

QUANTUM Shear-Type Anchor Latch

Provides a positive surface indication that the seal assembly is correctly positioned in the polished bore receptacle and eliminates production seal movement

APPLICATIONS

- Single- or multiple-zone completions
- Intelligent completions

BENEFITS

- Provides positive indication of proper seal location in the sealbore
- Simplifies operations and saves rig time
- Enhances reliability

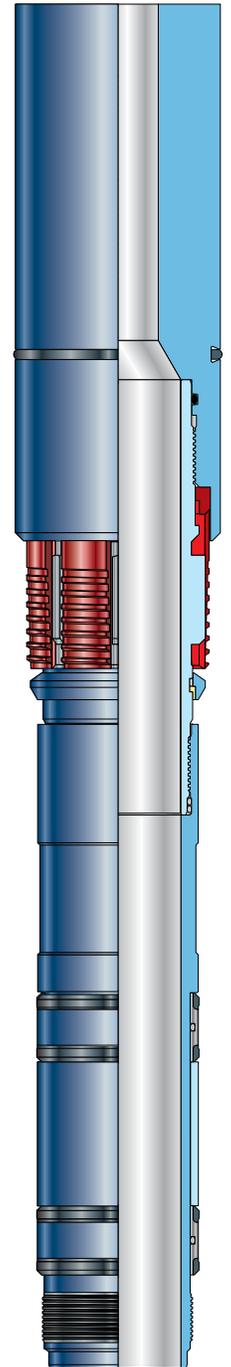
FEATURES

- Debris-tolerant standard bonded seals
- Seal movement prevention
- Easy setting and release procedures
- NACE MR0175-compliant materials
- Higher-performance seals for hostile environments
- Snap-in/shear-out design

The QUANTUM* gravel-pack packer shear-type anchor latch is run with a production seal assembly and is connected to the packer or polished bore receptacle (PBR) in the same manner as a standard anchor latch. Once connected to the packer, this latch does not allow seal movement during normal changes in temperature and pressure. If stresses exceed a predetermined value, a shear ring parts, allowing the latch assembly to release and the seals to move.

Retrieval of the shear-type anchor latch is accomplished with a straight upward pull on the tubing in excess of the release mechanism's shear ring value. The ring shears and releases the anchor's latch mechanism. This releasing mechanism is ideal for completions where tubing rotation is prohibited.

The QUANTUM shear-type anchor latches are manufactured from materials that comply with NACE MR0175 standards for sulfide stress cracking-resistant metallic materials and are fitted with nitrile bonded seals. Viton®, Aflas®, and chevron seals are available on request for hostile conditions such as high-pressure, high-temperature, and H₂S environments.



QUANTUM shear-type anchor latch.

QUANTUM Shear-Type Anchor Latch Specifications

Size, [†] in [mm]	Max. OD, in [mm]	Min. ID, in [mm]	Pressure Rating, [‡] psi [kPa]	Standard Top Connection
5.000 × 2.688 [127.0 × 68.3]	3.500 [88.9]	1.950 [49.5]	9,000 [62,055]	2.375
5.500 × 3.000 [139.7 × 76.2]	3.820 [97.0]	2.350 [59.7]	7,000 [48,265]	2.875
7.000, 7.625 × 3.250 [177.8, 193.7 × 82.6]	4.630 [117.6]	2.410 [61.2]	9,100 [62,745]	2.875
7.000, 7.625 × 4.000 [177.8, 193.7 × 101.6]	5.290 [134.4]	3.040 [77.2]	8,800 [60,676]	4.000
9.625 × 4.750 [244.5 × 120.7]	6.000 [152.4]	3.500 [88.9]	8,600 [59,297]	3.500
9.625 × 6.000 [244.5 × 152.4]	7.000 [177.8]	4.870 [123.7]	5,500 [37,923]	5.500

[†] Other sizes are available on request. Contact your local Schlumberger representative.

[‡] Values shown are for 80,000-psi [551,600-kPa] material derated for 250 degF [121 degC] with a 20% safety factor.