

MID-MATIC Flow & Nozzle Reaction Chart

100 PSI = 100 PSI MID-MATIC 75 PSI = 75 PSI MID-MATIC

FLOW (GPM)
REACTION
(LBS)

PUMP DISCHARGE PRESSURE (PSI)	1 1/2" HOSE						1 3/4" HOSE						2" HOSE					
	150 ft.		200 ft.		250 ft.		150 ft.		200 ft.		250 ft.		150 ft.		200 ft.		250 ft.	
	100 PSI	75 PSI	100 PSI	75 PSI	100 PSI	75 PSI	100 PSI	75 PSI	100 PSI	75 PSI	100 PSI	75 PSI	100 PSI	75 PSI	100 PSI	75 PSI	100 PSI	75 PSI
	Flow (GPM)	Reaction (LBS)	Flow (GPM)	Reaction (LBS)	Flow (GPM)	Reaction (LBS)	Flow (GPM)	Reaction (LBS)	Flow (GPM)	Reaction (LBS)	Flow (GPM)	Reaction (LBS)	Flow (GPM)	Reaction (LBS)	Flow (GPM)	Reaction (LBS)	Flow (GPM)	Reaction (LBS)
50	21 8	49 16	21 7	48 15	21 7	46 14	21 8	51 17	21 8	50 16	21 7	49 16	22 8	52 18	22 8	52 18	22 8	51 17
75	31 13	61 24	29 12	59 23	28 12	57 21	23 14	65 27	32 14	62 25	31 13	60 24	36 15	69 29	35 15	68 28	34 15	66 27
100	65 30	86 37	59 27	77 33	55 25	71 30	72 34	102 45	67 32	91 40	63 29	84 36	84 41	137 61	79 38	120 53	75 36	108 48
125	93 45	115 51	84 40	101 44	77 37	92 40	108 54	142 63	97 48	124 55	91 44	111 49	135 69	216 91	122 62	175 77	113 57	155 69
150	117 59	141 63	105 52	123 55	96 47	110 49	141 72	178 79	125 63	153 68	114 57	137 61	196 101	---	168 87	221 95	151 78	195 85
175	140 72	165 73	124 63	142 63	112 57	128 57	174 90	214 90	151 78	179 79	136 70	159 70	---	---	212 109	---	187 97	224 98
200	162 84	187 81	141 73	160 71	128 65	143 64	204 105	---	175 91	204 87	157 81	179 79	---	---	---	---	222 113	---
225	183 94	208 88	158 82	176 78	142 73	157 70	---	---	198 102	222 95	176 91	198 86	---	---	---	---	---	---
250	202 104	221 96	174 90	198 79	155 80	179 69	---	---	218 112	---	194 100	215 91	---	---	---	---	---	---

(1) Number on top in each box indicates flow (GPM), and number on bottom indicates nozzle reaction (LBS).
 (2) Flows may vary with brand or condition of hose. (3) Flows are approximate and do not reflect losses in preconnect piping.

MID-MATIC Flow & Nozzle Reaction Chart

7 BAR = 7 BAR MID-MATIC 5 BAR = 5 BAR MID-MATIC

FLOW (LPM)
REACTION
(KG)

PUMP DISCHARGE PRESSURE (BAR)	38mm HOSE						45mm HOSE						50mm HOSE					
	45M		60M		75M		45M		60M		75M		45M		60M		75M	
	7 BAR	5 BAR	7 BAR	5 BAR	7 BAR	5 BAR	7 BAR	5 BAR	7 BAR	5 BAR	7 BAR	5 BAR	7 BAR	5 BAR	7 BAR	5 BAR	7 BAR	5 BAR
	Flow (LPM)	Reaction (KG)	Flow (LPM)	Reaction (KG)	Flow (LPM)	Reaction (KG)	Flow (LPM)	Reaction (KG)	Flow (LPM)	Reaction (KG)	Flow (LPM)	Reaction (KG)	Flow (LPM)	Reaction (KG)	Flow (LPM)	Reaction (KG)	Flow (LPM)	Reaction (KG)
3.5	80 4	210 8	80 3	190 7	80 3	175 6	80 4	245 10	80 4	225 9	80 3	205 8	85 4	310 12	85 4	285 11	85 4	255 10
5.2	115 6	350 14	110 5	315 12	105 5	285 11	85 6	420 17	120 6	380 15	115 6	345 14	135 7	535 23	130 7	485 20	130 7	450 19
7	245 14	460 19	225 12	405 16	210 11	365 15	275 15	540 24	255 15	490 20	240 13	445 18	320 19	695 33	300 17	630 29	285 16	580 25
8.6	350 20	540 24	320 18	475 20	290 17	430 18	410 25	650 30	365 22	575 25	345 20	520 23	510 31	805 41	460 28	750 36	430 26	690 32
10	445 27	615 28	395 24	540 24	365 21	490 21	535 33	740 35	475 29	660 30	430 26	600 26	740 46	---	635 40	---	570 35	775 38
12	530 33	680 31	470 29	600 27	425 26	540 24	660 41	805 41	570 35	725 35	515 32	660 30	---	---	800 50	---	710 44	845 45
14	615 38	740 35	535 33	655 30	485 30	590 26	770 48	---	660 41	785 39	595 37	715 34	---	---	---	---	840 51	---
15.5	695 43	790 40	600 37	705 33	535 33	635 29	---	---	750 46	835 44	665 41	770 38	---	---	---	---	---	---
17	765 47	835 44	660 41	750 36	585 36	680 31	---	---	825 51	---	735 45	815 41	---	---	---	---	---	---

(1) Number on top in each box indicates flow (LPM), and number on bottom indicates nozzle reaction (KG).
 (2) Flows may vary with brand or condition of hose. (3) Flows are approximate and do not reflect losses in preconnect piping.