

MASTER STREAM NOZZLE FOR MONITOR MODEL - VARSHA-40U



TECHNICAL DATA

NOZZLE MODEL	VARSHA 40U-500 VARSHA 40U-750 VARSHA 40U-1000
WATER INLET CONNECTION	Swivel female 3" BSP standard supply, 3" NH optional
MATERIAL OF CONSTRUCTION	Bronze with SS internals
MAXIMUM WORKING PRESSURE	14 Bar (200 PSI) UL Listed for 12 Bar (175 PSI)
JET & FOG PATTERN	120 degree angle
WEIGHT (Approx)	9.2Kg
APPROVAL	UL Listed with VAJRA 331 & Oscillating Monitor VAJRA 331S
ORDERING INFORMATION	Specify inlet connection & flow

DESCRIPTION

VARSHA 40U, is fixed gallonage master stream nozzle, designed for heavy-duty use on fixed monitors. The nozzle is factory set of flow 500, 750 or 1000 GPM. The flow can also be changed in the field by replacing plunger or addition of spacer. The flow pattern is easily changeable under flowing condition. Excellent for AFFF application when used with premixed water-foam solution.

The straight stream from maximum reach can be easily changed to wide fog pattern under flow condition by rotation of the nozzle pattern adjustment sleeve.

The performance data shown in this catalogue is effective stream trajectory in stand still air condition. The maximum overall reach of last water drop is approximately 3-5% more than the effective stream performance data given. The jet stream may get effected considerably with tail or head wind.

MAINTENANCE

The nozzle must be inspected regularly for possible damage or dirt around the moving parts. If any abnormal conditions are 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 or replaced.

The debris trapped in the nozzle may effect the nozzle performance. To remove trapped debris, the water flow must be stopped and thereafter, carefully unscrew and remove the nozzle deflector. Clean the nozzle and reassemble. While re-assembling the nozzle or as a normal preventive maintenance, water proof lubricant



must be used on seal and moving parts for smooth operation. The nozzle must be operated periodically under full flow straight stream and for fog pattern.

Under normal condition water must be flown through the nozzle periodically and dirt 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, nozzle to be flushed with fresh water.

If nozzle is used with salt water, sea water or very hard water, then flush it with fresh water after use to avoid any salt deposition on the surface.

CAUTION

A trained personnel for fire fighting, with appropriate guidance & 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 during operation.

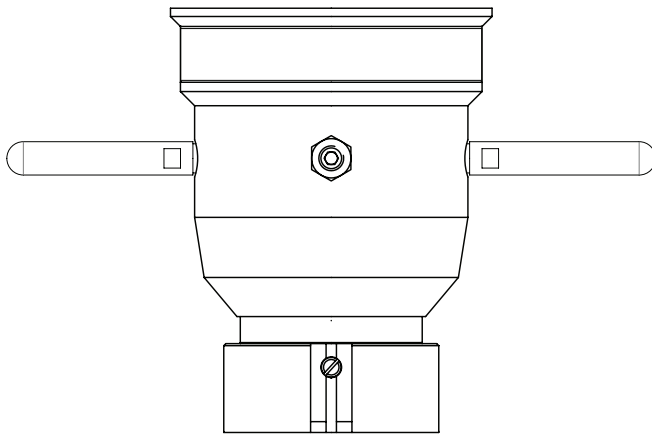
Application of water or foam on an electric appliance can cause serious injury by electrocution, as water is a conductor of electricity.

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.

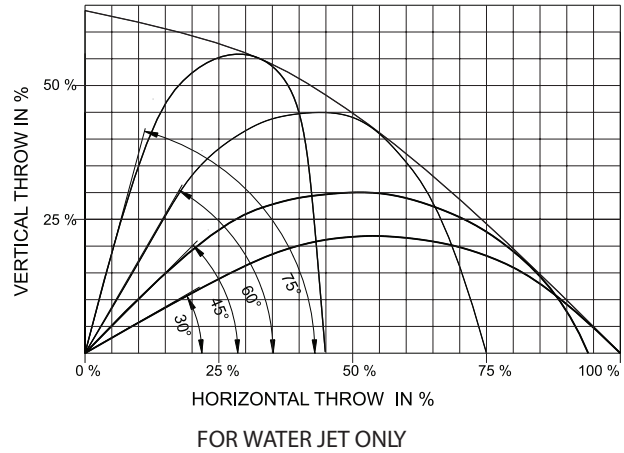
NOTE:

The Nozzle is UL-Listed with HD Monitor VAJRA 331 and Oscillating Monitor VAJRA 331-S, for premixed water foam solution, non-inducting Foam Nozzle.

