

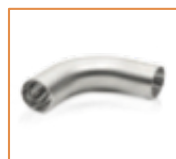
Clean Fitting & Coax Clean Fitting

The pre-fabricated and assembled pipe or tube package with valve and fitting.



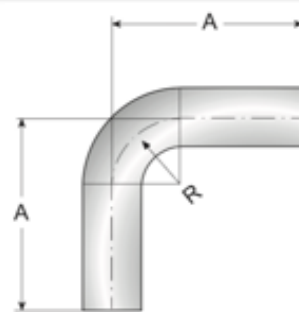
Clean Fitting

►► BE90 - ELBOW 90°



ASTM Standard

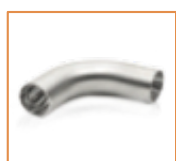
O.D. Size Inch	Dimensions				Shape - Size*
	A inch	A mm	R inch	R mm	
1/4"	2.63	66.80	0.62	15.75	BE90-1/4-*
3/8"	2.63	66.80	1.00	25.40	BE90-3/8-*
1/2"	3.00	76.20	1.13	28.70	BE90-1/2-*
5/8"	3.00	76.20	1.13	28.70	BE90-5/8-*
3/4"	3.00	76.20	1.13	28.70	BE90-3/4-*
1"	3.00	76.20	1.50	38.10	BE90-1-*
1 1/2"	3.75	95.25	2.25	57.15	BE90-1 1/2-*
2"	4.75	120.65	3.00	76.20	BE90-2-*
2 1/2"	5.50	139.70	3.75	95.25	BE90-2 1/2-*
3"	6.25	158.75	4.50	114.30	BE90-3-*
4"	8.00	203.20	6.00	152.40	BE90-4-*
6"	11.50	292.10	9.00	228.60	BE90-6-*



JIS Standard

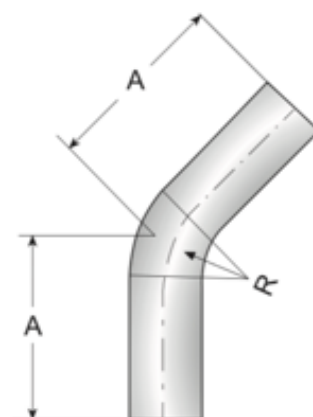
O.D. Size Inch	Dimensions		Shape - Size*
	A mm	R mm	
15A	38.10	75.00	BE90-15A-*
20A	38.10	75.00	BE90-20A-*
25A	38.10	75.00	BE90-25A-*
32A	47.60	94.00	BE90-32A-*
40A	57.20	104.00	BE90-40A-*
50A	76.20	123.00	BE90-50A-*
65A	95.30	147.00	BE90-65A-*
80A	114.30	166.00	BE90-80A-*
100A	152.40	204.00	BE90-100A-*
125A	190.50	250.00	BE90-125A-*
150A	228.60	290.00	BE90-150A-*
200A	304.80	375.00	BE90-200A-*

►► BE45 – ELBOW 45°



ASTM Standard

O.D. Size Inch	Dimensions				Shape - Size*
	A inch	A mm	R inch	R mm	
1/4"	2.00	50.80	0.62	15.75	BE45-1/4-*
3/8"	2.00	50.80	1.00	25.40	BE45-3/8-*
1/2"	2.25	57.15	1.13	28.70	BE45-1/2-*
5/8"	2.25	57.15	1.13	28.70	BE45-5/8-*
3/4"	2.25	57.15	1.13	28.70	BE45-3/4-*
1"	2.25	57.15	1.50	38.10	BE45-1-*
1 1/2"	2.25	57.15	2.25	57.15	BE45-1 1/2-*
2"	3.00	76.20	3.00	76.20	BE45-2-*
2 1/2"	3.37	85.60	3.75	95.25	BE45-2 1/2-*
3"	3.62	91.95	4.50	114.30	BE45-3-*
4"	4.50	114.30	6.00	152.40	BE45-4-*
6"	6.25	158.75	9.00	228.60	BE45-6-*



