

Special Stainless Product Line Hastelloy N06022/C22 alloy

Is the most versatile nickel-chromium-molybdenum-tungsten alloy available today. With improved resistance to both uniform and localized corrosion, it will out- perform other nickel alloys.

- Composition of Hastelloy N06022 C-22 Wt. %

Element	C	Si	Mn	P	S	Ni	Cr	Mo
Typical	0.015	0.08	0.5	0.02	0.02	Bal	20~22.5	12.5~14.5

- Outstanding mechanical strength and formability, making it an ideal choice for metal fabrication projects.

Condition	Yield Strength (Mpa)	Tensile Strength (Mpa)	Elongation (%)	Hardness (HB)
ASTM Min Value	310	690	45	-
ASTM Min Value	402	794	57	197

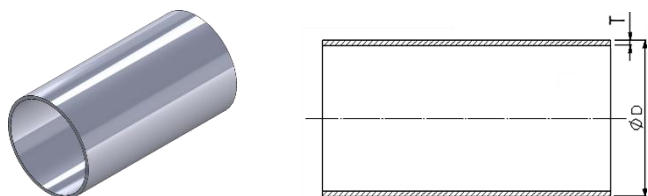
- Excellent resistance to pitting, crevice corrosion, and stress-corrosion cracking.

Reactor Vessel		
10-15% Sulfuric Acid + Solids/Impurities		
212°F (100°C) — 12 Months		
Corrosion		
	Rate (mpy)	Remarks
316L Stainless Steel	>61	Sample Dissolved
Carpenter 20Cb-3® alloy	>57	Sample Dissolved
Alloy 825	>58	Sample Dissolved
HASTELLOY® B-2 alloy	>58	Sample Dissolved
HAYNES® 625 alloy	29	Severe Corrosion Attack
HASTELLOY C-276 alloy	28	Severe Corrosion Attack
HASTELLOY C-22® alloy	4.7	Slight Corrosion Attack



Product Catalogue

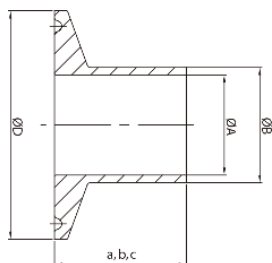
TUBING



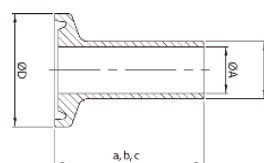
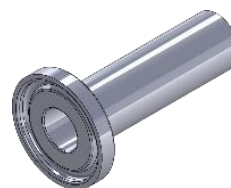
SIZE	ØD	T
1/4"	6.35	0.89
3/8"	9.53	0.89
1/2"	12.7	1.65
3/4"	19.05	1.65
1.0"	25.4	1.65
1.5"	38.1	1.65
2.0"	50.8	1.65
2.5"	63.5	1.65
3.0"	76.2	1.65
4.0"	101.6	2.11

WELD FERRULE

Type A (1/2" ~ 1.0")



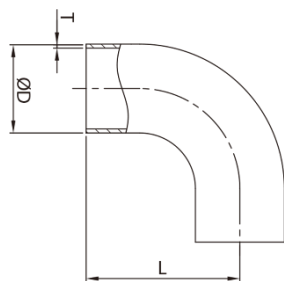
Type B (1.0" ~ 6.0")



TYPE	SIZE	ØA	ØB	ØD	a	b	c
A	1/4"	4.57	6.35	25	44.45	28.58	12.7
	3/8"	7.75	9.53	25	44.45	28.58	12.7
	1/2"	9.4	12.7	25	44.45	28.58	12.7
	3/4"	15.75	19.05	25	44.45	28.58	12.7
	1.0"	22.1	25.4	34	44.45	28.58	12.7
B	1.0"	22.1	25.4	50.39	44.45	28.58	12.7
	1.5"	34.8	38.1	50.39	44.45	28.58	12.7
	2.0"	47.5	50.8	63.91	57.15	28.58	12.7
	2.5"	60.2	63.5	77.39	57.15	28.58	12.7
	3.0"	72.9	76.2	90.91	57.15	28.58	12.7
	4.0"	97.38	101.6	118.92	57.15	28.58	15.88

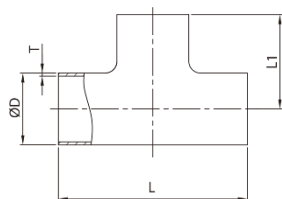
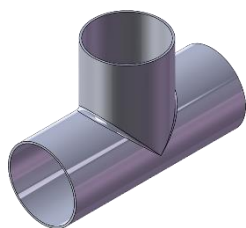
Product Catalogue

