

1980

The city of Jalandhar, Punjab.

AMAN ENGINEERING WORKS

Were born

**Committed to last drop of Water,
For Excellence,
For Customer Satisfaction**



KRANTI WATER METERS

were introduced

- With Failsafe Accuracy
- Customized to Local Conditions
- Robust & innovative Design

KRANTI®

WATER METER

AN ISO 9001:2008 & 14001:2004 CO.



TIME LINE

- 1966** Started operations with foundry of Brass Casting under the name of B.M. Sharma Molding Works.
- 1971** Manufacturing of Hand Pump Parts.
- 1980** Aman Engineering Works was established for manufacturing of “KRANTI” Water Meters.
- 1985** Got the first Govt. Contract from BMC for Water Meters.
- 1989** Production Capacity Increased to 50000 Water Meters Annually.
- 1995** Introduced fully automatic injection molding machines for manufacturing of plastic parts.
- 2000** Production Capacity Increased to 200000 Water Meters Annually.
- 2007** Shifted to new premises with an area of 12000 Sq. Meter.
- 2008** Introduced fully Automatic CNC machines for complete process.
- 2008** Got Quality Excellence Award.
- 2010** Production Capacity increased to 500000 Water Meters Annually.
- 2011** Introduced “KRANTI” brand Industrial Valves & Boiler Mountings.
- 2014** Introduced “KFLOW” brand MID Certified IP68 Water Meters with size range 15mm to 500mm.
- 2016** Legacy Continues

FACTORY AT JALANDHAR (PUNJAB)

KRANTI[®]
WATER METER
AN ISO 9001:2008 & 14001:2004 CO.



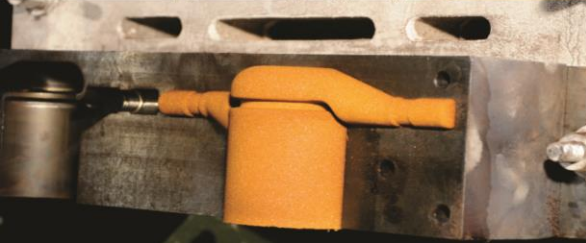
APPROVALS

1. BUREAU OF INDIAN STANDARDS
2. FLUID CONTROL RESEARCH INSTITUTE, KERALA.
3. SITARC, COIMBATORE
4. NATIONAL TEST HOUSE, GHAZIABAD
5. NATIONAL PHYSICAL LABORATORY, DELHI
6. KARNATAKA WATER SUPPLY SEWERAGE & DRAINAGE BOARD
7. KARNATAKA URBAN INFRASTRUCTURE DEVELOPMENT & FINANCE CORP. LIMITED
8. MUNICIPAL CORPORATION OF GREATER MUMBAI
9. MAHARASHTRA JEEVAN PRADHIKARAN
10. CIDCO
11. DELHI JAL BOARD
12. MUNICIPAL CORPORATION CHANDIGARH
13. HARYANA WATER SUPPLY & SEWERAGE BOARD
14. PUNJAB WATER SUPPLY & SEWERAGE BOARD



