

اسپر لوس توسعه آبادانا

Esperlos Tose'e Apadana

ENGINEERING, PROCUREMENT & CONSTRUCTION

INSTRUMENTATION AND CONTROL



System
Automation
Industrial

اسپر لوس توسعه آپادانا
ESPERLOS TOSE' E APADANA



ETA

Esperlos Tose'e Apadana



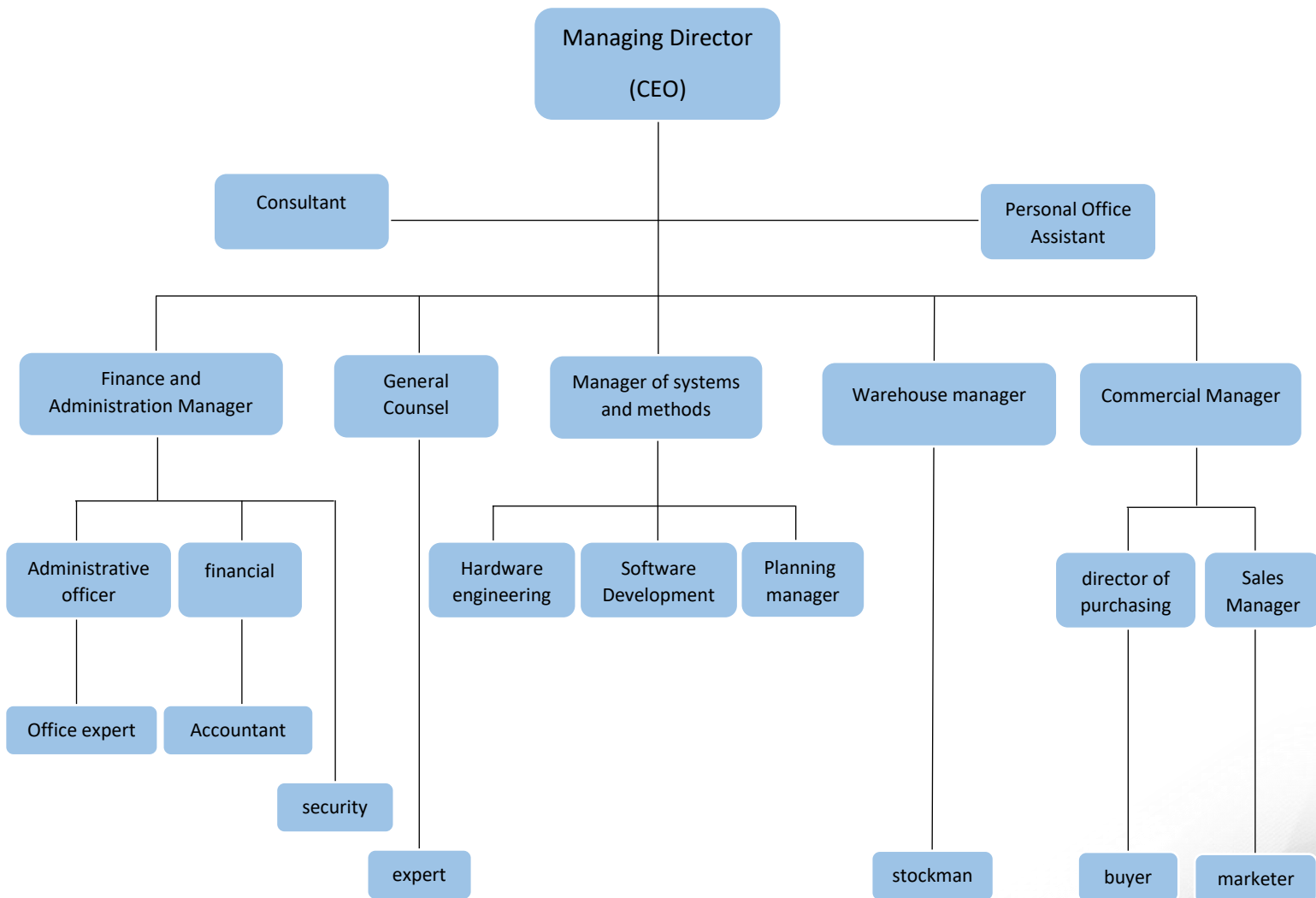
Engineering, Procurement & Construction
Instrumentation and Control Technology

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Company Flowchart



About us

Esperlo Tose'e Apadana Development Company with experienced and experienced staff and sales in the field of needs assessment, supply, installation and operation of industrial automation equipment and precision instruments of various industries, has been active and services such as consulting, supply, implementation and maintenance of engineering systems and precision instruments. Is. It is provided in industries such as oil, gas, petrochemical, energy, power plant, cement, automotive, food, medicine and pharmaceutical, etc., it should be noted that this company provides the products needed by the employer from different brands. It has instant and stock.

This company has used all its power towards the development of the country's industry in order to be a small share in the field of supplying engineering equipment and precise tools needed by various industries in accordance with the highest quality standards.

Also, this company is proud to prepare all the equipment for the above industries completely online and send them to all parts of the country.

Commerce Activities

- Import and sale of all industrial equipment such as electricity, industrial automation, precision tools, hydraulic and pneumatic
- Supply of spare parts needed for industrial projects
- Order goods completely online and send to all parts of the country



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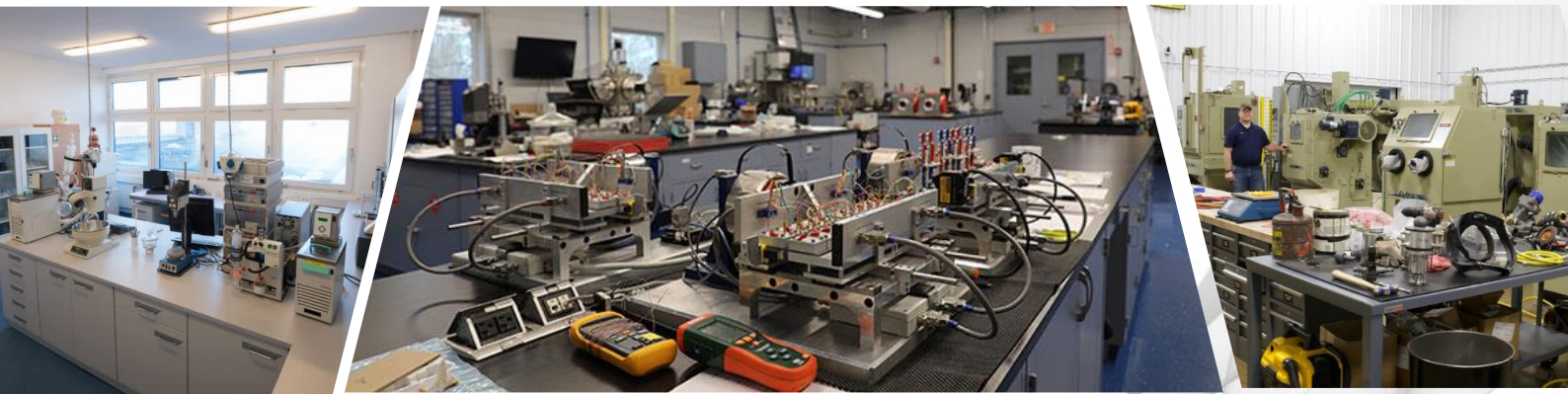
Capabilities of company

