



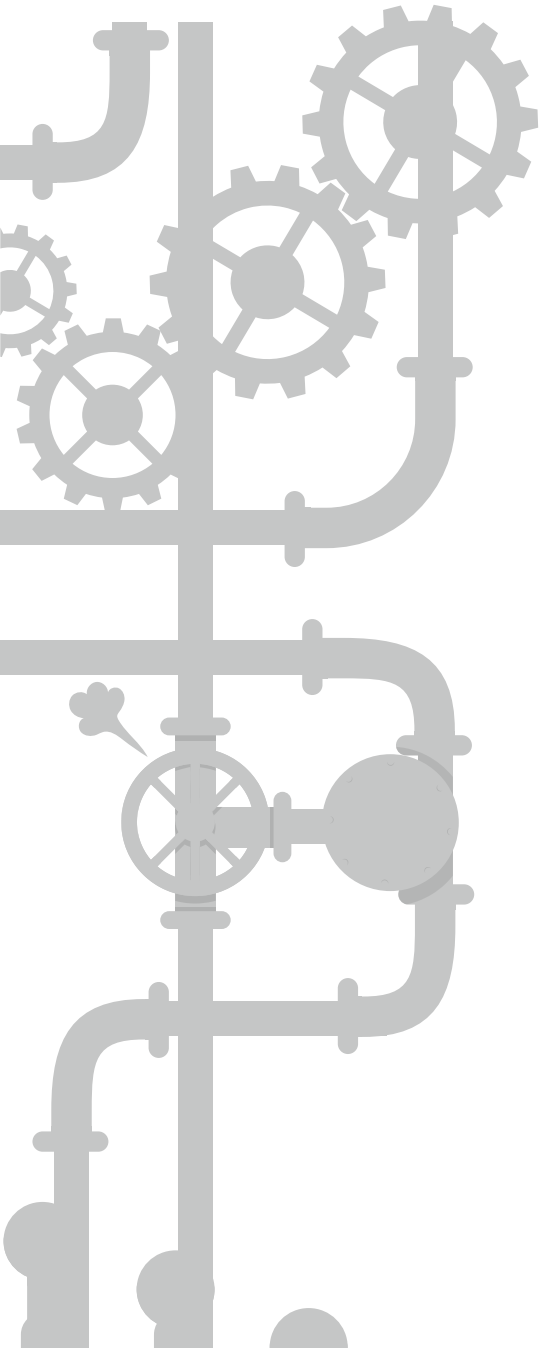
ENERTech GLOBAL



Global Services



ABOUT US



ENERTECH GLOBAL was established in 2015 to cater to Oil & Gas, Petrochemical & Industrial Products.

We believe in strong relationships with our Customers and our Suppliers/Manufacturers. We AIM to provide cost-effective, timely and technically superior solutions to our clients requirements and believe in excellent customer service and support.

We have 3 main divisions, catering to our entire Product range.

1. Tank Products and Floating Roofs, 2. Industrial Products, 3. Process Equipment

We have exclusive agency agreements with our partners across USA, UK, Singapore, Japan, India and South Korea.

We cater to the needs of our customers across GCC, Iraq, North Africa and India. Our procurement offices and partners in USA, CANADA, UK, INDIA, CHINA, KOREA, JAPAN AND SINGAPORE support us for our clients requirement.

Our Engineering & Service Team can also provides design engineering support from feed to detailed engineering for Oil & Gas UP-STREAM process packages in collaboration with our principals.

We also have Qualified and Trained Field Installation and Commissioning Engineers to assist in Installation and commissioning operations.

Our Major Focus Areas Business Activity

- 1.OIL AND CHEMICAL STORAGE AND BUNKERING COMPANIES
- 2.TANK FARMS AND INSTALLATION
- 3.OIL & GAS FIELDS- UP STREAM
- 4.PETROCHEMICAL AND REFINERIES
- 5.ENERGY & POWER PLANTS



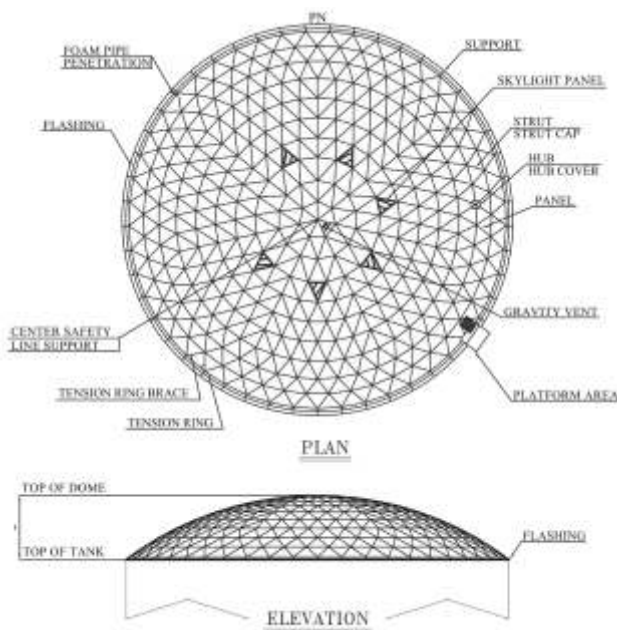
TANK PRODUCTS

ALUMINIUM DOME ROOF

Environmental regulations governing and chemical storage have recognized worldwide and more strict policies are demanded to reduce hazardous Vapor emissions. Finding cost-effective ways to address these regulations is a top priority for storage tank facilities.

Aluminium Dome Cover provides environmental efficiency, protecting stored products and reducing maintenance costs and in addition its reputation grows more and more on its economic budget, light weight and simple installation.

API 650 appendix G is the basic concept for Aluminium Dome Roof Design. We have accumulated knowledge on storage tanks of petrochemical and petroleum industries and long history experience on tank maintenance services.



TANK PRODUCTS

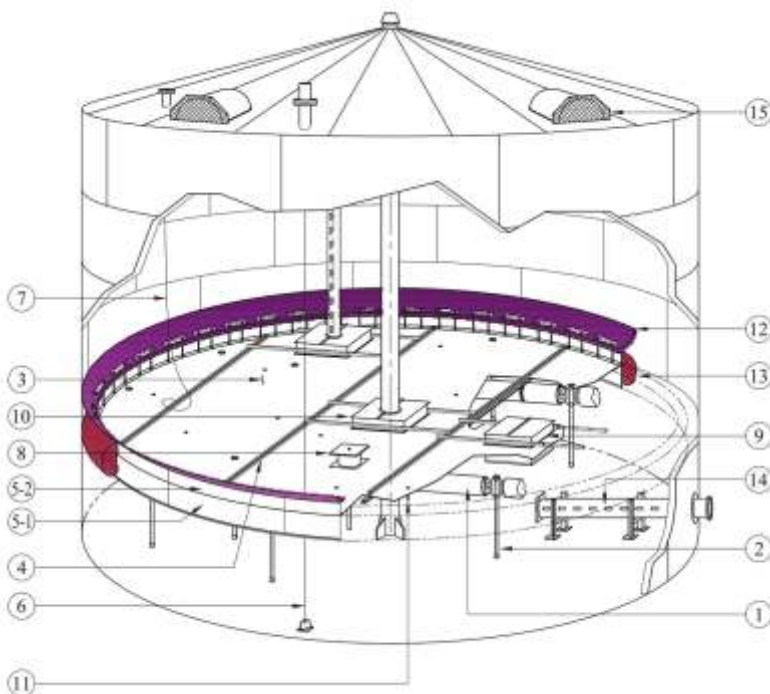
INTERNAL FLOATING ROOF [IFR]