PROCESS

DESIGN & CASTING



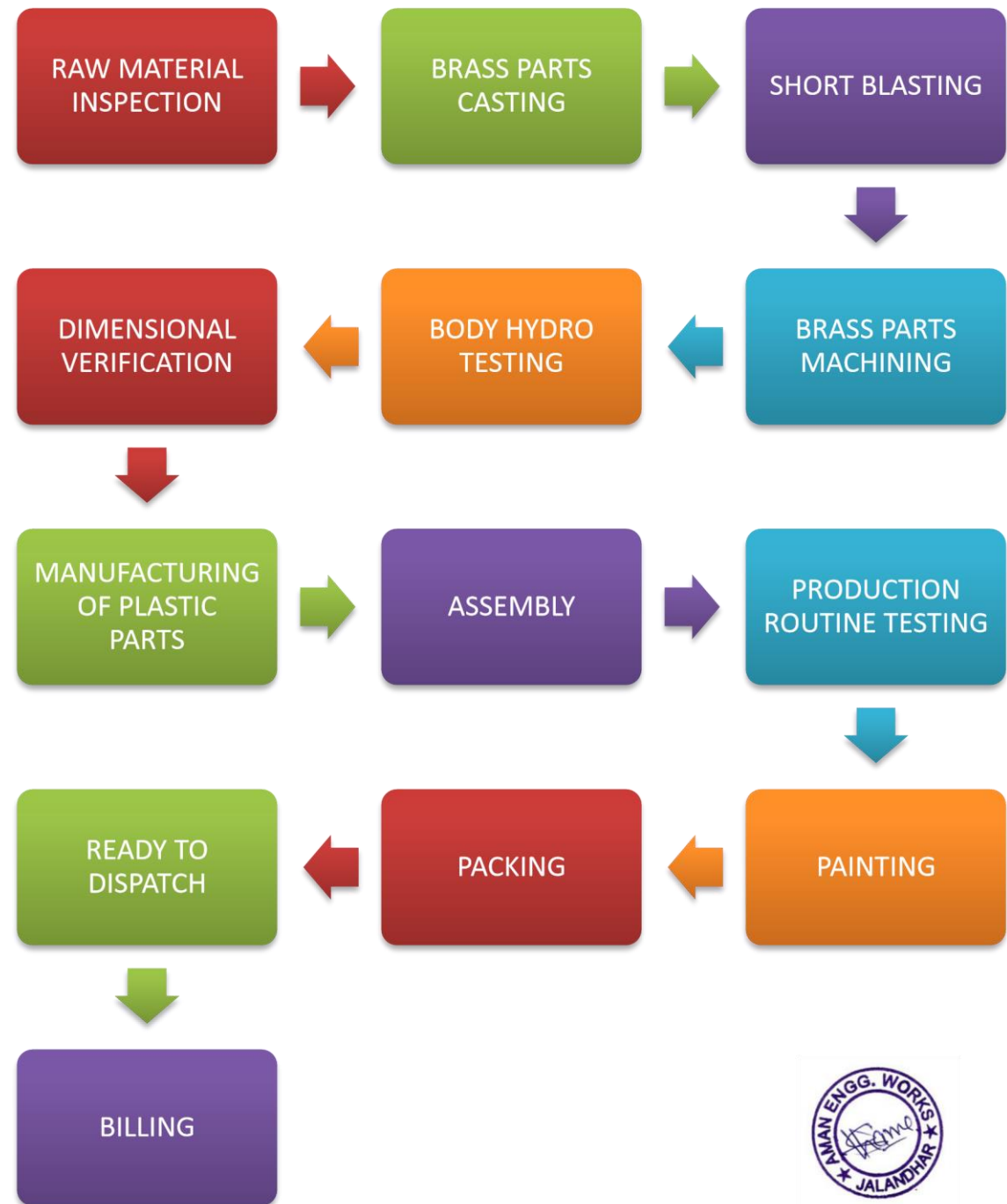
MACHINING



PLASTIC MOLDING & ASSEMBLY TESTING & DISPATCH

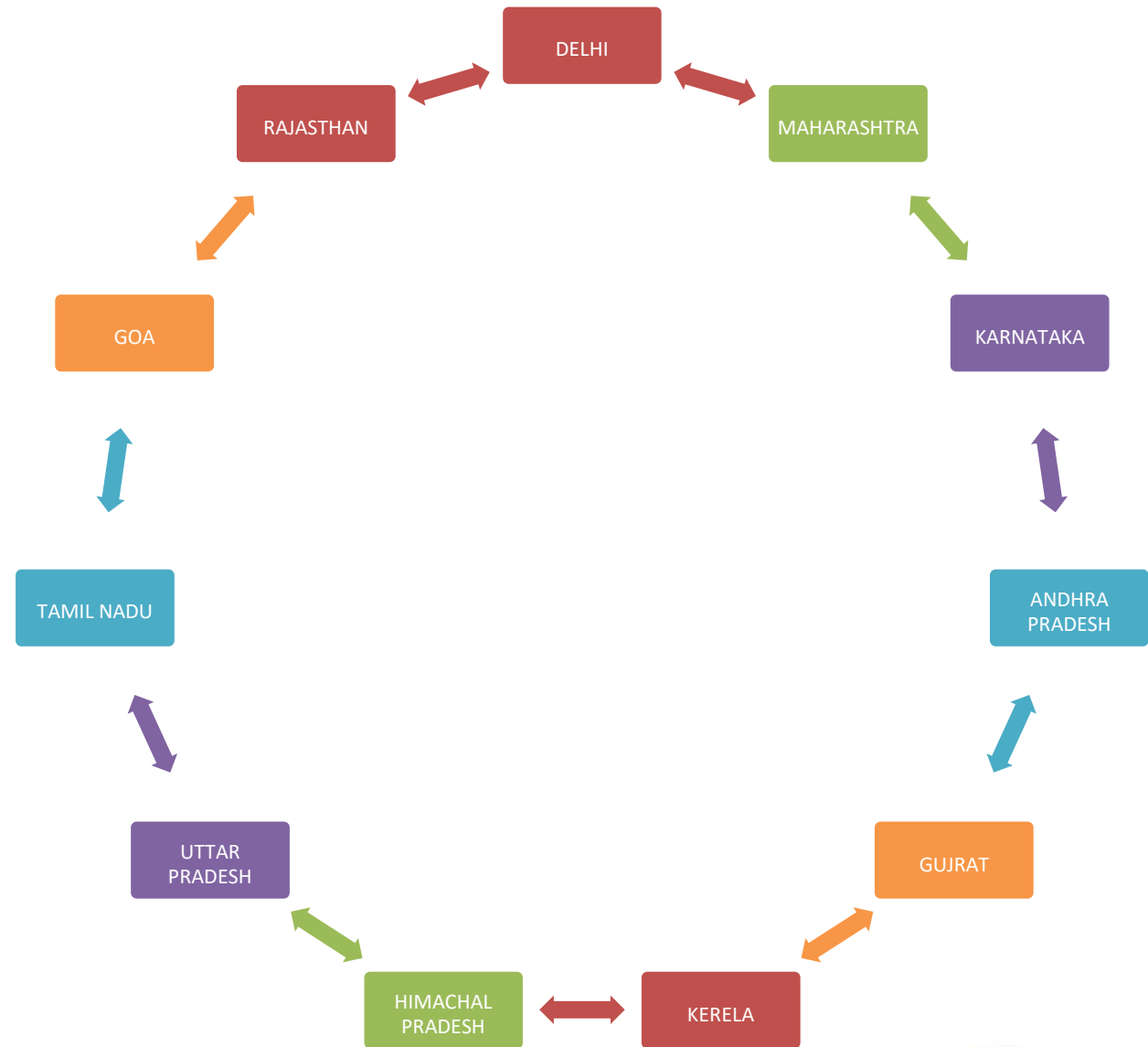
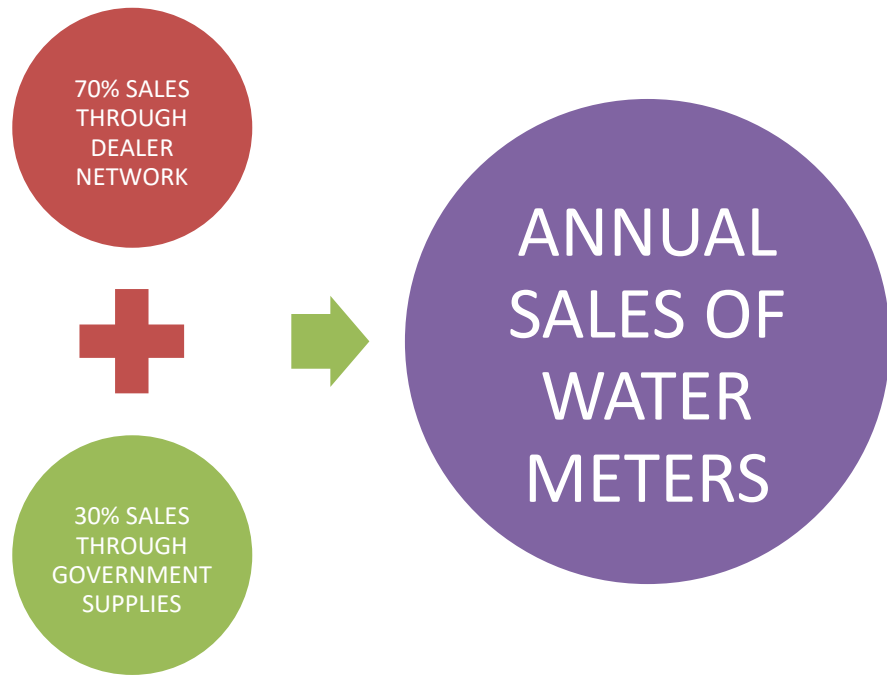


