V3/25

HD FIRE PROTECT

Protecting what matters most to you



QUALITY YOU CAN TRUST

EXPERIENCE
YOU CAN COUNT ON

HD FIRE PROTECT LIMITED

www.hdfire.com

For over 35+ years,

HD Fire Protect has been involved in designing, developing and manufacturing worldclass firefighting equipment and systems. We have been involved in meeting ever-changing and demanding industry standards, providing a wide range of products, from simple industrial fire protection equipment complex firefighting skids.









Our Philosophy

"Committed to protecting" are simple words, but these have a very deep meaning when put into practice. These important words represent our prime principles to which we will always be dedicated.

Vision

To be recognised as one of the world's most trusted and innovative manufacturer of fire-fighting products by providing our customers highest quality products that combine performance and advanced technology with value pricing while achieving 100 % customer satisfaction.











Approvals & Certifications

Deluge Valves

LISTED

DELUGE VALVE HD-VIRAT® SERIES - MODELS V2, V3, V5 & V6





- V2 & V3: Cast Steel & Ductile Iron ASTM A536 construction
- V5: Nickel Aluminium Bronze BS1400 Gr AB2 construction
- V6: Stainless Steel construction
- Maximum service pressure: 20.6 Bar (300 psi)
- Horizontal or Vertical mounting
- Flanged (ANSI) or Grooved Type Connection
- Auto-reset type
- Easily trimmed for actuation by manual, remote solenoid valve & with wet or dry pilot
- Comes with an optional - **Pressure Reducing Pilot Trim**
- Fusion bond epoxy (FBE) coated







DELUGE VALVE MODELS H2, H3 & H5

- H2: Cast Steel ASTM A216 WCB construction
- H3: Ductile Iron ASTM A536 construction
- H5: Nickel Aluminium Bronze BS1400 Gr AB2 construction with suitable trim
- Maximum service pressure 17.2 Bar (250 psi)
- Flanged (ANSI) or Grooved Type Connection
- Diaphragm operated with rubber to metal drip-tight positive sealing
- Auto-reset type
- Easily trimmed for actuation by manual, remote solenoid valve & with wet or dry pilot
- Internal and external surfaces epoxy coated for extra protection
- Optional Rilsan® Thermoplastic Coating, Halar® Coating, Fusion Bond Epoxy, or Special Epoxy Coating for corrosive environments
- Complete trim is available in nickel aluminium bronze/monel material, suitable for sea water use

DELUGE VALVE MODEL A



- Cast Iron construction
- Maximum service pressure 12 Bar (175 psi)
- Vertical inlet and Horizontal outlet
- Flanged connection dimensions to ANSI B 16.1
- Diaphragm operated with rubber to metal drip-tight positive sealing
- Reset without any tools
- Easily trimmed for actuation by manual, remote solenoid valve & with wet or dry pilot



DELUGE SKID MODEL D-PACK



- D-PACK is a pre-assembled deluge valve skid package enclosed within a free-standing cabinet designed to occupy minimum floor space and also provide an aesthetically pleasing appearance
- Suitable for all HD deluge valve models
- Cabinet available in 14 gauge steel, SS304 or SS316 material
- RED finish
- The front door of the enclosure is fully hinged to maximize access to the enclosure
- All side panels are easily removable for maintenance
- Comes with downstream, upstream and by-pass butterfly valves
- All gauges externally visible through polycarbonate window
- Pressure switches, solenoid valve pre-wired and terminated into a junction box
- Completely pre-assembled and tested in factory
- Easy and fast installation





DELUGE SKID MODEL DSK

- Deluge Skid DSK is professionally pre-assembled deluge valve skid package
- Suitable for all HD deluge valve models
- Comes with downstream, upstream and by-pass butterfly valves
- Pressure switches, solenoid valve mounted, pre-wired and terminated into a junction box
- Can be custom designed and manufactured
- Cost effective
- Easy and fast installation

Water Spray Nozzles



MEDIUM VELOCITY WATER SPRAY NOZZLE (1/2")

- Size: 1/2" BSPT or NPT
- Open orifice design used in deluge water spray system
- Non-automatic fixed pattern, external deflector
- Solid cone discharge
- K-factor (Metric): 18, 22, 26, 30, 35, 41, 51, 64, 79, 91 & 102
- K-factor (US): 1.26, 1.54, 1.80, 2.10, 2.45, 2.87, 3.57, 4.48, 5.53, 6.37 & 7.14
- Spray angle: 65°, 80°, 90°, 100°, 110°, 120°, 140° & 160°
- Each Nozzle permanently marked with model number, batch number, spray angle, K-factor, UL & FM mark
- Approvals: UL Listed and FM Approved (All Models)

  Lloyd's Register Type approval for marine applications

  FM Approved Blow-Off Plug



MODEL MV-A & MV-AS

- Brass construction
- Finish - Brass or Nickel Chrome



MODEL MV-B & MV-BS

- Stainless Steel construction
- Finish - Natural



MODEL MV-E

- Aluminium Bronze construction
- Finish - Natural
- Suitable to be used with brackish or sea water



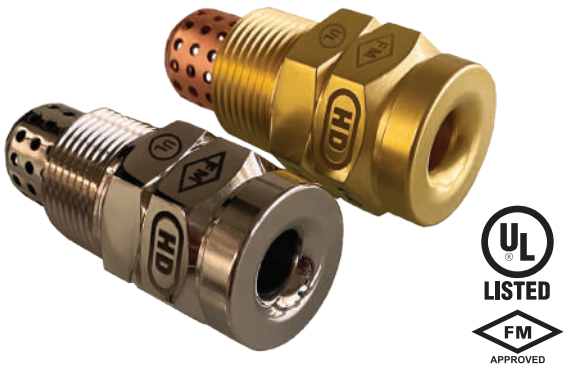
REVERSE ACTION NOZZLE

- Model: MV-C (SS), MV-CB (Brass), MV-CE (Al Bronze) MV-CS (SS construction with SS strainer), MV-CBS (Brass construction with Copper Strainer)
- K-factor (Metric): 30, 51, 64, 79, 102 and 18 & 22 in MV-CS & MV-CBS
- K-factor (US) 2.1, 3.5, 4.35, 5.45, 6.75 and 1.3 & 1.5 in MV-CS & MV-CBS
- Spray angle: 120° & 140°



HIGH VELOCITY WATER SPRAY NOZZLE (3/4")

- HV-AS in Brass material with Copper Strainer
- HV-BS in Stainless Steel material with Stainless Steel Strainer
- Non-automatic, open orifice, directional spray nozzle
- For high velocity water application for protection of flammable liquid and electric transformers
- K-factor: K-22 x 75°, K-18 x 80°, K-26 x 100°, K-32 x 90°, K-42 x 115° and K-23 x 120°
- Nozzle also available with blow-off cap



HIGH VELOCITY WATER SPRAY NOZZLE (1")



- HV-HB in Brass material with Copper Strainer
- HV-H in Stainless Steel material with Stainless Steel Strainer
- Non-automatic, open orifice, directional spray nozzle
- For high velocity water application for protection of flammable liquid and electric transformers
- K-factor: K-48 x 100°, K-58 x 100°, K-61 x 75°, K-78 x 90°

