

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.

Elkhart Brass Hard Facts Calculator app available now! Quick flow and pressure calculations for every situation at your fingertips!



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	
4000-02 4000-03 4000-04	15	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		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	
	30	SS	—	—	—	—	—	—	—	—	—	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	
	45	SS	—	—	—	—	—	—	—	—	—	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	
	4000-10 4000-12 4000-13 4000-14 4000-19	60	SS	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
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	—	—	
95		SS	77	86	101	111	118	118	—	—	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	
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	
150	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		
4014-HR	175 @ 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	—	—	—	
	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	—	—	
	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	—	—	
	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	—	—	
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	—	—		
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	—	—	—		
4000-14 4000-16 4000-17 4000-18 4000-19	*125 @ 75 PSI	SS	79	88	106	122	135	145	—	—	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	—	—	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	—	—	—	—	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	—	—	—	—	87	96	115	133	—	—	—	—	
		Narrow Fog	134	150	184	212	—	—	—	—	50	55	57	60	—	—	—	—	
		Wide Fog	—	—	—	—	—	—	—	—	35	38	44	47	—	—	—	—	

TECHNICAL DATA



NOZZLE FLOW

TECHNICAL DATA

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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			
CHIEF® 4000-20 4000-22 4000-23 4000-24 4000-26 4000-28	185 @ 75 PSI	SS																			
		Narrow Fog	135	151	185	214	239	262	—	—	89	100	115	130	145	155	—	—			
		Wide Fog									33	35	39	43	47	51	—	—			
	200 @ 75 PSI	SS																			
		Narrow Fog	146	163	200	231	258	283	—	—	91	101	117	132	148	159	—	—			
		Wide Fog									51	54	61	73	78	83	—	—			
	250 @ 75 PSI	SS																			
		Narrow Fog	183	204	250	289	323	353	—	—	93	103	118	137	154	165	—	—			
		Wide Fog									54	57	64	75	80	84	—	—			
	275 @ 75 PSI	SS																			
		Narrow Fog	201	225	275	318	355	—	—	—	95	105	122	139	156	—	—	—	—	—	—
		Wide Fog									55	58	64	76	82	—	—	—	—	—	—
300 @ 75 PSI	SS																				
	Narrow Fog	219	245	300	346	—	—	—	—	97	108	126	142	—	—	—	—	—	—	—	
	Wide Fog									57	61	67	77	—	—	—	—	—	—	—	
200 @ 50 PSI	SS																				
	Narrow Fog	179	200	245	283	316	346	—	—	91	102	118	142	160	173	—	—				
	Wide Fog									53	56	62	70	86	89	—	—				
250 @ 50 PSI	SS																				
	Narrow Fog	224	250	306	353	—	—	—	—	98	109	127	144	—	—	—	—	—	—	—	
	Wide Fog									57	61	67	77	—	—	—	—	—	—	—	

Catalog No.	Stream Setting	Discharge in U.S. GPM											Effective Reach in Feet										
		Nozzle Pressure PSI											Nozzle Pressure PSI										
		50	60	70	75	80	85	90	95	100	105	110	50	60	70	75	80	85	90	95	100	105	110
SM-3F Series TSM-3F	SS																						
	Narrow Fog	5	7	9	11	14	17	22	30	35	47	56	—	—	—	52	53	55	64	72	77	94	98
	Wide Fog												—	—	—	22	25	27	33	36	39	46	48
SM-10-FE	SS																						
	Narrow Fog	20	22	24	25	26	27	28	32	51	81	120	60	62	64	66	68	70	74	79	85	93	110
	Wide Fog												30	31	32	33	34	35	36	38	44	50	60
SM-10F Series TSM-10F	SS																						
	Narrow Fog	40	43	46	48	50	52	57	65	100	130	148	—	—	—	78	80	82	84	88	98	104	112
	Wide Fog												—	—	—	42	43	46	48	52	65	69	72
SM-20F Series TSM-20F	SS																						
	Narrow Fog	50	55	64	73	87	105	130	170	212	234	245	—	—	—	88	96	103	114	120	124	126	—
	Wide Fog												—	—	—	50	52	55	58	60	62	63	—
SM-20-FLP Series TSM-20FLP	SS																						
	Narrow Fog	50	67	156	204	—	—	—	—	—	—	—	69	75	108	115	—	—	—	—	—	—	—
	Wide Fog												38	40	55	60	—	—	—	—	—	—	—
SM-30F Series TSM-30F	SS																						
	Narrow Fog	50	69	88	112	150	190	226	264	300	324	342	—	—	—	105	120	133	137	141	145	148	—
	Wide Fog												—	—	—	69	75	75	75	76	76	76	—
SM-30-FLP Series TSM-30FLP	SS																						
	Narrow Fog	50	100	225	325	—	—	—	—	—	—	—	—	—	—	135	140	145	—	—	—	—	—
	Wide Fog												—	—	—	70	75	75	—	—	—	—	—

