

# VARSHA HF30

(HYDRO FOAM NOZZLE)



## TECHNICAL DATA

|                             |                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------|
| NOZZLE FLOW RANGE           | 1500 TO 2650 LPM<br>(400 TO 700 US GPM)                                            |
| WATER INLET CONNECTION      | Swivel female 2 1/2" BSP                                                           |
| FOAM CONCENTRATE CONNECTION | Female 1 1/4" BSP INLET                                                            |
| PICK UP TUBE                | 3.0 mtrs. long clear PVC with SS dip tube                                          |
| MATERIAL OF CONSTRUCTION    | Hard Anodized Aluminium / Bronze / StainlessSteel                                  |
| MAXIMUM WORKING PRESSURE    | 12 Bar (175 PSI)                                                                   |
| JET & FOG PATTERN           | With Spinning teeth                                                                |
| WEIGHT (Approx)             | Aluminium material - 5.7Kg<br>Bronze material - 12.7Kg<br>Stainless steel - 12.2Kg |

## APPLICATION

VARSHA HF30- Hydro Foam Nozzles have been designed for wide flow range from 1500 to 2650 LPM (400 to 700 US GPM) for use with Monitors.

These are fixed flow nozzles, simple and rugged with superior stream and reach. The straight stream from maximum reach can be easily changed to wide fog pattern under flow condition by rotation of the pattern adjustment sleeve. The nozzle is provided with spinning teeth ring.

The nozzle is made out of hard coat anodized Aluminium, Bronze or Stainless Steel with SS internals. It is self inducting nozzle equipped with a foam concentrate pick up tube of 3.0 meters long with a swivel connection.

The nozzle can be used as a water nozzle and when foam supply is established, it acts as a self inducting Foam Nozzle. The performance data shows effective stream trajectory in stand still air condition.

The maximum overall reach of last drop is approximately 3-5% more than the effective stream performance data. The jet stream may get effected considerably with tail or head wind.

The debris trapped in the nozzle may effect the nozzle performance. To remove trapped debris, the moving parts for smooth operation.

The nozzle must be operated periodically under full flow jet as well as under fog pattern.



## CAUTION

A trained personnel for fire fighting, with appropriate guidance and training must use the product to reduce the risk or injury. The nozzle must be fixed to the monitor carefully. The mismatched or damaged threads may cause leakage or uncouple the nozzle under operation.

Application of water or foam on an electric appliance can cause serious injury by electrocution, as water is a conductor of electricity.

The water supply to the nozzle must be gradual. Sudden surge of water supply must be avoided. The monitor mounting must be supported properly to support the nozzle reaction force.

## MAINTENANCE

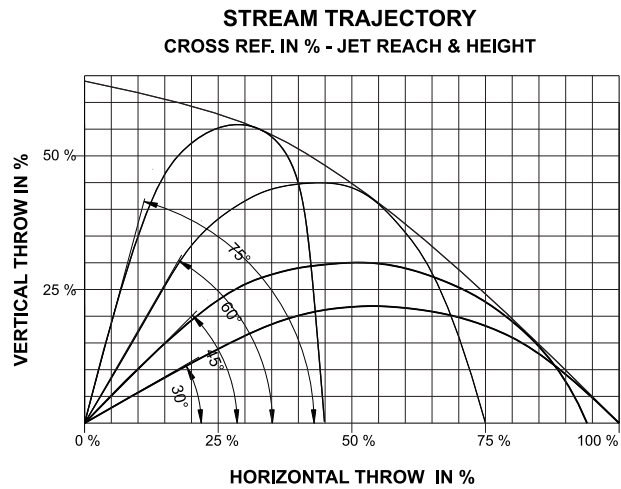
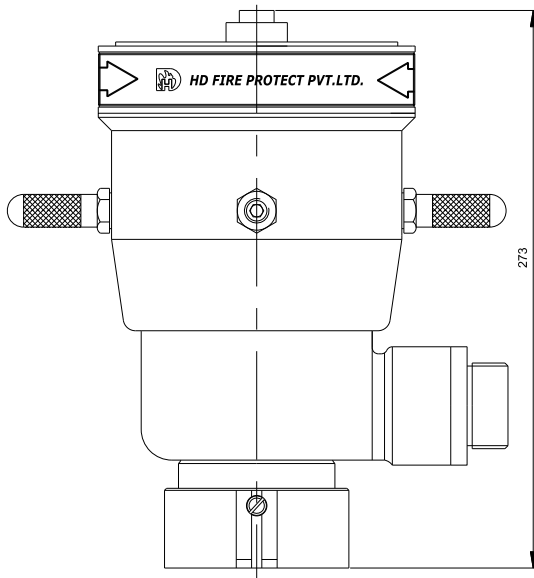
The nozzle must be inspected regularly for possible damage or dirt around the moving parts. If any abnormal conditions observed such as poor discharge, excessive wear, water leak, corrosion effect, damage etc., then nozzle must be taken out of service and repaired by qualified technician.

Under normal condition water must be flown through the nozzle periodically and dirt from around exterior moving parts must be cleaned, allowing nozzle to operate properly.

The nozzle must be inspected prior to and after each use. Greasing the moving parts and 'O' ring is required periodically. Over a time the seals may need to be replaced.

The owner is responsible for maintenance of the nozzle in proper operating condition.

After use with foam, flush with fresh water.



Note : Foam shutoff valve is optional.

**PERFORMANCE DATA**

| SET FLOW RATE<br>LPM (GPM) | FOAM CONCENTRATE<br>INDUCTION RATE | NOZZLE PRESSURE<br>KG/CM.SQ. (PSI) | ACTUAL FLOW RATE<br>LPM (GPM) | STRAIGHT STREAM<br>FOAM RANGE<br>METERS (FEET) |
|----------------------------|------------------------------------|------------------------------------|-------------------------------|------------------------------------------------|
| 1500 (400)                 | 3% OR 6%                           | 5.6 (80)                           | 1340 (354)                    | 36.0 (118)                                     |
|                            |                                    | 7.0 (100)                          | 1500 (396)                    | 40.0 (131)                                     |
|                            |                                    | 8.4 (120)                          | 1643 (434)                    | 41.0 (134.5)                                   |
| 2450 (650)                 | 3% OR 6%                           | 5.6 (80)                           | 2190 (580)                    | 43.0 (141)                                     |
|                            |                                    | 7.0 (100)                          | 2450 (648)                    | 49.0 (160)                                     |
|                            |                                    | 8.4 (120)                          | 2685 (710)                    | 50.5 (165.5)                                   |
| 2650 (700)                 | 3% OR 6%                           | 5.6 (80)                           | 2370 (626)                    | 43.0 (141)                                     |
|                            |                                    | 7.0 (100)                          | 2650 (700)                    | 50.0 (164)                                     |
|                            |                                    | 8.4 (120)                          | 2903 (767)                    | 51.5 (169)                                     |

PERFORMANCE DATA FOR FOAM STREAM RANGE ARE BASED AT 30 DEG. NOZZLE ELEVATION IN STILL AIR CONDITION AND WITH HD MONITOR. THE REACH IS FOR FOAM, WHEN USED AS WATER THE WATER REACH WILL INCREASE BY ABOUT 10 % TO 15 %.

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