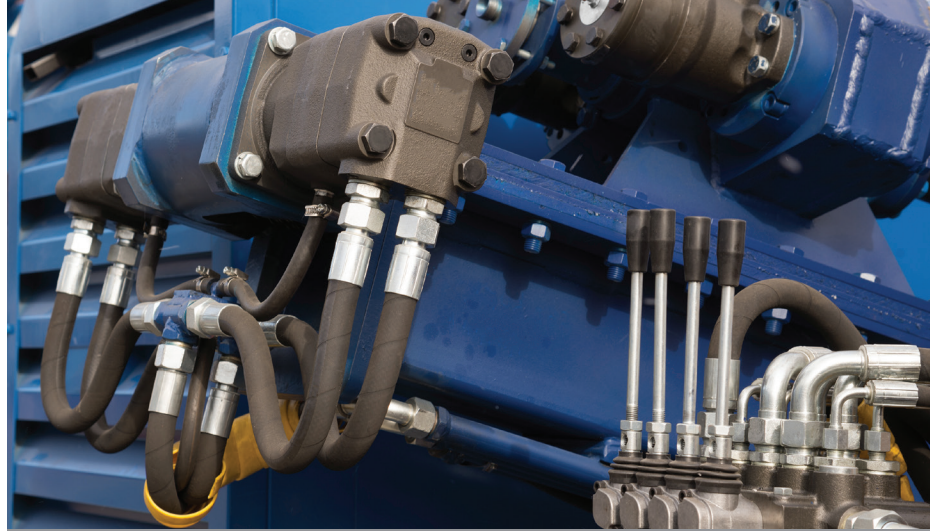


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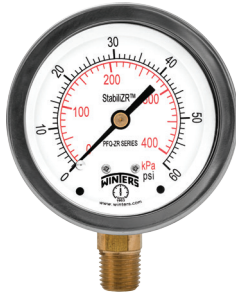
WINTERS INSTRUMENTS
MANUFACTURER OF INDUSTRIAL INSTRUMENTATION



PPF-ZR Premium Stainless Steel StabilizR® Gauge

PPF-ZR utilizes a precision designed dampening mechanism to minimize the effects of pulsation and vibration. The gauge is suited for applications where corrosiveness and pulsation are a concern.

Dial Size	2.5" (63mm), 4" (100mm) or 6" (150mm)
Case	304 SS (dry)
Accuracy	2.5": $\pm 1.5\%$ of full scale, 4" and 6": $\pm 1\%$ ANSI/ASME Grade 1A
Range	Vac to 20,000 psi
Connection	1/4" or 1/2" NPT bottom or back
Warranty	5 years



PFQ-ZR StabilizR® Stainless Steel Gauge*

PFQ-ZR's dry StabilizR® dampening can withstand pulsation and vibration, making it an ideal choice for pumps, compressors and motors operating in harsh environments.

Dial Size	2.5" (63mm) or 4" (100mm)
Case	304 SS (dry)
Accuracy	$\pm 1.5\%$ of full scale
Range	Vac to 10,000 psi
Connection	1/4" and 1/2" NPT bottom or back
Warranty	5 years



PPF Premium Stainless Steel Liquid Filled Gauge

This gauge's construction makes it resistant to vibration and pulsation. It is ideal for hydraulic presses, power packs and pneumatic equipment in industrial environments.

Dial Size	2.5" (63mm), 4" (100mm), 4.5" (115mm) or 6" (150mm), panel mount
Case	304 SS
Accuracy	2.5": $\pm 1.5\%$, 4" to 6": $\pm 1\%$ ANSI/ASME Grade 1A
Range	Vac to 40,000 psi
Connection	1/4" or 1/2" NPT - bottom, centre and lower back, high pressure and 9/16"
Warranty	5 years



PFQ Stainless Steel Liquid Filled Gauge*

The PFQ Series gauge is a durable stainless steel gauge that can withstand pulsation and vibration, making it an ideal choice for pumps, compressors and motors operating in harsh environments.

Dial Size	1.5" (40mm), 2" (50mm), 2.5" (63mm) or 4" (100mm)
Case	304 SS
Accuracy	1.5" and 2": $\pm 2.5\%$ of full scale, 2.5" and 4": $\pm 1.5\%$ of full scale
Range	Vac to 15,000 psi
Connection	1/8", 1/4" or 1/2" NPT bottom or back or 7/16"-20 SAE bottom
Warranty	5 years



PBC Forged Brass Case Gauge*

Featuring an easy-to-read dial and one piece forged brass case, the PBC was designed for severe service high vibration industrial and hydraulic systems.

