



Industrial
Engineering
Experts

Company Profile



Industrial Engineering Experts

2025





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Engineering
Experts



Iee for a better life

Foreword

IEECO is a leading provider of Advanced Automation products and solutions offering true knowledge and experience in delivering world-class automation and control solutions.

We Improve Business Performance

With solutions that increase safety and efficiency by applying industry-leading engineering and technical know-how, flexibility of thinking and resources to meet and exceed every client's expectations.

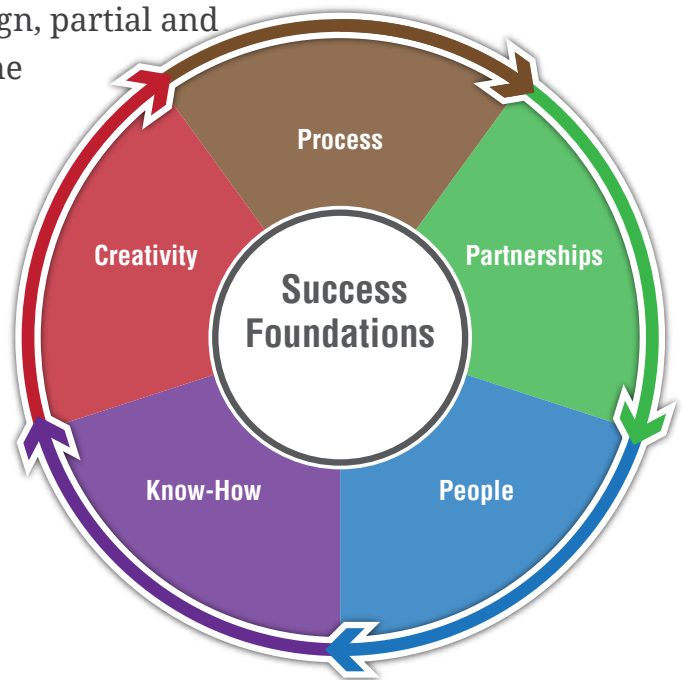


ABOUT IEECO

IEECO is a quality driven advanced automation company that has been providing and implementing consultation, design, partial and turnkey automation solutions and EPIC projects in the KRG,IRAQ since 2012.

Mission

We deliver state-of-the-art integrated automation and control solutions that optimally invest all available resources for an easier, safer, and environmentally friendly life.



Vision

IEECO vision is to be one of the top 10 automation solutions providers in the region.

Values



We bridge the gap between ERP and industries



The infographic features a central white circle with the text "OUR KEY INDUSTRIES" in orange. Six colored circles are connected to this central hub, each representing an industry: OIL & GAS (dark grey), MINING & CEMENT (brown), FOOD & BEVERAGE (red), AGRICULTURE & IRRIGATION (purple), WATER & WASTEWATER (blue), and BUILDING AUTOMATION (green). The background is a faded image of an industrial facility with tall distillation columns and complex piping. The top and bottom of the image are decorated with orange and grey wavy borders containing white circles.

OUR KEY INDUSTRIES

OIL & GAS

MINING &
CEMENT

FOOD &
BEVERAGE

AGRICULTURE
& IRRIGATION

WATER &
WASTEWATER

BUILDING
AUTOMATION



Our solutions for the Oil & Gas industry include:

- Control and monitoring: DCS, SCADA, HMI, PLC, ESD, BMS, F&G.
- Tank Gauging and Inventory Management.
- Terminal automation System.
- Fuel automation solutions.
- Pipelines leak detection monitoring system.
- Fiscal Metering Station (FMS).
- Control rooms and dispatching centers.

