

Unlocking Our Products & Services: Customised Solutions for Every Requirement

VALVES FLOW MEASUREMENT **FORGINGS ASTING** EMPERATURE **PRESSURE** THE FLOW LAB

INDUSTRY APPLICATIONS



AGRICULTURE



















FFRTII IZFR

Why choose us?

End-to-End Supply Chain Control for Unmatched Quality: In-House Forging and Casting foundry ensures precision, quality and quick delivery.

Comprehensive Solutions: Your all-in-one source for valves, flow meters, level, temperature, pressure, forging, and casting products.

Tailored Solutions: We offer customised manufacturing solutions to align with your specific needs.

Swift Turnaround: Experience fast and efficient services with our commitment to quick turnaround times.

Decades of Expertise: Leverage over 55+ years of industry expertise and continuous innova-

Competitive Pricing: Access competitive pricing without compromising on the quality of our products.

Exceptional Customer Support: Receive dedicated and exceptional customer service support throughout your engagement with us.

Stringent Certifications: Trust in our adherence to international standards with certifications including ISO 9001:2015, 14001:2015, 45001:2018, and PED.

Accredited Calibration Lab: Benefit from our ILAC-MRA/NABL certified Flow Calibration Lab (ISO 17025 certified) ensuring precision and accuracy.

Qualified Personnel: Count on in-house ASNT NOT Level III qualified personnel available to address your specific needs.

Global Presence: Join our network of over 500 clients worldwide, with products exported to over 40 countries.

THF FLOW LAB

Certified Flow Calibration Services: Ensuring Accuracy and Compliance

- NABL approved, ISO 17025 : 2017 Compliant
- ISO 4185: 1980 I COR 1: 1993 Compliant
- India's largest weight tank: 40,000 Kgs
- 5 individual rigs, with 5 different flow rates
- Current Max Flow Rate: 6000m3
- Size Range: 1/4" to 60"
- Products We Service: Primary Flow Meters, Electromagnetic, Turbine, Ultrasonic, Vortex, Coriolis, Mass, Valves

Premium Quality Valves: Customistable, Reliable, and Globally Trusted

GATE VALVES • GLOBE VALVES • BALL VALVES BUTTERFLY VALVES • CHECK VALVES







Product Specifications: Valves

Size and Pressure Rating	 Ball Valve: 1/2" to 24" // Class 150 to 2500# Butterfly Valve: 2" to 48" // Class 150 to 2500# Check Valve: 2" to 48" // Class 150 to 2500# Gate Valve: 1/2" to 24" // Class 150 to 2500# Globe Valve: 1/4" to 24" // Class 150 to 2500# *Large sizes and higher pressure rating on request. 	
Manufacturing Processes	Forging and Casting	
End Connection	Threaded Socket Weld Flange (RF / RTJ) Butt Weld Wafer (only for butterfly valves) Lugged (only for butterfly valves)	

Materials	CS, LTCS, Ductile Iron, SS304/L, SS316/L/H, 321, 410, F5, F11, F12, F22, F91 Duplex, Super Duplex Monel, Inconel Hastelloy, On Request
Design, Testing, End Connection, and Dimensional Standards	ASME, ISO, IS, BS, API AS, DIN, MSS, ANSI, On Request
Design Options	Fire Safe, Cryogenic. Metal/Soft Seated, By-pass arrangement, On Request
Operation Options	Manual Handwheel/Lever, Gearbox, Actuator





[Strainers]

Types	Pot, Y, Basket
Size & Pressure Rating	1" to 48" : Class Class - 150# to 2500#
Trim Material	SS 304, SS 316, Duplex, On Request

Needle Valves, Pressure Gauge Valves & Manifolds

NEEDLE VALVE
PRESSURE GAUGE VALVE
2 VALVE MANIFOLD
3 VALVE MANIFOLD
5 VALVE MANIFOLD
MONO FLANGE

Materials	CS, LTCS, SS304/L, SS316/L/H, Alloy Steels, Duplex, Super Duplex, Monel, Inconel, Hastelloy, On Request
Max Pressure	6,000 Psi , 10,000 Psi
Connection	NPT, BSP, Socket Weld
Packing	PTFE, Grafoil, Viton, On Request





