



FIRE CONTROLS PVT. LTD.



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Remote Controlled Monitor 1000 To 4000 US GPM (Electric / Hydro-Electric Operated)

TECHNICAL DATA SHEET

ELECTRICALLY OPERATED REMOTE CONTROL HIGH VOLUME LONG RANGE STAND POST TYPE FIRE FOAM MONITOR OF 1000 GPM CAPACITY:-

GENERAL DESCRIPTION

The Electrically Operated Remote Control non-aspirating Foam Monitor made of Stainless Steel, capable to discharging 1000 US GPM (3785 LPM) at 100 psi (7 bar) inlet pressure over a range of 60 meters in horizontal direction and 25 meters in vertical direction. Water operated Jet Ratio Controller Pump (JRCP) is provided, suitable for feeding foam concentrate solution to the monitor nozzle from distance of 50 meters. The Foam Monitor has facility for converting Water/Foam jet to fog and vice-versa very quickly and easily by remotely. Foam Monitor is provided with selflocking swivel gear bearing for rotation in horizontal and vertical direction remotely.

SALIENT FEATURES

1. High Discharge Capacity of 1000 US GPM (3785 LPM) at 100 psi (7 bar) inlet pressure
2. Excellent Horizontal throw of 60 meter long & above
3. Excellent Vertical throw of 25 meter high & above
4. Low Expansion, so less loss of foam due to breakage and thermal updraft and more cooling effect on burning surface.
5. Monitor can be placed 50 meter away from the foam concentrate
6. Quick change over from jet to fog or spray remotely.
7. Easy maneuverability in horizontal and vertical plane remotely.
8. Almost maintenance free

REMOTE CONTROL MONITOR OPERATING PANEL:

Remote Control Panel is operating on the 24 V, 50 Hz, 3 Phase electric power. The Panel used for remote control is of explosion proof type and suitable for use in Zone I, Group II hazardous areas as per relevant code. The entire electrical system is provided with heat resistant cables and is totally waterproof so that, during the fire fighting operation no short circuit can develop.

THE REMOTE CONTROL PANEL IS HAVING THE NECESSARY CONTROLS FOR THE FOLLOWING OPERATIONS:

- i) Master selector switch for ON & OFF
- ii) Push button control for rotation of monitor in horizontal plane as clockwise & Anti-clockwise direction.
- iii) Push button control for rotation of monitor in vertical plane as elevation & depression.
- iv) Fog to Jet control of Nozzle.
- v) Jet to fog control of Nozzle.
- vi) Emergency stop for all operations.

THE REMOTE CONTROL MONITOR HAS MANUAL OVERRIDE FACILITY FOR MANOEUVERING OF THE MONITOR IN CASE OF POWER FAILURE.

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, Air Port Run-Ways, Ammunition Depots, Defence General Stores, Naval Ships And Submarine, Fire Fighting Vessels / Tugs, Ports & Jetties Etc

TECHNICAL DETAILS:

MONITOR:

- A) Size : 4 inches
- B) Body : S.S. 304
- C) Rotation : 340 degree
- D) Elevation : +90 deg. & -30 deg.

SWIVEL JOINT:

- A) Material : LTB – Gr. 2
- B) Gear Wheel : LTB – Gr. 2
- C) Worm : Stainless Steel.

SELF-INDUCTING NOZZLE:

- a) Material of construction : SS 304 / LTB Gr -2
- b) Type of foam used : AFFF/ATC Foam
- c) Discharge capacity : 1000 GPM (3785 LPM)
- d) Throw horizontal
 - a. Water : 60 mtrs.
 - b. Foam : 55 mtrs.
- e) Throw Vertical : 30 mtrs to 40 mtrs
- f) Foam Expansion : 1 : 3 - 4
- g) Fog (curtain) : 100 deg.
- h) Spray : 140 deg.

AQUA FOAM JET RATIO CONTROLLER PUMP:

Water operated foam pump (JRCP) suitable for feeding foam concentrate solution to the monitor nozzle from min. distance of 50 meters in horizontal plane. The inlet & outlet of JRCP is provided with 63 mm. Male & female coupling.

- a) Material of Pump : LTB-Gr.2
- b) Delivery / Inlet : GM 2 ½" Male/Female coupling
- c) Housing : SS 304
- d) Pressure Gauge : Glycerin filled type.
- e) Foam Induction Rate : 3%
- f) Suction hose : 3 meters. Long fitted with suction Strainer of SS
- g) Delivery Distance : Aqua Foam Jet Controller Pump is capable enough to feed foam solution to the monitor nozzle from 50 meters in horizontal plane.

MONITOR FLANGE

- A) Size : 4" inch
- B) Material : S.S.
- C) Specification : Table H/ANSI-B-16.5 150 #

OTHERS CONSTRUCTION DETAILS:

- A) Welding : Radiography type
- B) Working Pressure : 7 to 10 bar
- C) Painting : Two coats of red enamel paint