JIS Standard

O.D. Size Inch	Dimensions		Shape - Size*
	A mm	R mm	
15A	38.10	75.00	BE90-15A-*
20A	38.10	75.00	BE90-20A-*
25A	38.10	75.00	BE90-25A-*
32A	47.60	94.00	BE90-32A-*
40A	57.20	104.00	BE90-40A-*
50A	76.20	123.00	BE90-50A-*
65A	95.30	147.00	BE90-65A-*
80A	114.30	166.00	BE90-80A-*
100A	152.40	204.00	BE90-100A-*
125A	190.50	250.00	BE90-125A-*
150A	228.60	290.00	BE90-150A-*
200A	304.80	375.00	BE90-200A-*

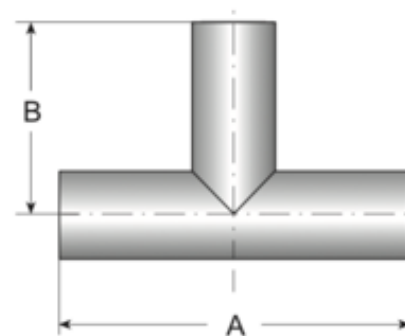
Clean Fitting

►► BT - EQUAL TEE



ASTM Standard

O.D. Size Inch	Dimensions				Shape - Size*
	A inch	A mm	B inch	B mm	
1/4"	3.50	88.90	1.75	44.45	BT-1/4-*
3/8"	3.50	88.90	1.75	44.45	BT-3/8-*
1/2"	3.75	95.25	1.88	47.75	BT-1/2-*
5/8"	4.00	101.60	2.00	50.80	BT-5/8-*
3/4"	4.00	101.60	2.00	50.80	BT-3/4-*
1"	4.25	107.95	2.13	54.10	BT-1-*
1 1/2"	4.75	120.65	2.38	60.45	BT-1 1/2-*
2"	5.75	146.05	2.88	73.15	BT-2-*
2 1/2"	6.25	158.75	3.12	79.25	BT-2 1/2-*
3"	6.75	171.45	3.37	85.60	BT-3-*
4"	8.25	209.55	4.12	104.65	BT-4-*
6"	11.25	285.75	5.62	142.75	BT-6-*



JIS Standard

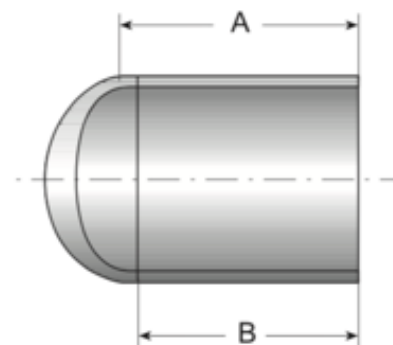
O.D. Size Inch	Dimensions		Shape - Size*
	A mm	B mm	
15A	118.00	59.00	BT-15A-*
20A	130.00	65.00	BT-20A-*
25A	136.00	68.00	BT-25A-*
32A	176.00	88.00	BT-32A-*
40A	190.00	95.00	BT-40A-*
50A	204.00	102.00	BT-50A-*
65A	242.00	121.00	BT-65A-*
80A	260.00	130.00	BT-80A-*
100A	290.00	145.00	BT-100A-*
125A	320.00	160.00	BT-125A-*
150A	340.00	170.00	BT-150A-*
200A	380.00	190.00	BT-200A-*

►► BCP - END CAP



ASTM Standard

O.D. Size Inch	Dimensions		Shape - Size*
	A inch	A mm	
1/4"	1.00	25.40	BCP-1/4-*
3/8"	1.00	25.40	BCP-3/8-*
1/2"	1.50	38.10	BCP-1/2-*
5/8"	1.50	38.10	BCP-5/8-*
3/4"	1.50	38.10	BCP-3/4-*
1"	1.50	38.10	BCP-1-*
1 1/2"	1.50	38.10	BCP-1 1/2-*
2"	1.50	38.10	BCP-2-*
2 1/2"	1.50	38.10	BCP-2 1/2-*
3"	1.75	44.45	BCP-3-*
4"	2.00	50.80	BCP-4-*
6"	2.50	63.50	BCP-6-*



