



## *Micro-Miniature and Close Tolerance O-Rings and Seals*

**Pressure Seals Inc. is the source for Micro-Miniature and Close Tolerance O-Rings and seals.**

### **Micro-Miniature**

The drive for smaller and lighter equipment has compelled the need for smaller, more precise rubber seals.

Pressure Seals' proprietary molding process, state of the art deflashing equipment and in-house tooling facility allow us to accurately produce quality molded O-Rings and seals smaller than .1" ( 2.5 mm). At present our smallest O-Ring has a major diameter of .030", with a cross section and ID of .010" each. (This O-Ring is pictured below just to the left and slightly below the head of the pin).



### **Micro-Miniature Seals**

Head of pin is .072" diameter

Our Micro-Miniature seals are inspected under magnification and like all PSI seals - 100% are visually inspected for flash and flaws.

### **Close Tolerance Seals**

Lean manufacturing, defect reduction and other quality practices may require rubber parts held to tolerances tighter than the AS-568 standard.

The same equipment and processes that are used to produce minute seals enable us to manufacture O-Rings and seals held to close tolerances. Tolerances better than AS-568 can be held to specified dimensions. Specific rubber properties may also be designated for control.

Close tolerance seals start with a precise tool and intimate knowledge of our compounds and production processes. Pressure Seals in-house tool shop will produce a mold to precisely match the shrink characteristics of the desired rubber material. Production parameters are tightly controlled to minimize variation.

In addition to our standard 100% visual inspection - when the size and configuration of the seal permit - PSI uses automated measuring equipment to ensure compliance with your specification. When necessary, gauging may be performed to verify dimensional integrity.

Close Tolerance and Micro-Miniature O-Rings and Seals are available in the following Polymers

- Nitrile (Buna N, NBR)
- Carboxylated Nitrile (XNBR)
- Hydrogenated Nitrile (HNBR)
- Styrene Butadiene
- Butyl
- Hypalon®
- Fluoroelastomer (Viton®)
- Fluorosilicone
- Silicone
- Perfluoroelastomer (P-REX™)
- Aflas®
- Vamac®
- Chloroprene (Neoprene®)
- EPDM
- Millable Gum Urethane
- Polyacrylate
- Hydryn
- Natural Rubber