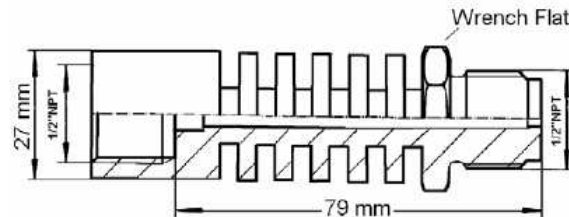




KODIAK CONTROLS

**Manufacturer's Representative and
Stocking Specialist for O.E.M.s and Distributors**

Cooling Tower



Temperature Affects Pressure Gauges:

Mechanical pressure gauges are typically designed and calibrated to be most accurate and durable in ambient conditions between 65 and 85°F, with process temperatures not exceeding 150°F. If required, gauges can be ordered - calibrated to be most accurate for specific temperature ranges (within certain limits)

Outside of the normal working conditions temperature can affect the accuracy and lifespan of gauges. Precautions should be taken to ensure that pressure gauges are not continuously exposed to temperature extremes.

Good gauge practices have always recommended pigtail siphons (a) for steam or other high temperature applications. Other optional preventative measures include capillary (b) to remote mount the gauge away from the process or cooling towers to dissipate heat from the process fluid before it enters the gauge. This can also be true for low temperature extremes such as cryogenic applications.

Other methods for protecting instruments from temperature extremes:



(a) Pigtail Siphon



(b) Capillary

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KODIAK NEEDLE VALVES



1/4\"NPT \"NVS\" Super –Mini Valves

1/4\"NPT Carbon Steel Body, Round 'Thumb Wheel' Handle
6,000 PSI Rated Soft Seat, for bubble tight shut-off
Male x Female, Female x Female or Male x Male



1/4\"NPT \"NV\" Mini Valves

Carbon Steel or Stainless Steel Body, Tee Handle
6,000 PSI Soft Seat or 10,000 PSI Hard Seat
Male x Female, Female x Female or Male x Male



1/4\"NPT 'NVL' or 1/2\"NPT 'NV' Full Size Needle Valves

Carbon Steel or Stainless Steel Body, Tee Handle
6,000 PSI Soft Seat or 10,000 PSI Hard Seat
Male x Female or Female x Female



1/4\" or 1/2\"NPT Hex Body Needle Valves

Carbon Steel or Stainless Steel Body, Tee Handle
6,000 PSI Soft Seat or 10,000 PSI Hard Seat
Male x Female or Female x Female



1/2\"NPT Multi-Port Gauge Valves

Stainless Steel Body, Tee Handle
6,000 PSI Soft Seat or 10,000 PSI Hard Seat
1/2\"NPT Male inlet x (3) 1/2\"NPT Female Outlet



1/4\" or 1/2\"NPT Block and Bleed Valves

Stainless Steel Body, Tee Handle
6,000 PSI Soft Seat or 10,000 PSI Hard Seat
1/4\"NPT or 1/2\"NPT Male inlet x Female



1/2\"NPT Long Body Valves

Stainless Steel Body, Tee Handle
6,000 PSI Soft Seat
1/2\"NPT Male x Female



1/2\"NPT Accessory Bleed Valves

Stainless Steel Body, Tee Handle
Use with Multiport Gauge valves to make block and bleed Valves
6,000 PSI or 10,000 PSI



FILTER TYPE PRESSURE SNUBBER

Pressure oscillations and other sudden pressure changes can affect the delicate mechanisms of a pressure gauge or pressure transmitter. This can result in either complete failure of the instrument or false and inaccurate readings. Pressure snubbers are designed to reduce or prevent these oscillations and fluctuations from reaching and affecting pressure instruments.

Pressure snubbers reduce pressure spikes only; a pressure snubber will not eliminate any prolonged overpressure. Spikes last for milliseconds only, over pressures lasting longer than that can damage the pressure sensor.

The pressure snubbers below are the “filter” type using a porous filter media made of sintered metal. Because the filter element is a fine mesh type, it should be used on processes that do not contain particulate or sludge that would clog the element. In the event that the snubber does get clogged, our snubbers can be disassembled for cleaning if necessary.

SPECIFICATIONS:

Connection Sizes: 1/4" or 1/2"NPT

Stainless Steel or Brass

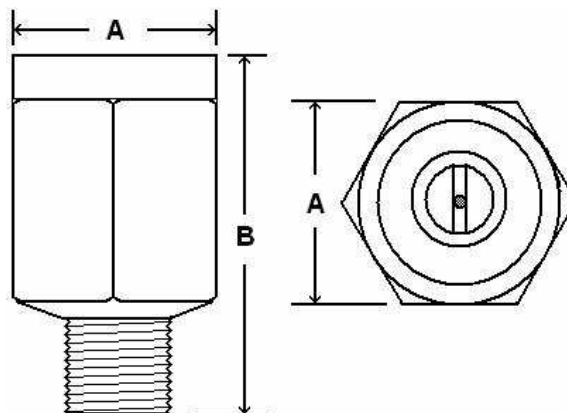
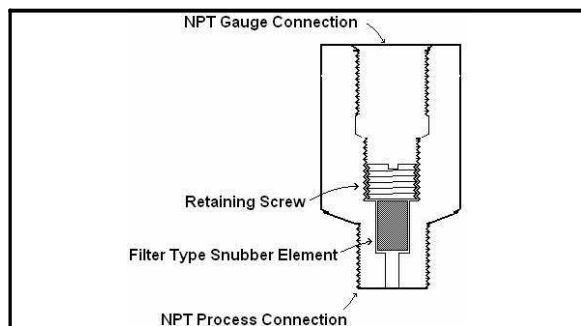
Water, Air, Oil or Gas

No Moving Parts – Nothing to break or wear out

Pressure Rating:

Brass: 3,000 PSI

Stainless Steel: 10,000 PSI



Snubber Body	Brass or 316 SS
Retaining Screw	Brass or 316 SS
Snubber Element	Brass or 316 SS
Gauge Connection	1/2" or 1/4" NPT Female
Process Connection	1/2" or 1/4" NPT Male

	A (Inches)	B (Inches)	A (MM)	B (MM)
1/4"NPT	.75"	1.38"	18.9mm	35mm
1/2"NPT	1.13"	1.73"	28.5mm	44mm

Other Instrument protection accessories:

			
Piston Type Snubber	Adjustable Snubber	Needle Valve	Pressure Limiting Valve