



# CONTROLATE

M A E S T R O

## Redefining Excellence

( AN ISO 9001 : 2015 Certified Company )



**PRESSURE**



**VALVE & MANIFOLDS**



**TEMPRATURE**



**INSTRUMENTATION FITTINGS**



**LEVEL**



**Metallurgy**



**Light Industry  
& Pharmaceutical**



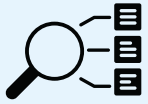
**Chemical  
& Refinery**



**Electric Power**



**Oil & Gas**



# PRODUCT CATEGORIES

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## PRESSURE

- Gauges
- Switches
- Diaphragm Seal
- Accessories

## TEMPRATURE

- Gauges
- Switches
- Resistance Temperature Detector
- Thermocouples
- Thermowells

## LEVEL

- Switches
- Gauges

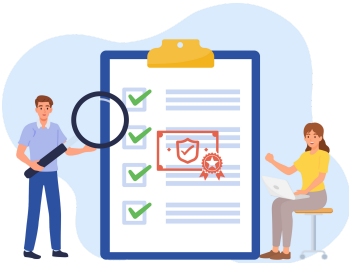
## INSTRUMENTATION VALVES & FITTINGS

- Valves
- Instrumentation Fittings
- Manifolds
- Tube Fittings

Our mission is simple yet profound : to empower industries with the most accurate and reliable Process Control Instruments and Solutions, contributing to their safety, efficiency, and success. We are driven by a commitment to excellence and a passion for delivering solutions that make a tangible difference in our customers' operations.

### Uncompromising Standards

We understand that precision and reliability are non-negotiable when it comes to process management. That's why every product that bears the Controlate Maestro Pvt Ltd name is a product of meticulous craftsmanship and unwavering quality control. Our products are built to last and perform, even in the harshest conditions.



### The Future We Envision

As a forward-thinking company, we don't just focus on the present; we're dedicated to shaping the future of Process Control Instruments and Solutions. With ongoing research and development, we aim to introduce innovative solutions that set new industry standards, making pressure measurement more efficient and accessible.



### Join Us in This Journey

At Controlate Maestro Pvt. Ltd., we invite you to explore our range of premium products and experience the unparalleled quality and precision that we stand for. We're not just selling instruments; we're building partnerships based on trust, reliability, and excellence.



## CONTACT US

Whether you're looking for a customized solution, technical guidance, or more information about our products, our dedicated team is ready to assist you. Join us in transforming industrial processes and driving innovation to new heights. Explore the future of process solutions with Controlate Maestro Pvt. Ltd by your side.

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### STANDARD FULL SS PRESSURE GAUGE

Dial Size : 40mm, 50mm, 63mm, 80mm, 100mm, 125mm, 150mm & 250mm  
 Ranges : -1 to 0...0.6 to 2100 bar  
 Wetted Parts : SS 316L & Monel  
 Mounting : Bottom, Back and with mounting bracket accessories  
 Accuracy : CL 0.5, CL 1.0 & CL 1.6  
 Dampening Liquid : Dry, Fillable & Filled  
 Standard followed : EN837-1, ANSI B40.1, IS 3624 & other National / International Standards



### SOLID FRONT FULL SS PRESSURE GAUGE

Dial Size : 63mm, 100mm & 150mm  
 Ranges : -1 to 0...0.6 to 2100 bar  
 Wetted Parts : SS 316L & Monel  
 Mounting : Bottom, Back and with mounting bracket accessories  
 Accuracy : CL 0.5, CL 1.0 & CL 1.6  
 Dampening Liquid : Dry, Fillable & Filled  
 Standard followed : EN837-1, ANSI B40.1, IS 3624 & other National / International Standards



### PHENOL CASE SOLID FRONT PRESSURE GAUGE

Dial Size : 4.5"  
 Ranges : -1 to 0...0.6 to 2100 bar  
 Wetted Parts : SS 316L & Monel  
 Mounting : Bottom, Back and with mounting bracket accessories  
 Accuracy : CL 0.5  
 Dampening Liquid : Dry, Fillable & Filled  
 Standard followed : ANSI B40.1



### LOW PRESSURE CAPSULE PRESSURE GAUGES

Dial Size : 63mm, 100mm & 150mm  
 Ranges : -6000mmWC to 0.....250mmWC to 6000mmWC  
 Wetted Parts : SS 316  
 Mounting : Bottom, Back and with mounting bracket accessories  
 Accuracy : CL 1.6  
 Standard followed : EN837-1, ANSI B40.1, IS 3624 & other National / International Standards



