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Innovating with High Standards and Commitment.

Magwell LLC is an established manufacturer of Custom Bespoke designed Level Measurement Instruments, founded in the year 2016, is based in Lafayette, Louisiana.

Magwell specializes in the Level Measurement Technology of Magnetic Level Gauges, Switches and Transmitters and also Pressure & Temperature Instruments.

We produce high-quality and technically perfect products, so that we can offer our customers the best possible solutions.

Our activities are geared towards their needs, their requirements and their wishes. The results of customer requirements and experience are constantly factored into our product development process. We develop new products in close cooperation with our customers. We fulfill our customer's requirements, accept their challenges and develop forward-thinking technologies for them.

Magwell Product Ranges

- Pressure & Differential Pressure Gauges
- Temperature Gauges
- Magnetic Level Gauges & Transmitters
- Thermowells
- Needle Valves & Accessories
- Diaphragm Seals

Why Choose Magwell

- World Class Products
- Safety at Every Level
- Quick Delivery
- Complete Solutions
- Expert Guidance
- Reliability
- Fast & Efficient Service

Industries Served

- Oil & Gas Industries
- Offshore Oil Rigs
- Chemical & Petrochemical Plants
- Power
- Water & Waste Water Industries
- District Cooling Plants
- Skid Manufacturers

Select the Right Measurement Solutions

We help you to Select the Right Products for your most Demanding Applications, for a more Reliable and Safe Measurements.

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Pressure Measurement

- Safety Pattern Bourdon Tube Pressure Gauges
- Capsule Type Low Pressure Gauges
- Schaeffer Type Diaphragm Pressure Gauges
- Phenolic Case Pressure Gauges
- Solid Front Aluminum Case Gauges
- Commercial Gauges

Differential Pressure Measurement

- Piston Type DP Gauges
- Diaphragm Type DP Gauges
- Bellows Type Low Pressure Pressure Gauges

Temperature Measurement

- Bimetal Thermometers
- Gas Actuated Thermometers
- RTD's
- Thermocouples
- Temperature Transmitters
- Thermowells - Threaded, Flanged & VanStone

Level Measurement

- Magnetic Level Gauges
- Transparent Type Level Gauges
- Magnetostrictive Level Transmitters
- Side Mounted Level Switches
- Vertical Float Switches
- Reflex Type Level Gauges

Diaphragm Seals

- Threaded Diaphragm Seals
- Flanged Diaphragm Seals

Flow Elements

- Orifice Plates
- Pitot Tubes

Accessories

- 2 Valve Manifolds
- 3 Valve Manifolds
- 5 Valve Manifolds
- Gauge Cock
- Gauge Saver
- Siphon
- Snubber
- Needle Valves
- Flushing Rings

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Magwell Model M100 Series are designed to measure pressure from -1 to 1,600 bar. M100 Series uses specially designed Bourdon Tube, which makes it a better product for Accuracy, Repeatability, Reliability and Safety.

Standard Features

- All Welded Design
- SS 316L Case and Bayonet Ring
- Micro-Zero Adjustable Pointer
- Shatter Proof Safety Glass
- Vibration Dampening Mechanism
- Design Standard EN 837-1 and ASME B40.100
- High Over Pressure for Safety
- Weather Protection IP 66 / IP67

63 mm





100 mm

Applications

- Liquid & Gaseous Medium
- Corrosive Environments
- Offshore Oil Rigs & Platforms
- Chemical & Petrochemical Plants
- Power & Utility
- Water & Waste Water Treatment Facilities
- Other Critical Process Industries

Specification

Design Standard :	EN 837-1, ASME B40.100
Case Style :	Open Front, with rear Blow Out Cap - M100 Solid Front, with Full Blow Out Disc - M101
Accuracy :	± 1.6% for 63 mm Gauges ± 1.0% for 100 mm & 160 mm Gauges ± 0.5% optional for 100 mm & 160 mm Gauges
Ambient Temperature :	-40 ~ +65° C
Process Temperature :	200°C Max
Sensing Elements :	Bourdon Tube (>100bar : C Type, <100 bar : Helical Type)
Case & Bayonet Material :	SS 316L
Movement :	AISI 304 SS, Optional SS 316L
Dial :	Aluminium, Black Graduation on White Background
Pointer :	Micro-Zero adjustable, Aluminum, Black Powder Coated
Gaskets, Blow out Disc & Filling Plug :	Neoprene / NBR
Window :	Shatterproof Safety Glass
Ingress Protection :	IP66 / IP67
Fill Fluid Options :	Glycerin, Silicon Oil
Range :	-1 to 1,600 bar
Over Pressure Limit :	130% of Full Scale, Optional 150%

Component Materials

Bourdon Tube :	SS 316L, Monel 400
Bayonet Ring :	SS 316L
Blow Out Disc :	SS 316L
Shank :	SS 316L, Monel 400
Mounting Pattern :	Stem, Flush & Surface Mount
Movement :	Adjustable

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Capsule Type Pressure Gauge Model M300

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Magwell Model M300 Series Capsule Type Gauges are designed for low Pressure Measurement. Capsule Pressure Gauges employ the use of a welded capsule housing two thin diaphragms. One diaphragm measures the pressure signal and the other is used as a reference point. The relative deflection of the capsule is then translated into a rotational movement through the use of mechanical linkages, causing the pointer to move around the dial of the gauge.

Standard Features

- Compact Design
- Micro-Zero Adjustable Pointer
- Shatter Proof Safety Glass
- Design Standard EN 837-1
- Weather Protection IP 66 / IP67
- Low Pressure Application (<0.6 bar)



Applications

- Liquid & Gaseous Medium
- Corrosive Environments
- Offshore Oil Rigs & Platforms
- Chemical & Petrochemical Plants
- Power & Utility
- Water & Waste Water Treatment Facilities
- Clean-Air Applications

Specification

Design Standard :	EN 837-1
Case Style :	Open Front, with rear Blow Out Disc
Accuracy :	± 1.6% for 100 mm & 160 mm Gauges ± 0.5% optional for 100 mm & 160 mm Gauges
Ambient Temperature :	-40 ~ +65° C
Process Temperature :	150°C Max
Sensing Elements :	Capsule
Case & Bayonet Material :	AISI 316, Bayonet Type
Movement :	AISI 304 SS, Optional SS 316L
Dial :	Aluminium, Black Graduation on White Background
Pointer :	Micro-Zero adjustable, Aluminum, Black Powder Coated
Gaskets, Blow out Disc & Filling Plug :	Neoprene / NBR
Window :	Shatterproof Safety Glass
Ingress Protection :	IP65
Fill Fluid Options :	Glycerin, Silicon Oil
Range :	0 to 100 mbar
Over Pressure Limit :	130% of Full Scale, Optional 150%

Component Materials

Capsule Element :	SS 316L
Bayonet Ring :	SS 316
Blow Out Disc :	Neoprene
Shank :	SS 316L
Mounting Pattern :	Stem
Movement :	Adjustable

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Model M400 Schaeffer Type Pressure Gauge

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The Schaeffer Pressure Gauge Model M400 has a Diaphragm as the sensing element. Diaphragm seals creates a barrier between the process media and the pressure sensing element, without compromising the instrument's sensitivity or accuracy.

Diaphragm Seals are typically made from a thin pressure-sensitive film out of metal or PVDF based on the process media. Protect your measuring Instruments from freezing, suspended impurities & slurries.

These instruments are more reliable and easy to protect against overpressure than the Bourdon tube type.

Application

- Mining
- Oil & gas
- Chemical Processing
- Power Generation
- Food Processing
- Water Treatment
- Pharmaceuticals, and more.