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					
PHANTOM® PSFS-HP PSFS-HPG TPSFS-HP TPSFS-HPPT	15	SS																					
		Narrow Fog	9	11	12	15	17	18	20	22	45	48	56	58	61	63	65	66					
		Wide Fog									19	20	22	24	26	28	31	32					
	30	SS																					
		Narrow Fog	20	22	26	30	34	37	39	41	10	11	14	15	17	19	21	22					
		Wide Fog									63	65	70	81	85	90	91	92					
	45	SS																					
		Narrow Fog	32	35	40	45	49	52	56	58	28	30	35	41	44	47	48	49					
		Wide Fog									14	15	16	19	21	23	25	26					
	60	SS																					
		Narrow Fog	39	43	52	60	66	72	78	84	67	69	75	85	91	96	98	101					
		Wide Fog									30	32	37	44	46	48	50	51					
95	SS																						
	Narrow Fog	22	24	30	35	39	NA	—	—	16	17	18	21	23	25	26	28						
	Wide Fog									69	74	85	94	100	104	109	113						
SFM-LP SFM-LPG TSFM-LP TSFM-LPT	SS																						
	Narrow Fog	39	43	52	60	66	72	78	84	37	39	41	45	50	54	58	62						
	Wide Fog									27	28	30	36	40	42	47	55						
150	SS																						
	Narrow Fog	22	24	30	35	39	NA	—	—	60	62	67	78	82	—	—	—						
	Wide Fog									26	28	33	39	42	—	—	—						
200	SS																						
	Narrow Fog	110	122	150	173	194	NA	—	—	14	15	16	19	21	—	—	—						
	Wide Fog									75	84	99	109	116	—	—	—						

