

ACCESSORIES

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Accessories

Our range of **Fire Hydrants Systems** are standard fire detection system that can easily sense fire in the initial stage and can control it by automatically dialing the fire brigade station or other related authority and inform. To control the fire an optional automatic **Carbon Di-Oxide** discharger can also help. Fire Hydrant System is one of the most effective fire alarming systems.

The whole pipeline is kept under uninterrupted pressure with water. Whenever the hydrant valve is open, the pressure in the pipeline reduces drastically and jockey pump set which normally keeps the total system pressurized is unable to cope with the system demand which results in further fall in pressure. The further fall in pressure is perceived by the designated pressure switch and the main fire pump set starts automatically. Relying upon the type and sensitivity of the risk, diesel-engine powered fire pump set should also be installed having standby capacity of 100%. Some of the system components of fire.

It is a semi-automatic fire extinguishing system. A network of pipes is laid out counting upon the risk with hydrant valves placed at strategic places. The spacing or the distance between yard hydrants is guided by norms viz. Pipes, Special Nozzles, Fire Hoses, Monitors, Hose Boxes, Hose Reel Drums etc.

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Hydrant Valves



Single Headed Oblique Type Gun Metal Fire Hydrant Valve 2.5" (63mm), 75mm N.B. Flanged inlet, with 63mm Female inst. Outlet with Blank Cap and Chain as per IS:5290 with ISI mark (Flange O.D 200mm, PCD 160mm, 4 nos X 19mm dia holes) (Also available in Stainless Steel)

* 63mm GM Single Headed Hydrant Valve – Commercial (Flange O.D 185mm, ID 63mm, PCD 145mm)

* Also available in 38mm, 50mm – Standard Quality (GM)



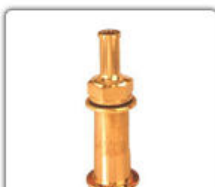
Double Headed Gun Metal Hydrant Valve 2.5" (63mm) with two individually controlled 63mm Female Inst. outlets, with 100 mm N.B. Flanged Inlet,

complete with male Blank Caps and Chains as per IS:5290 (Flange OD 220 mm, PCD 180mm, 8 nos X 19mm dia holes)

Double Headed Hydrant Valve – Commercial (Flange OD 220mm, ID 100mm, PCD 180mm)

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Branches & Nozzles



Short Branch Pipe Gun Metal 63mm with Detachable Hexagonal Nozzle as per IS:903 with ISI Mark (Also available in Stainless Steel or Aluminium or Copper)

Also available in 38mm, 50mm – Standard Quality – GM, Aluminium



Water/Foam Nozzle – produce secondary aspirated (sometimes non aspirated) foam which have expansion ratio of 1:3 to 1:4 with Female BSP Thread Inlet.

MONITOR NB	FLOW lpm	RANGE* (Mtrs)	
		Water	Foam
63	1880	5	44
75	2820	62	51
100	3760	72	61
150	7520	87	73



FAST ACTION NOZZLE – Dual pressure fire fighting nozzle, lightweight, made of aluminium extrusion, hand controlled, anodized for resistant of corrosion and wear, having arrangement for detent flows, to shut off pressure assistance flush without shutting down, slide type valve for turbulence free flow moulded rubber, teeth for full fill, power for gasket gripper inlet screen, pistol type grip for holding, flow straightness for quality jet stream and knob provision for switching from standard 100 PSI to emergency low pressure operation, suitable for flow of 900 lpm at 7 kg/cm² with inlet of 63mm size. Weight 3.2 kg approx.

AQUAJET MULTIPUPOSE NOZZLE – pistol-grip fire fighting, hand-held nozzle made out of light weight alu. Alloy duly hard-anodised with solid bore tip and additional advantage of fog pattern at the same time. Nozzle 2 1/2" (M) inst. / 1 1/2" (F) thread / 2 1/2" (F) thread. Approx. weight 2.25 kg.



SUPERFIRE MULTI GALLONAGE NOZZLE / UNILITE –Fire fighting nozzle, made of extruded al. Alloy hard anodized for resistance to corrosion and wear. Select 'O' metric mode provides variable flow rates at 7 kg/cm², 360-475-600-750 and 900 lpm and flush without shutting down. Spinning teeth ring form water curtain for cooling and operator's protection from heat. Ball valve operated flow control lever for shutting off. Inlet with 63mm male inlet conforming to IS:903. Piston grip for greater control



NUELITE NOZZLE – Professional fire fighting nozzle made of die-cast, al. alloy, having arrangement for constant flow at straight jet/wide angle fog and complete shut-off, with a pistol-grip, ball type shut-off valve with adjustable seat & suitable for flow of 400 lpm at 7 kg/cm² with inlet of 63mm size conforming to IS:903



