

# REGIONAL MARINE & ENGINEERING SERVICES



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**E**XPERT

**S**TURDY





# **OUR MISSION**

**To inspire excellence by empowering our partners,  
so that we may build a better world together.**

# OUR CLIENTS



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# THE MPD STORY

## The Rotating Control Device (RCD)

- RMES' Initial Focus for MPD and UBD Operations

TF-3K RCD MONOGRAMMED  
TO API 16RCD 3RD ED

2015

Inception of In-house development through experience in:

- Engineering
- Manufacturing
- Service

2018

TF-3K VERSION 1 began field trials

2022

Ongoing feedback led to improvement & development of the TF-3K

RESULTING IN CURRENT VERSION 3



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# RCD DEVELOPMENT



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## Customization

Ability to customize RCDs for  
**YOUR** drilling program  
 requirements



## Notable Presentations

- 1) "Complete MPD Rigs: Is this the Future?"  
 IADC/SPE-190099-MS
- 2) "MPD Complete Rigs: Time for Jacks Ups Now"  
 IADC/SPE-209890-MS



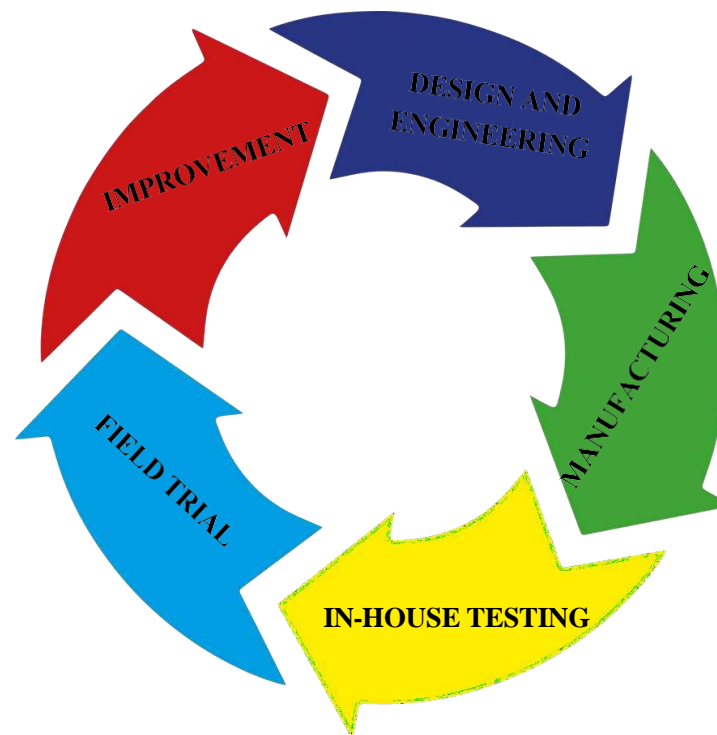
## Industry Involvement

Active Participation in **API committees** and  
**IADC/SPE Conferences**



## Ongoing Testing

Continuous Testing for  
**Advancing Technology,**  
**Robustness and Safe Operation**



# RMES OVERVIEW



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# SUBSEA & SURFACE BOP STACKING SERVICES



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# RMES MACHINE SHOP



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# RMES FABRICATION SHOP



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# FACILITY & EQUIPMENT



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# ASSEMBLY AND TESTING



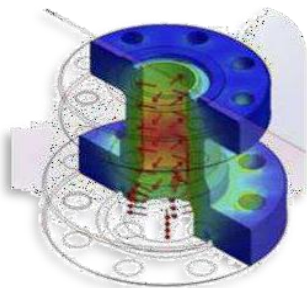
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# API MONOGRAM MANUFACTURING



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# RCD TESTING



## Hydrostatic Dynamic Test

- In-house testing capabilities for:
  - Performance and improvements
  - Limit testing products
- Adheres to API 16RCD 3rd Edition Requirements
- Bearing Life:
  - 2000 hours
- Total Testing Hours
  - >20,000 hours of Rotating Test according to 16RCD



