

NOT JUST ANOTHER PRESSURE GAUGE **THE ORIGINAL.**



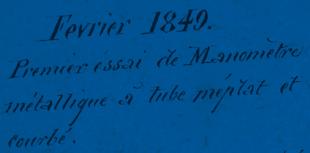
Process Instrumentation

The Original Bourdon

History and Innovation

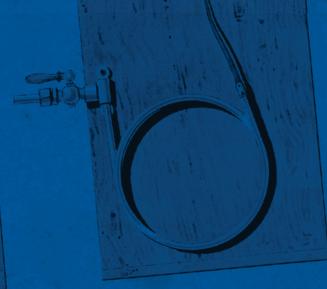
"The Best Way Towards A Bright Future Is A Bright Past."

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 blowout 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: G ½,½ 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 (Dashpot) for applications with vibrations or pulsations.

Standard: EN837-1 or ASME B40.1.

Dial: Optional customer specific.

Customer logo: Black or colored.



Bourdon Our Process



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.





CLOSING & CRIMPING

FILLING

FINAL TESTING & BTRACE COMPLIANCE

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



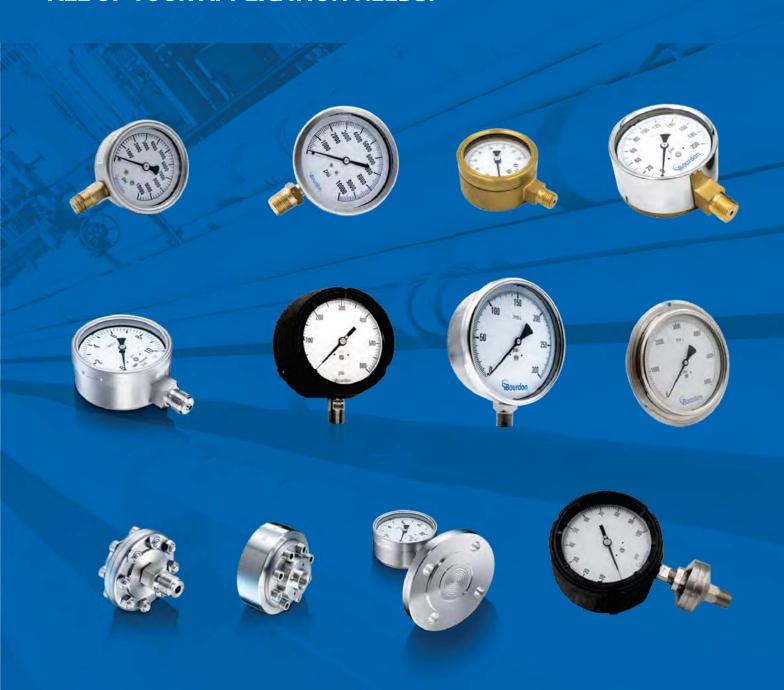
TRANSPORTATION



CUSTOMER SPECIFIC



BOURDON'S VAST PORTFOLIO IS SURE TO COVER ALL OF YOUR APPLICATION NEEDS.



PART NUMBER NOMENCLATURE		-				Нхх	
Modal							
Forged Brass (2.5", 4")	MAG						
Stainless Case with brass internals (2.5", 4")	MAX						
Stainless Case with stainless internals (1.5", 2", 2.5", 4")	MEX						
Process gauge, stainless internals (4.5")	MPG						
Stainless case with stainless internals (6")	MIX						
Dial Size							
1.5"		1					
2"		2					
2.5"		3					
4"		5					
4.5"		6					
6"		7					
		-					
Mounting / Style STAINLESS STEEL CASE AND BEZEL RING 1.4301 (AISI 304)							
Bottom connection, 3 back lugs fixing			Α				
Back connection, front flange, 3 mounting holes			В				
Bottom / front flange			С				
Bottom connection			D				
Back connection, 3 back lugs fixing			E				
Back connection with clamp			G				
Connection Type 1/8" NPT				4			
1/4" NPT				5			
1/2" NPT				6			
Fill Options					0		
Dry							
Low Temp Glycerine					1		
Glycerine					2		
Silicone					3		
Pressure Ranges psi						Нхх	
Options to be added							

Code	psi	Code	psi	Code	psi	Code	psi
H59	-30" Hg - 0	H82	-30" Hg - 300	H22	0 - 160	H34	0 - 3000
H73	-30" Hg - 15	H13	0 - 10	H23	0 - 200	H38	0 - 6000
H75	-30" Hg - 30	H15	0 - 15	H25	0 - 300	H40	0 - 10000
H2C	-30" Hg - 60	H1C	0 - 20	H26	0 - 400	H41	0 - 15000
H78	-30" Hg - 100	H17	0 - 30	H27	0 - 600	H1D	0 - 20000
H79	-30" Hg - 150	H19	0 - 60	H30	0 - 1000		
H81	-30" Hg - 220	H21	0 - 100	H31	0 - 1500		

Example	MEX	5	-	В	6	0	H22	/
All stainless steel pressure gauge ◀								
Nominal size 4" ◀								
Back connection, front flange, 3 mounting holes, case material 1.4301								
Process connection 1/2 NPT ◀								
No liquid filling ◀								
Single scale psi ANSI : 0 160 psi								

S BRASS INTERNAL OPTIONS





	MAX3	MAX5
Protection	IP65	IP65
Size	2.5"	4"
Range	Vac15,000 psi	Vac15,000 psi
Accuracy	1.6	1
Wetted Parts	Copper Alloy	Copper Alloy
Element	Bourdon Tube	Bourdon Tube
Case	Stainless	Stainless
Process Connection	1/4 NPT	1/4 NPT 1/2 NPT



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 history and is still the essential component of precise mechanical pressure measuring instruments.





