

# PIONEERING FLUID CONTROLS



Product Outlay for : HVAC | Firefighting | Plumbing & PHE





# | COMPANY

## **A HISTORY OF QUALITY. A COMMITMENT TOWARDS INNOVATION.**

Since our inception in 1988, we at VTM-UTAM have evolved to become one of the leading manufacturers of flow control products, with a strong reputation in both the Indian and International markets.

Now in our third decade of operations, we produce and market Industrial Valves, Gate, Global, Check, Ball & Butterfly Valves, and a wide range of Flow Meters. To serve the needs of our clients better, VTM-UTAM delivers its products through its three mainline brands viz. UTAM, VTM and FEDREL.

## **TOP-NOTCH PRODUCTS DELIVERED THROUGH EXPERTISE, ACROSS INDUSTRIES**

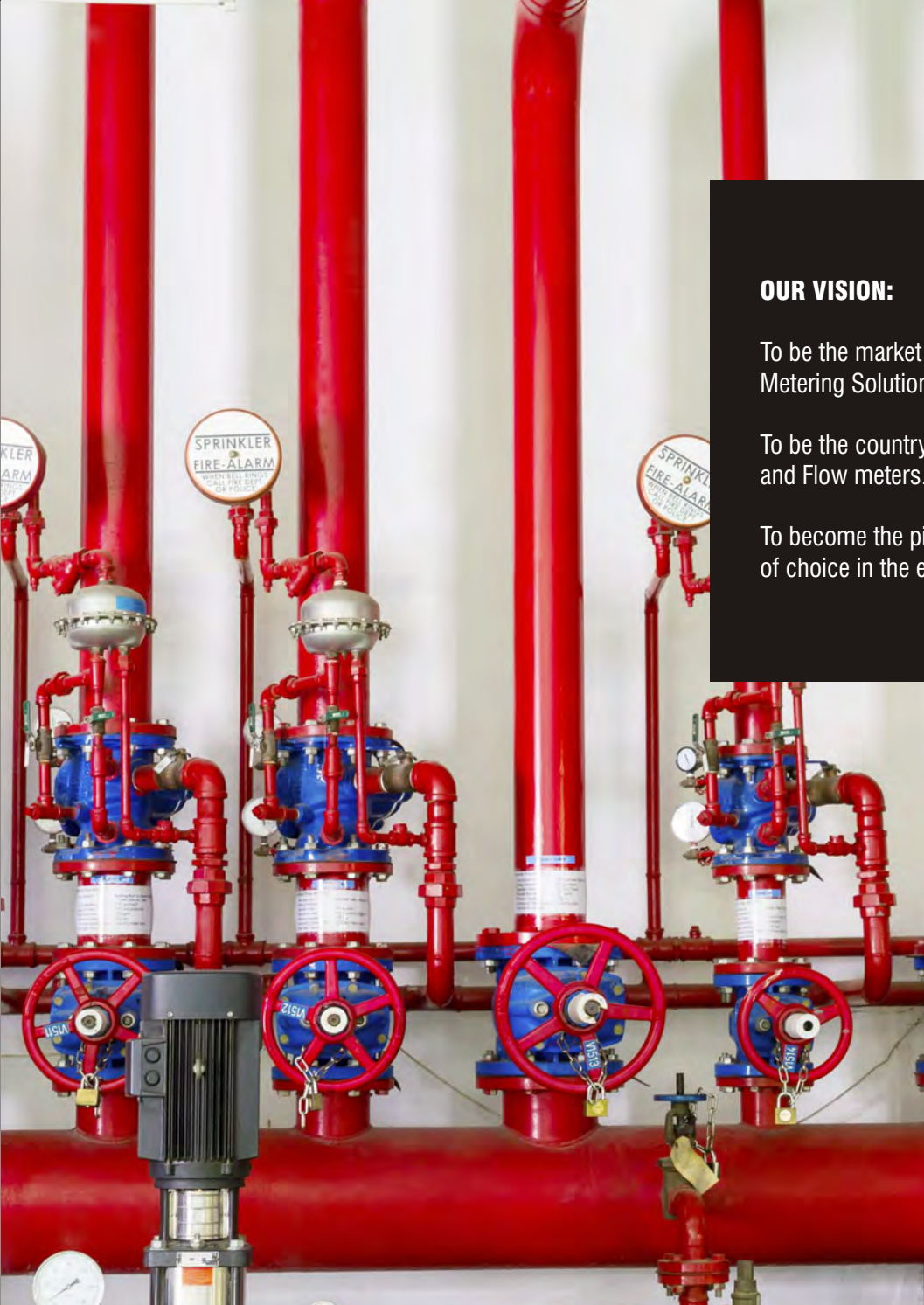
All manufacturing facilities of VTM-UTAM are ISO 9001:2008 certified, with special care taken to ensure a consistency of production, testing, quality and availability.

