



**For Ray™
Pressure
Snubbers
there's only
one place
to go.**



COLONIAL INSTRUMENTS, inc.

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A Simple, Cost-Effective Solution to Damaging Pressure Surges And Shocks

Through its unique design, the RAY SNUBBER'S™ rugged piston moving within its chamber kicks out the sediment and pipe scale that clog needle valves, filters, porous metal discs and other designs.

There is a RAY SNUBBER™ for every application:

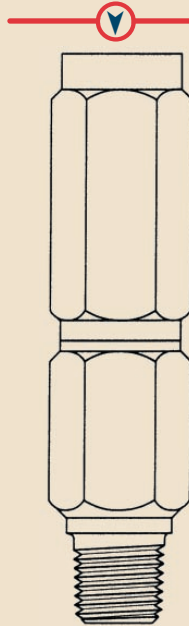
- Brass, Stainless Steel, Aluminum or Monel construction
- Pressure ratings from vacuum to 20,000 psi (up to 60,000 psi with special high pressure connections)
- Air, Water, Gases, Petrochemicals
- British taper threads or American NPT
- 104 models in stock featuring 12 piston options

To accommodate variations in viscosities, every snubber is delivered with three different-sized easily changed pistons. And because the piston is the only moving part, maintenance is minimal. No parts to be regularly cleaned or replaced.

C E N T E R J O I N T S N U B B E R

Preferred for Non-Repetitive Installation
Center Joint Allows Easy Piston Changing.

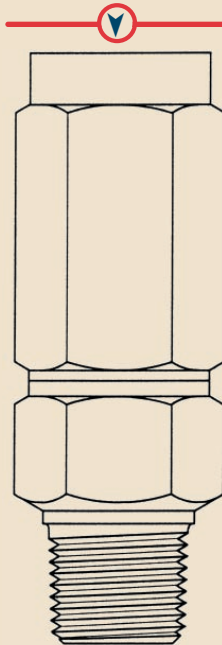
MODEL 010



| MODEL NO. | CONNECTIONS INLET | CONNECTIONS OUTLET | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------------|--------------------|---------------|----------|------|------|
| 010B | | | Brass | 3000 | 3.46 | .750 |
| 010S | 1/4 NPT | 1/4 NPT | 303 Stainless | 5000 | | |
| 010SS | | | 316 Stainless | 5000 | | |

Available in British Taper Pipe Threads: Add BPS to part number.

MODEL 050



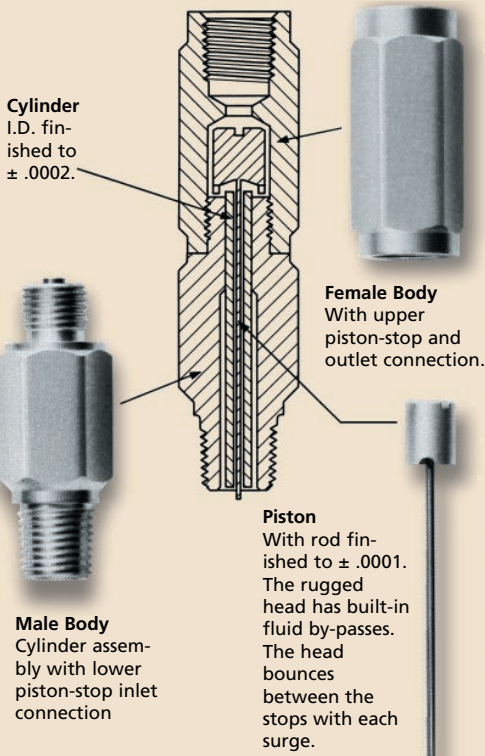
| MODEL NO. | CONNECTIONS INLET | CONNECTIONS OUTLET | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------------|--------------------|-----------|----------|------|-------|
| 050B | 3/8 NPT | 3/8 NPT | Brass | 5000 | 3.61 | 1.125 |

Available in British Taper Pipe Threads: Add BPS to part number.

