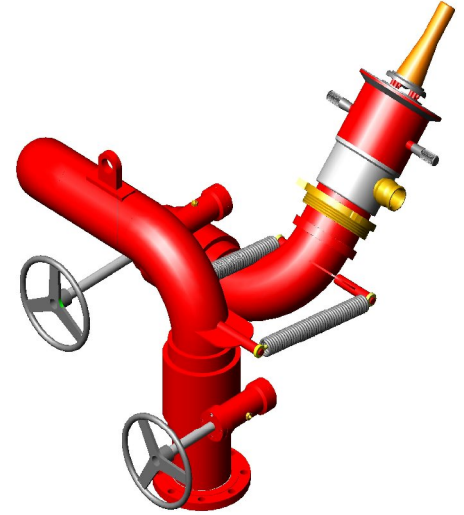


## FIRE FOAM MONITOR

## MODEL 3D HAZ CHEM

### 1. GENERAL DESCRIPTION

The 3D Hazchem Multipurpose 3 in 1 Monitor is specially designed to throw Water, Foam, Dry Chemical Powder and spray, Jet & Fog through single nozzle to fight against hydrocarbon / polar solvent fire by a single fire fighter. The Multipurpose 3 in 1 Monitor comes in the range of 1000 GPM, 2000 GPM, 4000 GPM and 6000 GPM. The monitor is equipped with non aspirating multipurpose type nozzle capable of discharging water, foam and DCP using a single nozzle at 100 psi (7 bar) inlet pressure over a range of 60 to 120 meters in horizontal direction and 15-30 meters in vertical direction.



Water operated Jet Ratio Controller Pump (JRCP) is provided suitable for feeding foam concentrates solution to the monitor nozzle from distance of 100 meters. The Monitor has facility for converting Water / Foam / Jet to fog and vice-versa and also Dry Powder can be jetted from the centre of nozzle very quickly and easily, even during continuous operation. Monitor is provided with self-locking swivel gear bearing for rotation in horizontal and vertical direction through hand wheel operation even under high operating pressures. The monitor assembly is designed to withstand the nozzle reaction force experienced during the operation of jet/ fog.

### 2. SALIENT FEATURES

- High Discharge Capacity range available from 1000 US GPM (3785 LPM) to 6,000 US GPM (22710 LPM) at 100 psi (7 bar) inlet pressure.
- Excellent Horizontal throw of 60 to 120 meter long.
- Excellent Vertical throw of 25 to 30 meter high & above.
- Dry Chemical Powder and Fog through single nozzle to fight against hydrocarbon / polar solvent fire by a single fire fighter.
- Quick change over of Water, Foam, Dry Powder and jet to fog or spray even under water pressure.
- Excellent Full Fog and Semi Fog Coverage.
- Jet Ratio Controlled Pump (JRCP) can be placed at a distance of 100 meters and above from the Monitor.
- Low Expansion, so less loss of foam & more cooling effect on burning surface.
- Fully Stainless Steel Construction.
- Easy maneuverability in horizontal and vertical plane.
- Almost maintenance free.
- Available In Fixed and Mobile Version.
- Various Metallurgy Options.

