



NOT JUST ANOTHER PRESSURE GAUGE
THE ORIGINAL.

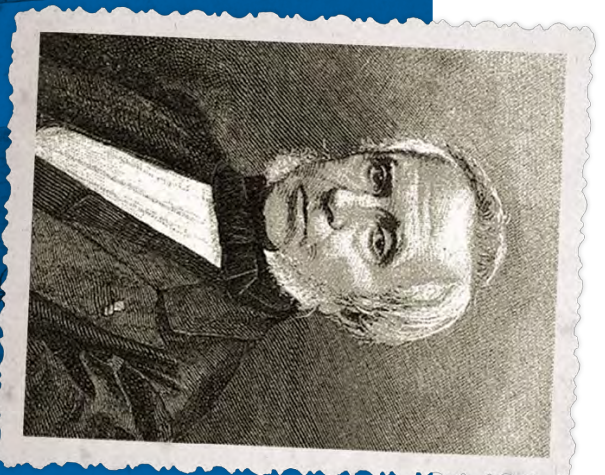


The Original Bourdon

History and Innovation

“The Best Way Towards A Bright Future Is A Bright Past.”

When he discovered the manometer, Eugène Bourdon was searching for improvement but found a solution that would endure for centuries. Our engineers, much like Bourdon himself, continually find themselves facing challenges: Know the unknown and continuously optimize to find a solution.



It's All About The Internals.



Case: Stainless steel or Monel, with or without blow-out plug on the back. Safety level S1, S2 or S3 (EN 837).

Window: Instrument glass, polycarbonate or safety glass.

Bourdon tube: Stainless steel or Monel (seamless as an option).

Process connections (several types: 6 1/4 NPT, M20x1.5, ...)

Restrictor screw for reducing pressure peaks.

Vent plug filling with damping fluid (e.g. glycerine, silicone, etc. depending on application). Optional: Dry, without filling.

Movement: Stainless steel, optionally available with silicone damping (Dashipol) for applications with vibrations or pulsations.

Standard: EN837-1 or ASME B40.1.

Dial: Optional customer specific.

Customer logo: Black or colored.





DIAL PRINTING



DATE STAMP



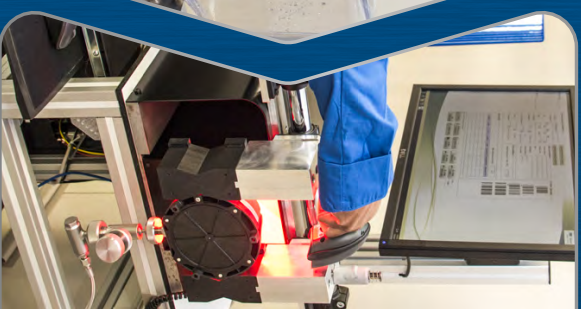
OVER PRESSURE & INITIAL CALIBRATION



CLOSING & CRIMPING



FILLING



FINAL TESTING & BTRACE COMPLIANCE

Our gauges are assembled here in the USA

Science and history have taught us that improvement and optimization call for extraordinary experience as well as bright, curious minds that are able to confidently explore new territory. Bourdon, is a pioneer. As a pioneer, Bourdon sees in each new situation an opportunity to discover and develop a unique method or process of innovation.

Bourdon continues manufacturing the famous Bourdon products, adding on modern production and quality methods which provide significant benefits especially for the Oil & Gas industry. Production starts with the bending of the Bourdon tube and finishes with final testing and compliance of our BTrace standards.



BTrace comprises of six elements

Bourdon Business System for process optimization in production and management

Traceability throughout the whole order process

Reliability compliant to the "Zero Defect Philosophy" (ZDP)

Automation representing the advanced and computer-based calibration and certification system

Consistency in continuous optimization based on Lean Management, MUDA and KAIZEN

Excellence for highest quality to the customer



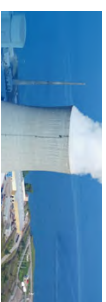
**PROUDLY SERVING MULTIPLE INDUSTRIES
FOR OVER 150 YEARS.**



Industries We Serve



OIL & GAS



ENERGY / POWER PLANTS



FOOD & BEVERAGE



MACHINE BUILDING



WATER TREATMENT



HVAC



TRANSPORTATION



CUSTOMER SPECIFIC

BRASS INTERNAL OPTIONS



MAX3



MAX3



MAG3



MAG5

Protection	IP65	IP65	IP66	IP66
Size	2.5"	4"	2.5"	4"
Range	Vac.....15,000 psi	Vac.....15,000 psi	Vac.....15,000 psi	Vac.....15,000 psi
Accuracy	1.6	1	1.6	1
Wetted Parts	Copper Alloy	Copper Alloy	Copper Alloy	Copper Alloy
Element	Bourdon Tube	Bourdon Tube	Bourdon Tube	Bourdon Tube
Case	Stainless	Stainless	Brass	Brass
Process Connection	1/4 NPT	1/4 NPT 1/2 NPT	1/4 NPT	1/4 NPT 1/2 NPT








Prepared for any requirement.

