

QUANTUM Anchor Latch Assembly

Provides a positive surface indication that the seal assembly is correctly positioned in the polished bore

APPLICATIONS

- Single- or multiple-zone completions

BENEFITS

- Design provides positive indication of proper seal location in the sealbore
- Simplifies operations
- Saves rig time
- Enhances reliability

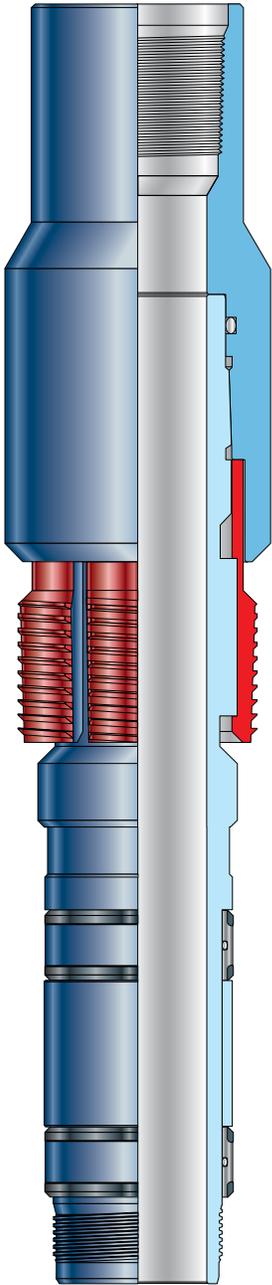
FEATURES

- Easy sting-in and release procedures
- Debris-tolerant standard bonded seals
- Prevention of seal movement
- Manufactured from materials that comply with NACE MR0175 standards
- Nitrile bonded seals
- Higher-performance seals available for hostile environments

The QUANTUM* gravel-pack packer anchor latch assembly positions the seal units in the polished bore of the packer at the bottom of the available stroke. With a slight amount of set-down weight, the anchor latch will snap into the top thread of the packer mandrel or polished bore receptacle. This feature allows an upward pull to be applied to the tubing string to positively confirm proper location and operation.

To release the anchor latch, an upward pull of 1,000 lbf [454 kg] at the latch, combined with 12 complete right-hand turns of the tubing at the latch, releases the anchor. The releasing mechanism of the anchor makes it ideal for completions where tubing movement is not desirable.

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



QUANTUM Anchor Latch Assembly 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]	7.000 [177.8]	3.280 [83.3]	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
9.625 × 7.500 [244.5 × 190.5]	8.500 [215.6]	6.031 [153.2]	5,000 [34,475]	7.000

[†] 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.

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