



enter the world of fire safety equipments...

A SAFER WORLD



IS 5290



IS 903



IS 636



IS 8423



IS 12585



IS 15683



IS 884



IS 444



GeM
Government
e Marketplace





product family



we pledge to protect the nation against any fire with one of our biggest range of **ESSEL** fire fighting equipments. A SAFER WORLD



Administration Office & Manufacturing Unit - I

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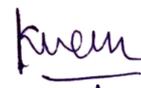
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QUALITY POLICY

“ESSEL VALVES PRIVATE LIMITED
HAS AIM TO SATISFY IT’S CUSTOMERS
BY MANUFACTURING AND SUPPLYING
OF ALL PRODUCTS OF COMMITTED QUALITY
AT COMPETITIVE PRICES,
WITH PROMPT SERVICES”

Managing Director



KALPESH M. MEHTA

Place: RAJKOT, GUJARAT.
Date: 01.04.21

ESSEL VALVES PVT. LTD. Manufactures a vast range of products. There is more to this statement than meets the eye. True, we have evolved as a manufacturer of repute over the years and have constantly added new products to our range, which has resulted in a vast range. But our basic intention was never to be a 'Jack of all and master of none'. We have always kept our design & development on their toes, even when a product has been positively accepted in the market, we have made changes for the better instead of resting on our laurels.

All the time of inception, our aim was in the field of Landing Valves, Hose Coupling, Hose pipe etc. Every effort was made to adhere to the relevant National and International Standards.

The company emphasize on Quality Assurance and Design Parameter. It is proud of the company to set up a Computer Aided Design (CAD) System. The Company has on its rolls well experienced and Qualified Engineers heading the Departments of Design, Quality Assurance & Production with dedicated team of Technical Staff working under them.



Mission Statement

To promptly and professionally serve the needs of our community with pride, dedication, and excellence never failing to deliver quality emergency life safety services with the highest level of integrity, commitment, teamwork, and community engagement.



Vision Statement

We are a responsive and progressive part of the community we serve. We commit to excellence and professional accountability through effective training, technology and adapting to the changing needs of our community. We seek to remain respected by our citizens for anticipating and responding to their ever-changing needs. We embrace new technologies and techniques, focusing on training and education to provide the highest level of customer services and satisfaction in a professional and caring manner.



Organisational Values

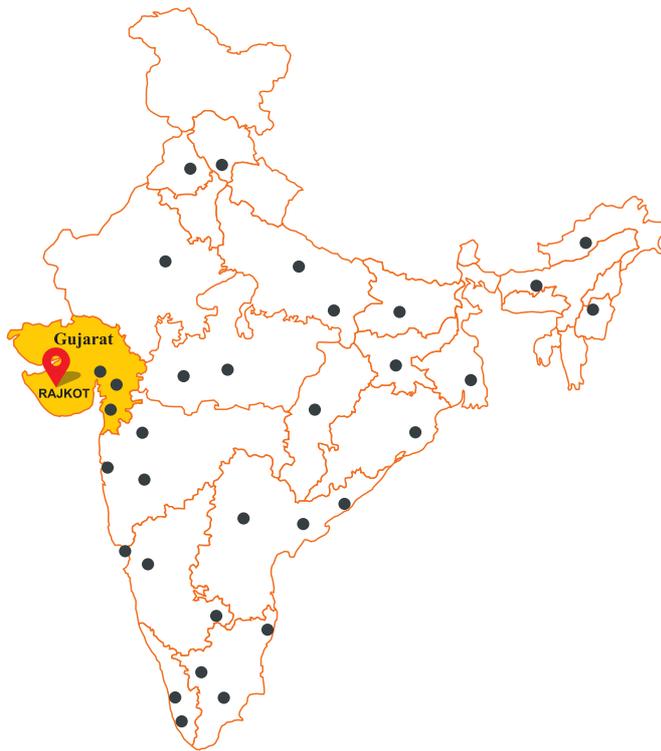
We value the lives and property that we are entrusted to protect throughout our community. We value character, integrity, and honesty and require both personal and organizational accountability. We value reliability, each Member's commitment to excellence in training and performance, and a passion for community service. We value leadership, teamwork, communication, innovation, collaboration, and initiative. We value diversity, are respectful, courteous and inclusive of the talents and needs of all while focusing on the social good we do as an organization and as individuals. We value tradition and the founding principles of loyalty and pride as they reflect the progressive heritage of our Department. We recognize and embrace the honor of carrying forward the legacy of those who served before us.



Registered Office & Works:

■ **ESSEL VALVES PVT. LTD.**

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Near Kadwani Forge, Kishan Road,
Kalawad Road, Rajkot-360 021, Gujarat, India.
t/f: +91 02827 287097 m: 98250 65436, 84013 95121
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Dealers & Distributors

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- Kolkata
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- Madurai
- Mumbai
- Nashik
- Panji
- Patna
- Pune
- Raipur
- Ranchi
- Shimla
- Surat
- Tiruvananthapuram
- Vijaywada
- Visakhapatanam

Years of Establishment: Incorporated as **ESSEL VALVES PVT. LTD.** in 2007

Total Capital Investment: Rs. 450 LACS (US \$ 6,03,000)

Total area of works: 36000 Sq. Ft. - **Total Number of Production Units:** 3 units

Registration Number:

CORPORATE IDENTITY NUMBER	: U 29100GJ2010PTC060344
GST No.	: 24AACCE3664M1ZH Date: 01.07.2017
S.S.I. REGISTRATION NO.	: 240091105419 Date 13.9.2010
N.S.I.C. REGISTRATION NO.	: NSIC-GP-RS-PMT-GUJ-E073
INCOME TAX NO.	: AACCE3664M
MSME UAM No.	: GJ20B0088722
UDYAM REGISTRATION No.	: UDYAM-GJ-20-0032538

Fire Hydrant Unit

ESSEL VALVES PVT. LTD. has its own foundries. A brief details for the various units are as under;

■ Materials (ASTM GRADES)

Gunmetal
LTB2

Aluminum
LM6

Stainless Steel
(High and Low temp. service)
CF8, CF8M, CF3, CF3M, CF8C.

■ Production Capacity:

Sand Cast Foundry:
270 Tons per annum

Steel Foundry:
180 Tons per annum

Quality assurance is ensured by a written assurance program that include the following testing and inspection procedure:

Chemicals - by a spectra meter

Mechanical - by UTM

Materials - Gunmetal, Brass, Stainless Steel, Aluminum, Cast Iron

a) Foundry for non ferrous materials such as Gun Metal, 85:5:5:5, NAB - II, AB-II, LTB-II, etc.

b) Cupola furnace in 15" & 18" size for cast iron with capacity of tons per annum.