## Drilling Fluid Testing

- Developed in-house mud circulation system for RCD testing in 2018
- Various tests simulate real-life field condition
- >8000 hours of Rotating Test performed with drilling fluid



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API Spec. Q1  
Certified  
Q1-1907



# RMES MPD HISTORY



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Year	Customer	Equipment Type	Certifications/Rules	Fields	Tendered	Ordered
2015	EnSCO	MPD Joint Modification	API 6A, 16C	Offshore		Yes
2016	Halliburton	MPD System Package	API 6A, 16A, 16RCD, 16C, 17D	Offshore	Yes	
2016	Halliburton	RCD System Package	API 6A, 16A, 16RCD	Offshore	Yes	
2017	Halliburton	MPD Manifold	API 6A, 16C	Offshore	Yes	
2018	ADA	RCD Big Bore	API 6A, 16RCD	Land		Yes
2018	ADA	MPD Manifold	API 6A, 16C	Offshore	Yes	
2018	ADA	RCD Low Pressure Head	API 6A, 16RCD	Land		Yes
2018	Sapura E&P	MPD System Package	API 6A, 16A, 16RCD, 16C, 17D	Offshore	Yes	
2018	Seadrill	MPD System Package	API 6A, 16A, 16RCD, 16C, 17D	Offshore	Yes	
2018	Seadrill	MPD DSIT modification	ABS, Guide for Classification and Certification of MPD System	Offshore		Yes
2019	ADA	RCD Big Bore	API 6A, 16RCD	Land		Yes
2019	ADA	RCD Low Pressure Head	API 6A, 16RCD	Land		Yes
2019	ADA	RCD System Package	API 6A, 16A, 16RCD	Offshore		Yes
2019	Expro	MPD System Package	API 6A, 16A, 16RCD, 16C, 17D	Offshore	Yes	
2019	Expro	MPD Manifold	API 6A, 16C	Offshore	Yes	
2019	Expro	RCD System Package	API 6A, 16A, 16RCD	Offshore	Yes	
2019	Seadrill	MPD DSIT modification	ABS, Guide for Classification and Certification of MPD System	Offshore		Yes
2020	ADA	RCD Hybrid	API 6A, 16A, 16RCD	Offshore		Yes
2020	Expro	MPD System Package	API 6A, 16A, 16RCD, 16C, 17D	Offshore	Yes	
2020	Seadrill	MPD DSIT modification	ABS, Guide for Classification and Certification of MPD System	Offshore		Yes



# RMES MPD HISTORY



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In Q4 2019, RMES deployed our TF-3K RCD to Offshore Indonesia for an MPD exploratory drilling program.

Successful deployment led to additional projects in Onshore and Offshore Indonesia, Thailand, and the Gulf of Mexico.

Developed hybrid CS-3K bearing assembly:

- Successfully deployed 3 units to Mexico for field trial in Q3 2020.
- Installed for 73 hours, Rotating for 45 hours, Stripped for 1354 meters, Drilled 76 meters.



