

BLITZFIRE FLOW CHART

**Friction loss for 3” hose,
coupled 2½” for various flows and hose lengths.**
(Calculated using NFPA friction loss coefficient of 0.8)

Flow	150 feet	200 feet	250 feet	300 feet	350 feet	400 feet
100 GPM	1 psi	2 psi	2 psi	2 psi	3 psi	3 psi
150 GPM	3 psi	4 psi	5 psi	5 psi	6 psi	7 psi
200 GPM	5 psi	6 psi	8 psi	10 psi	11 psi	13 psi
250 GPM	8 psi	10 psi	13 psi	15 psi	18 psi	20 psi
300 GPM	11 psi	14 psi	18 psi	22 psi	25 psi	29 psi
350 GPM	15 psi	20 psi	25 psi	29 psi	34 psi	39 psi
400 GPM	19 psi	26 psi	32 psi	38 psi	45 psi	51 psi
450 GPM	24 psi	32 psi	41 psi	49 psi	57 psi	65 psi
500 GPM	30 psi	40 psi	50 psi	60 psi	70 psi	80 psi

- (1) Rounded to the nearest psi.
- (2) Friction loss may vary with brand and condition of hose.

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TFT BLITZFIRE w/100 psi Max-Matic nozzle

**Approximate Pump Discharge Pressure (PDP) for 3” hose, coupled 2½” for various
Flows and hose lengths for TFT BLITZFIRE w/100 psi Max-Matic nozzle.**

Flow	150 feet	200 feet	250 feet	300 feet	350 feet	400 feet
150 GPM	100 psi	105 psi	105 psi	105 psi	105 psi	105 psi
200 GPM	110 psi	115 psi	115 psi	115 psi	120 psi	120 psi
250 GPM	115 psi	120 psi	120 psi	125 psi	125 psi	130 psi
300 GPM	120 psi	125 psi	130 psi	130 psi	135 psi	140 psi
350 GPM	125 psi	130 psi	135 psi	140 psi	145 psi	150 psi
400 GPM	130 psi	135 psi	145 psi	150 psi	155 psi	160 psi
450 GPM	135 psi	145 psi	155 psi	160 psi	170 psi	180 psi
500 GPM	155 psi	165 psi	175 psi	185 psi	195 psi	205 psi

- (1) Number indicates PDP in psi (nearest 5 psi).
- (2) Pressures may vary with brand and condition of hose.
- (3) Pressures are approximate and do not reflect losses in pre-connect piping.
- (4) Pressure loss through Blitzfire monitor included.

TFT BLITZFIRE w/ 80 psi Max-Matic nozzle

Approximate Pump Discharge Pressure (PDP) for 3” hose, coupled 2½” for various Flows and hose lengths for TFT BLITZFIRE w/ 80 psi Max-Matic nozzle.

Flow	150 feet	200 feet	250 feet	300 feet	350 feet	400 feet
150 GPM	80 psi	80 psi	80 psi	80 psi	80 psi	80 psi
200 GPM	85 psi	85 psi	90 psi	90 psi	90 psi	90 psi
250 GPM	90 psi	90 psi	95 psi	95 psi	100 psi	100 psi
300 GPM	95 psi	95 psi	100 psi	105 psi	110 psi	110 psi
350 GPM	100 psi	105 psi	110 psi	115 psi	120 psi	125 psi
400 GPM	105 psi	110 psi	115 psi	125 psi	130 psi	135 psi
450 GPM	125 psi	135 psi	140 psi	150 psi	160 psi	165 psi
500 GPM	155 psi	165 psi	175 psi	185 psi	195 psi	205 psi

- (1) Number indicates PDP in psi (nearest 5 psi).
- (2) Pressures may vary with brand and condition of hose.
- (3) Pressures are approximate and do not reflect losses in pre-connect piping.
- (4) Pressure loss through Blitzfire monitor included.