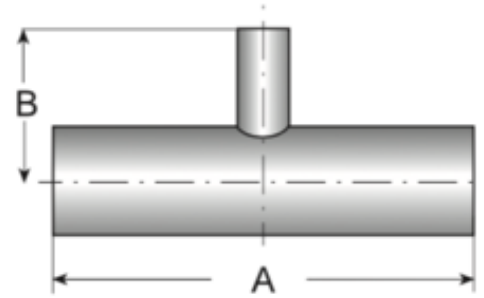
JIS Standard

O.D. Size Inch	Dimensions		Shape - Size*
	A mm		
15A	25.40		BCP-15A-*
20A	25.40		BCP-20A-*
25A	38.10		BCP-25A-*
32A	38.10		BCP-32A-*
40A	38.10		BCP-40A-*
50A	38.10		BCP-50A-*
65A	38.10		BCP-65A-*
80A	50.80		BCP-80A-*
100A	63.50		BCP-100A-*
125A	76.20		BCP-125A-*
150A	88.90		BCP-150A-*
200A	101.60		BCP-200A-*

► BRT - REDUCING TEE



ASTM Standard



O.D. Size Inch		Dimensions				Shape - Size*
		A inch	A mm	B inch	B mm	
3/8"	1/4"	3.50	88.90	1.75	44.45	BRT-3/8-1/4-*
1/2"	1/4", 3/8"	3.75	95.25	1.88	47.75	BRT-1/2-*
5/8"	1/4", 3/8", 1/2"	4.00	101.60	2.00	50.80	BRT-5/8-*
3/4"	1/4", 3/8", 1/2", 5/8"	4.00	101.60	2.00	50.80	BRT-3/4-*
1"	1/4", 3/8", 1/2", 5/8", 3/4"	4.25	107.95	2.13	54.10	BRT-1-*
1 1/2"	1/4", 3/8", 1/2", 5/8", 3/4", 1"	4.75	120.65	2.38	60.45	BRT-1 1/2-*
2"	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/2"	5.75	146.05	2.63	66.80	BRT-2-*
2 1/2"	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/2", 2"	6.25	158.75	2.88	73.15	BRT-2 1/2-*
3"	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/2", 2", 2 1/2"	6.75	171.45	3.12	79.25	BRT-3-*
4"	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/2", 2", 2 1/2", 3"	8.25	209.55	3.88	98.55	BRT-4-*
6"	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/2", 2", 2 1/2", 3", 4"	11.25	285.75	5.62	142.75	BRT-6-*



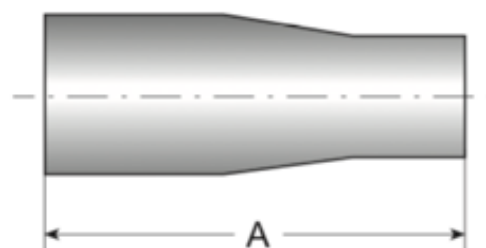
JIS Standard

O.D. Size Inch		Dimensions		Shape - Size*
		A mm	B mm	
15A	1/4", 3/8", 1/2", 3/4"	94 104	44 52	BRT-15A-*
20A	1/4", 3/8", 1/2", 3/4", 1", 15A	94 110	47 55	BRT-20A-*
25A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A	94 118	50 59	BRT-25A-*
32A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A	114 136	54 62	BRT-32A-*
40A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A	114 136 154	57 65 77	BRT-40A-*
50A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2"	114 136 166	63 71 83	BRT-50A-*
65A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2"	122 144 176 194	71 79 90 97	BRT-65A-*
80A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2", 3", 65A	122 144 176 206	77 85 96 103	BRT-80A-*
100A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2", 3", 65A, 80A, 4"	122 144 176 232	90 98 109 116	BRT-100A-*
125A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2", 3", 65A, 80A, 4", 100A	160 200 240 280	110 120 130 140	BRT-125A-*
150A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2", 3", 65A, 80A, 4", 100A, 125A	180 220 260 300 340	130 140 150 160 170	BRT-150A-*
200A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2", 3", 65A, 80A, 4", 100A, 125A, 6", 150A	200 240 280 320 360	150 160 170 180 190	BRT-200A-*