Fire Hose Pipe Unit

Commencement of Hose Pipe Production Unit: **01.03.2013**

■ Raw Materials:

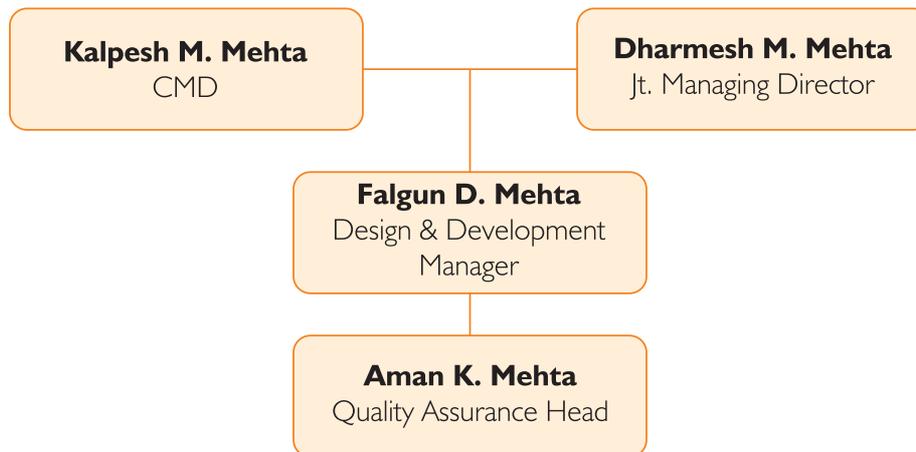
- Nylon
- Polyester

■ Standards of manufacturing:

- 1. **IS 636** (TYPE I):
Rubber reinforced lining (RRL) Non Percolating Hose
- 2. **IS 8423**:
Controlled percolating (CP) Hose

Quality assurance:

ESSEL Hose Pipe possesses for its precise weaving, deepness of texture, usage of heavy graded raw materials and advanced development activities with fully Equipped Lab Facilities ensuring the high quality of the products. The team of experienced personnel, highly qualified engineers and representatives, and well trained labor force has enabled the company to achieve optimal capacity utilisation within a record time. Essel Valves Private Limited is fully committed for its product development & has a well established, 8+ years old set up QMS conforming to ISO 9001:2015 for the most precise production quality for Fire Fighting Hose pipes.



Brief Bio-Data of Directors:

- Person: **Mr. Kalpesh M. Mehta**
Position: CMD
Age: 50 years

After the graduation Mr. Kalpesh M. Mehta started company and has taken responsibility of the new product development, design and expansion of production facilities. He is the principal guiding force of the technical side of the company. He became Managing Director of the company.

- Person: **Mr. Dharmesh M. Mehta**
Position: Jt. Managing Director
Age: 51 years

Mr. Dharmesh M. Mehta is mainly responsible for our Production Activity, Simultaneously he gained the experience of production management and financial control. He is responsible for the growth of the company through his management and strategies.

Brief Bio-Data of Key Persons:

- Person: **Mr. Falgun D. Mehta**
Position: Design & Development Manager
Age: 24 years
Qualification: MBA

Since 2018 Mr. Falgun D. Mehta has been working in Design Department of industrial valve in various reputed organisations. With his ability and caliber he has executed several import substitutes designs of products. Through his experience he has achieved a higher level in the organisation and heads a well equipped modern design office with AutoCAD program and electronic plotter facilities.

- Person: **Mr. Aman K. Mehta**
Position: Position Quality Assurance Head
Age: 23 years
Qualification: MBA in Global Business

Since the completion of education from Coventry University, London (UK), Mr. Aman K. Mehta has been working in valve industries and has an experience in production, planning, inventory and inspection department. With his strict Quality Assurance measure adherence the Quality Assurance Department has gained and maintained the quality.



Single Hydrant / Landing Valve



Type-A 

Product Code	Description	Inlet Sizes	Outlets	Material of Construction
EV-O9	1 1/2" (38mm) Size	Flanged inlet as per ANSI Flanged inlet as per PNI6	1 1/2" Female Instantaneous	Gun Metal and Stainless Steel
	2 1/2" (63mm) Size	Flanged inlet as per ANSI Flanged inlet as per PNI6	2 1/2" Female Instantaneous	

Straight Type Landing Valve



Product Code	Description	Inlet Sizes	Outlets	Material of Construction
EV-09-ST	2 1/2" (63mm) Size	Flanged Inlet as per ANSI Flanged Inlet as per PNI6	2 1/2" Female Instantaneous	Gun Metal

Right Angle Type Landing Valve



Product Code	Description	Inlet Sizes	Outlets	Material of Construction
EV-09-RAT	2 1/2" (63mm) Size	Flanged Inlet as per ANSI Flanged Inlet as per PNI6	2 1/2" Female Instantaneous	Gun Metal

Double Hydrant / Landing Valve



Type-B 

Product Code	Description	Inlet Sizes	Outlets	Material of Construction
EV-18	2 1/2" (63mm) Size	Flanged inlet as per ANSI Flanged inlet as per PNI6	2 1/2" Female Instantaneous	Gun Metal and Stainless Steel



Short Branch Pipe with Nozzle



Product Code	Description	Type	Operating Pressure	Material of Construction
EV-27-SB	1 1/2" (38mm) Size As per BS:336 & IS:903	Solid Jet Nozzle	150 PSI Max. 10.5 Kg./cm ²	Gun Metal, Stainless Steel Brass & Aluminum Alloy Finish: Natural Polished
	2 1/2" (63mm) Size			

Triple Purpose Nozzle / Universal Branch Pipe



Product Code	Description	Type	Operating Pressure	Material of Construction
EV-27-TP	2 1/2" (63mm) Size Male Instantaneous	As per IS: 2871 Jet / Spray / Shutoff	150 PSI Max. 10.5 Kg./cm ²	Gun Metal, Stainless Steel Brass & Aluminum Alloy Finish: Natural Polished / Chrome Plated

Diffuser Nozzle



Product Code	Description	Type	Operating Pressure	Material of Construction
EV-27-D	2 1/2" (63mm) Size Male Instantaneous	Jet / Spray / Shutoff	150 PSI Max. 10.5 Kg./cm ²	Gun Metal, Stainless Steel Brass & Aluminum Alloy Finish: Natural Polished



Constant Flow Nozzle



Product Code	Description	Inlet Pressure Kg/cm ²	Flow (Water) LPM	Range Mtrs.	Material of Construction
EV-27-CF	2 1/2" (63mm) Size	6.0	400	30	Aluminum Alloy Hard Anodized
		7.0	500	34	
		8.0	600	36	



Fog Nozzle having arrangement of jet, high pressure fog and complete shut off with 63mm male inst. Inlet, duly chrome plated as per IS: 952, MOC: Gunmetal.



London Pattern (Hand Controlled) Nozzle having arrangement of Jet, Spray, Adjustable water curtain and shutoff with 63mm male inst. Inlet, duly chrome plated, MOC: Gunmetal.



Revolving Nozzle with 63mm male inst. Inlet duly chrome plated as per IS:906, MOC: Gunmetal.



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



Hose Coupling



Product Code	Description	Working Pressure	Test Pressure	Material of Construction	
EV-36	1 1/2" (38mm) Size	As per BS:336 & IS:903	150 PSI 10.5 Kg./cm ²	325 PSI 22.5 Kg./cm ²	Gun Metal, Stainless Steel Brass & Aluminum Alloy
	2 1/2" (63mm) Size				
	3" (70mm) Size				

Suction Coupling



Product Code	Description	Working Pressure	Test Pressure	Material of Construction	
EV-36-SU	3" (75mm) Size	As per BS:336 & IS:902	150 PSI 10.5 Kg./cm ²	325 PSI 22.5 Kg./cm ²	Gun Metal, Stainless Steel Brass & Aluminum Alloy
	4" (100mm) Size				
	5 1/2" (137.5mm) Size				

Storz Coupling



Product Code	Description	Working Pressure	Test Pressure	Material of Construction
EV-36-ST	1 1/2" (38mm) Size	150 PSI	325 PSI	Gun Metal, Aluminum Alloy
	2 1/2" (63mm) Size			

Reinforced Rubber Lined (RRL) Hose type 1



Type-1

Bearing IS 636: 88 Type 1 mark
Confirming to BS 6391 type 1

Jacket made of 100% polyester for extra strength, Special quality black EPDM internal rubber lining with stands and heat polluted water. Heat and abrasion resistant. **Standard Length:** 7.5 meters | 15 meters | 22.5 meters | 30 meters

Product Code	Description	Working Pressure PSI/Kg/Cm ²	Bursting Pressure PSI/Kg/Cm ²
EV-RRL-38	1 1/2"	205/14	710/50
EV-RRL-50	2"	205/14	710/50
EV-RRL-63	2 1/2"	175/12	640/45
EV-RRL-70	3"	145/10	500/35

Standard Color White

Reinforced Rubber Lined (RRL) Hose type 3



Type-3

Bearing IS 636: 88 Type 3 mark
Confirming to BS 6391 type 3

Warp made of high tenacity fibers, Weft made of multi-ply high tenacity fibers Synthetic rubber compound specially formulated for abrasion and chemical resistance, flexibility and protection against ageing.