We have a superior design and its material of 'Internal Floating Roof ' are the most effective way of reducing vapor evaporation and VOC (Volatile organic Compound) emission to the atmosphere, thus contribution to environmental prevention, fire hazard prevention as well as saving a great deal of money by preventing evaporation loss 'Korea Float Internal Floating Roof ' utilizes top grade aluminium, high quality stainless steel and excellent rubber materials to maximize strength and to assure corrosion resistance

FEATURES OF OUR IFR

- Meeting API 650 Appendix H Standard API MPMS Chapter 19.2 (Evaporative Loss)
- Highly efficient vapour loss prevention design
- Excellent quality Seal Material
- Wide range of storage application
- Superior chemical resistance (100% Aromatic Protection)

DESIGN FOR IFR ASSEMBLY



GENERAL ITEMS OF IFR

1. Floating Tube
2. Adjustable Leg
3. Deck Skin
4. Clamp Beam
- 5-1. Primary Rim Plate
- 5-2. Secondary Rim Plate
6. Anti-rotation Cable
7. Ground Cable (earth)
8. Vacuum Well
9. Manway Well
10. Internal Pipe Well
11. Stub Drain
12. Wiper Seal
13. Primary Seal
14. Inlet Diffuser
15. Free Vent Cover

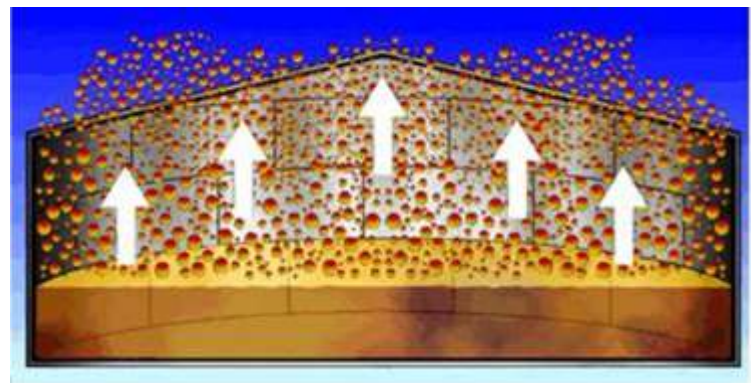
TANK PRODUCTS

INTERNAL FLOATING ROOF

Our Internal Floating Roof has a superior design and the material "Internal Floating Roof" are the most effective way of reducing vapor evaporation and VOC (Volatile Organic Compound) emission to the atmosphere, thus contributed to environmental prevention, fire hazard prevention as well as saving a great deal of money by preventing evaporation loss 'Korea Float Internal Floating Roof' utilizes top grade aluminium, high quality stainless steel and excellent rubber materials to maximize strength and to assure corrosion resistance.

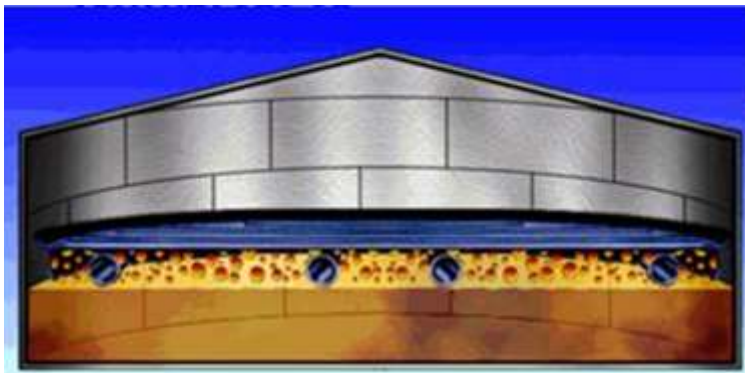
ADVANTAGES OF OUR INTERNAL FLOATING ROOF

- API 650 Appendix H Standard
- High Efficiency on Vapour Loss Prevention
- Excellent Sealing System / MTL
- Wide Range of Storage Application
- Superior Chemical Resistance (100% Aromatic Protection)
- Eco-Friendly Design



Vapor Loss Without Internal Floating Roof

DESIGN FOR INTERNAL FLOATING ROOF



Vapor Prevention With Internal Floating Roof

ERECTION & INSTALLATION

INSTALLATION TIME : Approx. 10(ten) man hour
per running diameter of tank

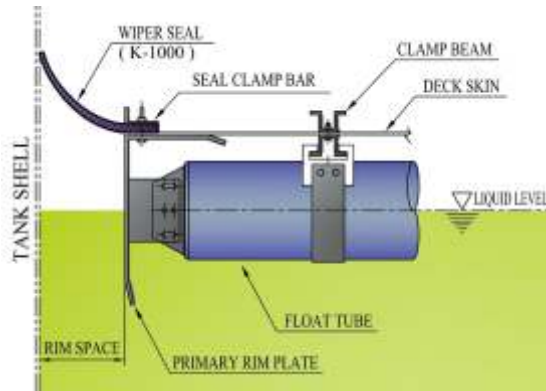
TYPICAL SERVICE LIFE : 8 – 15 years



TANK PRODUCTS

SEAL TYPES FOR INTERNAL FLOATING ROOF

SINGLE WIPER SEAL

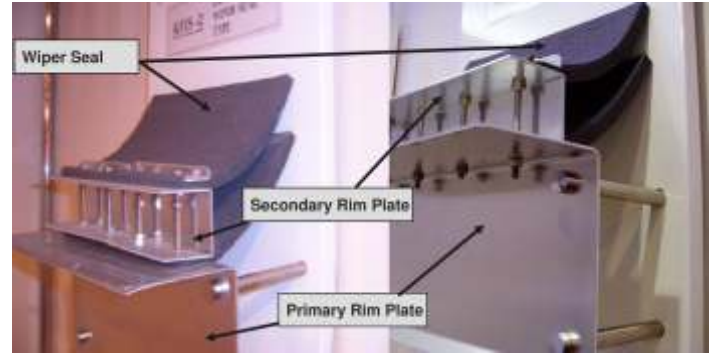


Technical Data

- Rim space – 180 ± 100 mm
- Aromatic Service – 100%

Material Specification : Wiper seal : **K-1000**
10X20X320W (X.P.E – Cross linked Poly-Ethylene Foam)

DOUBLE WIPER SEAL

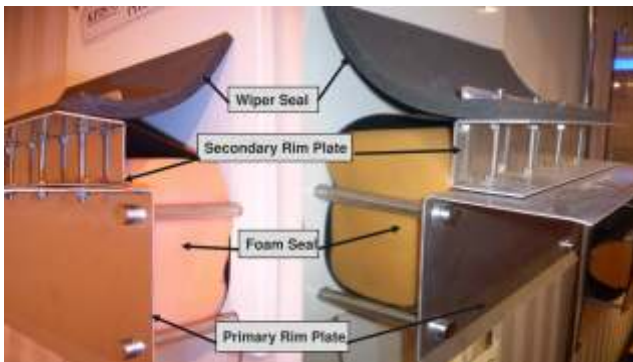


Technical Data

- Rim space – 180 ± 100 mm
- Aromatic Service – 100%

Material Specification : Wiper seal : **K-1000**
10X20X320W (X.P.E – Cross linked Poly-Ethylene Foam)