PRODUCTION PROCESS

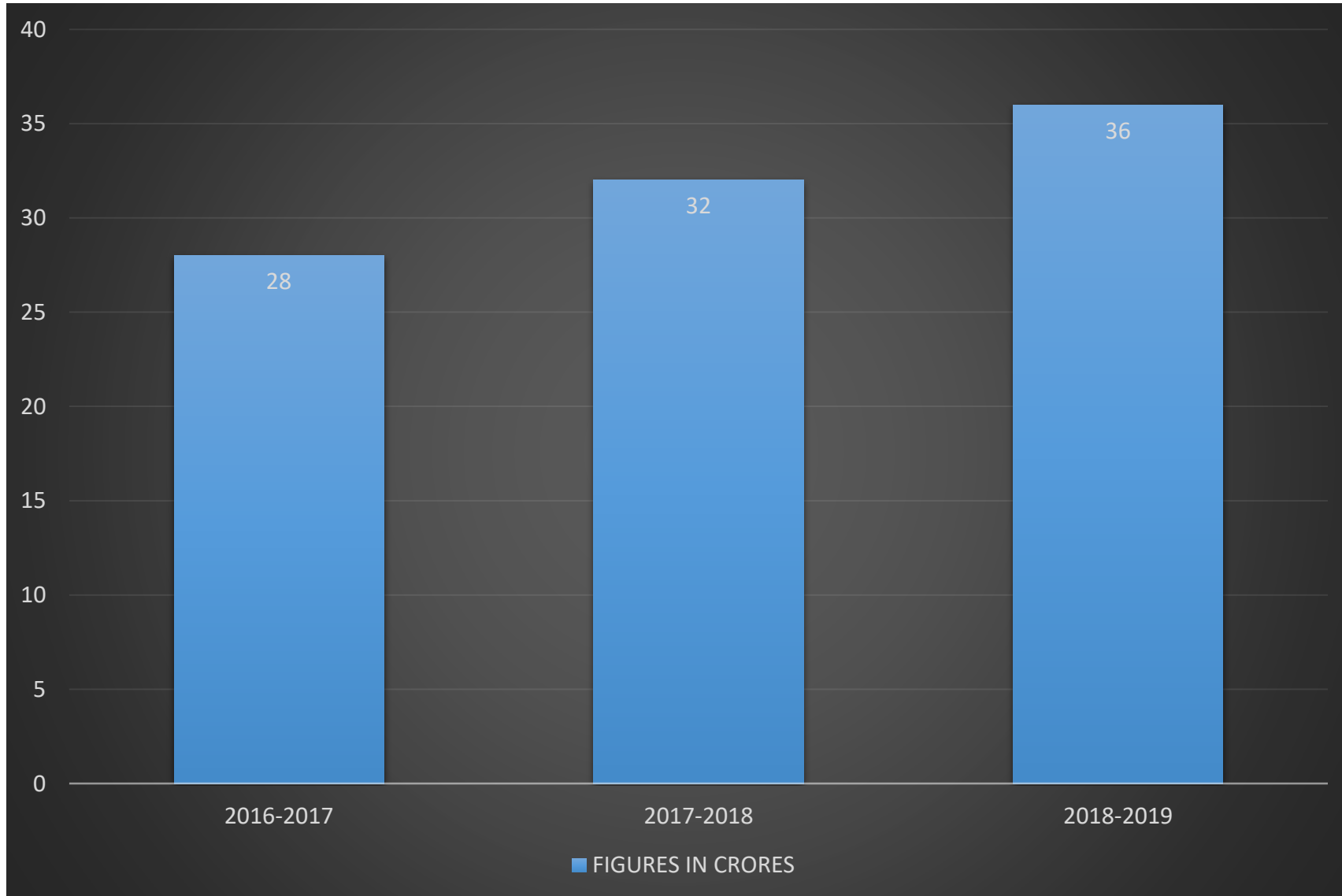


SALES

DEALER NETWORK



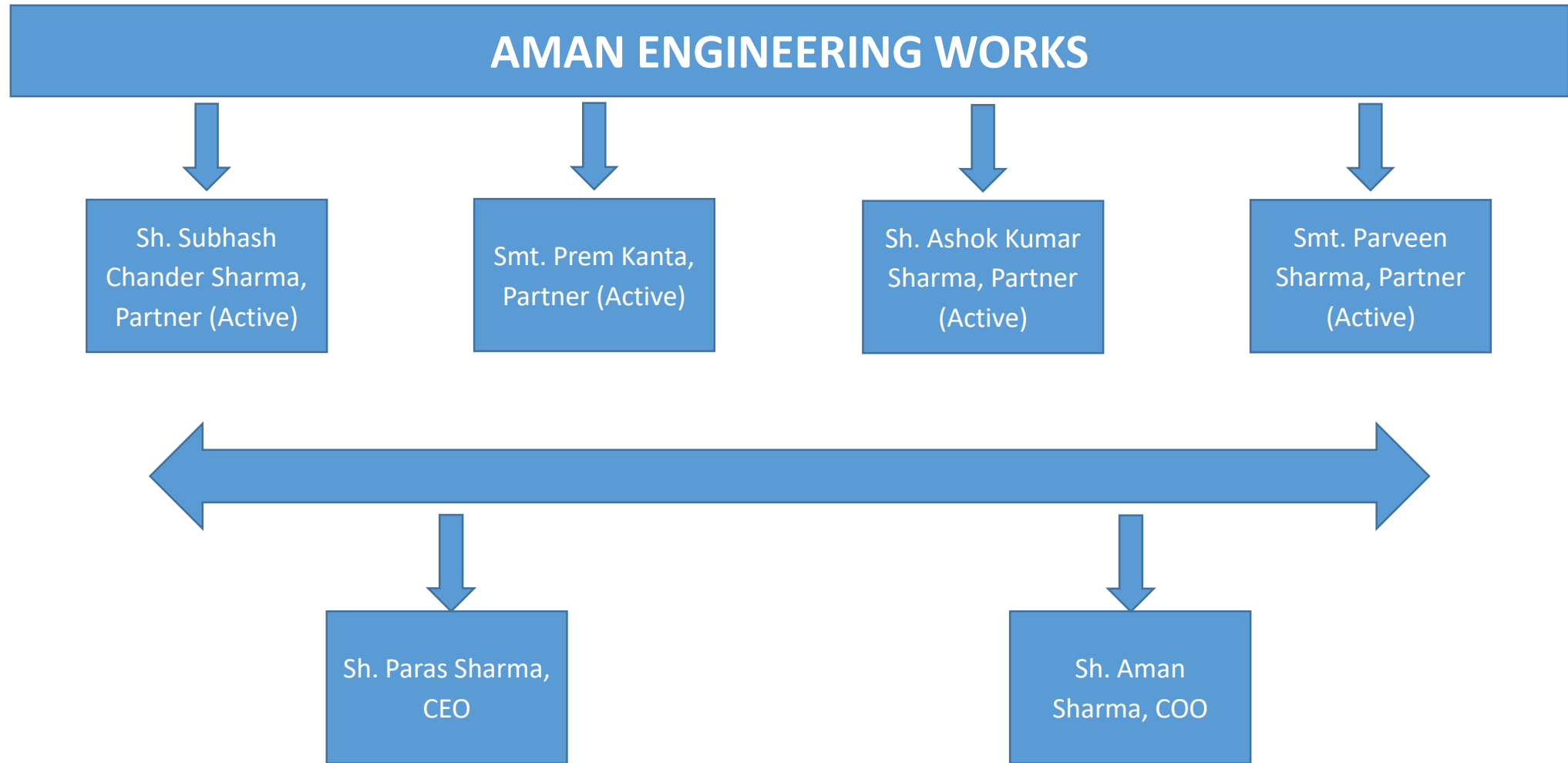
ANNUAL SALE



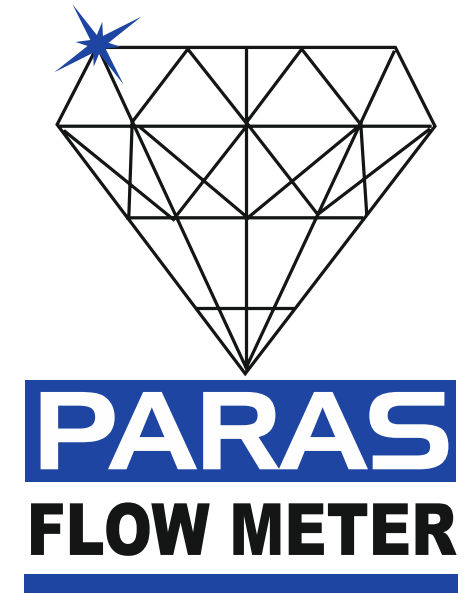
MANUFACTURING FACILITY DETAILS

- 1. CASTING:** We have our own Brass Casting Workshop in our premises, the only Indian Water Meters manufacturer having this in house facility. We do gravity die casting and have 4 furnaces for the same. Our monthly capacity is to cast approximately 50 Tons of Brass. Our basis raw material is Brass Ingots as per IS 1264 DCB-2.
- 2. MACHINING:** We have 6 fully automatic CNC machines, 4 Special purpose machines, 40 lathe machines and 8 Drilling machines for machining of all kind of Water meter Brass components.
- 3. INJECTION MOLDING:** We have 6 fully automatic Plastic injection molding machines of Windsor make & Haitian make, 1 Semi-Automatic Injection Molding Machine and 5 hand molding machines for manufacturing of all kinds of Plastic components of water meters. This plant runs 24x7 throughout the year.
- 4. TESTING:** We have in total 18 test benches with a capacity of test approximately 50000 pcs a month. Out of 18 test benches 5 are series test benches and 13 are single test benches.
- 5. POWDER COATING / PAINTING:** We have our own Powder coating plant for epoxy painting of Water Meters bodies.
- 6. ASSEMBLY:** We have 8 different assembly work stations for assembly of different kinds & sizes of Water Meters.
- 7. DISPATCH:** A unique ID is engraved on all our Water Meters with automatic numbering machine in our dispatch section. After complete packing the material is dispatched from this section.

ORGANIZATION STRUCTURE

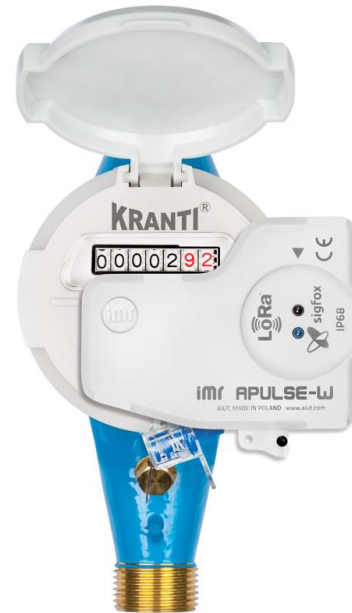


BRANDS



DOMESTIC TYPE WATER METERS

KRANTI[®]
WATER METER
AN ISO 9001:2008 & 14001:2004 CO.



IS 779:1994



CLASS-A

CM/L-1298460

CLASS-A
MULTI-JET WATER METERS



Model: KAM-G

Features:

- Multi Jet, Mechanical Drive
- Register with 7 rollers with 1 pointer
- Cost Effective – High Reliability
- Innovative Design with Wiper for clear reading
- As per IS 779:1994 Standards
- Size Range 15 MM to 50 MM

IS 779:1994



CLASS-B

CM/L-1298460

CLASS-B
SINGLE-JET WATER METERS



Model: KBS

Features:

- Single Jet, Magnetic Transmission
- Compact Design & Light Weight
- Cost Effective – High Performance
- Register with 7 rollers & 2 pointers
- As per IS 779:1994 & ISO 4064 Standards
- Size Range 15 MM

IS 779:1994



CLASS-B

CM/L-1298460

CLASS-B

MULTI-JET WATER METERS

KRANTI[®]
WATER METER

AN ISO 9001:2008 & 14001:2004 CO.

Features:

- Multi Jet, Magnetic Transmission
- Cost Effective – High Performance
- Register with 7 rollers & 2 pointers
- As per IS 779:1994 & ISO 4064 Standards
- Size Range 15 MM to 20 MM
- FCRI Passed performance test for 15mm
- Sitarc Passed Life Cycle Test for 15mm



Model: KBM-G



Model: KBM

IS 779:1994



CLASS-B

CM/L-1298460

CLASS-B
MULTI-JETWATER METERS



Model: BESTO

Features:

- Multi Jet, Magnetic Transmission
- State of art design with German Technology
- Register with 5 rollers & 4 pointers
- Glass window for best visibility
- As per IS 779:1994 & ISO 4064 Standards
- Size Range 15 MM to 50 MM
- FCRI Passed Performance Test for 15 mm.

IS 779:1994



CLASS-B

CM/L-1298460

CLASS-B

MULTI-JET IP-68 WATER METERS



Model: KBM-G1

Features:

- Multi Jet, Magnetic Transmission
- Hermetically Sealed Register with IP 68 Protection class
- Register with 5 rollers & 4 pointers
- Glass window for best visibility
- As per IS 779:1994 & ISO 4064 Standards
- Size Range 15 MM to 20 MM
- Double Filter Protection against external impurities

IS 779:1994



CLASS-B

CM/L-1298460

CLASS-B

MULTI-JET IP-68 WATER METERS



Model: ULTRA-G



Features:

- Multi Jet, Magnetic Transmission
- Copper Can Register with protection category of IP 68
- Register with 7 rollers & 2 pointers
- As per IS 779:1994 & ISO 4064 Standards
- Size Range 15 MM to 20 MM
- FCRI Passed Performance Test for 15mm
- FCRI Passed Life Cycle Test for 15mm under Model Approval Program

IS 779:1994



CLASS-B

CM/L-1298460

CLASS-B

MULTI-JET IP-68 WATER METERS



Features:

- Multi Jet, Magnetic Transmission
- Hermetically Sealed Register with protection category of IP 68
- Register with 5 rollers & 4 pointers
- As per IS 779:1994 & ISO 4064 Standards
- Size Range 15 MM
- FCRI Passed Performance Test for 15mm
- FCRI Passed Life Cycle Test for 15mm

Model: KBM-G+



CLASS-C
VOLUMETRIC ROTARY PISTON TYPE
WATER METERS

KRANTI[®]
WATER METER
AN ISO 9001:2008 & 14001:2004 CO.



Model: KRP-C

Features:

- Ensure high sensitivity
- Accurate Registration
- Liquid Sealed Register
- Low Starting Flow Rate
- Internal Non return Valve
- As per ISO 4064 Standards
- Size Range 15 MM to 20 MM



