

A-1 HYDRAULIC

3.375" (85.7MM) HEAVY SETTING TOOL

INNOVATION REVEALED

The **A-1 Heavy 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
- Four cylinders are standard
- No wet string pull outs
- Coil tubing, tubing, or drill pipe conveyed
- Will couple to most adapter kits
- 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 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 set (shear off) the downhole device and fully stroke the setting tool. Once the device is set, and the setting tool has fully stroked, circulation will be re-established.

➤ Baker #10 or equivalent:

Piston Area: 3.298 in² (2,127.7mm²) /cylinder effective surface area
13.192 in² with 4 stages

Example: Applied PSI (MPa) @ surface X total x-sectional area
= shear value Lbs (Kgs) @ tool

2,500psi (17.3MPa) X 13.192 in²
= 32,980lbs (14,959.7Kg)

➤ Baker #20 or equivalent:

Piston Area: 3.298 in² (2,127.7mm²) /cylinder effective surface area
13.192 in² with 4 stages

Example: Applied PSI (MPa) @ surface X total x-sectional area
= shear value Lbs (Kgs) @ tool

3,800psi (26.2MPa) X 13.192 in²
= 50,130lbs (22,739Kg)

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
3.375 (85.7)	2-3/8" (60.3) EU 8RD	84.25 (2,134.0)	0.625 (15.9)	0.500 (12.7)	11 (279.4)	400°F (204°C)



Patent Pending