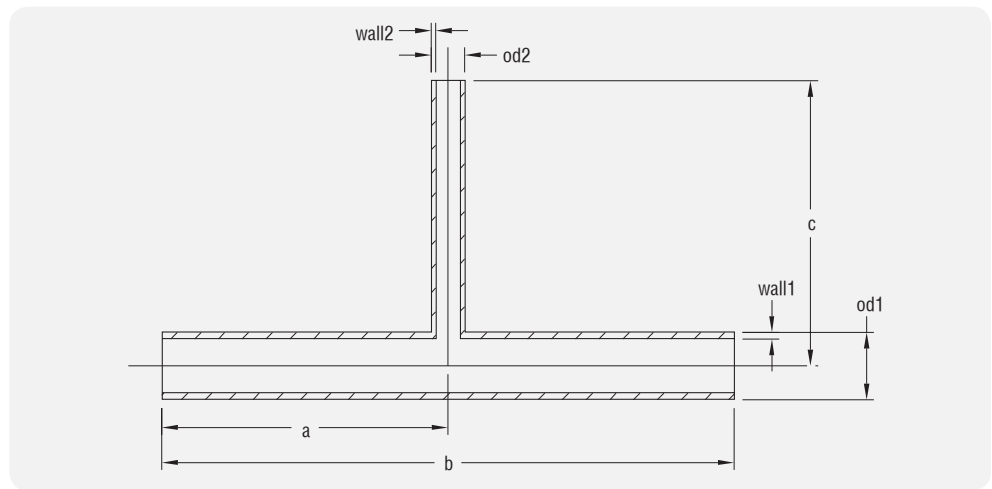
45° elbow 3WW



To complete part number add
product specification.
Example: 3WW04T50

part no.	material	dimensions				product specifications					
		od	wall	a	r	5	10	20	25	50	TG22
3WW04T_	316L SS SMLS	.250	.035	1.10	.560	●	●	●	●	●	
3WW04TG22	Hastelloy® C22 SMLS	.250	.035	1.10	.560						●
3WW06T_	316L SS SMLS	.375	.035	2.00	.560	●	●	●	●	●	
3WW06TG22	Hastelloy C22 SMLS	.375	.035	2.00	.560						●
3WW08T_	316L SS SMLS	.500	.049	2.50	.750	●	●	●	●	●	
3WW08TG22	Hastelloy C22 SMLS	.500	.049	2.50	.750						●
3WW12T_	316L SS SMLS	.750	.065	2.50	1.12	●	●	●	●	●	
3WW16T_W	316L SS WLD	1.00	.065	3.12	1.50	●	●	●	●	●	
3WW16T_	316L SS SMLS	1.00	.065	3.12	1.50	●	●	●	●	●	
3WW24T_W	316L SS WLD	1.50	.065	2.50	2.25	●	●	●	●	●	
3WW32T_W	316L SS WLD	2.00	.065	3.00	3.00	●	●	●	●	●	
3WW48T_W	316L SS WLD	3.00	.065	3.625	4.50	●	●	●	●	●	
3WW64T_W	316L SS WLD	4.00	.083	4.50	6.00	●	●	●	●	●	

reducing tee 7RWWW



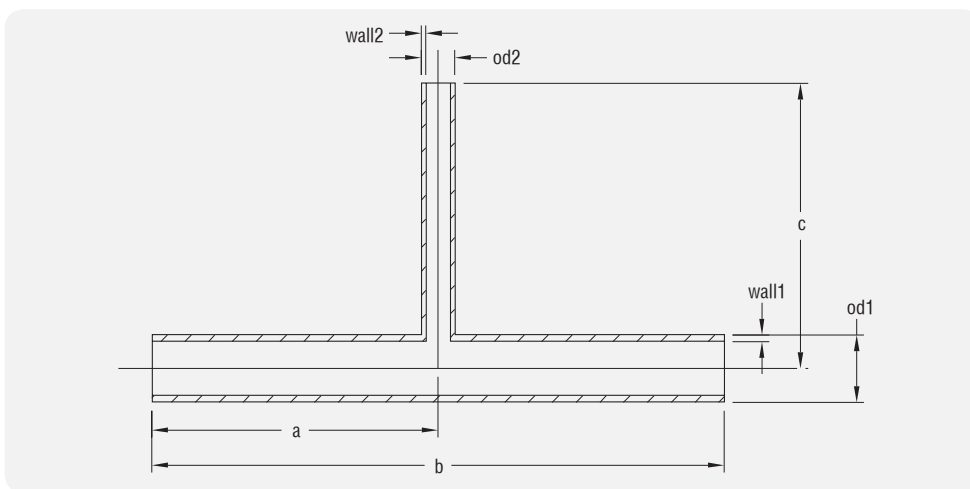
To complete part number add
product specification.
Example: 7RWWW0604T50

