

NOZZLE PERFORMANCE DATA

		NOZZLE SIZE (GPM @ 40 PSI)																		
		02	03	035	04	045	05	055	06	065	07	075	08	085	09	10	12	15	20	30
PRESSURE IN (PSI) POUNDS PER SQUARE INCH	20	0.14	0.21	0.25	0.28	0.32	0.35	0.39	0.42	0.46	0.49	0.53	0.56	0.60	0.63	0.70	0.84	1.05	1.40	2.10
	40	0.20	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	1.00	1.20	1.50	2.00	3.00
	60	0.24	0.37	0.43	0.49	0.55	0.61	0.67	0.73	0.80	0.86	0.92	0.98	1.04	1.10	1.22	1.47	1.84	2.45	3.67
	80	0.28	0.42	0.49	0.57	0.64	0.71	0.78	0.85	0.92	0.99	1.06	1.13	1.20	1.27	1.41	1.70	2.12	2.83	4.24
	100	0.32	0.47	0.56	0.63	0.71	0.79	0.87	0.95	1.03	1.11	1.19	1.26	1.34	1.42	1.58	1.90	2.37	3.16	4.74
	120	0.35	0.52	0.62	0.69	0.78	0.87	0.95	1.04	1.13	1.21	1.30	1.39	1.47	1.56	1.73	2.08	2.60	3.46	5.20
	140	0.37	0.56	0.67	0.75	0.84	0.94	1.03	1.12	1.22	1.31	1.40	1.50	1.59	1.68	1.87	2.24	2.81	3.74	5.61
	160	0.40	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	2.00	2.40	3.00	4.00	6.00
	180	0.42	0.64	0.75	0.85	0.95	1.06	1.17	1.27	1.38	1.48	1.59	1.70	1.80	1.91	2.12	2.55	3.18	4.24	6.36
	200	0.45	0.67	0.78	0.89	1.01	1.12	1.23	1.34	1.45	1.57	1.68	1.79	1.90	2.01	2.24	2.68	3.35	4.47	6.71
	225	0.47	0.71	0.83	0.95	1.07	1.19	1.30	1.42	1.54	1.66	1.78	1.90	2.02	2.13	2.37	2.85	3.56	4.74	7.12
	250	0.50	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13	2.25	2.50	3.00	3.75	5.00	7.50
	275	0.52	0.79	0.92	1.05	1.18	1.31	1.44	1.57	1.70	1.84	1.97	2.10	2.23	2.36	2.62	3.15	3.93	5.24	7.87
	300	0.55	0.82	0.96	1.10	1.23	1.37	1.51	1.64	1.78	1.92	2.05	2.19	2.33	2.46	2.74	3.29	4.11	5.48	8.22
	350	0.59	0.89	1.04	1.18	1.33	1.48	1.63	1.77	1.92	2.07	2.22	2.37	2.51	2.66	2.96	3.55	4.44	5.92	8.87
	400	0.63	0.95	1.11	1.26	1.42	1.58	1.74	1.90	2.06	2.21	2.37	2.53	2.69	2.85	3.16	3.79	4.74	6.32	9.49
450	0.67	1.01	1.18	1.34	1.51	1.68	1.84	2.01	2.18	2.35	2.52	2.68	2.85	3.02	3.35	4.02	2.03	6.71	10.06	
500	0.71	1.06	1.24	1.41	1.59	1.77	1.94	2.12	2.30	2.47	2.65	2.83	3.01	3.18	3.54	4.24	5.30	7.07	10.61	

Pump & System Guidance

The restriction of the nozzle creates the spraying pressure. The pump only pumps water; it does not create pressure. Selection of the correct nozzle size is essential to attain desired pressure. Note: Worn nozzles are the typical cause of low spraying pressure. Install new nozzle(s) before adjusting pressure regulator. Pumptec recommends using only SS nozzles for their high performance systems.

Systems pressure, in bypass is created by the pressure regulator which functions like a variable nozzle. Adjust regulator bypass pressure to 25 PSI above spraying pressure created by nozzle.

Inlet water supply lines must be in a continuous downward slope to pump from the supply tank. This allows air to escape, the pump to prime quickly, and the system to operate smoothly.