

Your Partner for Quality,  
Timeliness & Cost Effective solution



We offer complete solution  
to flow measurement  
of Liquids, Vapours  
and gases.

## About IA Flow Elements

About us In the year 1978, Mr. R. Balaji, a graduate from the prestigious Madras Institute of Technology, Chennai, established Industrial Ancillaries, specializing in the design, manufacture and supply of primary flow elements. IA was nursed into a reliable source of supply and gained reputation in servicing flow measurement requirements be it liquid, vapour or gas media.

Later in 2006, IA Flow Elements Private Limited was formed by forging relationships with overseas partners Trust Technical Services Co. and later with RJ Technical Resources, UAE. The company has seen considerable growth servicing MENA, European and Far East markets.

IA Flow Elements continually seeks to meet global market demand with reliable, cost effective and industry accepted solutions to flow metering requirements.



## Our Capabilities

We design and manufacture all types of flow elements and select instrumentation hardware and accessories such as thermowells, Condensate Pots, Instrumentation valves.

Sizing of flow elements is done using the software "The Flow Consultant" by R.W. Miller & Associates, which is accepted by all leading consultants and clients globally.

International standards are followed in the design, material selection and manufacture.

Design: ISO 5167, ISA, API, AGA3, ASME

Materials & Manufacture: ANSI, ASME, ASTM, ASA

Customer specified procedures and standards are also adapted as and when required

## Range of products

### Orifice Plates & Orifice Assemblies:

#### Types

- Concentric Square Edge
- Eccentric
- Quadrant Edge
- Segmental and
- Conical Entrance

#### Sizes

25 to 1250 mm NB



### Restriction Orifices



#### Types

Single  
Multistage

#### Sizes

25 to 1250 mm NB

### Flow Nozzles

#### Types

ISA 1932  
ASME Long Radius

#### Sizes

80 to 800 mm NB



## Venturi Tube

### Types

- Long pattern (5 to 7 degree Exit Cone)
- Short Pattern (15 to 17 degree Exit Cone)



### Sizes

- Cast Iron upto 1000 mm NB
- MS with SS or Phosphor Bronze lining upto 1800 mm NB
- FRP from 80 to 1000 mm NB
- SS / HIC compliant carbon steel upto 1800 mm NB

## Meter Run Sections

### Types

- With honed Flow section
- Without honed Flow section

### Sizes

- To suit Primary Element size

## Averaging Pitot Tubes



### Types

- In line
- Insertion
- Retraction (Hot Tap)

### Sizes

- 25 mm to 3600 mm NB

## Thermowells

### Types

- Drilled Barstock
- Tubular
- Screwed
- Flanged
- With and without lag length



### Sizes

- Overall length Upto 1000 mm

## Condensate Pots



### Types

- Single Pair of ports
- Double Pair of ports

### Sizes

- Diameter 2, 3, 4 & 6 inch
- Length of pot to suit volume requirement.



## Instrumentation hardware

Orifice flanges, Instrumentation valves and fittings.

## Materials

Standard materials used are carbon steel 304 & 316 SS for all products. But we have also developed expertise in using special and exotic materials in the manufacture of our products. A short list is as below.

Duplex & Super Duplex SS  
Inconel, Monel,  
Hastelloy, Titanium..

## Manufacturing & Testing Facilities

Well laid out factory with over 400 sq. mtr., covered area, has a fully equipped shop with machinery required for manufacture flow elements from small to very large sizes.

## Machinery

Lathe machines with bed length upto 15feet  
Drilling and tapping machines  
Plate cutters, grinders  
CNC Lathe  
Milling machine with DRO  
ARC and TIG welding machines  
Furnaces for electrode heating.

## Test Equipement

High quality gauges, vernier calipers, surface roughness gauges necessary for accurate measurement and control of dimensions and finish are used.

Hydraulic pressure testing equipment for pressures upto 1300 bar is available.

The measuring aids are periodically calibrated at approved test centers.


## Quality Control

In-Process quality control and finished product testing is carried out by engineers qualified in Production and Testing in accordance with Quality Manual certified by BVQI, to ISO 9001:2008. Testing of materials and welding are carried out at NABL certified laboratories.

## Types of industries served

Oil & Gas  
Petro chemical  
Paper & Pulp  
Chemicals

Cement  
Metals & Minerals  
Water supply  
Pipeline



## Our Customers

Having served the entire cross section of process industries with highest quality products at the best cost and time has helped us establish cast clientele both in the domestic and global market. A partial list of customers is shown below.