FOAM SEAL WITH WIPER SEAL



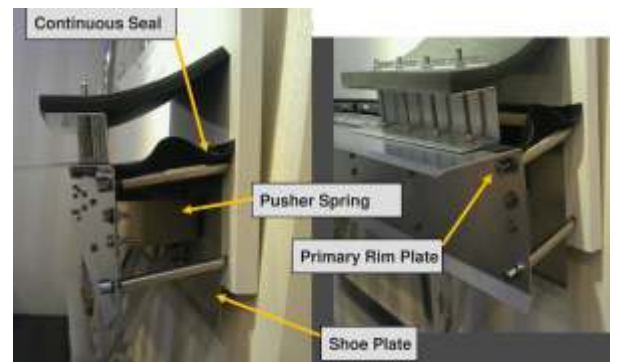
Technical Data

- Rim space, Aromatic Service and Material Specification are same as single wiper seal
- Foam Block : **K-THANE**(Poly-Urethane Foam)

Envelope

- A. **K-7001** 1.0t(Poly-Urethane Sheet with Polyester scrim)
- B. **k-7047 1.6t**(N.B.R/P.V.C Sheet with Polyester scrim)
- C. **K-7070** 0.35t(Teflon Sheet with Polyester scrim)
- Foam Tying Wire : 3.2 ϕ Sus (304) Wire

MECHANICAL SEAL



Technical Data

- Rim space, Aromatic Service and Material Specification are same as single wiper seal

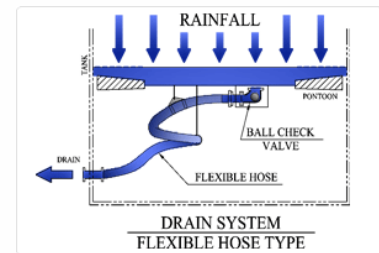
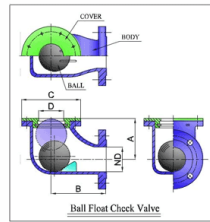
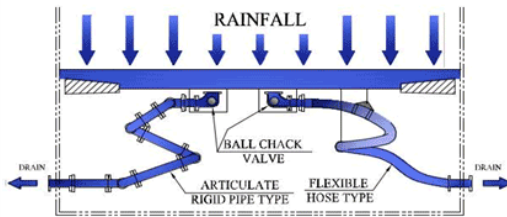
Continuous Seal

- A. **K-7001** 1.0t(Poly-Urethane Sheet with Polyester scrim)
- B. **K-7070** 0.35t(Teflon Sheet with Polyester scrim)
- Shoe Plate : Stainless Steel (304) 1.2t
- Pusher Spring : Stainless Steel (301) 1.0t
- 1st, 2nd Arm : AL. 3.0t / SUS (304) 1.0t, 1.5t
- Hanger Bracket : AL.(3003) 2.0t / SUS (304) 1.5t

TANK PRODUCTS

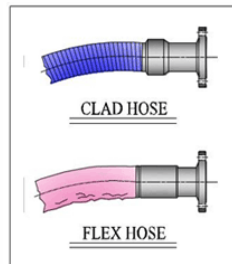
SEAL TYPES FOR INTERNAL FLOATING ROOF

ROOF DRAIN SYSTEM



TECHNICAL DATA

- Material
 - Pipe- Carbon Steel / Stainless Steel
 - Flange - Carbon Steel / Stainless Steel
 - Gasket - Non-Asbestos
 - Frame - Carbon Steel / Stainless Steel
- Connection - ANSI 150LB(Others are available)



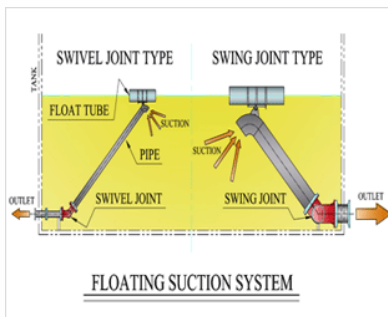
CLAD HOSE

The 'Clad Hose' type drain can be installed from centre sump to shell even in the largest tanks with one continuous length or, for economy, can utilize the "shortest length" concept in conjunction with rigid piping.

FLEX HOSE

* The 'Flex Hose' type drain is installed with a 360° cil and can connect the sump nozzle to the shell nozzle (without rigid piping) in one continuous length regardless of tank size.

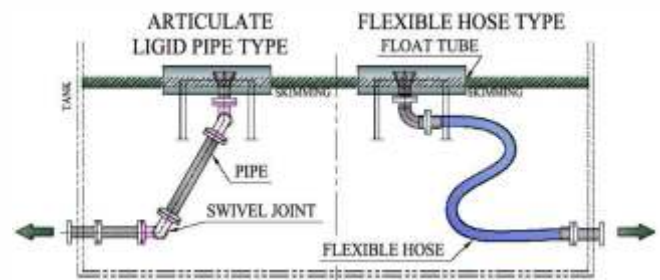
FLOATING SUCTION SYSTEM



TECHNICAL DATA

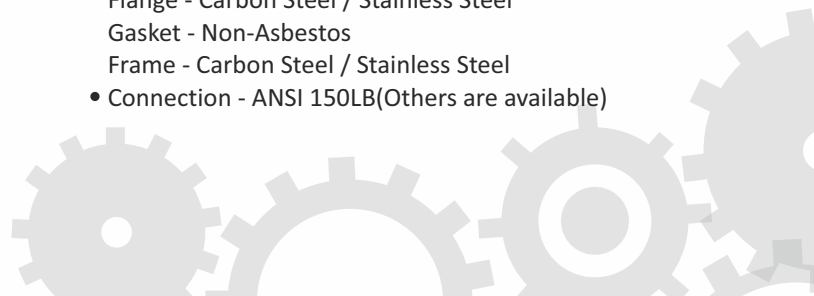
- Material
 - Pipe- Carbon Steel / Stainless Steel
 - Flange - Carbon Steel / Stainless Steel
 - Gasket - Non-Asbestos
 - Frame - Carbon Steel / Stainless Steel
- Connection - ANSI 150LB(Others are available)

OIL SKIMMER SYSTEM



TECHNICAL DATA

- Material
 - Pipe- Carbon Steel / Stainless Steel
 - Flange - Carbon Steel / Stainless Steel
 - Gasket - Non-Asbestos
 - Frame - Carbon Steel / Stainless Steel
- Connection - ANSI 150LB(Others are available)



LOADING ARMS

ARMS ACCESSORIES

We specialize in the engineering, designing and manufacturing of superior quality products for bulk handling of liquids and chemicals. Loading Arms for Tank Trucks & Rail cars. Loading arms are capable to handle all petroleum products, edible oil & food products, most of the hazardous acids & chemicals and also liquefied gases.

Top loading arms are available in many configurations, sizes and MOC as per customers' requirements.

Available sizes are 2", 3", 4" and 6".



