Monitor Nozzles

Fog Nozzle Model NF8107

Fire Engineering
Pty Limited

Description

The Model NF8107 fog nozzle is an extremely robust fog nozzle ideal for onshore and offshore applications. It is a single flow fog nozzle that maintains essentially the same flow rate when adjusted from straight stream to wide fog. Nozzles can be supplied with customised flow rates. The data below is for four of many flow options. The NF8107 is a constant flow nozzle with a 80mm BSP female inlet.

Flow Range: 800 lpm up to 4,500 lpm at 700 kPa inlet pressure.

Like all real fog nozzles, this nozzle has teeth so that it provides a full cone spray pattern for very effective cooling.

Specifications

Length: 177mm Diameter: 130mm Weight: 5.5 kg

Materials of Construction

316 Stainless steel
LG2 Gunmetal (bronze)
Nickel plated gunmetal

All nozzles are available in remote controlled versions as follows.

NF8107-RH	Hydraulic
NF8107-RE	Electric - IP66
NF8107-RE EX	Electric - EXd Class 1 Zone 1

Approvals

DNV Certificates
TAF000020N
TAF0000233

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Performance Data

2000 lpm setting

Nozzle Pressure (kPa)	Flow rate (lpm)	Throw (m) DN80 Commando Monitors	Throw (m) DN80 Warden Monitors
400	1512	48	46
500	1690	59	54
600	1852	61	57
700	2000	66	58
800	2138	73	57
900	2268	76	63
1000	2390	80	67

3000 lpm setting

Nozzle Pressure (kPa)	Flow rate (lpm)	Throw (m) DN80 Commando Monitors	Throw (m) DN80 Warden Monitors
400	2268	49	47
500	2535	56	49
600	2777	63	57
700	3000	66	62
800	3207	72	67
900	3402	75	68
1000	3586	77	78

4000 lpm setting

Nozzle Pressure (kPa)	Flow rate (lpm)	Throw (m) DN80 Commando Monitors	Throw (m) DN80 Warden Monitors
400	3024	56	47
500	3381	62	53
600	3703	70	58
700	4000	75	60
800	4276	80	65
900	4536	85	70
1000	4781	87	76

4500 lpm setting

Nozzle Pressure (kPa)	Flow rate (lpm)	Throw (m) DN80 Commando Monitors	Throw (m) DN80 Warden Monitors
400	3402	47	50
500	3803	57	56
600	4166	66	60
700	4500	74	62
800	4811	79	68
900	5103	84	71
1000	5379	87	.

This data is for the furthest water drop in approximately still air conditions and with the nozzle mounted on a monitor aimed 25º above horizontal. This is the standard method of rating fog nozzles, however, even a slight cross or head wind will reduce the throw by about 5 meters and an allowance for this should be made when designing systems. Ideally, monitor systems should assume only 75% of the nozzle maximum rate throw to allow for the impact of wind.