- Configuration and presentation of complete technical proposals for sensors and instrumentation equipment according to the demands and requirements of industrial processes
- Selection and provision of all types of equipment (temperature sensor, flow measurement sensor, pressure sensor, level sensor, concentration sensor, etc.)
- Preparation, installation and operation of analyzers (gas, liquid analyzers, etc.)
- Consulting and providing all kinds of calibration equipment (manual and desktop calibration, including temperature, pressure calibrator, etc.)
- Installation of all types of registers and recorders (analog and digital)

R&D

This unit uses research and experienced engineers to conduct research, design and prototyping the projects announced by the company and is active in both mechanics and electronics, examples of which include the following:

- Research and design of thermowell manufacturing methods based on ASME, DIN,...
- Research and programming of Wake Frequency calculation software for thermowells based on ASME standard
- Designing and manufacturing electronic circuits of level transmitter with output 4...20 mA two wires and linear
- Design and construction of pressure data logger with the ability to connect to various pressure transmitters and send information by GPRS, TCP/IP protocol and SMS
- Design and manufacture of datalogger with the ability to connect to all types of transmitter levels and send information by GPRS and TCP/IP protocol and SMS
- Design and manufacture of temperature datameter with the ability to connect to all kinds of temperature sensors from tribe



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Vendor

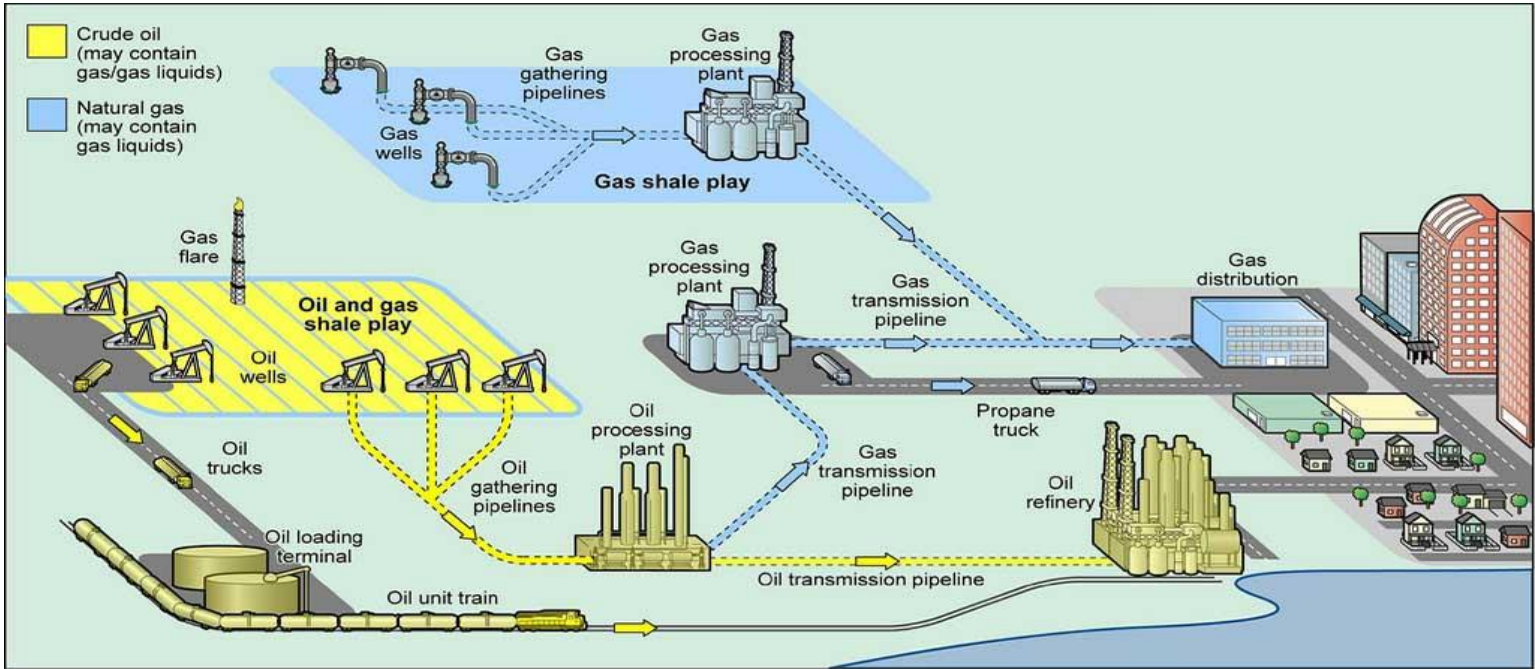
ردیف	نام شرکت	کد وندور
1	شرکت نفت سپاهان	جهت هماهنگی تماس با واحد بررسی منابع
2	نفت و گاز مسجد سلیمان	جهت هماهنگی تماس با واحد بررسی منابع
3	وزارت نفت	جهت هماهنگی تماس با واحد بررسی منابع
4	پتروشیمی شهید تند گویان	جهت هماهنگی تماس با واحد بررسی منابع
5	شرکت کروژ	جهت هماهنگی تماس با واحد بررسی منابع