TFT BLITZFIRE w/Max-Force **Dual Pressure** nozzle

Approximate Pump Discharge Pressure (PDP) for 3” hose, coupled 2½” for various Flows and hose lengths for TFT BLITZFIRE w/Max-Force **Dual Pressure** nozzle.

Flow	150 feet		200 feet		250 feet		300 feet		350 feet		400 feet	
150 GPM	100	50	105	50	105	50	105	50	105	50	105	50
200 GPM	110	55	115	55	115	55	115	60	120	60	120	60
250 GPM	115	60	120	65	120	65	125	70	125	70	130	75
300 GPM	120	70	125	70	130	75	130	80	135	85	140	85
350 GPM	125	80	130	85	135	90	140	95	145	100	150	105
400 GPM	130	100	135	105	145	110	150	115	155	125	160	130
450 GPM	135	125	145	135	155	140	160	150	170	160	180	165
500 GPM	155	155	165	165	175	175	185	185	195	195	205	205

Numbers in **BLUE** for nozzle set at Standard 100 psi
 Numbers in **RED** for nozzle set at Low Pressure

- (1) Number indicates PDP in psi (nearest 5 psi).
- (2) Pressures may vary with brand and condition of hose.
- (3) Pressures are approximate and do not reflect losses in pre-connect piping.
- (4) Pressure loss through Blitzfire monitor included.

BLITZFIRE FLOW CHART

Friction Loss for 2 1/2 inch hose (PSI)						
Hose Length in Feet						
Flow (GPM)	150	200	250	300	350	400
100	3	4	5	6	7	8
150	7	9	11	14	16	18
200	12	16	20	24	28	32
250	19	25	32	38	44	51
300	27	36	45	55	64	73
350	37	49	62	74	87	99
400	48	65	81	97	113	129
450	61	82	102	123	143	164
500	76	101	126	152	177	202

(1) Rounded to the nearest psi.
 (2) Friction loss may vary with brand and condition of hose.

Friction Loss for 64mm hose (BAR)						
Hose Length in Meters						
Flow (LPM)	45	60	76	91	107	121
380	0.2	0.3	0.3	0.4	0.5	0.6
570	0.5	0.6	0.8	0.9	1.1	1.3
760	0.8	1.1	1.4	1.7	1.9	2.2
950	1.3	1.7	2.2	2.6	3.0	3.5
1140	1.9	2.5	3.1	3.8	4.4	5.0
1330	2.6	3.4	4.3	5.1	6.0	6.8
1520	3.3	4.5	5.6	6.7	7.8	8.9
1700	4.2	5.6	7.0	8.5	9.9	11.3
1900	5.2	7.0	8.7	10.4	12.2	13.9

(1) Rounded to the nearest bar.
 (2) Friction loss may vary with brand and condition of hose.

TFT Blitzfire w/100 psi Max-Matic nozzle 2 1/2 hose						
Pump Discharge Pressure in PSI						
Hose Length in Feet						
Flow (GPM)	150	200	250	300	350	400
150	105	110	110	115	115	115
200	115	125	125	130	135	140
250	125	135	140	150	150	160
300	135	145	155	165	175	185
350	145	160	170	185	195	210
400	160	175	195	210	225	240
450	170	195	215	235	255	280
500	200	225	250	275	300	325

(1) Rounded to the nearest psi.
 (2) Friction loss may vary with brand and condition of hose.

TFT Blitzfire w/100 psi Max-Matic nozzle 64mm hose						
Pump Discharge Pressure in BAR						
Hose Length in Meters						
Flow (LPM)	45	60	76	91	107	121
570	7.2	7.6	7.6	7.9	7.9	7.9
760	7.9	8.6	8.6	9.0	9.3	9.6
950	8.6	9.3	9.6	10.3	10.3	11.0
1140	9.3	10.0	10.7	11.4	12.1	12.7
1330	10.0	11.0	11.7	12.7	13.4	14.5
1520	11.0	12.1	13.4	14.5	15.5	16.5
1700	11.7	13.4	14.8	16.2	17.6	19.3
1900	13.8	15.5	17.2	18.9	20.7	22.4

(1) Rounded to the nearest bar.
(2) Friction loss may vary with brand and condition of hose.