WINDOW / WATER CURTAIN NOZZLE MODEL CNS

- Size: 1/2" & 3/4" BSPT or NPT
- Non-automatic open orifice, fix pattern
- Used as curtain nozzle or window sprinkler



REVOLVING NOZZLE

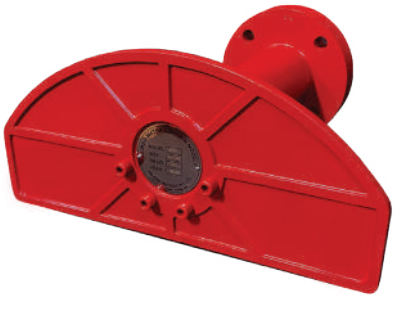


- Size: 65, 80 or 100 mm flanged (2.5", 3" or 4")
- Model: RH
- Bronze construction
- Working pressure 11.76 Bar (30 to 175 psi)
- Flow 285 to 950 lpm (75 to 251 gpm) at 2 kg/cm.sq.
- Coverage: 10 metres in diameter at 1.96 Bar (30 psi)

TANK COOLING NOZZLE MODEL TS/TSS

- Size: 1/2" & 3/4" BSPT or NPT
- Non-automatic open orifice, fix pattern
- Used for Tank cooling applications





JUMBO CURTAIN NOZZLE

- Size: 65, 80 or 100 mm flanged end (2.5", 3" or 4")
- Stainless Steel construction
- Used to segregate the area by creating water curtain
- Flow 1000 to 3000 lpm (264 to 792 gpm) at 6.86 Bar (100 psi)
- Produces flat water curtain projecting upwards

System Equipment & Valves

BUTTERFLY VALVES



- Wafer, Lugged and Grooved Type Butterfly Valves with Tamper Switch
- Size: 2" to 12"
- Max. Working Pressure: 300 psi
- Body & Gear Box: Ductile Iron Construction (ASTM A536, 65-45-12)
- Disc: Ductile Iron with EPDM
- Drive Shaft: Stainless Steel
- Fusion Bonded Epoxy Coated



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FLOW & PRESSURE SWITCHES

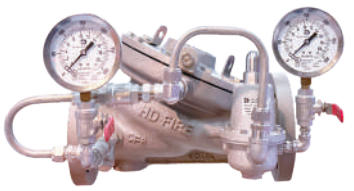
- Designed to detect pressure increase or decrease in fire protection systems
- Explosion-proof model available



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PRESSURE REDUCING VALVE

- Model PRV-V1
- Size: 2" to 8"
- Ductile Iron Construction
- Pressure range : Max inlet pressure of 300 psi and outlet range of 50-200 psi
- Fusion Bonded Epoxy Coated



VERTICAL & WALL POST INDICATORS FOR NRS GATE VALVES

- HD-IP Vertical Post Indicator is used to identify the position of underground non-rising stem valve and provides means to operate the same non-rising stem gate valve.
- HD-WP Wall Post Indicator shows the position of non-rising stem gate valve and provides means to operate that same non-rising stem gate valve, when it is behind a wall.
- Suitable for 4"-12" size "HD" NRS Gate Valves
- Vertical & Wall Post Indicators are fusion-bond epoxy coated.

GATE VALVES

- OS&Y and NRS resilient Wedge Gate valves
- Size: 2" to 24"
- Max. Working Pressure: 300 psi
- Body: Ductile Iron Construction (ASTM A536, 65-45-12)
- Disc: Ductile Iron with EPDM
- Stem: Stainless Steel
- Flanged end connections are available either in ANSI/AWWA or BS PN 16
- Fusion Bonded Epoxy Coated



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SWING CHECK VALVES

- Flanged and Grooved Type
- Horizontal or Vertical Installation
- Size: 2" to 12"
- Max. Working Pressure: 300 psi
- Ductile Iron Construction (ASTM A536, 65-45-12)
- Fusion Bonded Epoxy Coated

Y-TYPE STRAINERS

- Flanged and Grooved Type
- Size: 2" to 12"
- Max. Working Pressure: 300 psi
- Ductile Iron Construction (ASTM A536, 65-45-12)
- Fusion Bonded Epoxy Coated





PRESSURE GAUGES

- Model HDP1 and HDP2
- Dial Size: 90 mm (HDP1) & 100 mm (HDP2)
- Range: 0 to 300 psi
- Polished Stainless Steel, weather proof case
- Bourdon Tube: Phosphorous Bronze (HDP1) & Monel (HDP2)
- Model HDP2 suitable for use with Sea Water



MULTI-JET CONTROL (MJC) VALVE

- Size: Inlet of 40 mm with double outlet of either 32 or 25 mm
- Bronze construction
- Max. service pressure: 11.76 Bar (175 psi)
- Temperature rating 57°C, 68°C, 79°C, 93°C
- End connection BSPT (NPT optional)



ZONE CONTROL VALVE ASSEMBLY

- Zone control manifold assembly incorporates a flow switch, test drain, system pressure gauge and pressure relief valve.
- Sizes: 2.5" to 8"
- Butterfly valve can be connected (optionally)
- Max working pressure: 175 psi



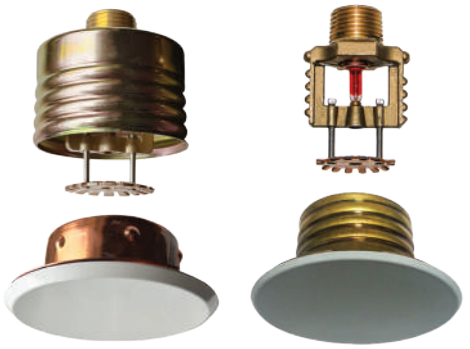
Sprinklers

PENDENT AND UPRIGHT SPRINKLER

- Standard and quick response with standard coverage
- Pendent or Upright mounting
- Temperature rating: 57°, 68°, 79° & 93°C
- K-factor 5.6 and 4.2
- Brass, Chrome or White / Custom colour finish
- Pendent sprinkler model available with 141°C & 182°C



CONCEALED SPRINKLER



- Standard and quick response
- Temperature rating:
  - 57°C & 68°C for Sprinkler bulb & 57°C for Cover Plate
  - 79°C & 93°C for Sprinkler bulb & 68°C for Cover Plate
- K-factor 5.6
- Brass Sprinkler with White or Chrome finish Cover Plate

RECESSED SPRINKLER

- Pendent or sidewall mounting
- Sprinkler comes with two-piece Recessed Escutcheon with recessed adjustment from the flush position
- Escutcheon plate in powder coated white finish or chrome finish



HORIZONTAL SIDEWALL SPRINKLER



- Standard and quick response with standard coverage
- Horizontal Sidewall mounting
- Temperature rating: 57°, 68°, 79° & 93°C
- K-factor 5.6
- Brass, Chrome or White / Custom colour finish