JKTD Bottom Loading Arm



JKTD Bottom Unloading Arm



Scissor Arm

[Available Size : 3", 4", 6"]



JKTD Top Loading Arm

Swivel Joint

[Leak Proof 2 years
without Change]



Technical Data

- Size – 3", 4", 6", 8", 10", 12", 14"
- Material – Carbon Steel / Stainless Steel
- Connection – ANSI 150LB (Other connection are available)
- Swing Limit – Full 360°
- Max. Temp - 100°C~230°C
- Max. Pressure – 20kg/cm²G

LOADING ARMS

ARMS ACCESSORIES

Versatile and popular among all bottom loaders. Specifically designed for installations that are being converted from top loading to bottom loading, where loading space is limited. Long hose is used instead of rigid piping on the secondary arm for more flexibility. 4 nos. of swivel joints along with a long hose provides high flexibility and surpass handling comfort to the operators. It makes the connection more quickly so overall loading time is reduced. Hoses are lighter in weight with high flexibility. Specially designed, composite type hose having multilayer elastomeric material, suitable for 100% aromatics and constructed from the layers of polypropylene and polyester films and fabric. Helix wires in both inner and outer surfaces provide rigidity. Both ends of hose are swaged to carbon steel tailpieces with TTMA flanges. Spring balanced either by a Torsion spring or a Compression spring. Counter weighted loader is also available in same configuration. Dependable and low maintenance service.

A. SWIVEL JOINTS:

Swivel joints have double row of ball bearings which assures proper male- female alignment and prevents binding caused by temperature changes or heavy radial loads. Each swivel joint is accurately CNC machined to highly close tolerances. Hence, micro finished and wide- spread row of ball bearing races provides increased load bearing capacity and also, long bearing life. A grease nipple which accepts a standard grease gun is provided between the ball races for periodic field greasing.



B. SPRING BALANCING UNIT:

Spring balancing units are designed and developed for automatic and effortless control for loading arms. Springs are made of specially treated vanadium spring steel of EN-47 having excellent fatigue resistance properties to ensure long life and dependable performance.



C. API COUPLER:

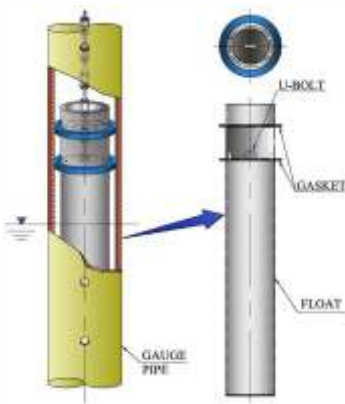
API bottom loading Coupler in accordance with API RP- 1004 is designed for effortless and leak-proof tight connection to the Tank Truck's mating API Adapters. The unit provides dependable and low maintenance service. The coupler contains 3 trigger mechanisms to prevent accidental opening of the valve and 5 interlock lugs for secure holding during loading operations. Hence, unless the coupler is tightly connected to an API adapter, its valve cannot be opened and also, cannot be disconnected unless the valve is closed.



TANK PRODUCTS

TANK ACCESSORIES

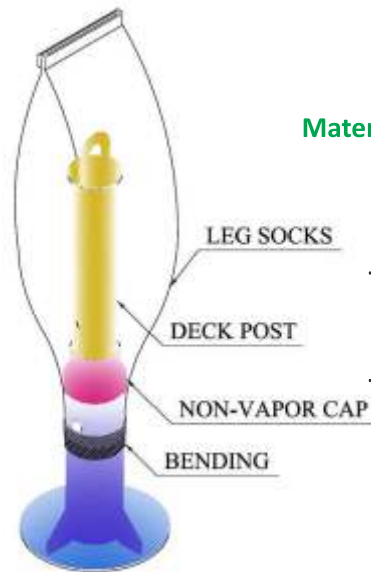
GAUGE POLE FLOAT



Technical Data

- Size – 3", 4", 6", 8", 10"
- Material – Aluminium
- Gasket – N.B.R/P.V.C 5.0t

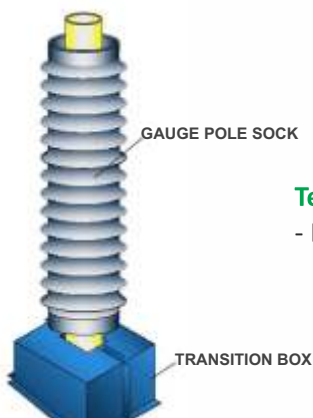
LEG SOCKS



Material Specification

- K-7001 1.0t
(Poly-Urethane Sheet with Polyester scrim)
- K-7047 1.0t
(N.B.R/P.V.C Sheet with Polyester scrim)
- K-7070 0.25t
(Teflon Sheet with Polyester scrim)

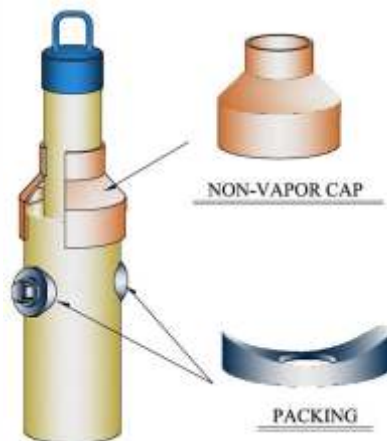
GAUGE POLE SOCK



Technical Data

- Material – Tarpaulin

VAPOR CAP & PACKING



Technical Data

- Material – Neoprene rubber

TANK PRODUCTS

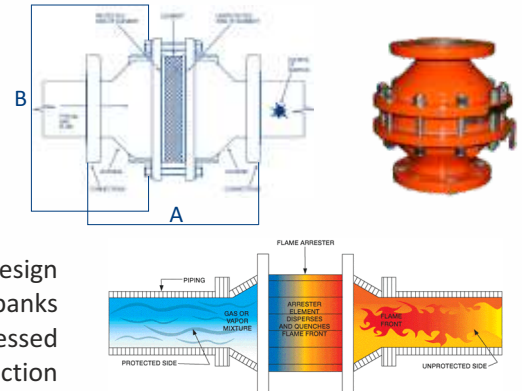
TANK ACCESSORIES

FLAME ARRESTER

- Sizes 2" through 40"
- Available in Aluminium, Carbon Steel, Stainless Steel and other materials
- Wafer Design for quick and easy maintenance
- Its Shapes is such as to give good heat exchanger
- Its stops flame from entering
- Its permits large flow capacities with minimum pressure drop.

Special Features

Our Product is built of corrosion resistance materials through out wafer design construction affords easy accessibility to the flame bank. All arrester flame banks utilizes spiral wound crime ribbon constructed flame elements our special recessed flame bank seating construction uniquely provide an extra measure of protection against leakage and possible flame propagation



BREATHER VALVE



Our Company Offers a wide range of Breather Valve for our esteemed customers. Offered range is easy to configure, used for vacuum and pressure relief, as well as positive flame stop on low pressure tanks including flammable solvents and liquids having a low flash point. Our customers demand and utilize these in a number of demanding applications across the market.

- High Quality
- Corrosion Resistant
- Long Lasting
- Sizes: 2 through 12
- Pressure setting: 1/2 oz/in2 to 15 psig
- Vacuum setting: 1/2 oz/in2 to 12 psig
- Available in Aluminum, Carbon steel, Stainless steel, Fiber glass and other materials

GAUGE HATCH COVER

The Gauging Hatch Cover is designed to provide quick access for product gauging, temperature measurement. The Hatch Cover are self-closing and foot pedal have an inclined tread for added safety.