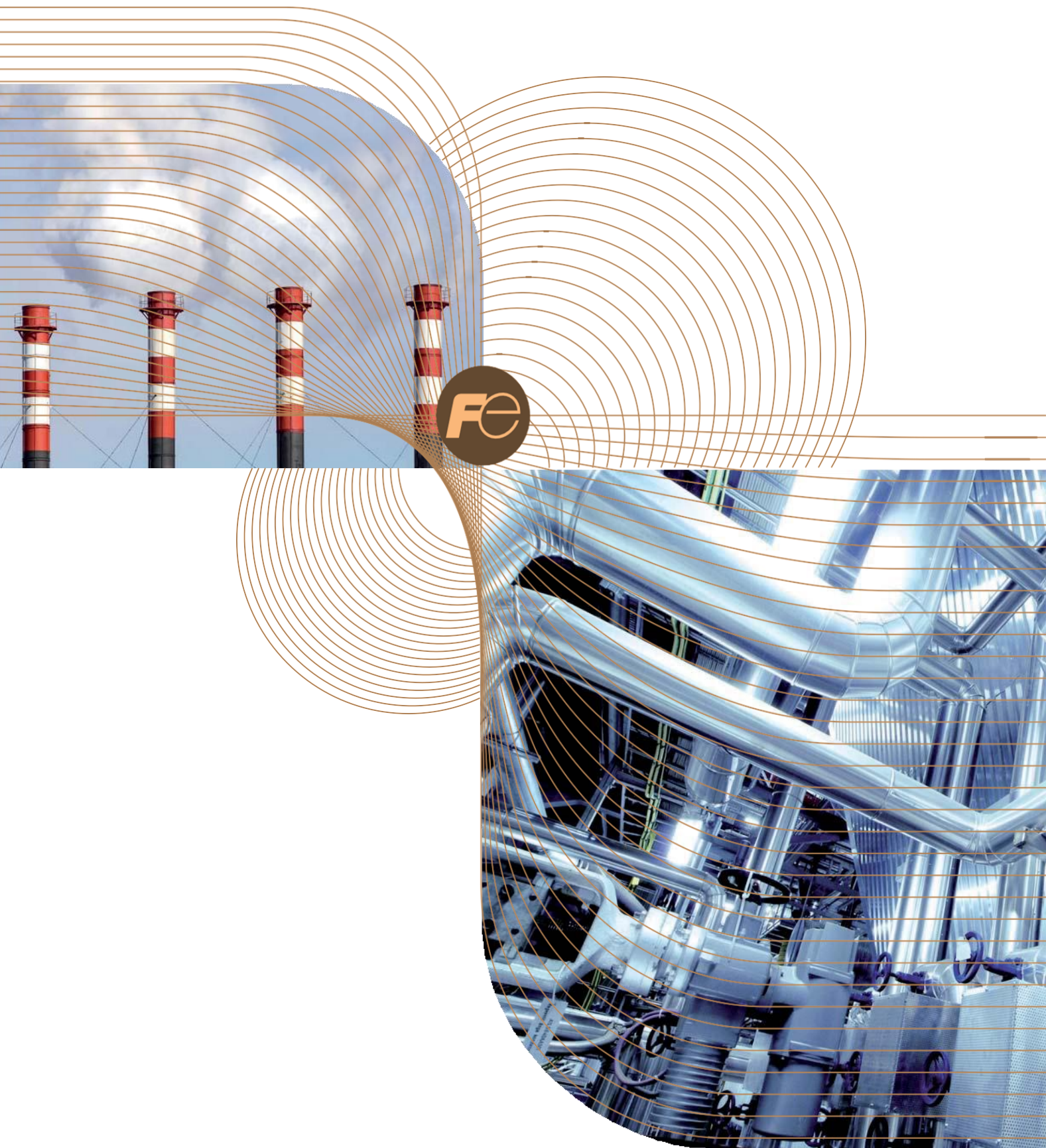
Engineering

As a professional consultative services provider on control, automation, and instrumentation we take full responsibility for defining the targets, discovering the options and making an informed system decision in order to provide complete customer satisfaction.

» Consultation and Studies

- Site survey.
- Recording and analysis of the requirements.
- Design study.
- Project schedule.
- Functional specification for the control system.
- Control strategy and operational concept.
- List of IOs and components.
- Measuring point descriptions with corresponding process information.
- Network design.
- Electrical diagrams.
- Selection of devices and components.
- Cabinet design and construction.
- Programming of controller.
- Design and configuration of the HMI/SCADA system.
- Network configuration.
- Documentation, e.g. detailed measuring point descriptions, installation instructions.
- Factory Acceptance Test (FAT).

Instrumentation &
measurement solutions



Fuji Electric France S.A.S.

Pressure measurement

Differential, gauge and absolute pressure transmitters
Hydrostatic level measurement
Orifice plate flow measurement
Seal mounted