MEDIUM VELOCITY SPRAY NOZZLE – Made of Brass or SS with 1/2" BSPT end connections.
K-factor: Metric - 22,30,35,41,51,64,79, 91 & 102
Spray angle - 65°, 80°, 90°, 100°, 110°, 120° & 140°

HIGH VELOCITY SPRAY NOZZLE – Made of Brass with 3/4" BSPT end connections.
K-factor & Spray angle: Metric - K40:90° K50:75° K60:100° K70:90°



Fog Nozzle (G.M.) having arrangement of jet, high pressure fog and complete shut off with 63mm male inst. Inlet, duly chromplated as per IS: 952.

Also available in 38mm



Triple Purpose Nozzle (G.M.) (Universal branch pipe) having arrangement of jet, fine spray and shutoff with 63mm male inst. Inlet, duly chromplated as per IS: 2871

Also available in 38mm



London Pattern (Hand Controlled) Nozzle (G.M.) having arrangement of Jet, Spray, Adjustable water curtain and shutoff with 63mm male inst. Inlet, duly chromplated.

Revolving Nozzle (G.M.) with 63mm male inst. Inlet duly chromplated as per IS:906 (Flange Connection also available)



Multi Purpose Spray Nozzle (G.M) for Water / Foam Spray having arrangement of Jet, fine spray, fog, complete shutoff with adjustable flow output with 63mm male inst. Inlet duly chromplated. (ELKHART DESIGN)



Jumbo / Mayura Curtain Nozzle capable of giving 180 deg. Curtain spray to 20' to 25' feet height with 63mm G.M. male inst. Inlet.



Diffuser Nozzle (G.M.) Navy Type Nozzle with 63mm Male or Female inlets having arrangement of Jet, spray and shutoff

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Delivery Coupling & Hose



C.P. (Controlled Percolating) HOSE - Cotton/Synthetic Fibre, Circularly Woven Jacketted Controlled Percolating Fire Hose, treated against rot with mystox, 36 kg/cm² burst pressure, 22kg/cm² proof pressure as per IS:8423 with ISI mark.

Sizes 50mm (2"), 63mm (2.5")



RRL (Reinforced Rubberlined) Fire Hose Type A - Cotton Synthetic Fibre, circularly Woven Jacketted Rubberized Fabric RRL Fire Hose, treated against rot with mystox 36 Kg/cm² burst pressure, 22kg/cm² proof pressure as per IS:636:88 type A with ISI Mark.

Sizes 38mm (1.5") , 50mm (2") , 63mm (2.5") , 70mm (2. ¾ ")



RRL Fire Hose Type A - Non-percolating Fire Hose with outer jacket made from 100% high tenacity synthetic yarn, lined with seamless EPDM having 38kg/cm² Burst pressure, 22 Kg/Cm² Proof Pressure and 18KG/cm² working pressure as per IS:636/1988 Type 'A' ISI mark. (MAGMEX Brand)

Sizes 38mm (1.5"),50mm(2"),63mm(2.5"),70mm(2. ¾ ")



RRL (Reinforced Rubberlined) EXTOCOAT - Fire Hose with outer special Elastomeric coating, circular woven Jacketted, 100% High tenacity Synthetic Yarn inert against mildew and rot lined with a special compound of synthetic rubber with 40 Kg/cm² burst pressure, 22kg/cm² proof pressure as per IS:636:88 Type A with ISI Mark.

Sizes 38mm (1.5") 50mm(2") 63mm(2.5") 70mm (2. ¾ ")



Sizes 38mm (1.5"), 50mm (2"), 63mm (2.5"), 70mm (2.75")

RRL (Reinforced Rubberlined) Fire Hose Type B Non Percolating Fire Hose
Completely composite construction circularly woven 3 layered synthetic jacketed fully encapsulated with a specially formulated elastomer, resistant against grease, oils, acids, ozone, fungus, alkalies, heat and other chemicals with outer design to facilitate a good grip, completely flexible and lightweight, no maintenance with 42Kg/cm² burst pressure, 25kg/cm² proof pressure, 18kg/cm² working pressure as per IS:636:88 type B with ISI mark.