QI  
Quality Improvement  
System



# RMES MPD EQUIPMENT MODIFICATION



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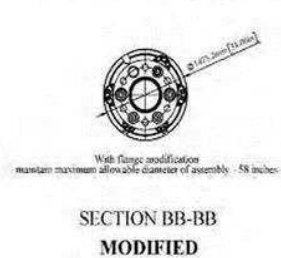
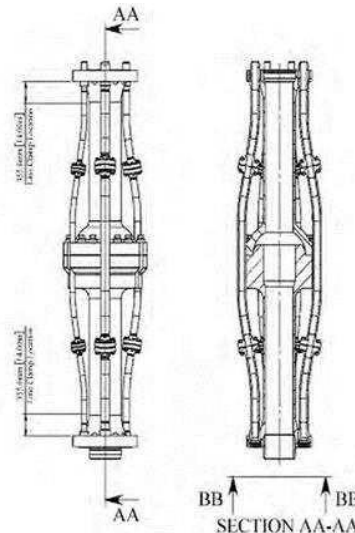
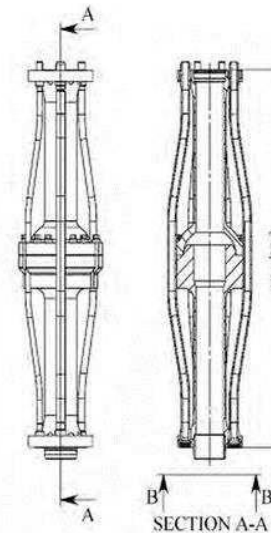


Seadrill sought RMES's expertise to modify/redress their DSITs.

- Facilitate easier packing element replacement onboard the rig.

Improve DSIT handling for easier maintenance.