SPRINKLER GUARD

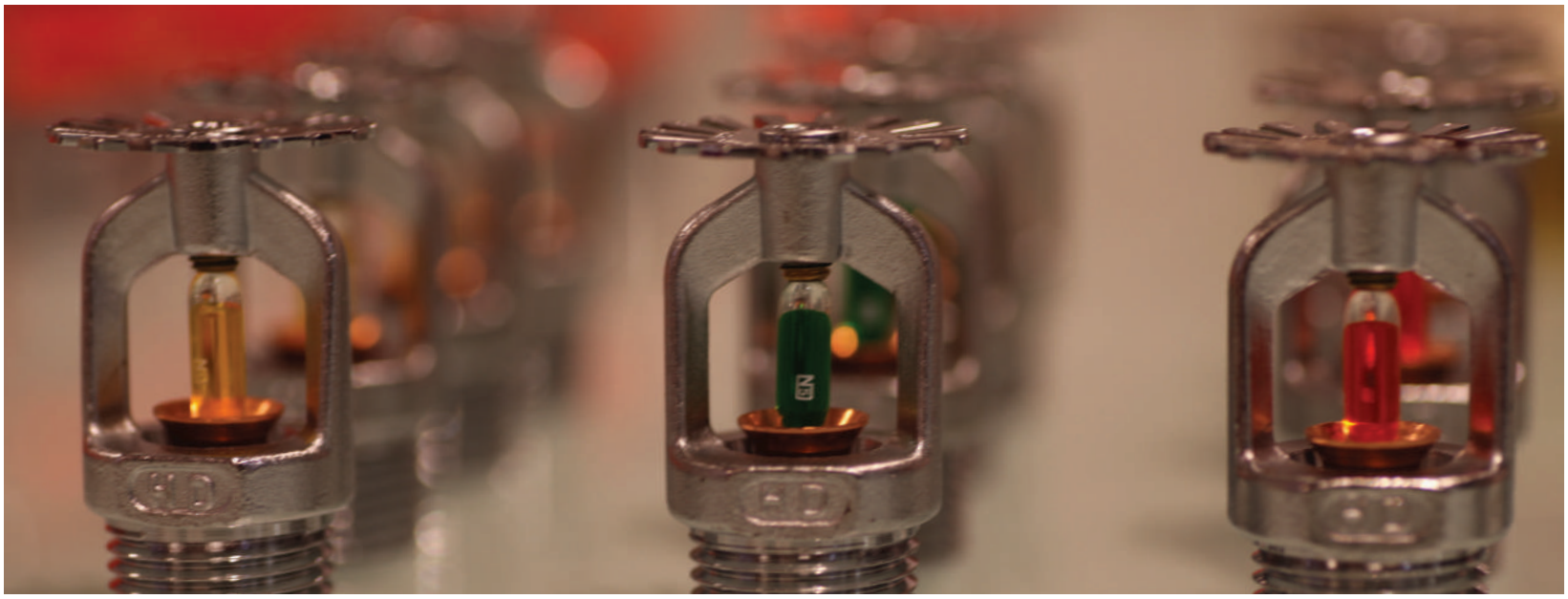
- Sprinkler guard comes in hard-wired cage design, chrome plated
- Used for encasing the sprinkler and protecting it from any inadvertent damages
- Suitable for pendent and upright mounted sprinklers



WINDOW SPRINKLER- VERTICAL SIDEWALL

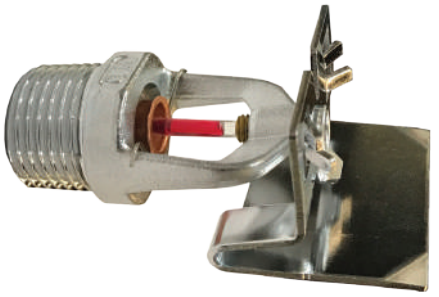
- Standard and quick response with standard coverage
- Vertical Sidewall mounting
- Temperature rating: 57°, 68°, 79° & 93°C
- K-factor 5.6 and 4.2
- Brass, Chrome or White/ Custom colour finish





EXTENDED COVERAGE SPRINKLER

- Quick response with extended coverage
- Horizontal side-wall mounting
- Temperature rating: 57°, 68°, 79° and 93° C
- K-factor 5.6
- Brass, Chrome or White / Custom colour finish



LISTED

PENDENT, UPRIGHT AND SIDEWALL (K8)

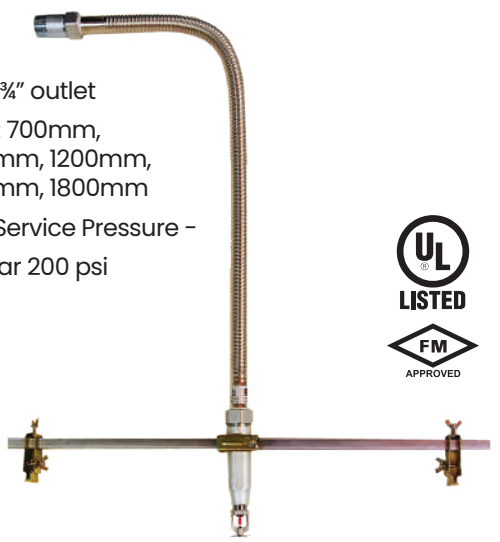
- ¾" BSPT/NPT
- Standard and quick response with standard coverage
- Pendent or Upright mounting
- Temperature rating: 57°, 68°, 79° and 93° C
- K-factor 8



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SPRINKLER FLEXIBLE DROP

- Flexible Sprinkler Connections
- Braided & Unbraided
- Complete unit, a corrugated Stainless Steel flexible with nipple, reducer, Bar and brackets



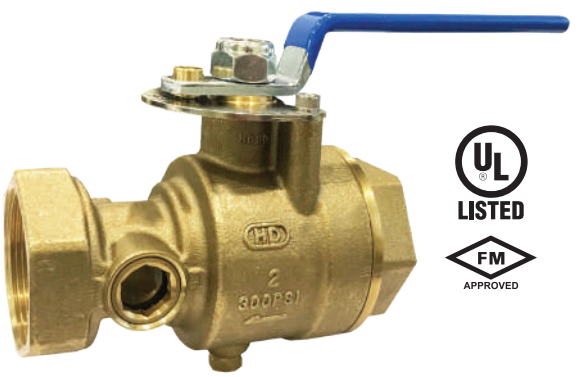
- ½" or ¾" outlet
- Sizes: 700mm, 1000mm, 1200mm, 1500mm, 1800mm
- Max Service Pressure - 13.8 Bar 200 psi

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TEST AND DRAIN VALVES

- Size: 1", 1-¼", 1-½", 2"
- Screwed and Grooved type end connection
- Max. Working Pressure 300 psi
- K-factor 5.6 or 4.2 (optional)
- Brass construction (ASTM B584)
- Integral tamper resistant sight glass



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Alarm Valves

ALARM VALVE MODEL H

- Size: 80, 100, 150 & 200 mm (3", 4", 6" & 8")
- Ductile Iron ASTM A536 construction
- Maximum service pressure 17.2 Bar (250 psi)
- Vertical mounting
- End Connection: Flanged x Flanged, Grooved x Grooved, Flanged x Grooved
- Variable Pressure Trim with Retard Chamber and Water Motor Gong
- Fusion Bonded or Epoxy Painted internally & externally
- For use in wet pipe (automatic sprinkler) fire protection system
- Automatically actuates electrically and/or hydraulically operated alarms during steady flow of water in sprinkler systems



