

## PRODUCT OVERVIEW

# S2 SINGLE PIECE BOW SPRING CENTRALIZER

### ENGINEERING SOLUTIONS FOR CHALLENGING WELLS

The revolutionary S2 bow spring centralizer is a high-performance, single-piece solution specifically designed for challenging wellbores. Its engineered combination of strength and flexibility enhances run-in-hole (RIH) efficiency, reducing time and costs for operators aiming to reach total depth.

The S2's single-piece construction eliminates weak points, making it highly durable in demanding casing running environments. It is particularly suited for severe well geometries, high build rates, extended reach, and J-type and S-type wells, as well as high-temperature, high-pressure (HTHP) applications.

Manufactured to gauge, the S2 offers exceptional restoring force and superior flexibility in downhole conditions. Its innovative design has earned multiple accolades, including the prestigious Queen's Award for Innovation.

### KEY PRODUCT BENEFITS

- Tested to exceed API 10D 7<sup>th</sup> Edition
- Supports cementing best practices
- Made to gauge
- Optimum standoff
- Maximum flow by area
- Reduced torque and drag
- Enhanced rotation and reciprocation

### TARGETED APPLICATIONS

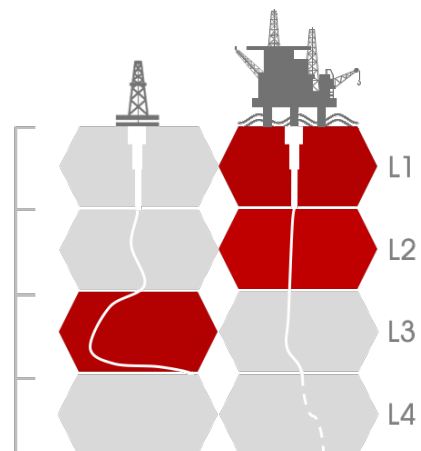
- Tight spots
- Onshore and offshore wells
- Unconsolidated wells
- Extended reach wells
- Horizontal and highly deviated wells
- HTHP and geothermal wells
- Shale oil and gas wells
- OH completions w/packers
- Sand screen completions
- J-type and S-type

### PERFORMANCE RATINGS

**6**   
FLEXIBILITY

**7**   
RUNABILITY

**6**   
STRENGTH



## CORE PRODUCT SIZING

| Product size                     | Part Number |
|----------------------------------|-------------|
| 2-7/8" ID for use in 4-1/8" Hole | 0278-0418S  |
| 3-1/2" ID for use in 6" Hole     | 0312-0600S  |
| 3-1/2" ID for use in 6-1/8" Hole | 0312-0618S  |
| 3-1/2" ID for use in 8-1/4" Hole | 0312-0814S  |
| 3-1/2" ID for use in 8-1/2" Hole | 0312-0812S  |
| 4-1/2" ID for use in 5-7/8" Hole | 0412-0578S  |
| 4-1/2" ID for use in 6" Hole     | 0412-0600S  |
| 4-1/2" ID for use in 6-1/8" Hole | 0412-0618S  |
| 4-1/2" ID for use in 6-1/2" Hole | 0412-0612S  |
| 4-1/2" ID for use in 6-3/4" Hole | 0412-0634S  |
| 4-1/2" ID for use in 7-7/8" Hole | 0412-0778S  |
| 4-1/2" ID for use in 8-1/2" Hole | 0412-0812S  |
| 4-1/2" ID for use in 8-3/8" Hole | 0412-0838S  |
| 5" ID for use in 6" Hole         | 0500-0600S  |
| 5" ID for use in 6-1/8" Hole     | 0500-0618S  |
| 5" ID for use in 6-1/2" Hole     | 0500-0612S  |
| 5" ID for use in 6-3/4" Hole     | 0500-0634S  |
| 5" ID for use in 8-1/2" Hole     | 0500-0812S  |
| 5-1/2" ID for use in 6-1/2" Hole | 0512-0612S  |
| 5-1/2" ID for use in 6-3/4" Hole | 0512-0634S  |
| 5-1/2" ID for use in 7-7/8" Hole | 0512-0778S  |
| 5-1/2" ID for use in 8-1/2" Hole | 0512-0812S  |
| 5-1/2" ID for use in 8-3/4" Hole | 0512-0834S  |
| 6" ID for use in 8-1/2" Hole     | 0600-0812S  |
| 6" ID for use in 8-3/4" Hole     | 0600-0834S  |
| 6-5/8" ID for use in 8-1/2" Hole | 0658-0812S  |
| 6-5/8" ID for use in 8-3/4" Hole | 0658-0834S  |
| 7" ID for use in 8-1/2" Hole     | 0700-0812S  |
| 7" ID for use in 8-3/4" Hole     | 0700-0834S  |
| 7" ID for use in 9-1/2" Hole     | 0700-0912S  |
| 7" ID for use in 9-7/8" Hole     | 0700-0978S  |
| 7" ID for use in 10-5/8" Hole    | 0700-1058S  |
| 7-5/8" ID for use in 8-1/2" Hole | 0758-0812S  |
| 7-5/8" ID for use in 8-3/4" Hole | 0758-0834S  |