Reliable results even under extreme conditions

Bourdon stands for more than 150 years of expertise in measuring technology. The patented original Bourdon Tube by French engineer Eugene Bourdon, firmly branded the company's history and is still the essential component of precise mechanical pressure measuring instruments.



SPEED
AVAILABILITY
SERVICE

							
Protection	IP53/43	IP65	IP65	IP65	IP67	IP67	IP65
Size	1.5"	2"	2.5"	4"	4.5"	4"	6"
Range	20...300 psi	Vac...15,000 psi	Vac...15,000 psi	Vac...20,000 psi	Vac...20,000 psi	Vac...20,000 psi	Vac...20,000 psi
Accuracy	2.5	1.6	1.6	1	0.5	1	1
Wetted Parts	Stainless	Stainless	Stainless	Stainless	Stainless	Stainless	Stainless
Element	Bourdon Tube	Bourdon Tube	Bourdon Tube	Bourdon Tube	Bourdon Tube	Bourdon Tube	Bourdon Tube
Case	Stainless	Stainless	Stainless	Stainless	Polypropylene	Stainless	Stainless
Process Connection	1/8 NPT 1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT 1/2 NPT	1/4 NPT 1/2 NPT	1/4 NPT 1/2 NPT	1/4 NPT 1/2 NPT
Approval	ATEX	Lloyd's Register / ATEX	Lloyd's Register / ATEX	Lloyd's Register / ATEX	S3 Safety level	Lloyd's Register / ATEX	Lloyd's Register / ATEX

Principle of a Bourdon Tube

A flattened tube tends to straighten or regain its circular form in cross-section when pressurized. Although this change in cross-section may be nearly imperceptible, and thus involving only moderate stresses within the elastic range of easily workable materials, the strain of the material of the tube is magnified by forming the tube into a C shape or even a helix, such that the entire tube tends to straighten out or uncoil, elastically, as it is pressurized.



Minimizing vibrations or pulsations:

Filling with dampening fluid or dashpot in the movement



Bourdon complies with many norms and approvals
Our excellence in product quality has won us recognition with prestigious certifications from many different regulatory bodies.



**SPEED
AVAILABILITY
SERVICE**



D055



D6



DT



D400

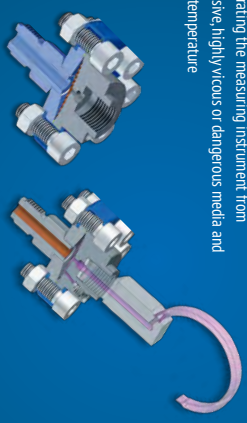


DA

Process Connection	D055	D6	DT	D400	DA
Process Connection	Threaded-Flush	Threaded	Threaded	Flanged	Sanitary Clamp
Body Standard	Stainless	Stainless	Stainless	Stainless	Stainless
Diaphragm	Stainless	Stainless	Stainless, Hast. C, Tantalum, Monel	Stainless, Hast. C, Tantalum, Monel	Stainless
Measuring Ranges	15...10,000 psi	15...6,000 psi	Vac...15,000 psi	3...6,000 psi	15...600 psi
Approval	N/A	N/A	N/A	N/A	3A

Chemical Seals

Separating the measuring instrument from corrosive, highly viscous or dangerous media and high temperature



Highly resistant membrane materials and coatings for extremely aggressive media



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- Same day response time
- Same day order processing
- 24 hour shipping guarantee
- Rapid part development





CTX



Y913



X913



RP2

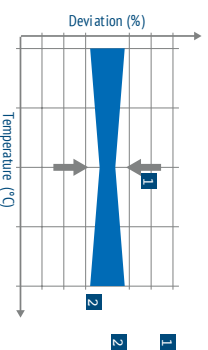
Protection Ratings	IP65/67	IP67	IP65	IP66
Measuring Ranges	Vac...3000 psi	Vac...10,000 psi	Vac...10,000 psi	15...1500 psi
Wetted Materials	Stainless / Ceramic /NBR /EPDM /FKM	Stainless / Ceramic /NBR /EPDM /FKM	Ceramic/Thick Film	Stainless
Output	4..20 mA	4..20 mA	4..20 mA	1
Technology	Ceramic/Thick Film	Ceramic/Thick Film	Ceramic/Thick Film	Over Pressure
Accuracy	0.5% (BFSL)	0.3% (BFSL)	0.3% (BFSL)	Repeatability
Connections	1/4 NPT 1/2 NPT	1/4 NPT 1/2 NPT	1/4 NPT 1/2 NPT	Connections
Electric Connections	M12-4 / DIN 45650 /cable	M12-4 / DIN 45650 /cable	1/2 NPT Conduit w/cable & Internal terminal strip gland	Current Ratings
Approvals	ATEX	ATEX	ATEX /Hazardous Area 1,11,2,21,22	Approvals

