ALUMINUM FLOW TUBES

Aluminum flow tubes in sizes 4 inch though 12 inch shall be fabricated from at least 3004 alloy with H temper. Wall thickness for the varying sizes will be as follows:

.051 - 4.0 inch outside diameter
.058 - 6.0 inch outside diameter
.064 - 8.0, 10.0 & 12.0 inch outside diameter

Additionally the aluminum tubing will meet the following pressure ranges:

.051 - maximum 140 psi
.058 - maximum 150 psi
.064 - 105 psi

These pressure ranges are based on a 2 to 1 safety factor.

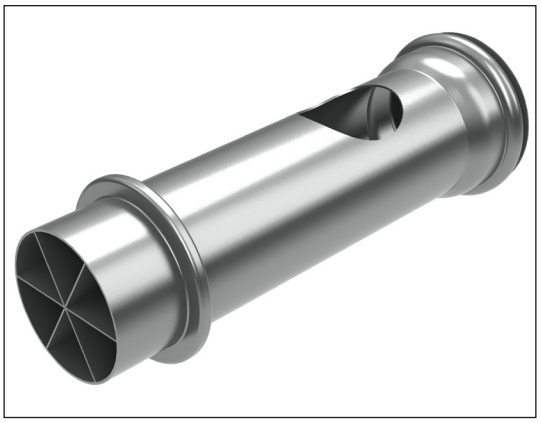
Tube length of sizes 4 inch though 12 inch shall be a minimum of 26 inches in length. This will allow the flow meter to be installed with straightening vanes.

Straightening vanes shall be installed in the tube upstream of the flow meter.

Straightening vanes will be installed across the full pipe inside diameter and will be six vane style. Vanes will be 4 inches in width and .125 to .130 in thickness and shall meet at a common center point, where each vane will be equally spaced and at equal angles. The vanes will be placed in the tube so that they will be 1h to 1 inch from the end of the propeller shaft.

Each individual flow tube shall have a identification tag or other 10 showing individual manufacturers' name and direction of flow.

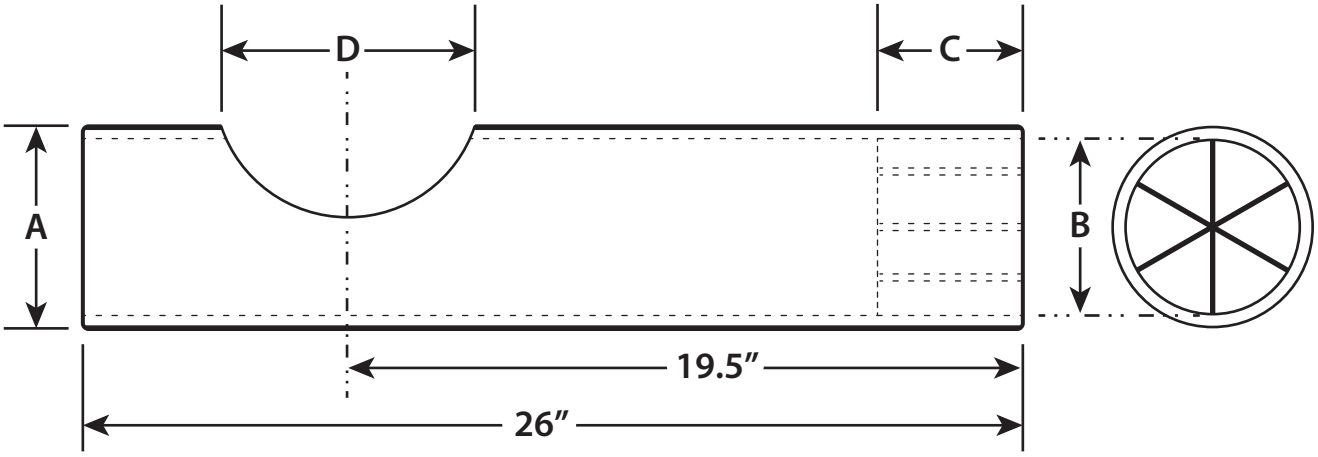
The flow tubes can be configured into the pipeline by adding gasketed couplers, rolled ends and tube ends or standard flanges. Couplers should be compatible for use with band and hook assemblies or ring band locks. Plain end tubes can be welded in place or dresser couplers can be used. Configuring into the pipeline should be done in accordance with the usually accepted industry practices.



The above specifications and recommendations are based on factory specifications and the experience and field operating conditions observed by McCrometer.

A diagram of aluminum flow tubes with a table of specifications and part numbers follows on the next page.

Specifications for Aluminum Flow Tubes



PART NO.	A (Tube OD)	B (Tube ID)	C (Vane Length)	D (Hole Size)	Wall Thickness
TA104-26	4.00 OD	3.898	4.00	4.00	.051
TA106-26	6.00 OD	5.884	4.00	5.00	.058
TA108-26	8.00 OD	7.872	4.00	5.125	.064
TA110-26	10.00 OD	9.872	4.00	6.00	.064
TA112-26	12.00 OD	11.872	4.00	7.00	.064

4″ tubes have four vanes, 6″ and larger have six vanes.