part no.	material	dimensions							product specifications					
		od1	od2	wall1	wall2	a	b	c	5	10	20	25	50	TG22
7RWWW0604T	316L SS SMLS	.375	.250	.035	.035	1.75	3.50	1.75	●	●	●	●	●	
7RWWW0604TG22	Hastelloy® C22 SMLS	.375	.250	.035	.035	1.75	3.50	1.75						●
7RWWW0804T	316L SS SMLS	.500	.250	.049	.035	2.12	4.25	2.12	●	●	●	●	●	
7RWWW0804TG22	Hastelloy C22 SMLS	.500	.250	.049	.035	2.12	4.25	2.12						●
7RWWW0806T	316L SS SMLS	.500	.375	.049	.035	2.12	4.25	2.12	●	●	●	●	●	
7RWWW0806TG22	Hastelloy C22 SMLS	.500	.375	.049	.035	2.12	4.25	2.12						●
7RWWW1204T	316L SS SMLS	.750	.250	.065	.035	2.12	4.25	2.12	●	●	●	●	●	
7RWWW1206T	316L SS SMLS	.750	.375	.065	.035	2.12	4.25	2.12	●	●	●	●	●	
7RWWW1208T	316L SS SMLS	.750	.500	.065	.049	2.12	4.25	2.12	●	●	●	●	●	
7RWWW1604T	316L SS SMLS	1.00	.250	.065	.035	2.50	5.00	2.50	●	●	●	●	●	
7RWWW1606T	316L SS SMLS	1.00	.375	.065	.035	2.50	5.00	2.50	●	●	●	●	●	
7RWWW1608T	316L SS SMLS	1.00	.500	.065	.049	2.50	5.00	2.50	●	●	●	●	●	
7RWWW1612T	316L SS SMLS	1.00	.750	.065	.065	2.50	5.00	2.50	●	●	●	●	●	
7RWWW2404T_W	316L SS WLD	1.50	.250	.065	.035	2.375	4.75	2.375	●	●	●	●	●	
7RWWW2406T_W	316L SS WLD	1.50	.375	.065	.035	2.375	4.75	2.375	●	●	●	●	●	
7RWWW2408T_W	316L SS WLD	1.50	.500	.065	.049	2.375	4.75	2.375	●	●	●	●	●	
7RWWW2412T_W	316L SS WLD	1.50	.750	.065	.065	2.375	4.75	2.375	●	●	●	●	●	
7RWWW2416T_W	316L SS WLD	1.50	1.00	.065	.065	2.375	4.75	2.375	●	●	●	●	●	
7RWWW3204T_W	316L SS WLD	2.00	.250	.065	.035	2.875	5.75	2.875	●	●	●	●	●	

continued next page

reducing tee (cont.)

7RWW

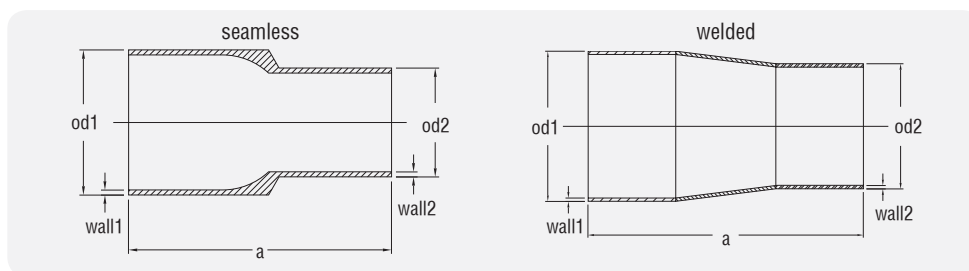


To complete part number add product specification.