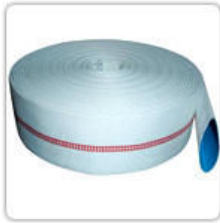


Sizes 38mm (1.5"), 50mm (2"), 63mm (2.5"), 70mm (2.75")



High Pressure Fire Fighting Hose seamlessly woven with high grade synthetic yarns with EPDM rubber lining to ensure high protection against ozone and rot with burst pressure of 50kg/cm² & proof pressure of 36 kg/cm² as per IS:14933-2001 Type 'A' with ISI Mark (INFERMEX Brand)

Sizes 38mm (1.5"), 50mm (2"), 63mm (2.5"), 70mm (2.75")



High Pressure Fire Fighting Hose with special inert compound for higher degree of protection against corrosive chemicals, heat and ozone suitable for high pressure applications with burst pressure 50 kg/cm² as per IS:14933-2001 Type-B with ISI Mark. (C-JET Brand)

Sizes 38mm (1.5"), 50mm (2"), 63mm (2.5"), 70mm (2.75")



Delivery Hose coupling male & female Gun Metal 2.5"(63mm), inst. type 63mm X 63mm size as per IS: 903 with ISI mark. (Also available in Stainless Steel or Aluminium or Copper)

Also available in 38mm, 50mm – Standard Quality – GM, Aluminium



Suction Coupling Gunmetal 4" Male & Female Round Threaded as per IS:902. (Available in 3" also)

Also available in standard quality



Rubber Suction Hose - blend of natural / synthetic rubber compound with wire embedded between the reinforcement with corrugated outer layer as per IS:3549 with ISI Mark. (Type 1: WP-7 kg/cm², Type 2: WP-10kg/cm²)

Size: 3" or 4" or 6"



Suction Strainer Gunmetal 4" having Female Round Thread as per IS:907 (Also available in 3")

Also available in standard quality

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Hydrant Accessories



Single Hose Box - Wall mounting type in 600mm X 400mm X 250mm size to accommodate 1 lengths of 7.5 mtr. or 15 mtr. or 30 mtr. hoses and a branch pipe with glass covered single door with lock and key arrangements.

Available in MS or FRP



Double Hose Box - Wall mounting type in 750mm X 600mm X 250mm size to accommodate 2 lengths of 7.5 mtr. or 15 mtr. hoses and a branch pipe with glass covered double door with lock and key arrangements

Available in MS or FRP For 30mtr. – 2 Lengths (Size 1200mm x 625mm x 250mm)



Hose Reel Drum, swinging wall mounting type made of mild steel sheet to accommodate 30mtr or 36.5mtr of 19mm dia Rubber Hose with nozzle along with suitable bracket for fixing on the wall.

Nozzle – ABS or Gunmetal or Aluminium Available with 24mm Hose also.



Rubber Hose for Hose Reel Drum – Made of natural / synthetic rubber with plain or corrugated finish as per IS:444 with ISI Mark (Type 1: WP-6 Kgf/cm, Type 2: WP-10 Kgf/cm)

Size: 19mm or 24mm O.D. (Also available in Commercial Quality Double Braided)



Air Release Valve - GM 25mm Male threaded air release valve.

Monitors



Superjet Water Monitor – Stand Post Type made out of IS:1239 Seamless Steel tubes, Hot dip galvanized, flanged inlet, G.M. Ball bearings Swivel joints with brass locking arrangements, permitting 360 deg. Horizontal, 80-45 deg. Vertical traverse, with Aluminium Alloy Nozzle with male threaded inlet as per IS:8442 with ISI Mark. (Available in GM Nozzle or with 63mm G.M. Female inst. Outlet)

MODEL	OPERATING PRESSURE RANGE Kg/cm ²	INLET FLANGE NB	PERFORMANCE* (at 7 Kg/cm ² pressure)	
			FLOW lpm	RANGE Mtrs
63MM	6 - 12	75 OR 100	1750	55
75MM	6 - 12	100	2580	62
100MM	7 - 12	150	3750	67



Superjet Water/Foam Monitor – Stand Post Type made out of IS:1239 Seamless Steel tubes, Hot dip galvanized, flanged inlet, G.M. Ball bearings Swivel joints with brass locking arrangements, permitting 360 deg. Horizontal, 80-45 deg. Vertical traverse, with Aluminium Alloy Foam Nozzle with pickup tube as per IS:8442 with ISI Mark.

MODEL	OPERATING PRESSURE RANGE Kg/cm ²	INLET FLANGE NB	PERFORMANCE* (at 7 Kg/cm ² pressure)	
			FLOW lpm	RANGE Mtrs
63MM	7	75	1750	50
75MM	7	100	2580	60
100MM	7	150	3500	64



GROUND MONITOR – made of light weight (18kg) aluminium alloy with nozzle for waterjet and universal nozzle for waterjet, fog, foam. Universal joint for free vertical and horizontal rotations fitted with three non return valve inlets.