Rubber Lining: High quality Synthetic nitrile EPDM rubber lining over high tenacity synthetic yarn polymer. It is resistant against grease, oil, acids, ozone, fungus, alkalis, heat & chemicals.

Standard Length: 7.5 meters | 15 meters | 22.5 meters | 30 meters

Product Code	Description	Working Pressure PSI/Kg/Cm ²	Bursting Pressure PSI/Kg/Cm ²
EV-RRL3-38	1 1/2"	245/17	710/50
EV-RRL3-50	2"	245/17	710/50
EV-RRL3-63	2 1/2"	245/17	710/50
EV-RRL3-70	3"	217/15	575/40

Standard Color Reddish brown

Controlled Percolating (CP) Hose



Bearing IS 8423: 94 mark

Incorporates controlled percolating system, combining advantages of low friction, high strength, lightweight and flexibility of rubber lined hose and the heat resistant quality of flax hose. Jacket made from synthetic yarn for extra strength. Ideal for forestry and industrial fires. **Standard Length:** 7.5mtr | 15mtr | 22.5mtr | 30 mtr.

Product Code	Description	Working Pressure PSI/Kg/Cm ²	Bursting Pressure PSI/Kg/Cm ²
EV-CP-38	1 1/2"	175/12	570/40
EV-CP-50	2"	175/12	570/40
EV-CP-63	2 1/2"	175/12	570/40
EV-CP-70	3"	175/12	570/40



Swinging Vertical Hose Reel Drum



Item Description: Swinging 180 degree type with 180 degrees outlet movement shall provide a good range jet at the specified pressure for effective fire fighting.

Inlet size: 20mm/25mm (3/4" / 1" BSP Thread Size)

Conforming Specification : IS 884

Material of Construction :

Hub Sides & Wall Bracket	Construction from M.S. Sheet IS: 543 / Aluminium LM6
Swivel Joint	LTB-2 of IS: 318
Pipe with Fitting	Steel of IS: 1239 Part I
Hose Reel Tubing	Thermoplastic Hose (IS: 12585) Rubber Hose (IS: 444)

Hydrostatic Test: Tested at 21 Kg/cm²

Range & Water Flow rate test at 7 KgF/cm²

(A) Discharge : 24 LPM (B) Range (Jet Length) : 6 mtrs (min)



Horizontal Hose Reel Drum



Item Description: Fixed Wall Mounted with outlet connection moved in left and right direction.

Inlet size: 20mm/25mm (3/4" / 1" BSP Thread Size)

Conforming Specification : IS 884

Material of Construction :

Hub Sides & Wall Bracket	Construction from M.S. Sheet IS: 543 / Aluminium LM6
Swivel Joint	LTB-2 of IS: 318
Pipe with Fitting	Steel of IS: 1239 Part I
Hose Reel Tubing	Thermoplastic Hose (IS: 12585) Rubber Hose (IS: 444)

Hydrostatic Test: Tested at 21 Kg/cm²

Range & Water Flow rate test at 7 KgF/cm²

(A) Discharge : 24 LPM (B) Range (Jet Length) : 6 mtrs (min)

Hose Reel Pipe



Material: Thermoplastic Hybrid Compound / High Grade Rubber

Workability: Can work at high pressures as lab tested on calibrated machines.

Type	Rubber (IS:444)	Thermoplastic (IS:12585)
Diameter	20 mm	25 mm Dia
Operating Pressure Range	10 Kg/cm ²	
Bursting Pressure	32.5 Kg/cm ²	

Hose Reel Shut Off Nozzle



Material: ABS / Gunmetal / SS 304

Size: 20 mm / 25mm



Two way Inlet Breaching



Two Way Fire Brigade Inlet with 2 Nos. Spring Loaded NRV and Rubber Cap with Chain.

- 1) Body: Cast iron to IS: 210 Gr. FG200.
- 2) Non return valve: Gunmetal LTB-2 or Stainless steel.
- 3) Inlet: 100 mm NB Flanged inlet.
- 4) Flange size: PCD-180 mm, OD-220 mm, ID-100 mm.
- 5) No. of hole: 04 Nos. Dia of hole: 19 mm.



Three way Inlet Breaching



Three way fire brigade inlet with 3 nos. Spring loaded NRV and Rubber cap with chain.

- 1) Body: Cast iron to IS: 210 Gr. FG200.
- 2) Non return valve: Gunmetal LTB-2 or Stainless steel.
- 3) Inlet: 100 mm NB Flanged inlet.
- 4) Flange size: PCD-180 mm, OD-220 mm, ID-100 mm.
- 5) No. of hole: 04 Nos. Dia of hole: 19 mm.



Four way Inlet Breaching

Four Way Fire Brigade Inlet with 4 Nos. Spring Loaded NRV and Rubber Cap with Chain.

- 1) Body: Cast iron to IS: 210 Gr. FG200.
- 2) Non return valve: Gunmetal LTB-2 or Stainless steel.
- 3) Inlet: 150 mm NB Flanged inlet.
- 4) Flange size: PCD-242 mm, OD-280 mm, ID-150 mm.
- 5) No. of hole: 08 Nos. Dia of hole: 19 mm.

Single Door Fire Hose Box



Capacity:	Suitable for Storing one nos 7.5 mtr or 15 mtr hose and one Nozzle
Dimension:	Height 24" x Width 24" x Depth 10"
Features:	Light Weight & Weather Proof Wall Mounted / Self Standing
Coating:	Finished with Post Office Red Color
Thickness:	18 SWG
Lock:	Mechanical Key Lock
Key Box & Handle	Provided
Wall Mounting Bracket:	Provided
Glass:	Acrylic Fitted with rubber beading for transparency on single door.
Approval:	CE Mark, ISO 9001:2015
Marking:	Brand, CE, ISO 9001:2015, Sr. No., Year of Mfg.

Double Door Fire Hose Box



Capacity:	Suitable for Storing two nos 7.5 mtr or 15 mtr hose and one Nozzle
Dimension:	Height 30" x Width 24" x Depth 10"
Features:	Light Weight & Weather Proof Wall Mounted / Self Standing
Coating:	Finished with Post Office Red Color / Luminous Yellow Color
Thickness:	18 SWG
Lock:	Mechanical Key Lock
Key Box & Handle:	Provided
Wall Mounting Bracket:	Provided
Glass:	Acrylic Fitted with rubber beading for transparency on both door.
Approval:	CE Mark, ISO 9001:2015

ESSEL ABC Powder Type Portable Fire Extinguishers

ESSEL Stored Pressure and Cartridge operated Dry Chemical Powder Fire Extinguishers are characterised by their high performance. Simple method of operation and rapid fire knock down capability. They are suitable for tackling fires involving freely burning materials, petrol & oil, gas & electrical equipment.

