CONTROL VALVES AND ACCESSORIES

Pneumatic Angle Seat Piston Valves

| Type | Pneumatic Angle Seat Piston Valve, On-off or proportional control |
| Size | 1/2˝ ... 2˝ G screwed, flanged, welding connection (on request NPT screwed) |
| Position | Normally Closed (N.C.), Normally Open (N.O.) |
| Working Temperature | -10/+180˚C |
| Max. Working Pressure | 16 bar, vacuum lines |
| Body, Actuator Material | Stainless Steel, AISI 316 |
| Leakproofing Material | Standard PTFE (optionally VITON or EPDM) |
| Recommended Air Pressure | 6 bar |
| Air Supply Connection | 1/4" G screwed |
| Application | Water, Air, Steam, Gas, Chemical Material, Petroleum Products, Nutrient, Vacuum, etc. |

Rotary Pneumatic Actuators / Single Acting - Double Acting - Three Positioned

| Body Material | Extruded Aluminum, Surface Hardened Aluminium Coated, Impregnated, epoxy Painted |
| Output Torque Values | DA Series: Double Acting 9 Nm ... 5162 Nm; SR Series: Single Acting 5 Nm .... 1950 Nm; 3P Series: 18 Nm .... 330 Nm |
| Shaft | Steel (Nickel Coated), Stainless Steel |
| Sealing Material | NBR (on request VITON) |
| Working Temperatures | -20˚C ... 80˚C / -50˚C ... 80˚C |
| Bearing Material | Industrial Hardened Plastic |
| Control | On-off or Proportional Control |
| Actuator/Valve Connection Standard | Actuator/Valve Connection Standard ... ISO 5211 |
| Solenoid Valve Connection Standard | 3/2 or 5/2: ... NAMUR |
| Positioner and Limit Switch Box Connection Standard | NAMUR |
| Air Supplys | 4 - 8 Bar |
| Protection Class | On request; ATEX (Protection Class: II 2GD c T4) |
| Application | Ball and Butterfly Valves, Dampers on-off or Proportional Control |

Pneumatic Actuated Ball and Butterfly Valves

| Series | PAV 900 Pneumatic Ball Valves |
| Ball Valve Connection | PAV 800 Pneumatic Butterfly Valves |
| Way | 2 Way Ball Valves - 3 Way Ball Valves |
| Valve Body Material | Stainless Steel, Brass, Cast Iron, PVC, Carbon Steel |
| Dimension of Ball Valve | 1/2˝ ... 8˝ (DN IS ... DN 200) |
| Ball Valve Working Pressure | PN 16, 25, 40 bar |
| Butterfly Valve Connection | Wafer Type, Lug Type, Flanged Type |
| Dimension of Butterfly Valve | DN 25 ... DN 600 (Wafer type, lug Type) |
| Butterfly Valve Working Press. | PN 6 ... PN 16 |
| Control | On-Off or Proportional |
| Actuator Type | Double Acting, Single Acting Type, Three Positioned, 180˚ Rotational |
CONTROL VALVES AND ACCESSORIES

Limit Switch Box and Electro-Pneumatic Positioner

Limit Switch Box LS... Series:
1) Mechanical 2) Proximity 3) Ex-Proof Proximity Limit Switch Box

Application: Rotary Type Pneumatic Actuator, (Double and Single Acting) Butterfly, Plug, Ball Valve’s position monitoring and receiving an electrical signal. (Switch Output or analog Output)

Connection: NAMUR

Protection Class: IP67 - (Ex d IIC T6, Ex ia IIC T6 Optional)

TORK-EPR Positioner
Rotary Type Electro-Pneumatic, Smart Types & Ex-proof Types Positioners

Inlet: 4 - 20 mA, 0,21 - 1 bar (3-15 psi)

Air Pressure: 6 bar

Application: Rotary pneumatic actuators with proportional control rotary and actuated valves

Note: Linear Positioners also exist in our product range.