| Product size                       | Part Number |
|------------------------------------|-------------|
| 7-5/8" ID for use in 9-1/2" Hole   | 0758-0912S  |
| 7-5/8" ID for use in 9-7/8" Hole   | 0758-0978S  |
| 7-3/4" ID for use in 9-1/2" Hole   | 0734-0912S  |
| 8-5/8" ID for use in 10-5/8" Hole  | 0858-1058S  |
| 9-5/8" ID for use in 10-5/8" Hole  | 0958-1058S  |
| 9-5/8" ID for use in 11-5/8" Hole  | 0958-1158S  |
| 9-5/8" ID for use in 12-1/4" Hole  | 0958-1214S  |
| 9-5/8" ID for use in 13-1/2" Hole  | 0958-1312S  |
| 9-7/8" ID for use in 12-1/4" Hole  | 0978-1214S  |
| 10" ID for use in 12-1/4" Hole     | 1000-1214S  |
| 10-1/8" ID for use in 12-1/4" Hole | 1018-1214S  |
| 10-3/4" ID for use in 12-1/4" Hole | 1034-1214S  |
| 10-3/4" ID for use in 13-1/2" Hole | 1034-1312S  |
| 10-3/4" ID for use in 14-3/4" Hole | 1034-1434S  |
| 11-3/4" ID for use in 13-1/2" Hole | 1134-1312S  |
| 11-3/4" ID for use in 14-3/4" Hole | 1134-1434S  |
| 11-7/8" ID for use in 14-3/4" Hole | 1178-1434S  |
| 13-3/8" ID for use in 16" Hole     | 1338-1600S  |
| 13-3/8" ID for use in 17" Hole     | 1338-1700S  |
| 13-3/8" ID for use in 17-1/2" Hole | 1338-1712S  |
| 13-5/8" x ID for use in 16" Hole   | 1358-1600S  |
| 13-5/8" ID for use in 17-1/2" Hole | 1358-1712S  |
| 14" ID for use in 16" Hole         | 1400-1600S  |
| 14" ID for use in 17-1/2" Hole     | 1400-1712S  |
| 16" ID for use in 18-5/8" Hole     | 1600-1858S  |
| 16" ID for use in 20" Hole         | 1600-2000S  |
| 18-5/8" ID for use in 22" Hole     | 1858-2200S  |
| 18-5/8" ID for use in 23" Hole     | 1858-2300S  |
| 18-5/8" ID for use in 24" Hole     | 1858-2400S  |
| 20" ID for use in 24" Hole         | 2000-2400S  |
| 20" ID for use in 26" Hole         | 2000-2600S  |
| 22" ID for use in 26" Hole         | 2200-2600S  |
| 24" ID for use in 28" Hole         | 2400-2800S  |

| MODEL    | DUTY                       | STYLE             | MATERIAL              | CONSTRUCTION  | STANDOFF  | UNDER-REAMED  | FLEX                                     | APPLICATION               | PERFORMANCE |
|----------|----------------------------|-------------------|-----------------------|---|---|---|--|---------------------------|-------------|
|          | Light<br>Standard<br>Heavy | Slip-on<br>Hinged | Steel<br>Heat Treated | Single Piece<br>Welded Bows<br>Mechanical<br>Bow Spring<br>Solid Body | Standard Bows<br>Offset Bows<br>Close Tolerance | Subs<br>Used in tight spots<br>Used in restrictions | Level 1<br>Level 2<br>Level 3<br>Level 4 | Flexibility<br>Runability | Strength    |
| OBH      | ■                          |                   | ■                     | ■   |   |   | ■  |                           | 5 4 4       |
| OBH-W    | ■                          |                   | ■                     | ■   |   |   | ■  |                           | 5 5 5       |
| OSN      |                            | ■                 | ■                     | ■   |   |   | ■  |                           | 0 5 8       |
| OBS-2    | ■                          |                   | ■                     | ■   |   |   | ■  |                           | 6 7 6       |
| ES       |                            | ■                 | ■                     | ■   |   |   | ■  |                           | 6 7 6       |
| OBS      |                            | ■                 | ■                     | ■   |   |   | ■  |                           | 4 5 7       |
| S2       |                            | ■                 | ■                     | ■   |   |   | ■  |                           | 7 8 7       |
| S2-H     |                            | ■                 | ■                     | ■   |   |   | ■  |                           | 7 8 7       |
| S2-HD    |                            | ■                 | ■                     | ■   |   |   | ■  |                           | 7 7 8       |
| TUR      |                            | ■                 | ■                     | ■   |   |   | ■  |                           |             |
| TUR-CT   |                            | ■                 | ■                     | ■   |   |   | ■  |                           |             |
| TUR-SUB  |                            | ■                 | ■                     | ■   |   |   | ■  |                           |             |
| UROS     |                            | ■                 | ■                     | ■   |   |   | ■  |                           | 8 8 7       |
| UROS-CT  |                            | ■                 | ■                     | ■   |   |   | ■  |                           |             |
| UROS-SUB |                            | ■                 | ■                     | ■   |   |   | ■  |                           |             |

**FULL  
CENTRALIZER  
PRODUCT  
RANGE**