TECHNICAL SPECIFICATION

- BIS Approved and ISI marked.
- MAP Mono Ammonium Phosphate Dry chemical powder capable of fire fighting against class A,B,C & Electrically fires.
- Hydraulically tested as per standard passed through anti-corrosive treatment.
- Unique gauge testing system mechanism.
- Controllable discharge.
- Easy to maintain, recharge & service.
- Conformity standard IS 15683 : 2018



Performance Data

Capacity	1 KG.	2 KG.	4 KG.	6 KG.	9 KG.
Map	90%	90%	90%	90%	90%
Fire Rating	1A : 13B	1A : 21B	2A : 21B*	3A : 34 B*	4A : 89B
Height (Approx.)	325mm	380mm	490mm	530mm	575mm
Diameter (Approx.)	86 ± 10mm	106 ± 10mm	140 ± 10mm	150 ± 10mm	180 ± 10mm
Average Range of Throw	2 Mtr.	2 Mtr.	3 Mtr.	5 Mtr.	6 Mtr.
Average Discharge Time	9 Sec.	14 Sec.	18 Sec.	24 Sec.	31 Sec.
Average % Discharge	94%	94%	94%	94%	94%
Service Pressure	15 bar				
Test Pressure	35 Bar				
Operating Temperature	- 30 ^o C to + 55 ^o C	- 30 ^o C to + 55 ^o C	- 30 ^o C to + 55 ^o C	- 30 ^o C to + 55 ^o C	- 30 ^o C to + 55 ^o C
Mounting Bracket	Wall Bracket	Wall Bracket	Wall Bracket	Wall Bracket	Wall Bracket
Approval	BIS ISI				



ESSEL CO2 Type Portable Fire Extinguishers

ESSEL Co2 Portable Fire Extinguishers are characterised by their high performance for fires. Co2 is non-conductive, clean and safe ensuring minimal damage to electrical equipment and furnishings.

TECHNICAL SPECIFICATION

- BIS Approved and ISI marked.
- Carbon Di Oxide is colourless, Odourless, Non Toxic and provides rapid knockdown of industrial fires.
- Wheel operated controllable discharge.
- Rechargeable and easy to service.
- Non-Conductive agent for electrical use without risk to operator.
- Co2 gas disappears quickly leaving no residue.
- Conformity standard IS 15683 : 2018.



Performance Data			
Capacity	2 KG.	3 KG.	4.5 KG.
Model	Wheel Type Valve	Wheel Type Valve	Wheel Type Valve
Fire Rating	8B	13B	21B
Design	Pipe & Horn	Pipe & Horn	Pipe & Horn
Height (Approx.)	580mm	545mm	700mm
Diameter (Approx.)	140 +-10mm	140 +-10mm	140 +-10mm
Average Range of Throw	2 Mtr.	2 Mtr.	2 Mtr.
Average Discharge Time	9 Sec.	11 Sec.	12 Sec.
Average % Discharge	98%	98%	98%
Service Pressure	60 Bar	60 Bar	60 Bar
Test Pressure	250 Bar	250 Bar	250 Bar
Operating Temperature	- 30 ° C to + 55° C	- 30 ° C to + 55° C	- 30 ° C to + 55° C
Mounting Bracket	Wall Bracket	Wall Bracket	Wall Bracket
Approval	BIS ISI	BIS ISI	BIS ISI



ESSEL Auto-modular Type Ceiling mounted Fire Extinguishers

ESSEL Dry chemical Powder, Modular Type Automatic fire extinguishers which keeps guard and extinguishes fire quickly and efficiently. In the event of a fire ESSEL Modular type extinguishers active automatically, spraying the extinguishing agent with maximum force, ensuring that the fire is brought under control rapidly and efficiently.

TECHNICAL SPECIFICATION

- Extinguishing medium is Mono Ammonium Phosphate powder.
- Hydraulically tested as per standard and passed through anti-corrosive treatment.
- Automatic operation, hence no human involvement, reducing the chances of injury and accidents to virtually zero.
- Reusable cylinder as it is not based on aerosol technology. Hence most economical.
- Non-Freezing & long lasting.
- Rechargeable and easy to service.
- Provides securities in case of emergencies and power failure without power backup.



Performance Data

Capacity	2 KG.	5 KG.	10 KG.	15 KG.
Design	Ceiling Mounted	Ceiling Mounted	Ceiling Mounted	Ceiling Mounted
Height (Approx.)	380mm	375mm	405mm	425MM
Diameter (Approx.)	150 ± 10mm	230 ± 10mm	300 ± 10mm	400 ± 10mm
Area Protection	1 to 1.5 m ²	2 to 2.5 m ²	4 to 5 m ²	5 to 6 m ²
Volume Protection	3 m ³	7 m ³	12 m ³	17 m ³
Hanging Height Above Risk	1.5 Mtr.	1.5 to 2 Mtr.	1.75 to 2.25 Mtr.	2 to 3 Mtr.
Average Discharge Time	4-5 Sec.	6-8 Sec.	10-15 Sec.	15-20 Sec.
Average % Discharge	99%	99%	99%	99%
Service Pressure	15 Bar	15 Bar	15 Bar	15 Bar
Test Pressure	35 Bar	35 Bar	35 Bar	35 Bar
Operating Temperature	- 30 ° C to + 55° C	- 30 ° C to + 55° C	- 30 ° C to + 55° C	- 30 ° C to + 55° C
Mounting Bracket	Ceiling Mounting Stand	Ceiling Mounting Stand	Ceiling Mounting Stand	Ceiling Mounting Stand



ESSEL SS Body K Type, Kitchen Fire Extinguishers

Kitchen Fire Extinguishers are designed to put out such kind of fires safely and effectively in residential and commercial kitchens. It works on the principle of specification. The alkaline mixture of wet chemical while applied on burning oil, create a soapy foam layer on the surface. While holds vapour and steam inside and extinguishes the fire.

TECHNICAL SPECIFICATION

- Unique gauge testing system mechanism.
- Hydraulically tested as per standard requirements.
- EPDM Rubber braided hose is far more flexible than the PVC braided hoses and also far less prone to cracks.
- Smooth finish stainless steel body to give aesthetic impression.
- Easy to maintain, recharge & service.
- CE Certified.



Performance Data

Capacity	2 Ltr	3 Ltr	6 Ltr	9 Ltr
Fire Rating	5F	5A : 25F*	8A : 40F*	8A : 40F*
Design	Hose & Nozzle	Hose & Nozzle	Hose & Nozzle	Hose & Nozzle
Discharge Time Min.	10 Seconds	12 Seconds	20 Seconds	30 Seconds
Service Pressure	10 Bar	10 Bar	10 Bar	10 Bar
Test Pressure	35 Bar	35 Bar	35 Bar	35 Bar
Height (Approx.)	440mm	500mm	550mm	610mm
Diameter (Approx.)	110 ± 5mm	140± 5mm	150± 5mm	180± 5mm
Average % Discharge	95%	95%	96%	96%
Operating Temperature	+ 5 ° C to + 60° C	+ 5 ° C to + 60° C	+ 5 ° C to + 60° C	+ 5 ° C to + 60° C
Painting	Polished Stainless / Red Coated			
Approvals	CE	CE	CE	CE



ESSEL Clean-agent type Fire Extinguishers

ESSEL Make clean agent type fire extinguisher consisting HFC227ea clean agent, UL approved are Automatic fire extinguishers which keeps guard and extinguishes fire quickly and efficiently. In the event of fire, ESSEL Modular type fire extinguishers activate automatically, spraying the extinguisher agent with maximum force, ensuring that the fire is brought under control rapidly and efficiently.

TECHNICAL SPECIFICATION

- Applicable on A,B,C Types fires, Electrically started fires and ideally used on computers, telephones, switch gears, sensitive data storage, offices, boats, aircrafts and laboratories.
- Unique Gauge testing system mechanism.
- Anti-corrosive treatment semi-automatic seven tank hot dipping phosphate treatment process.
- Provides security in case of emergencies and power failure without power backup.
- Easy to maintain, recharge & service.