WATER MOTOR GONG BELL MODEL GA

- Hydraulically operated mechanical bell used along with fire protection system valves
- Corrosion resistant Aluminium alloy material, epoxy coated all over
- Wall mounted (Type B) or direct online mounting type (Type A)



RETARD CHAMBER MODEL RC9

- Retard Chamber is used with Alarm Valve Trim when variable pressure is anticipated in the system. It is a holding tank to prevent sounding of Sprinkler Alarm during water pressure surge
- Stainless Steel material of construction
- Connection: 3/4" BSPT (F)



Pre-Action Systems





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HD PRE-PACK® PRE-ACTION SYSTEM

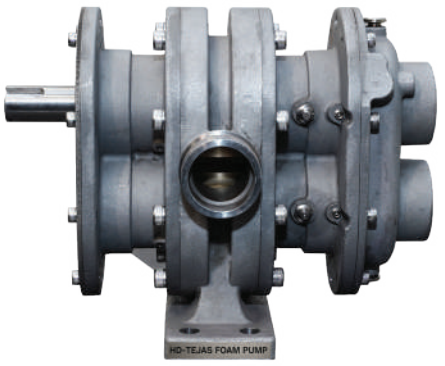
HD Pre-Pack® Pre-action system is perfect system to be used in applications where you need protection against inadvertent flooding due to sprinkler systems. Professionally pre-assembled cabinet with or without inbuilt oil-less compressor with control panel.

Trim Configurations:

- Single Interlock Pre-Action System with Supervised Wet Pilot Actuation
- Single Interlock Pre-Action System with Supervised Dry Pilot Actuation
- Single Interlock Pre-Action System with Supervised Electric Release
- Double Interlock Pre-Action System with Electric-Electric Actuation
- Double Interlock Pre-Action System with Electric-Pneumatic Actuation
- Above options are available with Nitrogen Generators



Foam Proportioners



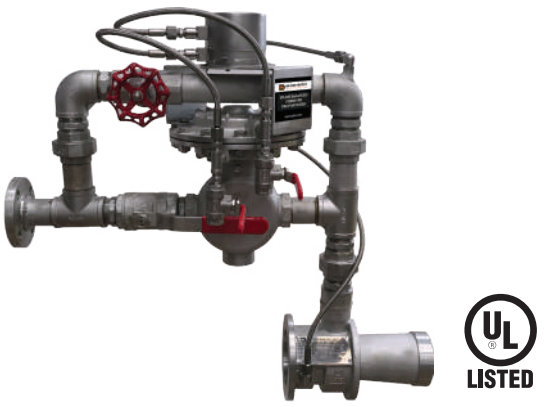
FOAM CONCENTRATE GEAR PUMP

- Tejas Series Internal rotary gear pump
  With timing gear synrchronize the two rotors
- Pump Drive: Electric / Diesel Engine.
- Pressure Range: 0-300 PSI.
- Speeds: 1000, 1500, and 1800 RPM.
- Casing: Corrosion-resistant Bronze and Stainless Steel.
- Capable of pumping foam concentrates as well as water.
  Application: Ideal for foam proportioning systems & foam skidst

INLINE BALANCED PRESSURE PROPORTIONER

MODEL PS, PB, PMS, PBS

- Size: 65, 80, 100, 150 & 200 mm size (2.5", 3", 4", 6" & 8")
- Flow ranging from 270 to 18500 lpm
- Bronze or Stainless Steel material
- Duplex Pressure Gauge
- Working pressure 2.74 Bar to 13.72 Bar (40 to 200 psi)
- Flanged or Wafer Type Proportioner





FOAM CONCENTRATE BY-PASS VALVE

MODEL BV & BVS

- Size: 40 & 50 mm (1.5" & 2")
- Bronze or Stainless Steel construction
- Female BSP end connection
- Suitable for use in Balanced Pressure FoamProportioning System

INLINE FOAM INDUCTOR

- Size: 65, 80, 100 & 150 mm (2.5", 3", 4" & 6") size with fix flow of 75 to 3500 lpm
- Bronze or Stainless Steel construction
- Working pressure 6.27 Bar to 12 Bar (90 to 175 psi)
- Maximum back pressure as 65%
- Each unit is calibrated and factory tested for flow, induction rate at maximum back pressure



Foam Proportioners

FOAM CONCENTRATE STORAGE TANK

- Capacity: 200 to 15000 liters (53 to 4000 gal.)
- Stainless Steel 304/316 material
- Expansion dome of 2% tank capacity
- RAL 3001 Epoxy Painted or Custom
- Tank can be custom made with inline inductor mounted on the tank





MOBILE FOAM UNIT

- 160 litres capacity in Fiber Glass Foam Tank
- 120 to 220 litres capacity in Stainless Steel Foam Tank
- Two solid rubber wheels for easy maneuver by one person
- Mounted with Bronze or Stainless Steel foam inductor and Aluminium low expansion foam branch pipe
- Flow rate of 225/450 lpm (60/120 gpm) at 6.86 Bar
- Provision of mounting two fire hoses
- Fire hoses and Foam concentrate supply (optional)



PORTABLE INLINE INDUCTOR

- Size: 2.5”
- Stainless Steel construction
- 225/450 lpm constant flow



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FOAM BRANCH PIPE



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- Hand held foam branch pipe for long range performance
- Size: 60 NB with 2.5” inlet
- Aluminium construction



Foam Bladder Tank Proportioning System

- Capacity: 140 to 20,000 liters (36 to 5285 gal)
- Vertical or Horizontal unit
- Maximum working pressure 12 Bar (175 psi)
- Carbon Steel or Stainless Steel Construction
  Tank made to latest revision of
  ASME Code Section VIII Div I
- Compatible with all foam concentrates
- Nylon reinforced Buna-n-rubber bladder
- Proportioner pre-piped on to the tank
- Bladder Tank filling kit supplied as an option





RATIO CONTROLLER

- Size: 65, 80, 100, 150 & 200 mm (2.5”, 3”, 4”, 6” & 8”)
- Corrosion resistant Bronze or Stainless Steel construction
- Water type design as well as Flanged type available
- Flow from 100 to 17,860 lpm

FOAM CONCENTRATE CONTROL VALVES MODELS CV & H

- Size: 25, 40 and 50 mm (1”, 1½” & 2”)
- Stainless Steel Construction
- Hydraulically controlled
- Working pressure 2.05 Bar to 12 Bar (50 to 175 psi)
- Model CV is FM Approved with Foam Bladder Tank System



Foam Concentrates & Equipments



AR–SFFF
- HD AR–SFFF is an alcohol-resistant, **non-fluorinated foam concentrate** in type 3x3% models

AFFF-C6
- HD AFFF is available as 1%, 3% and 6% concentrate

AR-AFFF-C6
- HD AR-AFFF is available in type 1 X 3%, 3 x 3% and 3 X 6% concentrate