[Size : 4" , 6" , 8" , 10" , 12"]

MATERIAL OF CONSTRUCTION

BODY : ALUMINIUM
COVER : ALUMINIUM
PADDLE : ALUMINIUM
HINGE : 304 S.S
GASKET : TEFLON



PIPELINE CLEANING MATERIAL

PIPELINE PIGS

Steel Mandrel Pigs

Cup Pigs:

Cleaning Pig



Batching Pig



Magnetic Pig



Bi-Di Pigs:

Gauging Pigs



Dual Dia Pigs



Commissioning Pigs



Foam Pigs

Low Density



Medium Density



High Density



PIPELINE CLEANING MATERIAL

PIPELINE PIGS

Spheres

Rubber Spheres



Foam Spheres



PU Spheres



Inflatable Spheres



Spares



CENTRIFUGAL PUMPS

CORROSION - RESISTANT CENTRIFUGAL PUMP

HORIZONTAL CENTRIFUGAL PUMP

Model D :DIRECT MOUNTED

Direct-mounted (close-coupled) units are mounted directly to the motor rabbit through a stub shaft. This design is ideally suited for 6 pole (1150 rpm), 4 pole (1750 rpm), and most 2 pole (3450 rpm) applications. Motors are available through 75 hp in the TEFC enclosure. Consult the factory for special motor requirements: e.g Mill & Chem, Explosion-Proof, Drip-Proof, Chemical Duty. [\[Light Weight and Space Saving\]](#)

Model F : FLEX MOUNTED

Flexible-coupled units consist of a pump bolted to a bearing pedestal to which power is transmitted by a flexible coupling from a power source. Flexible-coupled units are required by many end users for various reasons: 1) Standard rigid base motor is preferred, 2) c-face motors are not available, 3) ease of motor replacement is important, 4) certain electrical, mechanical or corporate codes require a channel mounted, flexible coupled pump..



VERTICAL CENTRIFUGAL PUMPS

- Vertical Centrifugal Pumps are available with vertical extended shafts in two basic styles. Model VE pumps provided with submerged bearings and Model VEC vertical cantilever shaft pumps with all bearing above the mounting plate and no rubbing parts in the fluid being pumped.
- Model VEC pumps are particularly desirable for fluids with suspended abrasive solids. C-flanged motor mounting is standard.
- VEE type pumps may also be supplied with a special chair mounting.
- Both models may be provided with either bottom or top suction.
- The top suction (see below) avoids pumping residues collected at the bottom of the tank, and in VE models creates a suction rather than a discharge head at the steady bearing, helping to protect the bearing from abrasive materials and preventing material from moving along the shaft. The bottom suction, on the other hand, is ideal if it is desirable to empty the tank completely.



VALVES

Different Types of Valves

A valve is a device that regulates, directs or controls the flow of a fluid (gases, liquids, fluidized solids, or slurries) by opening, closing, or partially obstructing various passageways. Valves are technically fittings, but are usually discussed as a separate category. In an open valve, fluid flows in a direction from higher pressure to lower pressure.

1. BALL VALVE

BALL VALVE - Technical Specification

Size Range	15 NB through 600 NB
Pressure Rating	ASME / BS 150#, 300#, 600#, 800#, 900#, 1500#, 2500#
Type	3 piece/ 2 Piece / 1 Piece / Fire Safe / Non Fire Safe
End Connection	Flanged / RTJ / Victaulic / Screwed / Socket Weld / Butt - Weld
Operation	Wrench / Manual Lever / Manual Gear / Pneumatic and Motorized
Port Opening	Full / Regular
Seat	Metal Seated / PTFE / Carbon or Glass Filled Teflon / Graphite
Ball	Floating / Trunnion mounted
Gasket & Packing	PTFE / Glass Filled Teflon / Graphite / Nylon
MOC	Refer Material Chart
Design Code	BS - 5351 / API 6D
Testing	API 598 / API 607
Inspection	3rd Party / Client / Manufacturer



2. BUTTERFLY VALVES



Butterfly Valve - Technical Specification

Size Range	40 NB through 1200 NB
Pressure Rating	ASME / BS 125# / BS 150# / 300# / PN 10 / PN 16 / PN 25
Type	Center Disc, Single / Double / Triple Offset Disc. fully Lined Body / Unlined Body
End Connection	Wafer / Lugged / Flanged
Operation	Wrench / Manual Gear / Pneumatic and Motorized
Port Opening	Full
Seat	Metal to Metal / Natural / Neoprene / Nitrile / EPDM / Silicon / Vitone Rubber or PTFE
Disc	Solid - Dual Shaft / Single Shaft
Gasket & Packing	Equivalent or better than seat material
MOC	Ref Material of Construction & Pressure - Temperature Table
Design Code	API - 609 / BS - 5155 / AWWA C504
Testing	API 598 / BS 6755 Part - I
Inspection	3rd Party / Client / Manufacturer

3. KNIFE GATE VALVE

Knife Edge Gate Valve - Technical Specification

Size Range	50 NB through 900 NB
Pressure Rating	MSS SP 81 - 150 # / PN 16
Type	OS & Y TYPE
End Connection	Wafer / Lugged / Flanged
Operation	Hand Wheel / Gear Box / Pneumatic Cylinder / Electrical Actuator
Port Opening	Full
Seat	Integral / Renewable Metal to Metal or Soft Seating
Disc	Solid knife type
Gasket & Packing	PTFE / Graphite / Asbestos etc.
MOC	Refer Material Chart
Design Code	MSS SP - 81
Testing	MSS SP - 81
Inspection	3rd Party / Client / Manufacturer



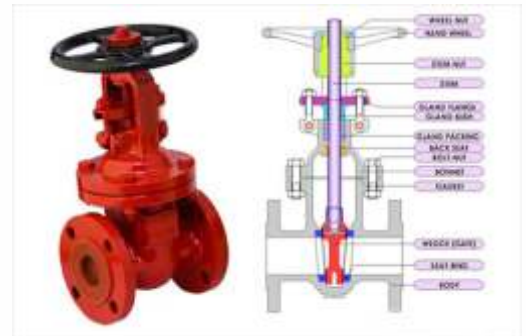
VALVES

Different Types of Valves

4. GATE VALVES

Gate Valve - Technical Specification

Size Range	50 NB through 900 NB
Pressure Rating	ASME - 150#, 300#, 400#, 600#, 900#, 1500#, 2500#
Type	OS & Y, Bolted / Pressure Seal Bonnet / Seal Welded Bonnet etc.
End Connection	Flanged / RTJ / Butt Weld
Operation	Hand Wheel / Manual Gear / Electric Motor Actuator
Port Opening	Full
seat	Integral / Renewable / Seal Welded
Wedge	Solid / Flexible / Dual Disc
Gasket & Packing	PTFE / Graphite / Spiral Wound / Ring Joint
MOC	Refer Material Chart
Design Code	API - 595 / 600 / 603 / 604 / 6D
Testing	API 598
Inspection	3rd Party / Client / Manufacturer