Example: 7RWWO604T50

part no.	material	dimensions							product specifications					
		od1	od2	wall1	wall2	a	b	c	5	10	20	25	50	T622
7RWWW3206T_W	316L SS WLD	2.00	.375	.065	.035	2.875	5.75	2.875	●	●	●	●	●	
7RWWW3208T_W	316L SS WLD	2.00	.500	.065	.049	2.875	5.75	2.625	●	●	●	●	●	
7RWWW3212T_W	316L SS WLD	2.00	.750	.065	.065	2.875	5.75	2.625	●	●	●	●	●	
7RWWW3216T_W	316L SS WLD	2.00	1.00	.065	.065	2.875	5.75	2.625	●	●	●	●	●	
7RWWW3224T_W	316L SS WLD	2.00	1.50	.065	.065	2.875	5.75	2.625	●	●	●	●	●	
7RWWW4804T_W	316L SS WLD	3.00	.250	.065	.035	3.375	6.75	3.125	●	●	●	●	●	
7RWWW4806T_W	316L SS WLD	3.00	.375	.065	.035	3.375	6.75	3.125	●	●	●	●	●	
7RWWW4808T_W	316L SS WLD	3.00	.500	.065	.049	3.375	6.75	3.125	●	●	●	●	●	
7RWWW4812T_W	316L SS WLD	3.00	.750	.065	.065	3.375	6.75	3.125	●	●	●	●	●	
7RWWW4816T_W	316L SS WLD	3.00	1.00	.065	.065	3.375	6.75	3.125	●	●	●	●	●	
7RWWW4824T_W	316L SS WLD	3.00	1.50	.065	.065	3.375	6.75	3.125	●	●	●	●	●	
7RWWW4832T_W	316L SS WLD	3.00	2.00	.065	.065	3.375	6.75	3.125	●	●	●	●	●	
7RWWW6404T_W	316L SS WLD	4.00	.250	.083	.035	4.125	8.25	3.625	●	●	●	●	●	
7RWWW6406T_W	316L SS WLD	4.00	.375	.083	.035	4.125	8.25	3.625	●	●	●	●	●	
7RWWW6408T_W	316L SS WLD	4.00	.500	.083	.049	4.125	8.25	3.625	●	●	●	●	●	
7RWWW6412T_W	316L SS WLD	4.00	.750	.083	.065	4.125	8.25	3.625	●	●	●	●	●	
7RWWW6416T_W	316L SS WLD	4.00	1.00	.083	.065	4.125	8.25	3.625	●	●	●	●	●	
7RWWW6424T_W	316L SS WLD	4.00	1.50	.083	.065	4.125	8.25	3.625	●	●	●	●	●	
7RWWW6432T_W	316L SS WLD	4.00	2.00	.083	.065	4.125	8.25	3.875	●	●	●	●	●	
7RWWW6448T_W	316L SS WLD	4.00	3.00	.083	.065	4.125	8.25	3.875	●	●	●	●	●	

concentric reducer 31WW

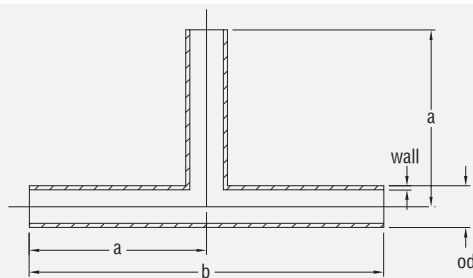


To complete part number add product specification.

Example: 31WW0604T50

part no.	material	dimensions					product specifications					
		od1	od2	wall1	wall2	a	5	10	20	25	50	TG22
31WW0604T	316L SS SMLS	.375	.250	.035	.035	2.75	●	●	●	●	●	
31WW0604TG22	Hastelloy® C22 SMLS	.375	.250	.035	.035	2.75						●
31WW0804T	316L SS SMLS	.500	.250	.049	.035	2.75	●	●	●	●	●	
31WW0804TG22	Hastelloy C22 SMLS	.500	.250	.049	.035	2.75						●
31WW0806T	316L SS SMLS	.500	.375	.049	.035	2.75	●	●	●	●	●	
31WW0806TG22	Hastelloy C22 SMLS	.500	.375	.049	.035	2.75						●
31WW1204T	316L SS SMLS	.750	.250	.065	.035	2.75	●	●	●	●	●	
31WW1206T	316L SS SMLS	.750	.375	.065	.035	2.75	●	●	●	●	●	
31WW1208T	316L SS SMLS	.750	.500	.065	.049	2.75	●	●	●	●	●	
31WW1604T	316L SS SMLS	1.00	.250	.065	.035	3.00	●	●	●	●	●	
31WW1606T	316L SS SMLS	1.00	.375	.065	.035	3.00	●	●	●	●	●	
31WW1608T	316L SS SMLS	1.00	.500	.065	.049	3.00	●	●	●	●	●	
31WW1612T	316L SS SMLS	1.00	.750	.065	.065	3.00	●	●	●	●	●	
31WW2412T_W	316L SS WLD	1.50	.750	.065	.065	3.00	●	●	●	●	●	
31WW2416T_W	316L SS WLD	1.50	1.00	.065	.065	2.50	●	●	●	●	●	
31WW3212T_W	316L SS WLD	2.00	.750	.065	.065	2.75	●	●	●	●	●	
31WW3216T_W	316L SS WLD	2.00	1.00	.065	.065	3.375	●	●	●	●	●	
31WW3224T_W	316L SS WLD	2.00	1.50	.065	.065	2.50	●	●	●	●	●	
31WW4816T_W	316L SS WLD	3.00	1.00	.065	.065	4.25	●	●	●	●	●	
31WW4824T_W	316L SS WLD	3.00	1.50	.065	.065	4.25	●	●	●	●	●	
31WW4832T_W	316L SS WLD	3.00	2.00	.065	.065	3.375	●	●	●	●	●	
31WW4840T_W	316L SS WLD	3.00	2.50	.065	.065	2.625	●	●	●	●	●	
31WW6416T_W	316L SS WLD	4.00	1.00	.083	.065	5.00	●	●	●	●	●	
31WW6424T_W	316L SS WLD	4.00	1.50	.083	.065	4.625	●	●	●	●	●	
31WW6432T_W	316L SS WLD	4.00	2.00	.083	.065	5.125	●	●	●	●	●	
31WW6440T_W	316L SS WLD	4.00	2.50	.065	.065	4.25	●	●	●	●	●	
31WW6448T_W	316L SS WLD	4.00	3.00	.083	.065	3.875	●	●	●	●	●	

equal tee 7WWW

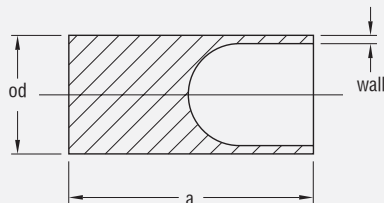


To complete part number add
product specification.

