



1 1/2M656  
CAST



# M series

## FULL CONE Spray Nozzles

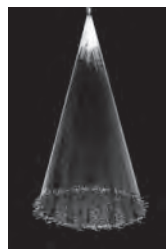
### DESIGN FEATURES

- Ultimate clog-resistant design with largest free passage available in a full cone nozzle
- Two unique S-shaped internal vanes allow free passage of particles

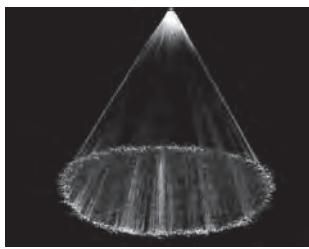
### SPRAY CHARACTERISTICS

- High reliability spray performance under the most difficult conditions
- Spray pattern:** Full Cone

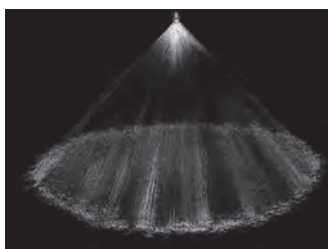
### BAR STOCK



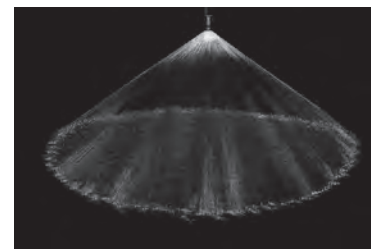
Full Cone 30°



Full Cone 60°



Full Cone 90°



Full Cone 120°

### M Flow Rates and Dimensions

Full Cone, 30° 60 90 and 120° Spray Angles, 3/8" to 4" Pipe Sizes, BSP or NPT

Maleor Female Pipe Size	Nozzle Number	K Factor	LITERS PER MINUTE@ BAR								Approx. Free Passage Dia (mm)	Approx. Dimensions (mm)					Wt.* (kg) Metd	
			0.2 bar	0.3 bar	0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar		Overall Length						
												30 A	60 A	90 A	120 A	C		
3/8	M 125	5.59	2.75	3.29	4.12	4.77	5.59	7.58	9.06	11.3	3.18	76.2	38.1	38.1	38.1	22.2		0.09
	M 156	8.87	4.37	5.22	6.54	7.58	8.87	12.0	14.4	18.0	3.97							0.09
	M 187	12.8	6.31	7.54	9.45	11.0	12.8	17.4	20.8	26.0	4.76							0.07
1/2	M 187	12.8	6.31	7.54	9.45	11.0	12.8	17.4	20.8	26.0	4.76	102	47.6	47.6	47.6	25.4		0.13
	M 218	20.4	10.0	12.0	15.0	17.4	20.4	27.6	33.0	41.4	5.56							0.11
	M 250	23.0	11.3	13.5	17.0	19.7	23.0	31.2	37.3	46.7	6.35							0.11
3/4	M 281	28.3	13.9	16.6	20.8	24.2	28.3	38.3	45.8	57.4	7.14	102	63.5	60.3	63.5	31.8		0.23
	M 312	34.2	16.8	20.1	25.2	29.2	34.2	46.4	55.4	69.4	7.94							0.23
	M 343	41.7	20.6	24.6	30.8	35.7	41.7	56.6	67.7	84.7	8.73							0.20
	M 375	49.3	24.3	29.0	36.3	42.1	49.3	66.9	79.9	100	9.53							0.20
1	M 375	49.3	24.3	29.0	36.3	42.1	49.3	66.9	79.9	100	9.53	111	74.6	74.6	74.6	38.1		0.35
	M 406	59.1	29.1	34.8	43.6	50.5	59.1	80.2	95.9	120	10.3							0.33
	M 437	69.0	34.0	40.6	50.9	59.0	69.0	93.6	112	140	11.1							0.33
1 1/4	M 437	69.0	34.0	40.6	50.9	59.0	69.0	93.6	112	140	11.1	137	85.9	85.9	85.9	50.8		0.61
	M 500	88.7	43.7	52.2	65.4	75.8	88.7	120	144	180	12.7							0.61
	M 531	98.6	48.5	58.0	72.7	84.2	98.6	134	160	200	13.5							0.61
	M 562	108	53.4	63.8	79.9	92.7	108	147	176	220	14.3							0.61
1 1/2	M 562	108	53.4	63.8	79.9	92.7	108	147	176	220	14.3	173	111	111	111	57.2		0.91
	M 593	123	60.7	72.5	90.8	105	123	167	200	250	15.1							0.91
	M 625	131	64.7	77.4	96.9	112	131	178	213	267	15.9							0.91
	M 656	159	78.5	93.8	117	136	159	216	258	324	16.7							0.91
	M 687	168	82.5	98.7	124	143	168	227	272	340	17.5							0.91