Namur Solenoid Valve, Valve Interlocks and Hand Control Unit

Namur Solenoid Valve NM Series (for on-off working Pneumatic Actuators)

1/4" - 5/2 one or two coiled Namur Type solenoid Valve
1/4" - 3/2 one coiled Namur Type solenoid Valve

Coil Voltage: 220 V, 110 V, 24 V, 12 V, AC/DC, (IP 65 and Ex-proof)

TORK-MOR Series Manual Override
Torque Rotational Moment: 100 Nm, 450 Nm, 750 Nm, 1500 Nm, 3500 Nm, 5000 Nm, 7500 Nm

Application: It is used for controlling the valve by hand especially in rotary type pneumatic actuated ball and butterfly valve applications.

QL Valve Interlocks
QL valve interlocks suit all types of lever operated quarter turn valves, including ball, butterfly, and plug valves.

Proportional Control Valves

Type: TORK-LV and TORK-LEA Series (Proportional Control)
Diaphragm Pneumatic Actuated Glob Valves
Electric Actuated Glob Valves

Size: DN15 ...DN150 flanged

Working Temperature: -10/+85˚C

Max. Working Pressure: 6 bar, vacuum lines

Body, Actuator Material: Stainless Steel (on request Sfero Coated or Carbon Steel)

Leakproofing Material: Standard PTFE (optionally VITON or EPDM)

Recommended Air Pressure: 6 bar

Application: Water, Air, Steam, Gas, Chemical Material, Petroleum Products, Nutrient, Vacuum, etc.
Electric Actuators

**Series**
- REA Rotary Type Electric Actuator
- EAV 800 Electric Actuated Butterfly Valves (DN 40 ... DN 800)
- EAV 900 Electric Actuated Ball Valves (DN 15 ... DN 250)

**Application**
- Ball Valves, Butterfly Valves, Dampers

**Torque Rotational Moment**
- It changes between 60 Nm and 3000 Nm (12 different options)

**Motor Power**
- 220 V AC, 24 V AC/DC 1Ph, 380 V AC 3Ph. 50/60 Hz ± 10%

**Temperature**
- -20˚C - 70 ˚C

**Flanged Connection**
- ISO 5211 or DIN 3337 Standard

**Control**
- On-off or Proportional Control

**Accessories**
- Proportional Card, limit switch can be added, 4-20 mA Output
- Smart Type Electric Actuators, Spring Return Actuators.

**Protection Class**
- Weather proof - IP67, IP68
- Optional Explosion Proof - Ex IIB T4 (Atec)

Electric Actuated Valves / Mini Motorized Ball Valve

**Series**
- EAV 900 Electric Ball Valve / EAV 800 Electric Butterfly Valve

**Way**
- 2 Way Ball Valves - 3 Way Ball Valves

**Valve Body Material**
- Stainless Steel, Brass, Cast Iron, PVC, Carbon Steel

**Dimension of Ball Valve**
- Ball: 1/2˝ ... 8˝ (DN I6 ... DN 200)
- Butterfly: DN 25 ... DN 600 (Wafer Type, lug Type)

**Valve Working Pressure**
- Ball: PN 16, 25, 40 bar
- Butterfly: PN 6 ... PN 16

**Valve Connection**
- Ball: Flanged, Screwed, Welded
- Butterfly: Wafer Type, lug Type, flanged Type

**Control**
- On-off or Proportional (4-20 mA input/output)

S91 Series Mini Motorized Ball Valve

**Dimension**
- 1/2˝...1”

**Supply**
- 12V AC/DC, 24V AC/DC, 220V AC

**Way**
- 3/2 - 2/2 way

**Body**
- Brass or Stainless Steel Ball Valve

Multi-Turn Electric Actuators

**Series**
- HM

**Torque Rotational Moment**
- 14 - 3000 Nm

**Application**
- Automation of gate and globe valves, as well as other multi-turn applications like sluices and weirs with large stem diameters

**Protection Class**
- Weatherproof IP67, optional IP68 (10m/72Hr) and Explosion Proof Enclosure Ex d II B T4(-20°C~60°C)

- Digital LCD window & smart design, handwheel for manual operating. Optionally 0~10V DC, 4~20mA input/output proportional control (PCU), current position transmitter output 4-20mA DC (CPT)
- MODBUS and PROFIBUS modules
### Pinch Valves / Hygienic Valves & Actuators