►► BRD - REDUCERS



ASTM Standard



O.D. Size Inch		Dimensions		Shape - Size*
		A inch	A mm	
3/8"	1/4"	1.62	41.15	BRD-3/8-1/4-*
1/2"	1/4", 3/8"	1.87	47.50	BRD-1/2-*
5/8"	1/4", 3/8", 1/2"	1.87	47.50	BRD-5/8-*
3/4"	1/4", 3/8", 1/2", 5/8"	2.10	53.34	BRD-3/4-*
1"	1/4", 3/8", 1/2", 5/8", 3/4"	2.10	53.34	BRD-1-*
1 1/2"	1/4", 3/8", 1/2", 5/8", 3/4", 1"	2.25	57.15	BRD-1 1/2-*
2"	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/2"	2.75	69.85	BRD-2-*
2 1/2"	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/2", 2"	3.25	82.55	BRD-2 1/2-*
3"	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/2", 2", 2 1/2"	4.50	114.30	BRD-3-*
4"	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/2", 2", 2 1/2", 3"	5.00	127.00	BRD-4-*
6"	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/2", 2", 2 1/2", 3", 4"	10.00	254.00	BRD-6-*



JIS Standard

O.D. Size Inch		Dimensions	Shape - Size*
		A mm	
15A	1/4", 3/8", 1/2", 3/4"	100	BRD-15A-*
20A	1/4", 3/8", 1/2", 3/4", 1", 15A	105	BRD-20A-*
25A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A	120	BRD-25A-*
32A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A	125	BRD-32A-*
40A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A	130	BRD-40A-*
50A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2"	140	BRD-50A-*
65A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2"	165	BRD-65A-*
80A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2", 3", 65A	170	BRD-80A-*
100A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2", 3", 65A, 4"	180	BRD-100A-*
125A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2", 3", 65A, 4"	250	BRD-125A-*
150A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2", 3", 65A, 4", 125A	260	BRD-150A-*
200A	1/4", 3/8", 1/2", 3/4", 1", 15A, 20A, 25A, 1 1/2", 32A, 40A, 2", 50A, 2 1/2", 3", 65A, 4", 125A, 6", 150A	280	BRD-200A-*

Coax Clean Fitting



Coax-Tubes

Inner Tube	Outer Tube	Wall Thickness	Wall Thickness
		t1	t2
1/4"	1/2"	0.89	1.24
3/8"	5/8"	0.89	1.24
1/2"	3/4"	1.24	1.65
3/4"	1"	1.65	1.65
1"	1 1/4"	1.65	1.65

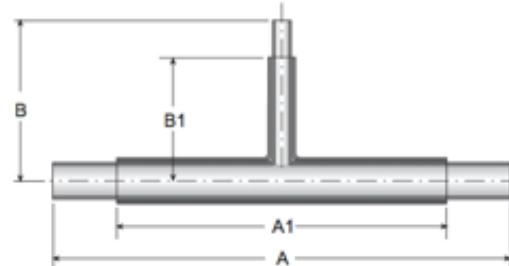
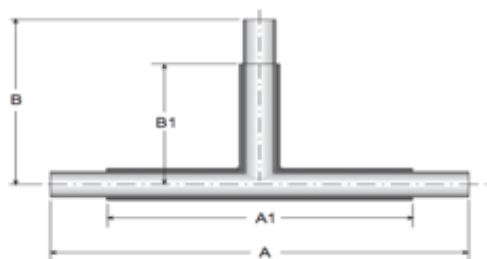
The special twin wall tube system consists of an inner electrochemically polished process tube and an outer safety tube.

Both are prepared for orbital welding and manufactured from high quality stainless steel AISI 316L (the tube is also available in other alloys on demand).