AMR / AMI

SMART WATER METERS

IS 779:1994



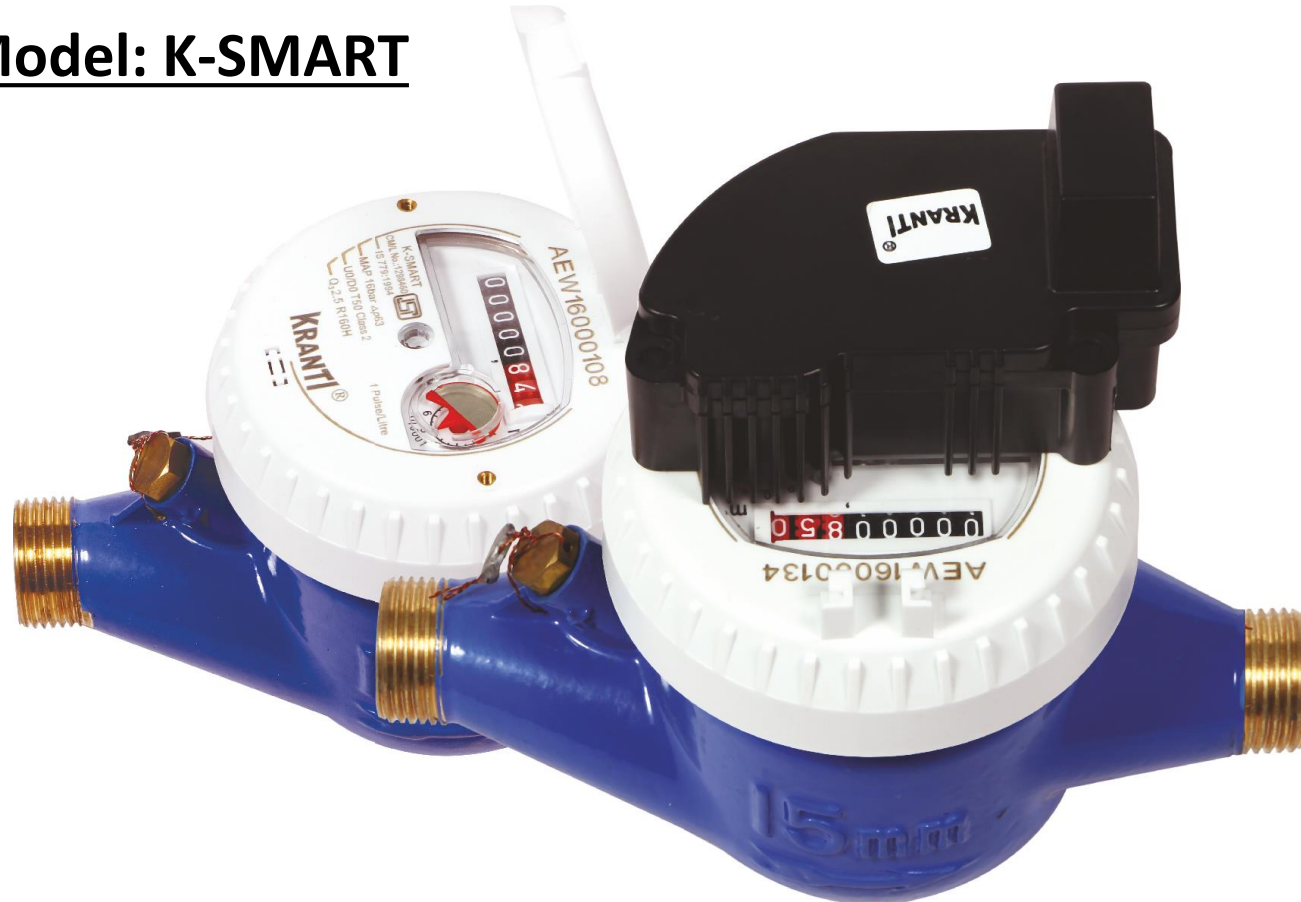
CLASS-B

CM/L-1298460

AMR READY RF BASED
CLASS-B MULTI JET MAGNETIC DRIVE
WATER METERS



Model: K-SMART



Features:

- AMR Ready / AMR (Wireless)
- Multi Jet, Magnetic Transmission
- Hermetically Sealed Register with protection category of IP 68
- Register with 7 rollers & 1 pointer
- As per IS 779:1994 & ISO 4064 Standards
- Size Range 15 MM to 50 MM
- FCRI Passed Performance Test for 15mm
- FCRI Passed Life Cycle Test for 15mm under Model Approval Program

AMR READY RF BASED CLASS-B MULTI JET MAGNETIC DRIVE WATER METERS

Model: K-SMART



RESIDENTIAL MULTI-JET WATER METER - DN15 TO DN50

The **K-SMART** is an excellent multi-jet turbine water meter, ready for Automatic Meter Reading (AMR).

Following the increasing need of automation in the metering application, K-SMART has been developed in order to provide very reliable and durable metrology performance combined with fully AMR capabilities.

Features

- ▶ Pre-equipped
- ▶ Anti-fraud register
- ▶ Reliability
- ▶ Robustness

Main Characteristics

- ▶ Magnetic Transmission
- ▶ Maximum Water Temperature 45°C
- ▶ High Quality Engineering Materials
- ▶ 355° Orientable register
- ▶ High Resistance to water Impurities
- ▶ High performance with long term reliability

Legibility

The Display on 8 drums (5 for m³, 3 for liters) & 1 pointer ensures perfect readability. The lowest resolution is 0.05 litres. The dial has a central disc, whose rotation indicates the passage of water.

The K-SMART Water meter operates in horizontal position and its dry dial can rotate up to 355°. The Dial can therefore be easily read under all conditions of use.

Standard

- ▶ IS 779 : 1994
- ▶ ISO 4064 : 2005

Anti Fraud Features

- ▶ Copper Can or plastic can sealed register
- ▶ Protection Against magnetic tampering

Accuracy

The special design of this meter combined with the precision of the plastic parts injected by own injection department results in an accuracy curve over passing the requirements for the ISO 4064 standard.

Technology

The multi-jet water meter is used both in the domestic and the industrial field. The principle of operation is to force the passage of the inlet water flow through a series of ducts open in a capsule, called distributor, containing the turbine. The entrance of the water through the ducts generates a series of symmetrical jets that impact the turbine keeping it in perfect balance.

The Dry Dial Counter with clockwise movement is separated from the flow of water. In this case the transmission gears to watch takes place via magnetic coupling. It results in durable & reliable metrology performance.

Communication

- ▶ Pre-equipped register that enables the use of communicating modules
- ▶ At anytime the modules can be easily mounted, making it a powerful communicating device for AMR Systems
- ▶ Radio walk-by systems
- ▶ Radio fixed data collection
- ▶ M-bus wired systems

Reliability

All the gears are situated in the dry part of the meter (totalizer), which removes any risk of blockage due to suspended matter in the water.

AMR READY RF BASED CLASS-B MULTI JET MAGNETIC DRIVE WATER METERS

Model: K-SMART



ADAPTABILITY

The **K-SMART** water meter can be equipped with Modules, becoming a remote reading interface.

Benefits & Characteristics

- ▶ Fast Reading
- ▶ Leakage Management
- ▶ Reverse Flow Detection
- ▶ Data Protection Management
- ▶ External Damage Alarm
- ▶ Magnetic Disturbance Alarm
- ▶ Bill Generation
- ▶ Reliability



MODULE 1
Pulse Output

MODULE 2
M-BUS

MODULE 3
Radio Frequency



IS 779:1994

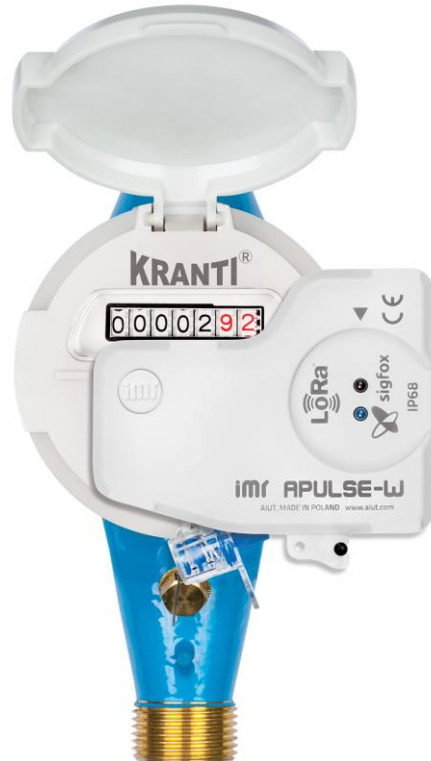


CLASS-B

CM/L-1298460

IoT based AMI WATER METERS

Model: ULTRA-G Cyble



Features:

- AMI Ready / AMI (Wireless)
- IoT Connectivity
- Transmits data via Sigfox or LoraWan
- Low Power Radio Communication
- Uni or Bi-Directional Radio Transmission
- High Capacity data storage
- On line Alarms
- 10 Years Battery Life
- Suitable for flooded pits
- Data Encryption
- External Antenna enhancing range
- Installed Directly on water meters

SITA installation and service management for fitter

- Remote readout collection from telemetry devices installed on site,
- Intuitive installation and uninstallation of telemetric devices,
- Easy of use – user-friendly interface allows flawless operation and easy diagnostics,
- Security – access to particular functionalities of the applications is protected with passwords and permissions.



