

Permanent Miniature Bridge Plug (PMBP)

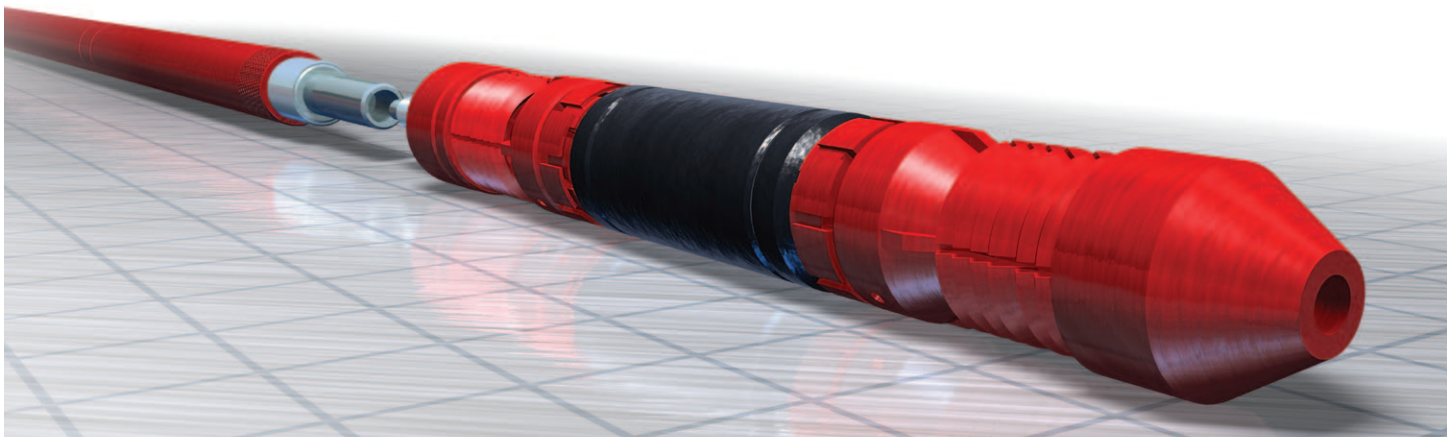
The Permanent Miniature Bridge Plug (PMBP) is designed to set in coiled tubing or drill collars. It is designed to withstand differential pressures of 7,500 psi at 350 °F. In house, the bridge plug is successfully pressure tested at 10,000 psi. The bridge plug is available in four sizes: 0.750", 0.875", 1.12", and 1.37" which can be set on slickline or electric line.

The permanent miniature bridge plug has opposed, case hardened slips located above and below a three piece rubber pack-off system, manufactured out of either HSN (Highly Saturated Nitrile) or Viton. The pack-off elements are contained by rocker action metal back-up rings that eliminate extrusion of the elements at high temperatures and pressures. A ratchet lock ring retains the setting force applied to the slips and pack-off to maintain a constant sealing pressure.

To assure centered setting of the small diameter plug in coiled tubing and/or drill collars, special ribbed cones direct the slips to evenly spaced positions against the pipe. Should it be necessary to remove a permanent bridge plug after setting, a milling process is recommended as the plug is constructed of mild steel and is not considered drillable.

Features & Benefits

- The small O.D. of the bridge plugs allow them to be run in tubing with size restrictions like coiled tubing, and still form a fluid tight seal against the tubing wall.
- There are the two firing heads depending on the application, either a pressure activated safety firing head or a jar down firing head which makes the system very versatile and adaptable for use with slickline.
- Depending on the size of the bridge plugs, setting sleeves are available to attach to the 0.875" setting tool.
- All Permanent Miniature Bridge Plugs are now available in a pumpthrough configuration with a check valve rated to a standard cracking pressure of 25 psi and a pressure rating to 6,000 psi. Adjustable cracking pressures are available on request. Trinity Tools is pleased to announce the successful design, testing and manufacture of the 0.750" Permanent Miniature Bridge Plug and 0.750" Multi-Stage Setting Tool. A 0.750" setting sleeve is used on the 0.750" Multistage Setting Tool only.



Size OD (in)	Length (in)	Setting Range (in)		Wireline Setting Tool (in)	Setting Sleeve (in)	Setting Force (lbs)
		Min	Max			
0.750	10.80	0.875	See Note	0.750	0.750	2000
0.875	11.20	1.000	1.250	0.875	0.875	2000
1.12	11.20	1.25	1.500	0.875	1.12	2000
1.37	12.21	1.500	1.750	0.875	1.37	2000

Note: 0.750 Plugs must be specified on a per job basis in accordance with coil tubing size and wall thickness because of tolerance limits. Various Elastomers sizes on request