- Enable onboard maintenance without land-based facility requirements.
- Address challenges with joint splitting and sealing element replacement.



# 18-3/4" TF-3K RCD | JACK-UP INSTALLATION



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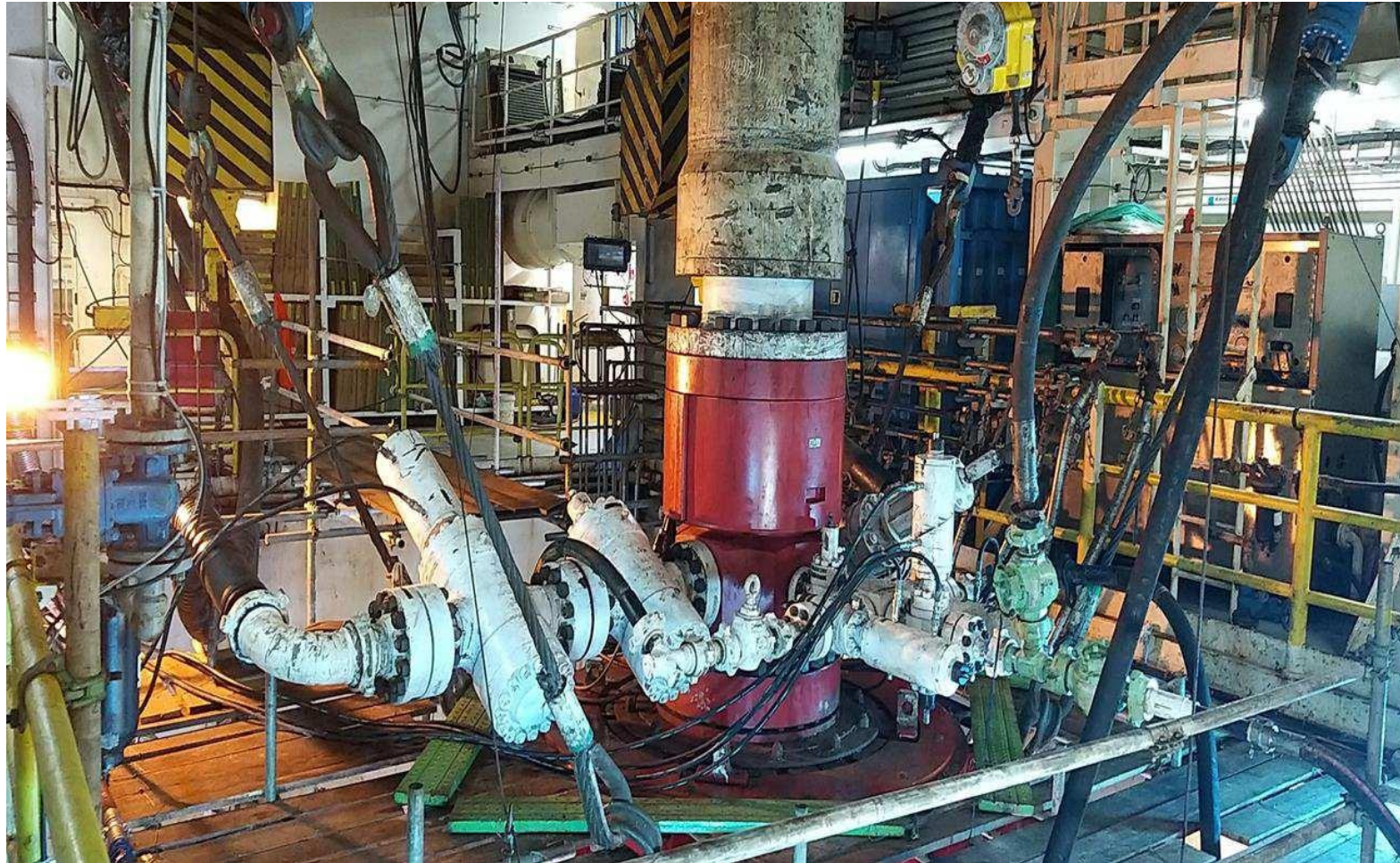
RMES RCD TF-3K  
18-3/4" & 13-5/8" Stack-Up Options  
For Jack-Up and Tender Assisted Rigs  
API 16 RCD certified with accreditation