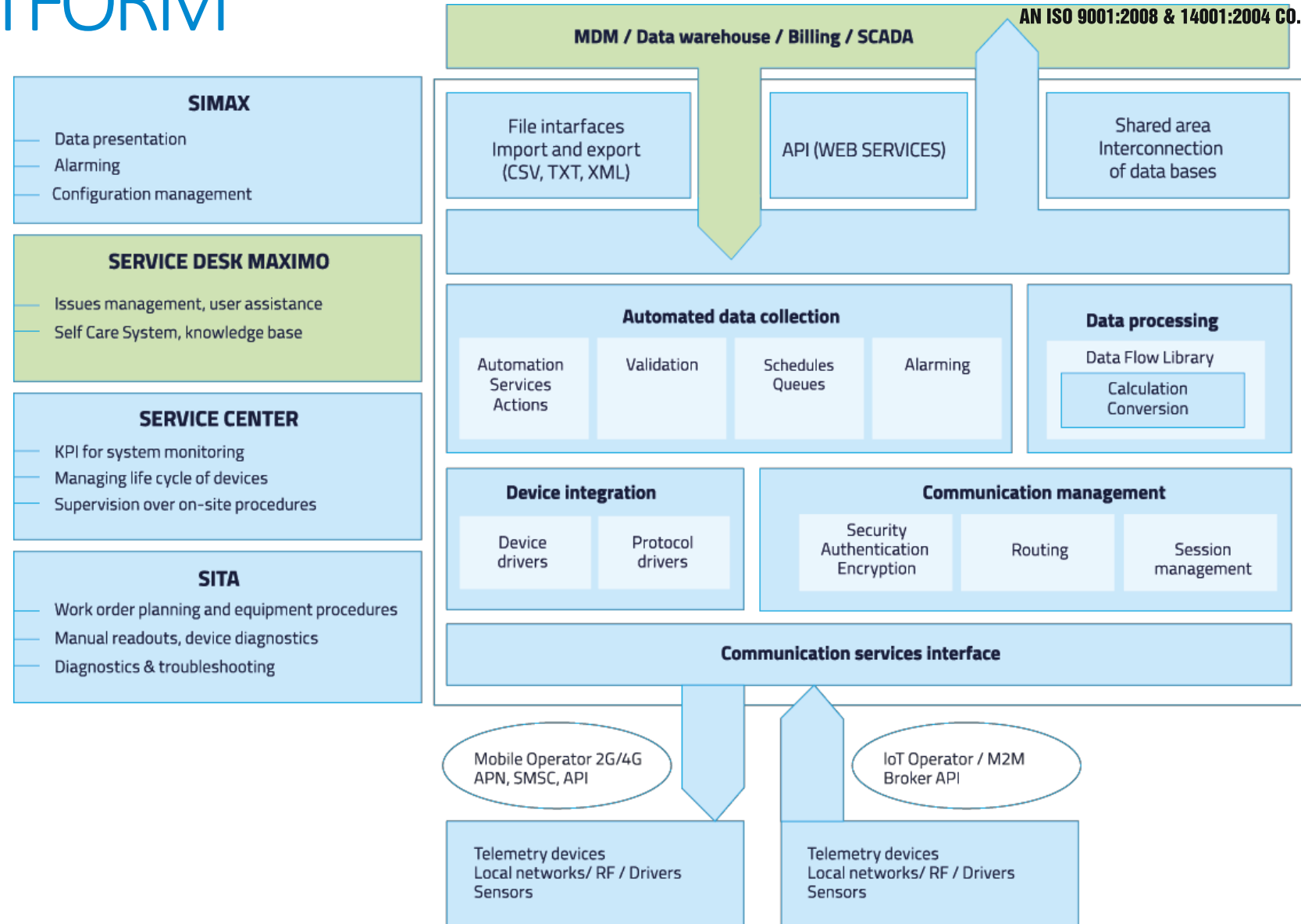
HEADEND SOFTWARE – OPEN IOT DATA COLLECTION PLATFORM



AN ISO 9001:2008 & 14001:2004 CO.

Open Platform

- Integrates 3rd party devices
- Can coexist with other HES system
- Master data Integration, shared MMS platform





CERTIFICATE OF TESTING

on three water meters of size 15 mm
of make 'KRANTI (k smart)' from
M/s. Aman Engineering Works Focal point Extension,
JALANDHAR



NABL T-0027

DATE OF
RECEIPT

21.05.2016

DATE OF
TESTING

24.05.2016
to
21.07.2016

DATE OF
ISSUE

01.08.2016

FCRUCWM/2016/T/242

PAGE 01 OF 09 PAGES

AUTHORIZED SIGNATORY



Dr. Jacob Chandapillai
DIRECTOR

SUMMARY

Test on three 15 mm, Class B, Multijet domestic water meters, of make - 'KRANTI k smart', model - "Multijet Inferential ", from M/s. Aman Engineering works Focal point Extn Jalandhar, was conducted at Centre for Water Management Laboratory of Fluid Control Research institute, Palakkad.

The tests were carried out as per the procedure described in this document which is based on IS 779:1994. All the meters were initially subjected to pressure and flow tests. After the initial tests, meters were subjected to temperature suitability test and again pressure and flow tests were carried out. Then the meters were subjected to accelerated endurance testing as per the procedure described in section 3.0 of this report and again proceeded to pressure and flow tests. The regulations and permitted tolerances in the measurement of physical quantities associated with the water meter test methods and equipments as per IS 6784: 1996 were fully followed during testing.

The meters supplied have **PASSED** the endurance test and the test results are given in Table 1 and Table 2 of this report. The meters are retained at FCRI under model approval Program (MAP) for enabling future comparisons during validity period.

Tested by:



P. Guruvayoorappan,
Technician Gr-II

Report prepared by:



C. K. Gopan, R E

Checked by:



U. Muthukumar, S R E

LIST OF GOVERNMENT ORDERS IN HAND

| SL. NO. | CONSIGNEE NAME | ORDER NO. & DATE | QUANTITY |
|---------|--|---|------------|
| 1. | Government Of Telangana via M/s L&T as main Contractor | 5579/18-19 dated 15/11/2018 | 43312 Nos. |
| 2. | Public Health Engineering Department, Rajasthan via WPIL Limited, Kolkata (Bhiwadi Site) | 88POR/18-19/00003 Dated 29/06/2018 | 15629 Nos. |
| 3. | Government of Telangana via Megha Engineering & Infra Structure Limited, Hyderabad. (AMRUT Pkg-2, Nizamabad project, Telangana.) | MEIL/18608/ (4134)/17- 18 Dated 31/12/2017 | 20000 Nos. |
| 4. | Government of Telangana via Megha Engineering & Infra Structure Limited, Hyderabad. (AMRUT Pkg-2 ,Suryapet project, Telangana) | MEIL/18620/ (4134)/17- 18 Dated 31/12/2017 | 20000 Nos. |
| 5. | Triveni Engineering & Industries Limited Site: Bathinda Department: Punjab Water Supply & Sewerage Board | 6300019723 Dated 26.05.2017 | 52510 Nos. |

LIST OF GOVERNMENT ORDERS EXECUTED

| SL. NO. | CONSIGNEE NAME | ORDER NO. & DATE | QUANTITY |
|---------|---|--|--|
| 1. | U.P. Jal Nigam under AMRUT Programme via M/s Viddut Kumar Jain and M/s O.P.Gupta Contractors | 10/12/2018 & 15/02/2019 | 11600 Nos & 10000 Nos. |
| 2. | District Project Management Unit, Nalanda Silao, Bihar via JITF Water Infrastructure Limited | 4500009769 Dated 05.11.2016 | 6936 Nos. |
| 3. | District Project Management Unit, Nawada Rajaoli, Bihar via JITF Water Infrastructure Limited | 4500009767 Dated 05.11.2016 | 6871 Nos. |
| 4. | Municipal Council Gangapur via Rockline Construction Aurangabad | Dated 12.11.2016 | 5343 Nos. |
| 5. | BTDA, Bagalkot, Karnataka via Neha Infrastructures, Bangalore | Neha/2016-17/023 Dated 03.10.2016 | 11075 Nos. |
| 6. | Jammu & Kashmir Re-construction Agency for NRW Study | PM/JKUSDIP/ERA/J/314321 Dated 16/01/2015 | 15000 Nos. Installation & Removal of Domestic Water Meters & 8 Nos. Flow Meters |

| SL. NO. | CONSIGNEE NAME | ORDER NO. & DATE | QUANTITY |
|---------|--|--|--|
| 7. | Rajasthan Urban Sector Development Investment Program via Megha Engineering & Infra Structure Limited, Hyderabad | 3224 Dated 27/05/2016 532 Dated 18/03/2016 9735 Dated 01/12/2015 5919 Dated 28/08/2015 10865 Dated 10/02/2015 10820 Dated 09/02/2015 10823 Dated 09/02/2015 7999 Dated 17/11/2014 7832 Dated 12/11/2014 7058 Dated 24/10/2014 5640 Dated 10/09/2014 4652 Dated 11/08/2014 6354 Dated 20/11/2013 7418 Dated 19/12/2013 7408 Dated 19/12/2013 7417 Dated 19/12/2013 | 1000 PCS 2000 PCS 1500 PCS 2000 PCS 3000 Pcs 3500 Pcs 2000 Pcs 3500 Pcs 2000 Pcs 3000 Pcs 4000 Pcs 1000 Pcs 5000 Pcs 2000 Pcs 2000 Pcs 1000 Pcs |

| SL. NO. | CONSIGNEE NAME | ORDER NO. & DATE | QUANTITY |
|---------|--|---|---|
| 8. | State Investment Programme Management And Implementation Unit (SIPMIU) Urban Development & Poverty Alleviation Department, GOVERNMENT OF MIZORAM | WM2/WS/AIZ/T2/ICB-1 Dated 20/09/2012 | 20000 Pcs. Water Meters and 85 Nos. Electromagnetic Flow Meters |
| 9. | The Executive Engineer, Chandigarh | 4178 Dated 13/08/2012 | 10000 Pcs. |
| 10. | Government of Jammu & Kashmir office of the Chief Engineer, Public Health Engineering Department, Jammu | PHEJ/P/08/29-32 Dated 14/04/2012 | 24312 Pcs. |
| 11. | Greater Visakhapatnam Municipal Corporation (Via IL&FS Engineering & Construction Co. Limited) | PO/7001/M/0062 Dated 04/10/2011 | 14520 Pcs. |
| 12. | State Investment Programme Management And Implementation Unit (SIPMIU) Urban Development & Poverty Alleviation Department, GOVERNMENT OF MIZORAM | WMI/WS/AIZ/T1/NCB-2 Dated 25/06/2010 & W.11023/II/2009-PD/SIPMIU(NERCCDIP)/BID-WS146 Dated 19/01/2011 | 15000 Pcs. |
| 13. | Greater Visakhapatnam Municipal Corporation (Via Maytas Infra Ltd.) | PO/7001/M/0048 Dated 26/11/2009 | 34182 Pcs. |

BULK TYPE WATER METERS



MID MARKED WOLTMAN WATER METER

Model: WP-SDC



Features:

- Certified to directive 2004/22/EC on measuring instruments.
- IP 68 Protection category with Copper Can Register.
- High overload capability.
- Anti-magnetic Protection.
- Pulse output option available.
- Standards as per ISO 4064:2005.
- Size Range from DN 50 to DN 500.
- FCRI Passed Performance test for 50mm to 150mm.