### SS CASE BRASS PRESSURE GAUGE

Dial Size : 40mm, 50mm, 63mm, 80mm & 100mm  
 Ranges : -1 to 0...0.6 to 700bar  
 Wetted Parts : Copper Alloy  
 Mounting : Bottom, Back and with mounting bracket accessories  
 Accuracy : CL 1.6 & CL 2.5  
 Dampening Liquid : Dry, Fillable & Filled  
 Standard followed : EN837-1, IS 3624 & other National / International Standards



### LOW PRESSURE DIAPHRAGM PRESSURE GAUGES

Dial Size : 100mm & 150mm  
 Ranges : -1bar to 0.....250mmWC to 16bar  
 Wetted Parts : SS 316, Monel & Hastelloy 'C-276'  
 Mounting : Bottom, Back and with mounting bracket accessories  
 Accuracy : CL 1.6  
 Standard followed : EN837-1, ANSI B40.1, IS 3624 & other National / International Standards



### ELECTRIC CONTACT STANDARD FULL SS PRESSURE GAUGE

Dial Size : 100mm&150mm  
 Ranges : -1 to 0...0.6 to 2100 bar  
 Wetted Parts : SS 316L & Monel  
 Mounting : Bottom, Back and with mounting bracket accessories  
 Accuracy : CL 0.5, CL 1.0 & CL 1.6  
 Dampening Liquid : Dry, Fillable & Filled  
 Standard followed : EN837-1, ANSI B40.1, IS 3624 & other National / International Standards  
 Contact Type : Magnetic Snap Action & ATEX Inductive Contact  
 No. of Contacts : Single, Double & Triple Contacts for ON / OFF action\



### ELECTRIC CONTACT HI-CASE FULL SS PRESSURE GAUGE

Dial Size : 100mm & 150mm  
 Ranges : -1 to 0...0.6 to 2100 bar  
 Wetted Parts : SS 316L & Monel  
 Mounting : Bottom, Back and with mounting bracket accessories  
 Accuracy : CL 0.5, CL 1.0 & CL 1.6  
 Dampening Liquid : Dry, Fillable & Filled  
 Standard followed : EN837-1, ANSI B40.1, IS 3624 & other National / International Standards  
 Contact Type : Magnetic Snap Action & ATEX Inductive Contact  
 No. of Contacts : Single, Double & Triple Contacts for ON / OFF action



### TRANSMITTER FULL SS PRESSURE GAUGE

Dial Size : 100mm & 150mm  
 Ranges : -1 to 0...0.6 to 600bar  
 Wetted Parts : SS 316L & Monel  
 Mounting : Bottom, Back and with mounting bracket accessories  
 Accuracy : CL 0.5(Transmitter)  
 Transmitter : 2 Wire,24VDC  
 Dampening Liquid : Dry, Fillable & Filled  
 Standard followed : EN837-1, ANSI B40.1, IS 3624 & other National / International Standards



### DIFFERENTIAL PRESSURE GAUGES – SINGLE & DOUBLE DIAPHRAGM

Type : Single & Double Diaphragm  
 Dial Size : 100mm & 150mm  
 Ranges : -6000mmWC to 0.....250mmWC to 16bar  
 Static Pressure : 60 bar (Single Diaphragm) & 100bar (Double Diaphragm)  
 Wetted Parts : SS 316, Monel & Hastelloy 'C-276'  
 Mounting : Bottom, Back and with mounting bracket accessories  
 Accuracy : CL 1.6& CL 2.5  
 Standard followed : EN837-3 & other National / International Standards



### DIFFERENTIAL PRESSURE GAUGES – PISTON OPERATED

Dial Size : 63mm, 100mm & 150mm  
 Ranges : 25mbar to 4bar  
 Static Pressure : 200bar  
 Wetted Parts : SS 316  
 Mounting : Bottom, Back and with mounting bracket accessories  
 Accuracy : CL 1.6 & CL 2.5



## BIMETAL TEMPERATURE GAUGE

Dial Size : 63mm, 80mm, 100mm, 125mm & 150mm  
 Ranges : -100°C to 0...50°C to 650°C  
 Stem Sizes : 6.0mm, 6.35mm, 8.0mm, 9.5mm, 10mm & 12.0mm  
 Mounting : Bottom, Back, Elbow & Every Angle  
 Accuracy : CL 1.0  
 Dampening Liquid : Dry, Fillable & Filled  
 Standard followed : EN13190 & other National / International Standards