VTM-UTAM continues to expand its range of offerings and address the demands of both domestic and industrial applications, while staying true to its philosophy of Quality, Safety, Ease of Operations and Simple in-Line Maintenance.

The low cost of ownership and the promise of long-term reliability has made our brand, the preferred partner for clients from diverse industries.







#### **OUR VISION:**

To be the market leader in Valves and Metering Solutions in the Indian market.

To be the country's outstanding exporter of Valves and Flow meters.

To become the pioneer in innovation and the employer of choice in the engineering products industry.

#### **OUR RANGE OF PRODUCTS**



# INFRASTRUCTURE

## THE PILLARS OF OUR SUCCESS

### Design

At VTM-UTAM, our penchant for innovation reflects in our efforts to constantly develop new products and also explore effective ways to meet customer demands in terms of product reliability, longevity and lower energy bills.

To help foster innovation across all levels, we have invested heavily in:

- a) Deploying state-of-the art design and simulation techniques such as specialized 3D modeling software along with FEA (Finite Element Analysis) and CFD (Computational Fluid Dynamics) tools.
- b) Employing skilled Design Engineers with the right kind of expertise and mindset necessary for innovation.

### Foundry

To maintain a strong grip over quality control and on-time delivery of our products, we at VTM-UTAM have installed Modern Induction Furnaces as well as Shell & Sand Moulding techniques. These installations have facilitated in producing castings of premium quality, which helped us secure the prestigious PED (Pressure Equipment Directive) certification.

### Manufacturing

VTM-UTAM has two modern factories spread over 11,000 Square Meters, in the city of Jalandhar, in Punjab, India. The factories employ a skilled workforce of over 300. The latest CNC machining centers, horizontal boring machines, specialized welding machines, spray paint and powder coating facilities and cranes used for handling large sized products, help the diligent workforce achieve the ultimate target of customer satisfaction. Globally accepted processes are established in the factories to ensure that products conform to various International standards and customer requirements, while adhering to Health, Safety and Environment practices.

### Testing and Calibration

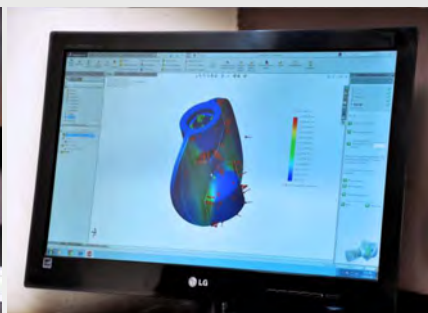
At VTM-UTAM, our physical testing and chemical analysis labs are equipped with modern machinery to ensure that the metallurgical properties of all the raw materials are in strict compliance with the highest standards and codes.

For example, each and every valve and flow meter of brand VTM-UTAM is tested completely for its functionality before being sent out to customers. Pneumatic and hydrostatic testing is conducted on conventional and Programmable Logic Controlled test benches, capable of testing valves up to #2500 pressure rating. We have a specialized test bench to test safety valves up to size 250 mm and 150 bar set pressure.

The Fedrel manufacturing facility within VTM-UTAM boasts of testing and calibration facilities for flow meters from sizes 15mm to 400mm. The instrumentation used on these test benches are calibrated by NABL accredited Test Laboratories. We have a strict calibration program to ensure that all these instruments are re-calibrated regularly.