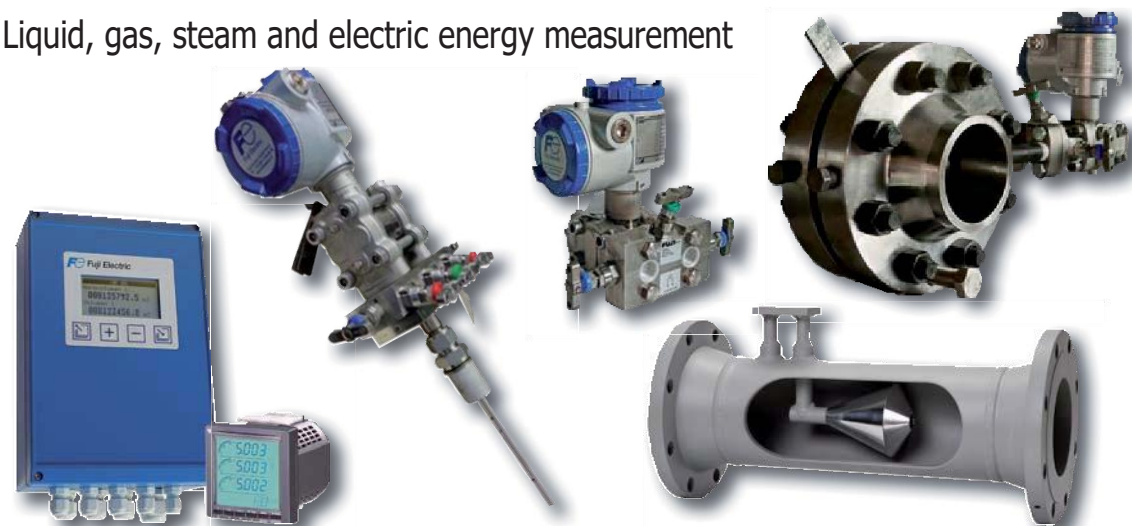
Flow measurement

Electromagnetic, vortex and ultrasonic flowmeters



Energy measurement

Liquid, gas, steam and electric energy measurement



Gas analysis

Zirconia oxygen gas analyzers
Non dispersive infrared gas analyzers
In-situ laser gas analyzers
Continuous Emission Monitoring systems (CEMs)



Monitoring & Control

Temperature sensors
Signals convertors
Paper or video recorders
Temperature and process control
Touch screen display (HMI)



Measurement Instruments Portfolio



In-Line Pressure
Transmitter



Radar Level Transmitter



Coplanar Pressure Transmitter



Ultrasonic Level
Transmitter



Rosemount 114C Thermowell



RTD Temperature Sensor



Head Mount Transmitter



Magnetic Liquid
Level Gauges



Non-Contacting
Radar Level TX



Differential Pressure FT



Multivariable Flow Transmitter



Diaphragm Seal
Level TX



Level Detector Vibrating Frk



Annubar Flow Transmitter



Orifice Plate Flow Transmitter



Integral Orifice Flow
Transmitter

A pump is a mechanical device used to move liquids, gases, or slurries from one location to another by using mechanical energy to force the fluid through a pipe or system. There are various types of pumps, each designed for specific tasks, but the basic principle is the same — to move a fluid

Horizontal suction pump



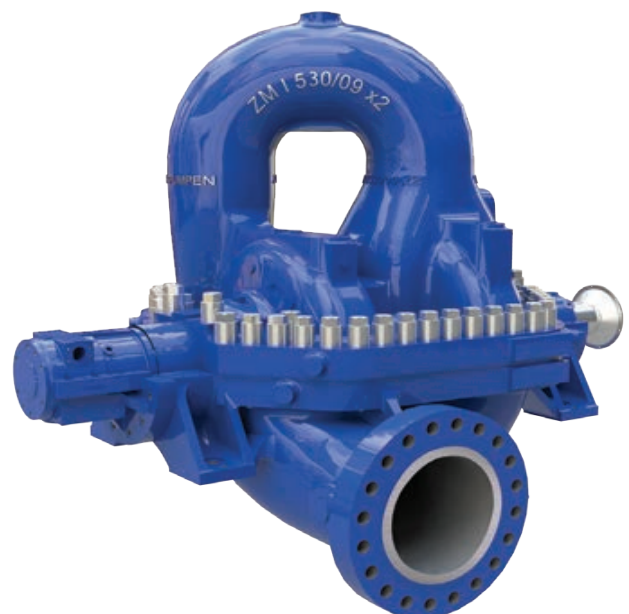
Horizontal, single stage, split case pumps



Single-stage process pump, radially split.



API process pumps, single or two-stage, axially split.



CRP-M

Sealless process pump with magnetic drive acc. to DIN EN ISO 2858 & 15783



CHARACTERISTICS AND DESIGN FEATURES

- Complies with DIN EN ISO 2858 and 15783
- Pump with permanent magnetic drive, sealless - no mechanical seal required
- Hermetically sealed by containment shell for environment protection
- Horizontal, single stage, end suction, foot mounted, back pull-out design
- Balanced axial thrust over complete operating range up to $Q_{opt} \times 1,5$
- Well-defined pressurized internal flush flow
- Self-cleaning internal and mainstream filter