## INERT GAS FILLED TEMPERATURE GAUGE

Dial Size : 100mm, 125mm & 150mm  
 Ranges : -100°C to 0...50°C to 650°C  
 Stem Sizes : 6.0mm, 6.35mm, 8.0mm, 9.5mm, 10mm & 12.0mm  
 Mounting : Bottom, Back, Every Angle and with mounting bracket accessories  
 Stem Mounting : With Capillary & without Capillary  
 Accuracy : CL 1.0  
 Dampening Liquid : Dry, Fillable & Filled  
 Standard followed : EN13190 & other National / International Standards



## INERT GAS FILLED ELECTRIC CONTACT TEMPERATURE GAUGE

Dial Size : 100mm, 125mm & 150mm  
 Ranges : -100°C to 0...50°C to 650°C  
 Stem Sizes : 6.0mm, 6.35mm, 8.0mm, 9.5mm, 10mm & 12.0mm  
 Mounting : Bottom, Back, Every Angle and with mounting bracket accessories  
 Stem Mounting : With Capillary & without Capillary  
 Accuracy : CL 1.0  
 Dampening Liquid : Dry, Fillable & Filled  
 Standard followed : EN13190 & other National / International Standards  
 Contact Type : Magnetic Snap Action & ATEX Inductive Contact  
 No. of Contacts : Single, Double & Triple Contacts for ON / OFF action

## THERMOWELL



Construction : Barstock, Fabricated  
 Connection : Threaded, Flanged, Sanitary etc.  
 Material : Alloy Steel, Stainless Steel, Duplex Steel, Nickel Alloys, Superalloys, Titanium, Tantalum  
 : PTFE, Tungsten Carbide, Cermic, Tantalum Sleeve etc.



## RESISTANCE TEMPERATURE DETECTOR

- Connection : Fixed, Adjustable, Nipple, N-U-N, Flanged & Threaded
- Accuracy : Class A, Class B
- Element : Pt100, Pt500 & Pt1000
- Sheath : Mineral Insulated Cable
- Enclosure : Aluminium, SS with IP65, IP66, IP67, IP68, Ex-proof, Flameproof, ATEX



## THERMOCOUPLE

- Connection : Fixed, Adjustable, Nipple, N-U-N, Flanged & Threaded
- Accuracy : Class 1
- Element : J, K, T, E, N, R, S, U, B
- Sheath : Mineral Insulated Cable
- Sheath Material : SS 316, SS310, SS446, Inconel 600, Inconel 800
- Enclosure : Aluminium, SS with IP65, IP66, IP67, IP68, Ex-proof, Flameproof, ATEX



## RESISTANCE TEMPERATURE DETECTOR

- Connection : Fixed, Adjustable, Nipple, N-U-N, Flanged & Threaded
- Accuracy : Class A, Class B
- Element : Pt100, Pt500 & Pt1000
- Sheath : Mineral Insulated Cable
- Cold End Termination : PTFE, PTFE/PTFE/SS, OMEGA Connectors, Others as per requirement



## THERMOCOUPLE

- Connection : Fixed, Adjustable, Nipple, N-U-N, Flanged & Threaded
- Accuracy : Class 1
- Element : J, K, T, E, N, R, S, U, B
- Sheath : Mineral Insulated Cable
- Sheath Material : SS 316, SS310, SS446, Inconel 600, Inconel 800
- Enclosure : Aluminium, SS with IP65, IP66, IP67, IP68, Ex-proof, Flameproof, ATEX
- Cold End Termination : PTFE, PTFE/PTFE/SS, OMEGA Connectors, Others as per requirement



### MAGNETIC LEVEL INDICATOR

Easy Installation, External Mounting, Bi-color flag indicators, Optional point level switches, Optional transmitter output.

Process connection	: Threaded / Flanged
Center-to-Center distance	: 250 mm (Min.) up to 6000 mm (Max.)
Indicator length	: 250 mm (Min.) up to 6000 mm (Max.)
Chamber material	: AISI 316 SS / AISI 316L SS/ Polypropylene
Mounting	: Side/Side or Top



### REFLEX / TRANSPARENT LEVEL GAUGE

Reflex / Transparent type glass indicator, High pressure & temperature, For clear liquid level indication

Process connection	: Threaded / Flanged
Center-to-Center distance	: 350 mm (Min.) up to 6000 mm (Max.)
Visible length	: ± 50 mm to C-C distance
Body material	: ASTM A105 / AISI 304 SS / AISI 316 SS
Mounting	: Side/Side



### TUBULAR LEVEL GAUGE

Easy Installation, External Mounting, Economical version.

