

## DESCRIPTION

The R-Type Casing Packer is a mechanical set double grip service Packer used in production, stimulation and testing applications. The Packer features a large internal bypass flow path to prevent swabbing during the trip in or out of the well. Tubing pressure acts against the balance piston, and engages the collet to prevent the bypass from being opened during injection operations. Additionally, tubing pressure engages the hydraulic hold down buttons into the casing to prevent the Packer from being pumped out of the well. The Packer is set by right-hand rotation and slacking off the required weight to pack off the annulus. To unset the Packer, pick up the string to open the bypass. Continue pulling until the string is free. The J-Body Mechanism will automatically reset to the run in hole position.

## APPLICATIONS

- Drill stem testing
- Tubing-conveyed perforating
- Acidizing and injection operations
- Stimulations
- Fracking

## FEATURES

- Rocker type slips
- Three piece packing element system
- Large internal bypass valve reduces element swabbing
- Simple set and release procedures
- Optional left hand set J-body available
- Slips with carbide inserts available
- Surface controlled combination bypass and equalizing valve
- Tubing pressure actuated collet lock to eliminate excessive set down weight requirements
- Sets securely in any hardness casing, including premium grades



### SPECIFICATIONS - 3120D

| CASING SIZE (IN.) | CASING WEIGHT (LBS. LFT.) | SETTING RANGE MIN ID (IN.) | SETTING RANGE MAX ID (IN.) | TOOL ID (IN.) | TOOL OD (IN.) | THREAD CONNECTIONS (BOX X PIN) (IN.) |
|-------------------|---------------------------|----------------------------|----------------------------|---------------|---------------|--------------------------------------|
| 4-1/2             | 9.50-13.50                | 3.910                      | 4.090                      | 1.938         | 3.771         | 2-3/8 EUE 8RD<br>or<br>2-7/8 EUE 8RD |
| 5                 | 15.00-18.00               | 4.250                      | 4.408                      | 1.938         | 4.125         | 2-3/8 EUE 8RD                        |
| 5                 | 11.50-15.00               | 4.408                      | 4.560                      | 1.938         | 4.250         | 2-3/8 EUE 8RD                        |
| 5-1/2             | 26.00                     | 4.408                      | 4.560                      | 1.938         | 4.250         | 2-3/8 EUE 8RD                        |
| 5-1/2             | 20.00-23.00               | 4.625                      | 4.778                      | 1.995         | 4.500         | 2-3/8 EUE 8RD                        |
| 5-1/2             | 15.50-20.00               | 4.778                      | 4.950                      | 1.995         | 4.641         | 2-3/8 EUE 8RD                        |
| 5-1/2             | 13.00-15.50               | 4.950                      | 5.190                      | 1.995         | 4.781         | 2-3/8 EUE 8RD                        |
| 5-3/4             | 22.50                     | 4.950                      | 5.190                      | 1.995         | 4.781         | 2-3/8 EUE 8RD                        |
| 6                 | 26.00                     | 4.950                      | 5.190                      | 1.995         | 4.781         | 2-3/8 EUE 8RD                        |
| 6                 | 20.00-23.00               | 5.191                      | 5.390                      | 1.995         | 5.062         | 2-3/8 EUE 8RD                        |
| 6                 | 15.00-18.00               | 5.391                      | 5.560                      | 1.995         | 5.156         | 2-3/8 EUE 8RD                        |
| 6-5/8             | 34.00                     | 5.561                      | 5.608                      | 1.995         | 5.406         | 2-3/8 EUE 8RD                        |
| 6-5/8             | 28.00-32.00               | 5.610                      | 5.791                      | 1.995         | 5.484         | 2-3/8 EUE 8RD                        |
| 6-5/8             | 24.00                     | 5.830                      | 5.937                      | 2.416         | 5.656         | 2-7/8 EUE 8RD                        |
| 6-5/8             | 38.00                     | 5.830                      | 5.937                      | 2.416         | 5.656         | 2-7/8 EUE 8RD                        |
| 6-5/8             | 17.00-20.00               | 5.938                      | 6.135                      | 2.416         | 5.812         | 2-7/8 EUE 8RD                        |
| 7                 | 32.00-35.00               | 5.938                      | 6.135                      | 2.416         | 5.812         | 2-7/8 EUE 8RD                        |
| 7                 | 26.00-29.00               | 6.136                      | 6.276                      | 2.416         | 5.968         | 2-7/8 EUE 8RD or 3-1/2 EUE 8RD       |
| 7                 | 20.00-26.00               | 6.276                      | 6.456                      | 2.416         | 6.078         | 2-7/8 EUE 8RD or 3-1/2 EUE 8RD       |
| 7                 | 17.00-20.00               | 6.454                      | 6.578                      | 2.416         | 6.266         | 2-7/8 EUE 8RD                        |
| 7-5/8             | 33.70-39.00               | 6.579                      | 6.797                      | 2.416         | 6.453         | 2-7/8 EUE 8RD                        |
| 7-5/8             | 24.00-29.70               | 6.798                      | 7.025                      | 2.416         | 6.672         | 2-7/8 EUE 8RD                        |
| 7-5/8             | 20.00-24.00               | 7.025                      | 7.125                      | 2.416         | 6.812         | 2-7/8 EUE 8RD                        |
| 9-5/8             | 47.00-53.50               | 8.343                      | 8.681                      | 3.938         | 8.218         | 3-1/2 EUE 8RD                        |
| 9-5/8             | 40.00-47.00               | 8.681                      | 8.835                      | 3.938         | 8.437         | 2-7/8 EUE 8RD or 3-1/2 EUE 8RD       |
| 9-5/8             | 29.30-36.00               | 8.836                      | 9.063                      | 3.938         | 8.593         | 2-7/8 EUE 8RD or 3-1/2 EUE 8RD       |

\* Note: the most common sizes and specifications are depicted above. Other sizes are available upon request

\* Available with carbide insert slips when requested

\* These specifications are guidelines only. Refer to the equipment technical manual, or contact Northstar for more information.