Example: 7WWW04T50

part no.	material	dimensions				product specifications					
		od	wall	a	b	5	10	20	25	50	TG22
7WWW04T	316L SS SMLS	.250	.035	1.75	3.50	●	●	●	●	●	
7WWW04TG22	Hastelloy® C22 SMLS	.250	.035	1.75	3.50						●
7WWW06T	316L SS SMLS	.375	.035	1.75	3.50	●	●	●	●	●	
7WWW06TG22	Hastelloy C22 SMLS	.375	.035	1.75	3.50						●
7WWW08T	316L SS SMLS	.500	.049	2.12	4.25	●	●	●	●	●	
7WWW08TG22	Hastelloy C22 SMLS	.500	.049	2.12	4.25						●
7WWW12T	316L SS SMLS	.750	.065	2.12	4.25	●	●	●	●	●	
7WWW16T_W	316L SS WLD	1.00	.065	2.50	5.00	●	●	●	●	●	
7WWW16T	316L SS SMLS	1.00	.065	2.50	5.00	●	●	●	●	●	
7WWW24T_W	316L SS WLD	1.50	.065	2.375	4.75	●	●	●	●	●	
7WWW32T_W	316L SS WLD	2.00	.065	2.875	5.75	●	●	●	●	●	
7WWW48T_W	316L SS WLD	3.00	.065	3.375	6.75	●	●	●	●	●	
7WWW64T_W	316L SS WLD	4.00	.083	4.125	8.25	●	●	●	●	●	

end cap 16W

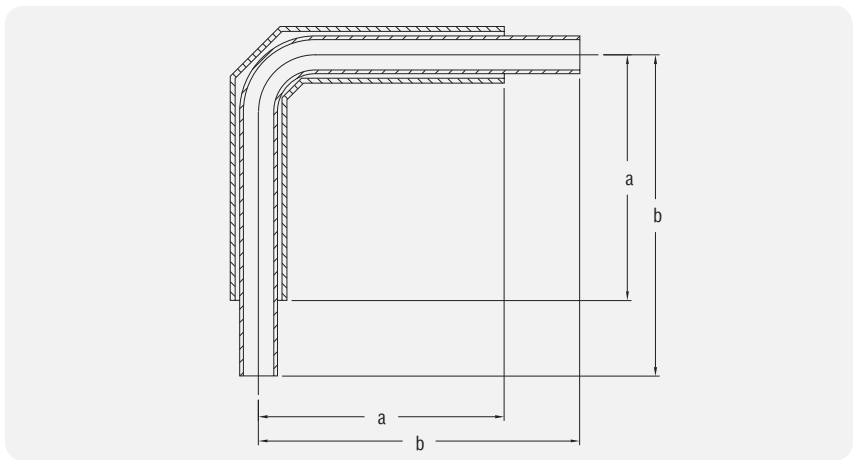


To complete part number add
product specification.

Example: 16W04T50

part no.	material	dimensions			product specifications					
		od	wall	a	5	10	20	25	50	TG22
16W04T	316L SS SMLS	.250	.035	1.125	●	●	●	●	●	
16W04TG22	Hastelloy® C22 SMLS	.250	.035	1.125						●
16W06T	316L SS SMLS	.375	.035	1.125	●	●	●	●	●	
16W06TG22	Hastelloy C22 SMLS	.375	.035	1.125						●
16W08T	316L SS SMLS	.500	.049	1.375	●	●	●	●	●	
16W08TG22	Hastelloy C22 SMLS	.500	.049	1.375						●
16W12T	316L SS SMLS	.750	.065	1.75	●	●	●	●	●	
16W16T	316L SS SMLS	1.00	.065	1.75	●	●	●	●	●	
16W24T_W	316L SS WLD	1.50	.065	1.50	●	●	●	●	●	
16W32T_W	316L SS WLD	2.00	.065	1.50	●	●	●	●	●	
16W48T_W	316L SS WLD	3.00	.065	1.75	●	●	●	●	●	
16W64T_W	316L SS WLD	4.00	.083	2.00	●	●	●	●	●	