FP-C6
- HD FP is available as 3% and 6% foam concentrate

FFFP
- HD FFFP is available as 3% foam concentrate

AFFF 3FZ-C6
- AFFF Foam concentrate suitable for storage and use at low temperature up to -18˚C (0˚F)



- Compatible with complete range of HD foam equipment
- Can be used with fresh water as well as seawater
- All Foam Concentrates available in freeze protected range
- ICAO Approved AFFF foam for aviation sector

FOAM-WATER SPRINKLERS MODEL F1, H & H1

- Size: 1/2" BSPT / NPT
- Air aspirating type
- Stainless Steel or Bronze construction
- Working pressure 1.96 Bar to 3.92 Bar (30 to 60 psi)
- K- Factor: 42



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FOAM CHAMBER MODEL FCA & FCA-S

- Size: 50, 65, 80, 100 and 150 NB (2”, 2.5”, 3”, 4” and 6”)inlet
- Flow from 150 to 3300 lpm (26 to 873 gpm)
- Carbon Steel or Stainless Steel material
- Working pressure 2.74 Bar to 6.86 Bar (40 to 100 psi)
- Epoxy painted
- Stainless Steel orifice plate fitted with foam chamber
- Frangible glass vapour seal
- Solid or split deflector



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RIM SEAL FOAM POURER MODEL RPA & RPA-S

- Size: 65 NB (2.5”)
- Flow 50 to 550 lpm (13 to 146 gpm)
- Rim Seal Pourer is designed to discharge foam gently as it expands and slides down inside of the tank shell and directly in the rim seal area
- Carbon Steel or Stainless Steel Construction
- Epoxy painted

FOAM MAKER MODEL FMA & FMA-S

- Size: 50 & 65 NB (2” & 2.5”)
- Flow 75 to 550 lpm (20 to 146 gpm)
- Carbon Steel or Stainless Steel construction
- Working pressure 2.74 Bar to 6.86 Bar(40 to 100 psi)
- Epoxy painted
- Stainless Steel orifice plate fitted with foam maker



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Monitors

MONITOR VAJRA 331 & VAJRA 331B



- Cast Bronze Construction
- 360° continuous horizontal rotation and +90° & -45° vertical elevation or optional +85° & 0°/-15°/ -30°vertical elevation
- Double Row of SS ball bearing & grease fittings
- Max operating pressure: 15.69 Bar(230 psi)
- Flow up to 1000 gpm (3800 lpm)
- Vertical and horizontal movement by handle and manual lock

MONITOR VAJRA 433

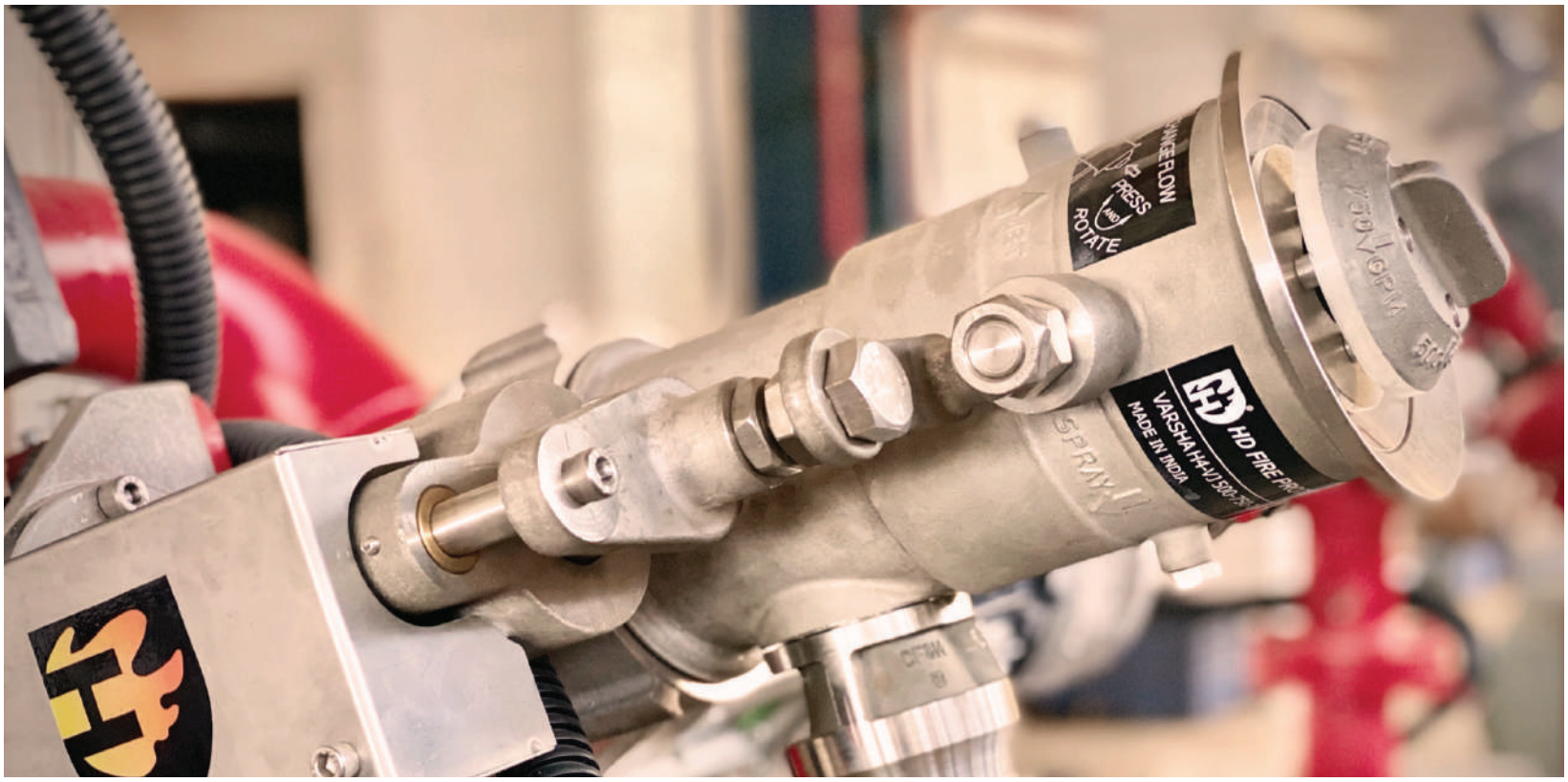


- Cast Bronze Construction
- Fully enclosed gear
- Double row of Stainless Steel ball bearing with grease fittings
- Max operating pressure: 12 Bar (175 psi)
- 115 mm waterway with 100 or 150 mm (4" or 6") flanged inlet and 4" BSP male threaded outlet
- 360° continuous horizontal rotation, +90°, -45° vertical elevation
- Red finish