Performance Data

Capacity	2 KG.	5 KG.	10 KG.	15 KG.
Design	Celling Mounted	Celling Mounted	Celling Mounted	Celling Mounted
MOC	Mild Steel	Mild Steel	Mild Steel	Mild Steel
Discharge Valve	Sprinkler Type	Sprinkler Type	Sprinkler Type	Sprinkler Type
Powder Coating	Fire red	Fire red	Fire red	Fire red
Operating Temperature	-30 C° to + 55C°	-30 C° to + 55C°	-30 C° to + 55C°	-30 C° to + 55C°
Service / Test Pressure	15 / 35 Bar	15 / 35 Bar	15 / 35 Bar	15 / 35 Bar
Expelling Agent	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)
Average Discharge time	4-5 Sec.	6-8 Sec.	10-15 Sec.	15-20 Sec.
Hanging Height above risk	1.5 Mtr.	1.5 Mtr to 2 Mtr.	1.75 Mtr to 2.25 Mtr	2 Mtr to 3 Mtr
Area Protection	1 to 1.5 M ²	2 to 2.5 M ²	4 to 5 M ²	5 to 6 M ²
Volume Protection	2.5 M ³	6 M ³	10 M ³	15 M ³
Average % Discharge	99%	99%	99%	99%
Approval	CE	CE	CE	CE



Mobile Foam Unit



The ESSEL HI-COMBAT MFU100 Mobile Foam Unit is a self-contained cart designed for rapid employment of foam concentrate to flammable liquid fires or chemical spills. Ease of handling and mobility, combined with exceptional fire fighting capability, make the ESSEL MFU100 ideal for protection of oil storage and loading terminals, process areas, paint and solvent stores, engine rooms and similar high risk areas.

Requiring only connection to a pressurized water supply, the MFU100 provides a compact and highly efficient firefighting unit for rapid response with minimum manpower requirements.

With numerous equipment configurations available, the MFU 100 is highly flexible in use and allows the firefighter to select the most appropriate combination for the specific risk.

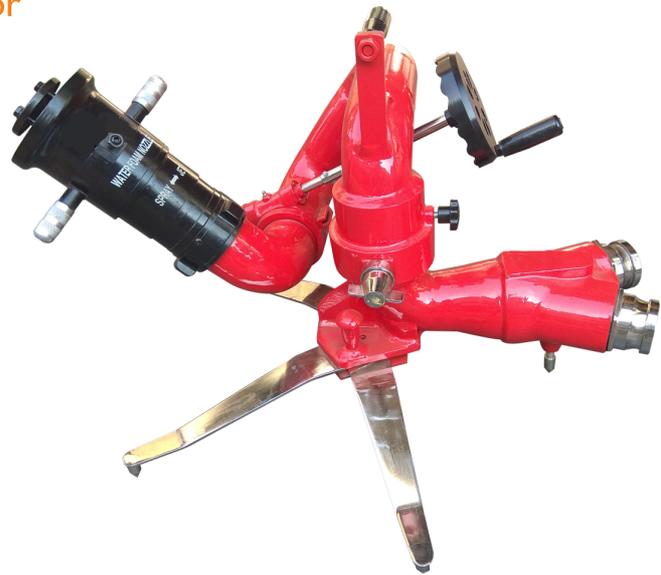
The ESSEL HI-COMBAT MFU100 unit is suitable for use with all types of foam concentrate and is particularly effective when used with 3% aqueous film forming foams.

- 100 liter MS / SS / fiberglass tank, mounted on steel chassis with solid rubber wheels and Castor wheel. ESSEL 225 foam Inductor.
- Foam nozzle FB 5X or FB 2X.
- Provision to keep Two 30 meter x 2 1/2" diameter fire hoses (optional).
- Instantaneous British Male Female couplings of Light Alloy or Gunmetal (Chrome plated).
- Steel foam pick-up tube and reinforced PVC hose with quick acting end connection

Inductor	Nozzle	Foam Produced
ESSEL 225	FB 5X FB 2X MED EXP 225	Low expansion Foam Expansion ratio 10:1 Low expansion Foam Expansion ratio 10:1 (Longer Jet) Medium expansion Foam Expansion ratio 45:1 ideal for vapour suppression
ESSEL 450	FB 10X MED EXP 450	Low expansion Foam Expansion ratio 10:1 Medium expansion Foam Expansion ratio 45:1 ideal for vapour suppression

Also available in different sizes like 100, 150, 200, 250 etc. and configurations like SS 304, SS 316, FRP etc.

Portable Ground Water Monitor with 02 inlets



Specification:

- Portable lightweight Ground monitor suitable for ground operation.
- Monitor will be made of Aluminum Alloy (anodized), turbulence free waterways S.S. ball bearing type swivel joint.
- Monitor will have arrangement for two inlets of 63mm male instantaneous coupling.
- Monitor will be fitted with Non-AIR Aspirating type jet and spray nozzle having flow capacity of 3500 LPM.
- Flow rate will be of Minimum 2400 LPM at 7kg/cm² pressure when used as a portable monitor.
- The water nozzle shall have jet, spray and fog delivery capability. The complete monitor assembly shall be light in weight and capable of operation by 1 fireman
- Monitor generally as per IS: 8442.
- Each monitor shall be clearly and permanently marked with manufacturer's name or trade mark, year of manufacture, capacity/flow rate etc.
- The entire assembly shall be hydraulically tested to a pressure of 21 Kg/cm² for 5 minutes without any leakage. Certificate of hydro testing shall be provided along with the delivery of material.
- Monitor will be mounted on folding stainless steel legs having carbide tipped spikes to provide better stability on hard surfaces such as concrete and asphalt.
- Monitors shall be painted with fire red colour confirming to IS: 5 shade no. 536 and the paint Shall confirm to IS: 2932



Water Monitor

Monitors used extensively for industrial fire protection, Manufactured as per **IS 8442**.

Item Description: Stand post type water monitor having 63mm / 75mm / 100mm barrel size & flanges inlet as per IS 8442

Material of Construction: MS Seamless pipes (IS: 1239), Hot dip galvanized, SS: 304 Swivel joints

Hydrostatic Pressure tested: 23 Kg/cm²

Water Cum Foam Monitor - Barrel Type

Foam Monitors used extensively for industrial fire protection, Manufactured as per **IS 8442**.

Item Description : Stand post type water Foam monitor having 63mm / 75mm / 100mm barrel size & flanges inlet as per IS 8442

Material of Construction: MS Seamless pipes (IS: 1239), Hot dip galvanized, SS:304 Swivel joints & Discharge nozzle made Aluminum alloys. Pick up tube made of PVC braided with strainer.

Hydrostatic Pressure tested: 23 Kg/cm²



Water Cum Foam Monitor Aqua Nozzle Type

Foam Monitors used extensively for industrial fire protection, Manufactured as per **IS 8442**.

Item Description: Stand post type water Foam monitor having 63mm / 75mm / 100mm Aqua Nozzle size & flanges inlet as per IS 8442

Material of Construction: MS Seamless pipes (IS: 1239), Hot dip galvanized, SS:304 Swivel joints & Discharge Aqua nozzle made Aluminum alloys. Pick up tube made of PVC braided with strainer.

Hydrostatic Pressure tested: 23 Kg/cm²

Trolley Mounted Water / Foam Monitor with 02/ 03 Inlet 63mm Coupling

Trolley Mounted Water / Foam Monitors used extensively for industrial fire protection, Manufactured as per **IS 8442**.

Item Description: Trolley Mounted Stand post type water / Foam monitor having 63mm/75mm/100mm Aqua Nozzle size & flanges inlet as per IS 8442

Material of Construction: MS Seamless pipes (IS: 1239), Hot dip galvanized, SS:304 Swivel joints & Discharge Aqua nozzle made Aluminum alloys. Pick up tube made of PVC braided with strainer.

