## FOR 1 3/4" HOSE WITH TASK FORCE TIP NOZZLE

### LENGTH OF HOSE

| | 100' | 150' | 200' | 250' | 300' | 350' | 400' |
|---|---|---|---|---|---|---|---|
| 50 GPM | 103 | 104 | 106 | 107 | 109 | 110 | 112 |
| 60 " | 104 | 106 | 108 | 110 | 112 | 114 | 116 |
| 75 " | 107 | 110 | 114 | 118 | 121 | 125 | 128 |
| 90 " | 110 | 115 | 120 | 125 | 130 | 135 | 140 |
| 100 " | 112 | 118 | 124 | 130 | 136 | 142 | 148 |
| 110 " | 114 | 121 | 128 | 134 | 142 | 149 | 156 |
| 125 " | 118 | 127 | 136 | 145 | 154 | 163 | 172 |
| 150 " | 126 | 139 | 152 | 165 | 178 | 191 | 204 |
| 175 " | 134 | 151 | 168 | 185 | 202 | 219 | 236 |
| 200 " | 145 | 167 | 190 | 212 | 235 | 257 | 280 |
| 225 " | 155 | 182 | 210 | 237 | 265 | 292 | 319 |
| 250 " | 170 | 205 | 240 | 275 | 320 | | |
| 275 " | 180 | 220 | 260 | 300 | | | |
| 300 " | 195 | 242 | 290 | 337 | | | |
| 325 " | 212 | 268 | 324 | | | | |

## STRAIGHT TIP (SMOOTH) - MASTER STREAM
## 80psi NOZZLE PRESSURE
## TWO (2) - 3" LINES

| TIP | GPM | 50' | 100' | 150' | 200' | 250' | 300' |
|---|---|---|---|---|---|---|---|
| 1" | 266 | 81 | 82 | 83 | 84 | 85 | 86 |
| 1 1/8" | 336 | 82 | 83 | 85 | 87 | 88 | 89 |
| 1 1/4" | 415 | 82 | 84 | 86 | 88 | 90 | 92 |
| 1 3/8" | 500 | 83 | 86 | 89 | 92 | 95 | 98 |
| 1 1/2" | 598 | 84 | 88 | 92 | 96 | 100 | 104 |
| 1 5/8" | 702 | 85 | 91 | 96 | 102 | 107 | 113 |
| 1 3/4" | 814 | 87 | 95 | 102 | 110 | 117 | 125 |
| 1 7/8" | 934 | 89 | 99 | 108 | 118 | 127 | 137 |
| 2' | 1063 | 91 | 103 | 114 | 126 | 137 | 149 |
| 2 1/4" | 1345 | 98 | 116 | 134 | 152 | 170 | 188 |
| 2 1/2" | 1660 | 106 | 133 | 159 | 186 | 212 | 239 |

**GPM FLOW BY NOZZLE:**

| | |
|---|---|
| Booster Nozzle | 30 GPM |
| 1 1/2" Standard | 95 GPM |
| 1 3/4" Task Force Tip | 150 GPM |
| 2 1/2" Combination Nozzle | 250 GPM |

**ALL FOG NOZZLES SHALL HAVE 100 PSI NOZZLE PRESSURE**

**ALL STRAIGHT TIP HANDLINES HAVE 50 PSI NOZZLE PRESS.**

**STRAIGHT TIP MASTER STREAMS HAVE 80 PSI NOZ. PRESS.**

**BOOSTER LINE PUMP PRESSURE IS 100 PSI**

**MONITOR SET FRICTION LOSS IS 15 PSI**

**FOAM - EDUCTORS TO HAVE 200 PSI AT INLET**

**2 1/2" CELLAR NOZZLE IS 400 GPM, 100 PSI NOZZLE PRESSURE**

**PUMPING TO SPRINKLER CONNECTION 150 PSI**

**PUMPING TO 8057 REAR - 150 PSI**

**PUMPING TO 8034 AND 8051 REAR - 170 PSI**

## FOR 1 1/2" HOSE WITH COMBINATION NOZZLE

### LENGTH OF HOSE

| G.P.M. | 100' | 150" | 200" | 250" | 300" | 350" | 400" |
|---|---|---|---|---|---|---|---|
| 30 | 104 | 106 | 108 | 110 | 112 | 114 | 116 |
| 60 | 113 | 119 | 126 | 132 | 139 | 145 | 152 |
| 95 | 128 | 142 | 156 | 170 | 184 | 198 | 212 |
| 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 |

## FOR 2 1/2" HOSE WITH COMBINATION NOZZLE
## 100 PSI NOZZLE PRESSURE

### LENGTH OF HOSE

| G.P.M. | 100' | 150' | 200' | 250' | 300' | 350' | 400' |
|---|---|---|---|---|---|---|---|
| 125 | 104 | 106 | 108 | 110 | 112 | 114 | 116 |
| 175 | 107 | 111 | 114 | 118 | 121 | 125 | 128 |
| 250 | 115 | 123 | 130 | 138 | 145 | 153 | 160 |
| 300 | 121 | 132 | 142 | 153 | 163 | 174 | 184 |

### FRICTION LOSS CHART

| G.P.M. | 1 1/2" | 1 3/4" | 2 1/2" | 3" | 5" |
|---|---|---|---|---|---|
| 60 | 13 | 4 | | | |
| 75 | 20 | 7 | | | |
| 90 | 28 | 10 | | | |
| 95 | 30 | 11 | | | |
| 100 | 33 | 12 | 3 | 1 | |
| 110 | 40 | 14 | 3 | 1 | |
| 125 | 50 | 18 | 4 | 2 | |
| 150 | | 26 | 6 | 2 | |
| 175 | | 34 | 7 | 3 | |
| 200 | | 45 | 10 | 4 | 1 |
| 225 | | 55 | 13 | 5 | 1 |
| 250 | | 70 | 15 | 6 | 1 |
| 275 | | 80 | 17 | 7 | 2 |
| 300 | | 95 | 21 | 8 | 2 |
| 325 | | 112 | 25 | 10 | 2 |
| 350 | | | 29 | 11 | 3 |
| 400 | | | 36 | 14 | 3 |
| 450 | | | 45 | 18 | 4 |
| 500 | | | 55 | 21 | 5 |
| 550 | | | | 25 | 6 |
| 600 | | | | 30 | 7 |
| 650 | | | | 35 | 9 |
| 700 | | | | 40 | 10 |
| 750 | | | | 45 | 11 |
| 800 | | | | 51 | 12 |
| 850 | | | | 57 | 14 |
| 900 | | | | 63 | 16 |
| 950 | | | | 70 | 18 |
| 1000 | | | | 77 | 19 |
| 1050 | | | | 84 | 21 |
| 1100 | | | | 92 | 23 |
| 1200 | | | | | 29 |
| 1300 | | | | | 31 |
| 1400 | | | | | 35 |
| 1500 | | | | | 42 |
| 2000 | | | | | 68 |