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
PHANTOM® SFM-HP SFM-HPG TSFM-HP TSFM-HPT	30	SS																
		Narrow Fog	20	22	26	30	34	37	—	—	28	30	35	41	44	47	—	—
		Wide Fog									14	15	16	19	21	23	—	—
	95	SS																
		Narrow Fog	63	68	83	95	107	115	—	—	40	41	46	55	59	64	—	—
		Wide Fog									29	30	33	38	40	44	—	—
	125	SS																
		Narrow Fog	82	91	110	125	140	153	—	—	43	45	51	60	66	70	—	—
		Wide Fog									31	33	36	41	43	47	—	—
	150	SS																
		Narrow Fog	97	107	132	150	169	182	—	—	46	49	55	64	70	74	—	—
		Wide Fog									33	35	38	43	45	49	—	—
200	SS																	
	Narrow Fog	126	141	173	200	224	245	—	—	52	54	63	72	78	82	—	—	
	Wide Fog									36	39	42	47	49	53	—	—	
MYSTERY® L-200 L-205-B L-205-BA L-205-BA D-200* 205-EB** 205-B* D-205-B* 205-BA D-205-BA	60	SS																
		Narrow Fog	39	43	41	60	68	75	81	86	68	75	92	103	110	115	120	123
		Wide Fog									36	38	45	50	55	60	70	75
	95	SS																
		Narrow Fog	65	73	88	101	112	122	130	136	27	28	32	35	38	42	48	54
		Wide Fog									76	83	100	107	115	120	125	130
	125	SS																
		Narrow Fog	81	89	111	126	141	157	172	187	41	45	55	65	70	75	85	95
		Wide Fog									28	30	36	43	49	55	60	65
	125 @ 75 PSI	SS																
		Narrow Fog	91	102	125	144	161	176	—	—	91	100	118	130	140	150	155	157
		Wide Fog									46	50	60	68	75	83	90	95
170	SS																	
	Narrow Fog	115	126	148	170	190	—	—	—	28	30	35	40	45	50	55	60	
	Wide Fog									84	92	95	96	102	105	108	115	
250	SS																	
	Narrow Fog	165	188	222	245	286	—	—	—	49	55	59	63	66	68	70	75	
	Wide Fog									31	32	34	35	38	42	44	47	
125 @ 75 PSI	SS																	
	Narrow Fog	91	102	125	144	161	176	—	—	87	94	99	103	107	110	112	120	
	Wide Fog									56	60	64	68	71	73	75	80	
200 @ 75 PSI	SS																	
	Narrow Fog	146	163	200	231	258	283	—	—	33	35	37	39	41	43	45	50	
	Wide Fog									81	89	92	95	99	104	—	—	
200 @ 50 PSI	SS																	
	Narrow Fog	179	200	245	245	316	—	—	—	43	50	54	57	61	63	—	—	
	Wide Fog									29	30	32	34	36	38	—	—	
200 @ 50 PSI	SS																	
	Narrow Fog	179	200	245	245	316	—	—	—	85	93	96	98	104	108	—	—	
	Wide Fog									52	56	62	65	69	71	—	—	
200 @ 50 PSI	SS																	
	Narrow Fog	179	200	245	245	316	—	—	—	32	34	35	37	40	43	—	—	
	Wide Fog									89	96	102	106	110	—	—	—	
200 @ 50 PSI	SS																	
	Narrow Fog	179	200	245	245	316	—	—	—	58	61	65	70	73	—	—	—	
	Wide Fog									35	37	39	40	42	—	—	—	

* 170 or 250 only ^ This nozzle does not produce a straight stream

Catalog No.	GPM	Stream Setting	Discharge in U.S. GPM							Effective Reach in Feet								
			Nozzle Pressure PSI							Nozzle Pressure PSI								
			50	75	100	150	200	300	400	500	50	75	100	150	200	300	400	500
SELECT-O-FLOW® SFS-O Series	10	SS																
		Narrow Fog	5	7	10	11	12	15	18	20	45	50	53	57	60	61	62	63
		Wide Fog									20	21	23	28	31	33	35	37
	20	SS																
		Narrow Fog	15	18	20	24	28	35	41	46	11	12	13	15	16	17	19	21
		Wide Fog									50	62	64	68	70	73	75	77
30	SS																	
	Narrow Fog	21	27	30	36	40	50	58	64	22	24	26	28	32	36	45	51	
	Wide Fog									15	17	19	23	25	27	30	33	
30	SS																	
	Narrow Fog	21	27	30	36	40	50	58	64	65	70	62	90	92	105	110	115	
	Wide Fog									30	35	40	46	48	50	55	59	
30	SS																	
	Narrow Fog	21	27	30	36	40	50	58	64	15	16	18	22	25	30	35	40	
	Wide Fog																	