**DESIGN**



**MANUFACTURING**

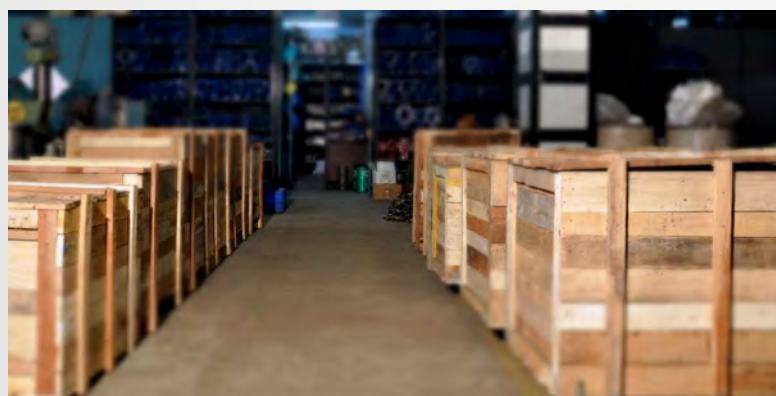
**FOUNDRY**



**TESTING**



**QUALITY CONTROL**



**WAREHOUSING**



# QUALITY CONTROL



## Quality First, Quality Always

Customer satisfaction is what drives us at VTM-UTAM. We know that complete customer satisfaction can only be achieved by adopting a no-compromise approach towards quality.

Hence, we take special care to ensure that our products and manufacturing processes comply with the highest standards of production and relevant specifications. At every stage of manufacturing, we bear the following principles in mind.

### **Quality Assurance:**

VTM-UTAM Valves and Flow Meters are produced using processes and procedures that comply with ISO 9001 and API Spec Q1 standards. We check for compliance with these set standards at every step, right from Procurement of raw materials through to Production, Welding, Assembling, Testing, Packaging and Marking of finished valves. The orders are reviewed by the Engineering and QA (Quality Assurance) departments and special requirements are incorporated in the Work Order issued for each order. The QA (Quality Assurance) department also maintains the calibration and gauge control system as well as trains and qualifies skilled workers to achieve quality workmanship. Copy of these records can be provided on request.

### **Quality Control:**

The Quality Control department deals with all aspects related to quality, from receiving of Raw Materials to Control of Machining, Welding, Testing, Nondestructive Examination, Assembly, Pressure Testing, Cleaning, Painting, and Packaging.

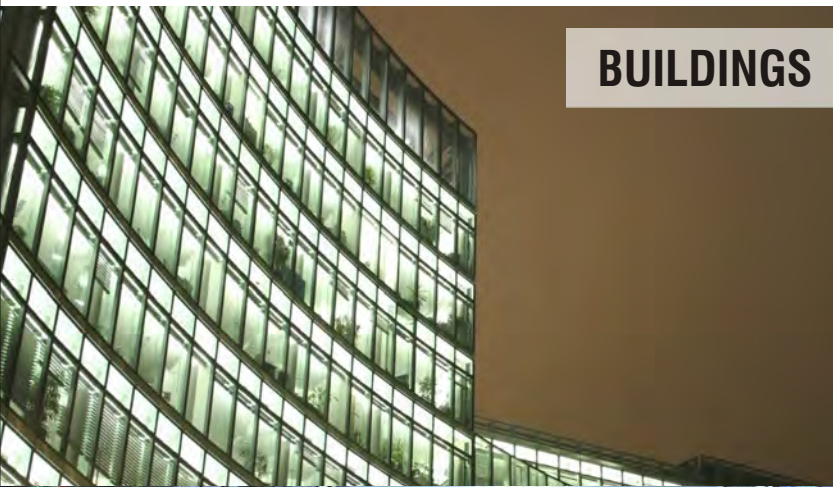
### **Pressure Testing:**

Each Valve is pressure tested in accordance with relevant standards or customer requirements, as applicable.



# INDUSTRIES SERVED

Even the best ideas and the most astutely manufactured products are of no value if they are deemed unfit for commercial use. Hence, at VTM-UTAM it's an everyday practice to ensure that our zest for innovation is met by an eye for creating tangible solutions. Solutions that can meet the requirements of a wide range of industries.



**BUILDINGS**



**POWER, OIL & GAS**



**IT/ITES DATA CENTRES**



**MARINE**



**FOOD PROCESSING**



**WASTE WATER MANAGEMENT**

# BRANDS & PRODUCTS



Since its establishment in 1988, UTAM has diversified into one of the most dependable brands manufacturing Gate, Globe, Check Valves, Boiler Mountings and Safety Valves along with fire fighting valves and accessories.

UTAM has core strengths in Steam Engineering, Process Industries & Plumbing.

## General Product Range

- Gate, Globe, Ball, Check, Safety Valves, Boiler Mountings and Fire Fighting Valves.
- Speciality High precision castings.
- Size Range : 1/4" - 8"
- Medium : Water, Oil, Steam
- Pressure Rating : ANSI #150 - #2500
- Materials : Ductile iron / Cast Steel / Bronze / Brass /



Since its foundation in 2003, VTM has endeavoured to integrate State of the art manufacturing techniques, latest research and development tools and best human resources, to design and manufacture the most dependable Valves.