CPP / CPP-L / CPO / CPO-L

Single stage, end suction, ANSI process pumps

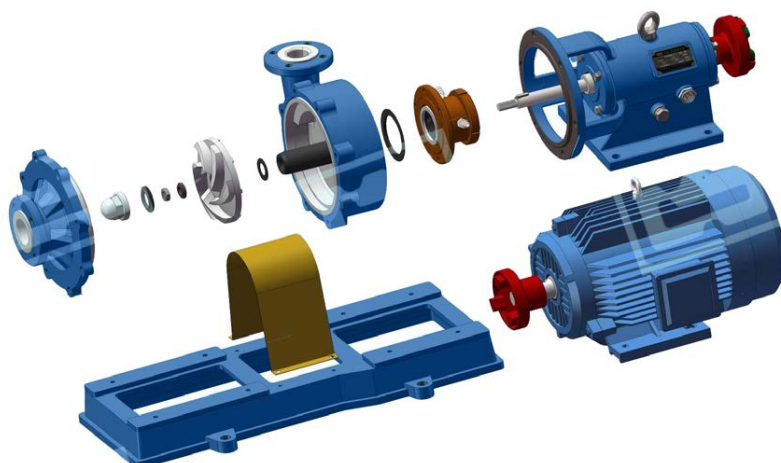


CHARACTERISTICS AND DESIGN FEATURES

- HI design (OH1), compliant with the ANSI / ASME B73.1 specification
- Enhanced hydraulic design for low NPSH requirements
- Back pull-out design for ease of maintenance
- C-Frame option is available
- Optional cooling jacket and cooling coil for high temperature applications
- Available in ductile iron, stainless steel, duplex and alloy 20 (other materials on request)
- CPP-L and CPO-L models for low-flow, high-head applications

SPP

Horizontal, Plastic Lined Mining Process Pump

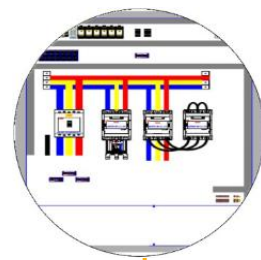




SWITCHGEAR

IEECO combine experience, quality and service to provide reliable, cost effective MV indoor and outdoor, Pad Mounted Switchgear units to our customers specification.

Our Switchgear products range from 11kV up to 132kV.



VALVE



Gate, Globe & Check Valves - ASME Class 600 to 4100

high pressure range of gate, globe & check valves conform to ASME B16.34. The valves are of pressure-seal design and have innovative features that enhance performance and plant safety. The valves can be supplied with IBR certification.

Cast Yoke Construction

Gate and globe valves are of cast-yoke construction, where the operator is connected to the body with a robust cast yoke. Single piece cast yoke is precisely machined and located on the body neck and serves to withstand severe operating loads without compromising the alignment of the stem and operator during active performance

Pressure-seal Body-bonnet Design

In this design, line pressure is used to create a high integrity body-bonnet seal - the higher the pressure, the better the sealing. The bonnet is held in place by a split-retainer and pre-loaded against it using the bonnet bolts and retainer plate. This arrangement provides tight seal at low pressures also. Knockout holes are provided in the body for disassembly of segmental retaining ring.

Welded Seat Ring

In gate and check valves, seat rings are seal-welded to the body. This eliminates leakage path between seat ring and body as well as accidental loosening due to temperature fluctuations or vibrations.

Port Design

For gate, globe and check valves, the standard product offering is as per MSS SP-144 Style A. Adequate wall thickness and enhanced flow parameters are the characteristics of this design. Gate valves are offered in reduced-bore design also.

Hard-faced Trim

Disc, seats and back-seat (for gate and globe valves) are hard-faced with Stellite 6 or equivalent. As a standard, the valves are offered with a hard-facing thickness of 1.6 mm to ensure long and trouble-free service life.



Gate, Globe & Check Valves - ASME Class 150 to 600

IEECo, offers a versatile range of cast steel gate, globe and check valves in bolted bonnet construction. The gate and globe valves are of outside screw-and-yoke design. The check valves are swing-type. This range is available with flanged and butt-weld ends and can be supplied with IBR certification.

Stem

Single-piece forged stems are used in gate and globe valves for superior strength. In a gate valve, the forged T-head engages with a slot in the disc. The globe valve disc is fitted to the stem using a disc nut, which allows the disc to swivel and align with the seat.

Disc

Gate valve discs are of single-piece cast flexible wedge design. In these torque-seated valves, the flexible wedge compensates for seat distortion and eliminates disc-jamming.