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
SELECT-O-FLOW® SFL-O Series SFL-B SFL-N TSFLO L-205-EB NSL (95 GPM only)	40	SS																
		Narrow Fog	25	29	34	40	44	48	52	56	59	65	77	83	86	90	93	96
		Wide Fog									35	38	41	44	47	50	53	56
	60	SS																
		Narrow Fog	39	44	54	60	70	77	85	92	29	34	36	37	39	40	41	43
		Wide Fog									69	75	90	97	103	110	116	123
	95	SS																
		Narrow Fog	59	67	82	95	105	114	123	132	38	40	45	50	55	60	65	70
		Wide Fog									31	32	35	40	44	48	52	57
	125	SS																
		Narrow Fog	79	88	105	125	140	154	168	182	77	85	102	110	117	124	131	183
		Wide Fog									39	41	47	54	60	63	66	69
60	SS																	
	Narrow Fog	39	43	51	60	68	75	81	86	28	30	34	38	41	45	49	52	
	Wide Fog									77	85	102	112	120	129	138	146	
95	SS																	
	Narrow Fog	65	73	86	101	112	122	130	136	45	48	55	61	66	72	78	83	
	Wide Fog									33	35	40	45	48	52	56	59	
125	SS																	
	Narrow Fog	81	89	111	126	141	157	172	187	36	38	45	50	55	60	70	75	
	Wide Fog									27	28	32	35	38	42	48	54	
125	SS																	
	Narrow Fog	81	89	111	126	141	157	172	187	41	45	55	65	70	75	85	95	
	Wide Fog									28	30	36	43	49	55	60	65	
125	SS																	
	Narrow Fog	81	89	111	126	141	157	172	187	46	50	60	68	75	83	90	95	
	Wide Fog									28	30	35	40	45	50	55	60	

TECHNICAL DATA



NOZZLE FLOW

TECHNICAL DATA

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SELECT-O-FLOW®	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	
SF	125	SS	83	90	110	125	141	153	167	179	70	80	103	122	136	—	—	—		
			Narrow Fog	83	90	110	125	141	153	167	179	33	35	40	45	50	—	—	—	
			Wide Fog	18	20	25	30	35	—	—	—	18	20	25	30	35	—	—	—	
	TSF	175	SS	108	120	139	175	194	211	227	244	86	98	113	127	140	—	—	—	
				Narrow Fog	108	120	139	175	194	211	227	244	46	50	60	70	75	—	—	—
				Wide Fog	31	32	35	40	45	—	—	—	31	32	35	40	45	—	—	—
DSF	250	SS	160	180	218	250	280	304	327	351	81	92	116	133	149	—	—	—		
			Narrow Fog	160	180	218	250	280	304	327	351	43	46	54	61	68	—	—	—	
			Wide Fog	28	30	36	40	45	—	—	—	28	30	36	40	45	—	—	—	

SELECT-O-STREAM®	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
L-O Series	40	SS	26	28	35	41	47	51	55	58	53	60	73	61	85	86	86.5	87	
			Narrow Fog	26	28	35	41	47	51	55	58	37	40	42	43	44	45	48	50
			Wide Fog	26	28	30	31	32	33	34	35	26	28	30	31	32	33	34	35
	60	SS	39	43	41	60	68	75	81	86	68	75	92	103	110	115	120	123	
			Narrow Fog	39	43	41	60	68	75	81	86	36	38	45	50	55	60	70	75
			Wide Fog	27	28	32	35	38	42	48	54	27	28	32	35	38	42	48	54
	95	SS	65	73	88	101	112	122	130	136	76	83	100	107	115	120	125	130	
			Narrow Fog	65	73	88	101	112	122	130	136	41	45	55	65	70	75	85	95
			Wide Fog	28	30	36	43	49	55	60	65	28	30	36	43	49	55	60	65
	125	SS	81	89	111	126	141	157	172	187	91	100	118	130	140	150	155	157	
			Narrow Fog	81	89	111	126	141	157	172	187	46	50	60	68	75	83	90	95
			Wide Fog	28	30	35	40	45	50	55	60	28	30	35	40	45	50	55	60
D	170	SS	85	100	122	142	163	—	—	—	84	92	100	108	115	—	—	—	
			Narrow Fog	103	114	139	162	178	—	—	—	49	55	65	70	75	—	—	—
			Wide Fog	139	154	185	213	234	—	—	—	31	32	37	44	47	—	—	—
	250	SS	98	108	127	145	160	—	—	—	87	94	105	112	120	—	—	—	
			Narrow Fog	156	173	210	245	278	—	—	—	56	60	70	75	80	—	—	—
			Wide Fog	203	225	278	323	368	—	—	—	33	35	40	45	50	—	—	—