Projects

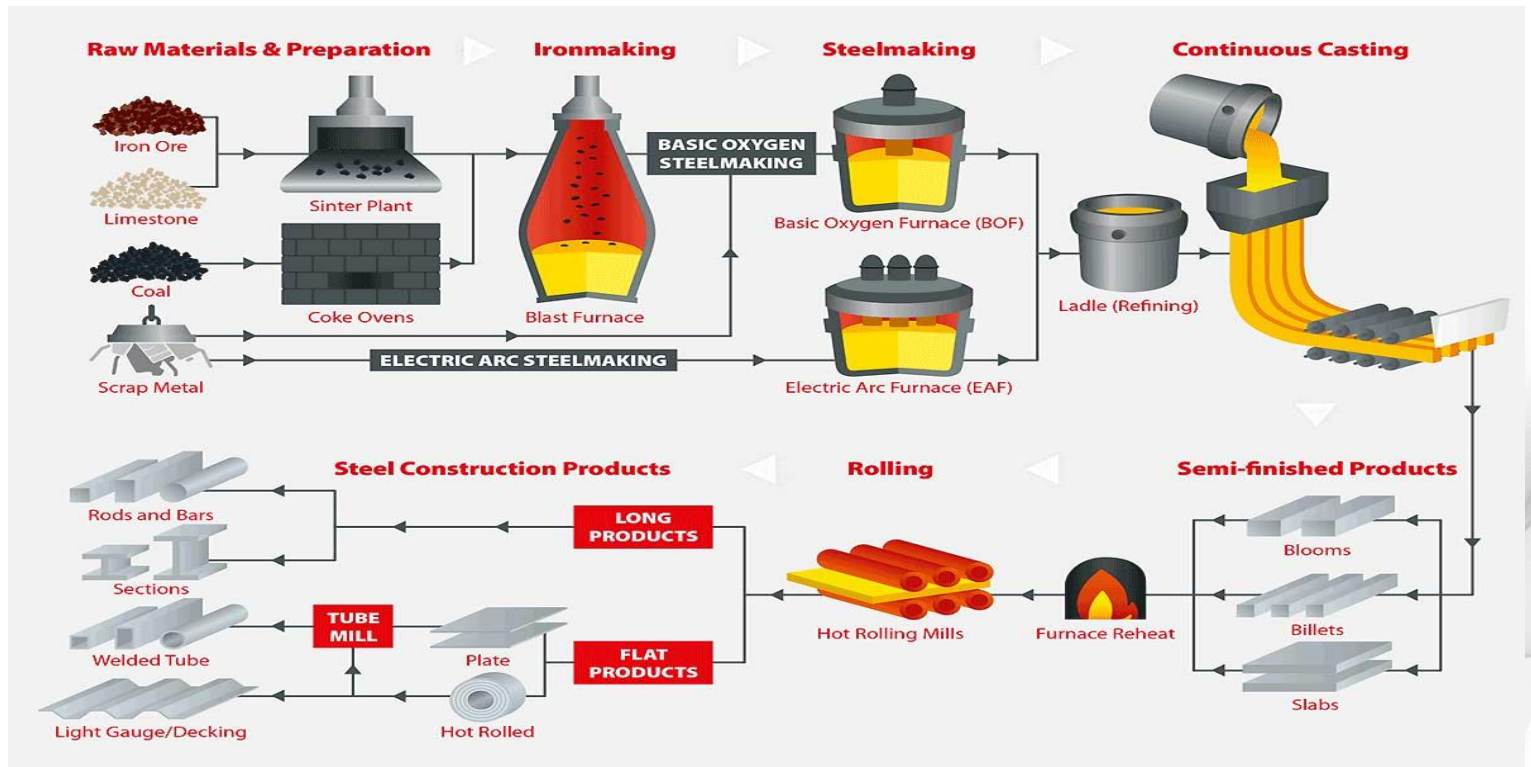
ردیف	نام شرکت	توضیحات
1	شرکت نفت سپاهان	تامین کلیه شیر آلات ابزار دقیق
2	شرکت تام ایران خودرو	تامین تجهیزات ابزار دقیق و پنوماتیک
3	شرکت تشگاز	تامین تجهیزات ابزار دقیق
4	سازمان پژوهشهای علمی و صنعتی ایران	تامین تجهیزات Rosemount
5	طراحی و تحقیق موتور ایران خودرو	تامین تجهیزات پنوماتیک
6	پتروشیمی شهید تند گویان	تامین تجهیزات ابزار دقیق
7	بهره برداری و تجهیزات نیروگاه صبا	تامین تجهیزات
8	مهندسی و ساخت بویلر و تجهیزات مپنا	تامین و تعمیر تجهیزات
9	نفت و گاز مسجد سلیمان	تامین کلیه شیر آلات ابزار دقیق و ترانس میتر
10	شرکت کروژ	تامین تجهیزات ابزار دقیق
11	شرکت ایران رادیاتور	تامین تجهیزات ابزار دقیق
12	شرکت پارس حساس	تامین تجهیزات ابزار دقیق
13	پتروشیمی تندگویان	تامین تجهیزات Rosemount
14	شرکت سلامت صنعت بوعلی	تامین تجهیزات پنوماتیک
15	شرکت سه نان	تامین تجهیزات پنوماتیک
16	شرکت جام پلیمر	تامین تجهیزات
17	شرکت توتون صنعت	تامین تجهیزات ابزار دقیق
18	شرکت توکا (مپنا)	تامین تجهیزات ابزار دقیق
19	شرکت پلاستیران	تامین تجهیزات
20	مجتمع گاز پارس جنوبی	تامین تجهیزات Rosemount
21	شرکت کویر تایر	تامین تجهیزات Rosemount
22	شرکت کلوین	تامین تجهیزات Rosemount



