

POSEIDON 3078 Bearing Assembly

The POSEIDON 3078 Bearing Assembly is designed, manufactured, and certified to API 16RCD specifications and guidelines. This Bearing Assembly is a significant component in Beyond Energy's Rotating Control Device (RCD).

The Bearing Assembly creates a pressure-tight barrier between fluid returns and personnel on the rig floor, safely containing annular fluids under pressure while the drill pipe is rotating and diverting fluids below the rig floor to the returns system without interrupting drilling operations. This superior design ensures a reduced number of bearing and element changeouts.

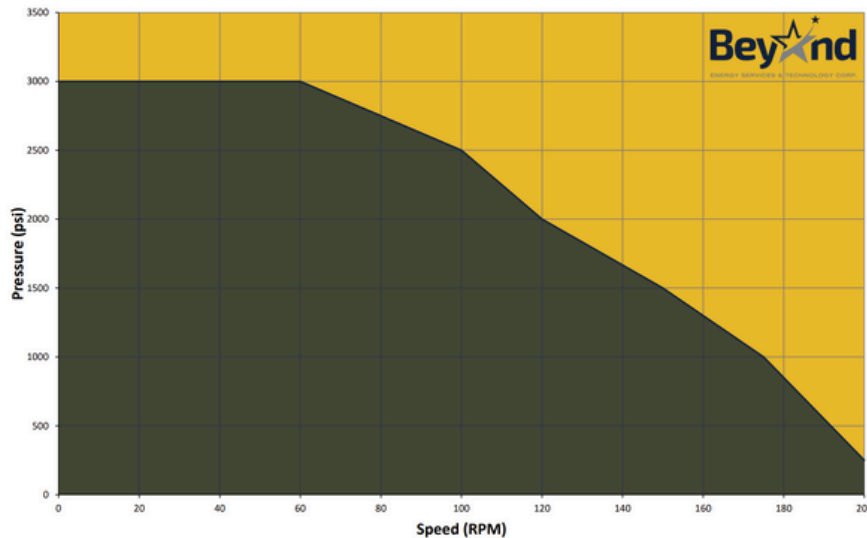
Applications

- Managed Pressure Drilling
- Underbalanced Drilling
- Pressurized Mud Cap Drilling
- Containment of wellbore returns.
- Extended Reach wells
- Geothermal wells

Features and Accessories

- 5,000 psi Static Rated
- 3,000 psi Dynamic Rated
- Max Rating of 200 rpm
- 7 3/4" Passthrough
- Dual Sealing Element Capable (DUSA)
- Drill Pipe Conveyed Running /Retrieving Tools
- Designed to have maintenance performed onsite
- Operates with ATLAS Class Sealing Elements for 4 1/2" - 5 7/8" drill pipe
- Optional use of TITAN Class Sealing Elements for 2 7/8" - 5 7/8" drill pipe
- NACE-MRO175 compliant
- Manufactured in accordance with API Q1, ISO 9001:2015, and API 16RCD
- API 16RCD 0027 Monogrammed

ARES 3078 / POSEIDON 3078 Maximum Dynamic Operational Limits



POSEIDON 3078

POSEIDON 3078 Bearing Assembly Specifications

Physical Data		
Maximum Outer Diameter	482.1 mm	18.98 in.
Pass through Diameter	196.9 mm	7.75 in.
Weight	476 kg	1,049 lbs.
Height without ATLAS Class Sealing Element	725.4 mm	28.56 in.
Height with ATLAS Class Sealing Element	1,016 mm	40.0 in.
Internal Fluid		
Bearing Oil Type	Chevron Meropa Synthetic EP 320	
Bearing Oil Capacity	3 Litres	0.8 Gallons

Operating Parameters		
Pressure Ratings		
Static Pressure Rating	34,473 kPa	5,000 psi
Dynamic Pressure Rating		
@60 RPM	20,684 kPa	3,000 psi
@100 RPM	17,237 kPa	2,500 psi
@150 RPM	10,342 kPa	1,500 psi
@200 RPM	1,724 kPa	250 psi
Maximum RPM	200 RPM	
Maximum Temperature	85° C	185° F
Minimum Temperature	5° C	41° F
Stripping Speeds vs Pressure with ATLAS Elements		
ATLAS-HP Sealing Element	10 m/min. @ 7,000 kPa	33 ft/min. @ 1,015 psi
	20 m/min. @ 6,000 kPa	66 ft/min. @ 870 psi
	30 m/min. @ 5,000 kPa	100 ft/min. @ 725 psi
Maximum Stripping Speed	30 m/min.	100 ft/min.