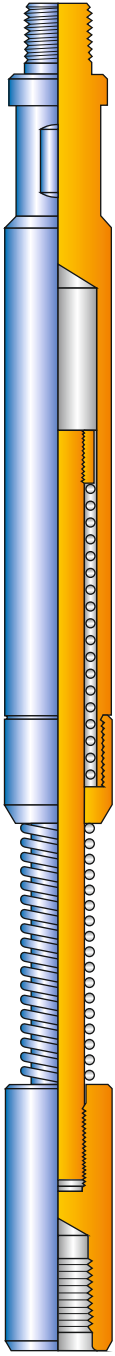


SHOCK ABSORBERS

The PARVEEN Shock Absorber is designed to reduce the impact shock load transmitted to sensitive downhole instruments, while running in the well during wireline operations.



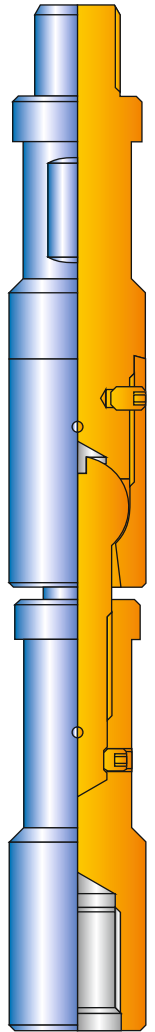
SHOCK ABSORBER

| SHOCK ABSORBERS | | | | | |
|-----------------|----------------|----------------|--------------------|-----------------------|----------|
| Size (in) | Max. O.D. (in) | F/N. O.D. (in) | Top Connection Pin | Bottom Connection Box | Part No. |
| 1-1/2 | 1.50 | 1.375 | 15/16-10 UN | 3/4 - 16 UNF | 301521 |
| 1-3/4 | 1.75 | 1.375 | 15/16-10 UN | 3/4 - 16 UNF | 301721 |
| 2 | 2.00 | 1.375 | 15/16-10 UN | 3/4 - 16 UNF | 302021 |

- Other Sizes Available On Request

KNUCKLE JOINTS

PARVEEN Knuckle Joints are used to add flexibility to the tool string and these are especially effective in deviated wells. Whenever a stem and a jar are not aligned these will not move freely, making it difficult to operate tools. Adding a knuckle joint in a string this situation can be avoided. Knuckle joints are run immediately below the mechanical jar. For additional flexibility, an additional knuckle joint can be included between the stem and the jar. The PARVEEN knuckle joint has a built in double fishing neck.



KNUCKLE JOINT

| KNUCKLE JOINTS | | | | |
|----------------|----------------|----------------|----------------------|----------|
| Size (in) | Max. O.D. (in) | F/N. O.D. (in) | Connection Pin X Box | Part No. |
| 1-1/8 | 1.125 | 0.875 | 5/8-11 UNC | 071100 |
| 1-1/4 | 1.250 | 1.187 | 15/16-10 UN | 071211 |
| 1-1/2 | 1.500 | 1.375 | 15/16-10 UN | 071521 |
| 1-7/8 | 1.875 | 1.750 | 1-1/16-10 UN | 071932 |
| 2-1/8 | 2.125 | 1.750 | 1-1/16-10 UN | 072132 |
| 2-1/2 | 2.500 | 2.312 | 1-9/16-10 UN | 072546 |

- Other Sizes Available On Request