Spacers centre the process tube and safeguard the gas flow between the outer and the inner tube. In case of a leak in the process tube the escaping medium flows into the safety space and can be neutralised and harmlessly discharged from the system.

The twin wall tube system is easy to install by orbital welding and can also be integrated into existing systems and plants.

Coax Clean Fitting



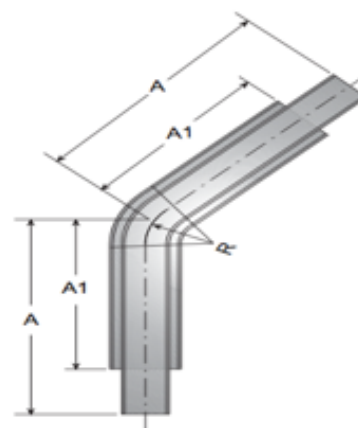
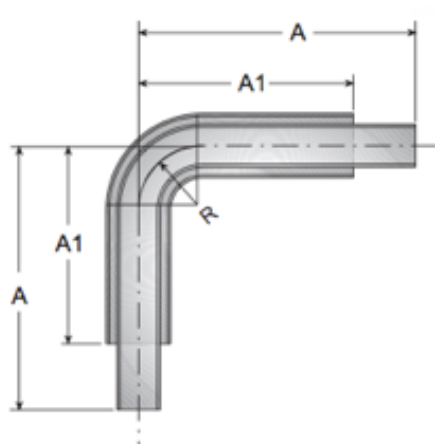
Coax-Tee

O.D. Size		Dimensions				Shape - Size*
Inner	Outer	A	A 1	B	B 1	
1/4"	1/2"	146.10	95.30	73.20	47.80	BCT-1/4-1/2-*
3/8"	5/8"	146.10	95.30	73.20	47.80	BCT-3/8-5/8-*
1/2"	3/4"	152.40	101.60	76.20	50.80	BCT-1/2-3/4-*
3/4"	1"	158.80	108.00	79.50	54.10	BCT-3/4-1-*
1"	1 1/4"	158.80	108.00	79.50	54.10	BCT-1-11/4-*



Coax-Reducing

O.D. Size		Dimensions				Shape - Size*
Inner	Outer	A	A 1	B	B 1	
1/4"*3/8"	1/2"*5/8"	146.1	95.3	73.2	47.8	BCT-1/4-3/8-*
1/4"*1/2"	1/2"*3/4"	152.4	101.6	76.2	50.8	BCT-1/4-1/2-*
3/8"*1/2"	5/8"*3/4"	152.4	101.6	76.2	50.8	BCT-3/8-1/2-*
1/4"3/4"	1/2"*1"	158.8	108	79.5	54.1	BCT-1/4-3/4-*
3/8"3/4"	5/8"*1"	158.8	108	79.5	54.1	BCT-3/8-3/4-*
1/2"3/4"	3/4"*1"	158.8	108	79.5	54.1	BCT-1/2-3/4-*
1/4"*1"	1/2"*1 1/4"	158.8	108	79.5	54.1	BCT-1/4-1-*
3/8"*1"	5/8"*1 1/4"	158.8	108	79.5	54.1	BCT-3/8-1-*
1/2"*1"	3/4"*1 1/4"	158.8	108	79.5	54.1	BCT-1/2-1-*
3/4"*1"	1"*1 1/4"	158.8	108	79.5	54.1	BCT-3/4-1-*



Coax-Elbow 90

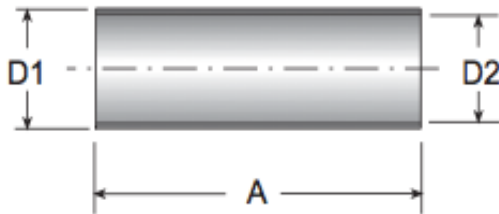
O.D. Size		Dimensions			Shape - Size*
Inner	Outer	A	A 1	R	
1/4"	1/2"	101.6	28.6	28.6	BC90E-1/4-1/2-*
3/8"	5/8"	101.6	28.6	28.6	BC90E-3/8-5/8-*
1/2"	3/4"	101.6	28.6	28.6	BC90E-1/2-3/4-*
3/4"	1"	101.6	28.6	38.1	BC90E-3/4-1-*
1"	1 1/4"	101.6	28.6	38.1	BC90E-1-11/4-*