5. GLOBE VALVES

Globe Valve - Technical Specification

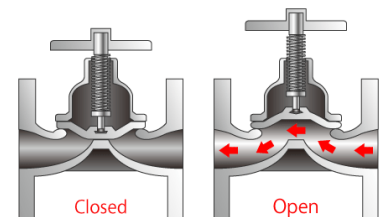
Size Range	50 NB through 400 NB
Pressure Rating	BS- 150#, 300#, 400#, 600#, 900#, 1500#, 2500#
Type	OS & Y, Bolted / Pressure Seal / Seal Welded Bonnet
End Connection	Flanged / Butt Weld
Operation	Hand Wheel / Manual Gear / Electric Motor Actuator
Port Opening	Full
seat	Integral / Renewable / Weld Deposited
Disc	Swivel - Flat / Taper / Control / Parabolic
Gasket & Packing	PTFE / Graphite / Spiral Wound / Ring Joint
MOC	Refer Material Chart
Design Code	BS 1873, DIN - 2401
Testing	BS 6755 Part - I
Inspection	3rd Party / Client / Manufacturer



6. DIAPHRAGM VALVES

Diaphragm Valve - Technical Specification

Size Range	15 NB through 250 NB
Pressure Rating	ASME - 125# / 150# / PN 10 / PN 16 / PN 25
Type	Screw Down - Fully Rubber Lined / Unlined Body
End Connection	Flanged and Threaded
Operation	Hand Wheel / Pneumatic Cylinder / Electric Motor Actuator
Port Opening	Full
seat	Soft Rubber / PFA / Integral
Disc	Equivalent Body Material with Rubber Lining / PTFE Lamination
Gasket & Packing	NA
MOC	Refer Material Chart
Design Code	BS 5156
Testing	API - 598 / BS 6755
Inspection	3rd Party / Client / Manufacturer



VALVES

Different Types of Valves

7. SWING CHECK / NON-RETURN VALVES

Non Return / Check Valve - Technical Specification

Size Range	50 NB through 900 NB
Pressure Rating	ASME - 150# , 300#, 400#, 600#, 900#, 1500#, 2500#
Type	Swing / Lift / Dual Disc / Wafer Disc
End Connection	Flanged / Butt Weld / Wafer
Operation	Automatic With Return Pressure
Port Opening	Full
Seat	Integral / Renewable / Weld Deposited
Disc	Solid
Gasket & Packing	PTFE / Graphite / Spiral Wound / Ring Joint
MOC	Refer Material Chart
Design Code	BS 1868
Testing	BS 6755 / API 598
Inspection	3rd Party / Client / Manufacturer



8. DUAL DISC / PLATE CHECK VALVES



Dual Disc Check Valve - Technical Specification

Size Range	50 NB through 900 NB
Pressure Rating	ASME - 150# , 300#, 600#
Type	Dual Disc Fully Rubber Lined / Unlined Body
End Connection	Sandwich / Flanged
Operation	Automatic With Return Pressure
Port Opening	Full
Seat	Soft - Rubber / Metal to Metal
Disc	Dual Disc Spring Loaded
Gasket & Packing	Graphite / PTFE
MOC	Refer Material Chart
Design Code	API - 594
Testing	API 598
Inspection	3rd Party / Client / Manufacturer

9. SINGLE DISC SPRING LOADED CHECK VALVES

Single Disc Spring Loaded Check Valve - Technical Specification

Size Range	15 NB through 150 NB
Pressure Rating	ASME - 150# , 300#, 600#, 900#, 1500# & 2500#
Type	Single Disc
End Connection	Sandwich
Operation	Automatic With Return Pressure
Port Opening	Full
Seat	Soft - Rubber / PTFE / Metal to Metal
Disc	Solid Disc Spring Loaded
Gasket & Packing	N. A.
MOC	Refer Material Chart
Design Code	DIN - 3230
Testing	API - 598
Inspection	3rd Party / Client / Manufacturer



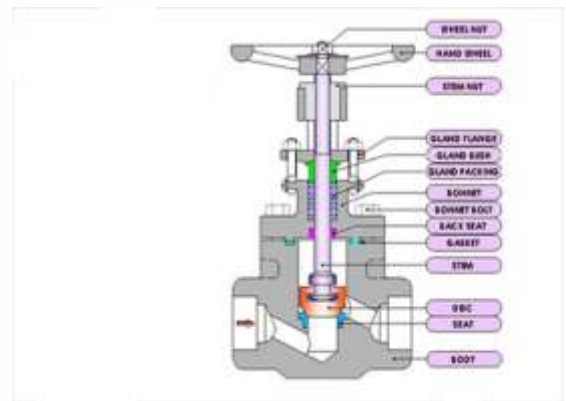
VALVES

Different Types of Valves

10. FORGED STEEL GATE / GLOBE / NRV VALVES

Forged Steel Gate / Globe / NRV Valve - Technical Specification

Size Range	10 NB through 50 NB
Pressure Rating	ASME - 800# through 2500#
Type	Bolted Bonnet / Seal Welded Bonnet OS & Y
End Connection	Screwed / Socket Weld
Operation	Hand Wheel / Electrical
Port Opening	Full / Regular
Seat	Renewable / Seal Welded
Disc	Solid
Gasket & Packing	Spiral Wound / Graphite
MOC	Refer Material Chart
Design Code	API - 602
Testing	API - 598
Inspection	3rd Party / Client / Manufacturer



11. CHOKE VALVES



Choke Valves are specifically designed to meet the worst working conditions in Oil and Gas Exploration Projects. Choke Valves are with adjustable Choke with indicating mechanism. The opening areas of orifices are marked with 1/64th of an inch in different positions. Body, Bonnet, Disc etc are made out of Corrosion and Abrasion resistant Alloy Steels and the Disc and Seat are Hard Faced with selected additional deposition. Long life and Erosion free is ensured in Choke Valves. 'API 6D Valves Gujarat' Choke Valves are being manufactured in API 2000, 3000, 5000 and 10000 pressure ratings.

12. SAFETY RELIEF VALVE

Our company is engaged in the manufacturing of safety valve, which provide protection from over-pressure in steam, gas, air and liquid lines. The valve "lets off steam" when safe pressures are exceeded, then closed again when pressure drops to a preset level.



INDUSTRIAL PIPES, TUBING & CASING



Tubing and Casing

Dimension

Dimension of Tubing: 2-3/8", 2-7/8", 3-1/2", 4" & 4-1/2"

Dimension of Casing: 4-1/2", 5", 5-1/2", 7", 9-5/8", 13-3/8" & 20"

Grade

H40, J55, K55, N80, L80, C90, R95, T95, Q125

Coupling

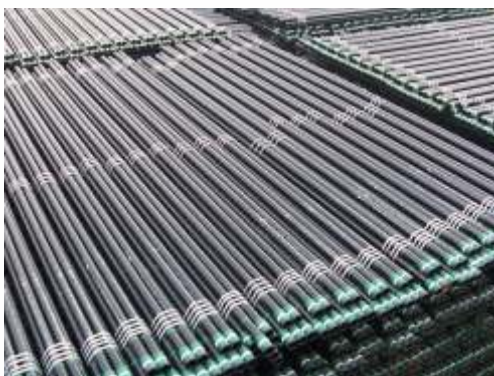
- Standard Coupling
- Special Clearance Coupling
- Special Bevel Coupling
- API Modify Seal-Ring Coupling
- Combination Coupling or Reducing Coupling



Line Pipe

Aiti - Corrosion Coating

According to the different application and customers' requirements, we can provide various coating and lining types contorting to various international standards