coaxial 90° elbow X2WW

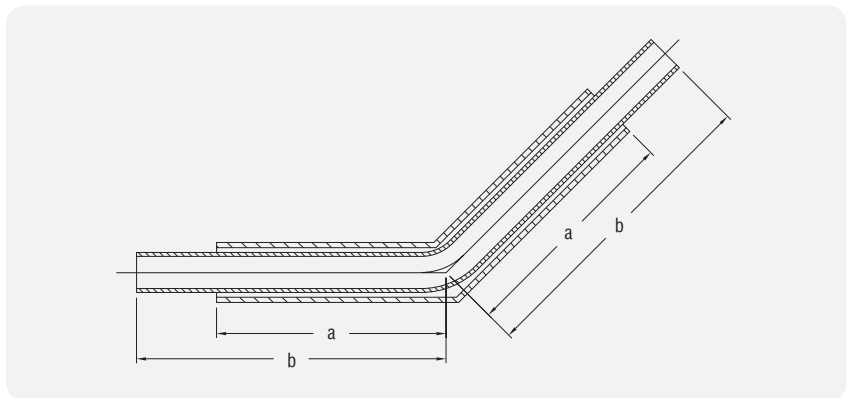


To complete part number add
product specification.

Example: X2WW0408T50

part no.	process tube	dimensions							product specifications					
		process od	process wall	contain od	contain wall	a	b	r	5	10	20	25	50	T622
X2WW0408T	316L SS SMLS	.250	.035	.500	.049	3.37	4.37	.560	●	●	●	●	●	
X2WW0408TG22	Hastelloy® C22 SMLS	.250	.035	.500	.049	3.37	4.37	.560						●
X2WW0610T	316L SS SMLS	.375	.035	.625	.049	3.12	4.12	.560	●	●	●	●	●	
X2WW0610TG22	Hastelloy C22 SMLS	.375	.035	.625	.049	3.12	4.12	.560						●
X2WW0812T	316L SS SMLS	.500	.049	.750	.065	3.25	4.25	.750	●	●	●	●	●	
X2WW0812TG22	Hastelloy C22 SMLS	.500	.049	.750	.065	3.25	4.25	.750						●
X2WW1216T	316L SS SMLS	.750	.065	1.00	.065	5.00	6.75	1.12	●	●	●	●	●	
X2WW1620T	316L SS SMLS	1.00	.065	1.25	.065	5.37	7.12	1.50	●	●	●	●	●	

coaxial 45° elbow X3WW

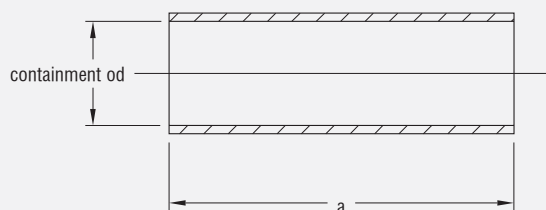


To complete part number add
product specification.

Example: X3WW0408T50

part no.	process tube	dimensions							product specifications					
		process od	process wall	contain od	contain wall	a	b	r	5	10	20	25	50	T622
X3WW0408T	316L SS SMLS	.250	.035	.500	.049	3.00	4.00	.560	●	●	●	●	●	
X3WW0408TG22	Hastelloy® C22 SMLS	.250	.035	.500	.049	3.00	4.00	.560						●
X3WW0610T	316L SS SMLS	.375	.035	.625	.049	2.87	3.87	.560	●	●	●	●	●	
X3WW0610TG22	Hastelloy C22 SMLS	.375	.035	.625	.049	2.87	3.87	.560						●
X3WW0812T	316L SS SMLS	.500	.049	.750	.065	2.87	3.87	.750	●	●	●	●	●	
X3WW0812TG22	Hastelloy C22 SMLS	.500	.049	.750	.065	2.87	3.87	.750						●
X3WW1216T	316L SS SMLS	.750	.065	1.00	.065	4.37	6.12	1.12	●	●	●	●	●	
X3WW1620T	316L SS SMLS	1.00	.065	1.25	.065	4.50	6.25	1.50	●	●	●	●	●	

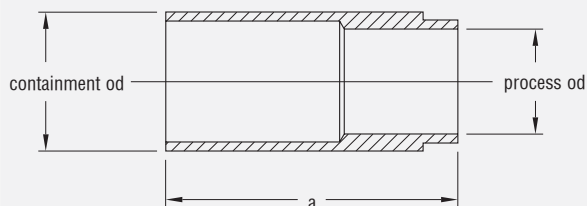
coaxial sleeve coupling XSC



part no.	process tube	dimensions	
		contain od	a
XSC0408	316L SS SMLS	.500	4.00
XSC0610	316L SS SMLS	.625	4.00
XSC0812	316L SS SMLS	.750	4.00
XSC1216	316L SS SMLS	1.00	4.00
XSC1620	316L SS SMLS	1.25	4.00

