



CHIEF NOZZLE FLOW

The flow and effective reach data found on the following pages is compiled and updated by our engineering staff in the testing area of our assembly department. The flow is determined by an electronic flowmeter while a piezometer gauge at the base/inlet of the nozzle establishes the “nozzle pressure.”

The effective reach is determined by elevating the nozzle to 32 degrees above horizontal and at a height of 4’ above ground level. The reach of Straight Stream, Narrow Fog (30 degrees) and Wide Fog (90 degrees) are then established by measuring where the last water droplets are falling at ground level. These tests are conducted in “still air” conditions, so the actual results will vary depending upon conditions.

Catalog No.	GPM	Stream Setting	Discharge in U.S. GPM								Effective Reach in Feet							
			Nozzle Pressure PSI								Nozzle Pressure PSI							
			40	50	75	100	125	150	175	200	40	50	75	100	125	150	175	200
4000-01 4000-02 4000-03 4000-04	15	SS	—	48	56	58	61	63	65	66	—	48	56	58	61	63	65	66
		Narrow Fog	9	11	12	15	17	18	20	22	—	20	22	24	26	28	31	32
		Wide Fog	—	11	14	15	17	19	21	22	—	11	14	15	17	19	21	22
	30	SS	—	65	70	81	85	90	91	92	—	65	70	81	85	90	91	92
		Narrow Fog	20	22	26	30	34	37	39	41	—	30	35	41	44	47	48	49
		Wide Fog	—	15	16	19	21	23	25	26	—	15	16	19	21	23	25	26
	45	SS	—	69	75	85	91	96	98	101	—	69	75	85	91	96	98	101
		Narrow Fog	32	35	40	45	49	52	56	58	—	32	37	44	46	48	50	51
		Wide Fog	—	17	18	21	23	25	26	28	—	17	18	21	23	25	26	28
4000-10 4000-11 4000-12 4000-13 4000-14 4000-15 4000-18 4000-19	60	SS	69	76	89	96	104	110	115	124	69	76	89	96	104	110	115	124
		Narrow Fog	38	43	51	60	68	76	—	—	38	41	44	49	55	61	66	71
		Wide Fog	31	33	35	41	43	47	51	58	31	33	35	41	43	47	51	58
	75	SS	73	81	94	103	111	118	—	—	73	81	94	103	111	118	—	—
		Narrow Fog	53	58	65	75	84	92	—	—	39	41	45	52	57	62	—	—
		Wide Fog	29	30	31	33	37	40	—	—	29	30	31	33	37	40	—	—
	95	SS	77	86	101	111	118	126	130	138	77	86	101	111	118	126	130	138
		Narrow Fog	63	68	83	95	107	115	—	—	40	41	46	55	59	64	67	70
		Wide Fog	29	30	33	36	40	44	47	51	29	30	33	36	40	44	47	51
125	SS	78	86	103	113	121	128	138	146	78	86	103	113	121	128	138	146	
	Narrow Fog	82	91	110	125	140	153	—	—	44	48	55	62	67	71	77	84	
	Wide Fog	32	36	39	44	49	52	56	59	32	36	39	44	49	52	56	59	
	SS	80	89	108	124	138	148	156	162	80	89	108	124	138	148	156	162	
	Narrow Fog	97	107	132	150	169	182	—	—	46	51	53	56	58	60	62	64	
	Wide Fog	34	37	43	46	48	51	52	55	34	37	43	46	48	51	52	55	
4014-HR @ 50	SS	91	101	117	132	148	—	—	—	91	101	117	132	148	—	—	—	
	Narrow Fog	157	175	214	247	277	—	—	—	51	54	61	73	78	—	—	—	
	Wide Fog	34	36	40	44	48	—	—	—	34	36	40	44	48	—	—	—	
4000-20 4000-21 4000-22 4000-23 4000-24 4000-25 4000-26 4000-27 4000-28 4000-29 4000-31 4000-35	175	SS	88	98	114	126	141	152	—	—	88	98	114	126	141	152	—	—
		Narrow Fog	111	124	150	175	192	210	—	—	47	51	59	69	76	81	—	—
		Wide Fog	32	34	36	39	44	48	—	—	32	34	36	39	44	48	—	—
	200	SS	88	91	101	117	132	148	—	—	88	91	101	117	132	148	—	—
		Narrow Fog	127	141	173	200	224	245	—	—	49	51	54	61	73	78	—	—
		Wide Fog	33	34	36	40	44	48	—	—	33	34	36	40	44	48	—	—
	250	SS	91	102	118	136	152	164	—	—	91	102	118	136	152	164	—	—
		Narrow Fog	172	192	230	256	290	320	—	—	53	56	62	70	79	83	—	—
		Wide Fog	35	40	43	47	51	54	—	—	35	40	43	47	51	54	—	—
325	SS	97	108	126	142	160	173	—	—	97	108	126	142	160	173	—	—	
	Narrow Fog	220	240	289	325	362	398	—	—	57	61	67	75	86	89	—	—	
	Wide Fog	39	43	47	52	55	59	—	—	39	43	47	52	55	59	—	—	
350	SS	97	108	126	142	154	—	—	—	97	108	126	142	154	—	—	—	
	Narrow Fog	221	247	303	350	391	—	—	—	57	61	67	77	84	—	—	—	
	Wide Fog	39	43	47	52	56	—	—	—	39	43	47	52	56	—	—	—	