# 18-3/4" TF-3K RCD | JACK-UP INSTALLATION



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**TF-3K RCD MONOGRAMMED TO API 16RCD 3RD ED**

# 18-3/4" TF-3K RCD | JACK-UP INSTALLATION



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API Spec. Q1  
9th Edition  
Oct 2007



# 18-3/4" TF-3K RCD - RIG-UP



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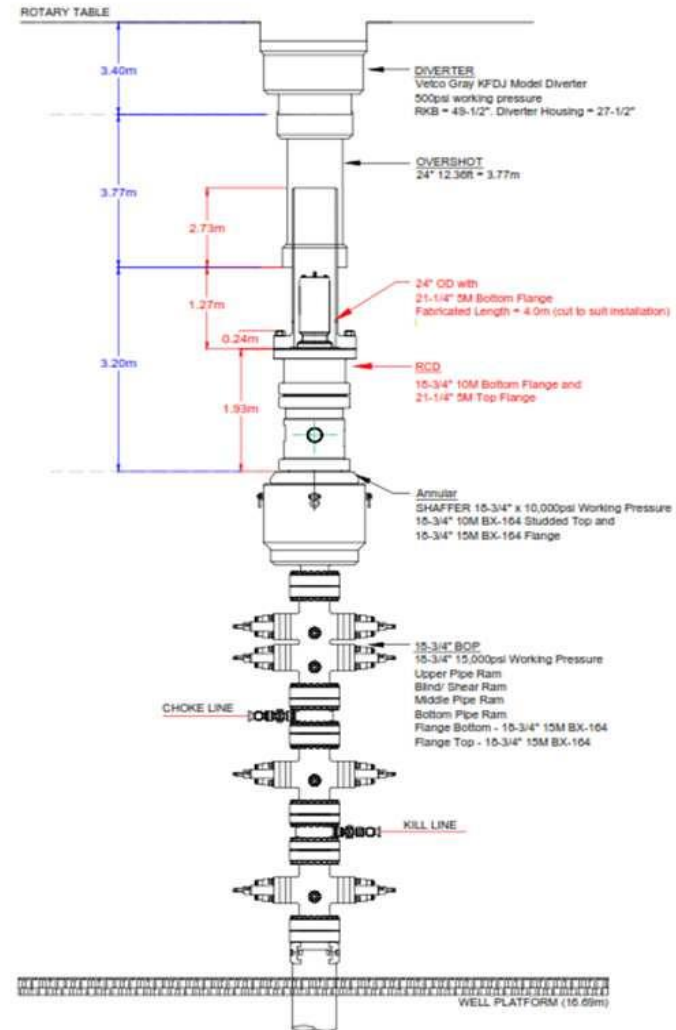
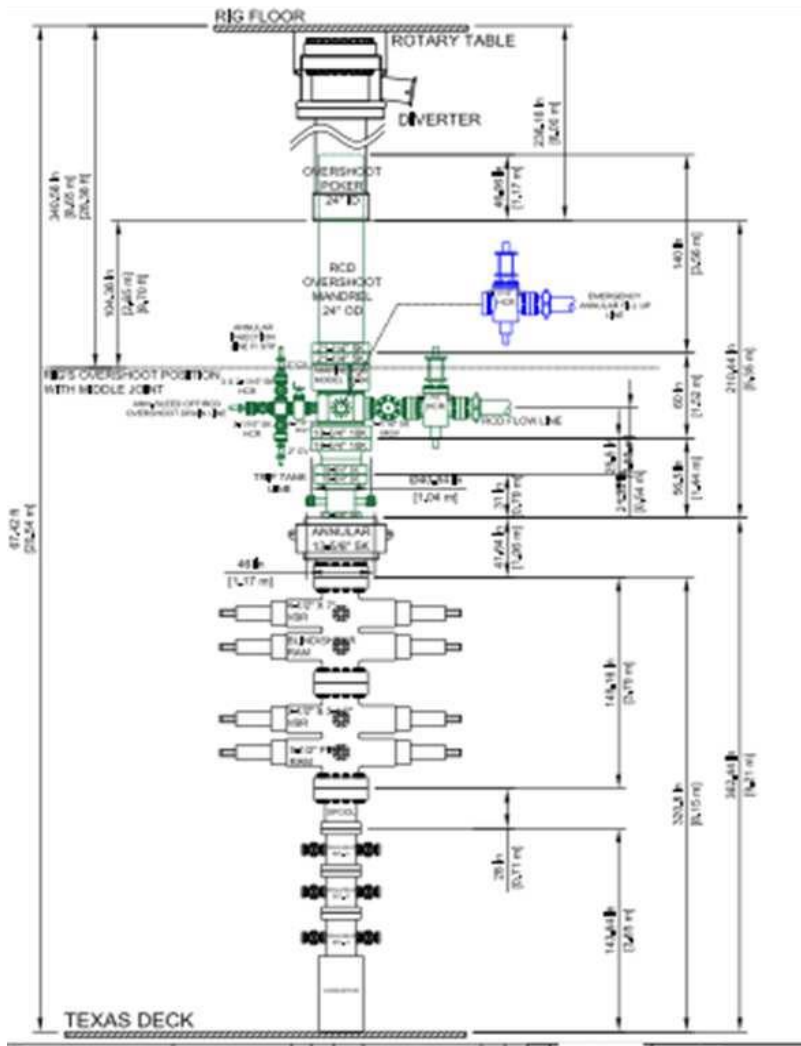
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# 18-3/4" TF-3K RCD - RIG-UP



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# ABOVE TENSION RING RCD STACK-UP