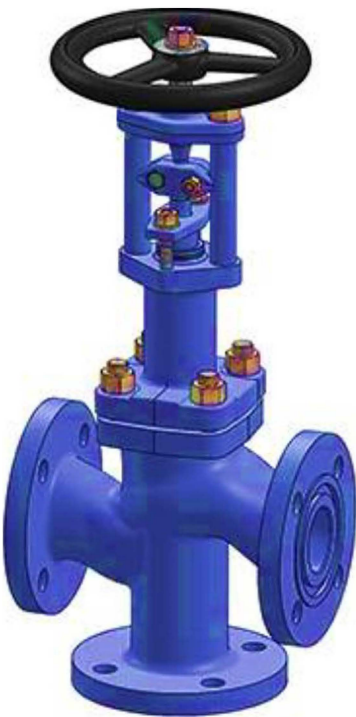
Seat

In gate and check valves, seat rings are seal-welded to the body. This eliminates leakage path between seat ring and body as well as accidental loosening due to temperature fluctuations or vibrations.

Body-bonnet Joint

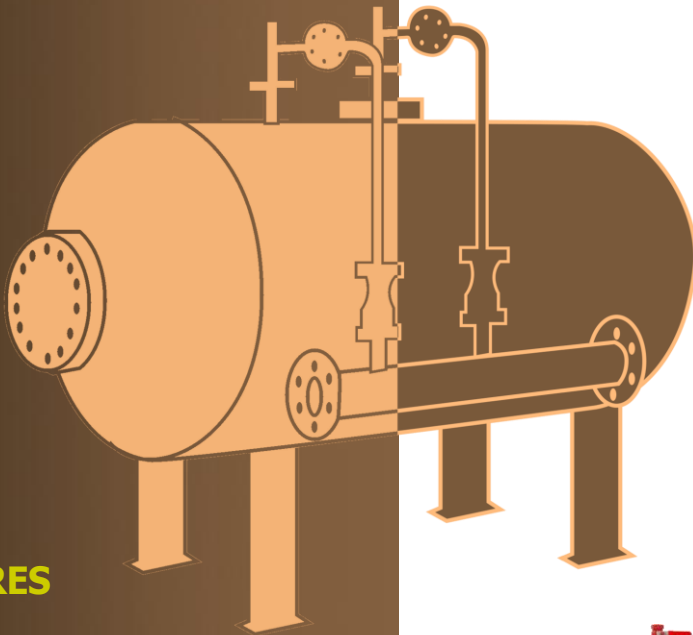
Class 150 gate valves in sizes 3" and above are offered with oval-shaped body-bonnet joints. As a standard, 2" gate valves as well as globe and check valves have circular body-bonnet joints.