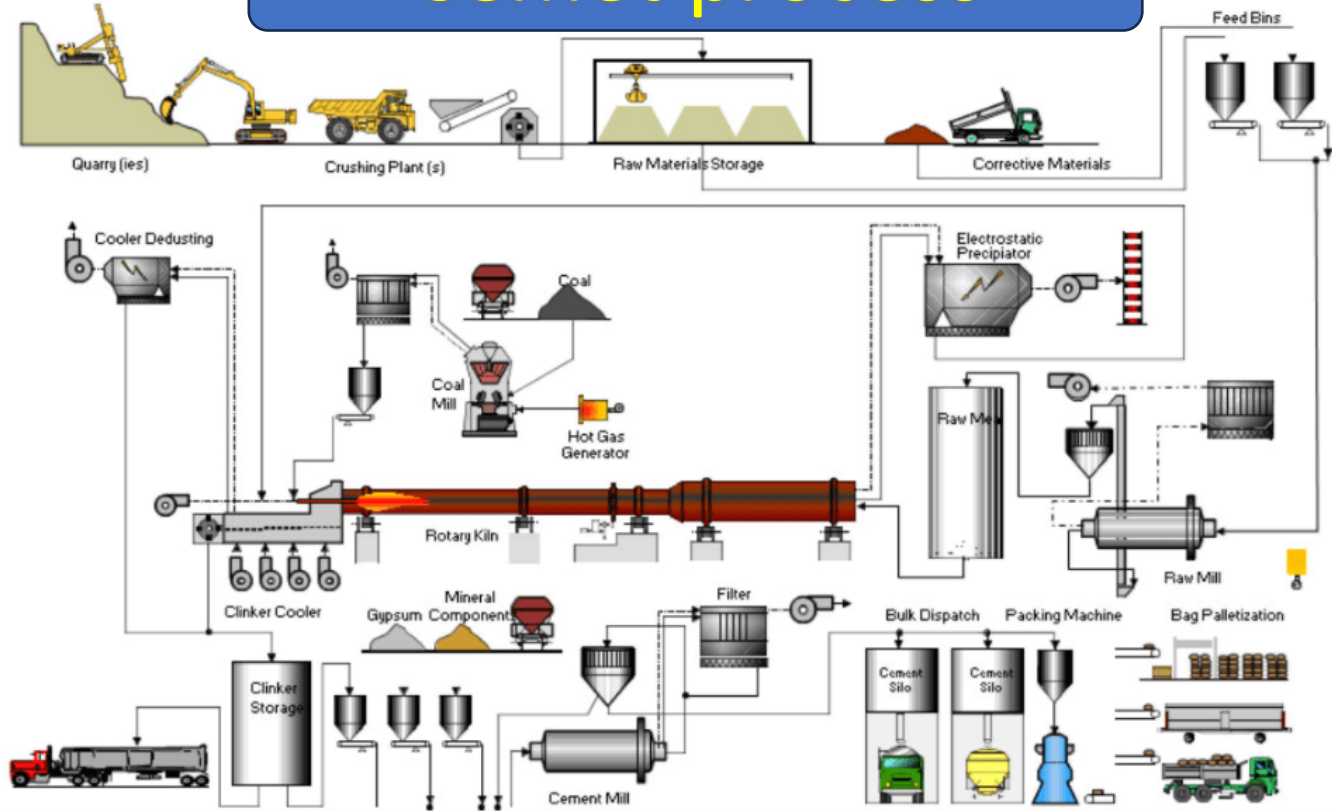
oil and gas process



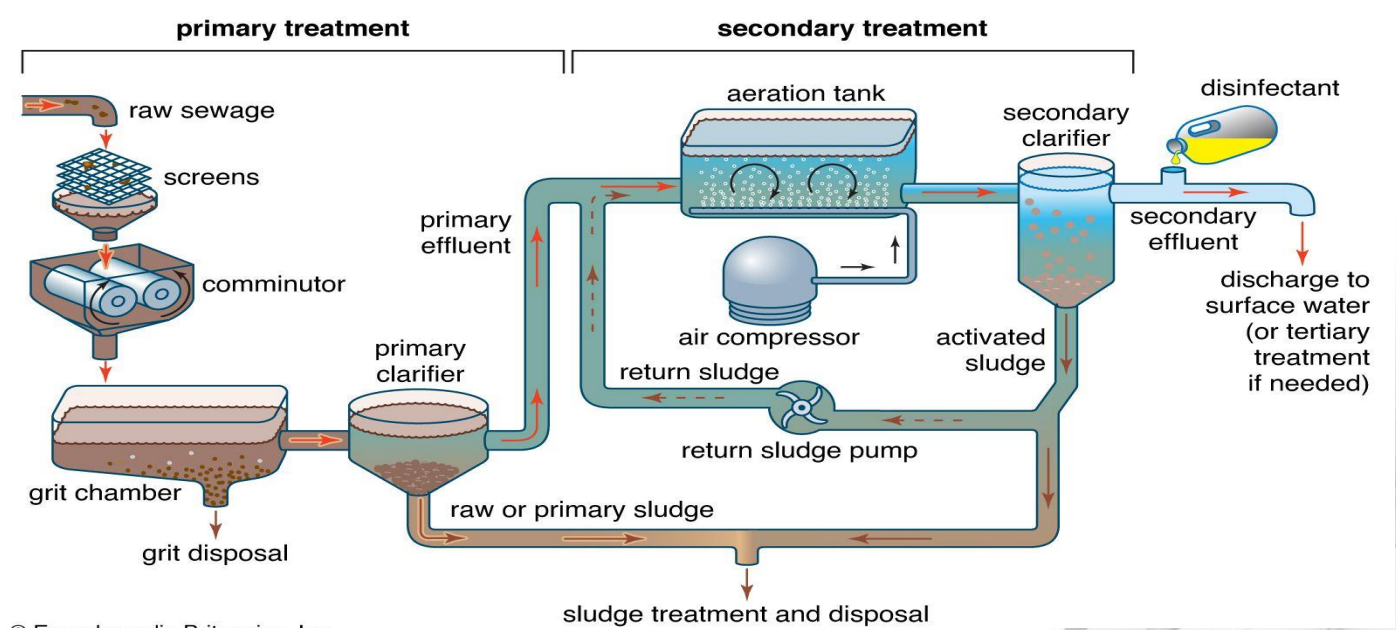
Metal process



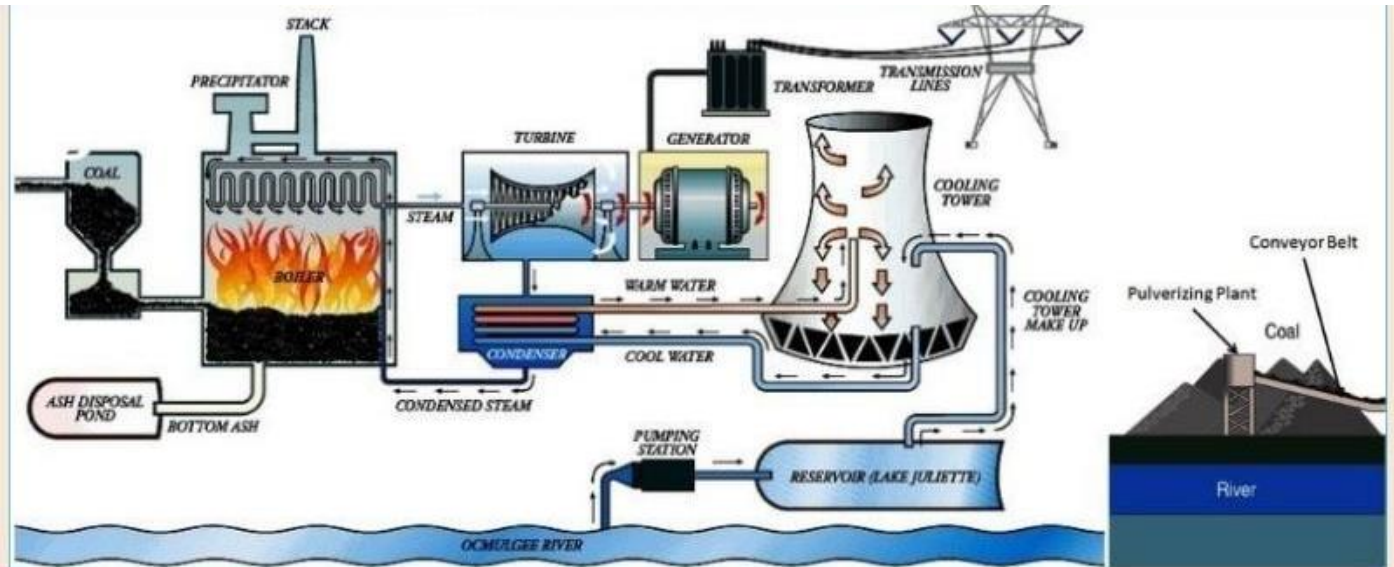
Cemet process



Wastewater process



Power Generation process



Food and beverage process

Coriolis Mass flowmeter

High-precision measurement even for bubble-generating liquids

Level Meters

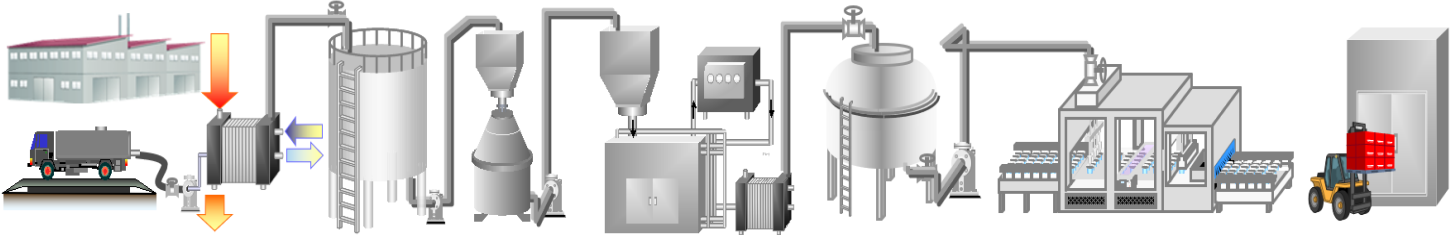
Possible to measure powder level without contact