SPECIAL USE NOZZLES	Catalog No.	GPM	Stream Setting	Discharge in U.S. GPM						Effective Reach in Feet									
				Nozzle Pressure PSI						Nozzle Pressure PSI									
				50	75	100	150	200	300	400	500	50	75	100	150	200	300	400	500
S-205-B	12	SS	46	55	59	64	68	-	-	-	46	55	59	64	68	-	-	-	
			Narrow Fog	11	12	14	17	18	-	-	-	25	32	34	36	38	-	-	-
			Wide Fog	15	18	20	23	25	-	-	-	15	18	20	23	25	-	-	-
S-205-BAF	23	SS	53	65	75	81	83	-	-	-	53	65	75	81	83	-	-	-	
			Narrow Fog	20	25	27	32	37	-	-	-	40	43	45	55	60	-	-	-
			Wide Fog	24	26	30	37	39	-	-	-	24	26	30	37	39	-	-	-

CELLAR/BRESNAN	Catalog No.	GPM	Stream Setting	Discharge in U.S. GPM						Effective Reach in Feet									
				Nozzle Pressure PSI						Nozzle Pressure PSI									
				40	50	60	70	80	90	100	125	40	50	60	70	80	90	100	125
LR	—	—	—	99	114	124	133	144	154	160	179	—	—	—	—	—	—	—	—
R	—	—	—	227	253	276	296	317	335	353	395	—	—	—	—	—	—	—	—
193-6(1.5)	—	—	—	91	101	110	117	125	133	140	157	—	—	—	—	—	—	—	—
193-6(2.5)	—	—	—	262	287	312	335	356	375	394	441	—	—	—	—	—	—	—	—
193-9(2.5)	—	—	—	325	360	390	419	446	471	495	553	—	—	—	—	—	—	—	—

CHIEF XD	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	1.5"	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
		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
High - Range (2.5")	2.5"	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

For more info on the Chief XD, engine company education, and fact based equipment selection visit BrassTacksHardFacts.com

5000E	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
5000-04E	15	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	9	11	12	15	17	18	20	22	—	48	56	58	61	63	65	66
			Wide Fog	—	—	—	—	—	—	—	—	—	20	22	24	26	28	31	32
	30	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	20	22	26	30	34	37	39	41	—	65	70	81	85	90	91	92
			Wide Fog	—	—	—	—	—	—	—	—	—	30	35	41	44	47	48	49
	45	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	32	35	40	45	49	52	56	58	—	15	16	19	21	23	25	26
			Wide Fog	—	—	—	—	—	—	—	—	—	69	75	85	91	96	98	101
5000-14E	60	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	38	43	51	60	68	76	—	—	69	76	89	96	104	110	115	124
			Wide Fog	—	—	—	—	—	—	—	—	38	41	44	49	55	61	66	71
	75	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	53	58	65	75	84	92	—	—	73	81	94	103	111	118	—	—
			Wide Fog	—	—	—	—	—	—	—	—	39	41	45	52	57	62	—	—
	95	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	63	68	83	95	107	115	—	—	29	30	31	33	37	40	—	—
			Wide Fog	—	—	—	—	—	—	—	—	77	86	101	111	118	126	130	138
	125	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	82	91	110	125	140	153	—	—	40	41	46	55	59	64	67	70
			Wide Fog	—	—	—	—	—	—	—	—	29	30	33	36	40	44	47	51
150	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
		Narrow Fog	97	107	132	150	169	182	—	—	78	86	103	113	121	128	138	146	
		Wide Fog	—	—	—	—	—	—	—	—	44	48	55	62	67	71	77	84	
5000-24E	175	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	111	124	150	175	192	210	—	—	32	34	36	39	44	48	—	—
			Wide Fog	—	—	—	—	—	—	—	—	88	91	101	117	132	148	—	—
	200	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	127	141	173	200	224	245	—	—	49	51	54	61	73	78	—	—
			Wide Fog	—	—	—	—	—	—	—	—	33	34	36	40	44	48	—	—
	250	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	172	192	230	256	290	320	—	—	91	102	118	136	152	164	—	—
			Wide Fog	—	—	—	—	—	—	—	—	53	56	62	70	79	83	—	—
	325	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	220	240	289	325	362	398	—	—	35	40	43	47	51	54	—	—
			Wide Fog	—	—	—	—	—	—	—	—	97	108	126	142	160	173	—	—
350	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
		Narrow Fog	221	247	303	350	391	—	—	57	61	67	75	86	89	—	—		
		Wide Fog	—	—	—	—	—	—	—	—	39	43	47	52	55	59	—	—	