Today VTM Is a specialised manufacturer of Ball, Balancing, Butterfly, Gate, Check Valves and Strainers, with particular strength in Plumbing, HVAC, fire fighting and most severe applications like petrochemical processing and Oil and Gas services.

## General Product Range

- Ball, Balancing, Butterfly, Gate, Check Valves & strainers.
- Size Range - 1/4" - 36"
- Medium - Water, Oil, Steam & Gas
- Pressure Rating - ANSI #150 - #800 PN 10/16/25/40
- Materials - Ductile iron / Cast







Customer Satisfaction has always been the epicentre of all activities at FEDREL. A dynamic corporate structure with around 100 skilled employees, an in house research and development laboratory and a highly responsive sales and service team makes our customers delighted.

Today FEDREL offers a wide range of Mechanical, Electronic, intelligent and professional Flow Metering Solutions for measuring and transferring fluids, lubricants and fuels. These solutions are not only Robust and Dependable but also Easy to Use.

### General Product Range

- Mechanical, Turbine, oval Gear, Electromagnetic, Ultrasonic, Vortex Steam and BTU meters, Pressure Sensors, Pressure Transmitters, Level Transmitters & Fuel Transfer Solutions
- Fuel transfer stations.
- Size Range - 1/2" to 24"
- Medium - Water, Oil, Steam & Gas
- Pressure Rating - ANSI #150 PN 10/16/25



# HVAC APPLICATIONS

A Balanced Hydronic Network in an HVAC system ensures that all the Flow Circuits receive Chilled/Hot water to meet the designed flow characteristics. This improves the control and delivery of comfort. An efficient valves and fittings circuit ensures a properly balanced HVAC system reducing not only the energy and electrical pumping costs but also the maintenance costs of the capital equipment.

At VTM-UTAM, we have developed products keeping in view the criticality of the HVAC applications. All our products are designed with the Latest 3D Modeling Software, FEA & CFD to ensure that the designed flow characteristics are met with low pressure drops, which helps save on the initial capital equipment costs and also reduces energy and maintenance costs.

VTM-UTAM products have over the years been acknowledged to be amongst the most reliable products for HVAC applications across industries. Our products have a proven track record in HVAC applications not only in Commercial Buildings services but also

**For HVAC applications, we have the following range of products:**



## VTM Resilient Seated Butterfly Valves

40mm to 900mm; Lever / Gear / Motorised  
Cast Iron / Ductile Iron / Cast Steel; PN10/16/25



## VTM Balancing Valves

15mm to 400mm;  
Bronze / Cast Iron / Ductile Iron; PN 16/25



## VTM Check Valves (Dual Plate / Swing Type)

25mm to 400mm;  
Cast Iron / Ductile Iron / Cast Steel; PN16/25



## VTM Strainers (Y/T type)

25mm to 400mm;  
Cast Iron / Ductile Iron / Cast Steel; PN10/16/25



## VTM / UTAM Ball Valves

8mm to 100mm; Forged Brass / Cast Iron / Ductile Iron / Cast Steel;  
PN16/25/Class 150/Class 800



## FEDREL Flow Meter

15mm to 600mm;  
Electromagnetic / Ultrasonic Type



## FEDREL BTU Meter

15mm to 600mm;  
Electromagnetic / Ultrasonic Type; Inline/ Clamp On







# FIRE FIGHTING APPLICATIONS

For fire fighting applications, we have the following range of products:



## UTAM Landing Valve

65mm / 80mm;  
Bronze / Stainless Steel



## UTAM Fire Hydrant Accessories

12mm to 100mm;  
Bronze / Stainless Steel



## VTM Resilient Seated Butterfly Valves

40mm to 900mm; Lever / Gear / Motorised  
Cast Iron / Ductile Iron / Cast Steel; PN10/16/25



## VTM Double Offset Butterfly Valves

40mm to 350mm;  
Cast Iron / Ductile Iron / Cast Steel; PN16/25/40



## VTM Check Valves (Dual Plate / Swing Type)

40mm to 600mm;  
Cast Iron / Ductile Iron / Cast Steel; PN10/16/25



## VTM Strainers

25mm to 400mm;  
Cast Iron / Ductile Iron / Cast Steel; PN10/16/25



## VTM / UTAM Ball Valves

8mm to 100mm; Forged Brass / Cast Iron / Ductile Iron / Cast Steel;  
PN16/25/Class 150/Class 800