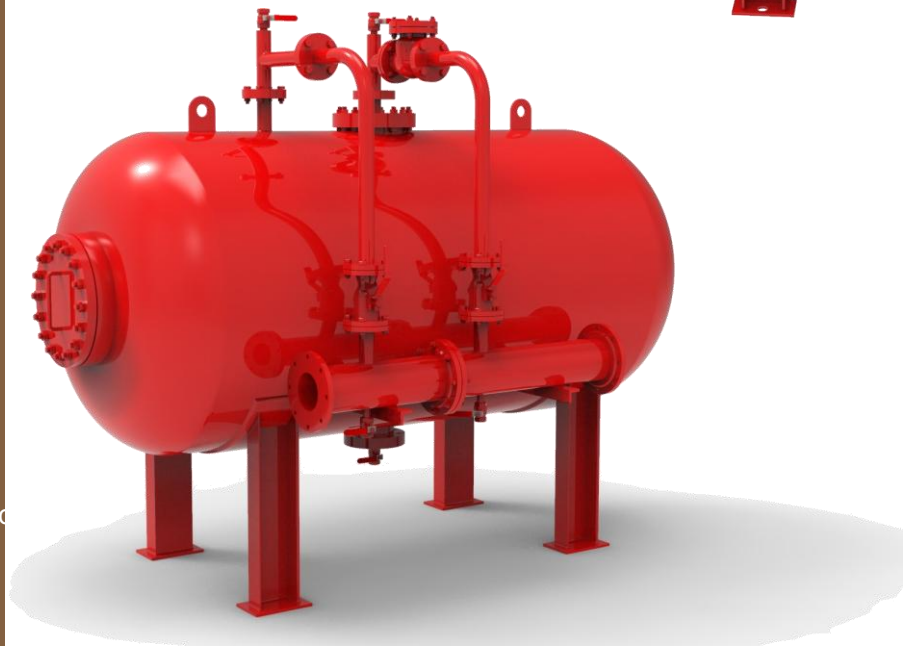
FOAM SYSTEM

FOAM PROPORTIONING UNIT



FEATURES

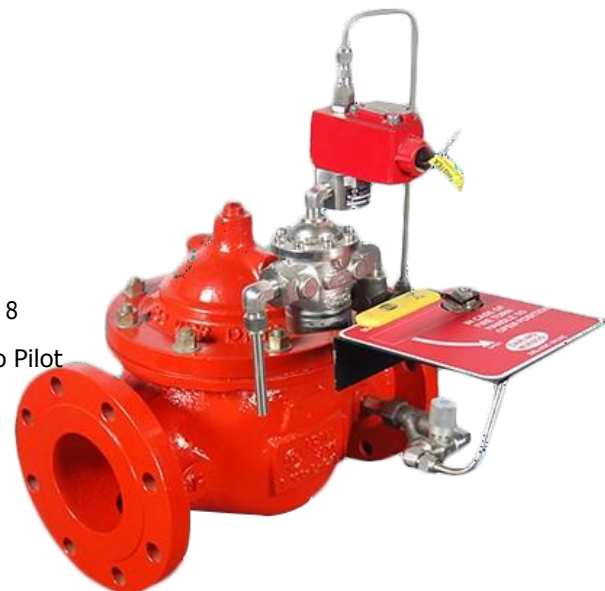
- ◆ UL LISTED with AFFF-3% & AR-AFFF3% Foam Concentrates
- ◆ Designed & Constructed as per ASME Sec.VIII Div.1 (Optional - ASME U Stamped)
- ◆ Largest Range of Capacities (200 Liters to 15000 Liters) in Vertical & Horizontal Mounting
- ◆ Largest Range of Ratio Control
- ◆ Widest Flow Range (75-20,000 LPM)
- ◆ Lowest Proportioning Losses
- ◆ Nylon reinforced nitrile foam bladder is UL Listed with AFFF& AR-AFFF Foam
- ◆ Concentrate & compatible with all types of foam concentrates
- ◆ High reliability and design simplicity minimizes chances of system failure
- ◆ Manual I automatic operation
- ◆ Horizontal I Vertical Mounting
- ◆ Low installation cost



PNEUMATIC/HYDRAULIC

Model No: XT-4080P

- UL Listed - XT-4080P Size 4" 6" & 8
- Quick response to Air supply to Pilot
- No Gland Packing
- Dry Pilot Trim when air is used for sprinkler system