Coax-Elbow 45

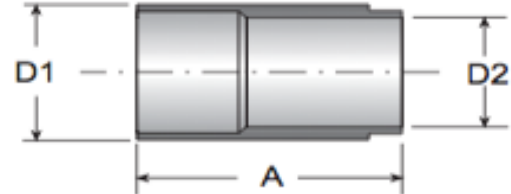
O.D. Size		Dimensions			Shape - Size*
Inner	Outer	A	A 1	R	
1/4"	1/2"	82.6	76.2	28.6	BC45E-1/4-1/2-*
3/8"	5/8"	82.6	76.2	28.6	BC45E-3/8-5/8-*
1/2"	3/4"	82.6	76.2	28.6	BC45E-1/2-3/4-*
3/4"	1"	82.6	76.2	38.1	BC45E-3/4-1-*
1"	1 1/4"	82.6	76.2	38.1	BC45E-1-11/4-*

Coax Clean Fitting



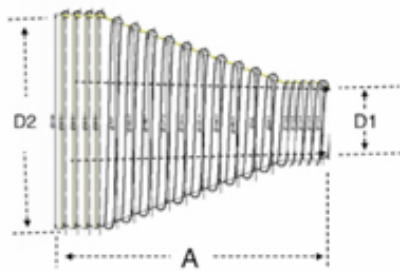
Coax-Sleeve

Outer Tube	Dimensions			Shape - Size*
	D1	D2	A	
1/2"	15.3	12.85	100	BCSEL-1/4-1/2-*
5/8"	18.5	16.03	100	BCSEL-3/8-5/8-*
3/4"	22.5	19.18	100	BCSEL-1/2-3/4-*
1"	29	25.65	100	BCSEL-3/4-1-*
1 1/4"	35.3	32	100	BCSEL-1-11/4-*



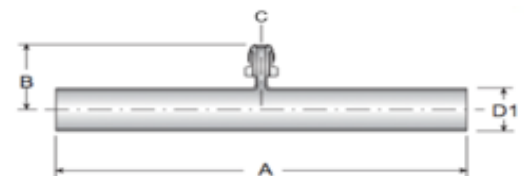
Coax-Terminator

Inner Tube	Outer Tube	Dimensions			Shape - Size*
		D1	D2	A	
1/4"	1/2"	12.7	6.45	31.75	BCTR-1/4-1/2-*
3/8"	5/8"	15.9	9.63	31.75	BCTR-3/8-5/8-*
1/2"	3/4"	19.1	12.8	31.75	BCTR-1/2-3/4-*
3/4"	1"	25.4	19.15	50.8	BCTR-3/4-1-*
1"	1 1/4"	31.8	25.5	50.8	BCTR-1-11/4-*



Coax-Spring

D1	D2	A	Shape - Size*
1/4"	10.22	15	BCSG-1/4-1/2-*
3/8"	13.4	15	BCSG-3/8-5/8-*
1/2"	15.75	15	BCSG-1/2-3/4-*
3/4"	22.1	20	BCSG-3/4-1-*
1"	28.45	20	BCSG-1-11/4-*



Coax-Purge Tee

Inner & Outer	Dimensions				Shape - Size*
	D1	A	B	C	
1/4"x1/2"	1/2"	95.3	127	1/4"VCR	BCPT-1/4-1/2-*
3/8"x5/8"	5/8"	95.3	152.4	1/4"VCR	BCPT-3/8-5/8-*
1/2"x3/4"	3/4"	101.6	152.4	1/4"VCR	BCPT-1/2-3/4-*
3/4"x1"	1"	108	235	1/4"VCR	BCPT-3/4-1-*
1"x1 1/4"	1 1/4"	108	241.3	1/4"VCR	BCPT-1-11/4-*



beta

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