**Series**: TORK-PF Series Pinch Valves  
**Size**: DN40 ... DN500 Flanged, DN15 ... DN50 Screwed  
**Max. Working Pressure**: 2–6 bar  
**Body Material**: Aluminium Coated, Stainless Steel, Steel  
**Off Tire**: Abrasion Resistant Natural Rubber, Suitable Natural Rubber for Food, Suitable Natural Rubber for High Temperature, Nitrile Rubber, EPDM, Silicone  

**Series**: PAV 914 Stainless Steel Actuated Valve / HRA Stainless Steel Actuators  
**Size**: DN25 - DN150  
**Working Pressure**: -1 : 10 Bar  
**Materials**: AISI 316L Stainless Steel Body, Seat EPDM (on Request Viton, Silicon)  
**Application**: Food, Chemical and Sanitary Sectors

### Cryogenic Applications

**S9610 Series Solenoid Valves**  
**Size**: 1/4" ... 1"  
**Fluid Temperature**: -196 °C .... +90°C  
**Body**: Brass, Stainless  
**Leakproofing**: PTFE  
**Applications**: Liquid Nitrogen, Oxygen, LNG as used in the control of fluid.

### Natural Gas Products

**S8011, S8086 Series Solenoid Valves (for Natural Gas)**  
**Size**: 1/2" ... 2", 220 V AC 50 Hz, 12 V DC  
**Working Pressure**: (0 ... 500mbar) (0 ... 6 bar)  
**Position**: Normally Closed / Normally Open  
**GR20, GR30 Series Regulators / GR60 Series Shut Off Regulator (Natural Gas, LPG, Metan, Propan etc.)**  
**Inlet Pressure**: Max 500 mbar (GR20 Series), Max 1bar (GR30 & GR60 Series)  
**FDV Series Mechanical Earthquake Valve**: The valve provides the required shut-off when it is subjected to seismic vibration which is set according to the standad given acceleration value conditions.  
**TORK-GA 10 Series Gas Alarm Device**: It senses gas leakage and gives alarm. It turns off the valve and also gas supply line automatically.  
**TORK-GA 21 Series Ex-Proof Gas Alarm Device**: It senses gas leakage and gives alarm. It turns off the valve and also gas supply line automatically. Protection Class: II G Ex d IIB T6 IP65
### Pulse Solenoid Valves

**PL Series** (for dust filters with bag and bunkers)

- **Size:** 3/4", 1", 1 1/2" ... 3"
- **Body:** Aluminium injection
- **Diaphragm:** Neoprene
- **Connection:** Threaded, Coupling, Flanged
- **Working Press.:** 0.5 - 8 bar
- **Working Temperature:** -20°C ... 80°C
- **Coil Voltage:** 220 V, 110 V, 24 V, 12 V, AC/DC
- **Protection Class:** IP 65, IP 68 coil.
- **Time Relay:** It is used for controlling PL Series solenoid valves. On-off time and outlet quantity must be declared before.

![Time relay for pulse valve control](image)

### General Purpose Solenoid Valves / PTFE Coated Solenoid Valve & IP68 Coil

**S10 Series** (for Air, Water, Gas)

- **Size:** 1/8" ... 3"
- **Working Press.:** 0-16 / 0.5-16 / 0.5-40 bar / 2 - 70 bar
- **Working Temperature:** -10°C ... 130°C
- **Connection:** BSP threaded (NPT on request), Flanged (DN 80 ... DN 200)
- **Position:** Normally Closed (N.C.) / Normally Open (N.O)
- **Coil Voltage:** 220 V, 110 V, 24 V, 12 V, AC/DC
- **Protection Class:** IP 65 and IP68 coil.

**SW1010 Series** (PTFE Coated Solenoid Valve&IP68 Coil Under Water & Aggressive Enviroments)

PTFE Coated solenoid valve and C42 series IP68 Coils can be used in an environment with high humidity, rain and in places open to external influences such as water, 10 meters under water, in a dusty or acidic environment.

All our range of solenoid valves can be produced as capable of operating under aggressive environment and water.

