



ORIFICE DISC

MATERIAL:
HARDENED STAINLESS STEEL

Spraying Solutions Other Than Water

Since all the tabulations are based on spraying water, which weighs 8.34 lbs. per USA gallon, conversion factors must be used when spraying solutions which are heavier or lighter than water. To determine the proper size nozzle for the solution to be sprayed, first multiply the desired GPM or GPA of solution by the water rate conversion factor. Then use the new converted GPM or GPA rate to select the proper size nozzle.

Example : .15GPM(28%N)x1.13 = .17 GPM(water)

Weight of Solution	Specific Gravity	Conversion Factors
7.0 lbs. per gallon	.84	.92
8.0 lbs. per gallon	.96	.98
8.34 lbs. per gallon-WATER	1.00	1.00
9.0 lbs. per gallon	1.08	1.04
10.0 lbs. per gallon	1.20	1.10
10.65 lbs. per gallon-28% nitrogen	1.28	1.13
11.0 lbs. per gallon	1.32	1.15
12.0 lbs. per gallon	1.44	1.20
14.0 lbs. per gallon	1.68	1.30

ORIFICE DISC NO.	" A " ORIFICE DIA.	APPROX. CAPACITIES IN G.P.M. (GALLONS PER MINUTE) AT PRESSURES IN P.S.I. (POUNDS PER SQ. INCH)							
		5 PSI	10 PSI	15 PSI	20 PSI	25 PSI	30 PSI	35 PSI	40 PSI
D1	.031"	.04	.06	.07	.08	.09	.10	.11	.12
D1.5	.036"	.06	.08	.10	.11	.13	.14	.15	.16
D2	.041"	.07	.11	.13	.15	.17	.18	.20	.21
D3	.047"	.10	.14	.17	.20	.22	.24	.26	.28
D4	.063"	.18	.25	.31	.35	.40	.43	.47	.50
D5	.078"	.27	.39	.48	.55	.61	.67	.73	.78
D6	.094"	.40	.57	.69	.80	.89	.98	1.0	1.1
D7	.109"	.54	.76	.93	1.1	1.2	1.3	1.4	1.5
D8	.125"	.71	1.0	1.2	1.4	1.6	1.7	1.9	2.0
D10	.156"	1.1	1.6	1.9	2.2	2.5	2.7	2.9	3.1
D12	.188"	1.6	2.3	2.8	3.2	3.6	3.9	4.2	4.5
D14	.219"	2.2	3.1	3.8	4.4	4.9	5.4	5.8	6.2
D16	.250"	2.8	4.0	4.8	5.6	6.2	6.8	7.4	7.9

TABULATION IS BASED ON WATER AT TEMPERATURE OF 70°F.

DESCRIPTION:
CAPACITY TABULATION
FOR
ORIFICE DISCS



Spraying Systems Co.®

Spray Nozzles and Accessories
P.O. Box 7900 - Wheaton, Il. 60189-7900

Rev. No.

Data Sheet No.

24065

Ref.

SHEET OF