WATER POWERED OSCILLATING MONITOR VAJRA 331-S

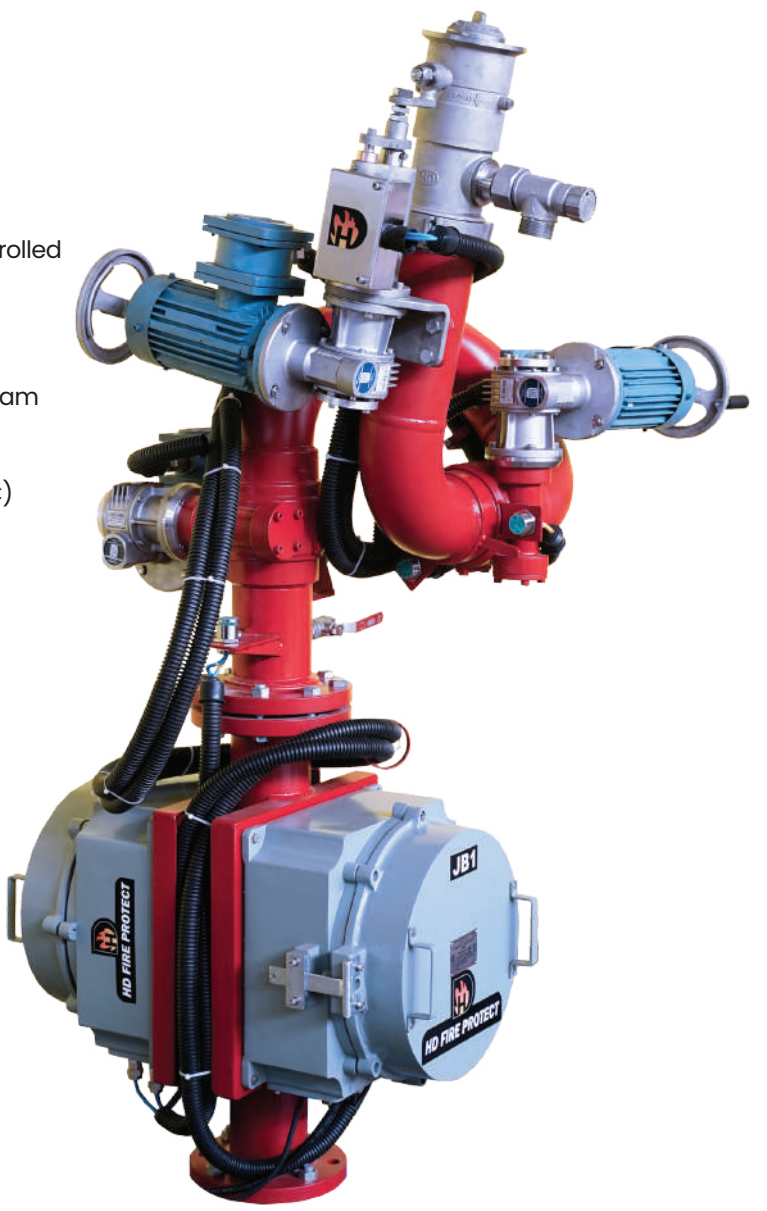
- Cast Bronze Construction
- 0 to 120° Oscillating Angle, adjustable in 6 set points
- Water driven wheel drives the oscillating mechanism
- No external wiring or hydraulic control required
- Double row of SS ball bearing & grease fittings
- Max operating pressure 12 Bar (175 psi)
- Flow up to 1000 gpm (3800 lpm)



REMOTE CONTROLLED MONITOR VARUN443-ER AND VARUN643-ER

- Stainless Steel waterway
- 100 or 150 mm (4" or 6") inlet for 443 and 150 or 200 mm (6" or 8") inlet for 643 models
- Explosion proof motors for electric remote-controlled operation
- Supplied with explosion proof Control Panel
- Maximum operating pressure: 12 bar (175 psi)
- Supplied with variable-flow/fixed-flow water-foam nozzles with flow of 500/750/1000 and 1000/1500/2000 gpm for 443 and 643 models
- Available with or without jet ratio controller (JRC)





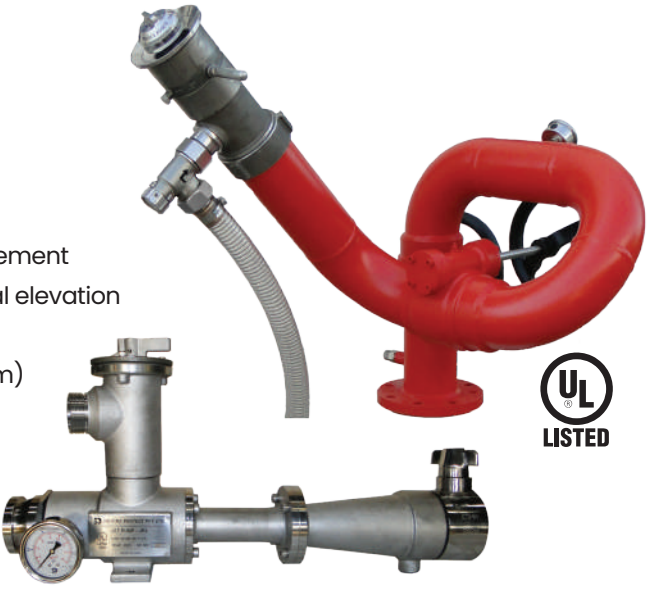


MONITOR M 341



- Size: 80 mm (3") waterway with flanged inlet of 80 or 100 mm (3" or 4") & outlet threaded to 3" BSP male
- Stainless Steel construction
- Easy deployment by one person
- Bronze swivel joint with double row of Stainless Steel ball bearing with grease fittings
- Maximum operating pressure 12 Bar (175 psi)