WELD ELBOW 90°



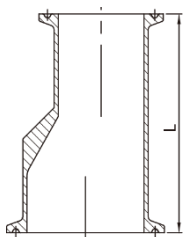
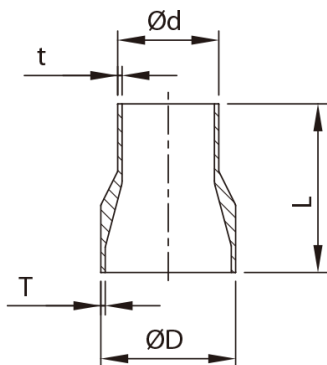
SIZE	ØD	L	T
1/4"	6.35	66.68	0.89
3/8"	9.53	66.68	0.89
1/2"	12.7	76.2	1.65
3/4"	19.05	76.2	1.65
1.0"	25.4	76.2	1.65
1.5"	38.1	95.25	1.65
2.0"	50.8	120.65	1.65
2.5"	63.5	139.7	1.65
3.0"	76.2	158.75	1.65
4.0"	101.6	203.2	2.11

WELD TEE



SIZE	ØD	L	L1	T
1/4"	6.35	88.9	44.45	0.89
3/8"	9.53	88.9	44.45	0.89
1/2"	12.7	95.26	47.63	1.65
3/4"	19.05	101.6	50.8	1.65
1.0"	25.4	107.96	53.98	1.65
1.5"	38.1	120.66	60.33	1.65
2.0"	50.8	146.06	73.03	1.65
2.5"	63.5	158.76	79.38	1.65
3.0"	76.2	171.46	85.73	1.65
4.0"	101.6	209.56	104.78	2.11

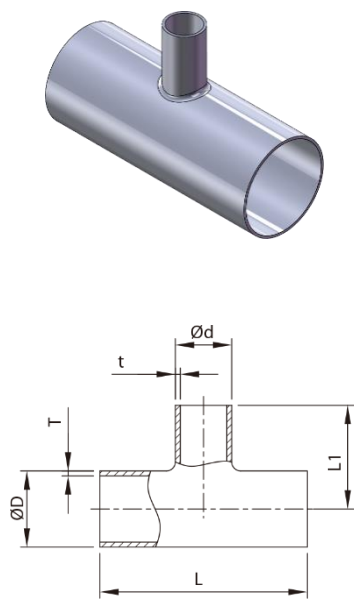
WELD CONCENTRIC REDUCER



SIZE	ØD	Ød	L	T	t
3/8" x 1/4"	9.53	6.35	41.28	0.89	0.89
1/2" x 1/4"	12.7	6.35	47.63	1.65	0.89
1/2" x 3/8"	12.7	9.53	47.63	1.65	0.89
3/4" x 3/8"	19.05	9.53	50.8	1.65	0.89
3/4" x 1/2"	19.05	12.7	53.98	1.65	1.65
1.0" x 1/2"	25.4	12.7	63.5	1.65	1.65
1.0" x 3/4"	25.4	19.05	53.98	1.65	1.65
1.5" x 3/4"	38.1	19.05	76.2	1.65	1.65
1.5" x 1.0"	38.1	25.4	63.5	1.65	1.65
2.0" x 1.0"	50.8	25.4	85.73	1.65	1.65
2.0" x 1.5"	50.8	38.1	63.5	1.65	1.65
2.5" x 1.5"	63.5	38.1	85.73	1.65	1.65
2.5" x 2.0"	63.5	50.8	63.5	1.65	1.65
3.0" x 1.5"	76.2	38.1	107.95	1.65	1.65
3.0" x 2.0"	76.2	50.8	85.73	1.65	1.65
3.0" x 2.5"	76.2	63.5	66.68	1.65	1.65
4.0" x 2.0"	101.6	50.8	130.18	2.11	1.65
4.0" x 2.5"	101.6	63.5	107.95	2.11	1.65
4.0" x 3.0"	101.6	76.2	98.43	2.11	1.65