MODEL 060

| MODEL NO. | CONNECTIONS INLET | CONNECTIONS OUTLET | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------------|--------------------|---------------|----------|------|-------|
| 060B | | | Brass | 5000 | 3.61 | 1.125 |
| 060S | 1/2 NPT | 1/2 NPT | 303 Stainless | 10,000 | | |
| 060SS | | | 316 Stainless | 10,000 | | |

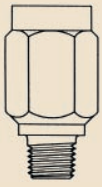
Available in British Taper Pipe Threads: Add BPS to part number.



(Shown Approximately 3/4 Size)

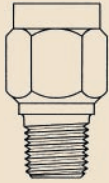
Product drawings shown at approximately 3/4 size

Ideal for OEM market. While pistons can be changed, product quality and uniformity make it unnecessary.



MODEL 047

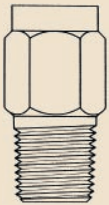
| MODEL NO. | CONNECTIONS | | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------|---------|---------------|----------|-----|------|
| | INLET | OUTLET | | | | |
| 047B | | | Brass | 3000 | 1.5 | .688 |
| 047S | 1/8 NPT | 1/8 NPT | 303 Stainless | 5000 | | |
| 047SS | | | 316 Stainless | 5000 | | |



MODEL 022

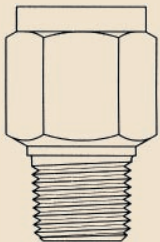
| MODEL NO. | CONNECTIONS | | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------|---------|-----------------------|----------|-----|-----|
| | INLET | OUTLET | | | | |
| 022B | | | Brass | 5000 | 1.5 | .75 |
| 022M | 1/4 NPT | 1/4 NPT | Monel (Nickel-Copper) | 5,000 | | |
| 022S | | | 303 Stainless | 15,000 | | |
| 022SS | | | 316 Stainless | 15,000 | | |

Available in British Taper Pipe Threads: Add BPS to part number.



MODEL 104

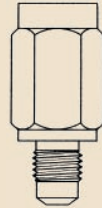
| MODEL NO. | CONNECTIONS | | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------|---------|---------------|----------|------|-----|
| | INLET | OUTLET | | | | |
| 104S | 3/8 NPT | 1/4 NPT | 303 Stainless | 10,000 | 1.69 | .75 |



MODEL 023

| MODEL NO. | CONNECTIONS | | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------|---------|-----------------------|----------|-----|-------|
| | INLET | OUTLET | | | | |
| 023B | | | Brass | 5000 | 2 | 1.125 |
| 023M | 1/2 NPT | 1/2 NPT | Nickel-Copper (Monel) | 5,000 | | |
| 023S | | | 303 Stainless | 15,000 | | |
| 023SS | | | 316 Stainless | 15,000 | | |

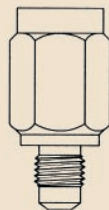
Available in British Taper Pipe Threads: Add BPS to part number.



MODEL 095

| MODEL NO. | CONNECTIONS | | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------|---------|-----------|----------|------|------|
| | INLET | OUTLET | | | | |
| 095B | 1/4 Tube | 1/8 NPT | Brass | 3000 | 1.75 | .688 |

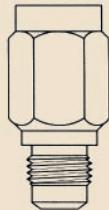
Tube angle is 37° with 7/16-20 threads.



MODEL 078

| MODEL NO. | CONNECTIONS | | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------|---------|---------------|----------|------|-----|
| | INLET | OUTLET | | | | |
| 078B | 1/4 Tube | 1/4 NPT | Brass | 3000 | 1.75 | .75 |
| 078S | | | 303 Stainless | 5000 | | |

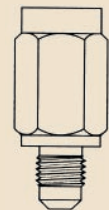
Tube angle is 37° with 7/16-20 threads.



