

ARES 1578 Bearing Assembly

The ARES 1578 Bearing Assembly is designed, manufactured, and certified to API 16RCD specifications and guidelines. The ARES 1578 is Beyond's "WORKHORSE" of Bearing Assemblies. This ARES Bearing Assembly is a significant component in Beyond Energy's Rotating Control Device (RCD), providing clients with high service quality and low OpEx. 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.

Applications

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

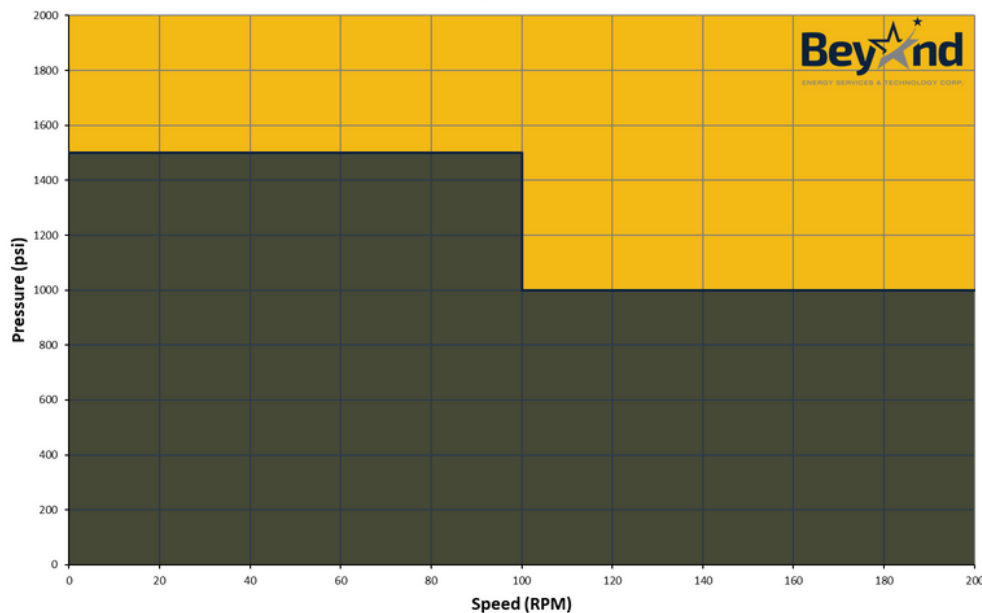
Features and Accessories

- 3,000 psi Static Rated
- 1,500 psi Dynamic Rated
- Max Rating of 200 rpm
- 7 3/4" Passthrough
- Passes through 17 1/2" Rotary table
- Uses TITAN Class sealing elements for 2 7/8" - 5 7/8" drill pipe
- NACE-MR0175 compliant
- Manufactured in accordance with API Q1, ISO 9001:2015, and API 16RCD
- API 16RCD 0027 Monogrammed



ARES 1578

ARES 1578 Maximum Dynamic Operational Limits



ARES 1578 Bearing Assembly Specifications

Physical Data		
Maximum Outer Diameter	438.2 mm	17.25 in.
Pass through Diameter	196.9 mm	7.75 in.
Weight	191 kg	422 lbs
Height without Element	333 mm	13.1 in.
Height with TITAN Class Sealing Element	650 mm	25.6 in.
Internal Fluid		
Bearing Oil Type	Chevron Meropa Synthetic EP 320	
Bearing Oil Capacity	1.5 Litres	0.4 Gallons

Operating Parameters		
Pressure Ratings		
Static Pressure Rating	20,684 kPa	3,000 psi
Dynamic Pressure Rating @ 60 RPM	10,342 kPa	1,500 psi
Dynamic Pressure Rating @ 100 RPM	10,342 kPa	1,500 psi
Dynamic Pressure Rating @ 150 RPM	6,894 kPa	1,000 psi
Dynamic Pressure Rating @ 200 RPM	6,894 kPa	1,000 psi
Maximum RPM	200 RPM	
Maximum Temperature	85° C	185° F
Minimum Temperature	5° C	41° F
Stripping Speeds vs Pressure with TITAN Elements		
All Drill Pipe Sizes	10 m/min. @ 10,342 kPa	33 ft/min. @ 1,500 psi
	20 m/min. @ 9,342 kPa	66 ft/min. @ 1,355 psi
Maximum Stripping Speed	30 m/min. @ 8,343 kPa	100 ft/min. @ 1,210 psi