### Steam Solenoid Valves

**S20 Series** (for Hot Water and Steam)

- **Size:** 1/8", 1/4", 3/8", 1/2", 3/4", 1 1/4", 1 1/2", 2"
- **Working Press.:** 0-6 bar / 0.5 - 6 bar
- **Working Temperature:** 160°C
- **Connection:** BSP threaded (NPT on request)
- **Position:** Normally Closed (N.C.) / Normally Open (N.O)
- **Coil Voltage:** 220 V, 110 V, 24 V, 12 V, AC/DC
- **Protection Class:** IP 65, IP 68, Ex-proof coil.
Vacuum Solenoid Valves

**S30 Series** (for Air, Water, Gas -10...90˚C)
- **Size**: 1/8", 1/4", 3/8", 1/2", 3/4", 1"
- **Working Press.**: (-1, 0, 1, 2, 3) bar and Vacuum
- **Working Temperature**: -10˚C ... 130˚C
- **Connection**: BSP threaded (NPT on request),
- **Position**: Normally Closed (N.C.)
- **Coil Voltage**: 220 V, 110V, 24 V, 12 V AC/DC,
- **Protection Class**: IP 65, IP 68, Ex-proof

Fuel Oil Solenoid Valves

**S40 Series** (for Fuel Oil, Gas, Burner, Diesel Oil and Hydraulic Oil) 7˚E
- **Size**: 1/8", 1/4", 3/8", 1/2", 3/4", 1 1/4", 1 1/2", 2"
- **Working Pressure**: 0-30 bar / 0.5 - 16 bar
- **Working Temperature**: -10˚C ... 160˚C
- **Connection**: BSP threaded (NPT on request),
- **Position**: Normally Closed (N.C.) / Normally Open (N.O)
- **Coil Voltage**: 220 V, 110 V, 24 V, 12 V, AC/DC
- **Protection Class**: IP 65 and Ex-proof

**S7130 Series**: For Filling Fuel Oil; Two Staged Solenoid Valve

Compressor Solenoid Valves

**S50 Series** (for compressor air with high pressure)
- **Size**: 1/8", 1/4", 3/8", 1/2", 3/4", 1 1/4", 1 1/2", 2"
- **Working Pressure**: 0 ... 16 bar, 0 ... 40 bar
- **Working Temperature**: -10˚C ... 160˚C
- **Connection**: BSP threaded (NPT on request),
- **Position**: Normally Closed (N.C.) / Normally Open (N.O)
- **Coil Voltage**: 220 V, 110 V, 24 V, 12 V, AC/DC
- **Protection Class**: IP 65, IP 68, Ex-proof coil.
### Stainless Steel Solenoid Valves / Pinch Solenoid Valves

**S60 Series**
- **Size**: 1/8", 1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"
- **Coil Voltage**: 220 V, 110 V, 24 V, 12 V, AC/DC
- **Body**: AISI 316
- **Working Pressure**: 0 ... 100 bar
- **Position**: Normally Closed (N.C.), Normally Open (N.O.)
- **Application**: Corrosive Fluid, Water, Oil, Acid etc.
- **Protection Class**: IP 65, IP 68, Ex-proof coil.

**S85 Series Pinch Solenoid Valves**
- **Size**: 5-9 mm rubber hose (50 shore A)
- **Coil Voltage**: 220 V, 110 V, 24 V, 12 V, AC/DC
- **Body**: Aluminum anodized
- **Position**: Normally Closed (N.C.), Normally Open (N.O.)
- **Application**: Corrosive Fluid, Water, Oil, Acid etc.

### Latching Solenoid Valves

**S83 Series**
- **Size**: 1/8", 1/4", 3/8", 1/2", 3/4", 1"
- **Coil Voltage**: 220 V, 110 V, 24 V, 12 V, AC/DC
- **Body**: Brass
- **Working Pressure**: Various Pressure Values Between 0 ... 100 bar
- **Application**: Corrosive Fluid, Water, Oil, Acid etc.
- • Each time that the coil is energized, the valve changes its position (from NC to NO)
- • To change the position, you need to re-energize the coil for short time
- • The coil cannot withstand continuous energy

### Fuel Oil Pump and Irrigation Solenoid Valves

**S80 Series (Fuel Oil Pump Solenoid Valve)**
- **Size**: 3/4", 1"
- **Coil Voltage**: 220 V, 110 V, 24 V, 12 V, AC/DC
- **Body**: Aluminium
- **Working Pressure**: 0,5 ... 10 bar
- **Application**: For Filling Fuel Oil; Two Staged Solenoid Valve

