



CRANE STRAIGHTENING VANES.
A MEASUREABLE DIFFERENCE
IN QUALITY AND DENPENDABILITY.

Crane straightening vanes are designed and Manufactured to ensure years of reliable performance. Installed in the upstream position of the meter tube, Crane straightening vanes reduce the flow disturbance which proceeds the orifice plate. This disturbance is changed to a normal flow pattern as it passes through the vane bundle to ensure increased accuracy of flow measurement.

Crane straightening vanes are manufactured in a variety of sizes and are available for immediate shipment. Carbon steel and stainless steel are standard materials; exotic materials are quoted upon request. All straightening vanes are manufactured in strict accordance with AGA Report # 3 and ASME recommendations, and comply with the standards set by numerous other societies and associations.

Two standard vane bundles are shown above; each type bundle is available in a flange and a line configuration. The tubes in each vane bundle are welded at each end at all common tangent lines. To permit minimum pressure drop, all tube inlets and outlets are tapered reamed or ground.

CRANE MANUFACTURING STRAIGHTENING VANES

LINE SIZE	LINE I.D	(A) LENGTH OF VANE	(B) THK OF FLANGE RING	(C) O.D. OF VANE	O.D. OF TUBES	WALL THK. OF TUBES	NUMBER OF TUBES	LINE MODEL	APPOXIMATE WEIGHTS	
								SIZE OF SCREWS	FLANGE MODEL	LINE MODEL
2	S/40 2.067	6	.250	2.000	.625	.049	7	3/8 NC X 1	3	2
2	S/80 1.939	6	.250	1.875	.562	.049	7	3/8 NC X 1	3	2
3	S/40 3.068	8	.250	3.000	.562	.049	19	3/8 NC X 1	4	3
3	S/80 2.900	8	.250	2.812	.562	.049	19	3/8 NC X 1	4	3
4	S/40 4.026	10	.250	3.937	.812	.049	19	3/8 NC X 1	8	7
4	S/80 3.826	10	.250	3.750	.750	.049	19	3/8 NC X 1.250	8	7
6	S/40 6.065	12	.250	5.937	1.187	.065	19	1/2 NC X 1.250	21	19
6	S/80 5.761	12	.250	5.625	1.125	.065	19	1/2 NC X 1.250	21	19
8	S/40 7.981	16	.250	7.812	1.562	.065	19	1/2 NC X 1.250	37	35
8	S/80 7.625	16	.250	7.500	1.500	.065	19	1/2 NC X 1.250	37	35
10	S/40 10.020	20	.375	9.812	2.000	.083	19	1/2 NC X 1.250	57	54
10	S/80 9.564	20	.375	9.437	1.875	.083	19	1/2 NC X 1.250	57	54
12	STD 12.000	24	.375	11.750	2.375	.083	19	1/2 NC X 1.500	81	77
12	S/40 11.938	24	.375	11.750	2.375	.083	19	1/2 NC X 1.500	81	77
12	XH 11.750	24	.375	11.500	2.375	.083	19	1/2 NC X 1.500	81	77
14	STD. 13.250	28	.375	13.000	2.625	.083	19	1/2 NC X 1.500	105	100
14	XH 13.000	28	.375	12.750	2.625	.083	19	1/2 NC X 1.500	105	100
16	STD, 15.250	32	.375	15.000	3.000	.188	19	1/2 NC X 1.750	274	268
16	XH 15.000	32	.375	14.750	3.000	.188	19	1/2 NC X 1.500	274	268
18	S/40 16.876	36	.375	16.625	3.375	.188	19	1/2 NC X 1.250	386	378
20	S/40 18.814	40	.375	18.814	3.750	.188	19	1/2 NC X 1.250	477	468
24	S/40 22.626	48	.375	22.626	4.500	.188	19	1/2 NC X 1.250	704	693