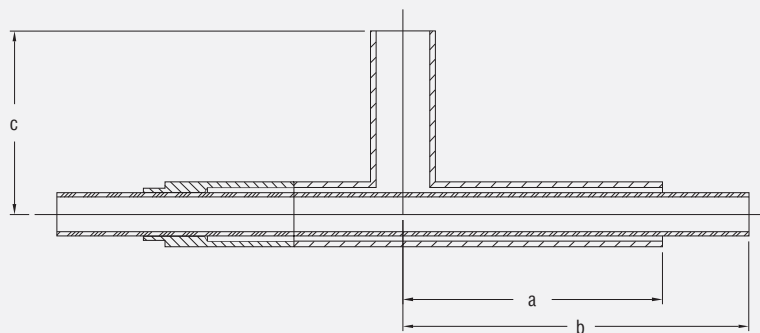
Consult factory for extended lengths.

coaxial termination XTM



part no.	process tube	dimensions		
		process od	contain od	a
XTM0408	316L SS SMLS	.250	.500	1.25
XTM0610	316L SS SMLS	.375	.625	1.25
XTM0812	316L SS SMLS	.500	.750	1.25
XTM1216	316L SS SMLS	.750	1.00	2.00
XTM1620	316L SS SMLS	1.00	1.25	2.00

coaxial starter piece XSP_n



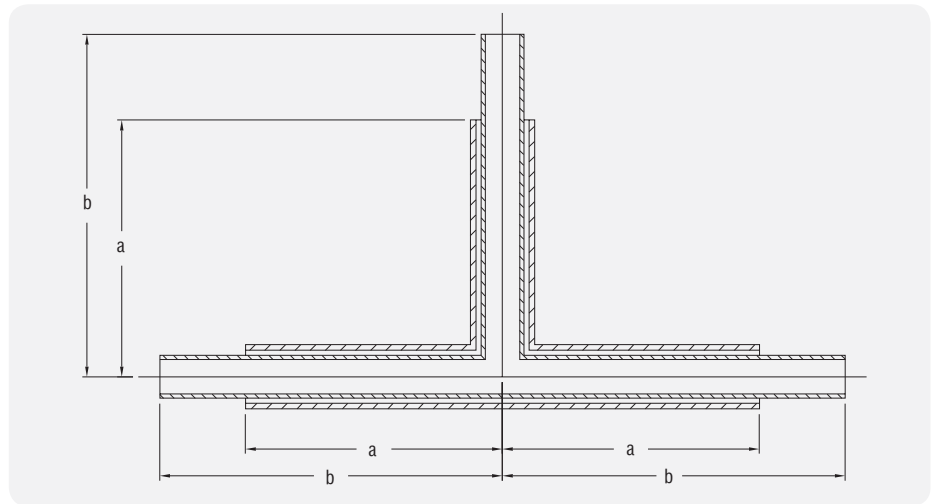
To complete part number add product specification.

Example: XSP0408I5Q

Example: XSP0408T50

		dimensions							product specifications				
part no.	process tube	process od wall		contain od wall		a	b	c	5	10	20	25	50
XSP0408T	316L SS SMLS	.250	.035	.500	.049	2.87	3.87	2.12	●	●	●	●	●
XSP0610T	316L SS SMLS	.375	.035	.625	.049	3.00	4.00	2.12	●	●	●	●	●
XSP0812T	316L SS SMLS	.500	.049	.750	.065	3.00	4.00	2.12	●	●	●	●	●
XSP1216T	316L SS SMLS	.750	.065	1.00	.065	4.62	5.62	2.12	●	●	●	●	●
XSP1620T	316L SS SMLS	1.00	.065	1.25	.065	4.75	5.75	2.50	●	●	●	●	●

coaxial equal tee X7WWW

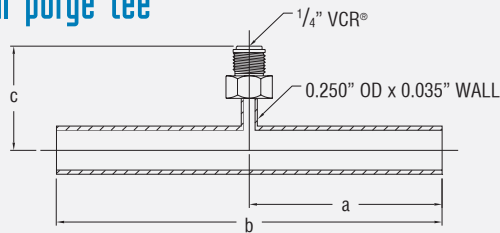


To complete part number add product specification.

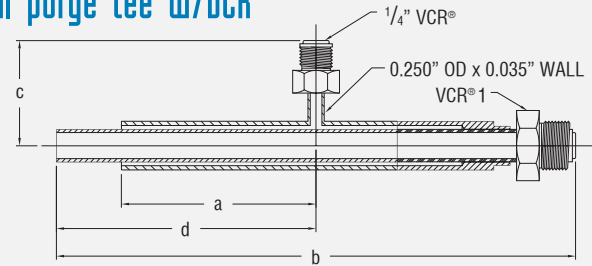
Example: X7WWW0408T50

part no.	process tube	dimensions						product specifications					
		process od	contain wall	process od	contain wall	a	b	5	10	20	25	50	TG22
X7WWW0408T	316L SS SMLS	.250	.035	.500	.049	2.87	3.87	●	●	●	●	●	
X7WWW0408TG22	Hastelloy® C22 SMLS	.250	.035	.500	.049	2.87	3.87						●
X7WWW0610T	316L SS SMLS	.375	.035	.625	.049	3.00	4.00	●	●	●	●	●	
X7WWW0610TG22	Hastelloy C22 SMLS	.375	.035	.625	.049	3.00	4.00						●
X7WWW0812T	316L SS SMLS	.500	.049	.750	.065	3.00	4.00	●	●	●	●	●	
X7WWW0812TG22	Hastelloy C22 SMLS	.500	.049	.750	.065	3.00	4.00						●
X7WWW1216T	316L SS SMLS	.750	.065	1.00	.065	4.62	6.37	●	●	●	●	●	
X7WWW1620T	316L SS SMLS	1.00	.065	1.25	.065	4.75	6.50	●	●	●	●	●	