**S89 Series (Irrigation Solenoid Valve)**
- **Size**: 3/8" .... 3"
- **Coil Voltage**: 220 V, 110 V, 24 V, 12 V, AC/DC
- **Body**: PVC
- **Working Pressure**: 0,5 ... 10 bar
- **Application**: For Automatic Irrigation Systems
## Cooling Solenoid Valves

**S61 / S62 Series**
- **Size**: 1/4", 3/8", 1/2", 5/8", 7/8" SAE, ODF
- **Body**: Brass (Core Tube: Stainless Steel)
- **Working Temperature**: -30...105 °C
- **Working Pressure**: 0 bar .... 35 bar, 0,5 bar ... 21 bar
- **Position**: Normally Closed (N.C.)
- **Coil Voltage**: 230 V, 110V, 48 V, 24 V, 12 V, AC/DC
  - 110 V, 48 V, 24 V, 12 V DC
- **Protection Class**: IP 65
- **Application**: Cooling Systems, Refrigerators, Freezers Gas

## Exproof Solenoid Valves

**S70 / S73 Series**
- **Size**: 1/8" ... 2" BSP (On request NPT)
- **Body**: Brass (Core Tube: Stainless Steel)
- **Working Temperature**: -10...80 °C
- **Working Press.**: 0 bar .... 100 bar
- **Position**: Normally Closed (N.C.), Normally Open (N.O.)
- **Coil Voltage**: 230 V, 110V, 48 V, 24 V, 12 V, AC/DC
  - 110 V, 48 V, 24 V, 12 V DC
- **Protection Class**: II 2G Ex mb IIC T4 Gb
- **Application**: Air, Water, Gas etc. fluids

## Coils and Sockets

**Coils**: C40, C41, C42, C48 Series
- **Coil Voltage**: 220 V, 110V, 24 V, 12 V, AC/DC
  - IP 65 and IP 68 Protection Class and Ex-proof Coil.

**Freewheeling Diode Coils**: C44, C45 Series
- Freewheeling diode coils are designed to prevent electronic cards from reverse voltages inducted in coils when energy shutdown.

**Connectors**: C81, C82 Series Standart
- C81, C86 Series Led
- PWM Energy Saving Connector
Flowmeters with Float and Glass Tube Float

**Body**: Trogamit or polisulphone, Glass tube  
**Measurement Range**: 0.1 lt/h ... 60 m3/hours  
**Indicator**: It indicates instant flow  
**Switch Output**: Switch output or 4-20 mA  
**Fluid Types**: Water, Air, Alkalis, Gases

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Flowmeter Mechanical Indicator

**Body**: Stainless Steel, AISI 316  
**Measurement Range**: 0.1 l/h ... 1000 m³/hour  
**Connection**: DN 15 ... DN150 (1/4"-1/2", 3/4")  
**Output**: Instant Flow, Analog Signal Output 4-20 mA  
Switch Output, Totalizer.  
**Fluid Types**: Water, Air, Gaslar

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Electro - Magnetic Flowmeters / Ultrasonic Flowmeters

**Body**: PP, PTFE, PVDF, Hard rubber covered  
**Measurement Range**: 5-200 Lt/hour ... 150-7000 m³/hour  
**Connection**: DN3 ... DN500 Wafer, Flanged, Screwed, Clamp Type  
**Output**: Instant Flow Rate, Total Flow Rate, 4-20 mA or Pulse Output  
**Fluid Types**: Conductor Liquid Types (viscosity and independent from concentration)
Screwed Flowmeters with Turbine / Variable area Flowmeters

- **Body**: Brass, Stainless Steel, PPS, PVDF, Acrylics
- **Measurement Range**: 0.02 lt/min. ... 150 lt/min.
- **Digital Indicator**: Instant Flow and Optional Switch Output + Digital Indicator 4-20 mA Output
- **Fluid Types**: Water, Air, Oil, Alkalis, Fluid with High Viscosity, High Pressure (PN 300 max.)

