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 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
**Applications**

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

**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

**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

**PFQ Series Stainless Steel Gauge**
- Filled case to protect gauge internals
- Brass or 316 SS Bourdon tube and socket

**SAS Series Adjustable Snubber**
- Used to restrict and slow down pressure flow
- Brass or stainless steel body
- Adjustable amount of restriction

**SSN Series Snubby**
- 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
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
**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”

**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

**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
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.

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