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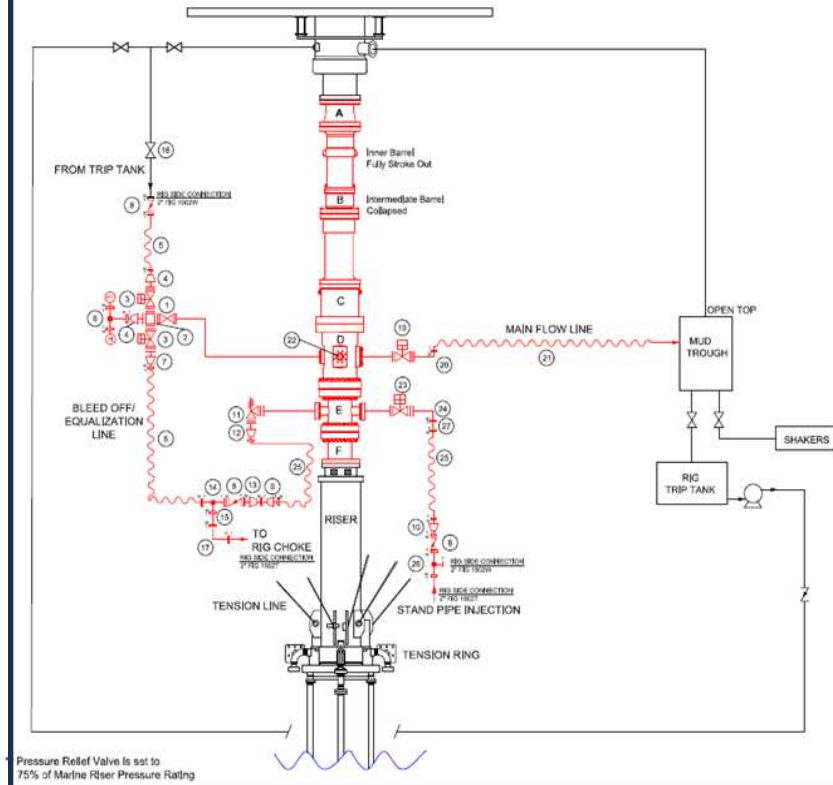
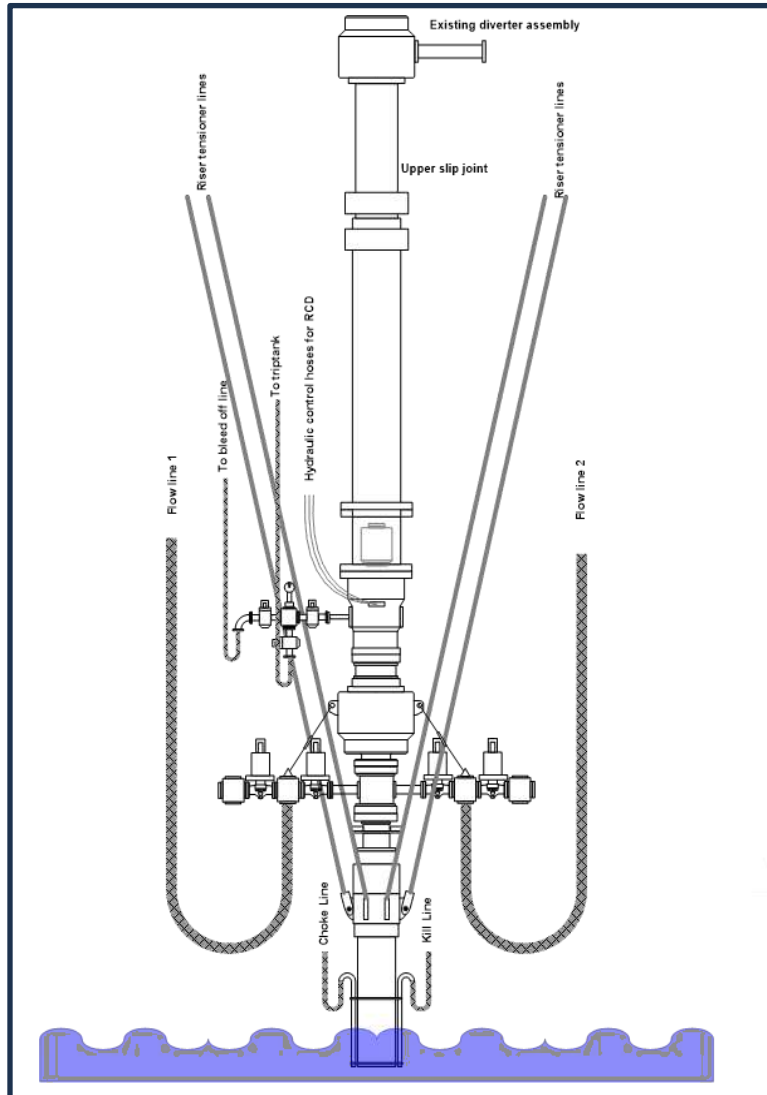
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# TF-3K SYSTEM