Flowswitches / Flow Adjustable Flowswitches

- **Body**: Brass, Stainless Steel or Plastic
- **Measurement Range**: (1/8” ... 1”) or DN15 ... DN200
- **Temperature**: max. 125˚C, 350˚C (on request)
- **Switch**: Reed switch, one switch two ways or type with indicator.
  - Ex-proof models
- **Mounting**: Mounting opportunities
- **Application**: Fluid Types, Air, Water, Oil, Asit etc.

Level Switch with Float

- **Body**: Brass, PP, Stainless Steel
- **Switch**: Normally Open (N.O.)
  - Normally Closed (N.C.)
- **Connection**: 1/2", 3/4", 1"
- **Temperature**: -25 ... 105˚C, 180˚C, 300˚C
- **Ex-proof models exist.**
- **Application**: Liquid, Burnable, Explosive Atmosphere
  - (Ex-proof atmosphere)
## Level Switch with Rotary Paddle / Level Switch with Diaphragm / Level Switch for Solid and Vibrating System

<table>
<thead>
<tr>
<th>Body</th>
<th>Plastic, Aluminium, Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch</td>
<td>Normally Open (N.O.)</td>
</tr>
<tr>
<td></td>
<td>Normally Closed (N.C.)</td>
</tr>
<tr>
<td>Connection</td>
<td>1/2&quot;, 3/4&quot;, 1&quot;</td>
</tr>
<tr>
<td>Temperature</td>
<td>-20 ... 80 °C, 115 °C</td>
</tr>
<tr>
<td>Application</td>
<td>Fluid with Particles; (Wheat, Rice, Cement, Ceramic, Coal) Liquids; (LD60, LD 61 Types)</td>
</tr>
</tbody>
</table>

## Level Switch with Float

<table>
<thead>
<tr>
<th>Body</th>
<th>PVC, Stainless Steel, PTFE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Range</td>
<td>0.5 ... 96 meters and insertion types to 250 mt.</td>
</tr>
<tr>
<td>Connection</td>
<td>Screwed, Flanged</td>
</tr>
<tr>
<td>Pressure</td>
<td>PN 16 (Optional 320 bar)</td>
</tr>
<tr>
<td>Output</td>
<td>Switch and signal 4-20 mA</td>
</tr>
<tr>
<td>Ex-proof models exist.</td>
<td></td>
</tr>
<tr>
<td>Application</td>
<td>Liquids, Ex-proof Atmospheres, Storage, Deep Wells.</td>
</tr>
</tbody>
</table>

## Ultrasonic Level Switch / Level Measurement with Smart Transmitter

<table>
<thead>
<tr>
<th>Type</th>
<th>PVC, Stainless Steel, PTFE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Range</td>
<td>1.5 ... 6 meters</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>3%</td>
</tr>
<tr>
<td>Temperature</td>
<td>0 ... 60 °C</td>
</tr>
<tr>
<td>Output</td>
<td>4-20 mA max. Switch and instant level monitoring</td>
</tr>
<tr>
<td>Supply</td>
<td>24 V DC / 220 V AC</td>
</tr>
<tr>
<td>Application</td>
<td>Solid, Liquid, Chemical Fluid Type, Cabled level switches are used in liquid and fluid which contains solid particles in it. Special hygienic model exists for ex-proof atmosphere and potable water types.</td>
</tr>
</tbody>
</table>
**Manometers / Screwed Connection**

- **Type**: BURDON tubed, Plastic Body, Stainless Steel, panel Mounting Type, etc.
- **Measurement Range**: 0 ... 60 mbar, 1 bar ... 10.000 bar
- **Indicator Diameter**: Ø 63, Ø160 mm outlet from upside and downside.
- **Switch**: Indicator one switch, two switches
- **Sensitivity**: 1%, 1.6%
- **Application**: Air, Water, Medical Devices, Compresor, Petrochemistry, Purifying, Burner, Vacuum, Exhaust Gas, Hydraulic Systems, Beverage Various Fluid Types, Steam, etc.