Features

- Compact Design
- Optimum Fill Fluid for Maximum Flexing of the Diaphragm
- Various Combinations of Top, Bottom Housing
- Various options Diaphragm Materials to suit your Process Requirements
- Various Process and Instrument Connection options available
- 3.1 Certificates
- Pulsation Dampener as Option
- Overpressure Protector as Option
- Syphon as Option
- Needle Valve as Option
- Optional Accuracy of +1.0% of FS

Specifications

Accuracy	: ±1.6% of FS
Ambient Temperature	: -25°C to +65°C
Dial Size	: 100, 150 mm
Internals	: SS 316L
Sensing Element	: Diaphragm Type SS316
Top Chamber	: SS 316, SS 316L
Bottom Chamber	: SS 316, SS 316L
Case	: AISI 304 SS, SS316
Ring	: AISI 304 SS, Bayonet Type
Protection	: IP 66
Dial	: Aluminium, Black Graduation on White Background
Pointer	: Aluminium, Black painted
Window	: Shatter Proof Safety Glass
Pressure Range	: 0 ~ 25 bar, Vacuum & compound : -1/+24 bar
Process Connection	: 1/2" NPT (M), 1/4" NPT (M)
Mounting	: Bottom

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Phenolic Case Gauges Model M129

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Built to resist the most severe conditions, and designed to facilitate a high level of operator safety, Phenolic Case Gauges are used. Phenolic is a resin based on phenol and aldehydes which can be used in corrosive and hazardous environments. They are usually made with stainless steel wetted parts, which provide corrosion resistance. Phenolic Gauges offer a high level of operator safety. The safety design is between the pressure sensing element and the window, with a solid wall between them. Normally, the back blow protects the user from liquids and particles in the event of a malfunction.

Magwell Phenolic pressure gauge features a micro adjustable pointer and a vibration and shock resistant mechanism, as a standard.

Features

- Corrosion resistant pressure gauge with high level of operator safety
- Durable and corrosion resistant case
- Turret Design
- ASME B40.100 standards followed
- Solid Front Case with Blowout Back
- Accuracy as per Grade 2A / ±0.5%
- Glycerine can be filled in the field
- Micro adjustable pointer



Applications

- Liquid & Gaseous Medium
- Corrosive Environments
- Oil & Gas Applications
- Chemical & Petrochemical Plants
- Food & Beverage Industries
- Nuclear Power Plants

Specification

Dial :	4 1/2”
Design :	ASME B40.100
Safety Category :	S3 safety pattern gauge with Solid Front
Accuracy Class :	0.5% (Grade 2A)
Ranges :	-1 to 9 bar & psi through to 0 to 1,600 bar & psi
Case :	Phenolic
Case Design :	Solid front case with blowout back and built in back flange
Process Connection :	1/4”, 3/8” & 1/2” BSP/NPT/BSPT (others available on request)
Connection Orientation :	Bottom / Back
Connection Material :	SS 316L or Monel
Measuring Principle :	Bourdon Tube - SS 316L or Monel
Movement :	Stainless Steel 304
Window :	Laminated Safety Glass
Pointer :	Black Aluminum and micro adjustable pointer
Filling :	Dry, Glycerine, Silicone or Halocarbon
Working Pressure :	Steady: 75% full scale range Fluctuating: 60% full scale range Short time: full scale range
Operating Temperature :	Ambient: -40 to +60°C Medium: -40 to +100°C
Storage Temperature :	-40 to +60°C
Temperature Effect :	When temperature of the pressure element deviates from reference temperature of 20°C the maximum additional error is +/-0.4 per 10°C of the span rising and falling
Ingress Protection :	IP 65

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Magwell Model M131 Series are designed for Power Generation, Marine, Offshore and Defense Applications. These are Solid Font Safety Pattern Pressure Gauges. M131 Series uses specially designed Bourdon Tube, which makes it a better product for Accuracy, Repeatability, Reliability and Safety.

Standard Features

- Aluminum with Integral Baffle Safety Pattern
- Micro-Zero Adjustable Pointer
- Shatter Proof Safety Glass
- Vibration Dampening Mechanism
- Design Standard EN 837-1 and ASME B40.100
- High Over Pressure for Safety
- Weather Protection IP 66 / IP67

63 mm



100 mm

Applications

- Liquid & Gaseous Medium
- Corrosive Environments
- Offshore Oil Rigs & Platforms
- Chemical & Petrochemical Plants
- Power & Utility
- Water & Waste Water Treatment Facilities
- Other Critical Process Industries

Specification

Design Standard :	EN 837-1, ASME B40.100
Case Style :	Solid Front, with rear Blow Out Disc - M131
Accuracy :	± 1.0% for 100 mm & 160 mm Gauges ± 0.5% optional for 100 mm & 160 mm Gauges
Ambient Temperature :	-40 ~ +65° C
Process Temperature :	200°C Max
Sensing Elements :	Bourdon Tube (>100bar : C Type, <100 bar : Helical Type)
Case & Bayonet Material :	Aluminum
Movement :	AISI 304 SS, Optional SS 316L
Dial :	Aluminium, Black Graduation on White Background
Pointer :	Micro-Zero adjustable, Aluminum, Black Powder Coated
Gaskets, Blow out Disc & Filling Plug :	Neoprene / NBR
Window :	Shatterproof Safety Glass
Ingress Protection :	IP66 / IP67
Fill Fluid Options :	Glycerin, Silicon Oil
Range :	-1 to 1,600 bar
Over Pressure Limit :	130% of Full Scale, Optional 150%
Surface Coating :	Black Epoxy Coated, Other colors on Request

Component Materials

Bourdon Tube :	SS 316L, Monel 400
Bayonet Ring :	Aluminum
Blow Out Disc :	Neoprene
Shank :	SS 316L, Monel 400
Mounting Pattern :	Stem, Flush & Surface Mount
Movement :	Adjustable

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Differential Pressure Gauge Model M500

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Magwell Model M500 Series, the movement of the piston is converted into appropriate calibrated rotary movement of the pointer through a magnetic connection. This type of piston model is used in applications where minor migration of the media from high pressure side (HP) to low pressure side (LP) is permitted. Instruments can be supplied with reed switches to initiate alarms, activate other equipment, or shut the system down. Two switches are used when high and low limits are desired. Gauge-switch models provide the user with both, gauge readout and switch operation.

Standard Features

- Piston Operated Design
- SS 316L Case from 2" to 6"
- Shatter Proof Safety Glass
- High Static Pressure Capability
- Weather Protection IP 65
- Dry or Liquid Filled Case
- Optional Reed Switches
- High Operating Pressure unto 200 bar

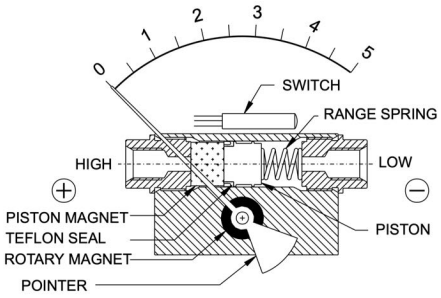


Applications

- Filtration Plants
- Flow Lines
- Hydraulics
- Measure Strainer Pressure Drop
- Power & Utility
- Water & Waste Water Treatment Facilities
- Other Critical Process Industries

Specification

Accuracy	: ±2% of the FSD
Range	: 0 ~ 0.25 to 0 ~ & 10 bar
Sensing Element	: Piston
Wetted Parts	: SS 316, Brass, Aluminum
Case Material & Dial Size	: SS 304, 2", 2.5", 3.5", 4", 4.5" & 6"
Mounting	: Direct, Front Flange, 2" Pipe or Surface Mounting
Max. Working Pressure	: 200 bar to Aluminum & Brass, 400 bar for SS316 & Monel
Max. Process Temperature	: 0 ~ 80°C Max
Body Material	: Aluminum, Brass, SS 316 & Monel
Seals	: Bune-N, Vitor & EPDM
Window	: Float Glass, Toughened Glass, Acrylic & Safety Glass
Connection	: 1/4" NPT(F), 1/4" BSP (F) , for others through Adapter
Porting	: In-line, Lower, Back
Over Range Protection	: Upto the Max. Working Pressure



Switch Options

1 or 2 SPSTs with a DIN plug
1 or 2 SPSTs with a terminal strip
1 or 2 SPSTs with a built in relay
1 or 2 SPDTs with a DIN plug
1 or 2 SPDTs with a terminal strip

Ratings for Reed Switches			
Switches	**Contact Rating**	**Current**	**Voltage**
SPST	10 VA ac (rms) or dc (Max)	0.5 Amp ac (rms) or dc (Max)	100 Vac/Vdc (max)
SPDT	3 VA ac (rms) or dc (Max)	0.3 Amp ac (rms) or dc (Max)	30 Vac/Vdc (max)

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Differential Pressure Gauge Model M505

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Magwell M505 Differential Pressure Gauge are the most reliable and cost effective gauges, made from Engineered Polymer. They are available from ranges 0 ~ 0.15 to 0 ~ 2 bar.

