

## Millout Extensions

Provide a larger ID below QUANTUM and QL series packers to protect the seals and to accept the packer retrieving sub of a milling tool

### APPLICATIONS

- Completion with permanent packer as production packer
- Horizontal completion with stand-alone sand screens
- Spacer packers
- Isolation packers

### BENEFITS

- Gives economical seal protection
- Provides larger bore to accept packer retrieving sub of milling tool

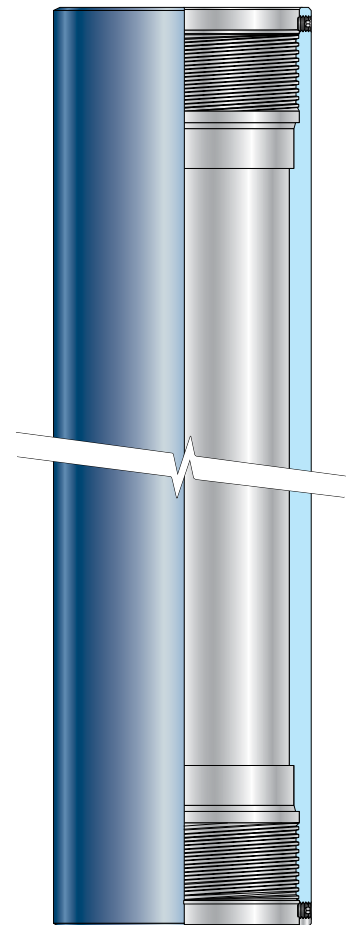
### FEATURES

- Robust and durable construction
- Manufactured from materials that comply with NACE MR0175 standards

QUANTUM\* millout extensions are used where floating seals are required in completions using QUANTUM series retrievable sealbore packers. Standard millout extensions are special tubing joints that are used with the QL series packers.

Millout extensions provide a larger ID below the packer to protect the seals. The larger ID is also useful when a packer milling and retrieving tool is employed. The extension ID must be greater than the packer ID to furnish an adequate shoulder for retrieving the packer after the milling procedure is completed. Extensions are assembled onto the lower end of QL series millable sealbore packers or QUANTUM retrievable sealbore packers and run into the hole.

QUANTUM millout extensions are supplied in a box-by-box configuration; standard millout extensions are supplied in pin-by-pin configurations. Both are supplied in either 6- or 10-ft [1.8- or 3.0-m] lengths and are manufactured from materials that comply with NACE MR0175 standards for sulfide stress cracking-resistant metallic materials.



Millout extensions.

### Millout Extension Specifications

Size, <sup>†</sup> in [mm]	Max. OD, in [mm]	Min. ID, in [mm]	Length, ft [m]	Pressure Rating, psi [kPa]
5.00 × 2.688 [127.0 × 68.3]	3.940 [100.0]	2.688 [68.3]	6.0 [1.83]	6,000 [41,370]
5.500 × 3.000 [139.7 × 76.2]	4.370 [111.0]	3.000 [76.2]	6.0 [1.83]	6,000 [41,370]
7.000, 7.625 × 3.250 [177.8, 193.7 × 82.6]	5.250 [133.4]	4.000 [101.6]	6.0 [1.83]	6,000 [41,370]
7.000, 7.625 × 4.000 [177.8, 193.7 × 101.6]	4.983 [126.6]	4.550 [115.5]	6.0 [1.83]	6,000 [41,370]
9.625 × 4.750 [244.5 × 120.7]	6.422 [163.1]	5.900 [149.9]	6.0 [1.83]	6,000 [41,370]
9.625 × 6.000 [244.5 × 152.4]	7.630 [193.8]	6.620 [168.1]	6.0 [1.83]	6,000 [41,370]

<sup>†</sup> Other sizes are available on request. Contact your local Schlumberger representative.