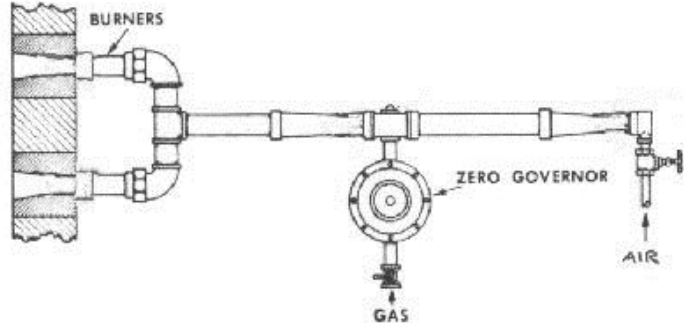




FR Burner Nozzles

CAST IRON BURNER TIPS FR BURNER NOZZLES



FR Tips fitted to furnace using AP premix system

PART NUMBER	SIZE (BSPF)	TOTAL PORT AREA (mm ²)	DIMENSIONS (mm)			WEIGHT KG	APPROX FLAME LENGTH (mm)
			Length	Diameter	Port diameter		
FR15	15mm	76	33	27	7.9	.074	150
FR20	20mm	124	41	34	11.1	.135	220
FR25	25mm	166	44	49	13.1	.340	300
FR32	32mm	366	50	60	20.5	.580	380
FR40	40mm	555	56	67	25.5	.755	450
FR50	50mm	1066	61	82	35.9	1.125	550
FR65	65mm	1403	70	96	41.3	1.840	620
FR80	80mm	1817	80	113	47.1	2.965	800
FR100	100mm	3692	98	150	67.3	6.000	1000

The FR burner tips are premix tips specifically designed to operate on high mixture pressures and would be specified if high gas pressures or air/gas systems are used. They are manufactured from cast iron with the exception of the 15mm and the 20mm tips that are made from steel.

The FR tips have excellent flame retention due to the retention port placement and main port design. They would be matched with the corresponding LPI inspirator or the appropriate SPI inspirator for higher pressure gasses only or with the AP mixing sets for forced air systems. Several tips can be used with a single inspirator or mixer providing basic manifold sizing principles are followed. Careful attention should be given to the venturi throat/burner port area ratio if using an inspirator or the sizing if using aspirators for correct burner operation. Please contact ACS for more information. These burners are open type tips and require secondary air for complete combustion.

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PART NUMBER	CAPACITY AT VARIOUS MIXTURE PRESSURES (kPa/inches WC)					
	.25/1	.75/3	1.5/6	2.25/9	3/12	4.5/18
FR15	10	20	35	50	60	75
FR20	25	45	60	75	85	110
FR25	40	70	100	125	140	175
FR32	90	155	220	270	310	380
FR40	140	240	350	430	485	600
FR50	250	420	600	740	860	1050
FR65	340	575	820	1010	1140	1400
FR80	440	740	1000	1250	1400	1800
FR100	720	1200	1800	2200	2650	3200

All capacities are given in MJ/HOUR. A typical premix burner operating on an air/gas mixing set would develop approx. .75-1 kPa of mixture pressure.