KRANTI[®] VALVES

Just like you - a valve has a long lifespan

Throughout their youth, all valves do well - but with time, wear and tear takes its toll, and the differences between good and bad quality become apparent. The healthy quality valve will continue performing effortlessly, whilst the cheap valve will require more and more maintenance - at a very high cost!



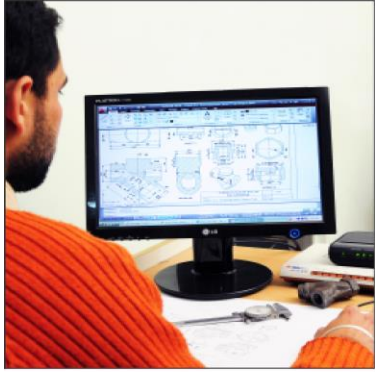
VALVES FOR WATER & STEAM APPLICATIONS

KRANTI[®]
VALVES



PROCESS

DESIGN & CASTING



Machining & Inspection



CAST IRON VALVES FOR WATER & STEAM (HIGH TEMPERATURE APPLICATIONS)



MAX. PRESSURE : 16 BAR
MAX. TEMP. : 220°C



CAST STEEL VALVES FOR STEAM (HIGH PRESSURE APPLICATIONS)



MAX. PRESSURE : 40 BAR
MAX. TEMP. : 425°C



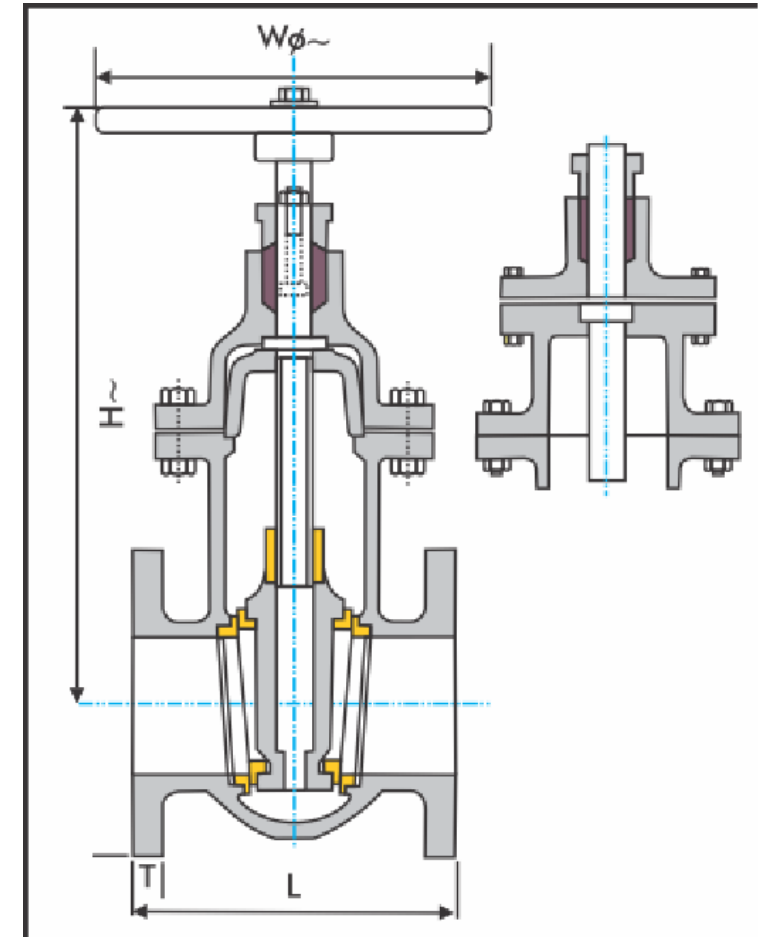


CAST IRON SLUICE VALVES



Features :

- ISI Marked as per IS 14846
- Seat Test Pressure : 1.6 Mpa
- Shell Test Pressure : 2.4 Mpa
- Non Rising S.S. 410 Spindle
- Wedge Nut & Wedge Ring : Bronze
- Body Seat Ring : Bronze
- Size Range 50mm to 600mm



DUCTILE IRON RESILENT SEATED GATE VALVES



The wedge constitutes the heart of the valve. It must travel easily and remain 100 % tight for half a century. Don't compromise with something as important as the heart of the valve.

FEATURES:

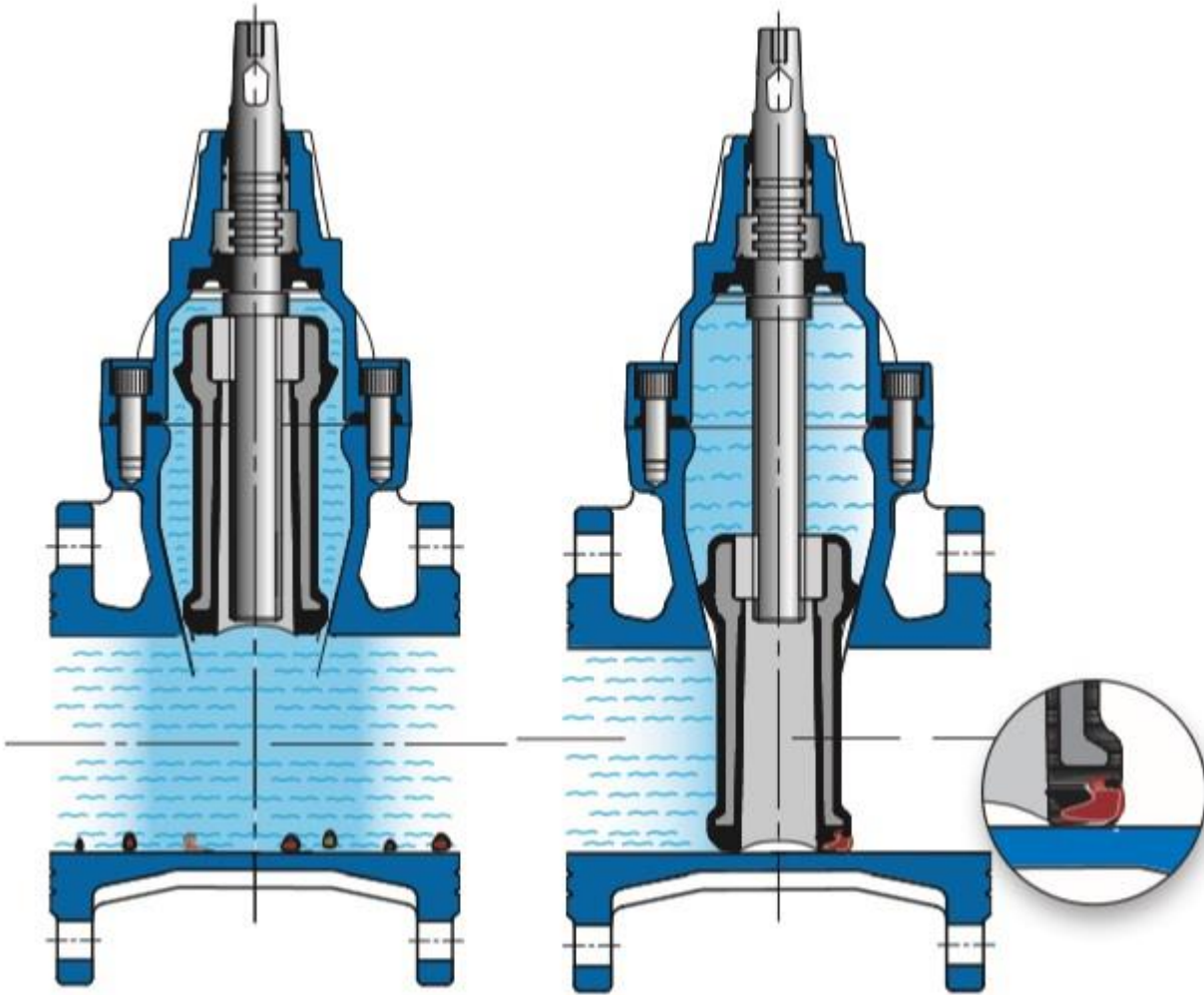
- Light Weight
- No-grooved body casting
- Wedged rubber - packed wholly
- Close tolerance cast valve body
- Corrosion resisting
- 3 Pc O-ring design for sealing
- Epoxy Coated – beneficial to drinking
- Test Pressure 24 kg/cm²
- Spindle : S.S. 410
- Size Range : 50mm to 300mm

APPLICATIONS:

- Portable Water Distribution Mains.
- Effluent Systems
- Irrigation
- Fire Protection
- Plumbing Systems
- Industrial Water Systems
- Air conditioning Systems
- Cooling Water Systems

