

## Features

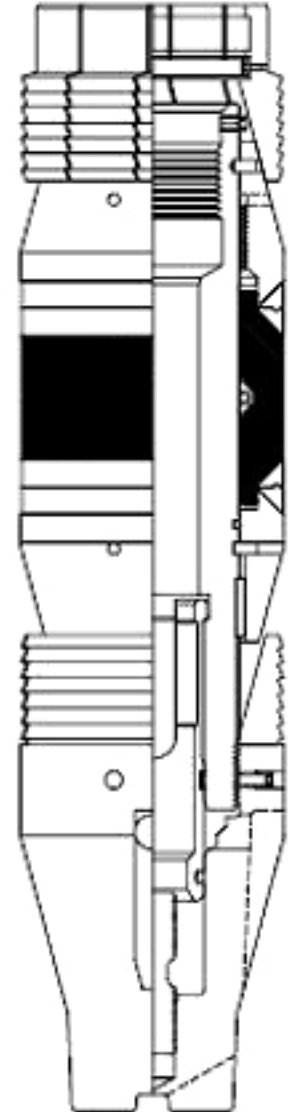
- Cast Iron drillable design
- Simple, surface-controlled valve automatically closes when stinger is removed.
- Converts between mechanical and wireline set by changing top slips.
- Components rotationally locked for easy drillout.
- Temperature rating to 400F

## Benefits

- Allows pressure testing before squeeze
- Valve protects sensitive zones in low-fluid wells
- Fast drill out time saves rig time

## Operating Instructions

The setting tool is designed for use in varied hole conditions and employs several features to prevent premature setting of the retainer or bridge plug or damage to the tool. It is suggested that the tool be run at a moderate speed while avoiding sudden stops. Note: While running in, care must be taken to prevent right-hand rotation from being transmitted to the setting tool. Under no circumstance must there be allowed more than four turns of the tubing to the right while running in. As a precaution, after every 10 to 15 stands, at least one or more left hand turns should be placed in the work string to assure the control nut is “bumped up”. When the desired setting depth has been reached, the tools should be picked up two (2) feet above the desired setting point. This movement is necessary to provide the required tool stroke to release the upper slips and allow the Control Nut to move freely. Rotate the work string to the right sufficiently to transmit 10 turns to the tool. This right-hand rotation will thread the Control Nut off its matching thread on the Mechanical Setting Tool mandrel and release the Control Sleeve from the running in position. Lower the tools back down to the desired setting depth. The Drag Blocks will support the Control Sleeve and Setting Sleeve. The downward motion will push the upper slips from under the Setting Sleeve. The upper slip segments are then forced out against the casing by the leaf springs attached to the inside of each slip segment. When the upper slips are released, the Retaining Sleeve is pulled from over the Dog allowing it to move out and release the Control Latch from the Stinger Sub Body.



| CASING           |                              |                          |                          | TOOL                     |
|------------------|------------------------------|--------------------------|--------------------------|--------------------------|
| O.D.<br>(IN./mm) | WEIGHT<br>(LB/FT.-kg/m)      | MIN.<br>I.D.<br>(IN./mm) | MAX.<br>O.D.<br>(IN./mm) | MAX.<br>O.D.<br>(IN./mm) |
| 4-1/2<br>114,30  | 9.5 - 15.1<br>14,14 - 22,47  | 3.826<br>97,18           | 4.090<br>103,89          | 3.593<br>96,26           |
| 5<br>127,00      | 11.5 - 18.0<br>17,11 - 26,78 | 4.276<br>108,61          | 4.560<br>115,82          | 3.937<br>100,00          |
| 5-1/2<br>139,70  | 13.0 - 23.0<br>19,34 - 34,22 | 4.670<br>118,62          | 5.118<br>129,00          | 4.312<br>109,52          |
| 5-3/4<br>146,05  | 14.0 - 25.2<br>20,83 - 37,50 | 4.890<br>124,21          | 5.290<br>134,37          | 4.700<br>119,38          |
| 6-5/8<br>168,28  | 17.0 - 34.5<br>25,30 - 51,34 | 5.575<br>144,61          | 6.135<br>155,83          | 5.375<br>136,53          |
| 7<br>177,80      | 17.0 - 35.0<br>25,30 - 52,08 | 6.004<br>152,50          | 6.538<br>166,07          | 5.688<br>144,48          |
| 7-5/8<br>193,68  | 20.0 - 39.0<br>29,76 - 58,03 | 6.625<br>168,28          | 7.125<br>180,98          | 6.312<br>160,32          |
| 8-5/8<br>224,48  | 24.0 - 49.0<br>35,71 - 72,90 | 7.511<br>190,77          | 8.097<br>205,66          | 7.125<br>180,98          |
| 9-5/8<br>224,48  | 29.3 - 61.1<br>43,60 - 90,92 | 8.375<br>212,73          | 9.063<br>230,22          | 8.125<br>206,38          |

