The Mack IRON WORKS COMPANY

124 WARREN ST. · P.O. BOX 5931 · SANDUSKY, OHIO 44871-5931
PHONE 419 626-6225 · FAX 419 626-3362

SANDUSKY MAC-IRON OHIO EST. 1901

NOM. PIPE SIZE	ALL DIM'S ARE INCHES EXCEPT FLOW AREA WHICH IS SQ.IN.	5S	10S	10	LW	20	30	STD	40S	40	60	80S	80	100	120	140	160	XS	XX
½	WALL THK.		.083					.109	.109	.109		.147	.147				.187	.147	.294
.840 O.D.	INSIDE DIA.		.674					.622	.622	.622		.546	.546				.466	.546	.252
	FLOW AREA		.357					.304	.304	.304		.234	.234				.171	.234	.050
¾	WALL THK.	.065	.083					.113	.113	.113		.154	.154				.218	.154	.308
1.05 O.D.	INSIDE DIA.	.920	.884					.824	.824	.824		.742	.742				.614	.742	.434
	FLOW AREA	.664	.614					.533	.533	.533		.432	.432				.296	.432	.148
1	WALL THK.	.065	.109					.133	.133	.133		.179	.179				.250	.179	.358
1.315 O.D.	INSIDE DIA.	1.185	1.097					1.049	1.049	1.049		.957	.957				.815	.957	.599
	FLOW AREA	1.103	.945					.864	.864	.864		.719	.719				.522	.719	.282
1¼	WALL THK.	.065	.109					.140	.140	.140		.191	.191				.250	.191	.382
1.660 O.D.	INSIDE DIA.	1.530	1.442					1.380	1.380	1.380		1.278	1.278				1.160	1.278	.896
	FLOW AREA	1.839	1.633					1.496	1.496	1.496		1.283	1.283				1.057	1.283	.630
1½	WALL THK.	.065	.109					.145	.145	.145		.200	.200				.281	.200	.400
1.900 O.D.	INSIDE DIA.	1.770	1.682					1.610	1.610	1.610		1.500	1.500				1.337	1.500	1.100
	FLOW AREA	2.461	2.222					2.036	2.036	2.036		1.767	1.767				1.404	1.767	.950
2	WALL THK.	.065	.109					.154	.154	.154		.218	.218				.343	.218	.436
2.375 O.D.	INSIDE DIA.	2.245	2.157					2.067	2.067	2.067		1.939	1.939				1.689	1.939	1.503
	FLOW AREA	3.958	3.654					3.356	3.356	3.356		2.953	2.953				2.240	2.953	1.774
2½	WALL THK.	.083	.120					.203	.203	.203		.276	.276				.375	.276	.552
2.875 O.D.	INSIDE DIA.	2.709	2.635					2.469	2.469	2.469		2.323	2.323				2.125	2.323	1.771
	FLOW AREA	5.760	5.450					4.790	4.790	4.790		4.240	4.240				3.550	4.240	2.460
3	WALL THK.	.083	.120					.216	.216	.216		.300	.300				.438	.300	.600
3.500 O.D.	INSIDE DIA.	3.334	3.260					3.068	3.068	3.068		2.900	2.900				2.624	2.900	2.300
	FLOW AREA	8.730	8.350					7.390	7.390	7.390		6.600	6.600				5.410	6.600	4.150
3½	WALL THK.	.083	.120					.226	.226	.226		.318	.318					.318	
4.000 O.D.	INSIDE DIA.	3.834	3.760					3.548	3.548	3.548		3.364	3.364					3.364	
	FLOW AREA	11.55	11.10					9.89	9.89	9.89		8.89	8.89					8.89	
4	WALL THK.	.083	.120		.188			.237	.237	.237		.337	.337		.438		.531	.337	.674
4.500 O.D.	INSIDE DIA.	4.334	4.260		4.124			4.026	4.026	4.026		3.826	3.826		3.624		3.438	3.826	3.152
	FLOW AREA	14.75	14.25		13.36			12.73	12.73	12.73		11.50	11.50		10.31		9.28	11.50	7.80
5	WALL THK.	.109	.134					.258	.258	.258		.375	.375		.500		.625	.375	.750
5.563 O.D.	INSIDE DIA.	5.345	5.295					5.047	5.047	5.047		4.813	4.813		4.563		4.313	4.813	4.063
	FLOW AREA	22.43	22.02					20.01	20.01	20.01		18.19	18.19		16.35		14.61	18.19	12.97
6	WALL THK.	.109	.134		.219			.280	.280	.280		.432	.432		.562		.718	.432	.864
6.625 O.D.	INSIDE DIA.	6.407	6.357		6.187			6.065	6.065	6.065		5.761	5.761		5.501		5.189	5.761	4.897
	FLOW AREA	32.20	31.70		30.10			28.90	28.90	28.90		26.10	26.10		23.80		21.10	26.10	18.80
8	WALL THK.	.109	.148		.219	.250	.277	.322	.322	.322	.406	.500	.500	.593	.718	.812	.906	.500	.875
8.625 O.D.	INSIDE DIA.	8.407	8.329		8.187	8.125	8.071	7.981	7.981	7.981	7.813	7.625	7.625	7.439	7.189	7.001	6.813	7.625	6.875
	FLOW AREA	55.50	54.50		52.60	51.80	51.20	50.00	50.00	50.00	47.90	45.70	45.70	43.50	40.60	38.50	36.50	45.70	37.10
10	WALL THK.	.134	.165		.219	.250	.307	.365	.365	.365	.500	.500	.593	.718	.843	1.000	1.125	.500	