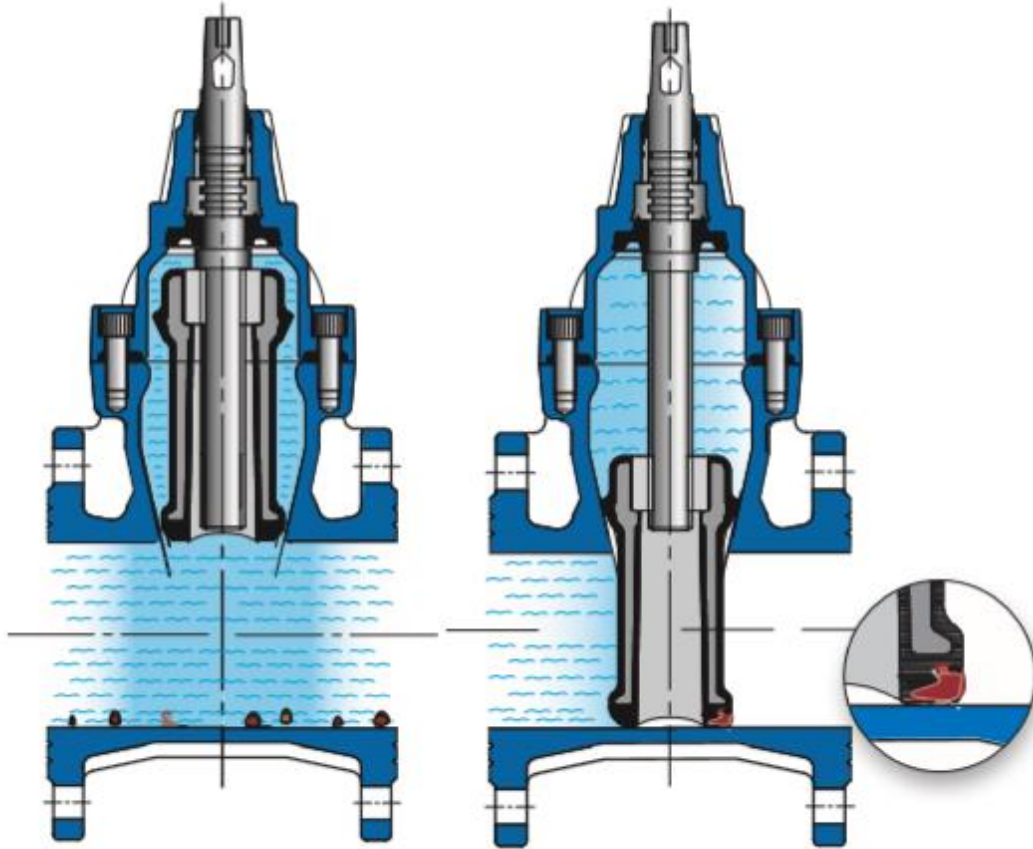
ADVANTAGES:

A resilient seated gate valve has a plain valve bottom allowing free passage for sand and pebbles in the valve. If impurities pass as the valve closes, the rubber surface will close around the impurities while the valve is closed. They do not have a Valve bag at the bottom. These valves have a so-called smooth bottom passage which prevents deposits from building up in the bottom.

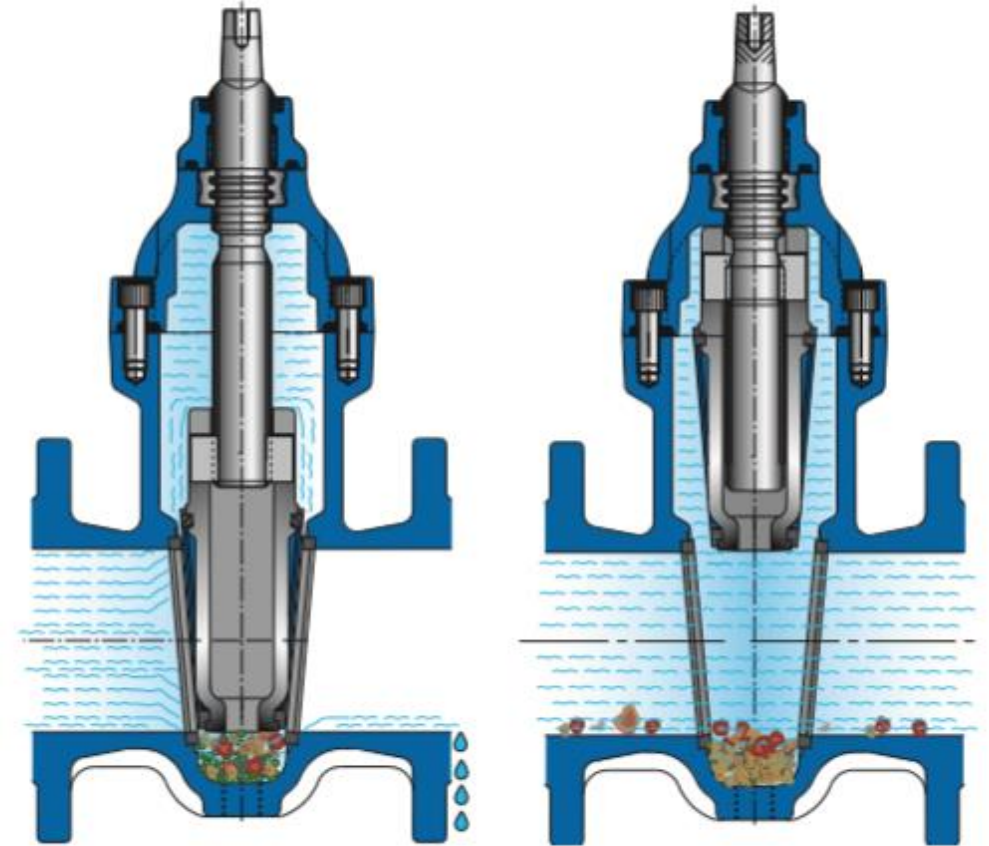


The rubber absorbs impurities in resilient seated type Gate Valves

A correct rubber compound is soft enough to absorb impurities, yet strong enough to wash the impurities through when the valve is opened again. This means that the rubber surface will regain its original shape securing a drop-tight sealing. Tests prove that the rubber surface of a DN 150 wedge absorbs impurities up to $\varnothing 8.7$ mm.



RESILIENT SEATED TYPE



METAL SEATED TYPE



BUTTERFLY VALVES



Lug Type



This general purpose soft seated Butterfly valve has a fully rubber lined single piece body with a centric disc construction and is available in wafer lugged style body pattern to ensure precise location in pipeline.

Size Range : DN 40 to DN 300

Pressure Rating : PN 40 (Max.)

Wafer Type



The body liner which also functions as the soft seat, comes in an integrally molded (bonded) version and offers 100% bi-directional sealing. The wafer style body has universal design to fit between pipe flanges of almost all popular flange standards.

Size Range : DN 25 to DN 600

Pressure Rating : PN 16 (Max.)

NON RETURN VALVES (SOLUTIONS FOR BACK FLOW PREVENTIONS)



DUAL PLATE TYPE

It employs dual spring loaded plates / disc hinged on a central hinge pin. It operates on the differential pressure between fluid flow pressure & spring torsion pressure. As the flow pressure reduces, the plates tends to close with a cushion effect by spring torsion force thereby restricting the reversal of fluid flow.

Size Range : DN 50 to DN 300

FEATURES:

- No water hammer and slamming
- Compact and structurally sound design
- Can be installed horizontally, vertically or in an incline
- Low pressure drop and reduced energy loss irrespective of pressure ratings
- Efficient and positive sealing under most flow and pressure conditions
- Easy to maintain, long life and trouble free operation



SWING TYPE

IS 5312



A basic swing Check valve consists of a valve body, a bonnet, and a disk that is connected to a hinge. The disk swings away from the valve-seat to allow flow in the forward direction, and returns to valve-seat when upstream flow is stopped, to prevent backflow.

The disc in a swing type Check valve is unguided as it fully opens or closes. The valve allows full, unobstructed flow and automatically closes as pressure decreases. These valves are fully closed when flow reaches zero, in order to prevent backflow. Turbulence and pressure drop in the valve are very low.

Size Range : DN 50 to DN 300

WAFER TYPE NON RETURN VALVES (SOLUTIONS FOR BACK FLOW PREVENTIONS)



The low inertia disc design enables the valve to open or close with a very low differential pressure which make them ideal for services operating under low differential pressures.

Size Range : DN 40 to DN 300

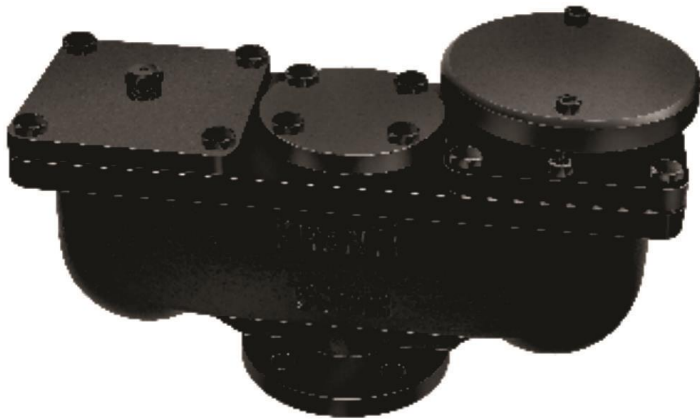
FEATURES:

- Very low face to face dimensions hence space required for mounting is less than 10% of that conventional valves.
- Short wafer body enables mounting the valve with shorter length fasteners of lesser number compared to flanged swing check valve. Approximately 50% saving in cost of fasteners.
- Very low weight-total weight is only approximately 1/6 the weight of a conventional check valve.
- Considerable secondary advantages resulting in substantial savings in handling, packing, transportation, installation and maintenance.
- Saving in terms of overall length required for piping.
- Tightening torque to be applied on the companion flange bolting is lower due to face sealing O-rings.
- Practically maintenance free due to fewer number of parts and simple construction.
- Self centering in pipeline due to controlled outside diameter, enables easy installation.