The Bourdon In-House Cell Competence
Bourdon provides the optimum technology for your specific application



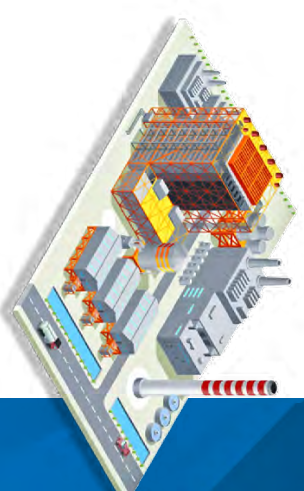
Total Error Band

The total error band specifies the characteristic deviation (linearity, hysteresis, repeatability) and the thermal drift over a temperature range.



Mechanical Pressure Switches

A proven technology for power plants



AVAILABILITY



- Your supply chain partner
- Your custom part solution
- Parts you need, when you need them
- Largest stock selection in our industry

PRESSURE ACCESSORIES



ARPX



AMPD



AORP



ABA



ASIP



AKPL

Process Temperature	-4...480 F	390 F	300 F	480 F	750 F	IP65
Max Pressure	6000 psi	6000 psi	10,000 psi	9000 psi	6000 psi	-30°-20 Hg to 0.20000 PSI
Materials	Steel / Stainless Steel / PTFE	Stainless Steel / PTFE	Stainless Steel / Viton	Steel / Stainless Steel	Steel / Stainless Steel	Stainless steel



Bourdon provides complete assembly of your gauge and chemical seal needs.

Bourdon complies with many norms and approvals. Our excellence in product quality has won us recognition with prestigious certifications from many different regulatory bodies.



- Commitment to quality
- Dedicated regional support
- Technical expertise
- Consistent info the first time


BI-METAL
TBI
Protection Rating

IP67

Dial Size

3.75" x 3.6"

Ranges

-100...1100°F

Accuracy

1

Case Materials

Stainless

Stem Lengths

25" - 36"

Sensing Element

Stainless Bimetal

Capillary

NA

Connection Size

1/2 NPT

Approvals

ATEX


GAS FILLED
TSS
Protection Rating

IP65

Dial Size

2.5" x 4.6"

Ranges

-100...1100°F

Accuracy

1

Case Materials

Stainless

Stem Lengths

4" - 36"

Sensing Element

Stainless Gas Filled

Capillary

NA

Connection Size

1/2 NPT

Approvals

ATEX


TSF
Protection Rating

IP65

Dial Size

2.5" x 4.6"

Ranges

-100...1100°F

Accuracy

1

Case Materials

Stainless

Stem Lengths

4" - 36"

Sensing Element

Stainless Gas Filled & Capillary

Capillary

NA

Connection Size

1/2 NPT

Approvals

ATEX


SWITCHES
RT2
Protection Rating

IP66

Measuring Ranges

-40...650°F

Wetted Parts

Stainless

Set Points

1

Repeatability

1% FS

Current Ratings

10ma to 10 A max 250 VAC / 220 VDC

Sensor Type

Stem or with Capillary

Connection

1/2 NPT

Approval

ATEX

To measure temperature accurately is a question of proper sensor placement.

With Bourdon you can always rely on competent advice

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Our excellence in product quality has won us recognition with prestigious certifications from many different regulatory bodies.



**SPEED
AVAILABILITY
SERVICE**



T8410, T9093, T9143, T9346



T8416, T9144, T9367



AGW, AGF

Process Connections	Threaded	Welded	Flanged & Threaded
Process Temp	1100 F	1100 F	1100 F
Pressure Max	3600 psi	3600 psi	6000 psi
Materials	Brass / Steel / Stainless Steel	Steel / Stainless Steel	Stainless Steel
Length	2' - 36"	2' - 36"	4' - 36"
Immersion Tube	4, 6, & 8 mm	6, 8 mm	7 - 18 mm

Our thermowells are produced to the highest quality standards.

All wells can be provided with any test or certificate needed in lengths up to 36".



When looking to fill your process instrumentation needs, look no further than “The Original Bourdon”.

Worldwide Presence

Worldwide certified quality.



Assembly in the U.S.A., ensures the speed, availability, and service you need.

Atlanta, GA U.S.A

India

Switzerland

Denmark

France

Venezuela

Germany

Saudi Arabia

Bourdon USA
BourdonUSA.com

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Kennesaw, GA 30152

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