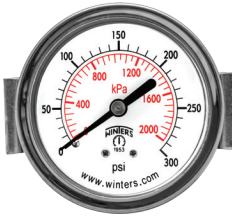
Dial Size	2.5" (63mm) or 4" (100mm)
Case	Forged brass
Accuracy	2.5": $\pm 1.5\%$ of full scale, 4": $\pm 1\%$ ANSI/ASME Grade 1A
Range	Vac to 10,000 psi
Connection	1/4" or 1/2" NPT bottom or back
Warranty	5 years



PEM Economy Gauge*

PEM is an economical all purpose gauge with a black steel case. It is ideal for small pumps and compressors and OEM applications.

Dial Size	1.5" (40mm), 2" (50mm), 2.5" (63mm) or 4" (100mm)
Case	Steel painted black (plastic available)
Accuracy	±3-2-3% ANSI/ASME Grade B
Range	Vac to 5,000 psi
Connection	1/8" NPT or 1/4" NPT bottom or back
Warranty	5 years



PEU Economy Panel Mounted Gauge*

The PEU comes standard with a stud-style U-Clamp. It is designed for measuring gasses, air, water or oils in applications requiring a panel mounted gauge.

Dial Size	1.5" (40mm), 2" (50mm) or 2.5" (63mm)
Case	Steel, painted black
Accuracy	±3-2-3% ANSI/ASME Grade B
Range	Vac to 300 psi
Connection	1/8" NPT or 1/4" NPT back
Warranty	5 years



PFH Hydraulic Stainless Steel Liquid Filled Pressure Gauge*

PFH's robust construction makes it resistant to vibration and pulsation. It is ideal for hydraulic presses, power packs and pneumatic equipment in industrial environments.

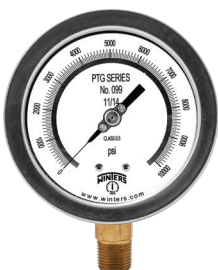
Dial Size	2.5" (63mm) or 4" (100mm)
Case	304 SS
Accuracy	±1.5% of full scale value
Range	Vac to 15,000 psi
Connection	1/4" NPT or 1/2" NPT bottom or back
Warranty	5 years



PTS Tube Stub Gauge

The PTS is designed to be used with most standard double ferrule tube fittings such as Parker A-Lok®. The ability to orient the gauge 360° during installation makes it ideal where gauge alignment is critical.

Dial Size	2.5" (63mm)
Case	304 SS
Accuracy	±1.5% of full scale
Range	Vac to 5,000 psi
Connection	1/4" Tube Stub bottom or back
Warranty	5 years



PTG Test Gauge*

The PTG is a highly accurate gauge that comes standard with a calibration certificate traceable to NIST Standards. It is used in laboratories and testing facilities.

Dial Size	4" (100mm) or 6" (150mm)
Case	304 SS
Accuracy	4": ±0.5% ANSI/ASME Grade 2A, 6": ±0.25% ANSI/ASME Grade 3A
Range	Vac to 10,000 psi
Connection	1/4" NPT or 1/2" NPT bottom
Warranty	5 years



DPG Digital Pressure Gauge

DPG is a simple to use digital pressure gauge with stainless steel wetted parts including a 316L welded diaphragm. It is ideal for test measurement and general purpose commercial and industrial applications.

Dial Size	2.5" (63mm)
Case	ABS (IP60) with a protective silicone rubber boot.
Accuracy	±1% (±0.5% optional)
Range	Vac to 15,000 psi
Connection	1/4" NPT bottom
Warranty	5 years



LE3 General Purpose Transmitter

LE3 is a compact general industry stainless steel transmitter suitable for outdoor use. Its wide variety of mechanical and electrical connections makes it ideal for pump and compressor monitoring.

Output	2-wire 4-20 mA
Housing	304 SS
Accuracy	±0.5% FSO
Range	Vac to 5,000 psi
Sensor	Ceramic
Warranty	5 years



LMH Hydraulic Transmitter

This Hydraulic Transmitter is available in a wide range of mechanical and electrical connections. It is suitable for heavy duty processes including mobile hydraulic presses.

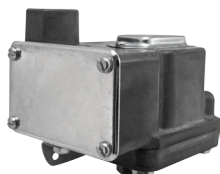
Output	2-wire 4-20 mA
Housing	304 SS
Accuracy	±0.5% FSO
Range	0 to 8,700 psi
Sensor	Stainless Steel
Warranty	5 years



2WPS General Purpose Pressure Switch

The 2WPS has a NEMA 4, IP65 enclosure rating with the option of a NEMA 4X rating. It is typically utilized for pump and compressor monitoring and general industrial applications.

Housing	Anodized aluminum
Wetted Parts	Aluminum and Buna-N (PTFE O-ring or FKM diaphragm optional)
Range	Vac to 500 psi
No. of Contacts	One, SPDT
Accuracy	±2% of the adjustable range
Warranty	5 years



4WPS Low Pressure Diaphragm Pressure Switch

4WPS has simple single or dual set point adjustment. With ±0.5% accuracy it is ideal for more sensitive industrial applications.