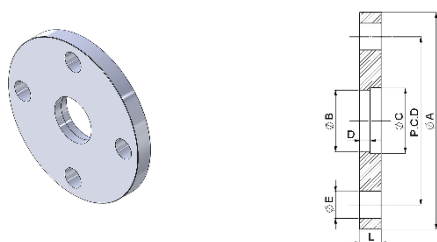
Product Catalogue

WELD REDUCING TEE



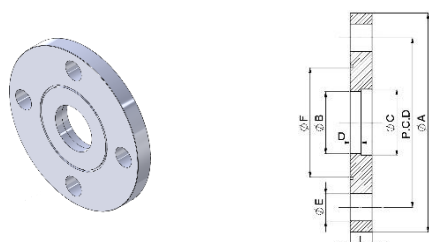
SIZE	ØD	Ød	L	L1	T	t
3/8" x 1/4"	9.53	6.35	88.9	44.45	0.89	0.89
1/2" x 1/4"	12.7	6.35	95.26	47.63	1.65	0.89
1/2" x 3/8"	12.7	6.35	95.26	47.63	1.65	0.89
3/4" x 1/4"	19.05	6.35	101.6	50.8	1.65	0.89
3/4" x 3/8"	19.05	9.53	101.6	50.8	1.65	0.89
3/4" x 1/2"	19.05	12.7	101.6	50.8	1.65	1.65
1.0" x 1/4"	25.4	6.35	107.96	53.98	1.65	0.89
1.0" x 3/8"	25.4	9.53	107.96	53.98	1.65	0.89
1.0" x 1/2"	25.4	12.7	107.96	53.98	1.65	1.65
1.0" x 3/4"	25.4	19.05	107.96	53.98	1.65	1.65
1.5" x 1/2"	38.1	12.7	120.66	60.33	1.65	1.65
1.5" x 3/4"	38.1	19.05	120.66	60.33	1.65	1.65
1.5" x 1.0"	38.1	25.4	120.66	60.33	1.65	1.65
2.0" x 1/2"	50.8	12.7	146.06	66.68	1.65	1.65
2.0" x 3/4"	50.8	19.05	146.06	66.68	1.65	1.65
2.0" x 1.0"	50.8	25.4	146.06	66.68	1.65	1.65
2.0" x 1.5"	50.8	38.1	146.06	66.68	1.65	1.65
2.5" x 1/2"	63.5	12.7	158.76	73.03	1.65	1.65
2.5" x 3/4"	63.5	19.05	158.76	73.03	1.65	1.65
2.5" x 1.0"	63.5	25.4	158.76	73.03	1.65	1.65
2.5" x 1.5"	63.5	38.1	158.76	73.03	1.65	1.65
2.5" x 2.0"	63.5	50.8	158.76	73.03	1.65	1.65
3.0" x 1/2"	76.2	12.7	171.46	79.38	1.65	1.65
3.0" x 3/4"	76.2	19.05	171.46	79.38	1.65	1.65
3.0" x 1.0"	76.2	25.4	171.46	79.38	1.65	1.65
3.0" x 1.5"	76.2	38.1	171.46	79.38	1.65	1.65
3.0" x 2.0"	76.2	50.8	171.46	79.38	1.65	1.65
3.0" x 2.5"	76.2	63.5	171.46	79.38	1.65	1.65
4.0" x 1/2"	101.6	12.7	209.56	92.08	2.11	1.65
4.0" x 3/4"	101.6	19.05	209.56	92.08	2.11	1.65
4.0" x 1.0"	101.6	25.4	209.56	92.08	2.11	1.65
4.0" x 1.5"	101.6	38.1	209.56	92.08	2.11	1.65
4.0" x 2.0"	101.6	50.8	209.56	98.43	2.11	1.65
4.0" x 2.5"	101.6	63.5	209.56	98.43	2.11	1.65
4.0" x 3.0"	101.6	76.2	209.56	98.43	2.11	1.65

FIXED FLANGE



SIZE	ØA	ØB	ØC	D	ØE	L	P.C.D
1.0"	108	23.4	25.7	6.35	15.8x4	12.7	79.4
1.5"	127	36	38.4	6.35	15.8x4	12.7	98.4
2.0"	152.4	48.6	51	6.35	19x4	12.7	120.6
3.0"	190.5	73	76.8	6.35	19x4	12.7	152.4
4.0"	228.6	98.4	102.2	6.35	19x8	12.7	190.5

GROOVED FLANGE



SIZE	ØA	ØB	ØC	D	ØE	L	ØF	P.C.D
1.0"	108	23.4	25.7	6.35	15.8x4	12.7	47.5	79.4
1.5"	127	36	38.4	6.35	15.8x4	12.7	63.5	98.4
2.0"	152.4	48.6	51	6.35	19x4	12.7	88.9	120.6
3.0"	190.5	73	76.8	6.35	19x4	12.7	117.6	152.4
4.0"	228.6	98.4	102.2	6.35	19x8	12.7	152.8	190.5

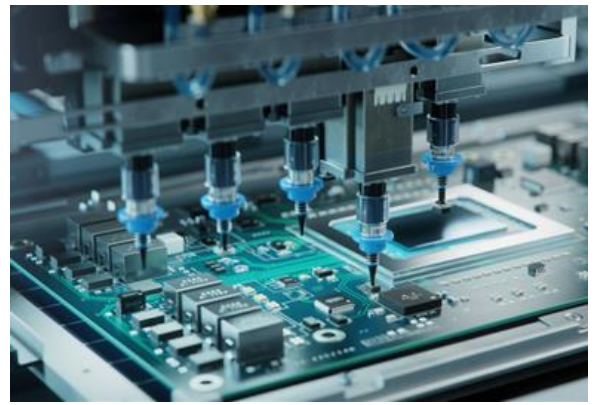
Product Application areas

Hastelloy N06022/C22

The exceptional corrosion resistance of N06022/C22 has promoted its use in many different markets wherever harsh environments are encountered, including the chemical process, pharmaceutical, food processing, semiconductor, oil & gas, power generation, and the paper industries. CRA offers specialty alloy C22 seamless pipe & tube for use in multiple industries and applications, including:



Pharmaceutical Industry



Semiconductor Industry



Food Processing



Power Generation