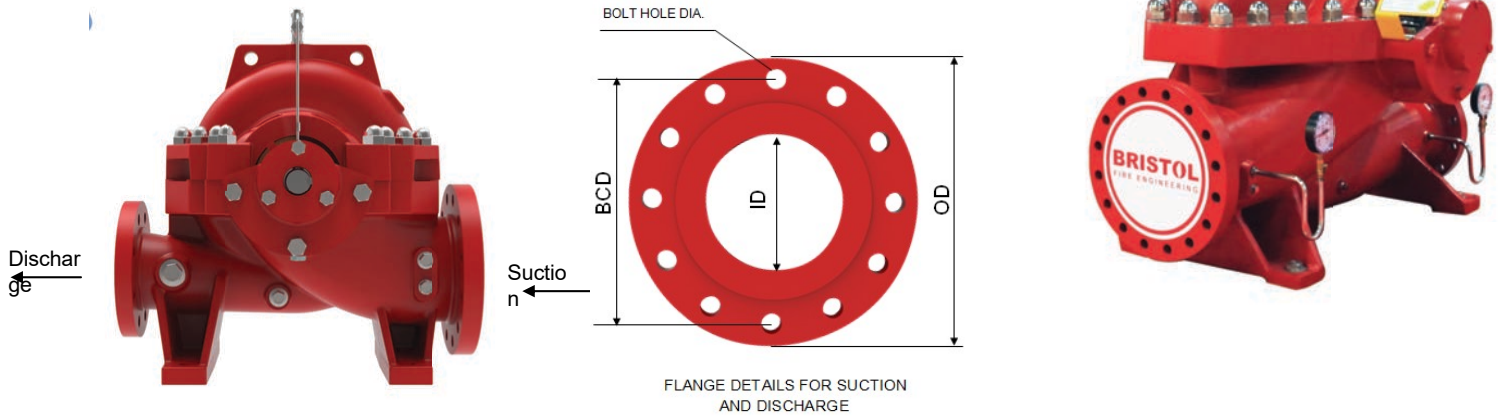


FIRE PUMPS

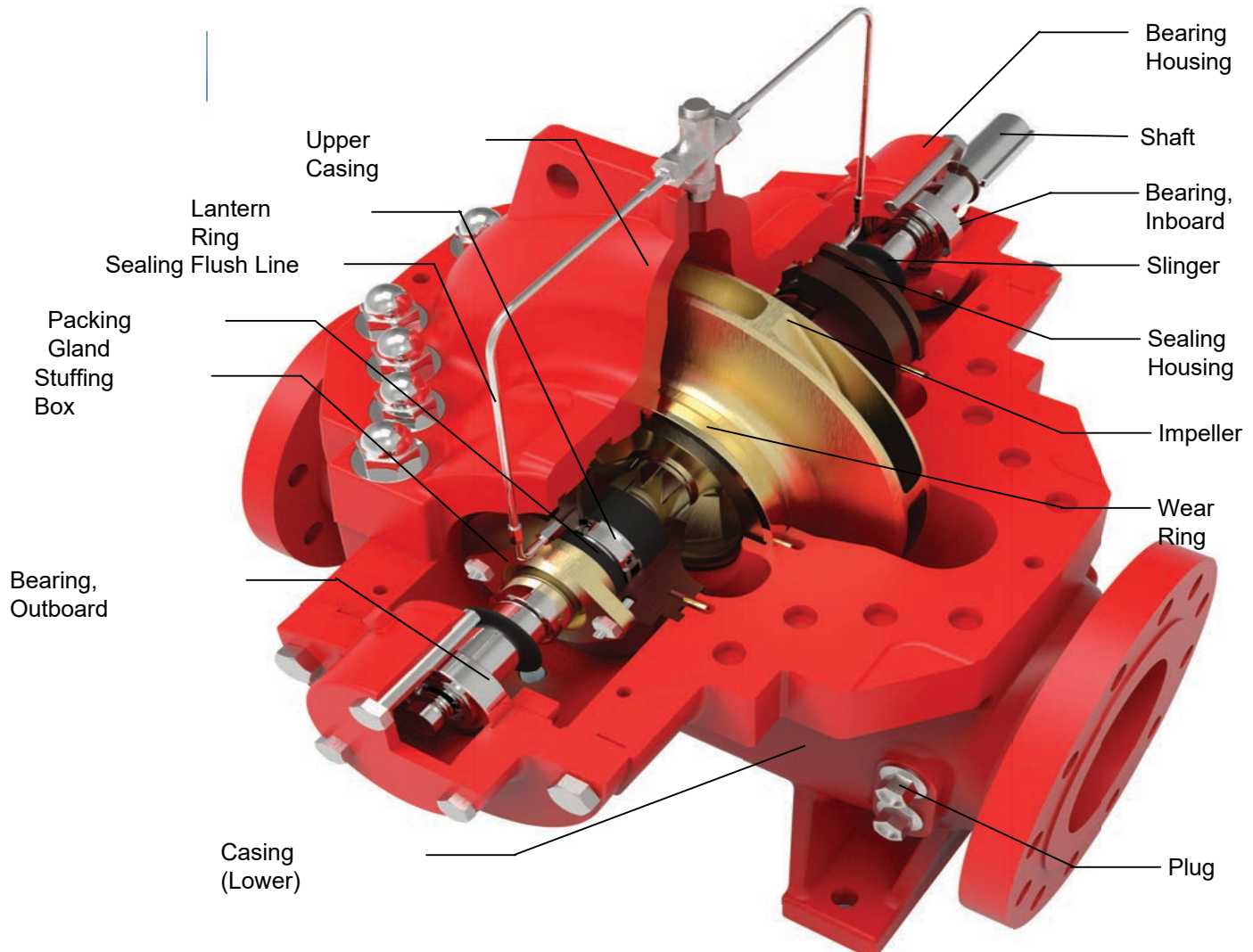
HORIZONTAL SPLIT CASE, END SUCTION, VERTICAL TURBINE,

CONTAINERIZED PUMP, PACKAGED FIRE PUMP, FUEL TANK & ANTI-VORTEX PLATE

Horizontal Split Case Pump Flange Dimension



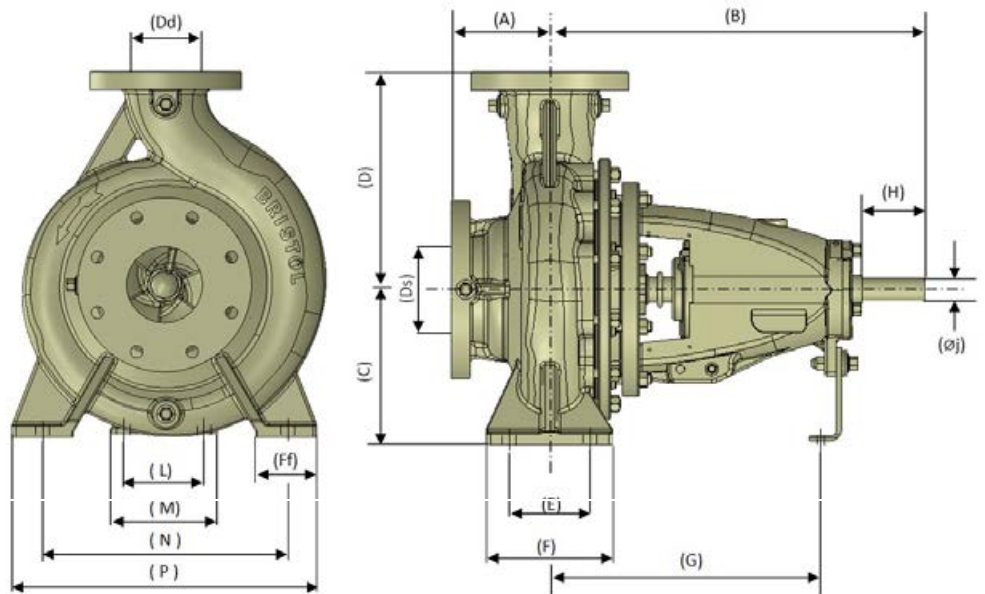
Horizontal Split Case Pump Components



END SUCTION TYPE



Pump Dimensions



Description

Are designed according to NFPA 20 for firefighting applications. This pump is designed with latest technology and has premium components for easy maintenance and absolute efficiency .

Features

- Available in electric motor driven or engine driven configuration
- UL File No. : EX16459
- Dynamically balanced impellers

Performance Range

- Capacity : From 50 GPM up to 1000 GPM
- Head : From 50 MTR up to 209 MTR

Cables and Wires

Electrical cables and wires are essential components in electrical systems, used to transmit electrical power and signals. While both terms are often used interchangeably, they have distinct meanings:

Wires: A single conductor (usually copper or aluminum) that carries electricity. Wires can be insulated or bare.

Cables: A group of wires bundled together, often insulated, to provide a secure and efficient electrical connection.

Types of Cables:

- 1-Non-Metallic (NM) Cable (Romex) – Used for indoor residential wiring.
- 2-Underground Feeder (UF) Cable – Designed for underground and wet locations.
- 3-Armored Cable (BX or AC) – Has a metal sheath for protection in exposed areas.
- 4-Coaxial Cable – Used for cable television and internet connections.
- 5-Twisted Pair Cable – Common in networking (e.g., Cat5e, Cat6 for Ethernet).
- 5-Fiber Optic Cable – Uses light signals for high-speed data transmission



OUR GOAL

It is our goal and commitment to bring you the best quality service. We are constantly improving by attending seminars and updating certifications. Select, inspect then decide. Not following this guideline can result in unforeseen problems and expenses.

