# WZL MUD SAVER

Automated Mud Containment Valve

## FEATURES & BENEFITS

- Valve that automatically opens when circulation pressure exceeds 65 psi (450 kPa) and closes when circulation is stopped to retain mud inside kelly or top drive
- Up to 20 gallons (76 litres) of mud saved per connection
- Automatic operation eliminates operator error
- Replaces kelly saver sub to reduce wear on kelly valve
- Significant time saved:
  - No need to wait for kelly to drain
  - Reduced washing of floor and equipment
  - No manual operation of valve
- Reduces potential for slips and falls by minimizing spillage on rig floor
- Environmental benefits:
  - Minimizes seepage of fluids into natural environment
  - Reduces water used to wash floor
  - Reduces total volume of hazardous fluid to be treated or disposed



Placement of Mud Saver within top drive

## OPERATION

**Wireline operation**

An expansion sleeve for wireline operations is included with each Mud Saver valve; the sleeve is pumped down until it stops at a shoulder located below elastomer bladder, which prevents the bladder from collapsing if pumps are turned off.

**No seats or mud ports**

Eliminates expensive chargebacks common on other designs.

## SPECIFICATIONS – IMPERIAL

| Nominal size (in) | Body OD (in) | Shoulder-to-shoulder length (in) | ID, activated (in) | Wireline sleeve ID (in) | Tensile yield (lb) | Torsional yield (ft-lb) | Burst pressure (psi) | Standard connection |
|---|---|---|---|---|---|---|---|---|
| **4 ¾** | 5.00 | 33.18 | 2.13 | 1.76 | 850,000 | 18,500 | 14,700 | 3 ½ IF |
| **6** | 6.00 | 32.68 | 2.50 | 2.25 | 1,500,000 | 70,700 | 20,000 | 4 ½ IF |
| **6 ¾** | 6.88 | 32.68 | 2.50 | 2.25 | 1,680,000 | 82,000 | 20,000 | 4 ½ XH |

Specifications are based on as-new condition and are subject to change without notice.

## SPECIFICATIONS – METRIC

| Nominal size (mm) | Body OD (mm) | Shoulder-to-shoulder length (mm) | ID, activated (mm) | Wireline sleeve ID (mm) | Tensile yield (daN) | Torsional yield (N·m) | Burst pressure (kPa) | Standard connection |
|---|---|---|---|---|---|---|---|---|
| **121** | 127 | 843 | 54.1 | 44.7 | 378,100 | 25,100 | 101,400 | 3 ½ IF |
| **152** | 152 | 830 | 63.5 | 57.1 | 667,200 | 95,900 | 137,900 | 4 ½ IF |
| **165** | 175 | 830 | 63.5 | 57.1 | 747,300 | 111,200 | 137,900 | 4 ½ XH |

Specifications are based on as-new condition and are subject to change without notice.



MUD SAVER (CLOSED)



MUD SAVER (OPEN)

### EXTERNAL BRONZE OR ELASTOMER CASING SAVER SLEEVE

### NO SEATS OR MUD PORTS

CONTACT US FOR PRICING AND FURTHER DETAILS: wzlindustries.com/contact/