Hygienic Pressure Transmitters

No fear of sealed liquid leakage

Laser spectroscopic analysis

Non-contact gas component measurement



Inspection work

Utility facilities

Water purifying facility

CIP facilities

Waste water treatment facilities

Maintenance service

Distributed Temperature Sensor

Detection of pipe leaks and corrosion by monitoring the overall temperature distribution

Wireless sensor

Data measurement of remote equipment

Sushi Sensor

Wireless monitoring of device status



ISO



Warranty Document

ID:

Date:

کارت گارانتی



خریدار محترم:

شماره فاکتور:

محصولات ذیل بر اساس شرایط مندرج در سند راهنمای کاربری و کنترل تحت ضمانت تعمیر یا تعویض قرار می گرد.

ردیف	شرح محصول	تعداد	کمپانی سازنده	سریال نامبر	تاریخ اتمام

- خریدار موظف است، در هنگام خرید کالا از سالم بودن ظاهر کالا، برجسب سریال و ضمانت نامه اطمینان حاصل نماید.
- استفاده از خدمات ضمانت منوط به بررسی کارشناسان شرکت است.
- دارنده رسید به عنوان صاحب کالا تلقی گردیده و فقط در قبال ارائه رسید، کالا تحویل داده خواهد شد.
- به منظور استفاده از خدمات ضمانت، ارائه برگه ضمانت و فاکتور فروش محصول الزامی می باشد، در غیر اینصورت دستگاه خارج از تعهدات ضمانت مورد خدمات پشتیبانی قرار خواهد گرفت.
- در مدت ضمانت و پشتیبانی، دستمزد تعمیرات و بهای قطعات تعویض شده دریافت نمی شود و فقط هزینه حمل دستگاه به تعمیرگاه و ایاب ذهاب سرویس کار به عهده مشتری خواهد بود.
- ارائه تمامی خدمات، منوط به ارسال دستگاه در قالب جعبه بسته بندی استاندارد شرکت می باشد. بدیهی است هرگونه دخل و تصرف در جعبه بسته بندی، دستگاه را از گارانتی و خدمات پس از فروش خارج خواهد نمود.
- در صورت مخدوش شدن شماره سریال مندرج بر روی قاب دستگاه و عدم امکان تطبیق میان شماره سریال دستگاه و برگه ضمانت، دستگاه خارج از تعهد ضمانت مورد خدمات پشتیبانی قرار خواهد گرد.
- در صورت تشخیص غیرقابل تعمیر بودن کالای تحت ضمانت، کالای مشابه و یا هم رده کالای معیوب به مشتری ارائه می گردد.
- این شرکت در قبال اطلاعات ذخیره شده بروی دستگاهها هیچگونه مسئولیتی ندارد
- صدمات ناشی از حوادث طبیعی و غیر مترقبه، نوسانات برق، استفاده نادرست، ضربه فیزیکی، آتش سوزی و دست کاری توسط افراد غیر متخصص شامل این ضمانت نامه نمی باشد.
- شرایط نگهداری دستگاه (بازه دمایی و بازه رطوبتی) ، از سایت مرجع مطالعه و رعایت گردد در غیر این صورت دستگاه یا قطعه شامل گارانتی نمی گردد.
- تمامی تعهدات شرکت در این ضمانت نامه و دیگر اسناد مربوطه منوط به عدم انحلال شرکت در دوره مورد تعهد می باشد.

مهر و امضا خریدار

مهر و امضا فروشنده



Application

For the first time in the country, the Asa application has been placed at the disposal of this cultured class, which is the burden of the country's industry, to help promote the careers of respected activists in the field of precise tools, design.

Attributes:

- View up-to-date prices of different brands
- Conversion of engineering units
- View all the technical information of the desired product
- View the installation instructions for the desired product
- It is possible to see the partner's price list only for partners with a user code
- Failure to display the price list of colleagues to customers and other people without a user code
- Saving and speeding up the time to respond to the customer in terms of obtaining an immediate price and converting engineering units
- View the price list instantly in case of changes



جهت دریافت
اپلیکیشن می توانید
QR کد روبرو اسکن
نمایید



Company products



Temperature Gauge



24 Month
Warranty



Personnel
qualification



packaging &
storage



Pressure Gauge



Temperature Element



Pressure Transmitter



Temperature Transmitter



Valve Manifolds



Thermowell



Level Switch



Float Level transmitter



Magnetic Level Gauge



Float Level Switch



Diaphragm Seals



Tube, Pipe, Fitting, Valve & Flange

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Temperature Gauge

Made in Iran

Applications

- A wide range of applications in chemical and petrochemical industries, oil and gas industries, energy and water/wastewater industries, machine building, vessel, piping and apparatus construction
- Heating technology
- Temperature measurement in harsh and aggressive environments
- Temperature measurement without medium contact
- Suitable for applications with high vibrations

Special features

- Scale ranges from -200 ... +700 °C [-328 ... 1.292 °F]
- Nominal sizes 63, 80, 100, 160 mm
- 3 different connection designs
- Individual stem length from 63 ... 1,000 mm [2.5 ... 39 in]
- Fast response behavior
- Accuracy: $\pm 1\%$ of full-scale value ASME B40.200 (grade A)
- Adjustable stem and dial version enables optimal process connection
- External reset for setting the reference temperature
- Various connection and case mounting designs



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Pressure Gauge

Made in Iran

Applications

- For gaseous and liquid aggressive media that are not highly viscous or crystallizing, also in aggressive environments
- Chemical and petrochemical industries, pharmaceutical, biotechnology, oil and gas industry, machine and power engineering, Hydraulics, Compressors, shipbuilding, Medical, vacuum, environmental, laboratory technology, for contents measurement and filter monitoring and also water and wastewater technology
- Increased safety requirements for personal protection

Special features

- Nominal size 40 [1 ½"], 50 [2"], 63 [2 ½"], 80 [3"], 100 [4"] and 160 [6"]
- Excellent load cycle stability and shock resistance
- With case filling for applications with high dynamic pressure loads and vibrations
- Available: Completely from stainless steel,
- Safety version with solid baffle wall (Solidfront) designed in compliance with the requirements of EN 837-1 and ASME B40.100
- Excellent load-cycle stability and shock resistance
- Zero-point correction in front
- Low scale ranges from 0 ... 2.5 mbar to 0 ... 600 mbar or 0 ... 1 inH₂O to 0 ... 240 inH₂O
- Medium Scale ranges from 0 ... 0.6 to 0 ... 1,600 bar or 0 ... 10 to 0 ... 20,000 psi
- Coating for corrosive or abrasive process loads
- Wide range of applications in vessel, tubing and apparatus construction, machine building and industrial heating