Features

- Engineered Polymer Case for Durability & Strength
- Panel Mounting Possible
- Light Weight
- Condensation can be Cleaned

Applications

- Air and collector bag filter
- Air filter monitoring
- Back Flow prevention
- Ballast Water Filtration
- Cryogenic tank level measurement
- Flow rate monitoring and control
- Irrigation Filtration
- Liquid tank level measurement
- Monitoring of HVAC systems
- Natural gas filtration
- Pump and blower performance
- Reverse flow detection
- Self cleaning filter
- Strainer monitoring



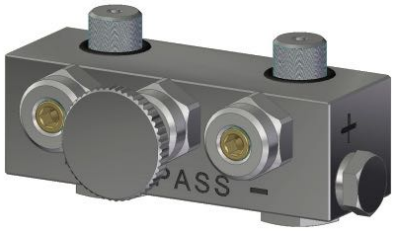


Specification

Accuracy	: 20% of the FSD (≤ 10% on request) Ascending
Migration	: Minor from High to Low Port
Range	: 0~0.15 to 0~2bar or equivalent range in other units
First Marking on Scale	: 20% of the FSD
Sensing Part	: Piston
Wetted Parts	: SS 302 Spring, Ceramic Magnet & Seals
Case Material	: Engineered Polymer, 2.5” Dial Size
Mounting	: Direct
Max Working Pressure	: 100 bar
Design Temperature	: 2-0 °C to 80 °C (-4° F to 176 °F)
Body Material	: Aluminium
Window	: Acrylic
Connection	: 1/4" BSP (F)
Porting	: Bottom
Over Range Protection	: Up to the max working pressure ~ High &Low Side
Protection	: IP 66/ NEMA-4
Switch	: 1SPST or SPDT with Blue Exit Cable 2 m

3 Way Manifold for DP Gauges

Connection	: 1/4” BSP
Max Working Pressure	: 100 bar
Body Material	: Steel EN1APb (plated)
PIN	: Brass
O-Rings	: Nitrile



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Differential Pressure Gauge Model M600

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Magwell Model M600 Series, is a Double Diaphragm Differential Pressure Gauge, with High Static Pressure ratings for unto 400 bar. M600 gauges are mainly used for measuring the difference between two pressure values such as flow measurement, tank level, the entrance and exit of pump, oil pipeline and high pressure pump station, etc.

Standard Features

- Double Diaphragm Type
- SS 316L Case
- Shatter Proof Safety Glass
- High Static Pressure Capability of unto 400 bar
- Weather Protection IP 65
- Dry or Liquid Filled Case
- High Corrosive Resistance



Applications

- Petrochemical Industries
- Flow Lines
- Hydraulics
- Power & Utility
- Water & Waste Water Treatment Facilities
- Other Critical Process Industries

Specification

Accuracy	: ±1.6% of the FSD
Range	: 0 ~ 350 psi
Sensing Element	: Double Diaphragm
Wetted Parts	: SS 316
Case Material & Dial Size	: SS 316L,
Mounting	: Direct, 2” Pipe or Surface Mounting
Max. Static Pressure	: 100, 250 & 400 bar
Max. Process Temperature	: 0 ~ 60°C Max
Body Material	: SS 316
Window	: Laminated Safety Glass
Connection	: 1/4” NPT(F), 1/4” BSP (M) , 1/4” NPT (M), 1/2” NPT (M), 1/2 BSP (M) others on request
Pointer	: Micro Pointer Aluminum Black
Dial	: Aluminium, Black Marking on white Background
Over Range Protection	: Upto the Max. Working Pressure
Protection Class	: IP65
Filling Fluid	: Glycerine, Silicone, Others on Request
Mounting	: Direct, Optional 2” Pipe Mounting
Connection Location	: Lower

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Bellows Type DP Gauges Model M530

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Magwell Model M530 is a Bellows Type Differential Pressure Gauge which is typically used for measuring very low Differential Pressure Ranges. These gauges can withstand a static pressure of 10 times of the range pressure.

Application

- Oil & gas
- Chemical Processing
- Power Generation
- Food Processing
- Water Treatment
- Pharmaceuticals, and more.

Features

- Stainless Steel Case and wetted Parts
- Static Pressure of unto 10 time of the Range Pressure
- Protection Class IP 65
- Compact Design
- Can be mounted to the Manifolds directly
- Optional Accuracy of +1.0% of FS



Model M530

Specifications

Construction	: Open Front SS case with Bayonet Ring
Accuracy	: ±1.6% of FS, Optional ±1.0% of the FS
Ambient Temperature	: -40°C to +65°C
Process Temperature	: Max 100°C
Dial Size	: 150 mm
Internals	: SS 316L
Sensing Element	: Twin Bellows
Bellows Material	: SS 316L
Process Connection Material	: SS 316L
Case	: AISI 304 SS, SS316L
Ring	: AISI 304 SS, Bayonet Type
Protection	: IP 65
Dial	: Aluminium, Black Graduation on White Background
Pointer	: Aluminium, Black painted
Window	: Shatter Proof Safety Glass
Pressure Range	: 0.6 ~ 10 bar
Process Connection	: 1/2" NPT (M), 1/4" NPT (M), 1/4: NPT F, 1/2” NPT F, 1/2 BSP M others on request
Process Connection Location	: Bottom
Mounting	: Bottom, Wall Mounting, 2” Pipe Mounting
Optional Accessories	: 3 or 5 valve remote or Direct Mounted Manifolds

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Bimetallic Thermometer Model M200

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Magwell Model M200 Series bimetallic thermometer is a temperature measurement device. It converts the media's temperature into mechanical displacement using a bimetallic strip. The bimetallic strip consists of two different metals having different coefficients of thermal expansion. Bimetallic Thermometers are normally installed within a Thermowell. Bimetallic Thermometers are known for Accuracy, Repeatability, Reliability and Safety.

Standard Features

- SS 316 Case and Bayonet Ring
- Micro-Zero Adjustable Pointer
- Shatter Proof Safety Glass
- Silicone filled to reduce Pointer Flutter
- Design Standard EN 13190, ASME B40.200
- Weather Protection IP 66 / IP67



Applications

- Offshore Oil Rigs & Platforms
- Chemical & Petrochemical Plants
- Power & Utility
- Water & Waste Water Treatment Facilities
- HVAC
- Chemical Injections Skids
- Food & Beverage
- Pharmaceutical
- Other Critical Process Industries

Specification

Design Standard :	EN 13190, ASME B40.200
Dial Sizes :	4", 5" & 6"
Accuracy :	± 1.0% of Span
Ambient Temperature :	-40 / +65° C
Range :	-40°C to 600°C
Sensing Elements :	Bimetallic Strip
Case & Bayonet Material :	SS 316
Connection :	1/2" NPT Adjustable Union, 1/2" NPT
Dial :	Aluminium, Black Graduation on White Background
Pointer :	Micro-Zero adjustable, Aluminum, Black Powder Coated
Gaskets :	Neoprene / NBR
Window :	Shatterproof Safety Glass
Ingress Protection :	IP66 / IP67
Fill Fluid Options :	Silicon Oil
Stem Length :	2.5" to 24"
Stem Diameter :	6.6 mm, 8 mm
Units :	°C, °F, Dual Scale

Note

Thermowells should be used whenever the stem would be exposed to pressure, corrosion, velocity, abrasion or shear forces. The temperature sensor is inserted in the open end of the thermowell and typically spring-loaded to ensure that the outside tip of the temperature sensor is in metal to metal contact with the inside tip of the thermowell. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.

