

QUANTUM Snap Latch Assembly

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

APPLICATIONS

- Single- or multiple-zone completions
- Preferred locator for long, multiple-string seal assemblies

BENEFITS

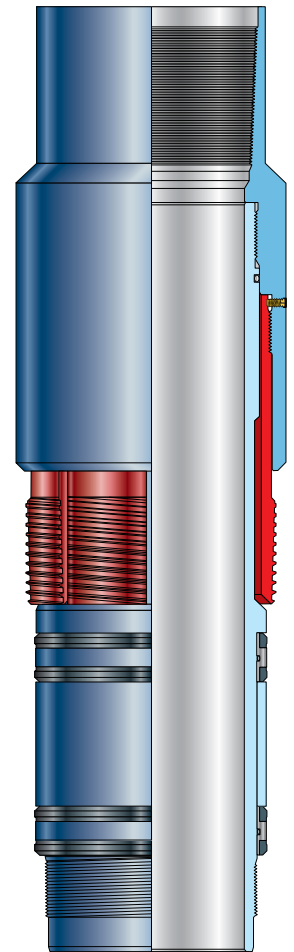
- Simplifies operations to save rig time
- Provides indication of proper seal location in the sealbore
- Enhances reliability

FEATURES

- Easy sting-in and release procedures
- Limited seal movement
- Suitable for applications where the seals are allowed to float
- Compatible with most sealbore packers and polished bore receptacles
- Manufactured from materials that comply with NACE MR0175 standards
- High-performance seals available for more hostile environments

The QUANTUM* gravel-pack packer snap latch assembly's no-go positions the seal units in the polished bore of the packer at the bottom of the available stroke. The latch snaps into the top thread of the packer mandrel with a slight amount of set-down weight. This feature allows a slight upward pull to be applied to the tubing string to positively confirm seal location. By pulling 5,000 lbf [2,267.5 kg] over string weight, a positive indication of proper seal location in the sealbore is provided. Additional overpull of 15,000 lbf [6,802.5 kg] snaps the snap latch out of the packer top thread.

Standard snap 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 on request for hostile conditions such as high-pressure, high-temperature, and H₂S environments.



QUANTUM snap latch assembly.

QUANTUM Snap 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]	7,300 [50,334]	2.875
7.000, 7.625 × 3.250 [177.8, 193.7 × 82.6]	4.770 [121.2]	2.350 [59.7]	9,700 [66,882]	2.875
7.000, 7.625 × 4.000 [177.8, 193.7 × 101.6]	5.300 [134.6]	3.030 [77.0]	8,400 [57,918]	4.000
9.625 × 4.750 [244.5 × 120.7]	7.000 [177.8]	3.280 [83.3]	8,800 [60,676]	3.500
9.625 × 6.000 [244.5 × 152.4]	7.000 [177.8]	4.780 [121.4]	6,300 [43,439]	5.500
9.625 × 7.500 [244.5 × 190.5]	8.500 [215.6]	6.031 [153.2]	6,000 [41,370]	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.