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Differential Pressure Gauge

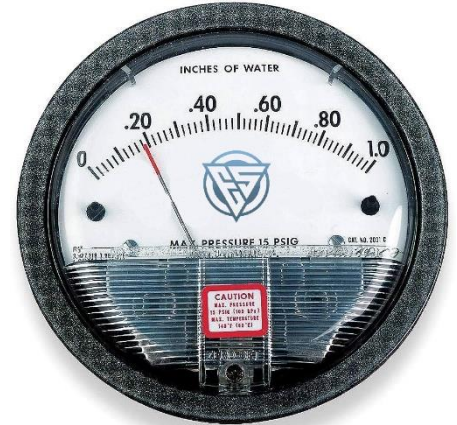
Made in Iran

Applications

- For gaseous and liquid aggressive media that are not highly viscous or crystallizing, also in aggressive environments
- Pump monitoring and control
- Filter monitoring
- Level measurement on closed vessels

Special features

- Differential pressure measuring ranges from 0 ... 16 mbar to 0 ... 40 bar or 0 ... 10 inH₂O to 0 ... 600 psi
- High operating pressure (static pressure) up to selectable 40 bar [580 psi], 100 bar [1,450 psi], 250 bar [3,625 psi], 400 bar [5,800 psi] and 650 bar [9,425 psi]



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Temperature Element

Made in Iran

Applications

- Replacement measuring insert for servicing
- For all industrial and laboratory applications, Machine building, plant, vessel construction, Energy, power plant technology, Chemical and petrochemical, Oil and gas industry, Food and beverage industry, Power and utilities, Pulp and paper, Plastics and rubber, Motors, Bearings, Packaging, -conditioning and refrigeration systems, Blast furnaces, cowper stoves,
- Nozzle extensions on injection mould machines
- To measure surface temperatures on flat surfaces or pipes, in both laboratory and industrial applications
- Annealing and heat treatment processes
- Refuse, biomass, hazardous waste incineration
- Industrial heating installations, heat generation, power engineering, reactors
- Glass, porcelain, ceramics industry, cement and brick production
- Processes with high hydrogen sulfide content
- Furnaces, kilns and ovens
- Furnaces with oxidizing and neutral atmosphere
- Glass, fibre and ceramic industries
- Research and development facilities

Special features

- Explosion-protected versions are available for many approval types
- Manufactured from the finest high-purity, high-temperature ceramics and metals
- Suitable for mounting in ceramic thermowells
- Cost saving by non-purge system
- Reduction of unplanned downtime
- Increased safety through internal sealing system
- Gastight process connection
- Coating (optional)
- Easily exchanged, no thermowell necessary
- For screw-fitting, welding or using a tightening strap
- Cable from PVC, silicone, PTFE or glass fibre
- The nozzle thermocouples are a low profile in design
- Extension cable is available in a variety of insulation and jacketed materials. These include fibreglass, PTFE or PVC to name a few.
- Interchangeable and easily replaceable
- Made of mineral-insulated sheathed cable
- For many thermowell designs
- Made of mineral-insulated sheathed measuring cable
- For insertion, screw-in with optional process connection
- Sensor ranges from -40 ... +1,260 °C [-40 ... +2,300 °F]



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Thermowell

Made in Iran

Applications

- Petrochemical industry, on-/offshore, plant construction
- Oil and gas, petrochemical industry
- Chemical industry, process technology, equipment manufacture
- For low and medium and high process loads
- For high chemical loads & stress & demands

Special features

- Heavy-duty design
- International standard
- Chemical, petrochemical, offshore industries
- Large variety of materials
- Variable length and dimensions & welding diameters
- Possible thermowell forms: tapered, straight, stepped
- Possible thermowell forms: Weld-in, Flange, Threaded
- Coating for corrosive or abrasive process loads
- Wide range of applications in vessel, tubing and apparatus construction, machine building and industrial heating



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Pressure Transmitter

Made in Iran

Applications

- Compressors
- Condensers
- Chemical, petrochemical industry
- Oil, natural gas
- Machine building
- General industrial applications
- Food and beverage industry
- Filling and packing machinery
- Dosing technology
- Level measurement
- Critical industrial applications
- Demanding applications in research and development
- Harsh environments in the process industry
- Hydraulics and pneumatics
- Pumps and compressors
- Ship building

Special features

- Wetted parts from stainless steel
- Resistant to all common refrigerants
- Special case design for the best possible condensation tightness
- Private labelling possible
- Measuring ranges from 0 ... 0.1 to 0 ... 1,600 bar
- Approved for use in hazardous areas, e.g. ATEX, IECEx, FM and CSA
- High-quality product
- Many configurations possible
- Flush process connection
- Large stocks for short delivery times
- Vacuum-tight
- Different output signals, e.g. 4 ... 20 mA, DC 0 ... 10 V, DC 1 ... 5 V and others
- Common international process connections
- Excellent quality and proven technology
- Exceptionally large variety covers almost all applications
- All configurable variants are available at short notice from quantities of 1 upwards
- Particularly cost-efficient



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Temperature Transmitter

Made in Iran

Applications

- Process industry
- Machine building and plant construction
- Plant construction
- Process engineering
- General industrial applications
- Oil and gas

Special features

- Operation in safety applications to SIL 2 (single instrument) and SIL 3 (redundant configuration)
- Configurable with almost all soft- and hardware tools
- Universal for the connection of 1 or 2 sensors
 - Resistance thermometer, resistance sensor
 - Thermocouple, mV sensor
 - Potentiometer
- Setting of units and measuring range possible on site
- For the connection of reed chains in a potentiometer circuit
- Industry-leading accuracy and reliability for best performance in critical control and safety applications
- Transmitter-sensor matching improves measurement accuracy up to 75%
- 5-year long-term stability extends calibration intervals to reduce trips to the field
- Hot Backup™ capability and sensor drift alert utilizing dual sensors ensure measurement integrity
- Thermocouple degradation diagnostic monitors thermocouple health to detect degradation before failure
- Minimum and maximum temperature tracking allows monitoring of temperature extremes for easy troubleshooting
- Transmitter supports multiple protocols for integration in many host environments across many industries
- Device dashboards provide easy interface for simplified device configuration and diagnostic troubleshooting



