

MUDGARD

Workstring filter

APPLICATIONS

- BHA protection
- Performance drilling
- Interception, retention and removal of rock, scale, and minerals

BENEFITS

- Protects BHA equipment
- Removes and retains fluid-borne ferrous debris
- Increases service interval of drilling BHA
- Enables single-trip wireline access source retrieval
- Provides overpressurization protection
- Standalone addition to BHA
- Simple to deploy and run

FEATURES

- Single-piece, high-strength collar
- Large debris capacity
- Contingency central bypass available should flow path plug
- Standard BHA connections



The MUDGARD* workstring filter can be used in all drilling applications to prevent debris-related hazards and reduce the likelihood of NPT. MUDGARD filter is cost-effective protection for BHAs that have impeller or modulated flow control. The MUDGARD filter is a proactive measure in the protection of drilling assemblies from rock, scale, sulphates, carbonates, silicates, and any other insoluble material that may cause damage.

The MUDGARD filter has been engineered by studying computational fluid dynamics to maximize debris retention while assuring high volume throughput with minimal pressure drop. The internal dual filter screen is highly resistant to erosion. The filter can also be run in conjunction with other throughbore wireline-accessible drilling tools, such as the WELL COMMANDER* ball-activated drilling circulating valve and the MAGNOSHIELD* drillstring magnet.

Designed with a single-piece collar carrying the dual filter screen, the MUDGARD is complete with a contingency central bypass that facilitates wireline chemical source recovery in a single trip. The central bypass has also been engineered to give overpressurization protection should the filter become overloaded with solids and debris.

Specifications

Drilling hole size range	5 ⁵ / ₈ –6 ³ / ₄	8 ¹ / ₄ –10 ⁵ / ₈	10 ¹ / ₂ –14 ³ / ₄	≥12 ¹ / ₄
Model	475	675	825	950
Size	4 ³ / ₄ in	6 ³ / ₄ in	8 ¹ / ₄ in	9 ¹ / ₂ in
Connections	NC 38 Box X Pin	NC 50 Box X Pin	6 ⁵ / ₈ -in Reg Box X Pin	7 ⁵ / ₈ -in REG Box X Pin
Maximum TFA	11.3 in ² [7,290 mm ²]	16.9 in ² [10,903 mm ²]	25.9 in ² [16,709 mm ²]	30.3 in ² [19,548 mm ²]
Debris capacity	242 in ³ [3.96 L]	309 in ³ [5.06 L]	565 in ³ [9.25 L]	783 in ³ [12.83 L]

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