R.A.N.™	Catalog No.	GPM	Stream Setting	Discharge in U.S. GPM							Effective Reach in Feet								
				Nozzle Pressure PSI							Nozzle Pressure PSI								
				40	50	60	70	80	90	100	125	40	50	60	70	80	90	100	125
3896 R.A.N.®	500	SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	358	400	443	477	509	540	570	—	135	149	162	172	181	188	194	—
			Wide Fog	—	—	—	—	—	—	—	—	92	101	109	117	125	133	140	—

X-STREAM®	Catalog No.	Inlet Size	Stream Setting	Discharge in U.S. GPM					Effective Reach in Feet						
				Nozzle Pressure PSI					Nozzle Pressure PSI						
				50	60	65	70	75	80	50	60	65	70	75	80
SM-1000 Series	2.5	SS	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	113	244	350	500	1000	—	108	134	165	198	255	—
			Wide Fog	—	—	—	—	—	—	89	94	98	107	124	—
	3.5	SS	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	130	297	405	530	675	1000	123	142	176	210	221	241
			Wide Fog	—	—	—	—	—	—	88	90	93	100	115	125
SM-1250 Series	2.5	SS	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	315	525	630	925	1250	—	55	66	77	90	97	103
			Wide Fog	—	—	—	—	—	—	139	182	220	257	271	—
	3.5	SS	—	—	—	—	—	—	—	—	—	—	—	—	
			Narrow Fog	385	655	875	1100	1250	—	105	110	116	119	130	—
			Wide Fog	—	—	—	—	—	—	57	62	69	77	92	—

TECHNICAL DATA



NOZZLE FLOW

TECHNICAL DATA

T-7

X-STREAM®	Catalog No.	Stream Setting	Discharge in U.S. GPM											Effective Reach in Feet										
			Nozzle Pressure PSI											Nozzle Pressure PSI										
			50	60	70	75	80	85	90	95	100	105	110	50	60	70	75	80	85	90	95	100	105	110
SM-1500 Series SM-2000 Series		SS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
		Narrow Fog	500	850	1250	1500	2000	—	—	—	—	—	—	—	—	—	240	300	—	—	—	—	—	
		Wide Fog	—	—	—	—	—	—	—	—	—	—	—	—	—	—	90	100	—	—	—	—	—	

