

## SBRD

### Solid-body mechanical-set liner hanger

#### APPLICATIONS

- Vertical wells
- Onshore wells

#### BENEFITS

- Reduces costs for nonrotational liner hanger applications
- Maximizes reliability and minimizes lifetime well costs with solid-body construction

#### FEATURES

- Solid-body construction for increased performance ratings
- Compatibility with premium connections
- Standard right-hand mechanical setting and release
- Multiple cone designs to minimize stress in supporting casing
- Suitability for light to medium-weight liners

The SBRD solid-body mechanical-set liner hanger is designed for wells where the workstring can be manipulated to set the hanger. It comprises the hanger body or mandrel, one or more sets of cone pads, slips, and a cage assembly to carry the slips.

#### Protected slips

The cage contains a J-slot and drag springs. When the liner reaches the target depth, mechanical manipulation of the hanger body moves the J-slot from the running to the setting position, bringing the slips into contact with the cones. A gauge ring protects the slips while the hanger is run into the wellbore.

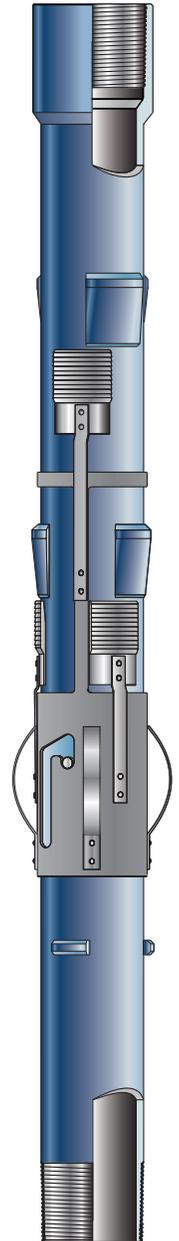
#### Robust construction

The SBRD is manufactured from mechanical tubing. The J lug, gauge ring, and cone pads are integral machined features. This construction enhances hanger performance. The slips are manufactured to 55–60 Rockwell “C” hardness and therefore compatible with high-grade casing. SBRD dimensions are suitable for premium thread connections.

This liner hanger uses standard 80,000-psi [552-MPa] through 125,000-psi [862-MPa] yield materials. Other yield strengths and materials are available on request.

#### Auxiliary equipment

The SBRD is run in combination with a setting adapter or packer and the corresponding setting tool. The STL mechanical release setting tool and RRT right-hand-release running tool are commonly used.



*SBRD solid-body mechanical-set liner hanger.*

## SBRD Specifications

Liner Hanger Size <sup>†</sup> (Liner × Casing), in [mm]	Casing		Liner		
	Size, in [mm]	Weight, lbm/ft [kg/m]	Size, in [mm]	Weight, lbm/ft [kg/m]	Max. OD, in [mm]
4.500 × 7.000 [114.3 × 177.8]	7.000 [177.8]	23.00–26.00 [34.27–38.74]	4.500 [114.3]	9.50–16.90 [14.16–25.18]	6.050 [153.7]
	7.000 [177.8]	29.00–38.00 [43.21–56.62]	4.500 [114.3]	9.50–16.90 [14.16–25.18]	5.680 [144.2]
	7.000 [177.8]	23.00–26.00 [34.27–38.74]	5.000 [127.0]	11.50–24.10 [17.14–35.91]	6.050 [153.7]
5.000 × 7.000 [127.0 × 177.8]	7.000 [177.8]	29.00–32.00 [43.21–47.68]	5.000 [127.0]	11.50–24.10 [17.14–35.91]	5.870 [149.0]
	7.000 [177.8]	35.00–38.00 [52.15–56.62]	5.000 [127.0]	11.50–24.10 [17.14–35.91]	5.680 [144.3]
5.000 × 7.625 [127.0 × 193.7]	7.625 [193.7]	33.70–39.00 [50.21–58.11]	5.000 [127.0]	11.50–24.10 [17.14–35.91]	6.250 [158.1]
5.500 × 7.625 [139.7 × 193.7]	7.625 [193.7]	24.00–29.70 [35.76–44.25]	5.500 [139.7]	14.00–23.00 [20.86–34.27]	6.620 [168.1]
	7.625 [193.7]	33.70–39.00 [50.21–58.11]	5.500 [139.7]	14.00–23.00 [20.86–34.27]	6.370 [161.7]
7.000 × 9.625 [177.8 × 244.5]	9.625 [244.5]	36.00–43.50 [53.64–64.82]	7.000 [177.8]	17.00–35.00 [25.33–52.15]	8.430 [214.1]
	9.625 [244.5]	40.00–47.00 [59.60–70.03]	7.000 [177.8]	17.00–35.00 [25.33–52.15]	8.380 [212.8]
	9.625 [244.5]	47.00–53.50 [70.03–79.72]	7.000 [177.8]	17.00–35.00 [25.33–52.15]	8.250 [209.5]
	9.625 [244.5]	58.40 [87.02]	7.000 [177.8]	17.00–35.00 [25.33–52.15]	8.120 [206.2]
7.625 × 9.625 [193.7 × 244.5]	9.625 [244.5]	36.00–43.50 [53.64–64.82]	7.625 [193.7]	24.00–47.10 [35.76–70.18]	8.500 [216.9]
	9.625 [244.5]	47.00–53.50 [70.03–79.72]	7.625 [193.7]	24.00–47.10 [35.76–70.18]	8.310 [211.0]
9.625 × 13.375 [244.5 × 339.7]	13.375 [339.7]	54.50–68.00 [81.21–101.32]	9.625 [244.5]	32.30–58.40 [48.13–87.02]	12.000 [304.8]

<sup>†</sup> Other sizes available on request.