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Gas Actuated Thermometer Model M201

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Magwell Model M201 Series Gas Actuated Thermometer is a temperature measurement device. It converts the media's temperature into mechanical displacement caused by the variation in volume or pressure of inert gas, which is filled in the bulb. As the temperature changes, the density of the gas changes thereby increasing the pressure, which can be read on a dial. By adding a capillary, the dial can be mounted remotely from the measurement location. Gas Actuated Thermometers are normally installed within a Thermowell. Gas Actuated thermometers are normally used for very High or Low temperature measurement. These thermometers are known for Accuracy, Repeatability, Reliability and Safety.

Standard Features

- SS 316L Case and Bayonet Ring
- Adjustable Micro Pointer
- Fast Response
- Shatter Proof Safety Glass
- Silicone filled to reduce Pointer Flutter
- Design Standard EN 13190,
- Weather Protection IP 66 / IP67



Applications

- Offshore Oil Rigs & Platforms
- Chemical & Petrochemical Plants
- Power & Utility
- Water & Waste Water Treatment Facilities
- Chemical Injections Skids
- Food & Beverage
- Pharmaceutical
- Other Critical Process Industries

Specification

Design Standard :	EN 13190
Dial Sizes :	4", 4.5", 5" & 6"
Accuracy :	± 1.0% of Span
Ambient Temperature :	-40 / +65° C
Range :	-40°C to 600°C
Bulb/Stem length :	55 mm to 1000 mm
Stem Diameter :	6mm, 8mm, 10mm
Capillary length :	100 to 4,000mm, other lengths on request
Case & Bayonet Material :	SS 316L
Movement :	AISI 304 SS
Connection :	1/2" NPT Adjustable Union, 1/2" NPT
Dial :	Aluminium, Black Graduation on White Background
Pointer :	Micro-Zero adjustable, Aluminum, Black Powder Coated
Gaskets, Blow out Disc & Filling Plug :	Neoprene / NBR
Window :	Shatterproof Safety Glass
Ingress Protection :	IP66 / IP67
Fill Fluid Options :	Silicon Oil
Units :	°C, °F, Dual Scale

Note

Thermowells should be used whenever the stem would be exposed to pressure, corrosion, velocity, abrasion or shear forces. The temperature sensor is inserted in the open end of the thermowell and typically spring-loaded to ensure that the outside tip of the temperature sensor is in metal to metal contact with the inside tip of the thermowell. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.

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Magwell Thermowells

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Thermowell is a cylindrical fitting used to protect temperature sensors installed when measuring temperate of the process medium be it liquid or gas, the thermowell protects the Bimetal Thermometer, RTD's & Thermcouples. It also protects the liquid from contamination. Thermowell acts as a barrier between a process medium and the sensing element of a temperature measuring device. It protects against corrosive process media, as well as media contained under pressure or flowing at a high velocity.

Features

- Solid Bore Construction
- Wide selection of Materials
- Numerous combinations for complex industrial applications
- Meets ASME PTC 19.3 TW-2016 Standards
- Materials according to NACE MR 01-75
- Custom engineered to most demanding requirements
- Unique Serial numbers on all Thermowells
- Completely Designed and Engineered in-house
- Wake Frequency calculations shall be provided*
- Full penetration welds on all Flanged Thermowells

Wake Frequency Calculation

Magwell uses New Thermowell velocity design software that ensures you meet the new code ASME PTC 19.3 TW 2016.

Applications

- Liquid & Gaseous Medium
- Corrosive Environments
- Oil & Gas Applications
- Chemical & Petrochemical Plants
- Food & Beverage Industries
- Nuclear Power Plants

Magwell Thermowells are Designed, Engineered and tested by Magwell as per the industry standards. Each and every threaded Thermowells are machined from Single Bar Stock and the Flanged Thermowells are manufactured with full penetration Welds. Magwell provides the most thorough Wake Frequency analysis, to ensure the Thermowells meet your most demanding applications. Provide us the complete process parameters to us, and we shall do the complete engineering of the Thermowells for you. Magwell Thermowells comes with unique serial number, which helps the customers to identify the specifications of the Thermowells at site and also for ordering the replacement parts.

Root Dimension (Q): The "Q" dimension of a thermowell is the thickest part of the shank of the thermowell that is on the hot side of the process connection or flange. The size of a thermowell Q dimension is, related to the bore size of the thermowell and the process connection size.

Bore size: The inside diameter of a Thermowell. Standard Thermowell bore sizes are .260" and .385". These sizes are intended to accept a quarter or three eights inch diameter sensor.

Immersion ("U") Length: Thermowell immersion lengths are often called the "U" length. The U length is the measurement of the Thermowell from the bottom of the process connection to the tip of the Thermowell. The U length establishes the length of the Thermowell that is actually in the process being measured.

Thermowell Lagging Extension ("T") Length: The lagging extension of a thermowell is often referred to as the thermowell's "T" length. The lagging extension or T length is located on the cold side of the process connection and is usually an extension of the hex length of the Thermowell. Typically, the T length enables the probe and thermowell to extend through insulation or walls.







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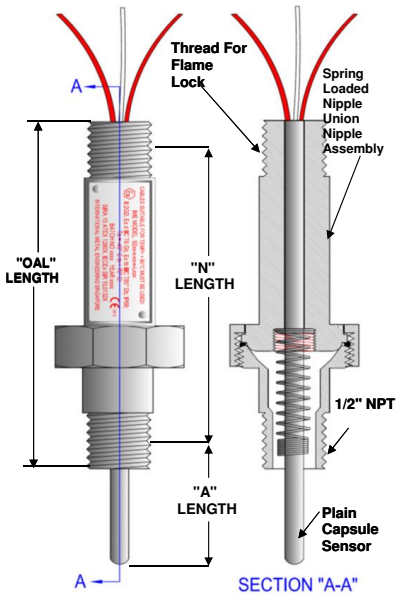
Explosion Proof Temperature Assembly TA100

magwel
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The TA100 series is an ATEX and IECEx approved spring loaded stainless steel Nipple Union Assemblies that can be used with any approved equipment or transmitter that offers at least the same level of protection as detailed at the bottom of this page. This allows the entire assembly to be ATEX and IECEx approved. The assembly has a 1/2" NPT thread at the probe end and a 1/2" NPT or M20 thread at the lead end (thread for flame lock). The probe end of the nipple union is threaded to accommodate an optional protection of the probe such as a thermowell.

The TA100 series comes with an option for customized stainless steel nameplate that can be attached on the union. We can also provide these assemblies with a sensor from any manufacturer of your choice. See below for ordering information.