Hydrostatic Pressure tested: 23 Kg/cm²





- /// **Female Instantaneous Coupling** Gunmetal / Stainless steel as per Indian Standard, Working Pressure: 10.5 Kg/cm², Test Pressure: 22.5 Kg/cm²



- /// **Collecting Breech** Gunmetal / Stainless steel having 1 no. 63mm Female Instantaneous and 2 nos. 63mm Male Instantaneous outlet as per IS: 905 Working Pressure: 10.5 Kg/cm², Test Pressure: 22.5 Kg/cm²



- /// **Dividing Breech** Gunmetal / Stainless steel having 1 no. 63mm Male Instantaneous and 2 nos. 63mm Female Instantaneous outlet as per IS: 905 Working Pressure: 10.5 Kg/cm², Test Pressure: 22.5 Kg/cm²



- /// **Controlled Dividing Breech** Gunmetal / Stainless steel with Separate Control Valve having 1 no. 63mm Male Instantaneous & 2 nos. 63mm Female Instantaneous Outlet. Working Pressure: 10.5 Kg/cm², Test Pressure: 22.5 Kg/cm²



- /// **Double Male Adaptor** Gunmetal / Stainless steel Instantaneous of 63mm as per Indian Standard. Working Pressure: 10.5 Kg/cm², Test Pressure: 22.5 Kg/cm²



- /// **Double Female Adaptor** Gunmetal / Stainless steel Instantaneous of 63mm as per Indian Standard. Working Pressure: 10.5 Kg/cm², Test Pressure: 22.5 Kg/cm²



- **Foam Making Branch Pipe FB5X** – Made from Aluminum Alloy with 63mm Male Instantaneous Inlet with Pickup tube – 225 LPM as per IS: 2097
Working Pressure: 10.5kg/cm², Test Pressure: 22.5kg/cm²



- **Non Return Valve** – Gunmetal or Stainless steel body male Instantaneous with Spring Loaded non return valve.
Working Pressure: 10.5kg/cm², Test Pressure: 22.5kg/cm²



- **Inline Inductor** – Aluminum / SS 304 / GM body suitable for mixing of concentrated foam solution with water at 7kg/cm² 450 LPM foam and busting pressure more than 50kg/cm²



- **Air Release Valve** – Gunmetal (Copper Alloy) with threaded male inlet connection with 1" (25mm) size.
Working Pressure: 10.5kg/cm², Test Pressure: 22.5kg/cm²



- **Orifice Plate** – Gunmetal/Stainless steel body as per IS: 3444 with OD 200mm PCD 160mm inlet size as per requirement,
Hole: 4 Nos. Thickness as per requirement.



- **Foam Making Branch Pipe FB 10X** – Aluminum Alloy body Foam making branch pipe capable of mixing & producing foam of 480 LPM @ 7kg/cm² inlet pressure and bursting pressure more than 50kg/cm² with a range flow of 18 meters.



- **Fireman Axe** – Chrome plated forged carbon steel with insulated moulded rubber handle as per IS: 926 applicable for up to 20,000 watts tested.



- **Fire Hydrant Stand Post** – Mild steel fabricated body with flanged inlet and hydrant valved outlet having Working Pressure: 10.5kg/cm² & Test Pressure: 22.5kg/cm²



- **Fire Bucket** – M.S. Sheet fabricated, dry sand fire bucket made of 24 gauge MS sheet steel and galvanized conforming to relevant Indian standard, with consideration of anticorrosive paint from inside and double coating of corrosion relevant paint from outside available with relevant MS fabricated fire bucket stand.



- **Fire Alarm Panel** – Microprocessor based conventional fire alarm control panel consist of 16 X 2 dot matrix LCD Display with AC 230 Volts, DC 24 Volts and 50 Hz +- 5% power supply with 35 Watt power consumption. Cabinet made of Powder coated steel with 7 kg weight without battery and compatible with all types of conventional smoke detectors.



- **Manual Call Point** – 87mm x 87mm x 57mm surface mounted call point device with an operating temperature of -10 degrees to +55 degrees and operating voltage 18 Vdc to 30 Vdc and weight 200 grams red in color.



- **Fire Hooter** – Excellent lateral sound distribution with three evacuate tones (continuous, warble or sweep) and one Alert tone and High (100dB @ 1m) and low (94dB @ 1m) volume settings. ABS 5839: Part 1 compliant locking facility of the instrument with a 'quick-fit' bayonet fixing installation facility.



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS



फॉर्म आरजी - 2
Form RG - 2


भारत सरकार
Government of India
व्यापार चिन्ह रजिस्ट्री
Trade Marks Registry
व्यापार चिन्ह अधिनियम, 1999
Trade Marks Act, 1999
व्यापार चिन्ह के रजिस्ट्रेशन का प्रमाणपत्र, धारा 23 (2), नियम 56 (1)
Certificate of Registration of Trade Mark, Section 23 (2), Rule 56 (1)


INTELLECTUAL PROPERTY INDIA
Patents (Design) Trademarks
Geographical Indications

क्रमांक
No. 2693402

व्यापार चिन्ह संख्या / Trade Mark No. 4678371 दिनांक / Date 29/09/2020 ज. संख्या / J. No. 1971

यह प्रमाणित किया जाता है कि जिस प्रकार चिन्ह की समकृति इसके साथ संलग्न है, वह नाम से रजिस्ट्रीकृत हो चुका है।
Certified that Trade Mark / a representation is annexed hereto, has been registered in the name(s) of:-
ESSEL VALVES PRIVATE LIMITED, G 1310/B, METODA, G.I.D.C., NEAR ELSA POWER, KADVANI CHOWK, RAJKOT, GUJARAT-360021, PRIVATE LIMITED COMPANY, Manufacturer of firefighting equipments, (Body Incorporate)

In Class 9 Under No. 4678371 as of the date 29 September 2020 in respect of
Manufacturing of Firefighting Equipment

ESSEL

मेरे निर्देश पर आज के मास के वे दिन को इस पर मुद्रा लगायी गई
Sealed at my direction, this 04th day of April, 2021

व्यापार चिन्ह रजिस्ट्री
Trade Marks Registry MUMBAI व्यापार चिन्ह रजिस्ट्रार
Registrar of Trademarks

रजिस्ट्रेशन अर्हता की शर्तों में 10 वर्षों के लिए है और आवश्यकता होने पर 10 वर्षों की अवधि के लिए और प्रत्येक 10 वर्षों की अवधि के अंत में भी नवीनीकृत किया जा सकता है।
Registration is for 10 years from the date of application and may then be renewed for a period of 10 years and also at the expiration of each period of 10 years.
यह प्रमाणपत्र किसी कार्यवाही में प्रयोग के लिए या विदेश में रजिस्ट्रेशन अधिग्रहण करने के लिए नहीं है।
This certificate is not for use in legal proceedings or for obtaining Registration abroad.
टिप्पणी - इस व्यापार चिन्ह के स्वामित्व में कोई परिवर्तन होने पर, या कारोबार के मुख्य स्थान के पते में या भारत में जहाँ के लिए पते में परिवर्तन होने पर रजिस्ट्रेशन के लिए अर्हता न्यूनतम किया जाना चाहिए।
Note: Upon any change of ownership of this Trademark, or change in address, of the principal place of business or address for service in India a request should AT ONCE be made to register the change.