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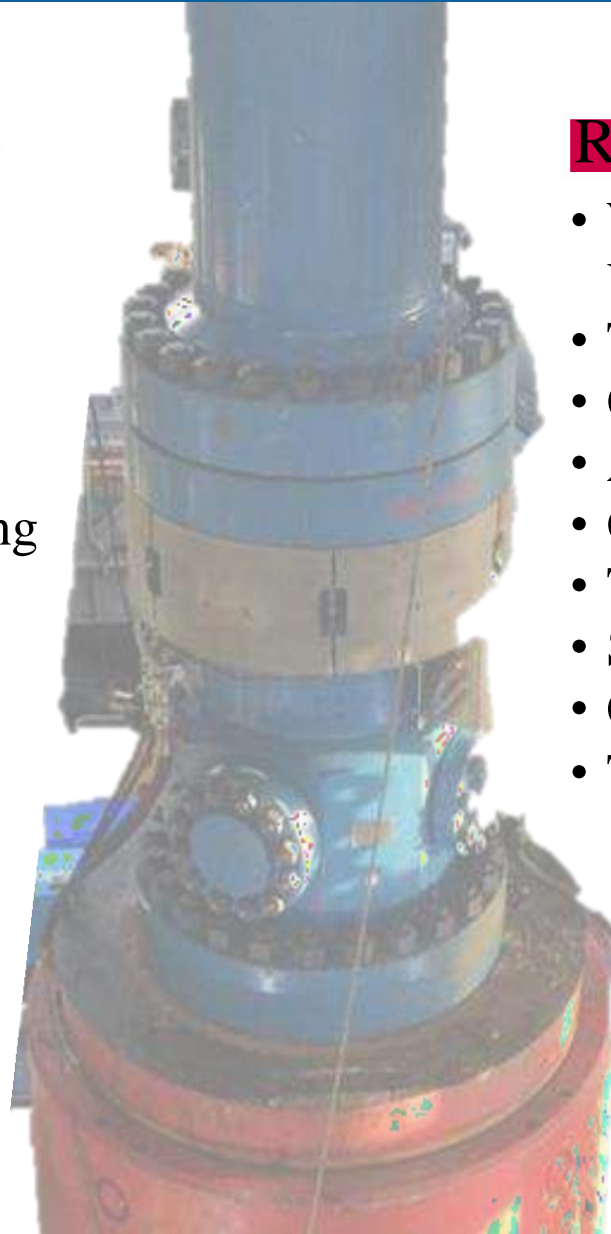


QI  
Quality Improvement



## Equipment Provided

- Housing
- RCD Bearing Assy
- Control Console
- Protective Sleeve
- RCD Running Tool(s)
- Protective Sleeve Running Tool(s)
- Lifting Block
- HPU with Transformer
- Plug Adapter
- Drill Pipe Adapter
- Test Plug Adapter
- Logging Adapter
- Other Special Tool(s)



## RCD Container


- Work Bench and Bench Vise
- Tooling
- Overhead Hoist
- Air Compressor
- Generator
- Test Pump
- Storage Stands
- Chart Recorders
- Test Flanges



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# RMES CERTIFICATIONS (API)



REGISTRATION NO. Q1-1982

## Certificate of Registration

The American Petroleum Institute certifies that the quality management system of  
**REGIONAL MARINE & ENGINEERING SERVICES PTE. LTD.**  
16, Pioneer Sector 1  
Singapore  
Singapore

has been assessed by the American Petroleum Institute and found to be in conformance with the following:

**API Spec Q1, 9th Edition**

The scope of this registration and the approved quality management system applies to the