Standard Materials: Brass, 316 Stainless Steel, PVC, Polypropylene, and PTFE.

Dimension changes depending on Cast or Bar Stock

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## FULL CONE Spray Nozzles



### DESIGN FEATURES

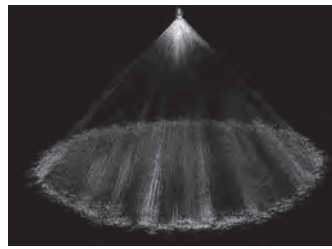
- Ultimate clog-resistant design with largest free passage available in a full cone nozzle
- Two unique Z-shaped internal vanes allow free passage of particles

### SPRAY CHARACTERISTICS

- High reliability spray performance under the most difficult conditions

**Spray pattern:** Full Cone

Connections in NPT or BSP



Full Cone 90°

Dimension changes depending on Cast or Bar Stock

### M Flow rate and Specifications

Full cone 30°, 60°, 90° and 120°. Connection 3/8" to 4" NPT or BSP

Male or Female Pipe Size	Nozzle Number	K Factor	LITERS PER MINUTE @ B AR								Approx Free Passage Dia (mm)	Approx. Dimensions (mm) Overall Length					Wt.* (kg) Metá
			0.2 bar	0.3 bar	0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar		30 A	60 A	90 A	120 A	C <sup>1</sup>	
2	M 750	204	100	120	150	174	204	276	330	414	19.1	210	178	146	159	66.8	1.59
	M 812	223	110	132	165	191	223	303	362	454	20.6	210	183	146	159	66.8	1.59
	M 875	276	136	162	203	236	276	374	448	560	22.2	210	183	146	159	66.8	1.59
	M 937	309	152	182	228	264	309	419	501	627	23.8	229	194	152	165	82.6	1.70
	M 1000	361	178	213	266	309	361	490	586	734	25.4	262	194	152	168	82.6	1.70
	M 1125	444	218	261	327	379	444	602	719	901	28.6	262	194	152	171	82.6	1.70
2 1/2	M 1125	444	218	261	327	379	444	602	719	901	28.6	267	213	165	178	82.6	2.04
	M 1250	532	262	313	392	455	532	722	863	1080	31.8	305	244	165	181	82.6	2.04
	M 1375	637	314	375	470	545	637	865	1030	1290	34.9	305	244	213	229	102	2.84
	M 1500	782	385	460	576	668	782	1060	1270	1590	38.1	330	267	213	229	102	2.84
3	M 1500	782	385	460	576	668	782	1060	1270	1590	38.1	343	279	229	248	121	3.29
	M 1625	920	453	542	678	786	920	1250	1490	1870	41.3	343	279	229	251	121	3.29
	M 1750	1050	518	619	775	899	1050	1430	1710	2140	44.5	343	279	229	251	121	3.29
4	M 1750	1050	518	619	775	899	1050	1430	1710	2140	44.5	406	356	225	248	121	3.63
	M 1875	1180	583	696	872	1010	1180	1620	1920	2400	47.6	406	356	225	248	121	3.63
	M 2000	1390	683	816	1020	1190	1390	1880	2250	2820	50.8	406	356	286	311	152	7.26
	M 2125	1540	761	909	1140	1320	1540	2100	2500	3140	54.0	406	356	286	311	152	7.26
	M 2250	1680	825	987	1240	1430	1680	2270	2720	3400	57.2	406	356	286	311	152	7.26

$$\text{Flow Rate (l/min)} = K (\text{bar})^{0.44}$$

**Standard Materials: Brass, 316 Stainless Steel, PVC, Polypropylene, and PTFE.**