



# BLIZZARD WIZARD®



## FOAM MAKING PRODUCTS

- Proven, cost effective Class A foam making systems for urban and wildland firefighting operations.
- Superior range Class A foam nozzles of 11, 23, 34, 50 and 60 US gpm / 41, 86, 128, 188, 226 LPM.
- Variable round-the-pump foam proportioned for flows of 150 gpm / 564 LPM or less.
- Fixed flow inline inductor with companion air aspirating nozzle.
- The Blizzard Wizard® line of products will convert any 1 1/2"/38mm hose into an "initial attack line" capable of throwing 600 gpm / 2256 LPM of foam up to 75'/23M.

### Legend

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**BLIZZARD WIZARD® FOAM MAKING PRODUCTS**



Nozzle	Flow Capacity	Quantity of foam	Reach @ 100 psi / 6.9 Bar
A	Suitable for hand pump	20-40 gpm / 76-152 lpm	
B	11 gpm / 42 lpm	110 gpm / 416 lpm	45 feet / 14 Meters
C	23 gpm / 87 lpm	230 gpm / 869 lpm	50 feet / 15 Meters
D	34 gpm / 129 lpm	340 gpm / 1285 lpm	70 feet / 21 Meters
E	50 gpm / 189 lpm	500 gpm / 1890 lpm	75 feet / 23 Meters
F	60 gpm / 227 lpm	600 gpm / 2268 lpm	75 feet / 23 Meters

	Part#	Description
A	73BW-1000	Foam Nozzle: Mini-Mousse 3/4"/19mm (for Back Pack Fire Ext.)
A	73BW-1000-DBS	Foam Nozzle: Mini-Mousse 1/4"/6mm (for DB Smith Pumps)
A	73BW-1000-GHT	Foam Nozzle: Mini-Mousse 3/4"/19mm (Garden Hose Thread)
B	73BW-1002	LF-8 Foam nozzle c/w 3/4"/19mm GHT
C	73BW-1003	MF-16 Foam nozzle c/w 1 1/2"/38mm NPSH
C	73BW-1003-NH	MF-16 Foam nozzle c/w 1 1/2"/38mm NH (NST)
C	73BW-1003-QC	MF-16 Foam nozzle c/w 1 1/2"/38mm QC
D	73BW-1004	HF-32 Foam nozzle c/w 1 1/2"/38mm NPSH
D	73BW-1004-NH	HF-32 Foam nozzle c/w 1 1/2"/38mm NH (NST)
E	73BW-1005	SF-50 Foam nozzle c/w 1 1/2"/38mm NPSH
E	73BW-1005-NH	SF-50 Foam nozzle c/w 1 1/2"/38mm NH (NST)
F	73BW-1006	SF-60 Foam nozzle c/w 1 1/2"/38mm NPSH
F	73BW-1007	SF-60 Foam nozzle c/w 1 1/2"/38mm NH (NST)
I	73BW-1009	Suction Tee adapter, 1 1/2"/38mm NPSH (for use with model BB mixer)
I	73BW-1010	Suction Tee adapter, 2"/51mm NPSH (for use with model BB mixer)
No photo	73BW-1010-G	Suction Tee adapter, 2"/51mm NPSH less GHT fitting (for use with model BB mixer)
H	73BW-1011	Dischg T adpt, 1 1/2"/38mm GHT for BB mixer (with samp. nozz.)
K	73BW-1011-H	Dischg T adpt, 1 1/2"/38mm GHT for BB mixer (no samp. nozz.)
H	73BW-1012	Dischg T adpt., 1 1/2"/38mm NPSH for BB mixer (with samp. nozz.)
J	73BW-1012-B	Dischg T adpt., 1 1/2"/38mm NPSH for BB mixer (male GHT only)
K	73BW-1012-H	Dischg T adpt., 1 1/2"/38mm NPSH for BB mixer c/w cap & chain (no samp. nozz.)
J	73BW-1013-B	Dischg T adpt., 1 1/2"/38mm female NPSH x 1 1/2"/38mm male NH for BB mixer (male GHT only)
L	73BW-1015	BB Foam Mixer Var. Round-the-Pump Proportioner
No photo	73BW-1017	Loss of pump prime preventor - Valve only
No photo	73BW-1018F	Loss of pump prime preventor - Cap only - FIRETOL
No photo	73BW-1018S	Loss of pump prime preventor - Cap only - SILV-EX
No photo	73BW-1022	Thread Adpter for booster nozzle 1 1/2"/38mm NH male 1"/25mm NH female
G	73BW-1030	Inline foam eductor (NPSH - for use with 73BW-1006)
G	73BW-1031	Inline foam eductor (GHT - for use with 73BW-1007)
No photo	6406TM12GFHEX	3/8"/10mm Brass adapter NPT male x 3/4"/19mm GHT female Hex





### Calculating Pick-Up Settings for the Model BB Mixer

Nozzle Model Number	Nozzle Capacity (gpm US)	Nozzle Capacity (l/min)
LF-8	11	43
MF-16	23	87
HF-32	34	129
SF-50	50	189
SF-60	60	225

**Table 1 - Nozzle Flow Rates  
 @ 100 psi (690 KPa)**

Concentration (% by Vol)	Flow Factor	
	US	Metric
0.2	0.256	2
0.3	0.384	3
0.5	0.64	5
1.0	1.28	10
3.0	3.84	30

**Table 2 - Flow Factors**

Pick-Up Setting	Pick-Up Rate	
	Ozs/min	ml/min
A	1.3	39
B	8.4	248
C	23.5	695
D	44.7	1322
E	61	1804
Full Scale	72.1	2132

**Table 3 - Pick-Up Rates**

**To determine the setting required:**

Calculate **Total Water Flow** through pump (Sum of Capacities of all Nozzles connected from **Table 1**).

Multiply **Total Water Flow** by the appropriate Concentrate **Flow Factor** from **Table 2** to calculate required **Concentrate Flow**.

Select appropriate setting for **Model BB Control Knob** from **Table 3**.

**Example:**

2 x **MF-16** Nozzles @ 23 gpm US.

**Total Water Flow** = 2 x 23 gpm = 46 gpm

**Assume:** Required **Concentration** is 0.5%

**Flow Factor** is 0.64 (**Table 2**), and,

**Concentrate Flow** = 46 gpm x 0.64  
 = 29.44 oz/min.

Set **Model BB Control Knob** between **C and D**.