

# Standard Nozzle Selection Chart



Std. Nozzle (Size)* Number	Equiv. Orifice Diam. (inches)	Nozzle Flow (GPM) at Various Pressures (PSI)													
		250	500	600	700	800	1000	1200	1500	2000	2500	3000	3500	4000	5000
2.0	.034	.50	.71	.77	.80	.89	1.00	1.10	1.20	1.40	1.60	1.70	1.90	2.00	2.23
3.0	.043	.75	1.05	1.19	1.25	1.34	1.50	1.60	1.85	2.10	2.35	2.60	2.85	3.00	3.35
3.5	.048	.87	1.23	1.40	1.47	1.56	1.75	1.90	2.17	2.45	2.73	3.05	3.32	3.50	3.90
4.0	.052	1.00	1.40	1.60	1.70	1.80	2.00	2.20	2.50	2.80	3.10	3.50	3.80	4.00	4.50
4.5	.055	1.10	1.50	1.70	1.90	2.00	2.20	2.40	2.80	3.00	3.60	3.90	4.30	4.50	5.03
5.0	.057	1.30	1.80	1.90	2.10	2.20	2.50	2.80	3.10	3.80	4.00	4.40	4.70	5.00	5.60
5.5	.060	1.40	1.90	2.10	2.30	2.50	2.80	3.00	3.40	3.90	4.40	4.80	5.20	5.50	6.20
6.0	.062	1.50	2.10	2.30	2.50	2.70	3.00	3.20	3.70	4.20	4.80	5.20	5.60	6.00	6.70
6.5	.064	1.70	2.30	2.50	2.70	2.90	3.30	3.60	4.00	4.60	5.20	5.70	6.00	6.50	7.30
7.0	.067	1.80	2.50	2.70	2.90	3.10	3.50	3.80	4.30	5.00	5.60	6.10	6.60	7.00	7.80
7.5	.070	1.90	2.70	2.90	3.20	3.40	3.80	4.10	4.60	5.30	6.00	6.50	7.00	7.50	8.40
8.0	.072	2.00	2.80	3.10	3.40	3.60	4.00	4.40	5.00	5.60	6.20	7.00	7.50	8.00	8.90
8.5	.074	2.20	3.00	3.30	3.60	3.80	4.30	4.60	5.30	6.00	6.70	7.40	8.00	8.50	9.50
9.0	.076	2.30	3.20	3.50	3.80	4.00	4.50	5.00	5.50	6.40	7.10	7.80	8.50	9.00	10.10
9.5	.078	2.40	3.40	3.70	4.00	4.30	4.80	5.20	5.80	6.80	7.60	8.30	9.00	9.50	10.60
10.0	.080	2.50	3.50	3.90	4.20	4.50	5.00	5.40	6.10	7.00	8.00	8.70	9.40	10.00	11.20
12.0	.087	3.00	4.20	4.60	5.00	5.40	6.00	6.40	7.30	8.40	9.50	10.40	11.20	12.00	13.40
15.0	.094	3.80	5.30	5.80	6.40	6.80	7.50	8.20	9.20	10.60	12.00	12.90	14.00	15.00	16.80
20.0	.109	5.00	7.10	7.80	8.40	9.00	10.00	10.80	12.20	14.20	16.00	17.40	18.80	20.00	22.40
30.0	.141	7.50	10.60	11.60	12.80	13.60	15.00	16.40	18.40	21.20	24.00	26.00	28.00	30.00	33.50

**\*A commonly used standard for nozzle size is the "nozzle number" which is equivalent to the nozzle capacity in GPM at 4000 PSI. Spray angle does not affect nozzle flow.**

- If psi and nozzle gpm is known, then nozzle number can be calculated as follows:

$$\text{Nozzle number} = \text{gpm} \times \sqrt{\frac{4000}{\text{psi}}}$$

- If psi and nozzle number is known, then gpm can be calculated as follows:

$$\text{gpm} = \text{nozzle number} \times \sqrt{\frac{\text{psi}}{4000}}$$

- If gpm and nozzle number is known, then psi can be calculated as follows:

$$\text{psi} = \left( \frac{\text{gpm}}{\text{nozzle number}} \right)^2 \times 4000$$