Customers may specify type of couplers to match the application. Kroy and Hastings couplers are stocked.

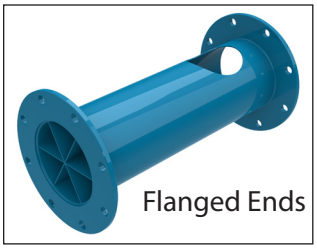
STEEL FLOW TUBES

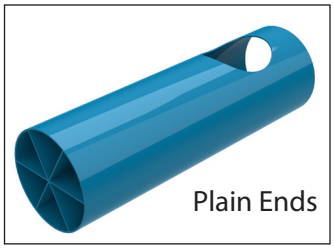
All steel tubes have epoxy coating.

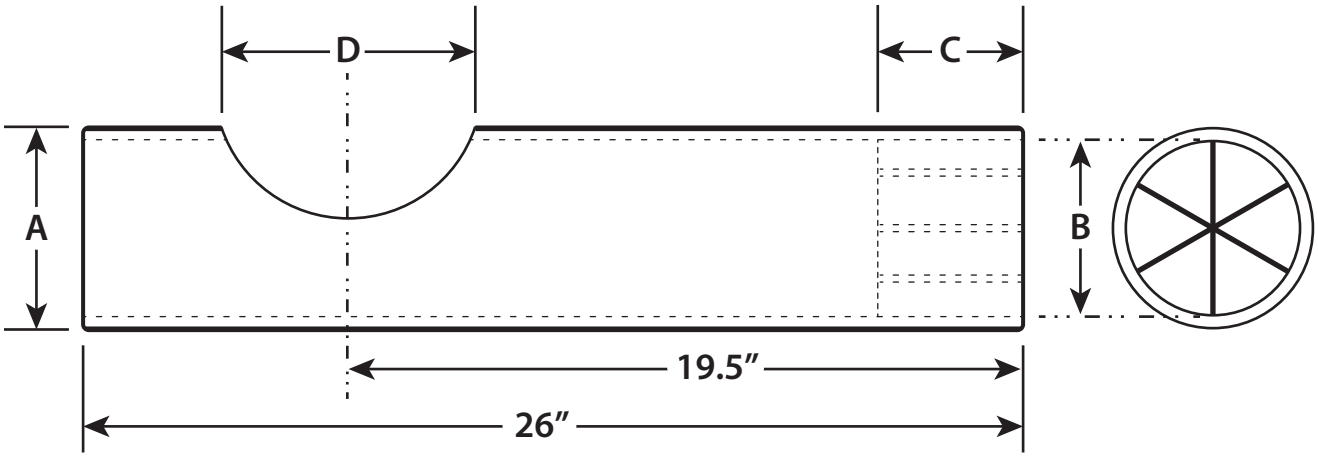
For part numbers: FL = Flanged Ends PE=Plain Ends

All tubes are made of 10 gauge carbon steel.

4" tubes have four vanes, 6" and larger have six vanes







Pipe Size	Part No.	A (Tube OD)	B (Tube ID)	C (Vane Length)	D (Hole Size)
4"	TD104-26PEPE6	4.00 OD	3.760	4.00	4.00
	TO104-26PEPE4	4.50 OD	4.260	4.00	4.00
	TO204-26FLFL4	4.50 OD	4.260	4.00	4.00
6"	TD106-26PEPE6	6.00 OD	5.731	4.00	5.00
	TD206-26FLFL6	6.00 OD	5.731	4.00	5.00
	TO106-26PEPE6	6.625 OD	6.356	4.00	5.125
	TO206-26FLFL6	6.625 OD	6.356	4.00	5.125
8"	TD108-26PEPE6	8.00 OD	7.731	4.00	5.125
	TD208-26FLFL6	8.00 OD	7.731	4.00	5.125
	TO108-26PEPE6	8.625 OD	8.356	4.00	6.00
	TO208-26FLFL6	8.625 OD	8.356	4.00	6.00
10"	TD110-26PEPE6	10.00 OD	9.732	4.00	6.00
	TD210-26FLFL6	10.00 OD	9.732	4.00	6.00
	TO110-26PEPE6	10.75 OD	10.374	4.00	7.00
	TO210-26FLFL6	10.75 OD	10.374	4.00	7.00
12"	TD112-26PEPE6	12.00 OD	11.731	4.00	7.00
	TD212-26FLFL6	12.00 OD	11.731	4.00	7.00
	TO112-26PEPE6	12.75 OD	12.481	4.00	7.125
	TO212-26FLFL6	12.75 OD	12.481	4.00	7.125

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