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			40	50	75	100	125	150	175	200	40	50	75	100	125	150	175	200
4000-14 4000-16 4000-17 4000-18 4000-19*	*125 @ 75 PSI	SS									79	88	106	122	135	145	—	—
		Narrow Fog	91	102	125	144	161	176	—	—	45	50	52	55	57	59	—	—
		Wide Fog									34	37	43	46	48	51	—	—
	*150 @ 75 PSI	SS									82	91	110	126	140	150	—	—
		Narrow Fog	110	122	150	173	194	212	—	—	47	52	54	57	59	61	—	—
		Wide Fog									34	37	43	46	48	51	—	—
	175 @ 75 PSI	SS									85	94	113	130	—	—	—	—
		Narrow Fog	128	143	175	202	—	—	—	—	49	54	56	59	—	—	—	—
		Wide Fog									35	38	44	47	—	—	—	—
	150 @ 50 PSI	SS									87	96	115	133	—	—	—	—
		Narrow Fog	134	150	184	212	—	—	—	—	50	55	57	60	—	—	—	—
		Wide Fog									35	38	44	47	—	—	—	—
4000-20 4000-21 4000-22 4000-23 4000-24 4000-25 4000-26 4000-27 4000-28 4000-29 4000-31 4000-35	185 @ 75 PSI	SS								89	100	115	130	145	155	—	—	
		Narrow Fog	135	151	185	214	239	262	—	—	50	53	60	72	77	82	—	—
		Wide Fog									33	35	39	43	47	51	—	—
	200 @ 75 PSI	SS									91	101	117	132	148	159	—	—
		Narrow Fog	146	163	200	231	258	283	—	—	51	54	61	73	78	83	—	—
		Wide Fog									34	36	40	44	48	52	—	—
	250 @ 75 PSI	SS									93	103	118	137	154	165	—	—
		Narrow Fog	183	204	250	289	323	353	—	—	54	57	64	75	80	84	—	—
		Wide Fog									36	40	44	47	52	55	—	—
	275 @ 75 PSI	SS									95	105	122	139	156	—	—	—
		Narrow Fog	201	225	275	318	355	—	—	—	55	58	64	76	82	—	—	—
		Wide Fog									33	36	44	49	53	—	—	—
300 @ 75 PSI	SS									97	108	126	142	—	—	—	—	
	Narrow Fog	219	245	300	346	—	—	—	—	57	61	67	77	—	—	—	—	
	Wide Fog									39	43	47	52	—	—	—	—	
200 @ 50 PSI	SS									91	102	118	142	160	173	—	—	
	Narrow Fog	179	200	245	283	316	346	—	—	53	56	62	70	86	89	—	—	
	Wide Fog									35	40	43	52	55	59	—	—	
250 @ 50 PSI	SS									98	109	127	144	—	—	—	—	
	Narrow Fog	224	250	306	353	—	—	—	—	57	61	67	77	—	—	—	—	
	Wide Fog									3	43	47	52	—	—	—	—	