

AI Aspirating Cooling Nozzle

Delavan AI Nozzle – Rectangular Aerated Spray for use on Continuous Casting Machines

Increase Cooling Efficiency....Decrease Operating Costs
Delavan's patented *ASPIRFLO™* series nozzles can do both. By replacing conventional flat spray nozzles with the aspirating nozzle, you can increase cooling efficiency up to 25%

Spray Characteristics

- Even aspirated spray
- Higher velocity than conventional nozzles
- Increase droplet surface areas
- Uses free air
- Available spray angles 40°, 80°, 110°, 140°

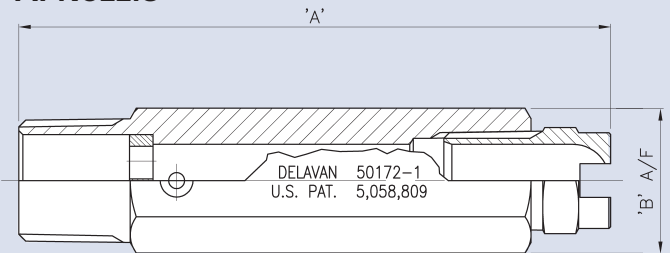
Construction and Materials

- Brass or 303 stainless steel
- Available in 1/2, 3/4 or 1" thread
- Stainless Steel metering orifice
- Replaceable tip

Maximum Design Pressure: 200 PSI (14 Bar)
Maximum Design Temperature: 500°F (260°C)



AI Nozzle



Dimensions

Pipe Size	Dimensions in (cm)	
	A	B
1/2"	4.18 (10.6)	0.87 (2.2)
3/4"	5.03 (12.8)	1.06 (2.7)
1"	6.15 (15.6)	1.37 (3.5)

Type AI Capacity Chart based on water

Pipe Size	Nozzle Number	Capacity GPM at PSIG pressure								Capacity L/min at Bar G Pressure							
		10	20	40	60	80	100	150	200	0.7	1.4	3	4	5	7	10	14
1/2	AI 4	2.0	2.8	4.0	4.9	5.6	6.3	7.7	8.9	7.6	10.6	15.1	18.6	21.2	23.9	29.2	33.7
1/2	AI 6	3.0	4.3	6.0	7.3	8.4	9.5	11.6	13.4	11.4	16.3	22.7	27.6	31.8	36.0	43.9	50.7
1/2	AI 8	4.0	5.7	8.0	9.8	11.3	12.6	15.5	17.9	15.1	21.6	30.3	37.1	42.8	47.7	58.7	67.8
1/2	AI 10	5.0	7.1	10.0	12.2	14.1	15.8	19.3	22.3	18.9	26.9	37.9	46.2	53.4	59.8	73.1	84.4
3/4	AI 12	6.0	8.5	12.0	14.6	16.9	18.9	23.2	26.8	22.7	32.2	45.4	55.3	64.0	71.5	87.8	101.5
3/4	AI14	7.0	9.9	14.0	17.1	19.7	22.1	27.1	31.3	26.5	37.5	53.0	64.7	74.6	81.0	102.6	118.5
3/4	AI 16	8.0	11.4	16.0	19.5	22.5	25.3	30.9	35.8	30.3	43.2	60.6	73.8	85.2	95.8	117.0	135.5
3/4	AI18	9.0	12.8	18.0	21.9	25.4	28.4	34.8	40.2	34.1	48.5	68.1	83.0	96.2	105.0	131.7	152.2
1	AI 20	10.0	14.2	20.0	24.4	28.2	31.6	38.7	44.7	37.9	53.8	75.7	92.4	106.8	115.6	146.5	169.2
1	AI 22	11.0	15.6	22.0	26.8	31.0	34.8	42.6	49.2	41.6	59.1	83.3	101.5	117.3	131.7	161.3	186.2
1	AI 24	12.0	17.0	24.0	29.3	33.8	37.9	46.5	53.7	45.4	65.4	90.9	110.9	127.9	143.5	176.0	203.3
1	AI 26	13.0	18.5	26.0	31.7	36.6	41.1	50.3	58.1	49.2	70.0	98.4	120.0	138.5	155.6	190.4	219.9



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