MONITOR VARUN 443

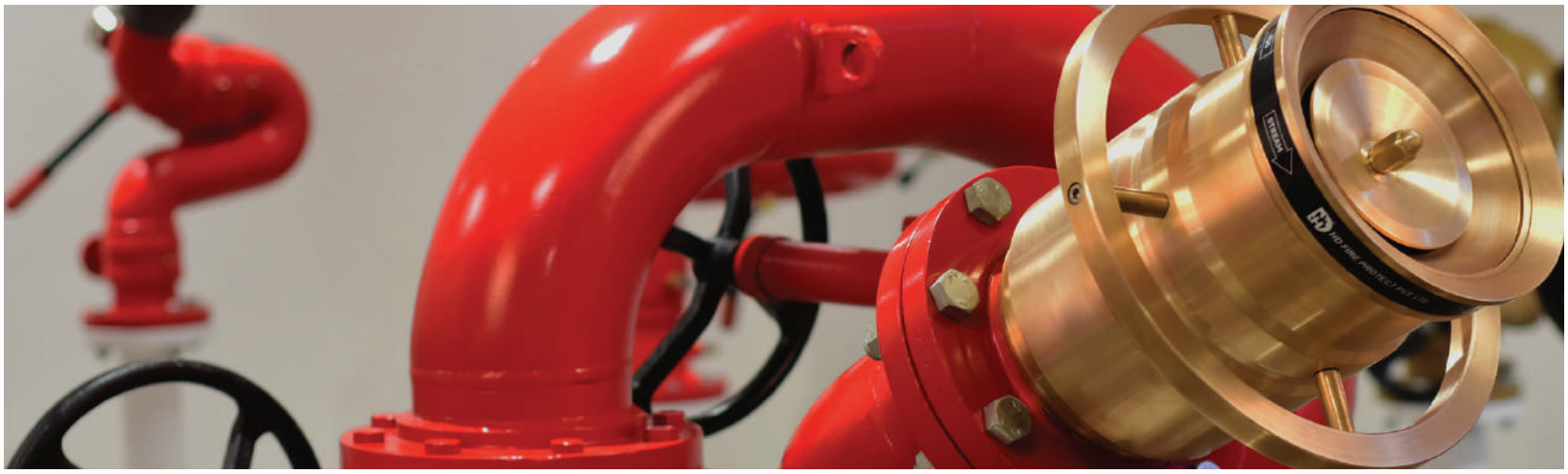


- Size: 100 or 150 mm (4" or 6") flanged inlet with 4" BSP male threaded outlet
- Low profile design
- Stainless Steel waterway
- Fully enclosed worm gear for horizontal and vertical movement
- 360° continuous horizontal rotation and +90°, -65° vertical elevation
- Maximum operating pressure 12 Bar (175 psi)
- Variable flow with nozzle model H4V (500 / 750 / 1000 gpm)
- Fixed flow with nozzle model H4 (500 / 750 / 1000 gpm)
- With and without Jet Ratio Controller



MONITOR VARUN 643

- Size: 150 (6") flanged inlet and outlet
- Stainless Steel waterway
- Maximum operating pressure: 12 Bar (175 psi)
- Variable/Fixed flow with nozzle model H6 (1000 / 1500 / 2000 gpm)
- With and without Jet Ratio Controller



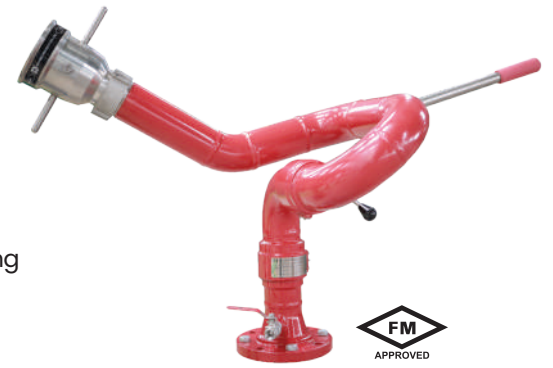


MONITOR M (ISI MARK)

- Size: 63 mm (2.5") with 1750 lpm at 7 kg/cm.sq
- Size: 80 mm (3") with 2580 lpm at 7 kg/cm.sq
- Size: 100 mm (4") with 3500 lpm at 7 kg/cm.sq
- Hot dip galvanized Carbon Steel waterway
- Maximum service pressure 12 Bar (175 psi)
- Monitor with fixed flow solid bore nozzle

MONITOR M 311

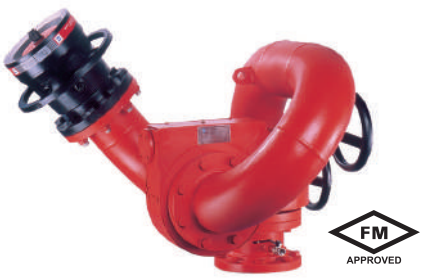
- Size: 80 mm (3") waterway with flanged inlet of 80 or 100 mm (3" or 4") & outlet threaded to 3" BSP male
- Hot-dip galvanized Carbon Steel waterway
- Easy deployment by one person
- Bronze swivel joint with double row of Stainless Steel ball bearing with grease fittings
- Maximum operating pressure 12 bar (175 psi)





MONITOR MG 413

- Size: 100 mm (4") with 100 or 150 mm (4" or 6") flanged inlet with 4" BSP male outlet
- Hot dip galvanized Carbon Steel 4" waterway and Bronze swivel joint
- Double row of Stainless Steel ball bearing with grease fittings
- Fully enclosed worm gear for horizontal and vertical movement
- Maximum operating pressure 12 Bar (175 psi)
- Flow up to 4750 lpm (1250 gpm) friction loss less than 10 psi



MONITOR VARUN 613

- Size: 150 mm (6") flanged inlet and outlet
- Low profile design
- Hot dip galvanized Carbon Steel waterway
- Bronze swivel joint with double row of Stainless Steel ball bearing
- Fully enclosed worm gear
- Maximum service pressure 12 Bar (175 psi)
- 360° continuous horizontal rotation and +90°, -65° vertical elevation
- Flow up to 12500 lpm (3300 gpm)

Monitor Nozzles

MASTER STREAM MONITOR NOZZLES

- Fixed flow gallonage heavy duty nozzles for use with monitors
- Excellent water stream used as water nozzle or non-aspirating foam nozzle
- Easy pattern change under flow condition, from straight stream to wide fog
- Field replaceable spinning teeth ring
- Hard anodized Aluminium, Bronze or Stainless Steel material



MODEL VARSHA - 30

- Factory set for fixed flow between 1500 & 2850 lpm (400 & 750 gpm) at 100 psi (6.86 Bar)
- 2.5" BSP swivel female inlet base



MODEL VARSHA - 40

- Factory set for fixed flow between1500 & 3030 lpm (400 & 800 gpm) at 100 psi (6.86 Bar)
- 3" BSP Swivel female inlet base



MODEL VARSHA - 40U

- Factory set for fixed flow of 500, 750, 1000 gpm 100 psi (6.86 Bar)
- 3" BSP Swivel female inlet base, 3" NH optional



MODEL VARSHA - 50

- Factory set for fixed flow between 3030 & 7575 lpm (800 & 2000 gpm) at 100 psi (6.86 Bar)
- 4" BSP swivel female inlet base



MODEL VARSHA - 60

- Factory set for fixed flow between 5680 & 12500 lpm (1500 & 3300 gpm) at 100 psi (6.86 Bar)
- 150 mm (6") flanged inlet

HYDRO-FOAM MONITOR NOZZLES

- Self-inducting and non-aspirating water-foam monitor nozzles
- 3% or 6% foam induction rate
- Combination of fog and straight stream without shut off
- Spinning teeth ring for full fog pattern
- Provided with clear PVC 3 mtrs. long suction hose with one end Stainless Steel dip tube
- Hard anodized Aluminium, Bronze or Stainless Steel material



MODEL VARSHA - HF40U

- Factory set for fixed flow of 500 or 750 gpm 100 psi (6.86 Bar)
- 3" BSP Swivel female inlet base, 3" NH optional



MODEL VARSHA - HF4V

- Fixed or Variable flow of 500, 750, 1000 gpm at 100 psi (6.86 Bar)
- Stainless Steel Construction
- 4" BSP swivel female inlet



MODEL VARSHA - HF50

- Factory set for single fixed flow between 3030 & 4750 lpm (800 & 1250 gpm) at 100 psi (6.86 Bar)
- 4" BSP swivel female inlet



MODEL VARSHA- HF6V

- Fixed or Variable flow of 1500, 1500, 2000 gpm at 100 psi (6.86 Bar)
- 150 mm (6") flanged inlet