Housing	Anodized aluminum
Wetted Parts	304 SS process connection and 17-PH SS diaphragm
Range	"H ₂ O to 150 psi
No. of Contacts	One or two SPDT (hermetically sealed option for 1 x SPDT only)
Accuracy	±0.5% of the adjustable range
Warranty	5 years



TBM Bi-Metal Thermometer

This industrial grade thermometer uses a bi-metallic sensing element for reliable temperature readings. All models are hermetically sealed and fully moisture and water proof.

Dial Size	1" (25mm) to 6" (150mm)
Case	304 SS
Accuracy	±1% of full scale
Range	-100°F to 1,000°F (-70°C to 550°C)
Connection	1/4" or 1/2" NPT bottom, back and adjustable angle
Warranty	5 year



TMT Surface Magnet Thermometer

TMT provides an economical and accurate method for measuring temperature on flat metallic surfaces. It is ideal for electrical cabinets and hydraulic stations.

Dial Size	2" (50mm)
Case	Steel, painted black
Accuracy	±2% of full scale
Range	0°F to 750°F (-20°C to 400°C)
Connection	Magnet
Warranty	5 years



TRR Remote Reading Thermometer*

TRRs are heavy duty gas or vapour filled thermometers for remote reading installations. This product is available for immediate delivery off-the-shelf and non-standard configurations are made-to-order.

Dial Size	2.5" (63mm), 3.5" (90mm), 4" (100mm), 4.5" (115mm), 6" (150mm) or 8.5" (215mm)
Case	2.5" 316 SS, 3.5" and 4" steel painted black, others are aluminum painted black
Accuracy	Gas: ±1% of full scale value, Vapour: ±2% of full scale value
Range	-40°F to 1,000°F (-40°C to 540°C)
Connection	1/2" bulb diameter
Warranty	5 year



TBR Bi-Metal Threaded Thermowell

The TBR is standard in a "stepped construction" and available in a variety of custom configurations. Used to protect TBM thermometers from media or to allow for maintenance without shutting down a system.

Material	Brass*, 304 SS, 316 SS, other materials available upon request
Bore	.260" standard
Length	2.5" (63mm), 4" (100mm), 6" (150mm), 9" (229mm), 12" (305mm) or 15" (370mm)
Process Connect.	3/4", 1/2" or 1" standard, other thread sizes available upon request
Therm. Connect.	1/2" NPT female, other thread sizes available upon request
Warranty	5 years



TWF Flanged Threaded Thermowell

TWF is designed for use on a closed system to isolate the temperature sensor from the process media.

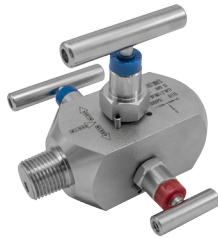
Material	304 SS or 316 SS
Bore	.260" standard
Length	4" (100mm), 6" (150mm), 9 (225mm), 12" (300mm) or 15" (370mm) stem
Process Connect.	1" (25mm), 1.5" (40mm) or 2" (50mm) flange
Therm. Connect.	1/2" NPTF
Warranty	5 years



NVA Needle Valve

NVA Needle Valves come in straight, angle body, multiport or block & bleed, hard or soft seat, carbon or stainless steel with a NACE option. They provide excellent instrument isolation and are leak tight.

Body	Carbon steel or stainless steel with or without NACE
Seat	Hard or soft seat
Max. Pressure	6,000 or 10,000 psi
Connection	1/4", 3/8", 1/2", 3/4" and 1" NPTF and NPTM connection options
Warranty	5 years



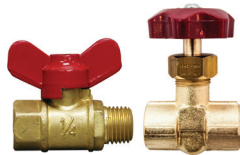
BBV Block & Bleed Valve

Block & Bleed Valves are available as single handle, two handle or double block and bleed, hard or soft seat, carbon or stainless steel with a NACE option. They are ideal for pressure instrument isolation.

Body	Carbon steel or stainless steel with or without NACE
Seat	Hard or soft seat
Max. Pressure	6,000 or 10,000 psi
Connection	1/4" and 1/2" NPTF and NPTM connection options
Warranty	5 years

SMV Mini Ball Valve and SNV Needle Valve*

Winters manufactures Mini Ball Valves and Needle Valves for isolation of pressure gauges and transmitters. Available in brass and lead-free brass.