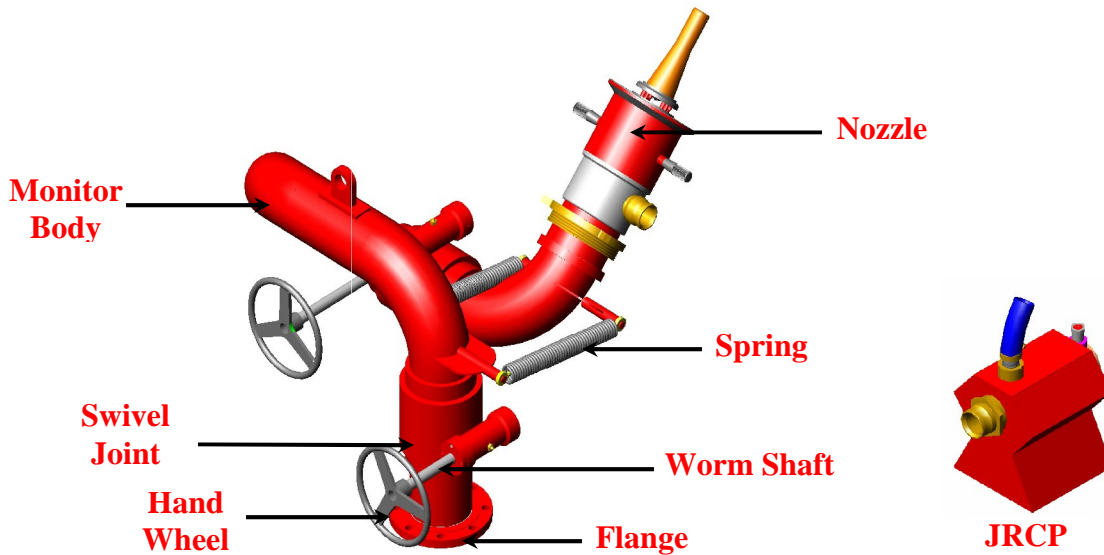
**FIRE FOAM MONITOR**

**MODEL 3D HAZ CHEM**

**3. TECHNICAL DETAILS:**

|                                       |   |                                           |
|---------------------------------------|---|-------------------------------------------|
| ✚ Flow at 100 psi (7 bar) pressure    | : | 1k, 2k, 4k, 6k US GPM.                    |
| ✚ Nozzle                              | : | Non-aspirating type                       |
| ✚ Discharge Agents                    | : | Water, Foam and DCP                       |
| ✚ Foam Induction Type                 | : | JRCP Type                                 |
| ✚ Foam Induction Rate                 | : | 3 %                                       |
| ✚ Monitor Elevation                   | : | +90° & - 30° Vertical                     |
| ✚ Rotation                            | : | 360° Horizontal.                          |
| ✚ Hydrostatic Test Pressure (Monitor) | : | 21 bar.                                   |
| ✚ Finish/ Paint                       | : | Fire red shade of Epoxy / Powder Coating. |

**4. MATERIAL OF CONSTRUCTION FOR MONITOR AND NOZZLE**



|    |                      |   |                                        |
|----|----------------------|---|----------------------------------------|
| a. | Base Flange          | : | SS 304                                 |
| b. | Monitor Body         | : | SS 304                                 |
| c. | Swivel joint         | : | SS 304 / Gun Metal / Bronze            |
| d. | Worm Shaft           | : | SS 304                                 |
| e. | Hand Wheel           | : | SS 304                                 |
| f. | Neck Ring            | : | SS 304                                 |
| g. | Foam Intake coupling | : | SS 304                                 |
| h. | Foam Nozzle          | : | SS 304 / Gun Metal / Bronze / Aluminum |
| i. | Lifting hook         | : | SS 304                                 |

**MONITOR ALSO AVAILABLE IN METALLURGY OF SS 316 FOR SPECIAL APPLICATION.**

**FIRE FOAM MONITOR**

**MODEL 3D HAZ CHEM**

**5. AQUA FOAM JET RATIO CONTROL PUMP (JRCP).**

Water operated foam pump (JRCP) is suitable for feeding foam concentrate solution to the monitor nozzle from a distance of minimum 100 mtrs in horizontal plane. The inlet & outlet of JRCP are provided with 63 mm. Male & female coupling respectively.

- |                                  |   |                                                                                                                                                      |
|----------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Material of Aqua Powered Pump | : | SS 304                                                                                                                                               |
| 2. Inlet & Outlet Coupling       | : | 2 ½" Male/Female coupling.                                                                                                                           |
| 3. Foam Induction Rate           | : | 3% (as per UL Guidelines)                                                                                                                            |
| 4. Pick up tube                  | : | PVC 3 Mtrs Long                                                                                                                                      |
| 5. Delivery Distance             | : | Aqua Foam Jet Controller Pump is capable enough to feed foam solution to the monitor nozzle from a minimum distance of 100 mtrs in horizontal plane. |

**6. AREAS OF APPLICATIONS:**

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, Defense General Stores, Naval Ships And Submarine, Fire Fighting Vessels / Tugs, Ports & Jetties Etc.