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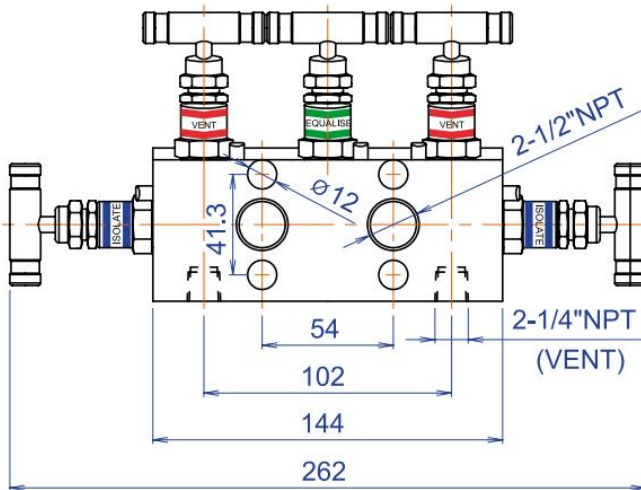
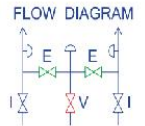
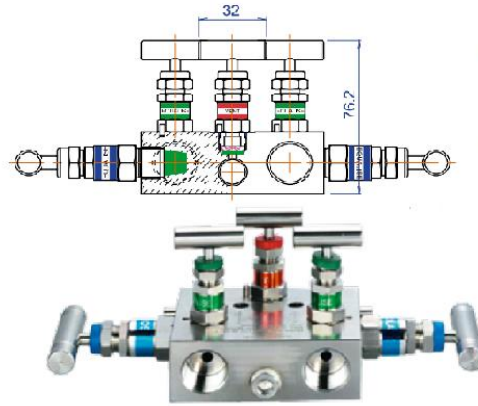
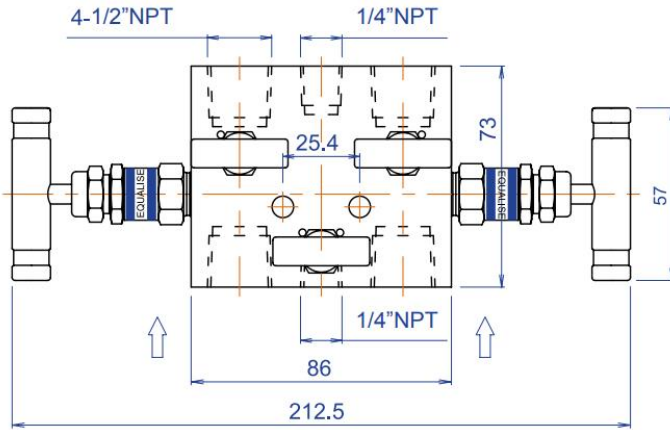
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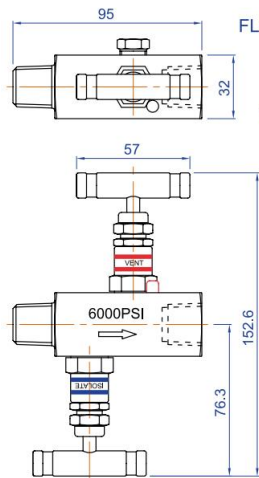
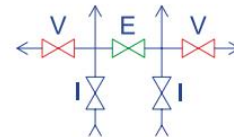


Valve Manifolds

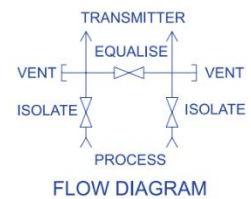
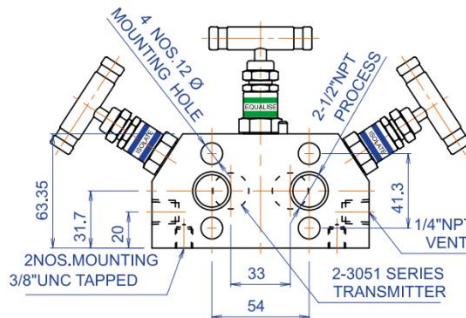
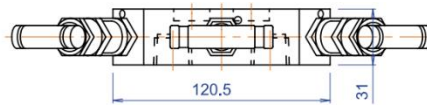
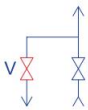
Made in Iran



FLOW DIAGRAM



FLOW DIAGRAM



Float Level Switch

Made in Iran

Applications

- Level measurement for almost all liquid media
- Pump and level control and monitoring for distinct filling levels
- Chemical, petrochemical, natural gas, offshore, shipbuilding, machine building, power generating equipment, power plants, Process water and drinking water treatment, food and beverage industry, Waste water treatment plants
- Alarm signals
- Dry-run and overflow protection
- Limit level measurement in machine building
- Monitoring of hydraulic power packs and chillers
- Overfill measurement in water technology

Special features

- Large range of application due to the simple, proven functional principle
- For harsh operating conditions, long service life
- Operating limits:
 - Operating temperature: $T = -120 \dots +350 \text{ }^\circ\text{C}$
 - Operating pressure: $P = \text{Vacuum up to } 40 \text{ bar}$
 - Limit density: $\rho \geq 300 \text{ kg/m}^3$
- Wide variety of different electrical connections, process connections and materials
- Explosion-protected versions For waste water, sewage and heavily soiled liquids
- Suitable for use in hazardous areas Ex zone 0, 1 and 2
- For harsh operating conditions, long service life
- Stainless steel and plastic versions
- Environmentally friendly, mercury- and lead-free





Float Level transmitter

Made in Iran

Applications

- Level detection for almost all liquid media
- Chemical, petrochemical industry, natural gas, offshore, shipbuilding, machine building, power generating equipment, power plants
- Process water and drinking water treatment, food and beverage industry, pharmaceutical industry
- Control and monitoring of sewage, settling and stormwater retention basins, tasks for hydraulic power packs, compressors and cooling systems

Special features

- Robust
- Reliable
- Economical
- Media compatibility: Oil, water, diesel, refrigerants and other liquids
- Permissible medium temperature range: -30 ... +120 °C [-22 ... +248 °F]
- Output signal: Resistance in a 3-wire potentiometer circuit, current output 4 ... 20 mA
- Accuracy, resolution: 24 mm [0.9 in], 12 mm [0.5 in], 10 mm [0.4 in], 6 mm [0.2 in] oder 3 mm [0.1 in]
- Process- and procedure-specific solutions possible
- Wide variety of different electrical connections, process connections and materials



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Magnetic Level Gauge

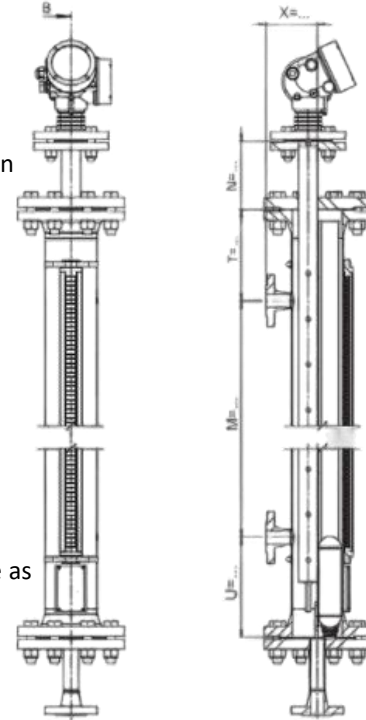
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Applications

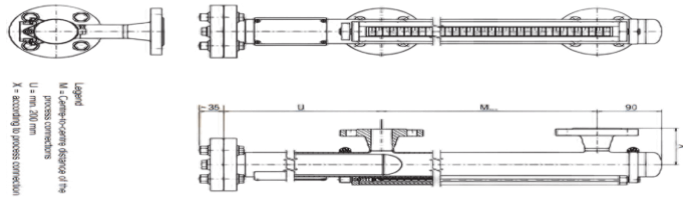
- Continuous level indication without power supply
- Indication of the level proportional to height
- Individual design and corrosion resistant materials make the products suitable for a broad range of applications
- Chemical, petrochemical industry, oil and natural gas extraction (on- and offshore), shipbuilding, machine building, power generating equipment, power plants
- Process water and drinking water treatment, food industry, pharmaceutical industry

