

TECHNICAL DATA



EDUCTOR/NOZZLE FLOW

This chart is designed to help you better understand the performance of portable foam eductors at various operating pressures. It will also assist you in selecting a nozzle that will be compatible with your new eductor.

As you can see, all of these eductors achieve their rated flow with an inlet pressure of 200 psi. At lower pressures the water flow is less, but the flow of foam concentrate will remain the same. Consequently, the foam solution will be a richer mixture than the metering valve indicates.

You will also note that at lower pressures (flows) the effective reach of the nozzles decreases. Take this into consideration when making your initial attack.

Eductor Model	Recommended Nozzles For Use With Eductor	Hose Size	Inlet Pressure	Flow Rate [^]		Maximum Hose Lay*	Nozzle Pressure	Effective Reach**	
				GPM	L/Min.				
241-30	SFS-O or SFS-OG (Set @ 30), 4000-02 (30) PSFS-HP, PSFS-HPG & TPSFS-HP (Set @ 30)	1.0"	200 PSI	30	114	100'	100 PSI	74'	
			150 PSI	26	98	100'	75 PSI	63'	
			100 PSI	21	79	100'	49 PSI	57'	
	SM-3F, SM-3FG	1.0"	200 PSI	30	114	100'	95PSI	65'	
			—	—	—	—	—	—	
241-60 or 240-60	SFL-O or SFL-OG (Set @ 60), 4000-10 (60), 4000-13 (60)	1.5"	200 PSI	60	227	300'	100 PSI	87'	
			150 PSI	52	197	300'	75 PSI	77'	
			100 PSI	42	159	300'	49 PSI	65'	
	SM-10F, SM-10FG, SM-10FB	1.5"	200 PSI	60	227	300'	92 PSI	82'	
			—	—	—	—	—	—	
242-95 or 241-95 or 240-95	SFL-O or SFL-OG (Set @ 95), SFL-B or SFL-BG (Set @ 95), SFL-N (95), SFL-GN (95), SFM-HP or SFM-HPG (Set @ 95) SFM-LP or SFM-LPG (Set @ 95) 4000-10 (95), 4000-13 (95)	1.5"	200 PSI	95	360	150'	100 PSI	99'	
			150 PSI	82	310	150'	75 PSI	92'	
			100 PSI	67	254	150'	50 PSI	77'	
		1.75"	200 PSI	95	360	250'	100 PSI	99'	
			150 PSI	82	310	250'	75 PSI	92'	
			100 PSI	67	254	250'	50 PSI	77'	
	SM-10F, SM-10FG, SM-10FB	1.5"	200 PSI	95	360	150'	99 PSI	86'	
			—	—	—	—	—	—	
	SM-20F, SM-20FG^^	1.5"	200 PSI	95	360	200'	81 PSI	97'	
			—	—	—	—	—	—	
			—	—	—	—	—	—	
		1.75"	200 PSI	95	360	400'	81 PSI	97'	
			—	—	—	—	—	—	
—			—	—	—	—	—		
241-125 or 240-125	SFL-O or SFL-OG (Set @ 125), SFL-B or SFL-BG (Set @ 125), SFL-N (125), SFL-GN (125), SFM-HP or SFM-HPG (Set @ 125) SFM-LP or SFM-LPG (Set @ 125) 4000-10 (125), 4000-13 (125)	1.75"	200 PSI	125	473	150'	100 PSI	101'	
			150 PSI	108	409	150'	75 PSI	92'	
			100 PSI	88	333	150'	50 PSI	76'	
		2.0"	200 PSI	125	473	300'	100 PSI	101'	
			150 PSI	108	409	300'	75 PSI	92'	
			100 PSI	88	333	300'	50 PSI	76'	
	SM-20F, SM-20FG^^	1.75"	200 PSI	125	473	200'	87 PSI	96'	
			—	—	—	—	—	—	
		2.0"	200 PSI	125	473	400'	87 PSI	96'	
			—	—	—	—	—	—	
241-150	4000-14 } (150@75) 4000-16 } 4000-17 }	1.75"	200 PSI	150	568	150'	75 PSI	110'	
			150 PSI	130	492	150'	56 PSI	92'	
			100 PSI	106	401	150'	37 PSI	76'	
		SFM-LP or SFM-LPG (Set @ 150)	2.0"	200 PSI	150	568	300'	75 PSI	110'
				150 PSI	130	492	300'	56 PSI	92'
				100 PSI	106	401	300'	37 PSI	76'
	SM-20-FLP SM-20-FGLP^^	1.75"	200 PSI	150	568	150'	75 PSI	110'	
			—	—	—	—	—	—	
		2.0"	200 PSI	150	568	300'	75 PSI	110'	
			—	—	—	—	—	—	
241-250	Any SF Series (Set @ 250) or any 4000-20 Series (250)	2.5"	200 PSI	250	946	200'	100 PSI	120'	
			150 PSI	217	821	200'	75 PSI	105'	
			100 PSI	177	670	150'	50 PSI	83'	
	Any SM-30 Series	2.5"	200 PSI	250	946	200'	91 PSI	124'	
			—	—	—	—	—	—	

* Maximum hose lay from eductor discharge to nozzle. We recommend that you test your hose to see if this is applicable.

** These figures are with foam solution flowing (rather than plain water) and the nozzle set on straight stream.

[^] Total flow when picking-up 6% foam concentrate through metering valve.

^{^^} SM-30F and SM-30FG can also be utilized with these eductors. Flow and reach data will differ.