



We're There.



APPLICATION SOLUTIONS

WINTERS INSTRUMENTS
MANUFACTURER OF INDUSTRIAL INSTRUMENTATION

High temperature industrial process where there is a need to isolate pressure instrument from media / concern for chemical compatibility



PPC Series Process Gauge
Phenolic case gauge with safety features
4.5" dial
316L SS socket

SCT Series Cooling Tower
316 SS body
Cools media by up to 500°F before reaching pressure instrument

D70 Series Diaphragm Seal
316 SS or other housing material
316 SS, Monel®, Hastelloy® C, Viton® diaphragm

Multi-line process requiring pressure shutoff or re-direct control for safety and ease in maintenance.



PFP Series Premium Stainless Steel Gauge
Stainless steel filled case to protect against pulsation / harmful vibration
304 SS case, 316 SS Bourdon tube

SCT Series Cooling Tower
316 SS body
Cools media by up to 500°F before reaching pressure instrument

D70 Series Diaphragm Seal
316 SS or other housing material
316 SS, Monel®, Hastelloy® C, Viton® diaphragm

Double Block and Bleed Manifold
316L SS construction, NACE compliant
Various materials and sizes available

Industrial application where there are safety concerns regarding proximity to process media (high heat, corrosive, space)



PPC Series Process Gauge
Phenolic case gauge with safety features
4.5" dial
316L SS socket (brass available)

Stainless Steel Capillary with Armour
Various lengths available to facilitate remote gauge mounting
Capillary allows media to cool before reaching pressure gauge

D44 Series Flanged Diaphragm Seal
316 SS, Tantalum, Hastelloy® C or Teflon® diaphragm
316 SS flanged seal to be secured over process connection

Viscous, Aggressive Process Media



Viscous media that may solidify or clog the pressure sensing element in the socket of the gauge



PPC Series Process Gauge

Phenolic case gauge with safety features
4.5" dial
316L SS socket

D44 Series Flanged Diaphragm Seal

316 SS, Tantalum, Hastelloy® C or Teflon® diaphragm
316 SS flanged seal to be secured over process connection

Viscous, corrosive or heavy media containing solids in flow-through applications that have a high potential for clogging.



PPC Series Process Gauge

Available dry or liquid filled or with StabiliZR™ movement
Brass or 316 SS Bourdon tube and socket

FIR Series Instrument Tees

316 SS material
Three mounting configurations to choose from

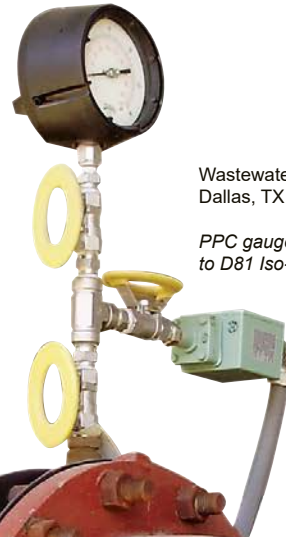
D81 Series Isolation Ring Seal

1" to 24" sizes for pipe diameters and stinger instrument connection are standard. Pictured with carbon steel centre and 316 SS end plates. Other configurations are available.

See catalogue or website for selection of pressure switches

Wastewater plant
Dallas, TX

PPC gauge mounted to D81 Iso-ring



Overpressure, Pulsation & Vibration

Applications where occasional (sustained) pressure surges that exceed safe range would damage the internals of pressure gauge



PFP Series Premium Stainless Steel Gauge

Stainless steel filled case to protect against pulsation and vibration
304 SS case, 316 SS Bourdon tube
Optional maxi-pointer to indicate highest pressure reached

SOP Series Overpressure Protector

Auto pressure shut-off when adjustable preset pressure is exceeded
10,000 psi burst pressure
316 SS body

D40 Series Diaphragm Seal

316 SS housing material
316L SS welded diaphragm

Pumps, compressors, hydraulic presses, and fluid power applications that produce damaging pulsation to the internals of pressure gauges, transmitters, and switches



