



Pump-Out Cementing Sleeve

The Pump-Out Cementing Sleeve is used for cementing tubing strings in both cased and open holes. It allows for internal parts to be pumped out after the cementing process leaving a full open bore with no loss of tubing strength. Available in any material necessary to meet customer needs. A basket or packer placed below the sleeve provides a seal-point for pumping cement up the outside of the tubing string.

Operations

Simplicity is the key to the Pump-Out Plug Cementing Sleeve. Pressure applied to the trip ball moves the lower piston past the cementing ports allowing cement to be pumped outside the tubing string. After the desired amount of cement has been placed the wiper plug is pumped down to the sleeve and moves the upper piston and outer sleeve over the cementing ports. Pins are then sheared and the upper and lower pistons are pumped out of the bottom of the tool leaving a full and unrestricted opening through the sleeve. The outer sleeve is locked in the closed position.

Specification Guide

Size	Min I.D.	Max O.D.	Thread Connection	I.D. After Pump-out	Part Number
2 $\frac{3}{8}$	1.00	3.250	2 $\frac{3}{8}$ EUE	1.92	22020
2 $\frac{7}{8}$	1.25	3.750	2 $\frac{7}{8}$ EUE	2.40	22027
3 $\frac{1}{2}$	1.25	4.410	3 $\frac{1}{2}$ EUE	2.90	22035
4	1.25	4.625	4 NU	3.45	22040
4 $\frac{1}{2}$	1.25	5.500	4 $\frac{1}{2}$ 8RD	3.97	22045
5 $\frac{1}{2}$	1.25	6.130	5 $\frac{1}{2}$ 8RD	4.62	22055

* Other sizes and connections available on request