

A-1 HYDRAULIC

1.750" (44.5MM) SETTING TOOL

INNOVATION REVEALED

The **A-1 Hydraulic Setting Tool** is utilized to set bridge plugs, composite plugs, packers, and cement retainers by converting applied hydraulic pressure into a pull force. The setting tool is deployed into the well by using coiled tubing, tubing, or drill pipe.

FEATURES

- Automatically balances with wellbore fluid
- Hydraulically activated by applied pressure
- No ballistics required
- Redress Kits available
- Will couple to most adapter kits
- No wet string pull outs
- Coil tubing, tubing, or drill pipe conveyed
- Five stages are standard
- Can withstand high tensile loads
- No rotation required
- Shear Value: 175 PSI per shear screw

OPERATIONS

While running into the well, the tool automatically fills with well bore fluid and remains balanced. When the setting depth is reached, a ball bearing is released down the work string. A circulation rate can then be established to aid in pumping the ball bearing down into its mating seat inside the setting tool. When the ball bearing is fully seated, a pressure buildup will be noted. Slowly continue applying the required pressure to fully stroke the setting tool and set the downhole device. After the tool is fully stroked, circulation will be re-established.

➤ Baker #5 or equivalent:

Piston Area: 0.892 in² (575.5mm²) /cylinder effective surface area
4.46 in² with 5 stages

Example: Applied PSI (MPa) @ surface X total x-sectional area
= shear value Lbs (Kgs) @ tool
2,900psi (20.0MPa) X 4.46 in²
= 12,934lbs (14,959.7Kg)

O.D. SIZE inch (mm)	STANDARD CONNECTION inch (mm)	LENGTH inch (mm)	BALL SIZE inch (mm)	BALL SEAT inch (mm)	STROKE inch (mm)	TEMP RATING
1.750 (44.5)	1.0 (25.4) CS HYDRIL	84 (2,133.6)	0.375 (9.5)	0.250 (6.4)	8.0 (203.2)	400°F (204°C)



Patent Pending