

CERAMIC- BACKED ELBOW

Flat-Back Elbow



Application

Designed and manufactured to withstand the impact of large particle pneumatic conveying. The key to our cast ceramic "Flat-Back" elbow is that it uses a pipe or tube for the inner core substrate. Using a pipe or tube core lessens the wear caused by the outlet transition, which is no longer needed (going from square back to round).

General Description

The "Ceram-Back" elbow has a jacket across the back of the core elbow which is approximately 1/2" of ceramic compound. This compound has a Mohs hardness of 9+, second only to diamond, which has a Mohs hardness of 10. The ceramic jacket and core elbow is then wrapped with an exterior material to maintain hoop strength. Once the core elbow has worn through, the abrasion is then transferred to the ceramic outer jacket. The metal core also acts as a static conductor.

Options

Types of ends available:

- Plain Ends - to be used with compression couplings
- Flanged - Plate Type (150# ASA pattern) or 150# ASA flanges
- Grooved Ends
- Quick Couplings
- Threaded Ends (M.P.T. or F.P.T.)
- Any Special Ends or Grooves (manufactured to specifications)

FEATURES:

- Highly abrasion resistant (Mohs 9+)
- Impact resistant
- Easily replaces existing elbows
- Does not change line flow
- Available in any degree & standard CLR's
- Available in Carbon Steel, Stainless Steel
- Available in pipe or tubing



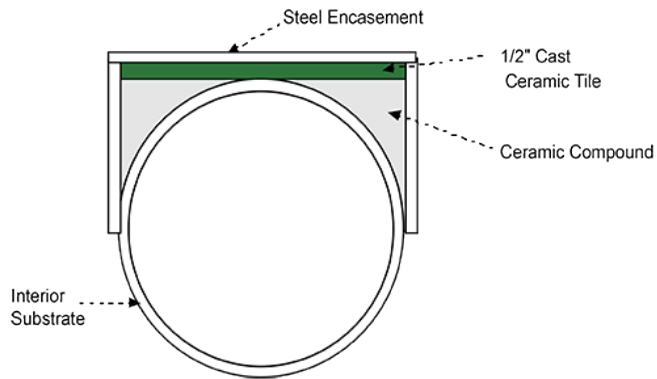
AFTER COMPLETION
SHOWING FLOW
DIRECTION

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CERAMIC-BACK ELBOW

Cross section



Tube bending capabilities

Pipe and tube bends of up to 180 degrees are readily available in aluminum, stainless, carbon steel and galvanized. Other centerline radii are available but not shown. Special shapes, "U" bends, offsets, and bifurcated bends available upon request.

ORDER BENDS

By O.D., wall thickness, alloy, degree of bend, centerline radius and tangent.

Wall thickness:

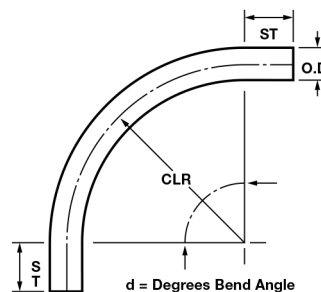
16 ga. (.063), 14 ga. (.083), and 11 ga. (.120) in tubing.

Schedules 5, 10 and 40 pipe. Other wall thicknesses on request.

Materials: Aluminum is 6063-T1 extruded. Stainless is T304 ASTM A312 for pipe and T304 ASTM A249 for tubing.

Carbon steel ASTM A53 for pipe; A513 for tubing. Galvanized A53 for galvanized-coated pipe and A513 for galvanized-coated tubing.

Aluminized tubing is ASTM A787.



FOR SHORT AND
LONG RADIUS
PNEUMATIC
SYSTEMS

STOCK TUBE BENDS

CAMCORP maintains an extensive inventory of tube bends available for 24-hour shipment. Most popular bend sizes are stocked in carbon steel, aluminum and stainless materials.

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CERAMIC-BACK ELBOW

Tube bending capabilities

TUBE SIZE	PIPE SIZE	OUTSIDE DIAMETER		COMMON CENTERLINE RADI (CLR) INCHES	STD. TANGENT (ST)
		INCHES	MILLIMETERS		
1"		1.0	25.4	3, 4, 6, 12	4"
	1"	1.315	33.4	3, 5	4"
1-1/4"		1.25	31.8	3, 7.25	4"
	1-1/4"	1.660	42.2	3.5, 4, 6.25	4"
1-1/2"		1.5	38.1	2.5, 6, 7.5, 9, 12, 15, 18, 24, 30, 36	4"
1-3/4"		1.75	44.5	2.5, 8, 9, 12, 15, 24, 30, 36, 48	4"
	1-1/2"	1.9	48.3	5, 6, 7.5, 9, 10, 12, 18, 24, 30, 36, 48	4"
2"		2.0	50.8	2.5, 3, 3.5, 4, 5, 6, 8, 8.5, 9, 10, 12, 15, 18, 24, 30, 36, 48	4"
2-1/8"		2.125	54.0	3, 5, 12, 24, 30, 36	4-1/4"
2-1/4"		2.25	57.2	3, 9, 12, 15, 17, 24, 30, 36	4-1/2"
	2"	2.375	60.2	6, 7.5, 10, 12, 15, 17, 24, 30, 36, 48	4"
2-1/2"		2.5	63.5	4, 6, 9, 12, 15, 17, 24, 30, 36, 48	5"
2-3/4"		2.75	69.9	2.75, 4, 17, 30, 36, 48	5-1/2"
	2-1/2"	2.875	73.0	12, 12.5, 15, 17, 24, 30, 36, 60	5"
3"		3.0	76.2	4, 4.5, 7.5, 9, 10, 12, 15, 18, 24, 30, 36, 48, 60	6"
3-1/4"		3.25	82.6	17, 30, 36	6-1/2"
3-1/2"	3"	3.5	88.9	3.5, 4.5, 6, 8.75, 12, 15, 16, 18, 24, 30, 36, 48	7" (6" - pipe)
3-3/4"		3.75	95.3	17, 24, 32, 36	7-1/2"
4"	3-1/2"	4.0	101.6	4, 5, 6, 7.75, 10, 12, 16, 18, 20, 24, 30, 32, 36, 48, 60	8" (7" - pipe)
4-1/4"		4.25	107.9	16, 30, 36, 48, 60	8-1/2"
4-1/2"	4"	4.5	114.3	6, 9, 12, 16, 18, 20, 24, 30, 32, 36, 48, 60	9" (8" - pipe)
4-3/4"		4.75	120.7	36	9-1/2"
5"		5.0	127.0	5.5, 7.5, 12.5, 17, 22, 24, 30, 36, 42, 48, 60	10"
	5"	5.563	141.3	15, 20, 24, 30, 36, 42, 48, 60, 72	10"
5-1/2"		5.5	139.7	30, 36	11"
6"		6.0	152.4	9, 15, 18, 24, 30, 36, 42, 48, 60, 72	12"
	6"	6.625	168.2	18, 24, 30, 36, 42, 48, 60, 72	12"
8"		8.0	203.2	12, 20, 32, 48, 60, 72	16"
	8"	8.625	219.1	24, 32, 40, 42, 48, 60, 72	16"
	10"	10.75	273.1	40, 48, 50	20"

Capabilities subject to change without notice.