TFT Blitzfire w/80 psi Max-Matic nozzle 2 1/2 inch hose						
Pump Discharge Pressure in PSI						
Hose Length in Feet						
Flow (GPM)	150	200	250	300	350	400
150	85	85	85	90	90	90
200	90	95	100	105	105	110
250	100	105	115	120	125	130
300	110	115	125	140	150	155
350	120	135	145	160	170	185
400	135	150	165	185	200	215
450	160	185	200	225	245	265
500	200	225	250	275	300	325

(1) Rounded to the nearest psi.
(2) Friction loss may vary with brand and condition of hose.

TFT Blitzfire w/80 psi Max-Matic nozzle 64mm hose						
Pump Discharge Pressure in BAR						
Hose Length in Meters						
Flow (LPM)	45	60	76	91	107	121
570	5.9	5.9	5.9	6.2	6.2	6.2
760	6.2	6.5	6.9	7.2	7.2	7.6
950	6.9	7.2	7.9	8.3	8.6	9.0
1140	7.6	7.9	8.6	9.6	10.3	10.7
1330	8.3	9.3	10.0	11.0	11.7	12.7
1520	9.3	10.3	11.4	12.7	13.8	14.8
1700	11.0	12.7	13.8	15.5	16.9	18.3
1900	13.8	15.5	17.2	18.9	20.7	22.4

(1) Rounded to the nearest bar.
(2) Friction loss may vary with brand and condition of hose.

TFT Blitzfire w/Max-Force Dual Pressure Nozzle 2 1/2 inch hose												
Pump Discharge Pressure in PSI												
Hose Length in Feet												
Flow (GPM)	150		200		250		300		350		400	
150	105	55	110	55	110	55	115	60	115	60	115	60
200	115	60	125	65	125	65	130	75	135	75	140	80
250	125	70	135	80	140	85	150	95	150	95	160	105
300	135	85	145	90	155	100	165	115	175	125	185	130
350	145	100	160	115	170	125	185	140	195	150	210	165
400	160	130	175	145	195	160	210	175	225	195	240	210
450	170	160	195	185	215	200	235	225	255	245	280	265
500	200	200	225	225	250	250	275	275	300	300	325	325

(1) Rounded to the nearest psi.
(2) Friction loss may vary with brand and condition of hose.

Numbers in BLUE for nozzle at Standard 100 PSI setting
Numbers in RED for nozzle at Low Pressure setting

TFT Blitzfire w/Max-Force Dual Pressure Nozzle 64mm hose												
Pump Discharge Pressure in BAR												
Hose Length in Meters												
Flow (LPM)	45		60		76		91		107		121	
150	7.2	3.8	7.6	3.8	7.6	3.8	7.9	4.1	7.9	4.1	7.9	4.1
200	7.9	4.1	8.6	4.5	8.6	4.5	9.0	5.2	9.3	5.2	9.6	5.5
250	8.6	4.8	9.3	5.5	9.6	5.9	10.3	6.5	10.3	6.5	11.0	7.2
300	9.3	5.9	10.0	6.2	10.7	6.9	11.4	7.9	12.1	8.6	12.7	9.0
350	10.0	6.9	11.0	7.9	11.7	8.6	12.7	9.6	13.4	10.3	14.5	11.4
400	11.0	9.0	12.1	10.0	13.4	11.0	14.5	12.1	15.5	13.4	16.5	14.5
450	11.7	11.0	13.4	12.7	14.8	13.8	16.2	15.5	17.6	16.9	19.3	18.3
500	13.8	13.8	15.5	15.5	17.2	17.2	18.9	18.9	20.7	20.7	22.4	22.4

(1) Rounded to the nearest psi.
(2) Friction loss may vary with brand and condition of hose.

Numbers in BLUE for nozzle at Standard 100 BAR setting
Numbers in RED for nozzle at Low Pressure setting