Mobile Monitors



HD-CHETAK®

- Rugged 2 wheeled trailer with various capacity of storage tank
- Easy maneuvered by two persons or pulled behind light truck or jeep
- 80 or 100 mm (3″ or 4″) monitor mounted on tank
- Over run and manual brake
- Low profile design for safety and stability
- Trailer equipped with reflector
- Provision of manifold having 2.5″ or 4″ BSP coupling at rear side of trailer for water supply to monitor from hydrant network



TROLLEY MOUNTED MONITOR

- Easy maneuverability
- Trolley with two solid rubber wheels
- 63 or 75 (2.5″ or 3″) monitors can be mounted
- Water supply manifold with 2 or 4 inlet connections of 2.5″ BSP instantaneous coupling
- Epoxy painted



HD Inert Gas Suppression System





HD-INERTSYS

Inert Gas fire suppression system

- Designed for:- IG55 (Argon and Nitrogen), IG541 (Nitrogen IG100, Argon IG01 and Carbon dioxide), IG100 (Nitrogen) and IG01 (Argon)
- Cylinder Sizes: 80 and 140 litre
- Operating Pressure: 200 bar (2900 psi), 300 bar (4351 psi), depending on volume and concentration requirements
- Releasing Device: Manual, Pneumatic, Electro-Magnetic
- Diffuser nozzles: Brass construction
- System Design Calculations performed using VdS calculation software

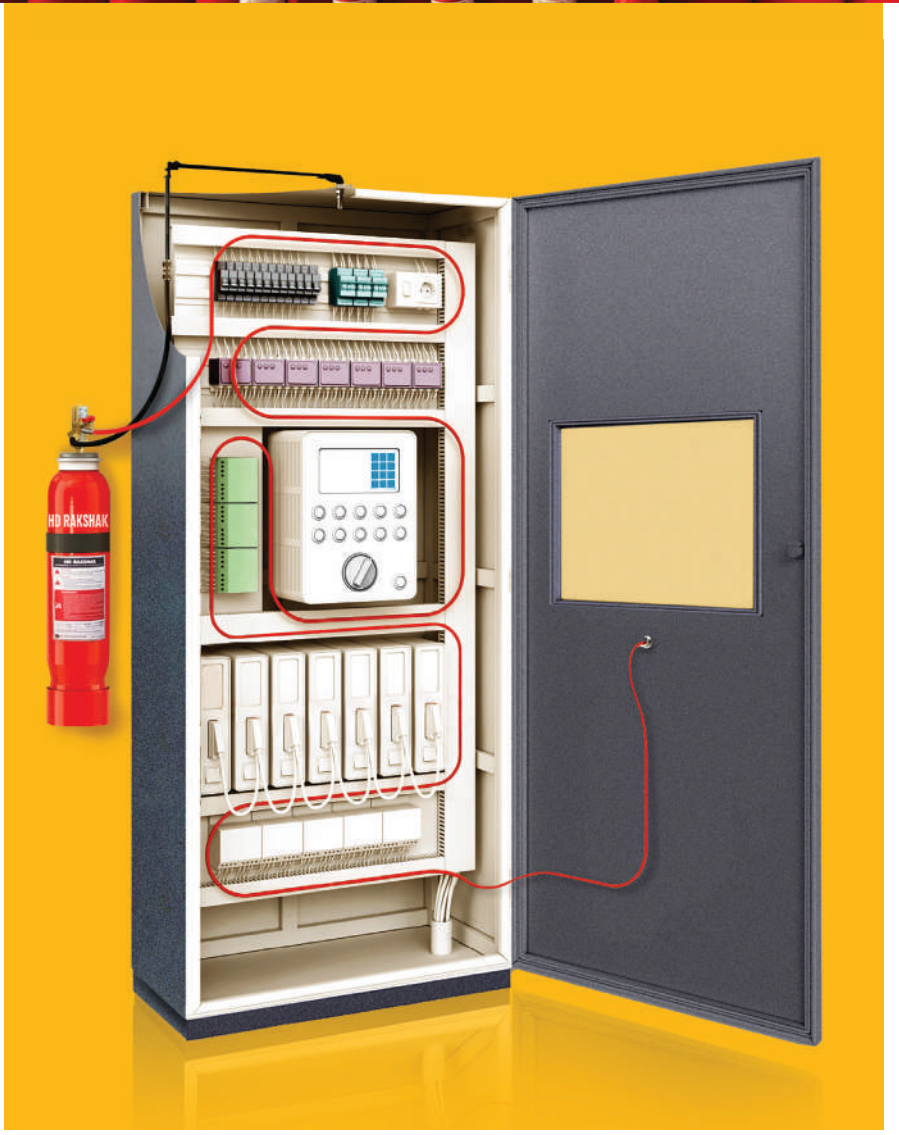
HD IHP CO2 System



HD-RAKSHAK IHP CO2 SYSTEM

CO2 fire suppression system

- Cylinder Sizes: 2Kg to 18 Kg
- Operating Pressure: 60 bar
- Automatic IHP Valve in Brass construction
- Diffuser nozzles: Brass/SS construction
- Fire detection using heat-sensing tubing (UL Listed)
- The fire detection tube on charged condition automatically fills CO2 from the cylinder. This is a unique feature where one does not require additional Nitrogen cylinder to charge the detection tube



Custom Engineered Skids

DUAL BLADDER TANK SKIDS



- Vertical or Horizontal Dual units skid mounted
- First Bladder tank is the operating tank and the second one is standby/reserve
- Carbon Steel or Stainless Steel Construction
- Tanks made to ASME Code Section VIII Div I
- ASME U Stamp available as an option

BLADDER TANK WITH MULTIPLE PROPORTIONERS



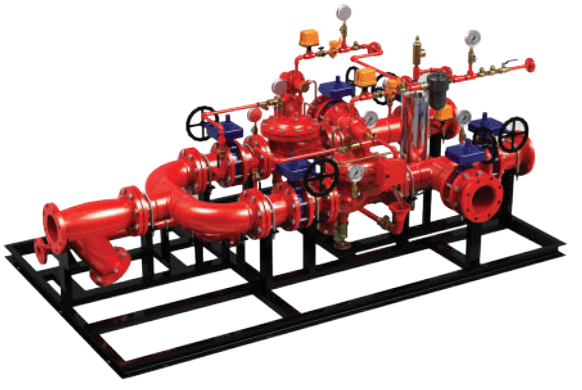
- Vertical or Horizontal bladder tanks
- Multiple lines connected for multiple locations
- Depending on flow, multiple lines can be operational at one time

FOAM SKIDS



- Custom Engineered Foam skid as per project specific requirements
- Foam concentrate tank, foam pump, balanced proportioner and control panel are skid mounted
- Completely pre-assembled and tested in factory

CUSTOM ENGINEERED DELUGE SKIDS



- Custom engineered deluge skid is designed and manufactured as per specific project requirements
- Skid can be open frame or also enclosed with insulation and temperature control function
- Can be manufactured in suitable material for corrosive and harsh environments
- Completely assembled and tested in factory

HD FIRE PROTECT

Protecting what matters most to you



SERVING

90

COUNTRIES
WORLDWIDE

Global Headquarters

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35+

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Manufacturing
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