Process connection	: Threaded / Flanged
Center-to-Center distance	: 250 mm (Min.) up to 1,500 mm (Max.)
Tubular glass	: Acrylic / Borosilicate glass
Glass protection	: Powder coated Carbon Steel channel box
Mounting	: Side/Side

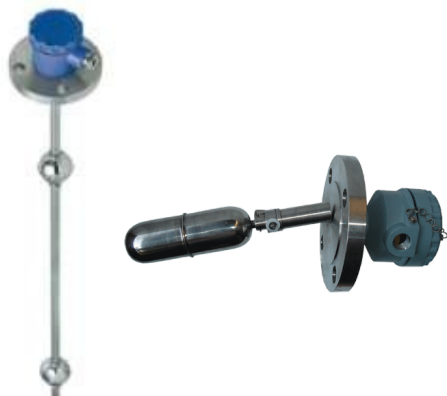


### FLOAT & BOARD LEVEL GAUGE

Easy Installation, Float and scale follower type

Process connection	: Flanged
Measuring range	: 3 up to 20 Meters
Float material & range	: AISI 316 SS / Ø200 mm or Ø350 mm
Indication	: Powder coated red CI pointer with Nylon rollers
Float / Guide wire ropes	: AISI 316 SS / AISI 304 SS (Ø 1.6 mm)

## MAGNETIC LEVEL SWITCH



Type	: Miniature, Cable Float, Side Mounted, Top Mounted
Connection	: BSSP, NPT, Flanged etc.
Material	: PP, SS316 etc.





**BALL VALVE** : SS304, SS316, SS316L etc.  
Material : BSPP, NPT etc.  
Connection : 1500 psi, 3000 psi & 6000 psi



**NEEDLE VALVE**  
Type : Isolation, Single Block & Bleed, Double Block & Bleed, Multiport  
Connection : BSPP, NPT etc.  
Material : Alloy Steel, Stainless Steel, Duplex Steel, Nickel Alloys, Superalloys, Titanium, Tantalum  
Pressure : 6000 psi, 10000 psi & 15000 psi etc.



**MANIFOLDS**  
Type : 2-WAY, 3-WAY, 4-WAY, 5-WAY, DISTRIBUTION  
Connection : BSPP, NPT, Coplanar etc.  
Material : Alloy Steel, Stainless Steel, Duplex Steel, Nickel Alloys, Superalloys, Titanium, Tantalum  
Pressure : 6000 psi, 10000 psi & 15000 psi etc.



**MONOFLANGE**  
Type : Single Block & Bleed, Double Block & Bleed  
Connection : Flanged as ANSI, EN etc.  
Material : Alloy Steel, Stainless Steel, Duplex Steel, Nickel Alloys, Superalloys, Titanium, Tantalum  
Pressure Rating : As per Flange size & rating

## INSTRUMENTATION FITTINGS



Male Connector



Cross



Elbow



Tee



Union



### GAUGE COCK

Type : 2-Way or 3-Way  
 Material : SS304, SS316, SS316L etc.  
 Connection : BSPP, NPT etc.  
 Pressure Rating : 100 bar



### SIPHON

Type : Coil, Pigtail(Q), U  
 Material : SS304, SS316, SS316L etc.  
 Connection : BSPP, NPT etc.  
 Pressure Rating : According pipe size & schedule



### GAUGE SAVER

Type : Bellow, Piston  
 Range : 0.6 bar to 400 bar  
 Material : SS304, SS316, SS316L, Monel, Hastelloy 'C-276' etc.  
 Connection : BSPP, NPT etc.  
 Pressure Rating : 600 bar



### PULSATION DAMPENER

Type : Adjustable Screw  
 Material : SS304, SS316, SS316L, Monel, Hastelloy 'C-276' etc.  
 Connection : BSPP, NPT etc.  
 Pressure Rating : 400 bar



### FLUSHING RING

Type : Bellow, Piston  
 Material : Alloy Steel, Stainless Steel, Duplex Steel, Nickel Alloys, Superalloys, Titanium, Tantalum  
 Connection : In-built with Seal, As per Flange Size & rating



