

# WATER FLOW RATE in Gallons per Minute (GPM) as a function of Pressure (PSI) and Orifice Size

## Water Flow Rate Chart

Pressure PSI	Orifice Size									
	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.011	0.012
30,000	0.03	0.06	0.09	0.13	0.18	0.23	0.29	0.36	0.44	0.52
35,000	0.04	0.06	0.10	0.14	0.19	0.25	0.32	0.39	0.47	0.56
40,000	0.04	0.07	0.10	0.15	0.20	0.27	0.34	0.42	0.51	0.60
45,000	0.04	0.07	0.11	0.16	0.22	0.28	0.36	0.44	0.54	0.64
50,000	0.04	0.08	0.12	0.17	0.23	0.30	0.38	0.47	0.56	0.67
55,000	0.04	0.08	0.12	0.18	0.24	0.31	0.40	0.49	0.59	0.70
60,000	0.05	0.08	0.13	0.18	0.25	0.33	0.41	0.51	0.62	0.74

Pressure PSI	Orifice Size										
	0.013	0.014	0.015	0.016	0.017	0.018	0.019	0.020	0.021	0.022	0.023
30,000	0.61	0.71	0.81	0.93	1.04	1.17	1.30	1.44	1.57	1.74	1.91
35,000	0.66	0.77	0.88	1.00	1.12	1.26	1.40	1.56	1.72	1.88	2.06
40,000	0.71	0.82	0.94	1.06	1.20	1.35	1.50	1.66	1.84	2.01	2.20
45,000	0.75	0.87	1.00	1.13	1.27	1.43	1.59	1.77	1.95	2.14	2.34
50,000	0.79	0.91	1.04	1.19	1.34	1.51	1.68	1.86	2.05	2.25	2.46
55,000	0.83	0.96	1.10	1.25	1.41	1.58	0.18	1.95	2.15	2.36	2.58
60,000	0.86	1.00	1.15	1.31	1.48	1.66	1.85	2.04	2.25	2.47	2.70

Pressure PSI	Orifice Size									
	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.011	0.012
75,000	0.05	0.09	0.14	0.21	0.28	0.37	0.46	0.55	0.69	0.82
80,000	0.05	0.09	0.15	0.21	0.29	0.38	0.48	0.57	0.71	0.85
85,000	0.06	0.10	0.15	0.22	0.30	0.39	0.49	0.59	0.74	0.88

Pressure PSI	Orifice Size		
	0.013	0.014	0.015
75,000	0.97	1.12	1.29
80,000	1.00	1.16	1.33
85,000	1.03	1.19	1.37

### Pump Capacities\*

Pump Capacities*	GPM 60000	Max Orifice	GPM 94000	Max Orifice
10HP	0.24	0.007	-	
15HP	0.31	0.008	-	
30HP	0.60	0.010	-	
50HP	1.00	0.014	0.63	0.010
100HP	2.00	0.020	1.365	0.015
75HP EF	1.50	0.017		
150HP EF	3.00	0.024		

\*Pump will not be able to stroke fast enough to maintain pressure for larger orifices.