PPC Series Process Gauge

Phenolic case gauge with blowout protection
4.5" dial
316L SS socket

SAS Series Adjustable Snubber

Used to restrict and slow down pressure flow
Brass or stainless steel body
Adjustable amount of restriction



PFQ Series Stainless Steel Gauge

Filled case to protect gauge internals
Brass or 316 SS Bourdon tube and socket

SSN Series Snubber

316 SS porous "snubbing" element
Brass or stainless steel housing



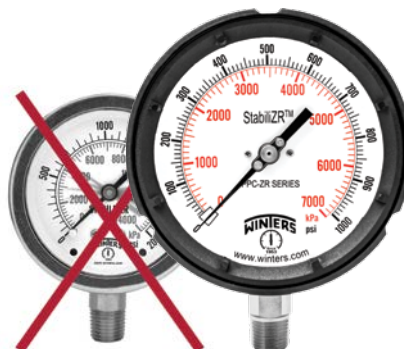
Applications that produce considerable amount of vibration, causing pointer fluttering and possible damage to the movements and gears of gauges

PFP-ZR Series StabilizR™ Gauge

Dry stainless steel case gauge to minimize process media incompatibility issues
StabilizR™ internal movement to protect gears and dampen pointer flutter

Tested as more accurate after 20,000 times cycle test and 16 hour heat test than leading competitor

Ask us how our StabilizR™ dampening mechanism design gives you the best performance



Non-corrosive applications that require pressure control up to a maximum of 400 psi



P1S Series 100 Gauge / PEM Series Economy Gauge

Various dial sizes up to 6"
Brass internals
From 3-2-3% to 1% accuracy

SMV Series Mini Ball Valve

Economical isolation valve
Forged brass body and stainless steel ball
Three configurations: lever handle, T-handle FxF, T-handle FxM

Aggressive media in refineries, petrochemical and other processing plants that must be controlled before reaching instrument



PFP Series Premium Stainless Steel Gauge

Stainless steel filled case with 304 SS ring
304 SS case, 316 SS Bourdon tube
15% - 30% overpressure limit

NVA Series Stainless Steel Needle Valve

1-piece body construction for strength, safety and corrosion resistance
Provides leak tight flow regulation
Allows slow valve opening to prevent damaging pressure surges

Precision pressure control for mild, non-corrosive process that may produce harmful pressure pulsation



P9S Series 90 Gauge

Features a dampened movement for added protection against pulsation
Removable lens for pointer re-adjustment
Suitable for compressors, filters, regulators

SNV Series Needle Valve

Forged brass construction
May be used to control pressure pulsation



Harmful Media for Thermometers

Pipe or equipment requiring a flange fitting for thermowell insertion to create a sealed system



TBM Series Bi-metal Thermometer

Versatile with fixed back and bottom, and adjustable angle connections
Stem lengths up to 12" are standard, other configurations also available
External pointer re-adjustment is standard

TWF Series Flange Thermowell

Made of 304 SS or 316 SS
1", 1.5", 2" flange sizes
Stem length up to 15"

Applications with media that can be corrosive to bi-metal stems or high velocity media that may break or damage thermometer stems



TBM Series Bi-metal Thermometer

Versatile with fixed back and bottom, and adjustable angle connections
Stem length up to 12"
External pointer re-adjustment is standard

TBR Series Thermowell

Standard configuration is stepped; straight, tapered, flanged, sanitary available
Creates sealed process system so thermometer may be removed freely



Equipment with insulation covering the process connection, producing a lag distance