Special features

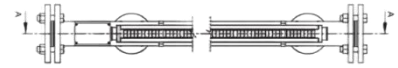
- Process- and system-specific production
- Operating limits:
 - Operating temperature: $T = -196 \dots +450 \text{ }^\circ\text{C}$
 - Operating pressure: $P = \text{vacuum to } 400 \text{ bar}$
 - Limit density: $\rho \geq 340 \text{ kg/m}^3$
- Wide variety of different process connections and materials
- Mounting of level transmitters and magnetic switches possible as an option
- Explosion-protected versions



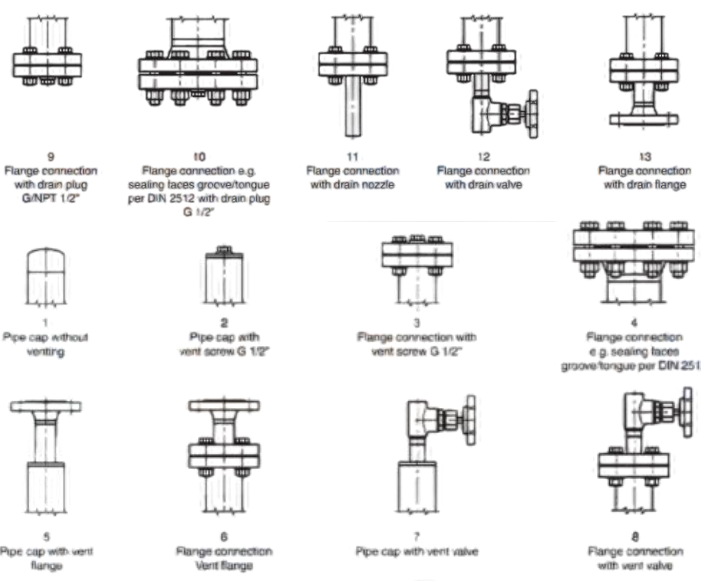
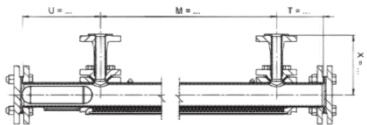
Legend
M = Centre-to-centre distance of the process connections
U = min. 220 mm



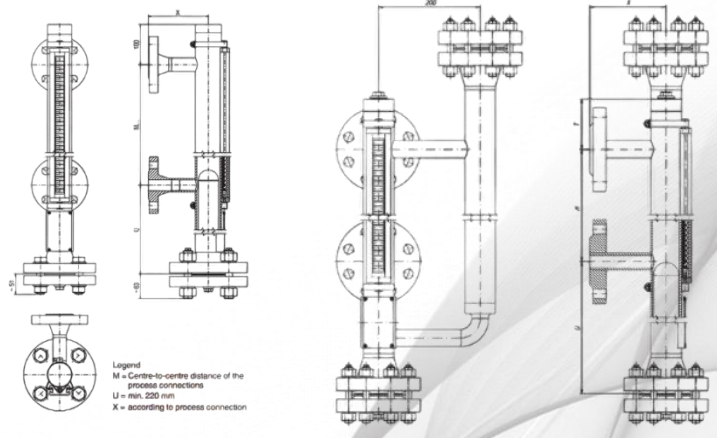
Legend
U = min. 220 mm
M = Centre-to-centre distance of the process connections
90 = according to process connection



Legend
U = min. 220 mm
M = Centre-to-centre distance of the process connections
T = according to process connection



9 Flange connection with drain plug G/NPT 1/2"
10 Flange connection e.g. sealing faces groove/tongue per DIN 2512 with drain plug G 1/2"
11 Flange connection with drain nozzle
12 Flange connection with drain valve
13 Flange connection with drain flange
1 Pipe cap without venting
2 Pipe cap with vent screw G 1/2"
3 Flange connection with vent screw G 1/2"
4 Flange connection e.g. sealing faces groove/tongue per DIN 2512
5 Pipe cap with vent flange
6 Flange connection Vent flange
7 Pipe cap with vent valve
8 Flange connection with vent valve



Legend
M = Centre-to-centre distance of the process connections
U = min. 220 mm
X = according to process connection





Diaphragm Seals

Made in Iran

Applications

- Food and beverage industry ,Bio and pharmaceutical industry, production of active ingredients
- Paint finishing systems, Filter monitoring, Level measurement
- Oil and gas industry, chemical and petrochemical industries
- Water treatment, Versatile in application, For hard and abrasive media
- Screed and concrete pumps, Mining, tunnelling and overburden haulage
- Hygienic applications
- Aggressive, highly viscous, crystallizing or hot media
- Highly viscous, hardening or particle-laden media
- Pulp manufacture, Waste-paper processing, Food and beverage production, Breweries
- Soft drink production, For dairies, dairy products
- Thick-walled or insulated pipelines and vessels

Special features

- For cleaning easy to open
- Quick cleaning of measuring point, without residue
- Suitable for SIP and CIP
- Flush, welded diaphragm
- Large selection of process connections and materials
- Version with protective plate for increased wear resistance
- Vacuum measuring ranges
- For aggressive, corrosive or environmentally hazardous media
- Wide variety of different materials and material combinations
- Compact design
- Flange with extended welded diaphragm
- When special materials are selected, all wetted parts are made of the selected material
- Robust, all welded design
- Suitable for cleaning out of place (COP)



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Tube, Pipe, Fitting, Valve & Flange

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Available brands



Endress+Hauser
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Krohne



IFM



Foxboro



ASCO



Norgren



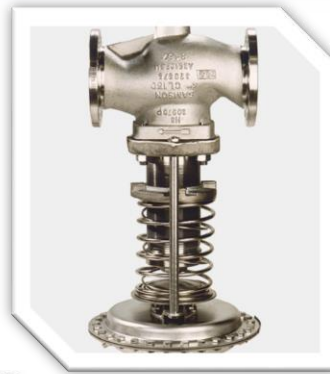
Festo



SMC



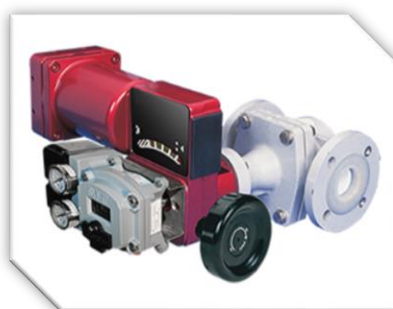
Samson



Pepperl+Fuchs



Masoneilan



Honeywell



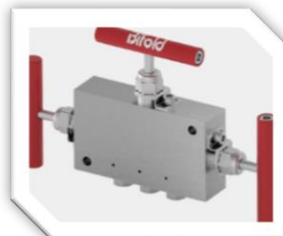
Vega



Fisher



Bifold



Rotork





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