		_	-
M	Δ	(-	4

IP66

2.5"

1.6

Vac....15,000 psi

Copper Alloy

Bourdon Tube

Brass

1/4 NPT

MAG5

IP66

4"

Vac....15,000 psi

Copper Alloy

Bourdon Tube

Brass

1/4 NPT 1/2 NPT



SPEED **AVAILABILITY SERVICE** Brass Internal Options | 11

PRESSURE GAUGES









	MMX1	MEX2	MEX3, MEM3	MEX5, MEM5
Protection	IP33/43	IP65	IP65	IP65
Size	1.5"	2"	2.5"	4"
Range	20300 psi	Vac15,000 psi	Vac15,000 psi	Vac20,000 psi
Accuracy	2.5	1.6	1.6	1
Wetted Parts	Stainless	Stainless	Stainless	Stainless
Element	Bourdon Tube	Bourdon Tube	Bourdon Tube	Bourdon Tube
Case	Stainless	Stainless	Stainless	Stainless
Process Connection	1/8 NPT 1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT 1/2 NPT
Approval	ATEX	Lloyds Register / ATEX	Lloyds Register / ATEX	Lloyds 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.









MPG6	MEP5	MIX7
IP67	IP67	IP65
4.5"	4"	6"
Vac20,000 psi	Vac20,000 psi	Vac20,000 psi
0.5	1	1
Stainless	Stainless	Stainless
Bourdon Tube	Bourdon Tube	Bourdon Tube
Polypropylene	Stainless	Stainless
1/4 NPT 1/2 NPT	1/4 NPT 1/2 NPT	1/4 NPT 1/2 NPT
S3 Safety Level	Lloyds Register / ATEX	Lloyds Register / ATEX

Bourdon complies with many norms and approvals

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









S DIAPHRAGM SEALS







	D055	DG	DT
Process Connection	Threaded-Flush	Threaded	Threaded
Body Standard	Stainless	Stainless	Stainless
Diaphragm	Stainless	Stainless	Stainless, Hast C, Tantalum, Monel
Measuring Ranges	1510,000 psi	156,000 psi	Vac15,000 psi
Approval	N/A	N/A	N/A











D400	DA
Flanged	Sanitary Clamp
Stainless	Stainless
Stainless, Hast C, Tantalum, Monel	Stainless
36,000 psi	15600 psi
N/A	3A

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

S ELECTRONIC PRESSURE





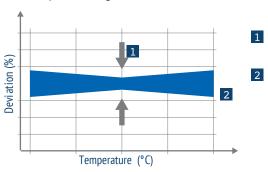


	СТХ	Y913	X913
Protection Ratings	IP65,67	IP67	IP65
Measuring Ranges	Vac3000 psi	Vac10,000 psi	Vac10,000 psi
Wetted Materials	Stainless / Ceramic / NBR /EPDM /FKM	Stainless / Ceramic / NBR /EPDM /FKM	
Output	420 mA	420 mA	420 mA
Technology	Ceramic Thick Film	Ceramic Thick Film	Ceramic Thick Film
Accuracy	0.5% (BFSL)	0.3% (BFSL)	0.3% (BFSL)
Connections	1/4 NPT 1/2 NPT	1/4 NPT 1/2 NPT	1/4 NPT 1/2 NPT
Electric Connections	M12-4 / DIN 43650 /cable	M12-4 / DIN 43650 / Cable	1/2 NPT Conduit w/cable & Internal terminal strip gland
Approvals		ATEX	ATEX / Hazardous Area: 11,12,21,22

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



PRESSURE SWITCHES



	RP2
Protection Rating	IP66
Measuring Ranges	151500 psi
Wetted Materials	Stainless
Set Points	1
Over Pressure	3000 psi
Repeatability	1%
Connections	1/4 NPT 1/2 NPT
Current Ratings	10mA to 10 A max 250 VAC / 220 VDC

ATEX

Mechanical Pressure Switches

A proven technology for power plants

Approvals



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

PRESSURE ACCESSORIES









ASIP	AKPL
750 F	IP65
6000 psi	-30"0 Hg to 020,000 PSI
Steel / Stainless Steel	Stainless steel



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

Bourdon complies with many norms and approvals

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









THERMOMETERS







BI-METAL	TBI	GAS FILLED	TSS	TSF
Protection Rating	IP67	Protection Rating	IP65	IP65
Dial Size	3",4",5",6"	Dial Size	2.5",3",4",6"	2.5",3",4",6"
Ranges	-1001100 F	Ranges	-1001100 F	-1001100 F
Accuracy	1	Accuracy	1	1
Case Materials	Stainless	Case Materials	Stainless	Stainless
Stem Lengths	2.5"-36"	Stem Lengths	4" - 36"	4" - 36"
Sensing Element	Stainless Bimetal	Sensing Element	Stainless Gas Filled	Stainless Gas Filled & Capillary
Capillary	NA	Capillary	NA	12" - 80'
Connection Size	1/2 NPT	Connection Size	1/2 NPT	1/2 NPT
Approvals	ATEX	Approvals	ATEX	ATEX

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

With Bourdon you can always rely on competent advice



SWITCHES	RT2	
Protection Rating	IP66	
Measuring Ranges	-40650 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	

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	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 France

India Venezuela

Switzerland Germany

Denmark Saudi Arabia

For More Information Please Contact: