

# Tornar® BOP Cleaner

## Clean and solids-free BOP

Advanced vortex cleaning technology for BOPs

The Tornar® BOP Cleaner removes wellbore debris from blow out preventer cavities safely, rapidly and reliably. Tornar® flow ports create a high-velocity fluid vortex which combines with powerful proprietary magnets to extract debris from ram and annular cavities—without harming the BOP.

### Benefits

- Rapid and effective BOP cleaning
- Reduced BOP maintenance and non productive time
- Higher success rate and efficiency of BOP performance testing
- Cleans even deep cavities

### Applications

- Clearing debris from BOP rams and cavities

### Features

- Tornar® technology creates powerful vortex suction effect
- Tornar® industrial magnets ensure maximum metallic debris extraction
- Configured to suit BOP requirements
- Standard drill pipe connection
- One piece mandrels
- Non-rotating stabilizer and magnet
- Fishing magnet can be fitted at the bottom of the string to add further cleaning assurance

### Specifications

Cleaner string size, inch [mm]	13.375 [339.7]	17.45 [443.2]
BOP size, inch [mm]	13.625 [346]	18.75 [476.3]
Recommended pump rate	6,500	6,500
Min. recommended pump rate, lpm	3,500	3,500
Material (main body)	AISI 4145M	AISI 4145M
Max. working temp, degC [degF]	150 [302]	150 [302]
Max. OD, inch [mm]	13.375 [339.7]	17.45 [443.2]
Drift ID, inch [mm]	2.83 [71.9]	3.5 [88.9]
Tool joint OD, inch [mm]	6.535 [166]	7.25 [184.2]
Connections	NC-50 b/p	5 1/2" FH b/p
Magnet rods	6pcs @ 360°	8pcs @ 360°

Specifications may be subject to change

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