Body	Forged brass or lead-free brass
SMV Conn.	1/4" NPTF x NPTM or NPTF x NPTF
SNV Conn.	1/4" NPTF x NPTF
Pressure	400 psi (2,758 kPa)
Temperature	-90°F to 212°F (-23°C to 100°C) process temperature
Warranty	5 years

SSN Snubber

The SSN snubber uses a sintered, porous 316 SS snubbing element to ensure its effectiveness. Available in three classifications: heavy oil, water and air.



Body	316 SS or brass*
Operating Temp.	SS: -320°F to 1,500°F (-195°C to 815°C), brass: -65°F to 650°F (-53°C to 343°C)
Max Pressure	SS: 20,000 psi, brass: 10,000 psi
Burst Pressure	SS: 60,000 psi, brass: 30,000
Connection	1/4" or 1/2" NPT
Warranty	5 years

PTK Pressure and Temperature Kit*

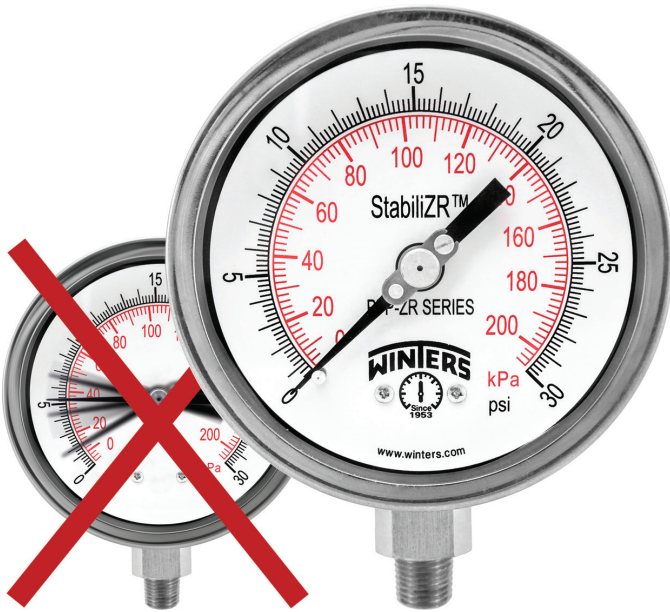
PTK comes with a pressure gauge, two thermometers and a gauge adapter in a portable carrying case. It is used at start-up or for periodic testing of pipelines or pressure vessels.



Dial Size	Gauge: 3.5" (90mm), Thermometers 1" (25mm)
Inst. Case	Gauge: Steel, painted black, Thermometers: 304 SS
Case	Black plastic with custom cut foam insert for parts
Gauge Adapt.	1.75" (45mm) x 0.125" (3mm) SS probe with 1/4" NPTF swivel fitting
Accuracy	Gauge: ±2-1-2% ANSI/ASME Grade A, Thermometers: ±1%
Warranty	5 years

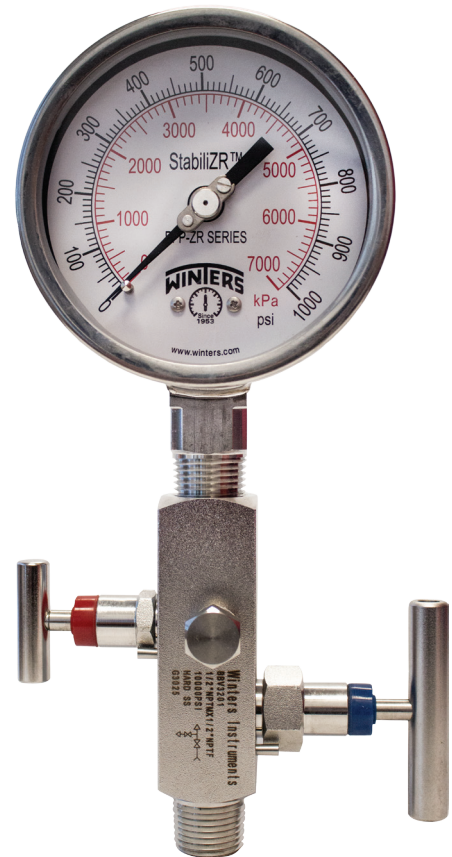
Winters' StabilizR® Solution


StabilizR® gauges are dry gauges that come with a StabilizR® dampened movement that eliminates pointer flutter caused by vibration and pulsation. This makes pressure reading much easier. No more worries of fill fluid leaking and compatibility issues with the process media. Gauges can easily be serviced without the hassle of draining and then refilling the case with fill fluid.



More Than Just Pressure Gauges and Thermometers

Winters CRN registered instrument valves allow for the isolation of instrumentation facilitating quick replacement without shutting down the process. These valves are available in carbon steel or stainless steel (NACE or non-NACE) for high pressure applications (up to 10,000 psi), brass or lead free brass for low pressure applications (up to 400 psi).



*  **WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

WINTERS INSTRUMENTS

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