coaxial purge tee XPT



coaxial purge tee w/VCR XPTU



		dimensions								product specifications					
part no.	process tube	process od	containment od	wall	a	b	c	d	UCR [®] 1	5	10	20	25	50	TG22
XPT0408	316L SS SMLS	.250	.500	.049	2.87	5.75	1.51	—	—						
XPT0610	316L SS SMLS	.375	.625	.049	3.00	6.00	1.57	—	—						
XPT0812	316L SS SMLS	.500	.750	.065	3.00	6.00	1.62	—	—						
XPT1216	316L SS SMLS	.750	1.00	.065	4.62	9.25	1.74	—	—						

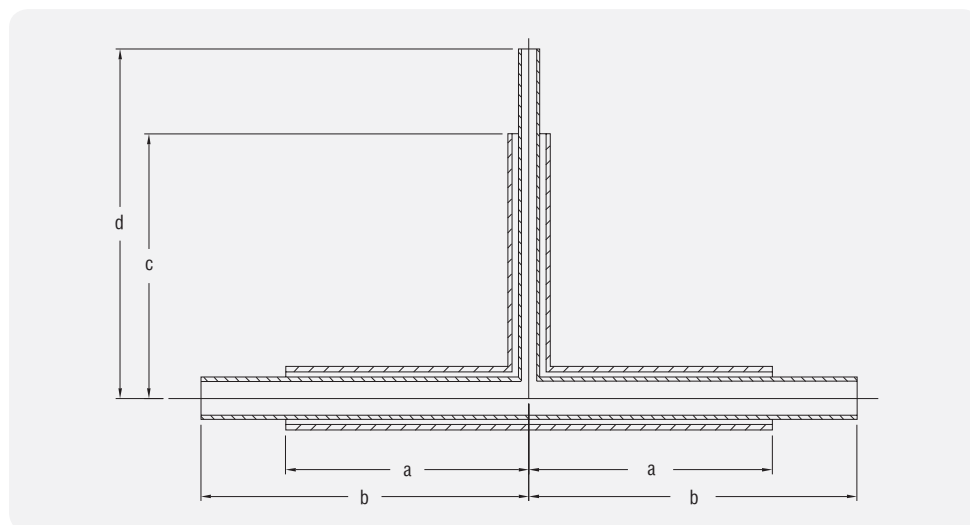
XPTV0408T	316L SS SMLS	.250	.500	.049	2.87	7.75	1.51	3.87	.250	●	●	●	●	●	
XPTV0610T	316L SS SMLS	.375	.625	.049	3.00	8.00	1.57	4.00	.370	●	●	●	●	●	
XPTV0812T	316L SS SMLS	.500	.750	.065	3.00	8.00	1.62	4.00	.500	●	●	●	●	●	

Consult factory for Hastelloy® process tube.

Consult factory for availability of other materials, sizes, or wall thickness.

coaxial reducing tee

X7RWWW



To complete part number add
product specification.

Example: X7RWWW0604T50

part no.	process tube	dimensions								product specifications					
		base leg		branch leg		a	b	c	d	5	10	20	25	50	TG22
		process od	contain od	process od	contain od										
X7RWWW0604T	316L SS SMLS	.375	.625	.250	.500	2.87	3.87	3.12	4.12	●	●	●	●	●	
X7RWWW0604TG22	Hastelloy® C22 SMLS	.375	.625	.250	.500	2.87	3.87	3.12	4.12						●
X7RWWW0804T	316L SS SMLS	.500	.750	.250	.500	2.87	3.87	3.12	4.12	●	●	●	●	●	
X7RWWW0804TG22	Hastelloy C22 SMLS	.500	.750	.250	.500	2.87	3.87	3.12	4.12						●
X7RWWW0806T	316L SS SMLS	.500	.750	.375	.625	3.00	4.00	3.12	4.12	●	●	●	●	●	
X7RWWW0806TG22	Hastelloy C22 SMLS	.500	.750	.375	.625	3.00	4.00	3.12	4.12						●
X7RWWW1204T	316L SS SMLS	.750	1.00	.250	.500	4.37	6.12	3.25	4.25	●	●	●	●	●	
X7RWWW1206T	316L SS SMLS	.750	1.00	.375	.625	4.50	6.25	3.25	4.25	●	●	●	●	●	
X7RWWW1208T	316L SS SMLS	.750	1.00	.500	.750	4.50	6.25	3.25	4.25	●	●	●	●	●	
X7RWWW1604T	316L SS SMLS	1.00	1.25	.250	.500	4.37	6.12	3.37	4.37	●	●	●	●	●	
X7RWWW1606T	316L SS SMLS	1.00	1.25	.375	.625	4.50	6.25	3.37	4.37	●	●	●	●	●	
X7RWWW1608T	316L SS SMLS	1.00	1.25	.500	.750	4.50	6.25	3.37	4.37	●	●	●	●	●	
X7RWWW1612T	316L SS SMLS	1.00	1.25	.750	1.00	4.62	6.37	4.87	6.62	●	●	●	●	●	