10.750 O.D.	INSIDE DIA.	10.482	10.420		10.310	10.250	10.136	10.020	10.020	10.020	9.750	9.750	9.564	9.314	9.064	8.750	8.500	9.750	
	FLOW AREA	86.30	85.30		83.50	82.50	80.70	78.90	78.90	78.90	74.70	74.70	71.80	68.10	64.50	60.10	56.70	74.70	
12	WALL THK.	.156	.180		.250	.250	.330	.375	.375	.406	.562	.500	.687	.843	1.000	1.125	1.312	.500	
12.750 O.D.	INSIDE DIA.	12.438	12.390		12.250	12.250	12.090	12.000	12.000	11.938	11.626	11.750	11.376	11.064	10.750	10.500	10.126	11.750	
	FLOW AREA	121.50	120.60		117.90	117.90	114.80	113.10	113.10	111.90	106.20	108.40	101.60	96.10	90.80	86.60	80.50	108.40	
14	WALL THK.	.156	.188	.250	.250	.312	.375	.375		.438	.593		.750	.937	1.093	1.250	1.406	.500	
14.0 O.D.	INSIDE DIA.	13.688	13.624	13.500	13.500	13.375	13.250	13.250		13.125	12.814		12.500	12.125	11.814	11.500	11.188	13.000	
	FLOW AREA	147.20	145.80	143.10	143.10	140.50	137.90	137.90		135.30	129.00		122.70	115.50	109.60	103.90	98.30	132.70	
16	WALL THK.	.169	.188	.250	.250	.312	.375	.375		.500	.656		.843	1.031	1.218	1.438	1.593	.500	
16.0 O.D.	INSIDE DIA.	15.670	15.624	15.500	15.500	15.375	15.250	15.250		15.000	14.688		14.314	13.938	13.564	13.124	12.814	15.000	
	FLOW AREA	192.90	191.70	188.70	188.70	185.70	182.70	182.70		176.70	169.40		160.90	152.60	144.50	135.30	129.00	176.70	
18	WALL THK.	.165	.188	.250	.250	.312	.438	.375		.562	.750		.937	1.156	1.375	1.562	1.781	.500	
18.0 O.D.	INSIDE DIA.	17.670	17.624	17.500	17.500	17.375	17.124	17.250		16.876	16.500		16.126	15.688	15.250	14.876	14.438	17.000	
	FLOW AREA	245.20	243.90	240.50	240.50	237.10	230.30	233.70		223.70	213.80		204.20	193.30	182.70	173.80	163.70	227.00	
20	WALL THK.	.188	.218	.250	.250	.375	.500	.375		.593	.812		1.031	1.281	1.500	1.750	1.968	.500	
20.0 O.D.	INSIDE DIA.	19.624	19.564	19.500	19.500	19.250	19.000	19.250		18.814	18.376		17.938	17.438	17.000	16.500	16.064	19.000	
	FLOW AREA	302.50	300.60	298.60	298.60	291.00	283.50	291.00		278.00	265.20		252.70	238.80	227.00	213.80	202.70	283.50	
22	WALL THK.			.250	.250			.375										.500	
22.0 O.D.	INSIDE DIA.			21.500	21.500			21.250										21.000	
	FLOW AREA			363.00	363.00			355.00										346.00	
24	WALL THK.	.218	.250	.250	.250	.375	.562	.375		.687	.968		1.218	1.531	1.812	2.062	2.343	.500	
24.0 O.D.	INSIDE DIA.	23.564	23.500	23.500	23.500	23.250	22.876	23.250		22.626	22.064		21.564	20.938	20.376	19.876	19.314	23.000	
	FLOW AREA	436.00	434.00	434.00	434.00	425.00	411.00	425.00		402.00	382.00		365.00	344.00	326.00	310.00	293.00	415.00	
26	WALL THK.							.375										.500	
26.0 O.D.	INSIDE DIA.							25.250										25.000	
	FLOW AREA							501.00										491.00	
28	WALL THK.							.375										.500	
28.0 O.D.	INSIDE DIA.							27.250										27.000	
	FLOW AREA							583.00										573.00	
30	WALL THK.	.250	.312	.312		.500	.625	.375										.500	
30.0 O.D.	INSIDE DIA.	29.500	29.376	29.376		29.000	28.750	29.250										29.000	
	FLOW AREA	683.00	678.00	678.00		661.00	649.00	672.00										661.00	
32	WALL THK.							.375										.500	
32.0 O.D.	INSIDE DIA.							31.250										31.000	
	FLOW AREA							767.00										755.00	
34	WALL THK.							.375										.500	
34.0 O.D.	INSIDE DIA.							33.250										33.000	
	FLOW AREA							868.00										855.00	
36	WALL THK.							.375										.500	
36.0 O.D.	INSIDE DIA.							35.250										35.000	
	FLOW AREA							976.00										962.00	
42	WALL THK.							.375										.500	
42.0 O.D.	INSIDE DIA.							41.250										41.000	
	FLOW AREA							1336.0										1320.0	