



UNIT NO. 19/20 Vardhaman Service Ind. Estate,
Behind Punjab & Sind Bank,
LBS Marg, Vikhroli (West), Mumbai 400 083.
TEL : +9122 2578 3335 \ 3336 \ 3337
FAX : +9122 2578 3338 \ 2655
E-MAIL : FIRE1@VIMALFIRE.COM

**"UL LISTED SHOTFIRE-750" AQUA FOAM NOZZLE-750 SELF INDUCTING
Type Regular Monitor**

TECHNICAL DATA SHEET

1. GENERAL DESCRIPTION

The manually operated Selfinducting non-aspirating Foam Monitor made of Stainless steel, capable of discharging 750 US GPM (2839 LPM) at 100 psi (7 bar) inlet pressure over a range of 52 meters in horizontal direction. Foam proportioning 3 % is done with help of Foam Inductor placed within the Nozzle. The Foam Monitor has facility for converting Water/Foam jet to fog and vice-versa very quickly and easily, even during continuous operation. Foam Monitor is provided with selflocking swivel geared bearing for smooth rotation in horizontal and vertical direction through hand wheel operation even under high operating pressures. A single fire fighter can manually operate the Foam Monitor with large flow capacity, long-range capability. The monitor assembly is designed to withstand the nozzle reaction force experienced during the operation of jet/ fog.

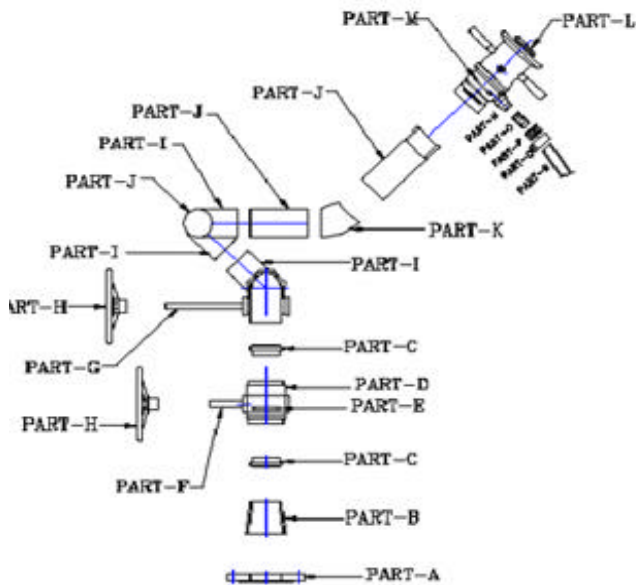
2. SALIENT FEATURES

1. Discharge Capacity of 750 US GPM (2839 LPM) at 100 psi (7 bar) inlet pressure:
2. Excellent Horizontal throw of 52 meter long and above
3. Excellent Fog Jet throw of 15 meter and above
4. Low Expansion, so less loss of foam due to breakage and thermal updraft and more cooling effect on burning surface.
5. Quick change over from jet to fog or spray even under water pressure with single fire fighter
6. Easy maneuverability in horizontal and vertical plane
7. Almost maintenance free

3. APPLICATION

The Monitor is highly effective with water and foam for fast knockdown of Fire at Oil & Gas Plants, Off-Shore & On Shore Platforms, Oil Refineries, Petroleum Storage Tanks & Depots, Chemical & Fertilizer Plants, Steel Plants, Power Plants, Ammunition Depots, Defense Stores, Naval Ships And Submarine, Ship & Oil tankers, Ports & Jetties Etc.

4. EXPLODED VIEW



PART NO	DESCRIPTION	QTY.	MATL.
A	4" NB 150 # S.D.R.F. FLANGE	1 NO	SS 316
B	4" X 3" CONCENTRIC REDUCER	1 NO	SS 316
C	NECKRING	4 NOS	SS 316
D	3" WORM BEARING	2 SETS	SS 316 / BRONZE
E	'O' RING	2 NOS	RUBBER
F&G	SHAFT	2 NOS	SS 316
H	HAND WHEEL	2 NOS	SS 316
I	3" NB SEAMLESS SCH 40 90° 1D. ELBOW	4 NOS	SS 316
J	3" NB SEAMLESS SCH.40 PIPE	3 NOS	SS 316
K	3" NB SEAMLESS SCH.40 45° ELBOW	1 NO	SS 316
L	750 GPM FOAM NOZZLE SELF TYPE	1 NO	SS 316
M	NOZZLE 'O' RING	1 NO	RUBBER
N	RUBBER WASHER	1 NO	RUBBER
O	SLEEVE	1 NO	SS 316
P	NUT	1 NO	SS 316
Q	HOSE CLIP	1 NO	SS 316
R	PVC HOSE	1 NO	PVC

5. TECHNICAL SPECIFICATION

MATERIALS OF CONSTRUCTION

1. Monitor body, barrel : SS 316
2. Swivel joint : SS 316 / Bronze
3. Discharge Nozzle : SS 316
4. Base Flange : SS 316
5. Worm & Worm wheel : SS 316
6. Foam control valve : SS 316
7. Pick up pipe connection : SS 316
8. Pick up tube : PVC

6. TECHNICAL DETAILS:

1. Flow at 100 psi (7 bar) pressure : 750 US GPM (2839 LPM)
2. Nozzle : Non-aspirating type
3. Induction Type : Self Inducting (Inbuilt Inductor in nozzle)
4. Induction Rate : 3 %
5. Monitor Elevation : +90 & - 30 Vertical
6. Rotation : 360 Horizontal.
7. Water way size : 75 NB
8. Pick up tube length : 3 mtrs long PVC tube
9. Hydrostatic Test Pressure : 21 bar.
10. Finish/ Paint : Fire red shade of Acrylic/PU/ Powder coating

7. PERFORMANCE AT 100 PSI (IN STILL AIR CONDITION)

1. Water jet at 30° from Horizontal plane : 52 mtrs.
2. Foam jet at 30° from Horizontal plane : 50 mtrs.
3. Fog jet at 30° from Horizontal plane : 15 mtrs.

8. APPROVAL: UL LISTED WITH FOLLOWING FEATURES

1. Nozzle : Non Air Aspirating Nozzle
2. Monitor Solution Flow : 750 GPM
3. Operating Pressure : 100 PSI
4. Induction : Self Inducting Type.