MODEL 108

| MODEL NO. | CONNECTIONS | | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------|---------|-----------|----------|------|-----|
| | INLET | OUTLET | | | | |
| 108B | 3/8 Tube | 1/4 NPT | Brass | 3000 | 1.75 | .75 |

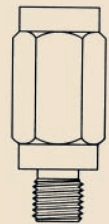
Tube angle is 37° with 9/16-18 threads.



MODEL 125

| MODEL NO. | CONNECTIONS | | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------|---------|-----------|----------|------|------|
| | INLET | OUTLET | | | | |
| 125B | 1/4 Tube | 1/8 NPT | Brass | 3000 | 1.75 | .688 |

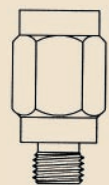
Tube angle is 45° with 7/16-20 threads.



MODEL 055

| MODEL NO. | CONNECTIONS | | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------|-------------|---------------|----------|------|------|
| | INLET | OUTLET | | | | |
| 055M | 1/4 Tube | O-Ring Seal | Monel | 6000 | 1.85 | .688 |
| 055SS | | | 316 Stainless | 6000 | | |

Inlet is to MS33514-4 & SAE J514, commonly called flareless bite type. Outlet is to MS16142. Both threads are 7/16-20. Nuts, ferrules &/or O-Rings must be ordered separately.

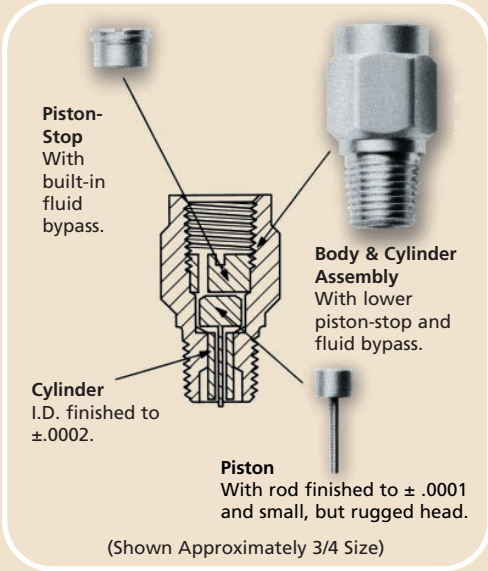


MODEL 039

| MODEL NO. | CONNECTIONS | | BODY MTRL | MAX. PSI | LN. | HEX |
|-----------|-------------|-------------|---------------|----------|-----|------|
| | INLET | OUTLET | | | | |
| 039B | O-Ring Seal | O-Ring Seal | Brass | 3000 | 1.5 | .688 |
| 039M | | | Monel | 6000 | | |
| 039SS | 1/4 Tube | 1/4 Tube | 316 Stainless | 6000 | | |

Outlet is to MS16142. Both threads are 7/16-20. O-Rings are available.

To accommodate variations in viscosities, every snubber is delivered with three different-sized easily changed pistons.



RAY™ POROUS METAL PRESSURE SNUBBERS

A Simple, Cost-Effective Solution to Protecting Valuable Control Instruments...

- Stop shocks and pulsations that damage pressure instruments
- Cut cost of maintenance, calibration, and repair
- Assure accuracy of instruments and readings
- Prevent false operation of control equipment
- Increase life of instruments

AVAILABLE IN THE FOLLOWING POROSITIES AND END CONNECTIONS:

| Body Type | Material | Maximum PSI | Light Oil & Water "E" Porosity | Air, Steam & Gas "G" Porosity |
|-------------------------------------------|---------------|-------------|--------------------------------|-------------------------------|
| 1/4" NPT Length: 1.5" Weight: 2 oz. | Brass | 5,000 | 722BE | 722BG |
| | 303 Stainless | 15,000 | 722SE | 722SG |
| 1/2" NPT Length: 2.2" Weight: 8 oz. | Brass | 5,000 | 723BE | 723BG |
| | 303 Stainless | 15,000 | 723SE | 723SG |



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