Tube for Conveyance of Fluid



Machining Tube and others

Uses

Manufacture of pipelines, vesseles, equipment, pipe fitting and steel structure

Boiler Tube

Uses

For manufacture wall panel, economizer, reheater superheater and steam pipeline of boilers



INDUSTRIAL PIPES & TUBE FITTING

SR. No	ITEMS	DESCRIPTIONS
1	NEEDLE VALVE	Square, Round, Angle, Hex, forged type body and Mini, Compact, Bonnet Model up to 1/4 to 2" Connections and Pressure up to 0 - 20000 psi and Temperature 120,210,330&530 Range
2	MANIFOLD VALVE	2,3 & 5 valve in Remote,Direct, H & T types & Block &Bleed,Multiport Manifolds
3	SYPHONS	Q,U,Pig tail &PGV types 1/4" ,3/8", 1/2" Schedule 40,80,160 tubes, Moc - SS 304,SS 316,CS
4	PULSATION DAMPENER	1/4"< 3/8" & 1/2" (MxF) NPT/BSP/MM Threads
5	AIR HEADES	4 to 30 Port Valve Models With Equal & Offset Types
6	DISTRIBUTION MANIFOLD	From Solid Bar Stock Square,Oblique & Pyramid Types 6 Valve & 12 Valve Models
7	NON RETURN VALVE	Spring Loaded - 1/4" to 1" - Two Different Models
8	THERMOWELL	Screwed,Flanged With Staight & Taper Types
9	GAUGE COCK	2 & 3 Way Types With Connections 1/4", 3/8" & 1/2" BSP, NPT & MM Threads
10	PLUG VALVE	1/4,3/8,1/2 Inch Models with 100Kg/cm2
11	DIAPHRAGM SEALS	Flanged Diaphragm Seals, Compact Type Seals, SMS Connections, Homogenizer, Triclover etc...
12	HI-PRES. NEEDLE VALVE	1/4 TO 3/4 Inch Connections Pressure up to 25000 Psi
13	PIPE FITTINGS	Adaptors, Coupling, End Plug, Hex Nipple, Pipe Pipples End Caps ,Reducers, Unions etc...
14	FLANGES	All Types With any Standards & Sizes
15	TUBE FITTINGS	Male & Female Connector, Male & Female Elbow, Male & Female Branch Tee, Union Cross, Male & Female Run Tee,Male & Female Adaptor, Bulk Head Male & Female,Bulk Head Reducer, Bulk Head Union Union Tee,Connector,Union,Reducing Union,Union elbow,....etc.....

PROCESS CONTROL INSTRUMENTS

PRESSURE GAUGE

Remote Diaphragm Sealed Pressure Gauge Flanged end

Connection :

1/2" to 4" NB ANSI B16.5 / DIN / BS Flanges

Other Connection on Request

Capillary : S S 316 With SS 304 Flexible Armour

Range :

Vacuum / Pressure 0.6 to 70 Kg/cm²



Diaphragm Sealed Pressure Gauge Sanitary Process Connection

Connection :

1" / 1-1/2" / 2" TC End

SMS Union Nut & Male Thread

Homogenizer

Range :

Vacuum / Pressure 0.6 to 30 Kg/cm²

Homogenizer Range upto 1000 Kg/cm²



Compact Welded Diaphragm Sealed Pressure Gauge

Connection :

1/4 / 3/8 / 1/2" BSP / NPT (M)

Other Connection on Request

Range :

Vacuum / Pressure 0.6 to 70 Kg/cm²

High Pressure Sealed Upto 1000 bar



Low Pressure Diaphragm Type Pressure Gauge

Connection :

1/4 / 3/8 / 1/2" BSP / NPT (M)

Flange End Connection

Range : (+ or -) 250 to 6000 mmWC

Optional : External Zero Adjustment

Electrical Contact / Liquid Filled Case



PROCESS CONTROL INSTRUMENTS

PRESSURE GAUGE

Schaffer Diaphragm Type Pressure Gauge

Connection :

1/4 / 3/8 / 1/2" BSP / NPT (M)

Flange End Connection

Range : (+ or -) 1 to 14 Kg/cm²

Optional : External Zero Adjustment

Electrical Contact / Liquid Filled Case



Low Pressure Capsule Type Pressure Gauge

Connection :

1/4 / 3/8 / 1/2" BSP / NPT (M)

Range : (+ or -) 100 to 10000 mmWc

10 mbar to 1000 mbar

Scale Marking mmWC / mbar Dual Scale

Zero Adjustment On Dial



Pressure Gauge With External Zero Adjustment

Connection : 3/8 & 1/2" BSP / NPT (M)

Other Connection on Request

Range :

Vacuum / 0.6 to 2500 Kg/cm²

Optional : Liquid Filled



Safety Pressure Gauge PP Case (Series PPS)

Connection :

1/4"/3/8"/1/2" NPT / BSP (M)

Range :

Vacuum / Pressure 0.6 to 700 Kg/cm²

PROCESS CONTROL INSTRUMENTS

PRESSURE GAUGE

Precision Test Pressure Gauge

Sensing Element : Beryllium Copper Tube
Movement: Jeweled Bearing High Precision
Range
Vacuum / Pressure 0.6 to 700 Kg/cm²



ECO Series Bourdon Type Liquid Filled Pressure Gauge

Connection : 1/4" BSP (M)
For 100 & 150mm 3/8" BSP (M)
Range : Vacuum / 1 to 420 Kg/cm²

Commercial Pressure Gauge

Connection :
40mm - 1/8" BSP / NPT (M)
50 to 80mm - 1/8" & 1/4" BSP / NPT (M)
80 to 150mm - 3/8" BSP / NPT (M)
200 to 250mm - 1/2" BSP / NPT (M)
Range : Vacuum / 1 to 700 Kg/cm²



Accessories for Pressure Gauges

Snubber / Pulsation Dampener
Syphon Tube
Gauge Saver / Gauge Protector
Gauge Cock / Isolation Valve
Needle Valve / Flow Control Valve
Manifold Valve
Cooling Tower for Pressure Gauge
MOC : SS 304 / 316

PROCESS CONTROL INSTRUMENTS

PRESSURE GAUGE

Industrial Heavy Duty Weather Proof Pressure Gauges

Connection :

50/63/80mm : 1/8 & 1/4" BSP / NPT (M)

100 to 250mm : 1/4 / 3/8 / 1/2" BSP / NPT

Other Connection on Request

Range :

Vacuum / 0.6 to 2500 Kg/cm²



Industrial Heavy Duty Liquid Filled Pressure Gauge

Connection :

50/63/80mm : 1/8 & 1/4" BSP / NPT (M)

100 to 250mm : 1/4/3/8/1/2" BSP / NPT

Other Connection on Request

Range :

Vacuum / Pressure 0.6 to 2500 Kg/cm²

Diaphragm sealed Pressure Gauge (Thread Connection)

Connection :

1/4 / 3/8 / 1/2" BSP / NPT (M)

Other Connection on Request

Range :

Vacuum / Pressure 0.6 to 400 Kg/cm²



Diaphragm sealed Pressure Gauge (Flange End)

Connection :

1/2" to 4" NB ANSI B16.5 / DIN / BS Flanges

Other Connection on Request

Range :