AIR VALVES FOR WATER APPLICATIONS



DOUBLE AIR VALVE



- As per IS 14845
- Test Pressure : 16 Kg/cm²
- Non Isolating / Isolating Type
- Size Range 40mm to 150mm

SINGLE AIR VALVE



- As per IS 14845
- Test Pressure : 16 Kg/cm²
- Screwed Male End
- Size Range 15mm to 50mm

KINETIC AIR VALVE

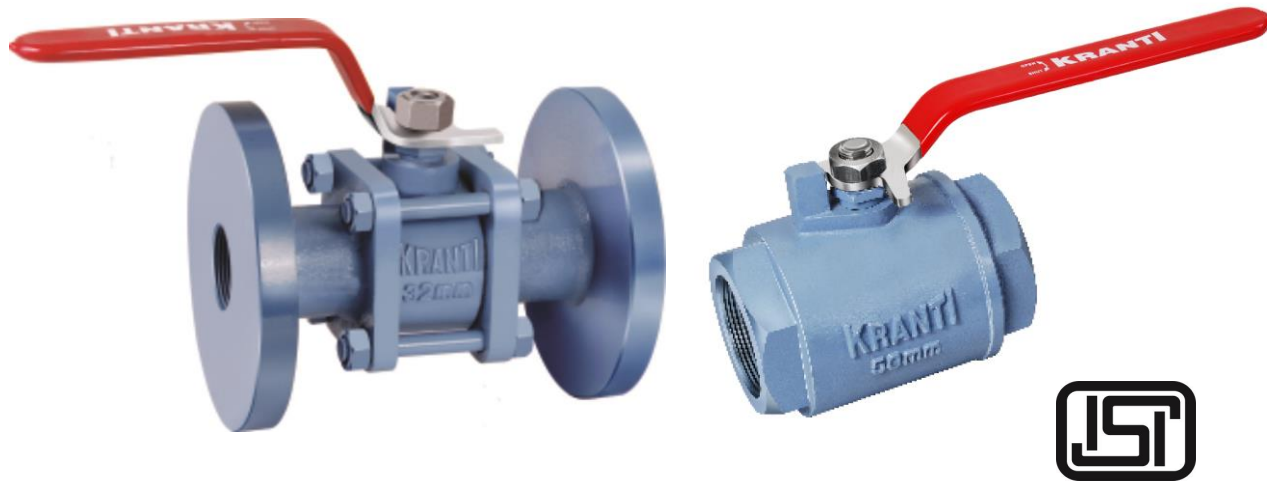


- As per IS 14845
- Test Pressure : 16 Kg/cm²
- Best for High Head Pipe lines
- Size Range 25mm to 200mm

BALL VALVES FOR WATER APPLICATIONS



CAST IRON



- ISI Marked as per IS 9890 : 1981
- Test Pressure : 16 Kg/cm²
- Liver Operated
- Screwed / Flanged Ends
- Size Range 15mm to 200mm

STAINLESS STEEL



- Test Pressure : 16 Kg/cm²
- Liver Operated
- Screwed / Flanged Ends
- Size Range 15mm to 200mm

STRAINERS FOR WATER APPLICATIONS

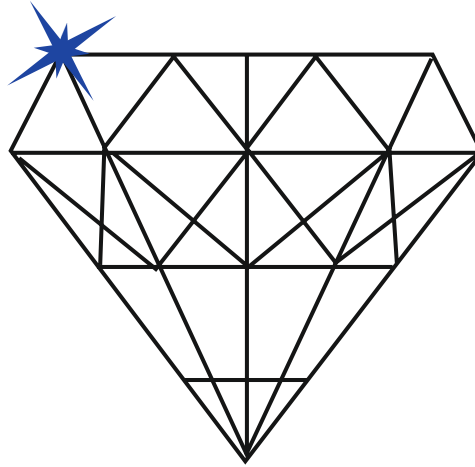


- **Stainless Steel Mesh**
- **Test Pressure : 21.1 Kg/cm²**
- **Screwed Ends**
- **Screwed Size Range 15mm to 100mm**



- **Stainless Steel Mesh**
- **Test Pressure : 21.1 Kg/cm²**
- **Flanged Ends**
- **Flanged Size Range 40mm to 300mm**

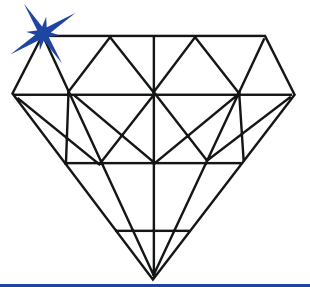
FLOW METERS



PARAS
FLOW METER

ELECTROMAGNETIC FLOW METERS

EFM are the best solution to measure conductive liquids with minimum conductivity of $5\mu\text{S}/\text{cm}$, as they offer rapid response time, high measuring accuracy and long-term stability. In addition, there're no moving parts in the pipe then any obstruction to the liquid flow, with great advantage of no pressure loss and virtually maintenance-free system.

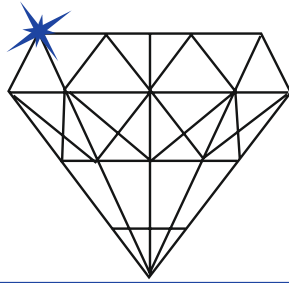


PARAS
FLOW METER



Features:

- Full Bore Type
- Suitable for Conductive Liquids
- Universal Power Supply 230V AC / 24V DC
- Empty Pipe Indication
- Material option depending upon process data
- Local Indication through LCD
- HART Communication / RS 485
- GSM Communication (Available)
- Maintenance Free
- Simple & Cost Effective Construction
- Accuracy : $\pm 0.5\%$ of full scale (for 20 to 100% Flow)
- Linearity : $\pm 0.5\%$ of full scale
- Repeatability : $\pm 0.2\%$ of full scale
- Size Range 15mm to 2000mm



PARAS
FLOW METER



Insertion Type
Flow Meter



Turbine Flow Meter



Battery Powered
Flow Meter

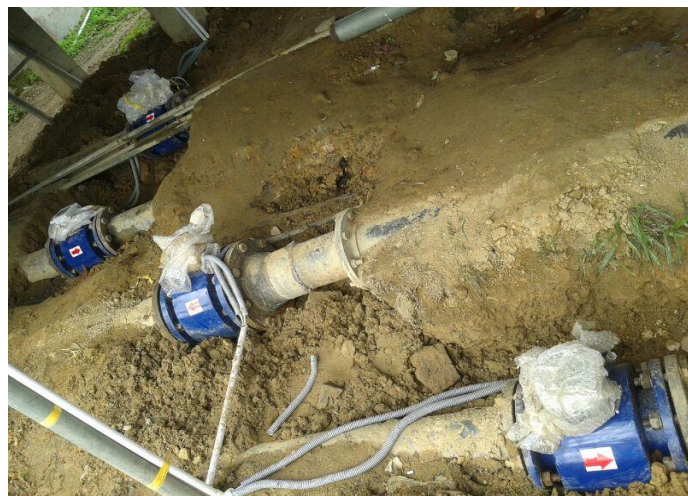


Smart Differential
Pressure Transmitter



Orifice Plate

ELECTROMAGNETIC FLOW METERS INSTALLATIONS AT SITE



USP's

- The only Indian Company having complete in house facility of Foundry, Machining, Injection Molding for Plastic components, Assembly & Testing of Water Meters.
- Executed many projects with various Government & Semi- Government organization all over India.
- The only Indian Water Meter Manufacturer who had successfully completed back to back two projects as a Prime Contractor with Government of Mizoram for “ Supply, Installation, Testing & Commissioning of 35000 Nos. of Water Meters & 85 Nos. of Electromagnetic Flow Meters” under ADB Funding.
- The only Indian Water Meter Manufacturer who are conducting NRW Study for Jammu city being as Prime Contractor by “Executing & Carrying out the Works for Supply, Installation and removal of Domestic Water Meters and portable flow meters in 20 DMA's in Jammu”.
- Production Capacity to manufacture 2000 Water Meters per day.
- One Stop solution for all kinds of Water Meters requirements, Valves requirements and Flow Meters Requirements.
- Wide Range of Products available.

LIST OF CLIENTS

Public Sector

1. Municipal Corporation of Greater Mumbai
2. Delhi Jal Board
3. Municipal Corporation Chandigarh
4. Nasik Municipal Corporation
5. Municipal Corporation Goa
6. SIPMIU, Government of Mizoram
7. RUIDP, Rajasthan
8. Jammu & Kashmir Re-Construction Agency, Jammu
9. Public Health Engineering Department, Jammu
10. U.P. Jal Nigam
11. Municipal Corporation Shimla
12. Punjab Water Supply & Sewerage Board
13. Indian Railways
14. Public Health Engineering Department, Rajasthan

Private Sector

1. Larson & Toubro Limited
2. Tata Consultancy Services
3. NCC Construction Limited
4. IL&FS Limited
5. Megha Engineering & Infrastructure Limited
6. Maytas Infra Limited
7. Adani Group
8. Ansal Group
9. ONGC
10. NTPC
11. Pratibha Industries Limited
12. Unity Infra Limited
13. Gammon India Limited
14. DLF Group
15. Samarpan Developers, Bangalore
16. Shobha Developers, Bangalore
17. Prestige Developers, Bangalore
and many more....

LETS SAVE WATER TOGETHER



THANK YOU