® Hastelloy is a registered trademark of Haynes International.

® VCR is a registered trademark of Swagelok Company.

product specifications

○ tech CM

- High quality seamless and welded 316L SS tubing.
- Thermocouple cleaned and capped per ASTM 632 supplement S3.
- Purged with filtered nitrogen, capped and bulk bagged in heat sealed polyethylene.
- Used for instrumentation, clean dry air, and other gas systems requiring cleaned high purity tubing.

○ tech 5

- Surface roughness of 40 μin / 1.0 μm Ra.
- High quality seamless and welded 316L SS tubing.
- Thermocouple cleaned and capped per ASTM 632 supplement S3.
- Purged with filtered nitrogen, capped and bulk bagged in heat sealed polyethylene.
- Used for instrumentation, clean dry air, and other gas systems requiring cleaned high purity tubing.

○ tech 10

- Average surface roughness of 25 μin / 0.63 μm Ra.
- High quality ASTM 269 and ASTM 270 316L SS tubing.
- Controlled sulfur for consistent weldability.
- Exceeds CFOS CGA G4.1 cleaning.
- Fully passivated with nitric acid.
- Rinsed with DI water, purged with filtered nitrogen, capped and individually bagged in heat sealed polyethylene.
- Used for analyzer sample lines, O₂ piping (CFOS), medical gas distribution and vent lines.
- Cleaned to ASTM G93-96 Level A.

○ tech 20

- Chemically polished with an average surface roughness of 15 μin / 0.20 μm Ra.
- High quality ASTM 269 and ASTM 270 316L SS tubing.
- Low particulate cleaning.
- Final cleaning and packaging performed in a cleanroom.
- DI water final rinse, purged with filtered nitrogen until dry, capped and individually bagged in heat sealed polyethylene.
- Used for general high purity systems, such as high grade analyzer lines, compressed dry air, argon, nitrogen and other inert bulk gas services.
- Cleaned to ASTM G93-96 Level A.



● tech 25

- Electropolished to 10 Ra Max / 0.20 $\mu\text{m Ra}$.
- 316L SS tubing meets ASTM specifications for consistent physical, dimensional and chemical composition.
- Controlled sulfur content to insure consistent weldability and reduced non-metallic inclusions.
- Final cleaning and packaging performed in a Class 10 cleanroom.
- 0.1 μ filtered 60°C DI water rinse.
- 0.005 μ filtered 120°C Nitrogen dried.
- Ends are sealed by pressing LDPE caps over polyamide nylon film.
- Individually double bagged in heat sealed polyethylene.
- Used in ultra high purity gas, chemical distribution, and WFI systems.

● tech 50

- Electropolished with an average surface roughness of 7 μin / 0.18 $\mu\text{m Ra}$.
- 316L SS tubing meets ASTM specifications for consistent physical, dimensional and chemical composition.
- Restricted sulfur content insures consistent weldability and low non-metallic inclusions.
- Final cleaning and packaging performed in a Class 10 cleanroom.
- 0.1 μ filtered 18 Megohm 60°C DI water rinse until effluent surpasses 17.5 Megohm.
- Dried with 0.005 μ filtered 120°C Nitrogen.
- Ends are sealed by pressing LDPE caps over polyamide nylon film.
- Individually double bagged in heat sealed polyethylene.
- Subjected to numerous quality verification tests including: particle and moisture analysis, SEM, ESCA and Auger.
- Used for ultra high purity gas distribution systems.

● TG22

- Hastelloy® C22 – a nickel chromium alloy is extremely resistant to pitting and crevice corrosion.
- Surface roughness of 20 μin / 0.5 $\mu\text{m Ra}$.
- Chemically polished and passivated in nitric acid bath followed by a DI water rinse.
- Final cleaning and packaging performed in a Class 10 cleanroom.
- Rinsed with 0.1 μ filtered 18 Megohm 60°C DI water.
- Dried with 0.005 μ filtered 120°C Nitrogen.
- Ends are sealed by pressing LDPE caps over polyamide nylon film.
- Individually double bagged in heat sealed polyethylene.
- Verified quality by particle and moisture testing.
- Used for high purity distribution of highly corrosive gasses.





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