### COOLING TOWER

All SS construction 4 variable designs  
 Type : Fin, Perforated, Capillary, Miniature fin  
 Material : SS304, SS316, SS316L etc.  
 Maximum pressure : 1000 bar  
 Maximum temp. : 500°C



### THREADED DIAPHRAGM SEAL

Forged chambers Rigid construction Laser welded diaphragm Optional exotic materials  
 Range type : -1...0 bar & 0...700 bar  
 Wetted parts : AISI 316L SS, Monel, Hastelloy C (others on request)  
 Sealing fluid : Silicon DC 200 (-40...205°C) (others on request)  
 Protection on wetted parts : Optional  
 Assembly : Direct/Remote

### FLANGED DIAPHRAGM SEAL

Forged chambers Rigid construction Laser welded diaphragm Optional exotic materials  
 Range type : -1...0 bar & 0...700 bar  
 Wetted parts : AISI 316L SS, Monel, Hastelloy C (others on request)  
 Sealing fluid : Silicon DC 200 (-40...205°C) (others on request)  
 Protection on wetted parts : Optional  
 Assembly : Direct/Remote

### SANITARY / PULP DIAPHRAGM SEAL

Forged chambers Rigid construction Laser welded diaphragm Optional exotic materials  
 Range type : -1...0 bar & 0...40 bar  
 Wetted parts : AISI 316L SS, Monel, Hastelloy C (others on request)  
 Sealing fluid : Silicon DC 200 (-40...205°C) (others on request)  
 Protection on wetted parts : Optional  
 Assembly : Direct/Remote

## DIAPHRAGM SEAL INTEGRATION



### THREADED / FLANGED DIAPHRAGM SEAL

Forged chambers Rigid construction Laser welded diaphragm Optional exotic materials  
 Range type : -1...0 bar & 0...700 bar  
 Wetted parts : AISI 316L SS, Monel, Hastelloy C (others on request)  
 Sealing fluid : Silicon DC 200 (-40...205°C) (others on request)  
 Protection on wetted parts : Optional  
 Assembly : Direct/Remote



### WEATHERPROOF PRESSURE SWITCH

Fix / adjustable differential, Field adjustable set point, Weatherproof to IP 67,  
 Internal set point lock, Rigid construction, Scale provided

Range : 250 mmWC to 600 bar

Repeatability : 1 % F.S.

Sensing Elements : AISI 316 SS / Monel / Hastalloy, Diaphragm

Switch : 1 SPDT, 15A,250 VAC / 2A,24 VDC (Others on request)

Mounting : Bottom / Panel

Enclosure Material : Aluminum pressure die cast



### FLAMEPROOF PRESSURE SWITCH

Fix / adjustable differential, Field adjustable set point, Weatherproof to IP 67,  
 Internal set point lock, Rigid construction, Scale provided

Range : 250 mmWC to 600 bar

Repeatability : 1 % F.S.

Sensing Elements : AISI 316 SS / Monel / Hastalloy, Diaphragm

Switch : 1 SPDT, 15A,250 VAC / 2A,24 VDC (Others on request)

Mounting : Bottom / Panel

Enclosure Material : Aluminum pressure die cast



### DIFFERENTIAL PRESSURE SWITCH (WEATHERPROOF / FLAMEPROOF)

Fix / adjustable differential, Field adjustable set point, Weatherproof to IP 67,  
 Internal set point lock, Rigid construction, Scale provided

Range : 250 mmWC to 60 bar

Repeatability : 1 % F.S.

Sensing Elements : AISI 316 SS / Monel / Hastalloy, Diaphragm

Switch : 1 SPDT, 15A,250 VAC / 2A,24 VDC (Others on request)

Mounting : Bottom / Panel

Enclosure Material : Aluminum pressure die cast



### TEMPERATURE SWITCH (WEATHERPROOF / FLAMEPROOF)

Fix / adjustable differential, Field adjustable set point, Weatherproof to IP 67,  
 Internal set point lock, Rigid construction, Scale provided

Range : -50 to 650°C

Repeatability : 1 % F.S.

Sensing Elements : Inert Gas Filled

Switch : 1 SPDT, 15A,250 VAC / 2A,24 VDC (Others on request)

Mounting : Bottom / Panel

Enclosure Material : Aluminum pressure die cast

# CONTROLATE MAESTRO PVT LTD

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Whether you're looking for a customized solution, technical guidance, or more information about our products, our dedicated team is ready to assist you. Join us transforming industrial processes and driving innovation to new heights. Explore the future of process solutions with Controlate Maestro Pvt. Ltd by your side.



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