### Domestic

ABB LIMITED, CHENNAI  
ANSALDOCALDAIE BOILERS INDIA PVT. LTD, CHENNAI  
AP RAYONS LIMITED, KAMALAPURAM  
AQUA TECH, PUNE  
AQUA DESIGNS, CHENNAI  
BALLALPUR INDUSTRIES LIMITED, HARYANA & MAHARASHTRA  
BHARATH HEAVY ELECTRICALS LIMITED, TRICHY  
BHARATH PETROLEUM CORPORATION LIMITED, COCHIN  
BLUE BELLS CONTROL SYSTEMS PVT. LTD, CHENNAI  
BLUE STAR LIMITED, CHENNAI  
CHEMICALS & PLASTICS INDIA LIMITED, CHENNAI & METTUR  
CHEMIN CONTROLS PVT. PONDICHERRY  
CHENNAI PETROLEUM CORPORATION LTD, CHENNAI  
ELECTRONIC DATA SOLUTIONS, CHENNAI  
ELOF HANSSON, CHENNAI  
ENGINEERS INDIA LIMITED, CHENNAI  
FEDO, COCHIN  
FICS AUTOMATION PVT. LTD, CHENNAI  
FUTURA POLYESTERS, CHENNAI  
GUJARAT NARMADA VALLEY FERTILISERSCO.LIMITED, BHARUCH, GUJARAT  
HI-TECH CARBON, CHENNAI  
HJI INDUSTRIES – ORIENT PAPER MILLS LIMITED, AMLAI  
HYPERIONIT PVT. LTD CHENNAI  
DCW LIMITED, SAHUPURAM  
INDIAN OIL CORPORATION LIMITED, BARAUNI  
JSW LIMITED, SALEM  
KERALA MINERALS & METALS LIMITED, KOLLAM  
SPIC HEAVY CHEMICALS LIMITED, CHENNAI  
LARSEN & TOUBRO LIMITED, MUMBAI, BARODA, CHENNAI, DELHI & KOLKATTA  
L&T CHIYODA, BARODA  
MADRAS FERTILISERS LIMITED, CHENNAI  
MANALI PETROCHEMICALS LIMITED, CHENNAI  
MELSS AUTOMATION LIMITED, CHENNAI  
MSPL LIMITED, KARNATAKA  
PHILLIPS CARBON BLACK, KOCHI  
PONNI SUGARS LIMITED, ERODE





PUNJ LLOYD LIMITED, NEW DELHI  
EMERSON PROCESS, CHENNAI  
RANK CONTROL & INSTRUMENTS P LTD, CHENNAI  
PLANT CONTROL & AUTOMATION P LIMITED, CHENNAI  
SHIRAM EPC LTD, CHENNAI  
SHRI. RENUGA TEXTILES LIMITED, THENI  
SAKTHI SUGARS LIMITED, ERODE  
SESHASAYEE PAPER & BOARDS LIMITED, ERODE & CHENNAI  
TAMIL NADU NEWS PRINT AND PAPERS LIMITED, CHENNAI & KAGITHAPURAM  
TAMIL NADU PETRO PRODUCTS LIMITED, CHENNAI  
TATA HONEYWELL LIMITED, CHENNAI & PUNE  
TERRA ENERGY LIMITED, KUMBAKONAM  
THERMAX LIMITED, PUNE  
UJWAL PRODUCTS & SERVICES (P) LTD, BANGALORE  
VIRTUAL INSTRUMENTS, CHENNAI

## International

ABB LTD UAE  
AL-HANA UNITED GENERAL TRADE & CONT. CO, KUWAIT  
A.A.AL-RASHEDSONS.CO. KUWAIT  
JUBILEE ENGINEERING & TECHNICAL SERVICES, OMAN  
OMAN OIL INDUSTRIES & SERVICES CO. ,OMAN  
OMEGA ENGINEERING, UAE  
PCIC, KUWAIT  
PETROSERVE, QATAR  
FELCA INTERNATIONAL CORPORATION, TAIWAN  
FMC TECHNOLOGIES, UK  
ADNOC GROUP-UAE  
QATAR PETROLEUM, QATAR  
DOLPHIN ENERGY, USA  
PETROLEUM DEVELOPMENT OF OMAN, OMAN  
OCCIDENTAL PETROLEUM CORPORATION, OMAN  
MARWIN SOLUTION COMPANY LTD., THAILAND  
PURUSHOTTAM KANJI TRADING CO LLC, OMAN  
PUNJILLOYD, ABUDHABI, UAE.  
ALKOT INDUSTRIES PROJECT CO., KUWAIT  
YOKOGAWA, QATAR  
GASAL, QATAR  
EXCEL CONSORTIUM (S) PTE LTD, SINGAPORE  
ADCO, ABU DHABI  
PETROSERVE CONTROLS & COMMUNICATIONS, QATAR  
VANGUARD ENGINEERING & OILFIELD SERVICE CO LLC, OMAN  
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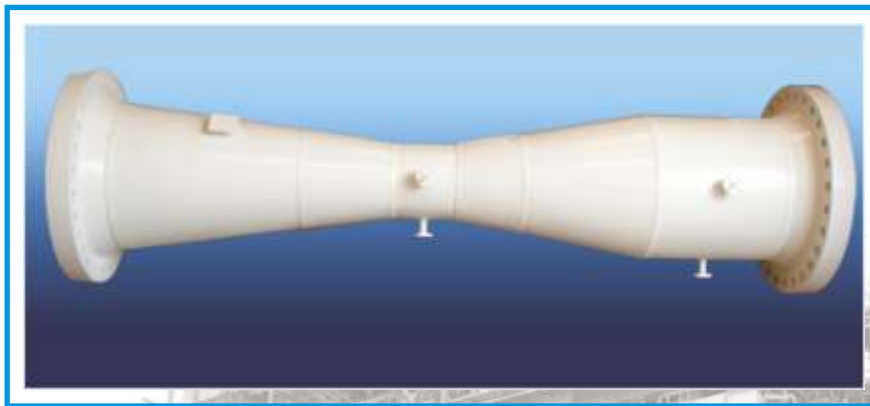
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Size : 42 inch dia; 7.4 meter long fabricated Venturi Meter