Foam Equipments



Foam Making Branch Pipe FB5X – Made from Aluminium Alloy with 63mm G.M. Male Inst. Inlet with Pickup tube – 225 LPM



Foam Making Branch Pipe FB2 – Made from Aluminium Alloy with 63mm G.M. Male Inst. Inlet with Pickup tube.
FB2 – 225 LPM, FB10 – 450 LPM, FB20 – 900 LPM



Portable Inline Inductors – Made from Aluminium Alloy with 63MM G.M. Male Inst. Inlet in one hand and Female Inst. Outlet in other hand with Pick-up tube.

Model	Nominal Flow lpm	Recommended Operating	Lenah tmm	Weight Kas



	(at 7 bars*)	Pressure bars		
ILI 225	225	5 - 10	440	5.5
ILI 450	450	5 - 10	440	5.5

Foam Making Branch Pipe FB2X – Made from Aluminium Alloy with 63mm G.M. Male Inst. Inlet



Medium Expansion Foam Branches – To produce stable, superior quality medium expansion foam with 63mm G.M. male inst. Inlet. **(Made of SS 304 or Aluminium Barrel)**



Model	Range Mtrs (at 3.5 bars inlet pressure)	Nominal Expansion	Lenghtmm	WeightKgs
MX 225	06	1:40	530	5.0
MX 450	08	1:40	615	6.2

High Expansion Foam Generators – To Generate large amount of HX Foam with 63mm G.M. inlet. **(Made of SS 304 or Aluminium body/shell)**



Model	Output M3/min (at inlet pressure)	Nominal Expansion	Approx Height mm	Approx WeightKgs
HX	47 (at 3.5 bars)	1:270	610	17.0
Mini Super	60 (at 5.5 bars)	1:310		

Mobile Foam Trolley Unit – Portable Foam Mobile Trolley fitted with inline inductor and foam making branch pipe (without Hose & AFFF Liquid). Body is made of FRP or MS or SS
Capacity: 100ltrs or 200ltrs



Aqueous Film Forming Foam – Synthetic based foam compound mixed with addition of fluorodensides processing the property to create the film of water solutions that floats on top of non-polar flammable liquids as per IS:4989 PART-2 with ISI Mark (Available in: 3% or 6% Foam Compound in 20 ltrs HDPE Can)



Protein Foam – Based on Hydrolised Protein with added foam stabilizers and metal salts used to produce low expansion foam and reliable agent for protection of hazardous non-polar flammable liquids as per IS:4989 PART-1 with ISI Mark (Available in: 20 ltrs HDPE Can)

with ISI MARK. (Available in: 20 ltrs HDPE Can)



Fluoroprotein Foam – Specially formulated by combining selected fluorotensides with protein base and it produces aqueous film forming characteristics as per IS:4989 PART-3 with ISI Mark (Available in: 20 ltrs HDPE Can)

Alcohol / Polar Solvent Resistant Foam – Synthetic polyvalent foam forming liquid, Pseudo-plastic consisting of surface active substances and polymer additives used for rapid action on surface fires with resistance to contamination of Hydrocarbons and to dehydration of Polar solvents (Available in: 20 ltrs HDPE Can)

High Expansion Foam Compound – A special composition of surfactants solubilizers and antifreeze agent designed to produce foam with low drainage time, superior fluidity and fire resistance. (Available in: 20 ltrs HDPE Can)

Hazmat Foam – For controlling hazardous vapours and spills. (Available in: 20 ltrs HDPE Can)

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Fitting & Adapters

Collecting Breech (GM) having 1 no. 63mm Female Inst. Inlet and 2 nos. 63mm Male Inst. outlet. As per IS:905



Dividing Breech (G.M.) having 1 no. of 63mm Male Inst. Inlet & 2 nos. 63mm Female Inst. Outlet as per IS:905



Controlled Dividing Breech (G.M) with Control Valve having 1 no. 63mm Male Inst. Inlet & 2 nos. 63mm Female Inst. Outlet with control.



Double Male Adaptor (G.M) Inst. of 63mm as per IS



Double Female Adaptor (G.M) Inst. of 63mm as per IS



2 way Fire Brigade Inlet Cast Iron (C.I.) having 2 nos. of 63mm Male Inst. NRV Inlet with flange.



3 way Fire Brigade Inlet Cast Iron (C.I.) having 3 nos. 63mm Male Inst. NRV Inlet with flange.



4 way Fire Brigade Inlet Cast Iron (C.I.) having 4 nos. 63mm Male Inst. NRV Inlet with flange.

Non Return Valve - Gunmetal with 63mm male inst.



ROSETTE PLATE – Single leaf rosette plate either in chrome plate or White finish (Also available in Stainless Steel)

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