Vacuum / Pressure 0.6 to 70 Kg/cm²

PROCESS CONTROL INSTRUMENTS

TEMPERATURE GAUGE

Bimetal thermometer with switch contacts

Special Features

- High reliability and long service life
- Universal application
- Case and stem material stainless steel
- Gauges with inductive contacts for use in hazardous areas with ATEX approval
- Gauges with electronic contacts for PLC applications



Expansion thermometer with electrical output signal

Special Features

- Case and stem from stainless steel
- Nominal size 63, 100
- Scale range -40 ... +250°C
- Easy-to-read analogue indication
- Electrical output signal e.g. 4 ... 20 mA

Gas-actuated thermometer with electrical output signal

Special Features

- Cost-effective “2 in 1” temperature measurement
- Compact design
- Application ranges from -200 ... +700 °C
- “Plug-and-play”, thus no transmitter configuration necessary



Expansion thermometer with micro switch and capillary

Special Features

- Case and stem from stainless steel
- Version per DIN EN 13190
- High switching reliability and long service life
- Temperature controller and indicator in a single instrument

PROCESS CONTROL INSTRUMENTS

TEMPERATURE GAUGE

Gas-actuated thermometer with switch contacts

Special Features

- Instruments meet the highest standards of measurement technology
- Case and stem from stainless steel
- For external mounting on pipes and tanks
- Gauges with inductive contacts for use in hazardous areas with ATEX approval
- Gauges with electronic contacts for PLC applications



Gas-actuated thermometer with switch contacts

Special Features

- Dead-space free, hygienic version
- Aseptic process connections
- Material and surface finish quality in accordance with pharmaceutical industry directives and standards
- Gauges with inductive contact for use in hazardous areas with ATEX approval

Mini temperature switch

Special Features

- No power supply needed for switching of electrical loads
- Setting ranges from -15 ... +20 °C to 180 ... 250 °C
- Intrinsic safety Ex ia available
- 1 set point, SPDT, high switching power up to AC 250 V, 5 A



Gas-actuated temperature switch

Special Features

- No power supply needed for switching of electrical loads
- Setting ranges from -30 ... +70 to 0 ... 600 °C
- Ex ia version available

PROCESS CONTROL INSTRUMENTS

TEMPERATURE GAUGE

Compact temperature switch

Special Features

- No power supply needed for switching of electrical loads
- Robust switch enclosure from aluminium alloy or stainless steel, IP 66, NEMA 4X
- Setting ranges from -30 ... +10°C to 160 ... +250°C
- Ex ia version available
- 1 set point, SPDT or DPDT, high switching power up to AC 250 V, 15 A



Mini temperature switch

Special Features

- No power supply needed for switching of electrical loads
- Setting ranges from -15 ... +20 °C to 180 ... 250 °C
- Repeatability of the set point $\leq 1\%$ span
- 1 set point, SPDT, high switching power up to AC 250 V, 5 A
- Direct mounting or remote mounting with capillary ≤ 10 m

Compact temperature switch

Special Features

- No power supply needed for switching of electrical loads
- Setting ranges from -30 ... +10 °C to 160 ... 250 °C
- Repeatability of the set point $\leq 1\%$ span
- 1 set point, SPDT or DPDT, high switching power up to AC 250 V, 15 A



Gas-actuated temperature switch

Special Features

- No power supply needed for switching of electrical loads
- Setting ranges from -30 ... +70°C up to 0 ... 600 °C
- Robust switch enclosure from aluminium alloy, IP 66, NEMA 4X

PROCESS CONTROL INSTRUMENTS

TEMPERATURE GAUGE

Bimetal temperature switch

Special Features

- Fixed switching temperature
- Current-independent switching
- Automatic reset
- No additional voltage supply
- Simple and fast mounting



Expansion thermometer with micro switch

Special Features

- Temperature regulator and indication in one gauge
- High switching safety and life span

Expansion thermometer

Special Features

- High switching reliability
- Temperature display and safety limiter in one instrument
- Switch-off after measuring line breakage



Expansion thermometer

Special Features

- High switching reliability
- Temperature display and safety controller in one instrument
- Monitoring of measuring line breakages

PROCESS CONTROL INSTRUMENTS

TEMPERATURE GAUGE

Expansion thermometer

Special Features

- High switching reliability
- Temperature indicator and safety temperature monitor in a single instrument
- Version per DIN EN 14597
- Overtemperature safe up to 600 °C



Bimetallic thermometer

Special Features

- Accuracy class 2
- Nominal size 63, 80, 100 and 160
- Scale ranges from -30 ... +50 °C to 0 ... +120 °C

Bimetal thermometer

Special Features

- Scale ranges from -30 ... +250 °C
- Nominal size 63, 80 and 100
- Different connection designs



Bimetal thermometer

Special Features

- Reliable and cost-effective
- Indication accuracy class 2 in accordance with EN 13190
- Scale ranges from -30 ... +120 °C

PETROLEUM PRODUCTS

BITUMEN



Paving Grades
Building Grade

BITUMEN VG 30

Characteristic	Test Method	Value
Absolute Viscosity at 60°C Poises	IS 1206	2400-3600
Kinematic Viscosity at 135°C cSt	IS 1206	Min 350
Flash Point (Cleveland open Cup) °C	IS 1448	Min 220
Solubility in Trichloroethylene, %	IS 1216	Min 99.0
Softening Point. (R&B), °C	IS 1205	Min 47
Penetration @25 °C, 0.1 mm, 100g, 5 sec	IS 1203	Min 45
Test on Residue from TFOT / RTFOT		
Viscosity ratio @ 60°C	IS 1206	Max 4.0
Ductility @25 °C (CM)	IS 1208	Min 40

PETROLEUM PRODUCTS

BITUMEN

BITUMEN 60/70

Characteristic	Value	Test Method
Specific Gravity @25/25°C	1.01-1.06	ASTM D-70
Penetration @ 25°C	60-70	ASTM D-5
Softening Point °C	48-56	ASTM D-36
Ductility 2 25 °C	100 min	ASTM D-113
Loss on Heating %wt	0.2 max	ASTM D-6
Drop in Penetration after Heating %	20 max	ASTM D-6 & D-5
Flash Point °C	250 min	ASTM D-92
Solubility in CS2 %wt	99.5 min	ASTM D-4
Spot Test	Negative	A.A.S.H.O.T. 102*
American Association of State Highway Officials		



PETROLEUM PRODUCTS

OTHER PRODUCTS

CRUDE OIL MAIN PRODUCT

- Iranian Heavy Fuel Oil (HFO) for 280 and 380 Cst.
- Iranian Gas-Oil
- Iranian LPG for various cargo size, from 3KT (Pressures) to 44 KT (Hydrogenics)
- Iranian Heavy Naphtha
- Iranian Jet Kerosin
- Turkmenistan Heavy Fuel Oil (HFO) M 100 for low and medium sulfur
- Turkmenistan Gas-Oil, for low and medium sulfur

PETROCHEMICAL PRODUCT

- Methanol
- Various Grade of HDPE
- Various Grade of LLDPE
- Various Grade of Poly propylene
- Various Grade of PVC

LUBRICANT PRODUCT

- Iranian Base Oil SN-500
- Iranian Wax
- Turkmenistan Bas Oil SN-180 , SN-350

ENERTECH GLOBAL

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