- Atex/IECEx Approved
- Spring loaded Nipple-Union-Nipple
- Able to use with your own sensors and thermowells



Model	Description
TA100	General Purpose
TA101	ATEX & IECEx Approved

Code	Sensor Description
J	Type J Thermocouple, Class 1, DIN/EC 584-2-1992
K	Type K Thermocouple, Class 1, DIN/EC 584-2-1992
T	Type T Thermocouple, Class 1, DIN/EC 584-2-1992
E	Type E Thermocouple, Class 1, DIN/EC 584-2-1992
R	Type R Thermocouple, Class 1, DIN/EC 584-2-1992
S	Type S Thermocouple, Class 1, DIN/EC 584-2-1992
A	100 Ohm Platinum Resistance Sensor, Class A, DIN/EC 751-1985, 3 Wire
B	100 Ohm Platinum Resistance Sensor, Class B, DIN/EC 751-1985, 3 Wire
C	100 Ohm Platinum Resistance Sensor, Class A, DIN/EC 751-1985, 4 Wire
X	To be specified

Code	Number of Elements
1	Single Element
2	Dual Element

Code	Nipple Union Nipple Assembly (”N” Length)
2	2” General Purpose Only
3	3” General Purpose Only
4	4”
5	5”
6	6”
7	7”

Code	Thread for Frame Lock
N	1/2” NPT
M	M20 x 1.5P

Code	Sensor Diameter
G	6.4 mm
T	6.0 mm

Code	Sensor Length “A”
XXX	Specify “A” in mm

							Typical Model Number

Ex db IIC T6 Gb
Ex tb IIIC T85°C Db, IP68
Ta = -40°C to +70°C

II 2G D
Ex db IIC T6 Gb
Ex tb IIIC T85°C Db, IP68
Ta = -40°C to +70°C

Rev-05.01

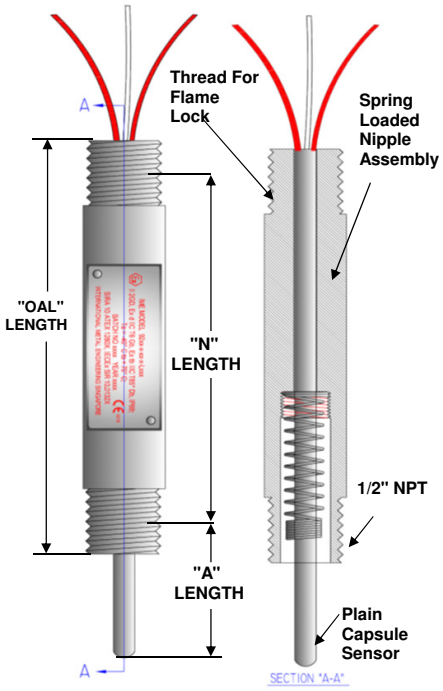
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Explosion Proof Temperature Assembly TA200

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The TA200 series are variation of the TA100 series where these are the ATEX and IECEx approved spring loaded stainless steel nipple assemblies. This assembly can also be used with any approved equipment or transmitter that offers at least the same level of protection as detailed at the bottom of the page. This allows the entire assemblies to be ATEX and IECEx approved. The assembly has a 1/2" NPT thread at the probe end and a 1/2" NPT or M20 thread at the lead end. The probe end of the nipple union is threaded to accommodate an optional protection of the probe such as a thermowell. See below for ordering information.



Model	Description
TA200	General Purpose
TA201	ATEX & IECEx Approved

Code	Sensor Description
J	Type J Thermocouple, Class 1, DIN/EC 584-2-1992
K	Type K Thermocouple, Class 1, DIN/EC 584-2-1992
T	Type T Thermocouple, Class 1, DIN/EC 584-2-1992
E	Type E Thermocouple, Class 1, DIN/EC 584-2-1992
R	Type R Thermocouple, Class 1, DIN/EC 584-2-1992
S	Type S Thermocouple, Class 1, DIN/EC 584-2-1992
A	100 Ohm Platinum Resistance Sensor, Class A, DIN/EC 751-1985, 3 Wire
B	100 Ohm Platinum Resistance Sensor, Class B, DIN/EC 751-1985, 3 Wire
C	100 Ohm Platinum Resistance Sensor, Class A, DIN/EC 751-1985, 4 Wire
X	To be specified

Code	Number of Elements
1	Single Element
2	Dual Element

Code	Nipple Union Nipple Assembly (”N” Length)
2	2” General Purpose Only
3	3” General Purpose Only
4	4”
5	5”
6	6”
7	7”

Code	Thread for Frame Lock
N	1/2” NPT
M	M20 x 1.5P

Code	Sensor Diameter
G	6.4 mm
T	6.0 mm

Code	Sensor Length “A”
XXX	Specify in mm

							Typical Model Number

Ex db IIC T6 Gb
Ex tb IIIC T85°C Db, IP68
Ta = -40°C to +70°C

II 2G D
Ex db IIC T6 Gb
Ex tb IIIC T85°C Db, IP68
Ta = -40°C to +70°C

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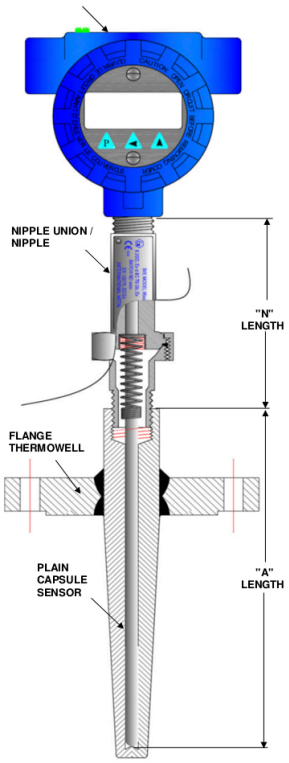
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Explosion Proof Temperature Assembly TX300

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The TX300 series are ATEX and IECEx approved temperature assemblies. These temperature assemblies encompasses our 8080KN Battery Operated Digital Temperature Indicator, 8080PR Indicating Temperature switch with Dual Relays, and our 8080HT Indicating Temperature Transmitter with Hart®. See below for ordering information.



Model	Description
TX300	General Purpose
TX301	ATEX & IECEx Approved

Code	Sensor Description
J	Type J Thermocouple, Class 1, DIN/EC 584-2-1992
K	Type K Thermocouple, Class 1, DIN/EC 584-2-1992
T	Type T Thermocouple, Class 1, DIN/EC 584-2-1992
E	Type E Thermocouple, Class 1, DIN/EC 584-2-1992
R	Type R Thermocouple, Class 1, DIN/EC 584-2-1992
S	Type S Thermocouple, Class 1, DIN/EC 584-2-1992
A	100 Ohm Platinum Resistance Sensor, Class A, DIN/EC 751-1985, 3 Wire
B	100 Ohm Platinum Resistance Sensor, Class B, DIN/EC 751-1985, 3 Wire
C	100 Ohm Platinum Resistance Sensor, Class A, DIN/EC 751-1985, 4 Wire
X	To be specified

Code	Number of Elements
1	Single Element
2	Dual Element

Code	Nipple Union Nipple Assembly (”N” Length)
2	2” General Purpose Only
3	3” General Purpose Only
4	4”
5	5”
6	6”
7	7”

Code	Transmitter/Indicator Option
8080KN	Digital Temperature Indicator
8080PR	Indicating Temperature Switch with Dual Relays
8080HT	Indicating Temperature Transmitter with Hart
XXXX	Any Other make

Code	Enclosure
A	Die cast Aluminum, Epoxy Painted
S	SS 316, Electro Polished

Code	Sensor Conduit Entry
34	3/4” NPT
12	1/2” NPT
20	M20X1.5P
25	1/2” BSP

Code	Nipple Union
N	Nipple Only
U	Nipple Union Nipple Assembly

Code	Sensor Diameter
G	6.4 mm
T	6.0 mm

Code	Sensor Length

										Typical Model Number

Rev-05.01

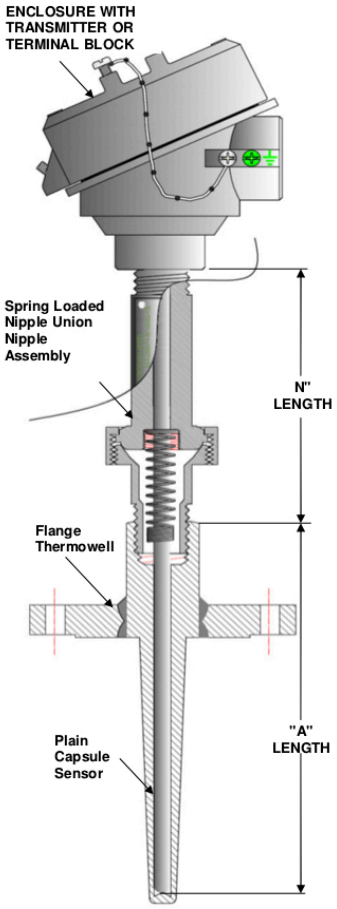
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Explosion Proof Temperature Assembly TX400

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The TX400 series ATEX and IECEx approved temperature assemblies incorporate a Thermocouple Head and a head mounted (hockey puck) temperature transmitter or a 6 post ceramic block.The sensor can be from any manufacturer and may include any thermowell (flanged or threaded). The nipple union assembly is then fitted to Magwell Model 1010 Thermocouple Head (Aluminum or SS316). Any model head mounted (hockey puck) temperature transmitter that has less than 3 watts power dissipation or a 6 post terminal block is mounted in the Thermocouple Head to complete the approved temperature assembly. See below for ordering information.