Certificate of Registration

**The Governing Board of
Progressive International Certifications Limited
hereby grant to:**

ESSEL VALVES PRIVATE LIMITED

Address to which this Certificate refers:

**G - 1310/B, METODA GIDC, NEAR ELSA POWER, KISHAN ROAD,
KALAWAD ROAD, RAJKOT - 360021, GUJARAT - INDIA.**

(Here in after called the Registered firm) the right to be listed in the Directory of Registered firm in respect of the services listed below. These services shall be offered by the Registered firm at or from only the address given above in accordance and compliance with

QUALITY MANAGEMENT SYSTEM ISO 9001:2015

Approved Scope to which this Certificate refers

**MANUFACTURER, EXPORTER OF LANDING VALVE, HOSE COUPLING,
HOSE PIPE AND ALL TYPES OF FIRE FIGHTING EQUIPMENTS.**

Registration No. : PICL/QMS/95198148
Certificate Issue Date: 28.03.2019
1st Surveillance: 03.2020

Certificate Expire Date: 27.03.2022
2nd Surveillance: 03.2021

Head of Certificate

This Certificate of Registration is granted subject to the Regulations approved by the Board.
PROGRESSIVE INTERNATIONAL CERTIFICATIONS INC.
England - Office 4, 219, Kensington High Street, Kensington, London, W8 6BD, England.
India - Prakruti, Plot No. 03, Sector 21 Kharghar, Navi Mumbai - 410210, India.
Ph: +91 8080991130, E-mail: info@progressivevcltd.com, Website: www.progressivevcltd.com
For current validity of this certificate. Please visit our website

USE OF ACCREDITATION MARK INDICATES ACCREDITATION IN RESPECT OF THE ACTIVITIES COVERED BY
ACCREDITATION INSTITUTE ASSESSMENT BODY (EUROPE) CERTIFICATION NUMBER 005

Certificate of Compliance

**PRODUCT CERTIFICATE
EC Attestation of Conformity**

ESSEL VALVES PRIVATE LIMITED

Address :
**G - 1310/B, METODA GIDC, NEAR ELSA POWER, KISHAN ROAD,
KALAWAD ROAD, RAJKOT - 360021, GUJARAT, INDIA.**

In compliance with Directive:
MD-88/37/EC

For the following product:
**LANDING VALVE,
HOSE COUPLING,
FIRE HOSE REEL,
HOSE PIPE FIRE FIGHTING EQUIPMENT,
FACE MASK.**

In accordance with:
TCF No. CE/01

The present certificate exclusively refers to the product above identified, in accordance to TCF submitted in CQCPL. Any changes or modification implemented on the mentioned product will not covered by this certificate

Registration No. : CQCPL/CE/0319/0920
Certificate Issue Date: 28.03.2019
1st Surveillance: 03.2020

Certificate Expire Date: 27.03.2022
2nd Surveillance: 03.2021

Manohar Malani
Managing Director

CRESCENT QUALITY CERTIFICATION PVT. LTD.
B-1005, Gandhinagar Symphony, Veera Deval Road, Andheri West, Mumbai - 400 053, India
Phone: +918826429510, Email: info@crecentqualitycertification.com,
Website: www.crecentqualitycertification.com
For Current validity of this certificate, please visit our website

**प्रारूप 1
पंजीकरण प्रमाण-पत्र**

कॉर्पोरेट पहचान संख्या : U29100GJ2010PTC060344 2010 - 2011

मैं एतद्वारा सत्यापित करता हूँ कि मैंसर्त
ESSEL VALVES PRIVATE LIMITED

का पंजीकरण, कम्पनी अधिनियम 1956 (1956 का 1) के अंतर्गत आज किया जाता है और यह कम्पनी प्राइवेट लिमिटेड है।

यह निगमन-पत्र आज दिनांक बीस अप्रैल दो हजार दस को मेरे हस्ताक्षर से अहमदाबाद में जारी किया जाता है।

**Form 1
Certificate of Incorporation**

Corporate Identity Number : U29100GJ2010PTC060344 2010 - 2011
I hereby certify that **ESSEL VALVES PRIVATE LIMITED** is this day incorporated under the Companies Act, 1956 (No. 1 of 1956) and that the company is private limited.

Given under my hand at Ahmedabad this Twentieth day of April Two Thousand Ten

(VILAS SAMBAHJI HAJARE)
सहायक कम्पनी रजिस्ट्रार / Assistant Registrar of Companies
गुजरात, दादरा एवं नगर हवेली
Gujarat, Dadra and Nagar Haveli

कम्पनी रजिस्ट्रार को बर्यांलय अधिनियम में उल्लेख पत्राचार का पता:
Mailing Address as per record available in Registrar of Companies office:
ESSEL VALVES PRIVATE LIMITED
92 CMKAR TOWER APARTMENT, OFF NIRMALA CONVENT SCHOOL,
RAJKOT - 360007,
Gujarat, INDIA

**भारत सरकार
Government of India**

सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises

UDYAM REGISTRATION CERTIFICATE

Our small hands to make you LARGE

UDYAM REGISTRATION NUMBER	UDYAM-GJ-20-0032588							
NAME OF ENTERPRISE	MS ESSEL VALVES PRIVATE LIMITED							
TYPE OF ENTERPRISE *	SMALL							
MAJOR ACTIVITY	MANUFACTURING							
SOCIAL CATEGORY OF ENTREPRENEUR	GENERAL							
NAME OF UNITS	S.No.	Udyog Aadhaar Memorandum No.	Unit's Name					
	1	GJ2008008722	ESSEL VALVES PVT LTD					
OFFICIAL ADDRESS OF ENTERPRISE	Flat/Door/Block No.	PLOT NO. G-1310-B	Name of Premises/ Building					
	Village/Town	METODA	Block					
	Road/Street/Lane	NR, ELSA POWER	CRP					
	State	GUJARAT	District					
	Mobile	8481395121	Email:					
			info@esselvcl.com					
DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE	20/04/2010							
DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS	13/09/2010							
NATIONAL INDUSTRY CLASSIFICATION CODE(S)	S.No.	NIC 2 Digit	NIC 4 Digit	NIC 8 Digit	Activity			
	1	24	Manufacture of basic metals	2411	Casting of iron and steel	24111	Manufacture of tubes, pipes and hollow profiles and of cast-iron, cast-steel	Manufacturing
	2	32	Other manufacturing	3299	Other manufacturing n.e.c.	32999	Manufacture of other articles n.e.c.	Manufacturing
DATE OF UDYAM REGISTRATION	22/06/2021							

* In case of graduation (upwardness) of status of an enterprise, the benefit of the Government Scheme will be availed as per the provisions of Notification No. S.O. 2139(E) dated 26.06.2020 issued by the Mo MSME.
Disclaimer: This is computer generated statement, no signature required. Printed from <https://udyamregistration.gov.in> & Date of printing: 22/06/2021

For any assistance, you may contact:

1. District Industries Centre: RAJKOT (GUJARAT)
2. MSME-DE: AHMEDABAD (GUJARAT)

BE A CHAMPION

ESSEL is very well committed to uphold its highest standards of integrity and good governance and have always been practicing ethical business strategies while establishing long term relations with its esteemed and prestigious clients of different industries.

Construction and Cement



Refineries and Petrochemicals



Marine and Ship-ports



Thermal power & Heavy Engineering



Pharmaceuticals and Education



Science-Tech, Coal- Mining, Defence and other Primary Industries



STANDARDIZATION

All Products are manufactured in accordance with the guidelines set by Indian and International Standards.

PROCUREMENT OF RAW MATERIALS

For the foremost stage of manufacturing process, gun metal and brass ingots, steel casting of different grades, stainless steel round bars, forging metals, hardware (nuts & bolts), EPDM gaskets, paints and also Corrugated or wooden packing materials shall be our initial raw material.

QUALITY ASSURANCE

All raw materials are supplied from authorised and approved supplying firms only and checked by our Internal Quality Assurance Department prior to infusion into the manufacturing process with an INWARD PASSED sign after accurate quality testing process.

PRODUCING CASTED BODIES AND ACCESSORIES

Our high capacity foundry for Gunmetal and stainless steel production assures maximum production for the valve body, bonnets, seat and spindles with proper removal of wastes from the alloy and discharge through non polluting techniques.

