



PB-1004 SmartFOAM

Determining which system will meet your needs

To determine which SmartFOAM system will best meet your apparatus needs, you must first determine the maximum solution flow you will use while flowing foam. Do this by multiplying the number of foam capable discharges you plan to simultaneously use by the typical water flow of each. Next, determine the maximum foam injection rate you plan to use with the system. Then choose the correct system table: "Table 1: Class A foam only" or "Table 2: Class A and/or B foam".

For example, if you plan to use three (3) foam discharges and each will run at 125 GPM then the total solution flow (water and foam) will be **375 GPM**. If you will be using **Class A foam only** and at a maximum rate of **0.6%** then the minimum sized SmartFOAM system you should choose is a **3.3** (from Table 1: Class A foam only).

Keep in mind that these tables are used to determine the **MINIMUM** sized system. If the chart shows that a 3.3 system is the minimum sized system there is no issue in choosing one of the next sizes up (5.0, 6.5, or Dual 6.5).

The maximum injection pressure value indicates the maximum pressure that the system can operate against. Please keep this in mind when choosing the system.

Model (12 or 24 volt)	Max Foam Flow Rate (GPM)	Max Injection Pressure (PSI)	Max Water Flow - GPM					
			CLASS A FOAM INJECTION RATE				CLASS B FOAM INJECTION RATE	
			0.1%	0.3%	0.5%	1%	3%	6%
1.7	1.7	400	1700	566	340	170	CLASS A ONLY	
2.1	2.1	250	2100	700	420	210		
3.3	3.3	400	3300	1100	660	330	110	55
5.0	5.0	250	5000	1666	1000	500	166	83
6.5	6.5	200	6500	2166	1300	650	216	108
Dual 6.5	13.0	200	13000	4333	2600	1300	433	216

Ex. This chart shows the maximum number of handlines for the corresponding flow at 0.3% foam injection. The table on the right shows the recommended piping sizes for pump manifold.

Number of Handlines at 0.3%	Handline Flow – GPM			
	100	150	250	350
1.7 AHP	5	3	2	1
2.1 A	7	4	2	2
3.3	11	7	4	3
5	16	11	6	4
6.5	21	14	8	6
Dual 6.5	43	28	17	12

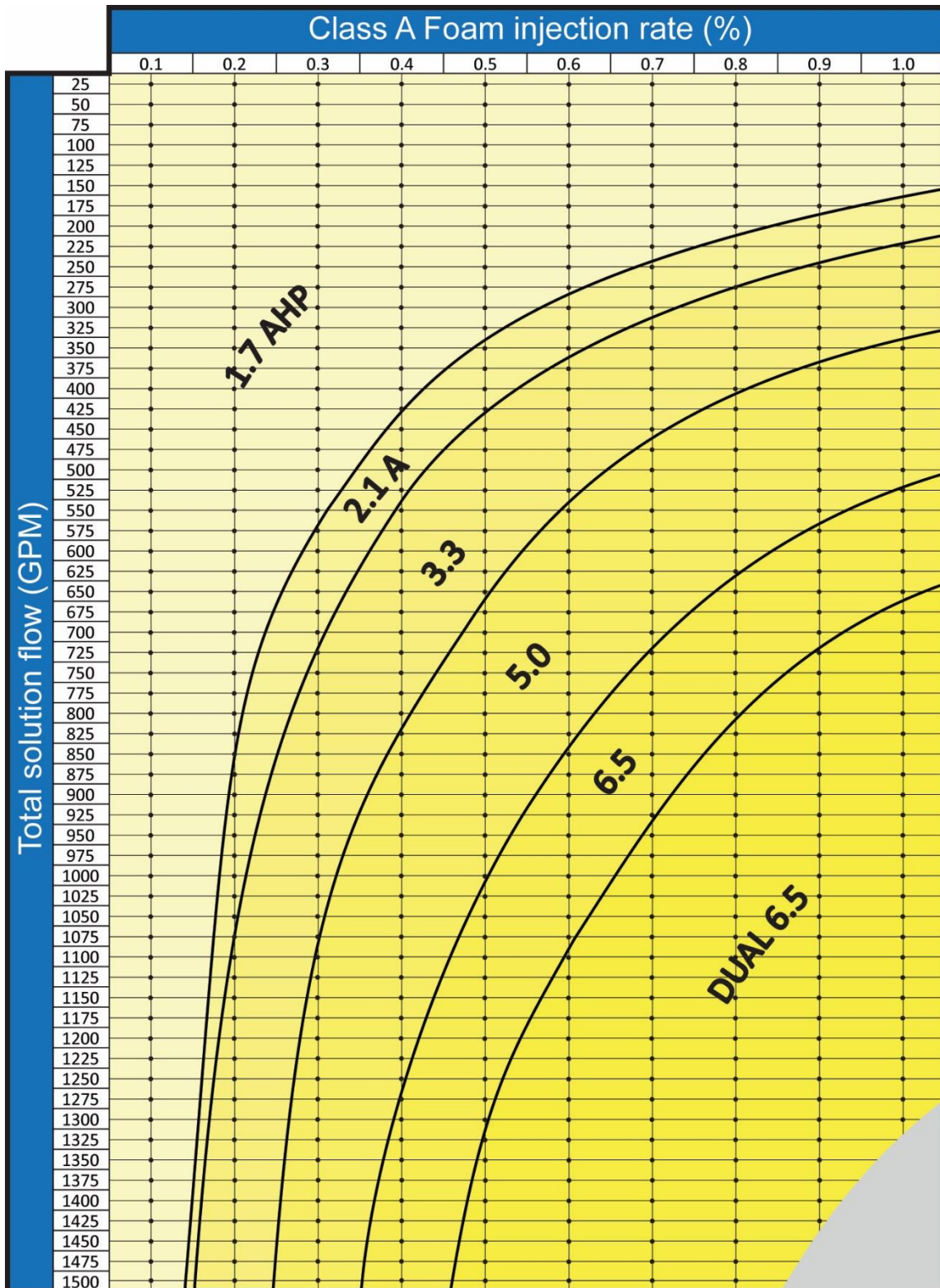
Flowmeter Piping Size (in.)	Minimum Flow of Piping - GPM	Maximum Flow of Piping -GPM
1-1/2	10	350
2	20	550
2-1/2	30	800
3	50	1250
4	75	1800



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Table 1: Class A foam only





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Table 2: Class A and/or B foam