Model	Description
TX300	General Purpose
TX301	ATEX & IECEx Approved

Code	Sensor Description
J	Type J Thermocouple, Class 1, DIN/EC 584-2-1992
K	Type K Thermocouple, Class 1, DIN/EC 584-2-1992
T	Type T Thermocouple, Class 1, DIN/EC 584-2-1992
E	Type E Thermocouple, Class 1, DIN/EC 584-2-1992
R	Type R Thermocouple, Class 1, DIN/EC 584-2-1992
S	Type S Thermocouple, Class 1, DIN/EC 584-2-1992
A	100 Ohm Platinum Resistance Sensor, Class A, DIN/EC 751-1985, 3 Wire
B	100 Ohm Platinum Resistance Sensor, Class B, DIN/EC 751-1985, 3 Wire
C	100 Ohm Platinum Resistance Sensor, Class A, DIN/EC 751-1985, 4 Wire
X	To be specified

Code	Number of Elements
1	Single Element
2	Dual Element

Code	Nipple Union Nipple Assembly ("N" Length)
2	2" General Purpose Only
3	3" General Purpose Only
4	4"
5	5"
6	6"
7	7"

Code	Transmitter/Indicator Option
8080KN	Digital Temperature Indicator
8080PR	Indicating Temperature Switch with Dual Relays
8080HT	Indicating Temperature Transmitter with Hart
XXXX	Any Other make

Code	Enclosure
A	Die cast Aluminum, Epoxy Painted
S	SS 316, Electro Polished

Code	Sensor Conduit Entry
34	3/4" NPT
12	1/2" NPT
20	M20X1.5P
25	1/2" BSP
34	3/4" BSP

							Typical Model Number

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Magnetic Level Gauges ~ AUTOMAG

AUTOMAG series Magnetic Level Indicators are highly reliable level measuring instruments for continuous process level indication & control of levels. The design relies on the principle of buoyancy to display liquid level or interface of liquids. MLI proves to be highly reliable and long lasting when compared to conventional glass tube designs as it can withstand high pressure without leakage or breakage problems.



Standard Features

- Extruded outlet
- Wide Flapper Indicators as Standard - STELLAR Indicator
- PMI certificates shall be provided free for all orders
- CAD drawings free for all tags with order
- Industry leading 10 Years warranty on all MLI, against manufacturing defects
- Hermetically sealed indicators certified to IP-68 is standard
- Float Failure Indicator is Standard
- Ultrasonic testing on all welds
- Level indication viewable up to 150 feet away
- Ideal for high-temperature, high-pressure and corrosive applications
- Manufactured to meet ASME B31.1/B31.3
- Magnetostrictive and Radar Transmitter options for non-invasive and/or Redundant level control
- 360° magnetic coupling
- Minimum sensitivity to density variation
- Optional adjustable alarm switches
- Safe, environment friendly and trouble-free design
- NACE Conformity
- Temperature Range : Temperatures upto 842°F (450°C)
- Pressure Range : Upto 295 Bar (300 kg/cm2 Pressure)
- Minimum Specific Gravity : 0.5
- Float Materials : SS316, Titanium, Hastelloy, Monel

Magwell Vertical Level Switches



Magwell Model MS-VF Series are Vertically Mounted Magnetic Float Level Switches designed for Simplicity, Accuracy, Repeatability, Reliability and Safety.

Standard Features

- Upto 4 SPDT switches per unit (more available on request)
- Minimum Specific Gravity of 0.7
- Multiple Floats
- Variety of process connections
- Vibration resistant
- Operating Temperature up to 302 °F
- Operating Pressure up to 40 Bar
- 316/316L Standard, other materials on request

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Magwell Reflex Level Gauges ~ Model MGRF



Reflex level gauges are commonly used for level detection within a specific vessel, and the primary principle is based on the difference in refractive indices of vapor and liquid.

Reflex gauges, also referred to as prismatic level gauges, offer a well-defined image of water levels. This reduces risks of distortions or reading areas. Because of this, a reflex level gauge can be installed in a tilt-view or vertical position to produce even greater accuracy in readings along with a much better degree of reliability. As imagined, this is highly beneficial for many industries.

Liquid Chamber	: Carbon steel, SS304, SS316, Monel
Cover plate	: Carbon steel, SS304, SS316, Monel
Cushion	: CAF, PTFE
Gasket	: CAF, PTFE, Grafoil
Fastners	: SS, ASTM A 193 Gr B7
Scale	: Aluminum and SS engraved in mm
Glass	: Klinger/Maxos applicable till 320 deg cent as per DIN 7080/7081, BS 3463, JIS B 8211, Toughened Borosilicate glass
Borosilicate glass	: Upto 400°C
Toughened glass	: Upto 150°C

Magwell Tubular Level Gauges ~ Model MGTL



Magwell Tubular Level Gauges are designed to view liquid levels using clear or red line Borosilicate (Pyrex) tubing to view liquid levels.

All valves use a stuffing box configuration to seal the glass tube, and have a ball check shutoff to prevent loss of vessel contents in case of glass failure.

Magwell Tubular Level Gauges is an economic solution, visualizing fluid levels in low temperature and pressure environments.

Specifications

Range	: 500 to 2500mm
Gauge Glass	: Tempered Borosilicate
Wetted Parts	: SS 316
Max. Temp	: 130°C
Max. Pressure	: 5 Kg/cm2
Options	: Needle Valve
Scale	: Aluminum
Process Connection	: Threaded or Flanged

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Magwell 2 Valve Manifolds Model M2VM

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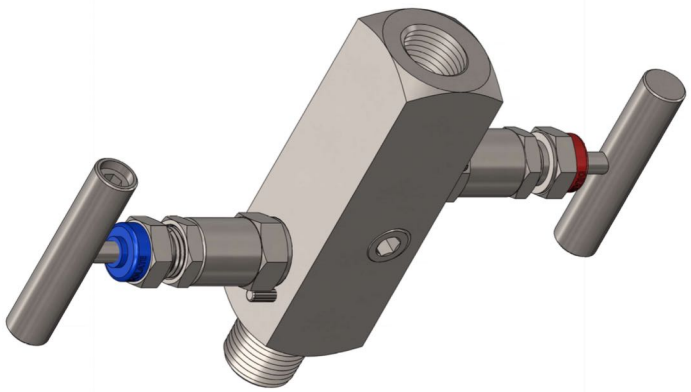
2 Valve Manifold has 3 ports and 2 valves. One valve is a blocking valve and the other is a bleed valve. The gauge attaches to one port, the block valve isolates (shuts off) the entire 'block' from the process and the bleed valve vents the gauge to the vent port, for testing or calibration.

