

CHIEF XD NOZZLE FLOW

The flow and effective reach data found on the following page 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 5' about ground level. The reach of Straight Stream is 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.

Size	Flow & Pressure	Stream Setting	Discharge in GPM					Effective Reach in Feet				
			Nozzle Pressure PSI					Nozzle Pressure PSI				
			40	50	75	100	125	40	50	75	100	125
Mid - Range	95 @ 100	SS	60	67	82	95	106	95	103	108	119	129
	125 @ 75	SS	91	102	125	144	161	105	114	141	154	172
	125 @ 100	SS	79	88	108	125	140	102	111	134	140	145
	150 @ 50	SS	134	150	184	212	237	111	127	150	167	178
	150 @ 75	SS	110	122	150	173	194	113	128	154	169	175
	150 @ 100	SS	95	106	130	150	168	118	132	156	169	182
	175 @ 75	SS	128	143	175	202	226	126	140	167	187	203
	175 @ 100	SS	111	124	152	175	196	120	132	159	175	184
	160 @ 50	SS	143	160	196	226	253	128	142	170	191	205
	175 @ 50	SS	157	175	214	247	277	122	131	151	166	181
High - Range (2.5")	185 @ 75	SS	135	151	185	214	239	126	144	170	186	206
	200 @ 75	SS	146	163	200	231	258	131	146	171	188	203
	185 @ 50	SS	165	185	227	262	293	126	144	162	170	183
	210 @ 50	SS	188	210	257	297	332	128	142	168	184	205
	250 @ 50	SS	224	250	306	354	395	126	145	168	179	183
	250 @ 75	SS	183	204	250	289	323	118	135	163	179	204
	250 @ 100	SS	158	177	217	250	280	117	133	155	184	202
	265 @ 50	SS	237	265	325	375	419	114	126	144	155	163
300 @ 75	SS	219	245	300	346	387	121	132	157	174	186	

Date: 7/26/2017