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ENERGY SERVICES & TECHNOLOGY CORP.



TITAN Series Rotating Control Device (RCD)

FOR USE IN OFFSHORE AND LAND APPLICATIONS

TITAN Series Rotating Control Device (RCD)



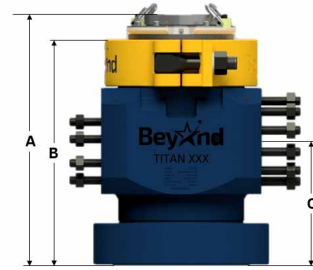
TITAN 3



TITAN 5



TITAN Series Rotating Control Device (RCD)



A = Overall Height
B = Body Height
C = Center of Outlets

Main Specifications - TITAN Series Body

Series	TITAN
Inside Diameter	Dictated by ID of Lower Flange
Bottom Inlet	Upon Request (see Dimensional Data)
Side Outlet	7 1/16" 5M API Flange (Studded)
Additional Side Outlet (TITAN 5 – Standard, TITAN 3 – Optional)	4 1/16" 5M API Flange (Studded)
Equalize/Bleed Down Outlet	2 1/16" 5M API Flange (Studded)
Pressure Rating	TITAN 5 / ORION 5 Body – 5,000 psi (34.5 MPa) TITAN 3 Body – 3,000 psi (20.7 MPa)
API 16RCD Monogram	No. 0027

Dimensional Data

TITAN 3 Assembly (3,000 psi – 20.7 MPa)



Bottom Flange* ‡	Overall Height with ARES 1578 Bearing Assembly	Body Height	Center of Outlets
13 5/8" 5M	37.4" (950 mm)	33.2" (843 mm)	19.1" (485 mm)
11" 5M	36.9" (937 mm)	32.7" (831 mm)	18.5" (470 mm)
11" 3M	35.2" (894 mm)	31.0" (787 mm)	16.8" (426 mm)
9" 5M	35.7" (907 mm)	31.5" (800 mm)	17.3" (438 mm)
7 1/16" 5M	35.2" (894 mm)	31.0" (787 mm)	16.8" (426 mm)
13 5/8" 5M Short	32.4" (825 mm)	28.2" (716 mm)	15.9" (404 mm)

‡ Shorter TITAN 3 bodies can be manufactured on special request
Internal ID of bodies Xylan® coated as standard

TITAN 5 Assembly** (5,000 psi – 34.5 MPa)



Bottom Flange*	Overall Height with ARES 1578 Bearing Assembly	Body Height	Center of Outlets
13 5/8" 5M	37.8" (960 mm)	34.0" (864 mm)	18.8" (478 mm)
11" 5M	37.8" (960 mm)	34.0" (864 mm)	18.8" (478 mm)

* API Rotating flanges. Please inquire for Overall Height with ARES 3078 and ARES 3090. ** The TITAN 5 may also be used in offshore applications.
All Beyond Energy RCD Products are developed in accordance with API Spec 16RCD.

ARES Series Bearing Assembly



ARES 1578



ARES 3078



ARES 3090



TITAN Series Rotating Control Device (RCD)



ARES 1578



ARES 3078



ARES 3090

Main Specifications – ARES Series Bearing Assembly

	ARES1578 Bearing Assembly	ARES 3078 Bearing Assembly*	ARES 3090 Bearing Assembly*
Maximum Outer Diameter	17 1/4" (438 mm)	17 1/4" (438 mm)	17 1/4" (438 mm)
Passthrough Diameter	7 3/4" (197 mm)	7 3/4" (197 mm)	9" (229 mm)
Total Height in TITAN 5	37.8" (960 mm)	51.6" (1.31 m)	56.9" (1.45 m)
Total Height in ORION 5	37.8" (960 mm)	51.6" (1.31 m)	56.9" (1.45 m)
Static Pressure Rating	3,000 psi (20.7 MPa)	5,000 psi (34.5 MPa)	5,000 psi (34.5 MPa)
Dynamic Pressure Rating	@ 60 RPM	1,500 psi (10.3 MPa)	3,000 psi (20.7 MPa)
	@ 100 RPM	1,500 psi (10.3 MPa)	2,500 psi (17.2 MPa)
	@ 150 RPM	1,000 psi (6.9 MPa)	1,500 psi (10.3 MPa)
	@ 200 RPM	1,000 psi (6.9 MPa)	**
Maximum RPM	200 RPM	200 RPM	200 RPM

*ARES Bearings are compatible with TITAN 3, TITAN 5, and ORION 5 Bodies

** Ongoing Evaluation

Available with the following Coating Options:

- Phosphate
- Liquid Nitriding / QPQ
- Xylan ®

Applications

- Managed Pressure Drilling
- Underbalanced Drilling
- Geothermal Wells
- Pressurized Mud Cap Drilling
- Containment of wellbore returns

Features and Accessories

- Logging adaptor available in 7 1/16" 5M and 9" 5M
- Comes with securable transport skid
- Additional rotating or fixed flange options
- Manufactured in accordance with API Q1, ISO 9001:2015, and API 16RCD

All Beyond Energy RCD Products are developed in accordance with API Spec 16RCD

Dual Upper Stripper Assembly (DUSA)



**TITAN 5 WITH
ARES 3078 DUSA**



**TITAN 5 WITH
ARES 3090 DUSA**



Dual Upper Stripper Assembly (DUSA)

Main Specifications – ARES Series Bearing Assembly with Dual Sealing Element

		ARES 3078* Bearing Assembly	ARES 3090* Bearing Assembly
Maximum Outer Diameter		17 1/4" (438 mm)	17 1/4" (438 mm)
Passthrough Diameter		7 3/4" (197 mm)	9" (229 mm)
Overall Height in TITAN 5		71.0" (1.80 m)	74.7" (1.90 m)
Overall Height in ORION 5		71.0" (1.80 m)	74.7" (1.90 m)
Weight (not including elements)		1,505 lbs (683 kg)	1,705 lbs (798 kg)
Static Pressure Rating		5,000 psi (34.5 MPa)	5,000 psi (34.5 MPa)
Dynamic Pressure Rating	@ 60 RPM	3,000 psi (20.7 MPa)	3,000 psi (20.7 MPa)
	@ 100 RPM	2,500 psi (17.2 MPa)	2,330 psi (16.1 MPa)
	@ 150 RPM	1,500 psi (10.3 MPa)	1,500 psi (10.3 MPa)
	@ 200 RPM	**	250 psi (1.7 MPa)
Maximum RPM		200 RPM	200 RPM

*Dynamic Pressure rating is determined by the Bearing Assembly

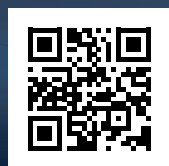
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We do **Managed Pressure Drilling.**





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