SELECT-O-STREAM® MASTER STREAM	Catalog No.	GPM	Stream Setting	Discharge in U.S. GPM											Effective Reach in Feet										
				Nozzle Pressure PSI											Nozzle Pressure PSI										
				40	50	60	70	80	90	100	125	40	50	60	70	80	90	100	125						
CJ Series IMS IMS-N	350		SS	109	125	131	137	142	146	150	155	61	65	69	73	77	82	87	100						
			Narrow Fog	41	45	49	53	56	58	60	65	119	134	142	150	158	165	173	190						
			Wide Fog	68	72	77	82	87	92	97	110	36	40	44	48	52	56	60	70						
	500		SS	148	170	184	198	212	226	238	248	104	115	125	135	144	152	160	180						
			Narrow Fog	80	89	98	107	117	126	135	159	59	66	72	80	88	98	100	118						
			Wide Fog	58	65	71	77	83	89	95	105	159	180	204	225	242	252	263	289						
CJN CJN-BN CJN-RC CJN-B CJN-B-RC IMS	750		SS	159	180	204	225	242	252	263	289	104	115	125	135	144	152	160	180						
			Narrow Fog	80	89	98	107	117	126	135	159	59	66	72	80	88	98	100	118						
			Wide Fog	58	65	71	77	83	89	95	105	148	170	184	198	212	226	238	248						
	1000		SS	148	170	184	198	212	226	238	248	104	115	125	135	144	152	160	180						
			Narrow Fog	80	89	98	107	117	126	135	159	59	66	72	80	88	98	100	118						
			Wide Fog	58	65	71	77	83	89	95	105	107	121	130	137	142	147	150	159						
CSW	300		SS	76	87	97	104	110	115	120	128	49	54	58	62	65	68	71	78						
			Narrow Fog	135	149	162	172	181	188	194	208	92	101	109	117	125	133	140	154						
			Wide Fog	48	52	56	60	63	67	71	81	140	165	180	191	202	213	221	252						
	550		SS	94	104	114	124	133	143	152	172	46	49	52	54	56	58	60	65						
			Narrow Fog	135	149	162	172	181	188	194	208	92	101	109	117	125	133	140	154						
			Wide Fog	48	52	56	60	63	67	71	81	109	125	131	137	142	146	150	155						
CSWL CSW-LB	350		SS	61	65	69	73	77	82	87	100	41	45	49	53	56	58	60	65						
			Narrow Fog	119	134	142	150	158	165	173	190	68	72	77	82	87	92	97	110						
			Wide Fog	36	40	44	48	52	56	60	70	109	125	131	137	142	146	150	155						
	500		SS	119	134	142	150	158	165	173	190	68	72	77	82	87	92	97	110						
			Narrow Fog	41	45	49	53	56	58	60	65	119	134	142	150	158	165	173	190						
			Wide Fog	36	40	44	48	52	56	60	70	104	115	125	135	144	152	160	180						
750		SS	150	178	191	202	211	222	235	264	91	105	117	129	140	150	158	175							
		Narrow Fog	91	105	117	129	140	150	158	175	60	64	71	82	90	101	107	112							
		Wide Fog	60	64	71	82	90	101	107	112	168	192	215	236	251	266	278	291							
	1000		SS	168	192	215	236	251	266	278	291	84	96	108	115	125	136	146	163						
			Narrow Fog	84	96	108	115	125	136	146	163	61	69	77	84	91	102	115	119						
			Wide Fog	61	69	77	84	91	102	115	119	180	200	220	240	260	280	300	—						
1250		SS	180	200	220	240	260	280	300	—	104	120	135	145	155	165	175	—							
		Narrow Fog	104	120	135	145	155	165	175	—	71	84	98	112	123	132	140	—							
		Wide Fog	71	84	98	112	123	132	140	—	226	251	275	295	314	333	350	390							
MYSTERY® MASTER STREAM	J	350	SS	226	251	275	295	314	333	350	390	81	95	105	114	122	129	135	150						
			Narrow Fog	330	366	400	433	463	488	515	574	38	40	42	44	46	48	50	55						
			Wide Fog	396	442	481	515	550	585	615	688	28	30	32	34	36	38	40	45						
		500		SS	316	360	398	426	454	480	502	558	106	118	124	129	133	137	141	150					
				Narrow Fog	422	471	516	557	591	625	656	730	69	75	80	83	86	88	90	95					
				Wide Fog	552	614	671	720	765	811	854	956	50	54	57	61	64	68	71	80					
	1000		SS	448	498	550	590	630	663	696	—	120	134	142	152	160	165	170	—						
			Narrow Fog	585	652	714	764	813	863	910	—	78	92	100	110	120	128	135	—						
			Wide Fog	740	824	900	971	1039	—	—	—	40	45	55	60	65	—	—	—						
	CJK CJK-HP	1250		SS	130	150	172	191	209	230	266	292	63	72	83	92	100	110	128	140					
				Narrow Fog	49	57	65	73	79	87	101	111	140	166	190	212	233	255	276	320					
				Wide Fog	67	80	91	102	112	122	132	150	53	63	72	81	89	97	105	122					
			1500		SS	150	176	200	224	248	272	296	354	72	84	96	107	119	131	142	170				
					Narrow Fog	67	80	91	102	112	122	132	150	57	67	76	85	94	103	112	135				
					Wide Fog	53	63	72	81	89	97	105	122	174	200	224	248	273	298	325	375				
		1750		SS	174	200	224	248	273	298	325	375	84	96	107	119	131	143	156	180					
				Narrow Fog	67	80	91	102	112	122	132	150	66	76	85	94	103	113	124	143					
				Wide Fog	53	63	72	81	89	97	105	122	—	—	—	—	—	—	—	—					