## VTM Gate Valves

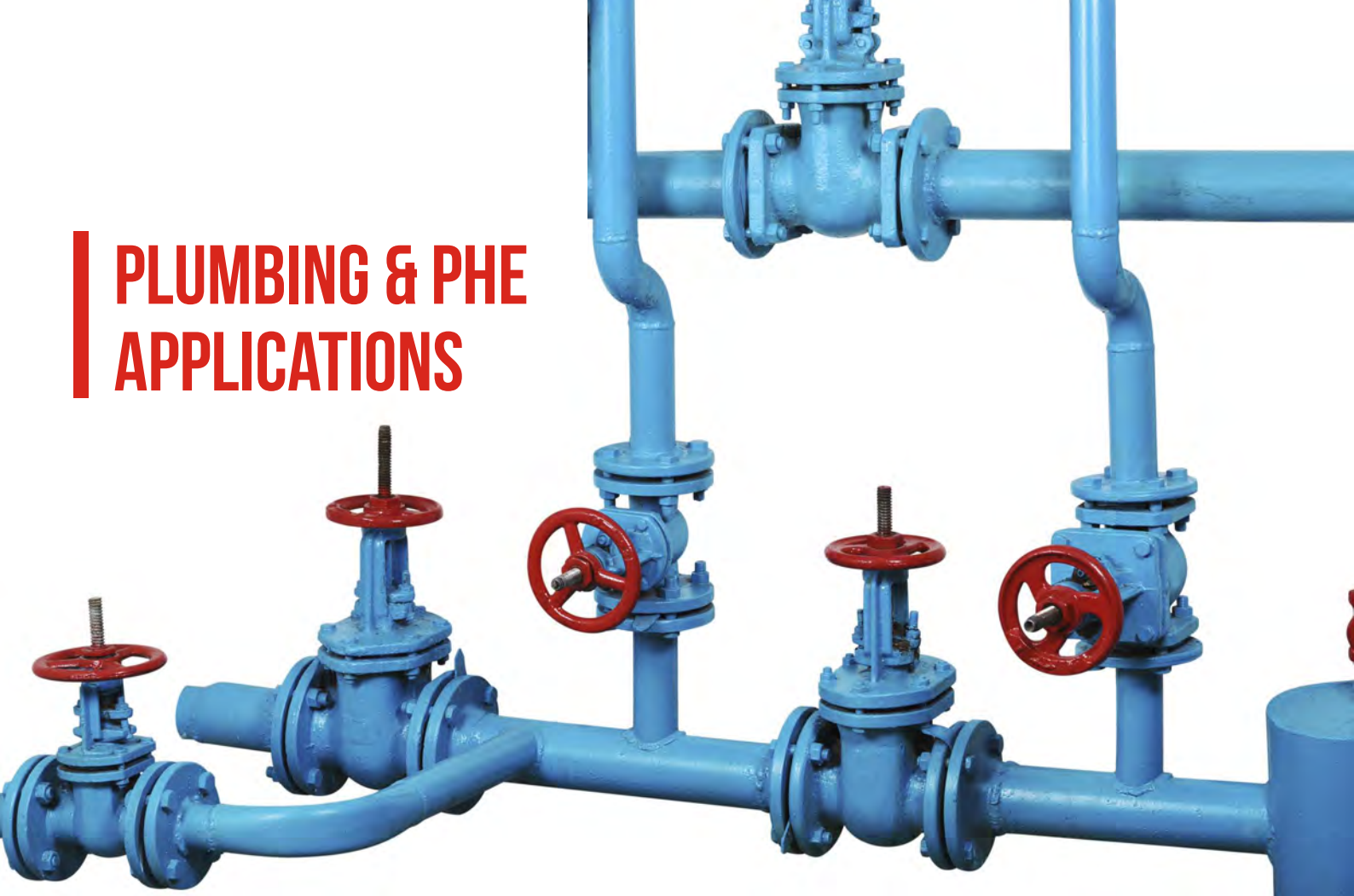
40mm to 300mm;  
Cast Iron / Ductile Iron / Cast Steel; PN16/Class 150

Firemen rely on the robustness of their fire fighting equipments to douse raging fires. Therefore it is important that the products used to extinguish fires are reliable, long-lasting and easy to maintain.