Magwell 2 valve manifolds are designed for connecting system impulse line with Gauges, Switches or transmitters. These manifold consist of two valve configuration which allows for easy isolation, calibration, block and bleed for gauges, pressure switches and transmitters.

These manifolds can withstand high pressures and temperatures. The manifolds are rated for pressures as high as 6000 PSI at 200°F or 4000 PSI at 500°F with PTFE Packing. For a Higher Temperatures Grafoil Packing is used.

Standard Features

- SS 316L Construction
- High Over Pressure for Safety
- Reinforced gland body protection
- Non-rotating provides bubble tight shut-off
- Material Traceability Reports available per EN 10204 3.1



Applications

- Liquid & Gaseous Medium
- Corrosive Environments
- Offshore Oil Rigs & Platforms
- Chemical & Petrochemical Plants
- Power & Utility
- Water & Waste Water Treatment Facilities
- Other Critical Process Industries

Specifications

- Pressure : 6,000 psi (414 Bar), 10,000 psi (690 Bar)
- Process Connection : 1/4”, 1/2” or 3/4” or Flanges to attach to instruments.
- Connections : NPT (ANSI / ASME B1.20.1), BSP or Cylindrical GAS (DIN 259 or ISO 228), Flanged.
- Materials : 316 / 316L Stainless Steel, Duplex, Super Duplex, Hastelloy, Monel, etc.
- Packing : GRAFOIL or PTFE. Upon request, it can be supplied in other materials.
- Closure : Metal-metal.
- Customize : If you need other connections, materials, packing or other modifications, we can tailor it to you.

S. No	Description	Model
1	2 Valve Manifold - Pipe to Flange Type	M2VM-PF
2	2 Valve Manifold - Pipe to Pipe Type	M2VM-PP
3	2 Valve Manifold - Pipe to Pipe Type, with Base Vent	M2VM-PPBV
4	2 Valve Manifold - Remote Mount Type	M2VM-RM

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Magwell 3 Valve Manifolds Model M3VM

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3 Valve Manifold has two Shut-off Valves and an Equalizing Valve in a single body. 3 ports and 2 valves. The manifold features a valve body manufactured from extruded solid bar, stems and bonnets pinned for safety. Standard mounting holes are provided for bracket support. This is mainly used for Isolation, testing or calibration.

Magwell 3 valve manifolds allows for easy isolation, calibration, block and bleed for DP gauges, pressure switches and transmitters.

These manifolds can withstand high pressures and temperatures. The manifolds are rated for pressures as high as 6000 PSI at 200°F or 4000 PSI at 500°F with PTFE Packing. For a Higher Temperatures Grafoil Packing is used.

Standard Features

- SS 316L Construction
- High Over Pressure for Safety
- Reinforced gland body protection
- Non-rotating provides bubble tight shut-off
- Material Traceability Reports available per EN 10204 3.1



Applications

- Liquid & Gaseous Medium
- Corrosive Environments
- Offshore Oil Rigs & Platforms
- Chemical & Petrochemical Plants
- Power & Utility
- Water & Waste Water Treatment Facilities
- Other Critical Process Industries

Specifications

- Pressure : 6,000 psi (414 Bar), 10,000 psi (690 Bar)
- Process Connection : 1/4”, 1/2” or 3/4” or Flanges to attach to instruments.
- Connections : NPT (ANSI / ASME B1.20.1), BSP or Cylindrical GAS (DIN 259 or ISO 228), Flanged.
- Materials : 316 / 316L Stainless Steel, Duplex, Super Duplex, Hastelloy, Monel, etc.
- Packing : GRAFOIL or PTFE. Upon request, it can be supplied in other materials.
- Closure : Metal-metal.
- Customize : If you need other connections, materials, packing or other modifications, we can tailor it to you.

S. No	Description	Model
1	3 Valve Manifold - Direct Mount Type	M3VM-DM
2	3 Valve Manifold - Flange to Flange Type	M3VM-FF
3	3 Valve Manifold - Pipe to Flange Type	M3VM-PF
4	3 Valve Manifold - Pipe tp Pipe Type	M3VM-PP

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Magwell 5 Valve Manifolds Model M5VM

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Magwell 5 Way Manifold Valve is for in-place transmitter calibration. It has 2 block valves, 2 equalizers, and 1 vent. 5 Valve Direct Mount Manifold Valve is cheaper and easy to install. It has integrated valves which also provide hard pipe. The 2 isolating valves allow easy removal of the instrument for maintenance and servicing. While the 3 valves on the top of 5 Valve Manifold Valve assist in accurate field calibration. It is important to note that the equalizing and block valves in the 5 Valve Manifold Valve are not opened simultaneously.

Magwell 5 valve manifolds are designed for connecting system impulse line with Gauges, Switches or transmitters. These manifolds allows for easy isolation, calibration, block and bleed for Differential Pressure transmitters.

These manifolds can withstand high pressures and temperatures. The manifolds are rated for pressures as high as 6000 PSI at 200°F or 4000 PSI at 500°F with PTFE Packing. For a Higher Temperatures Grafoil Packing is used.

Standard Features

- SS 316L Construction
- High Over Pressure for Safety
- Reinforced gland body protection
- Non-rotating provides bubble tight shut-off
- Material Traceability Reports available per EN 10204 3.1



Applications

- Liquid & Gaseous Medium
- Corrosive Environments
- Offshore Oil Rigs & Platforms
- Chemical & Petrochemical Plants
- Power & Utility
- Water & Waste Water Treatment Facilities
- Other Critical Process Industries

Specifications

- Pressure : 6,000 psi (414 Bar), 10,000 psi (690 Bar)
- Process Connection : 1/4”, 1/2” or 3/4” or Flanges to attach to instruments.
- Connections : NPT (ANSI / ASME B1.20.1), BSP or Cylindrical GAS (DIN 259 or ISO 228), Flanged.
- Materials : 316 / 316L Stainless Steel, Duplex, Super Duplex, Hastelloy, Monel, etc.
- Packing : GRAFOIL or PTFE. Upon request, it can be supplied in other materials.
- Closure : Metal-metal.
- Customize : If you need other connections, materials, packing or other modifications, we can tailor it to you.

S. No	Description	Model
1	5 Valve Manifold - Direct Mount Type	M5VM-DM
2	5 Valve Manifold - Pipe to Flange Mount Type	M5VM-PF
3	2 Valve Manifold - Pipe to Pipe Type	M5VM-PP

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Type	**Gauge Cock**	**Gauge Saver**	**Gauge Snubber**
Pressure Rating	100 bar	400 bar	Diaphragm Type DP Gauge
Process Connection	1/4”, 3/8" & 1/2" BSP / NPT	1/4”, 3/8" & 1/2" BSP / NPT	1/4”, 3/8" & 1/2" BSP / NPT
Wetted Parts	SS 316L	SS 316L, Monel, Hastelloy	SS 316L, Monel, Hastelloy
Working Temperature	Unto 180°C	Upto 120°C	Unto 120°C
Thread	NPT, BSP	NPT, BSP	NPT, BSP

			
	Gauge Siphon	**Gauge Valve**	**Needle Valves**
Type	Coil Type, Pig Tail, U type and Straight Type	Standard Type	Standard Type
Pressure Ratings	Max 280 bar	400 bar, 700 bar Optional	400 bar, 700 bar Optional
Process Connection	1/4", 3/8" & 1/2" BSP / NPT	Micro pointer Adjustment, Shatter Proof Safety Glass	Micro pointer Adjustment, Shatter Proof Safety Glass
Wetted Parts	SS 316L	SS 316, SS 316L, Monel Hastelloy, Inconel	SS 316, SS 316L, Monel Hastelloy, Inconel
Working Temperature	Up to 400°C	232°c	232°C
Thread	NPT, BSP	NPT, BSP	NPT, BSP

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Restriction Orifice Plates

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Orifice Plate is the most common Flow Element due to its Simplicity, ease of Installation and maintenance. Restriction Orifice uses the intrinsic high pressure loss characteristic to reduce the flowing pressure or to regulate fluid flow. Multistage restriction orifices are used to achieve high pressure drops with acceptable noise levels. These orifices are installed in a pipe section and supplied as a spool piece suitable for flange mounting or for welding directly to piping.