Accurate Flow Measurement Solutions for Every Industry

Key Specifications: Flow Products

Design As Per	ISO 5167, ISO/TR 15377, ASME PTC-6, ISA1932, RW Miller	
Materials	CS, SS304/L, SS316/L/H, Monel, Inconel, Alloy Steels, Duplex, Super Duplex, Hastelloy, On Request	

ORIFICE

Types

- Single/Multi Hole Orifice Plate (with optional Flange/Meter Run Assembly)
- Direct Mount Orifice Ring (optional RTD tapping)

Advantages

- High accuracy
- Relatively more compact and affordable compared to other flow metres
- Easily Replaceable
- Can be installed in a vertical/horizontal inclined pipe
- Wide range of flow rates

^{*}Higher accuracy is available with flow calibration





VENTURI

Types

- Machined
- Classical
- Fabricated
- Steam Jacketed

Advantages

- Low pressure drop
- High accuracy
- Wide range of applications
- Less straight length required compared to other flow elements

^{*}Higher accuracy is available with flow calibration

META BAR

Types

- Remote mount with Needle Valves (optional RTD tapping)
- Direct Mount with Manifold (optional RTD tapping)
- Online Insertion and Retraction

Advantages

- Bi-directional
- Cost Effective
- Lowest permanent pressure lost
- Easy installation





META CONE

Advantages

- Requires short upstream and downstream straight lengths
- High accuracy

META WEDGE

Advantages

- · Low permanent pressure loss
- · Bi-directional
- Best for slurries or high particle-laden and abrasive mediums

*Higher accuracy is available with flow calibration





FLOW NOZZLE

Types

- Long Radius
- ISA 1932
- PTC-6
- Venturi Nozzle

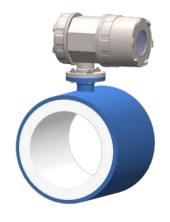
Advantages

- High accuracy
- Ideal for steam, high temperature and high velocity mediums
- Long lasting
- High accuracy

MAGNETIC FLOW METER

Features

- LCD Display
- · Multi-language, module design, multi-functional output
- Bi-Directional Measurement
- · Easy to Install
- · Automatic Alarm Function for self diagnosis



^{*}Higher accuracy is available with flow calibration

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Forgings that Exceed Expectations: Unmatched Strength and Precision



In Carbon Steel: SA105, SA350 LF2 CL.1, CL.2, SA350 Gr. LF3, In Alloy Steel: SA182 F5, F9, F11, F22, F91, in Stainless Steel: 304/L/H, 316/L/H, 321, Duplex, Super Duplex, Inconel & Monel, Hastelloy, On Request.				
PRODUCTS	DIMENSIONAL STANDARD	SIZE RANGE/ MAX OUTER DIAMENTER	PRESSURE RATING/ MAX	
FLANGES	ASME/ANSI/ DIN/API/AS	1/2" to 60"	150 to 2500 #. / 6.5 MT. Single Piece	
WELDOLET, SOCKOLET, OLET	As per customer specification	2200mm	6.5 MT. Single Piece	
TUBE SHEETS	As per customer specification	2200mm	6.5 MT. Single Piece	
SPECTACLE BLIND & SPACER & PADDLE	ASME/ANSI/B16.48	1/2" to 60"	Class 150 to 2500 #	
SELF- REINFORCED NOZZLE	As per customer specification	2200mm	6.5 MT. Single Piece	
RING JOINT GASKETS	ASME B16.2/API 6A	2200mm	6.5 MT. Single Piece	
STUB ENDS	As per customer specification	2200mm		
RINGS	As per customer specification	2200mm	6.5 MT. Single Piece	



Instruments for Precision: Level, Temperature, and Pressure

LEVEL

- Tubular Level Gauge
- Reflex Level Gauge
- Transparent Level Gauge
- Magnetic Level Gauge
- Magnetic Level Gauge with Switch
- · Magnetic Level Gauge with Transmitter







TEMPERATURE

- Thermowell
- High Velocity Thermowell(HVT)
- Temperature Gauges
- RTDs
- Thermocouple



PRESSURE GAUGES

- Bourdon Sensing Pressure Gauge
- Solid Front Pressure Gauge
- Diaphragm Sensing Pressure Gauge
- Capsule Sensing Pressure gauge
- Differential Pressure Gauge
- Hygiene Gauge
- Master / Test Pressure Gauge
- Gauge with External Zero Adjustment
- Pressure Gauge with 40mm, 50mm, 63mm dial, 150mm and 250mm dial

DIAPHRAGM SEAL

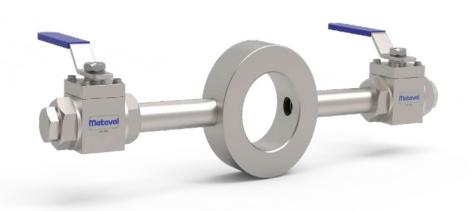
- Flush Diaphragm Seal
- Sandwich type Diaphragm Seal
- Threaded Flush Diaphragm Seal
- Pan Cake type Diaphragm Seal
- Extended Diaphragm Seal



ACCESSORIES



- Snubber
- Syphon (Pig tail type & U type)
- Gauge Saver
- · Gauge Adaptor
- Universal Adaptor
- Gauge Cocks
- Cooling Tower
- Flusing Ring with Needle Valve, Ball Valve, Gate Valve
- · Condensate Pot



PROCESS SKIDS













METAL SEATED GAVE VALVE



DOUBLE OFFSET BUTTERFLY VALVI



ORIFICE FLANGE ASSEMBLIES



FLOW NOZZLE



AVERAGE PITOT TUBE



YSTRAINER



RETRACTABLE INJECTION QUILL



METER RUN

THE FLOW LAB

Certified Flow Calibration Services: Ensuring Accuracy and Compliance

- FLOW LAB is NABL approved, ISO 17025
 : 2017 Compliant
- ISO 4185: 1980 / COR 1: 1993
 Compliant
- Fully automated through SCADA system
- India's largest weight tank: 40,000 Kgs
- 5 individual rigs, with 5 different flow rates
- Current Max Flow Rate: 6000m³
- Size Range: 1/4" to 60"
- Ability of calibrating 5 flow elements on 5 rigs simultaneously
- Products We Service: Primary Flow Meters, Electromagnetic, Turbine, Ultrasonic, Vortex, Coriolis, Mass, Valves





TESTING CAPABILITIES

Extensive In-house Testing Facilities and Customised Testing Solutions on Demand



- Universal Testing Machine
- Impact Testing Machine
- Hardness Tester
- Profile Projector
- Magnetic Flaw Detector
- Ultrasonic Flaw Detector
- PMI
- Microscope
- Magnetic Particle Test
- Dye Penetrant Testing
- Hydro Testing
- Nitrogen Testing
- Radiography Testing
- Oxygen Cleaning
- Spectro Analysis
- Ferrite Testing
- Helium Leak Testing
- Corrosion Testing

CERTIFICATIONS



CERTIFICATE



METAVAL ENGINEERING PRIVATE LIMITED

has implemented and maintains a Quality Management System

open. Forgings and machining of flanges, bars, nocdes and forged compowers, Design and manufacture of flow elements Le. How notifies, Orifice Flange assemblies, Orifice ities, Youne

over. Sels, Wedge Flowineter, Valve Manifolds, Venturi tubes, Pitot tube, Level Chambers, cators, Level Gauges, Condensing pots, Meter Run, Gate, Globe, Check, Ball, Butterfly

ISO 9001 : 2015











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INTERCERT

CERTIFICATE OF REGISTRATION

METAVAL ENGINEERING PRIVATE LIMITED

PLOT NO. 169-170, VILLAGE - BHAKRI, BADKHAL -PALI ROAD, FARIDABAD-121004, HARYANA, INDIA

Has been successfully assessed as per the requirements of

ISO 14001:2015

Initial Certification Date Certificate Issue Date Surveillance Validity Date Recertification Date

: January 12, 2023 : January 12, 2023 : January 11, 2024 : January 11, 2026

Registration Number: ICI-EM-2301010













CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that the Occupational Health & Safety Management System of

METAVAL ENGINEERING PRIVATE LIMITED

PLOT NO. 169-170, VILLAGE - BHAKRI, BADKHAL -PALI ROAD, FARIDABAD-121004, HARYANA, INDIA

Has been successfully assessed as per the requirements of

ISO 45001:2018

initial Certification Date Certificate Issue Date Surveillance Validity Date Recertification Date

Registration Number: ICI-OS-2301011



Autoliti Issued on behalf of InterCert Head - Certifications









API SID 607 FIRE TYPE TEST CERTIFICATE
Conformity with Fac Type Test
Act, to API SID 407, 4" EDITION, OCTOBER 2022
Hour No. HTGSTT600MITAVALCEREDOO

House No. PITCOTTONINGTANIAL CREETON Date & Address of the 7 the Valuestantoner Date & Address of the 7 the Valuestantoner Date & Address of the 7 the Valuestantoner Date & Date & Address & Date & D

We briefly critify that the results of Valve Term control cut under versions of Mn LEQA (TFIA) on the ladoutined Valve before menting the requirement in the consistent envelopment driver. The Site benefity of the large product all the required hydrostate, as represented under the consistent of the control of the latest the control of the required hydrostate and production pressures to the control of the control of the latest the latest the control of the latest the lat

Type of Valve (Description of Tested Valve)	FULL BOBE 21	R TSO 17792 3015, ASME BIG 14, 3030 MECE FLOATING TYPE BALL VALVE SYMMETRIC AND INTENDED FOR B			
Stee & Pressure Class of Valvo					
Assembly Derwing No.	MET-HLV18-52-2100033 REV 0 DATE 2001/2023 Valve Sr. No. 2201/9020				
Material of Construction (MOC)	ASTM A1R) GR F104 (B009Y, CONSECTOR); 95 304 (GLAND BUSIE, LEVER NUT)				
Bull Manerial	\$5.104	Stem Material	55 304		
Sept Material	PIN	Budy Seal : Gardet Material	55304		
Stree Send : Parling Material	GEAPOIL.				
Fasteners Material	NOT APPLICABLE (NA)				
Weight of Valve	determined to pe other qualification that these states of	or body cads are not considered by this I et by the body and type. For qualification of a coloria have been uset, valves with ends a greater than that of the test valve, or their	e the process Internations is filment to those of the te-	d Standard, and providing that all it yahrs may also qualify provided	
Test Report No.	PITS/FTI-907 METAVAL/ILP003				
Tint Beak	PASS				
Qualified Risage	This test for particular video share qualifies following sures and present class many & Matrials of Communion as per API STD 607. 8 TH ED: OCTOBER 1622. Classe 7				
Numinal Dissessor Qualified	NPS 2 AND BELOW 215 5: 4 to DN 50 AND BELOW 45: 80: 100				
Number Pressure Class Qualified	Qualified tailow with highes PN or Class Ratings but not expending twice the INN or Class Rating of the tested Value Class Rating 800, 900 & 1:000 as PN 100, 160 & 2:00				
New-meralis: Meterials	PIPE (SEAT MATERIAL)				
Further Qualification	Any change is non-number numerical with request to the unstitu cleaner samples and, and to budy seal, area seal, and body seat request a se-qualification.				
Declaration	The tested naive complied with the regumentation API STD 607 S ²⁰ EID OCTOBER 2021				













TECHNICKÝ SKÚŠOBNÝ ÚSTAV PIEŠŤANY, s. p. Krajinská cesta 29299 921 91 Piešťany, Slovak republic





National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

CHANDHOK ENGINEERING PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories" for its facilities at

PLOT NO.3, LINK ROAD, SEC-28, FARIDARAD, HARVANA, INC in the field of

CALIBRATION

ficate remains valid for the Scope of Accreditation as specified in the amesure subject satisfactory compliance to the above standard & the relevant requirements of NABL.

Signed for and on behalf of NABL



berleton



Item Description Averaging Pitot Tubes Non Standard Forgings / Forging Tube Sheet





TSU.

CLIENTS





















































SIEMENS Honeywell



























Est. 1967

THINKING OUTSIDE THE BOX WITHOUT LIMITATIONS

