

Straightener

(Prover Accessories)



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TRG Straightening Vanes are installed in the upstream section of meter tubes to reduce flow disturbance preceding the orifice plate. Disturbance is often created by complex piping or valves which precede the orifice metering section. As flow passes through the vane bundle, the disturbance is straightened and smoothed to a normal flow pattern. Straightening Vanes are economical because their use often allows sufficient reduction of upstream meter tube length, so that a smaller building or enclosure is possible.

TRG Straightening Vanes are manufactured in a variety of sizes, in carbon steel and stainless steel. They are in accordance with recommendations of the A.G.A. and A.S.M.E., as well as numerous other societies and associations. Three standard vane bundles are shown in the document entitled "Standard Straightening Vane Bundles." Each type bundle is available in a Flange Model and a Line Model.



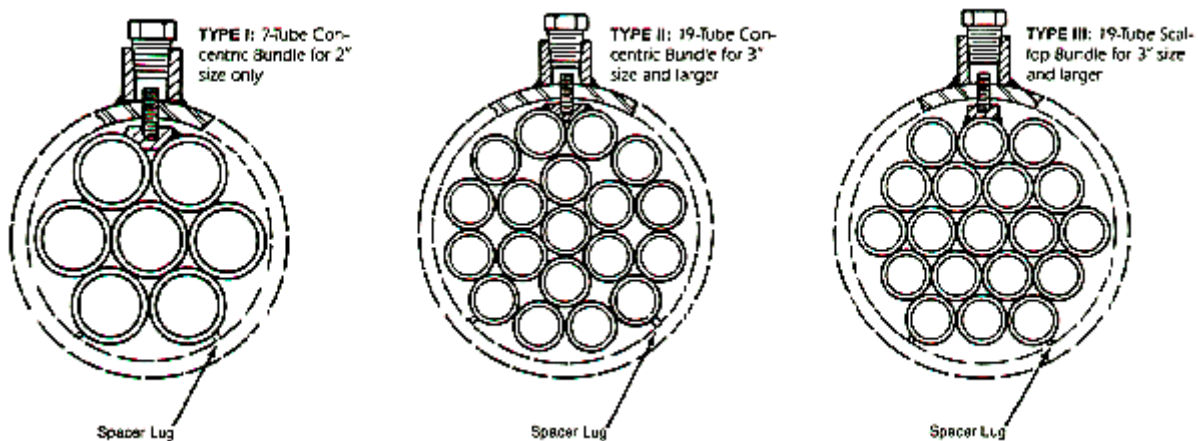
The tubes in each TRG vane bundle are welded at both ends at each point of tangency. Tube inlets and outlets are reamed to permit minimum pressure drop. Special spacer lugs on each vane bundle assure a perfect fit in the meter tube.

The Flange Model is held in the line by a flange ring which is clamped between two pipe line flanges.

TRG Straightening Vane Uses (Stainless Steel)

Stainless steel vanes are particularly useful in meter tubes handling corrosive flows, in buried meter tubes, or in tubes having condensate problems. The standard material for these Daniel vanes is 304 stainless steel.

Standard Straightening Vane Bundles (CROSS-SECTION END VIEW)



Line Model Straightening Vane (Carbon Steel)

Line	Bundle	Line	A	B	O.D. of	Wall	Number	Number and	Approx.
Size	Type**	I.D.	Length of Vane?	O.D. of Vane	Tubes	Thickness	Tubes	Size	Weight
						of Tubes		of Screws	
inch es		inches	inches	inches	inches	inches		inches	lbs.
2	I	2.067	6	1 31/32	21/32	.095	7	1--3/8 x 3/4	2
	I	1.939	6	1 7/8*	21/32	.095	7	1--3/8 x 3/4	2
3	II	3.068	8	2 7/8	19/32	.049	19	1--3/8 x 3/4	3
	II	2.900	8	2 3/4	9/16	.049	19	1--3/8 x 1	3
4	II	4.026	10	3 31/32	13/16	.049	19	1--3/8 x 1	6 1/2
	III	3.826	10	3 3/4	3/4	.049	19	1--3/8 x 1 1/4	6 1/2
6	III	6.065	12	5 15/16	1 3/16	.049	19	1--1/2 x 1 1/4	18 1/2
	III	5.761	12	5 5/8	1 1/8	.049	19	1--1/2 x 1 1/4	18 1/2
8	II	8.071	16	7 29/32	1 5/8	.065	19	1--1/2 x 1	34 1/2
	II	7.981	16	7 29/32	1 5/8	.065	19	1--1/2 x 1 1/4	34 1/2
10	III	10.136	20	10	2	.083	19	1--1/2 x 1 1/4	53 1/2
	II	10.020	20	9 3/4	2	.083	19	1--1/2 x 1 1/4	53 1/2
12	III	12.090	24	11 7/8	2 3/8	.083	19	2--1/2 x 1 1/2	77
	III	12.000	24	11 7/8	2 3/8	.083	19	2--1/2 x 1 1/2	77
	II	11.938	24	11 9/16	2 3/8	.083	19	2--1/2 x 1 1/4	77
14	III	13.250	28	13 1/8	2 5/8	.083	19	2--1/2 x 1 1/2	100
	II	13.000	28	12 3/4	2 5/8	.083	19	2--1/2 x 1 1/2	100
16	III	15.250	32	15	3	.188	19	2--1/2 x 1 3/4	268
	II	15.500	32	14 19/32	3	.188	19	2--1/2 x 1 1/2	268
18	II	17.250	36	17 1/32	3 1/2	.188	19	2--1/2 x 1 1/4	378
20	II	19.250	40	18 27/32	3 7/8	.188	19	2--1/2 x 1 1/4	468
24	II	23.250	48	23 1/8	4 3/4	.188	19	2--1/2 x 1 1/4	693
26	III	25.250	52	25	5	.188	19	2--1/2 x 1 1/2	796
30	III	29.250	60	28 3/4	5 3/4	.188	19	2--1/2 x 1 1/2	1273
34	II	33.250	68	32 13/16	6 3/4	.250	19	2--1/2 x 1 1/2	1860
36	III	35.250	72	35	7	.188	19	2--1/2 x 1 1/2	1559