Standard Features

- Proven Technology
- Prevent Critical Flow or Cavitation Issues
- Reduce Site Restrictions and Noise Levels



Applications

- Pressure Vessels
- Controlled Pressure Restriction
- Blow-Down Service
- Hydrocarbon, Gas & Liquid media
- Pressure Vessels
- Other Critical Process Industries

Specification

Sizing :
In accordance with ISO 5167, ASME, AGA3 standards using “Flow Consultant” software by R.W. Miller & Associates

Materials :
1. Orifice Plates 304 &316 SS standard. Specials Duplex & Super Duplex SS, Hastelloy, Stellite faced Stainless steel, Monel and Titanium. Mill Test Certificates can be provided on request.
2. Flanges Carbon steel & SS Standard. Specials DSS, SDSS & Monel. Others on request.

Plate Size :
Available for line sizes from 25 mm to 1250 mm NB.

Thickness :
Standard thickness of 3mm & 6 mm. Restriction orifices are offered in various thicknesses according to calculation based on line size, pressure drop and flowing temperature.

Edges :
Square, Sharp and free from burrs so that when viewed with naked eye no light is reflected by the corners. Plates without beveled edge are available for bi-directional flow measurement or for restriction applications at no additional charge.

Finish :
Directionally polished, uniform smooth finish standard. Optional differential finish for gasket area 8 microns and upstream flow facing area 3 to 3.6 microns.

Markings :
All plates are marked with the line size, bore size, material of plate, customer's Tag Number, Flange Class and Face type

Vent or Drain Holes :
Vent or drain holes are an option.

Mounting :
Orifice assemblies are supplied with forged Carbon steel or Stainless steel flanges. Alloy steel flanges are supplied where required. Carrier Rings, RTJ holders and Meter runs with or without flanges are also available.

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Magwell Averaging Pitot Tubes - MAP

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Magwell's MAP is a Multi-port Averaging Pitot Tube, which produces a differential pressure which has a square root relationship with the flow rate. The MAP measures the difference between the flowing pressure (Impact Head) and the static pressure (Static Head). Based on the pipe or duct size the MAP is designed and built so that strategically placed sensing ports sample the Impact and Static pressures produced by the APT's obstruction of the flow stream profile.

Since the flow element spans the complete flow profile in the pipe and the multiple sensing ports continually average the flow profile resulting in differential pressure that represents the mean flow rate across the pipe line. The impact pressures sensed by upstream ports are averaged in an isolated plenum chamber, while the static pressure at the downstream port is sensed in a second isolated chamber.

The MAP enables accurate measurement of flow rate at a very low permanent pressure loss, typically less than 10% of the differential pressure.

Compared to conventional primary flow elements, the APT offers excellent advantages such as

- Lower operating costs. Maximum energy savings
- Lower material cost for large line sizes
- Reduced installation time & cost

APT can be designed & manufactured suitable for

- In line integral sensor for small diameter pipes: sizes up to 3”
- Direction Insertion Type in to the pipe: Screwed or Flanged process connection
- Retraction Type (Hot Tap) insertion and removal without the need to shut down the process: Screwed or Flanged process connection

All conventional secondary instruments like DP Indicators and DP Transmitters can be used to measure the differential pressure produced to monitor and control flow.

Standard Features

- Measurement of Liquids, Gases, or Steam. (Not recommended for dirty, sticky fluids)
- Low pressure loss
- Easy, Cost-efficient Installation and Operation.

Applications

- Flow Elements - Circular profiled
- Type: In line, Insertion and Hot Tap versions
- Size: 1/2”, 1”, 2 3/8” nominal dia.
- Material: 316 SS standard. Others on request
- Line size: 1/2” to 72” standard. Larger sizes optional
- Process connections: Screwed, flanged
- Support: Single or Double
- Instrument Connections: 1/4" / 1/2" FNPT
- Accuracy: Up to +/- 1.0% of Actual Flow,
- Repeatability: +/- 0.1%.
- Instrument Valves (Needle): CS or SS
- Direct Transmitter Mounting: Available on request



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	MDS10	**MDS11**	**MDS20**	**MDS-FM**
Type	Direct Coupled Diaphragm Seals	Slip n ring Coupled Seals	Welded Diaphragm Seals	Flush Type Seals
Range	-1 to 70 Bar	-1 to 70 bar	-1 to 100 bar	4 to 600 bar
Diaphragm	SS 316L, Monel, Hastelloy C, Inconel	SS 316L, Monel, Hastelloy C, Inconel	SS 316L, Monel, Hastelloy C, Inconel	SS 316L
Bottom Chamber	SS 316L, Monel, Hastelloy C, Inconel	SS 316L, Monel, Hastelloy C, Inconel	SS 316L, Monel, Hastelloy C, Inconel	SS 316L
Top Chamber	SS 316L	SS 316L	SS 316L	SS 316L
Diaphragm Materials	Stainless Steel, Monel, Inconel & Hastelloy C	Stainless Steel, Monel, Inconel & Hastelloy C	Stainless Steel, Monel, Inconel & Hastelloy C	Stainless Steel, Monel, Inconel & Hastelloy C
Process Connection	1/2" NPT (M) 1/2" BSP (M 3/4” NPT (M)	1/2" NPT (M) 1/2" BSP (M 3/4” NPT (M)	1/2" NPT (M) 1/2" BSP (M) 3/4” NPT (M)	1/2" NPT (M) 1/2" BSP (M) 3/4” NPT (M)
Capillary	SS 316L	SS 316L	SS 316L	SS 316L
Armour	SS 316L, SS 316L with PVC Sheath	SS 316L, SS 316L with PVC Sheath	SS 316L, SS 316L with PVC Sheath	SS 316L, SS 316L with PVC Sheath

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	MDS31	**MDS32**	**MDS33**	**MDS34**
Type	I-section Type Direct Coupled Diaphragm Seals	Flush Flanged Seals	Flanged Large Volume Diaphragm Seals	Flush Type Extended Neck Seals
Range	-1 to 70 Bar	-1 to 250 bar	-1 to 250 bar	-1 to 250 bar
Diaphragm	SS 316L, Monel, Hastelloy C, Inconel	SS 316L, Monel, Hastelloy C, Inconel	SS 316L, Monel, Hastelloy C, Inconel	SS 316L
Bottom Chamber	SS 316L, Monel, Hastelloy C	SS 316L, Monel, Hastelloy C	SS 316L, Monel, Hastelloy C	SS 316L
Top Chamber	SS 316L	SS 316L	SS 316L	SS 316L
Diaphragm Materials	Stainless Steel, Monel, Inconel & Hastelloy C	Stainless Steel, Monel, Inconel & Hastelloy C	Stainless Steel, Monel, Inconel & Hastelloy C	Stainless Steel, Monel, Inconel & Hastelloy C
Process Connection	1/2” to1 1/2" Flange to ANSI B16.5	1/2” to 4” Flange to ANSI B16.5	1/2” to 4” Flange to ANSI B16.5	1/2” to 4” Flange to ANSI B16.5
Capillary	SS 316L	SS 316L	SS 316L	SS 316L
Armour	SS 316L, SS 316L with PVC Sheath	SS 316L, SS 316L with PVC Sheath	SS 316L, SS 316L with PVC Sheath	SS 316L, SS 316L with PVC Sheath
Special Option	PTFE Lining	PTFE Lining	PTFE Lining	PTFE Lining

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Magwell LLC
537 Cajundome Boulevard, Suite 111
Lafayette, LA 70506, USA
(888) 624-9355

info@magwellus.com
www.magwellus.com

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