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STREAM TRAJECTORY
CROSS REF. IN % - JET REACH & HEIGHT



PERFORMANCE DATA

SET FLOW RATE LPM (GPM)	PRESSURE KG/CM.SQ. (PSI)	ACTUAL FLOW RATE LPM (GPM)	STRAIGHT STREAM WATER RANGE IN METERS (FEET)
1900 (500)	5.6 (80)	1700 (450)	57 (187)
	7.0 (100)	1900 (500)	61 (200)
	8.4 (120)	2080 (550)	63 (207)
2850 (750)	5.6 (80)	2550 (674)	61 (200)
	7.0 (100)	2850 (750)	63 (207)
	8.4 (120)	3120 (825)	64 (210)
3785 (1000)	5.6 (80)	3385 (895)	63 (207)
	7.0 (100)	3785 (1000)	65 (213)
	8.4 (120)	4150 (1095)	66 (216)

PERFORMANCE DATA IS BASED AT 30 DEG. NOZZLE ELEVATION IN STILL AIR CONDITION AND WITH HD MONITOR. THE JET STREAM IS NOT IN OSCILLATING CONDITION. FOAM STREAM JET REACH WITH PREMIX WATER FOAM SOLUTION SHALL BE SIGNIFICANTLY LOWER THAN WATER JET REACH. THE ABOVE NOZZLE DATA IS WITH HD MONITOR INLET PRESSURE.

LIMITED WARRANTY

HD FIRE PROTECT PVT. LTD. hereby referred to as HD FIRE warrants to the original purchaser of the fire protection products manufactured by HD FIRE and to any other person to whom such equipment is transferred, that such products will be free from defect in material and workmanship under normal use and care, for two (2) years from the date of shipment by HD FIRE. Products or Components supplied or used by HD FIRE, but manufactured by others, are warranted only to the extent of the manufacturer's warranty. No warranty is given for product or components which have been subject to misuse, improper installation, corrosion, unauthorized repair, alteration or un-maintained. HD FIRE shall not be responsible for system design errors or improper installation or inaccurate or incomplete information supplied by buyer or buyer's representatives. HD FIRE will repair or replace defective material free of charge, which is returned to our factory, transportation charge prepaid, provided after our inspection the material is found to have been defective at the time of initial shipment from our works. HD FIRE shall not be liable for any incidental or consequential loss, damage or expense arising directly or indirectly from the use of the product including damages for injury to person, damages to property and penalties resulting from any products and components manufactured by HD FIRE. HD FIRE shall not be liable for any damages or labour charges or expense in making repair or adjustment to the product. HD FIRE shall not be liable for any damages or charges sustained in the adaptation or use of its engineering data & services. In no event shall HD FIRE's product liability exceed an amount equal to the sale price. The foregoing warranty is exclusive and in lieu of all other warranties and representation whether expressed, implied, oral or written, including but not limited to, any implied warranties or merchantability or fitness for a particular purpose. All such other warranties and representations are hereby cancelled.

NOTICE:

The equipment presented in this bulletin is to be installed in accordance with the latest publication standards of NFPA or other similar organisations and also with the provision of government codes or ordinances wherever applicable. The information provided by us is to the best of our knowledge and belief, and consist of general guidelines only. Site handling and installation control is not in our scope. Hence we give no guarantee for result and take no liability for damages, loss or penalties whatsoever, resulting from our suggestion, information, recommendation or damages due to our product. Product development is a continuous programme of HD FIRE PROTECT PVT. LTD. and hence the right to modify any specification without prior notice is reserved with the company.