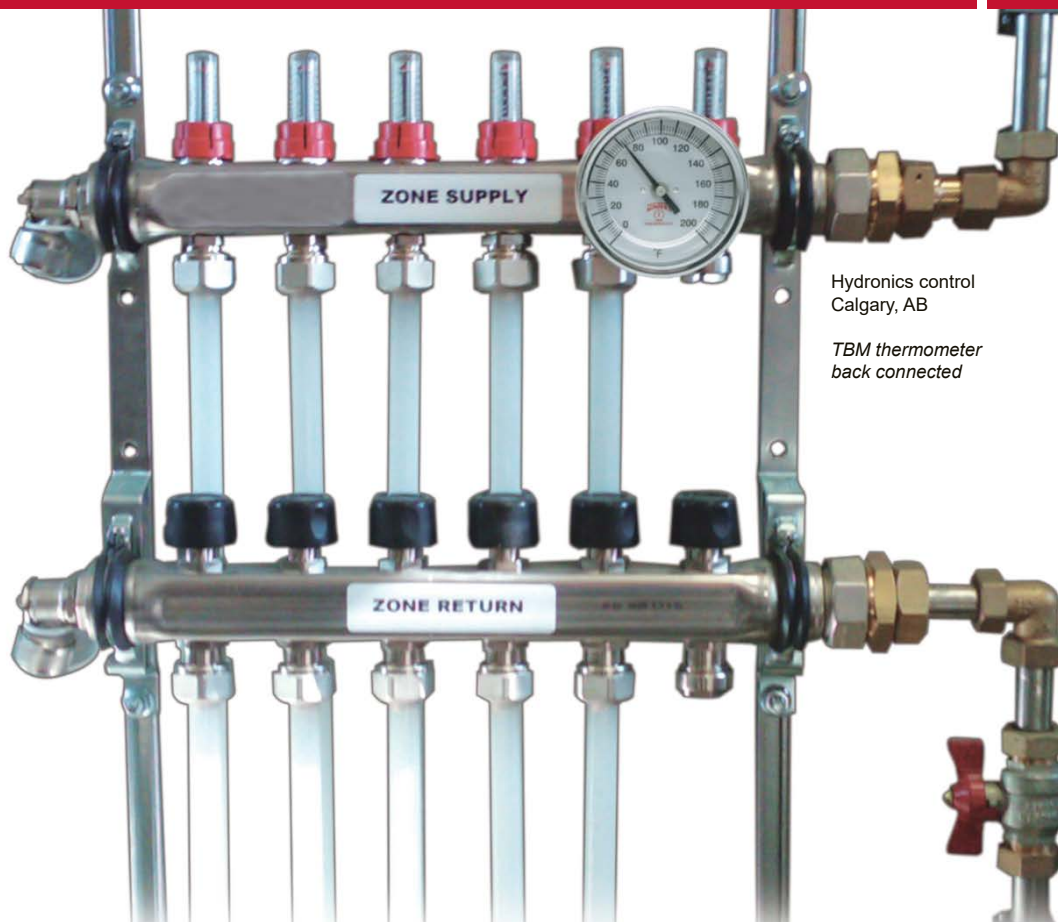
TIM Series Industrial Thermometer

9" scale with Valox or aluminum case
Stem connection angle is adjustable
360 degree rotation for scale
Comes standard with brass no-lag thermowell

TIW Series Thermowell with Lag

Use when pipe (process connection) is beneath insulation
Brass, 304 SS or 316 SS
No-lag version comes standard with TIM

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Teflon® is a registered trademark of Dupont Corporation
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Hydronics control
Calgary, AB

*TBM thermometer
back connected*

Do you have an application that requires a custom part or assembly which is different from what you see here?

Let us know! Winters manufactures instrumentation for custom orders from various industries. Most likely, we have come across your inquiry before. And if we have not, our engineers and technical sales staff will make sure we design a solution for you.

Call 1-800-WINTERS (946-8377) to connect with one of our team members.

Winters Gauge Services

- **Engineering Specification Support**
- **Accuracy Calibration & Certification**
- **Liquid Filling**
- **Diaphragm Seal Assembly**
- **Repairs**
- **Gauge Cleaning**



Gauge with custom dial
(coloured zones for quick visual
indication)



Differential pressure switch with stainless steel armoured
capillaries and flanged diaphragm seals to assist in
control of pressure drops from remote location



Gauge with SSP Series
Syphon for use on hot
steam service

WINTERS INSTRUMENTS

MANUFACTURER OF INDUSTRIAL INSTRUMENTATION



Winters Instruments is a global manufacturer of premium quality pressure and temperature instrumentation, with distribution partners in over 90 countries. Please contact us for your nearest Regional Manager.

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