OUR TEAM

Our team is composed of highly qualified and experienced professionals.

Our employees have experience in witnessing and verification of Factory Acceptance Tests, technical inspection before putting into operation and regular periodical inspection of electrical power facilities, electrical products and devices, and inspection of products, protective systems and installations for use in potentially explosive atmospheres (EX equipment).

Also, we have team of proven experts for conduction training for operation with electrical and equipment for explosive atmospheres (ATEX).



EQUIPMENT LIST

The list contains test instruments for power equipment (power and instrument transformers, generators, motors, etc.); transformer oil filtering, degasation and drying unit; test instruments protection relays; test instruments for cables; test instruments for grounding systems and other types of instruments. **To view the full list of equipment, please visit:**



Brand: Omicron
Model: CPC 100 & CP TD 1
Use: Primary Test System & Transformer Diagnosis



Brand: Megger
Model: FRAX 99
Use: Sweep Frequency Response Analyzer



Brand: Omicron
Model: TESTRANO 600
Use: Three-Phase Test System for Comprehensive Power Transformer Testing



Brand: Omicron
Model: CP TD12/15
Use: Module for Capacitance and Dissipation Factor Measurements



Brand: Omicron
Model: DIRANA
Use: FDS-PDC + dielectric insulation analyzer



Brand: Megger
Model: OTs80AF
Use: Measuring Insulating Oil Breakdown Voltage

Our International Brands

azbil

invensys
FOXBORO

EMERSON

KUMWOO

Allen-Bradley
by ROCKWELL AUTOMATION

WIKA

ABB

MITSUBISHI MOTORS

SMC

OMRON

Baker Hughes

ASHCROFT

FLUKE

Fuji Electric

Honeywell

Schneider Electric

LESER

auma

FISHER

Parker

Danfoss

NORGREN

YOKOGAWA

GE

KSB

SIEMENS

GRUNDFOS

MILTON ROY

Ingersoll Rand

Swagelok

PHOENIX CONTACT

FLOWSERVE

S. A. M. P. I.
METERING EXPERTS

MSA

JC VALVES

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**Committed to
serving you with
excellence**