IND & ELE FOG	Catalog No.	Stream Setting	Discharge in U.S. GPM					Effective Reach in Feet						
			Nozzle Pressure PSI					Nozzle Pressure PSI						
			40	50	75	100	150	40	50	75	100	125	150	
L-206-T		SS	36	41	50	56	63	68	60	68	75	85	95	105
		Narrow Fog	38	44	53	60	68	73	35	37	44	49	54	59
		Wide Fog	62	71	86	98	110	119	26	28	34	41	47	53

Catalog No.	GPM	Stream Setting	Discharge in U.S. GPM						
			Nozzle Pressure PSI						
			40	50	75	100	125	150	175
6000-200E	15	SS							
		Narrow Fog	9	11	13	15	17	18	-
		Wide Fog							
	30	SS							
		Narrow Fog	19	21	26	30	34	37	-
		Wide Fog							
	45	SS							
		Narrow Fog	28	32	39	45	50	55	-
		Wide Fog							
	60	SS							
		Narrow Fog	38	42	52	60	67	73	-
		Wide Fog							
95	SS								
	Narrow Fog	60	67	82	92	106	116	-	
	Wide Fog								
125	SS								
	Narrow Fog	79	88	108	125	140	153	-	
	Wide Fog								
150	SS								
	Narrow Fog	95	106	130	150	168	184	-	
	Wide Fog								
200	SS								
	Narrow Fog	126	141	173	200	224	245	-	
	Wide Fog								
6000-700E	250	SS							
		Narrow Fog	158	177	217	250	280	306	-
		Wide Fog							
	350	SS							
		Narrow Fog	221	247	303	350	391	429	-
		Wide Fog							
	500	SS							
		Narrow Fog	316	354	433	500	559		-
		Wide Fog							
	700	SS							
		Narrow Fog	443	495	606	700			-
		Wide Fog							

NOZZLE REACTION FORMULA

STRAIGHT BORE NOZZLES

$NR = 1.5 d^2 NP$
 Where NR = Nozzle Reaction (Pounds)
 d = Nozzle Diameter (Inches)
 NP = Nozzle Pressure (psi)
 1.5 is a constant

COMBINATION FOG NOZZLES

$NR = 0.0505 Q \sqrt{P}$
 Where NR = Nozzle Reaction (Pounds)
 Q = Flow (GPM)
 P = Nozzle Pressure (psi at base of nozzle)
 0.0505 is a constant
 This formula is with nozzle set on straight stream.
 Reaction will decrease as pattern is widened to fog.