VTM-UTAM supplies top-quality valves for fire fighting and sprinkler systems. Our fire fighting valves - especially our range of Hydrant Valves, Gate Valves, Butterfly Valves and Check Valves - have been specifically designed keeping the needs of this specific application in mind. All our products in this range are designed to meet the most stringent government regulations.

VTM-UTAM's products used for fire-fighting comply with International standards, are designed using the latest modeling software and are geared towards reducing lifetime

# PLUMBING & PHE APPLICATIONS



Gate Valves, Ball Valves, Butterfly Valves Check Valves and Flow Meters are indispensable as far as Plumbing & PHE application is concerned. The Gate Valve is widely used in high pressure applications and in application where a valve is needed for a complete shut down. A Ball/Butterfly Valve can be easily maneuvered to open or shut the flow of water. A Check Valve prevents the system from backflow and water hammer.

In addition to its highly reliable valves range, VTM-UTAM also offers a range of metering solutions under the Fedrel brand. VTM-UTAM Flow Meters are used to monitor the consumption/discharge of water in pipelines. Our range of Single/Multi Jet Water Meters are used for domestic applications and our Woltman/Electromagnetic/Ultrasonic types of Flow Meters are used for bulk water distribution and effluent management systems.

VTM-UTAM's products used in Plumbing & PHE applications reflect the brand's commitment towards conforming to the highest standards of quality and design.

## For Plumbing & PHE applications, we have the following range of products:



### VTM Resilient Seated Butterfly Valves

40mm to 900mm; Lever / Gear / Motorised  
Cast Iron / Ductile Iron / Cast Steel; PN10/16/25



### UTAM Pressure Reducing Valve

15mm to 50mm;  
Bronze; PN16



### VTM-UTAM Check Valves

40mm to 300mm;  
Cast Iron / Ductile Iron / Cast Steel; PN16/25/40



### VTM-UTAM Strainers

25mm to 400mm;  
Bronze / Cast Iron / Ductile Iron / Cast Steel; PN10/16/25



### VTM-UTAM Gate Valves

8mm to 300mm; Bronze/Cast Iron / Ductile Iron /  
Cast Steel; Pn16/ Class 150



### VTM-UTAM Ball Valves

8mm to 100mm; Forged Brass / Cast Iron /  
Ductile Iron / Cast Steel; PN16/25/ Class 150/Class 800



### FEDREL Water Meters; Class B

15mm to 400mm  
Brass / Cast Iron; Single / Multijet.



### FEDREL Flow Meter

15mm to 600mm;  
Electromagnetic / Ultrasonic Type



# OUR HISTORY

A LEGACY OF EXCELLENCE, SPREAD OVER 27 YEARS



**1988**

Manufacturing goes up a level;  
new facility with modern machines and testing set..

**1996**

Diversifies into ferrous valves. Gets IBR certification.



**2003**

Flow meter brand FEDREL is born

**2008**

FEDREL launches complete range of Woltman type flow meters

**2011**

Begins india operations for organized projects.  
Foundry certified to Pressure Equipment Directive  
( European certification )

**2014**

API certification further strengthens position  
in the oil & gas industry.

Incepted as UTAM to manufacture bronze and copper alloys.

**1995**

Meets ISO standards.

**1998**



VTM valves comes into force.  
Ventures into exports with distribution network in Middle East.

**2007**



First major supply of marine valves to shipping companies.  
Tie-ups linked with global valve brands for contract manufacturing.

**2009**

Electromagnetic, Ultrasonic and Vortex flow meters  
launches under FEDREL.

**2013**



Commences manufacturing of valves using super alloys  
like AL-BRONZE, NI-AL-BZ ETC.  
Balancing valves and BTU meters launched  
to offer complete products range for HVAC applications.

**2015**



# CERTIFICATIONS

Since 1988, we at VTM,-UTAM have attempted to raise ourselves to the most premier levels of excellence. This includes conforming to stringent quality controls, meeting the highest standards of reliability and pitting ourselves against the globally accepted principles of customer satisfaction.

The following certifications bestowed upon us, is an acknowledgment of our efforts.



# CUSTOMERS

We pride ourselves on keeping our customers' needs at the centre of everything we do. The result is the following set of delighted customer base that continues to cheer us on, every single day.





# NOTES

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## GLOBAL PRESENCE

Get a detailed snapshot of our global footprint and how we are helping the cause of industries and our clients, worldwide.

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## Valves & Metering Solutions

HVAC | Firefighting | Plumbing & PHE  
Industrial Processes | Marine | Power | Oil & Gas