MACHINING

The raw materials is issued to the machinery premises for machining through material requisition slips. Valve body, bonnet, valve seat, spindles etc. are machined on heavy duty CNC machines by our highly trained staff representatives after which all the components are checked by vernier callipers or micrometers strictly as per Indian standards criterias.

IN-PROCESS TESTING

After dimensional analysis and accurate measurement testing, the valve body and bonnet are sent for hydrostatic Testing to the testing yard and other components are sent to the fitting / assembling department. All the bodies and bonnets are tested on Heavy Motorized Hydrostatic Pumps. The pressure test as per qualified standards ensures zero leakage and zero tolerance changes to the valve body's dimensions.

PROCESS OF ASSEMBLING

The body and bonnet which are hydrostatically qualified are sent to the assembly unit duly handled with care. The body and bonnets are drilled there with drill machine with the help of jigs and fixtures for uniformity and interchangeability which is later checked by the team of Quality Assurance.

PRESSURE TESTING

After assembly, the hydrant valve is sent for hydrostatic testing again. If no leakage is observed, as per the relevant standards, it is sent to the finishing department.

FINISHING / PAINTING

The valve body surface is debarred and finished by sanders and flexible shaft grinders for better appearance and smooth finishing. One coat of corrosion resistant primer (Red Oxide) is sprayed.

FINAL INSPECTION

After painting, final inspection is done by our Quality Assurance Department / Third Party Inspection Agency which shall is responsible for co-relating and checking all records relating to the valve concerned.

PACKING

In the packing department all the valves are covered with polythene packaging and placed into corrugated box with a bed of grass for non-damage of valves. It is then covered and nailed with a packing note and signed as "READY FOR DISPATCH"

Quality Assurance Plan & System / Manual

ACTIVITIES

- Incoming materials-inspection of casting, forging, raw materials, hardware, bars etc.
- Quality Assurance and Inspection of components and sub-assemblies supplied by approved vendors.
- Line inspection of components, sub-assemblies manufactured on the shop floor.
- Final Inspection and Performance Test.
- Inspection of packing and despatch.
- Tools and instruments calibration and maintenance of test standards.
- Maintaining test records and inspection results.

Corporate Social Responsibility

Corporate social responsibility (CSR) is a type of business self-regulation with the aim of being socially accountable. There is no one "right" way companies can practice CSR; many corporate CSR initiatives strive to positively contribute to the public, the economy or the environment. In today's socially conscious environment, employees and customers place a premium on working for and spending their money with businesses that prioritise Corporate social responsibility. ESSEL VALVES PRIVATE LIMITED have always prioritised practicing the corporate social responsibilities and contribute to the world.

1 Environmental Efforts: One primary focus for ESSEL of CSR is the environment. Businesses, regardless of size, have large carbon footprints and irresistible polluting wastes. Hence, the company always possesses non polluting discharge of wastes and fumes and trains the employees for reduction of solid wastes harmful for the mother earth.

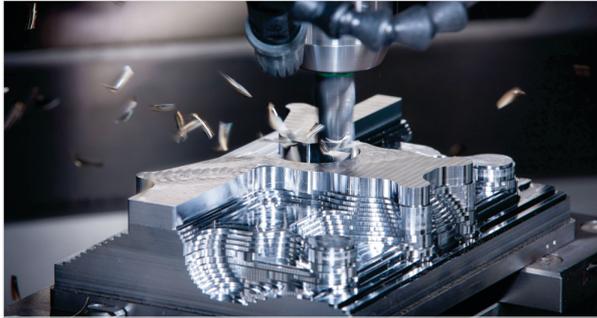
2 Philanthropy: ESSEL practices social responsibility by charity of money, products or services to social causes and non profits. Essel group believes regardless you are a big firm or small entity, your efforts can make a big difference. Essel group therefore stays no behind when it comes to noble ness.

3 Ethical Labor Practices: By treating employees fairly and ethically, the company also demonstrate Corporate social responsibility. The HR Dept. of the company are regularly advised to check weather non discriminating policies are followed in the premises or not and regular checks are kept by the HR managers to maintain a peaceful and harmony workplace environment among employees and working staff.

4 Volunteering: Participating in local causes or volunteering the time in the community events also describes a lot about the company's sincerity. By doing good deeds without expecting anything in return, Essel group always expresses the concern for specific issues and social causes.

PRODUCT NAME: LANDING VALVE, HOSE COUPLING & BRANCH PIPE

Sr. No.	DESCRIPTION	CHARACTERISTIC	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA
1.0	Incoming Material	-	-	-	-	-
1.1	Body, Bonnet & Coupling	Visual	Surface finishing & marking Logo, Mat, code, Size, Heat No.	100%	P.O. & W.I. for receiving inspection	IS 5290, IS 903 Punched on costing
1.2	Round Bars, Castings, Spindle	Visual	Surface finishing Dimensional checkup by Vernier Caliper, measure tape	100%	P.O. & W.I. for receiving inspection	IS Standard
1.3	Operator (Hand Wheel)	Chemical Composition	Chemical Analysis	100%	Chemical analysis report of laboratory	Relevant Technical Catalogue
1.4	Fastener	Visual Dimensional	Surface finishing & Square hole	100%	Drawing, P.O. & W.I.	Dimensional Drawing
1.5	Gasket	Visual	Dimensional checkup by	Random Stamping	P.O. & W.I. for receiving inspection	IS Standard
2.0	In Process Inspection	Fitness Size	Dimensional check up by Dimensional check up	Random sampling	P.O. Dimensional drawing & W.I.	IS Standard
2.1	Body, Bonnet, Handwheel all machined parts	Machining Dimensions	Measurement by Vernier Caliper after machining	Random Sampling	Drawing	Drawing
3.0	Inspection & Testing					
3.1	Hydrostatic test of assembled valve	Shell test seat Leakage & gland Leakage	Pressure test by Hydraulic test pump	100%	W.I. for pressure testing	Relevant standard
4.0	Final Inspection					
4.1	Overall dimensions	Dimensions	Measurement by foot rule & measure tape	100%	Dimensional drawing	Drawing
4.2	Surface finishing	Painting finishing	Visual	100%	W.I. for Painting	Illustrated sample
5.0	Packing	Proper packing	Visual	100%	Work instruction for packing	Prevent from Deterioration



Most advanced Manufacturing & Quality Control Systems

List of Machinery Installed

Sr. No.	DESCRIPTION	SIZE Centre x Bed Width x Length	Qty Nos.
1	CNC Machine - GT - 100	Medium Duty	1 No.
2	CNC Machine - XL - 200	Heavy Duty	1 No.
3	Heavy Duty Lathe Machine	15" x 15" x 5 1/2 ft.	5 Nos.
		10" x 13" x 7 ft.	1 No.
		15" x 13" x 7 ft.	1 No.
		8" x 9" x 6 ft.	2 Nos.
		8 1/2" x 11" x 5 1/4 ft.	3Nos.
4	"Makwana" Pillar Drill Machine	25 mm (Drilling Capacity)	3 Nos.
5	"Vipul" Bench Grinder	200 mm	4 Nos.
6	"Neutron" Pencil Hemry Grinder	1 HP	2 Nos.
7	"Wolf" HS-7 Hand Grinder	7"	4 Nos.
8	"Wolf" Bosch Angle Grinder	5"	8 Nos.
9	"Test-Well" HYD. Testing Pump	70 Kg Pressure	5 Nos.
10	"BTH" Copper Rectifier Welding Machine	600 Amp.	3 Nos.
11	Hydraulic Trolley	1 TONE	1 Set
12	Hand Operated Trolley	500 Kg	4 Set



ISO 9001:2015
Certified Company

Manufacturer:

ESSEL VALVES PVT. LTD.

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