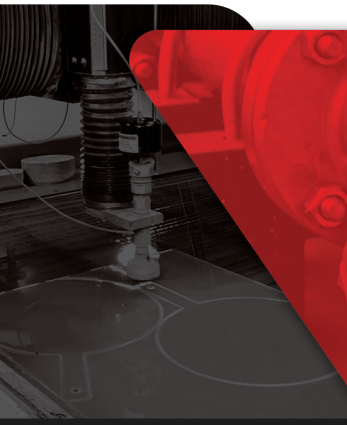


MACWELD machining

www.mac-weld.com

Revised (03/14/2023)

Paddle Orifice Plate

Mac-Weld paddle orifice plates are available in a variety of bore styles

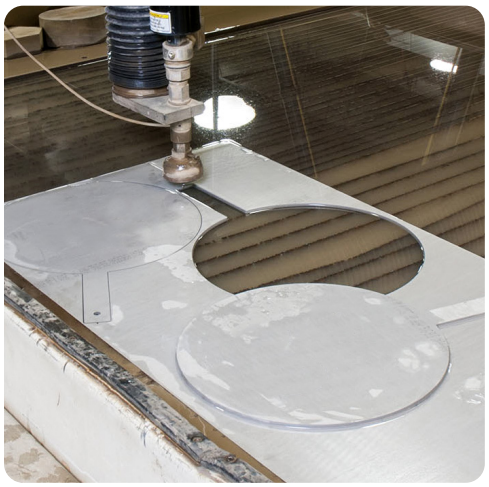


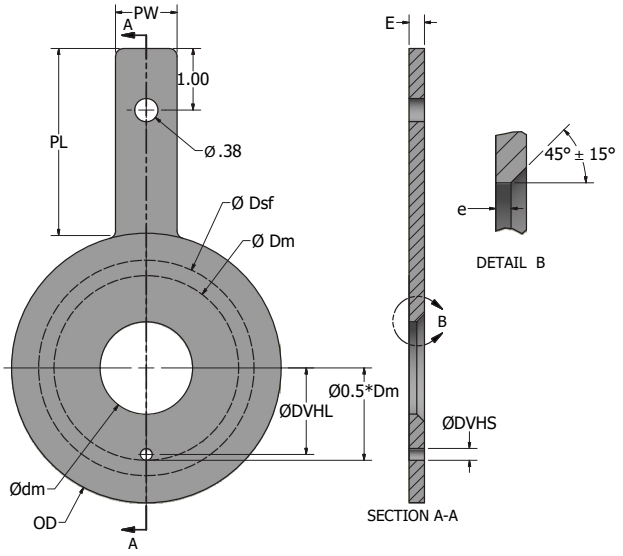
Mac-Weld orifice plates are manufactured to stringent requirements, only leaving our plant once they have passed rigorous testing.

Stainless steel plates are specifically purchased for the job required. Individual plates are water cut ensuring no heat distortion happens; distortion is a possibility with conventional cutting.

Features & Benefits:

- Standard sizes: 1/2" to 24" (also available in metric)
- Standard surface finish of 15 to 30 micro-inch
- Standard ratings from 150# to 2500# (also available in metric)
- Documentation and certificates available upon request
- Approved Canadian Registration Number (CRN) on most designs
- Orifice flange unions available upon request
- Available in various alloy materials including 316 Stainless Steel, Hastelloy®, Monel®, and other exotic alloys





Bore Styles:

- Beveled
- Restriction
- Quadrant
- Segmental
- Eccentric

1324 Lougar Ave Sarnia, ON N7S 5N7 | 1-877-MAC-WELD (622-9353) | sales@mac-weld.com | www.mac-weld.com

PADDLE TYPE ORIFICE PLATES

Line Size	150#	300#	600#	900#	1500#	2500#	All Ratings			Material Density	150#	300#	600#	900#	1500#	2500#
	O.D.	O.D.	O.D.	O.D.	O.D.	O.D.	E	W	L	lb./in³	Weight (lbs.)	Weight (lbs.)	Weight (lbs.)	Weight (lbs.)	Weight (lbs.)	Weight (lbs.)
1/2"	1.875	2.125	2.125	2.5	2.5	2.75	0.125	1	4	0.290	0.2	0.3	0.3	0.3	0.3	0.4
3/4"	2.25	2.625	2.625	2.75	2.75	3	0.125	1	4	0.290	0.3	0.3	0.3	0.4	0.4	0.4
1"	2.625	2.875	2.875	3.125	3.125	3.375	0.125	1	4	0.290	0.3	0.4	0.4	0.4	0.4	0.5
1-1/2'	3.375	3.75	3.75	3.875	3.875	4.625	0.125	1	4	0.290	0.5	0.5	0.5	0.6	0.6	0.8
2"	4.125	4.375	4.375	5.625	5.625	5.75	0.125	1	4	0.290	0.6	0.7	0.7	1.0	1.0	1.1
2-1/2"	4.875	5.125	5.125	6.5	6.5	6.625	0.125	1	4	0.290	0.8	0.9	0.9	1.3	1.3	1.4
3"	5.375	5.875	5.875	6.625	6.875	7.75	0.125	1	4	0.290	1.0	1.1	1.1	1.4	1.5	1.9
4"	6.875	7.125	7.625	8.125	8.25	9.25	0.125	1	4	0.290	1.5	1.6	1.8	2.0	2.1	2.6
5"	7.75	8.5	9.5	9.75	10	11	0.125	1	4	0.290	1.9	2.2	2.7	2.9	3.0	3.6
6"	8.75	9.875	10.5	11.375	11.125	12.5	0.125	1	4	0.290	2.3	2.9	3.3	3.8	3.7	4.6
8"	11	12.125	12.625	14.125	13.875	15.25	0.25	1.5	6	0.290	3.8	4.5	4.9	6.0	5.8	6.9
10"	13.375	14.25	15.75	17.125	17.125	18.75	0.25	1.5	6	0.290	5.4	6.1	7.4	8.7	8.7	10.3
12"	16.125	16.625	18	19.625	20.5	21.625	0.25	1.5	6	0.290	15.5	16.4	19.1	22.6	24.6	27.3
14"	17.75	19.125	19.375	20.5	22.75	—	0.375	1.5	6	0.290	18.6	21.5	22.0	24.6	30.1	—
16"	20.25	21.25	22.25	22.625	25.25	—	0.375	1.5	6	0.290	24.0	26.4	28.8	29.8	37.0	—
18"	21.5	23.375	24	25	27.625	—	0.375	1.5	6	0.290	27.0	31.8	33.5	36.2	44.1	—
20"	23.75	25.625	26.75	27.375	29.625	—	0.5	1.5	6	0.290	32.8	38.0	41.4	43.3	50.6	—
24"	28.125	30.375	31	32.875	35.375	—	0.5	1.5	6	0.290	45.7	53.2	55.4	62.2	71.9	—

Thicknesses displayed is a minimum plate thickness for square edge measuring plates. Quadrant edge, conical and restriction plates may require a greater thickness.

Bore Tolerances & Drain/Vent Dimensions

Tolerance for Orifice Plates	
Orifice Bore	+/- Tolerances
Less Than .250"	001
.250" to .499"	.001
.500 to 1.999"	.0010
2.000" to 3.999"	.0015
4.000" to 9.999"	.0020
10.000" to 19.999"	.0050
20.000" & up	.0100

Drain & Vent Dimensions			
Orifice Bore	Vent or Drain Hole G	Orifice Bore	Vent or Drain Hole G
Less Than 1.000"	None	8.376 to 9.250"	5/16"
1.000 to 3.500"	3/32"	9.251 to 10.000"	11/32"
3.501 to 4.125"	1/8"	10.0001 to 10.875"	3/8"
4.126 to 5.000"	5/32"	10.876 to 11.625"	13/32"
5.001 to 6.000"	3/16"	11.626 to 12.500"	7/16"
6.001 to 6.750"	7/32"	12.501 to 13.250"	15/32"
6.751 to 7.500"	1/4"	13.251" & Larger	1/2"
7.501 to 8.375"	9/32"		

Looking for our Paddle Plate Part Breakdown? Click here to download it today.

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