**Manometer with Diaphragm / Test Manometers**

- **Body**: Stainless Steel
- **Switch**: Indicator One Switch, Two Switch
- **Diaphragm**: Teflon, Stainless Steel, Variable Applications
- **Measurement Range**: 0 ... 25 mbar ... 400 bar, 1600 bar
- **Indicator Diameter**: Ø100, Ø160 mm
- **Sensitivity**: 1.6%, 2.5%
- **Application**: Biochemistry, Nutrient, Filling Stations, Petrochemistry, Beverage, Water, etc.

**Manometer with Differential Pressure / Pressure Switch (Mechanical and Electronical Type)**

- **Type**: With Burdon Tube or Diaphragm
- **Switch Output**: Analog and digital indicator
- **Sensitivity**: 1%
- **Measurement Range**: 0 ... 400 mbar ...25 bar .. 100 bar
- **Pressure Switch Body**: Brass, Stainless Steel, Steel
- **Measurement Range**: -1 ... 10 bar / 5 ... 70 bar / 50 ... 400 bar
- **Application**: Chemistry, Oil Refinery, Pneumatic, Hydraulic Lines, Vacuum (Various Pressure Measurement).
MEASUREMENT AND CONTROL PRODUCTS

Pressure Transmitters / Smart Type Transmitter / Differential Pressure Switches

Pressure Transmitters
Switch Output : 4-20 mA (On request mV Output)
Measurement Range : Vacuum, between 0 ... 8000 bar based on your choice.

Ex-proof models exist.

Differential Pressure Switches
Body : Brass, Stainless Steel, Steel
Measurement Range : -1 ... 10 bar / 50 ... 400 mbar, 0-200mbar etc.
Application : Purifying, Filter, Washing Machine, Nutrient, Car Wash etc.

Vacuum Switch / Pressure Switch / Low Pressure Switches / Load Cells

Measurement Range : -50mbar ... 0 bar, 5 ... 200 mbar
200 ... 1000 mbar, 0 ... 4, 110, 15 bar
Switch Output : One Contact Two Ways / Two Contacts Two Ways
Adjustment : Stabile / Manuel controlled
Application : Purifying, Filter, Washing Machine, Nutrient, Car Wash etc.

Load Cell : For measuring weight, tension and pressure force.
There are too many types of usage areas.

Thermocouples and Temperature Measurement Control Panels

TK-thermocouple and PT100 sensors are used for sensing temperature. PT 100, Fe-const, NiCr-Ni, PtRd Pt measurements (-250°C ... 1600°C) are suitable for these devices. It is chosen according to the process.

Control Panels : Instant indicator, switch output, two-switches output, analog output (4-20 mA) types exist. It is chosen according to the process.
Smart Transmitters: For sensitive measurement of temperature, level, pressure.
MEASUREMENT AND CONTROL PRODUCTS

Remote Thermometers / Bi-metal Thermometers / Humidity Control Hygrostats

Outlet: From downside and upside
Measurement Range: -200 °C ... +700 °C
It is chosen according to the process
It indicates instant temperature.

Humidity Control Device: It is for measuring rook and canal humidity.
It supplies switch output.
Tmax: max 100 °C
Measurement Range: 95% humidity

Electro Pneumatic I/P Converters - E/P Converters

Type: Bellofram TORK-1000
Sensitivity: 0.1%
Voltage Supply: 24 V DC, AC
Signal Input: 4-20 mA, 0.5V, 0-10V, 0-15V
Pneumatic Outlet: 3 - 15 psi
Air Supply: max. 7 bar

Sensitive, Air Regulated Process Control Regulators (for Air and Gas)

Type: GR90/GR91/GR92 Series
Sensitivity: 0.5%
Connection: 1/8", 1/4", 1/2" BSP, NPT
Flow Rate Capacity: 400 - 1150 lt/min
Pressure: 27 bar / 280 bar
Regulatable Pressure: 0 - 8.5 bar
Application:
• For regulating process air pressure.
• It is used in LPG and natural gas applications.

Air Filter + Regulators (for Pneumatic Systems) FR

For regulating air pressure in pneumatic systems and filtering dust particles located in air.
Filter Capacity: 5 mm
Body: Aluminium
Connection: 1/4"
Max. Temperature: 70 °C
Manometer Connection: 1/8"
Outlet Pressure: 0 ... 8 bar
Inlet Pressure: 15 bar