**Design, Manufacture, Repair, Remanufacture, Machining, Inspection and Testing of Wellhead Equipment, Drill-Through Equipment, Choke and Kill Equipment, Rotating Control Devices, Subsea Components and other Equipment for the Oil and Gas Industry**

API approves the organization's justification for excluding


No Exclusions Identified as Applicable


Effective Date: MARCH 12, 2022  
Expiration Date: MARCH 12, 2025  
Registered Since: MARCH 12, 2013

*Anchel Liddar*  
Senior Vice President of Global Industry Services

This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of API Spec Q1, Specification for Quality Management System Requirements for Manufacturing Organizations in the Petroleum and Natural Gas Industry, and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. This certificate has been issued from API offices located at 200 West 6th Street, Suite 1000, Washington, DC 20005-5011, U.S.A. It is the property of API and must be returned upon request. To verify the authenticity of this certificate, go to [www.api.org/compositelist](http://www.api.org/compositelist).

2021-1041 11.21 (C) API





**Certificate of Authority to use the Official API Monogram**  
License Number: 6A-1360 ORIGINAL

The American Petroleum Institute hereby grants to  
**REGIONAL MARINE & ENGINEERING SERVICES PTE. LTD.**  
16, Pioneer Sector 1  
Singapore  
Singapore

the right to use the Official API Monogram<sup>®</sup> on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1<sup>®</sup> and **API-6A** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **6A-1360**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.


The scope of this license includes the following: Cross-Over Connectors, Blind and Test Flanges, Tees and Crosses, Top Connectors, Adapter Spools and Spacer Spools at PSL 1, PSL 2, PSL 3


QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: MARCH 12, 2022  
Expiration Date: MARCH 12, 2025

To verify the authenticity of this license, go to [www.api.org/compositelist](http://www.api.org/compositelist).

*Anchel Liddar*  
Senior Vice President of Global Industry Services





**Certificate of Authority to use the Official API Monogram**  
License Number: 16A-0315 ORIGINAL

The American Petroleum Institute hereby grants to  
**REGIONAL MARINE & ENGINEERING SERVICES PTE. LTD.**  
16, Pioneer Sector 1  
Singapore  
Singapore

the right to use the Official API Monogram<sup>®</sup> on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1<sup>®</sup> and **API-16A** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **16A-0315**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

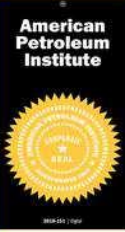
The scope of this license includes the following: Drilling Spools and Spacer Spools and Adapters

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: MARCH 12, 2022  
Expiration Date: MARCH 12, 2025

To verify the authenticity of this license, go to [www.api.org/compositelist](http://www.api.org/compositelist).

*Anchel Liddar*  
Senior Vice President of Global Industry Services





**Certificate of Authority to use the Official API Monogram**  
License Number: 16RCD-0018 ORIGINAL

The American Petroleum Institute hereby grants to  
**REGIONAL MARINE & ENGINEERING SERVICES PTE. LTD.**  
16, Pioneer Sector 1  
Singapore  
Singapore

the right to use the Official API Monogram<sup>®</sup> on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1<sup>®</sup> and **API-16RCD** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **16RCD-0018**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: RCD Packing Elements, RCD Sealing Assemblies, RCD Body


QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: OCTOBER 18, 2022  
Expiration Date: MARCH 12, 2025

To verify the authenticity of this license, go to [www.api.org/compositelist](http://www.api.org/compositelist).

*Anchel Liddar*  
Senior Vice President of Global Industry Services





**Certificate of Authority to use the Official API Monogram**  
License Number: 16C-0393 ORIGINAL

The American Petroleum Institute hereby grants to  
**REGIONAL MARINE & ENGINEERING SERVICES PTE. LTD.**  
16, Pioneer Sector 1  
Singapore  
Singapore

the right to use the Official API Monogram<sup>®</sup> on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1<sup>®</sup> and **API-16C** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **16C-0393**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.


The scope of this license includes the following: Rigid Choke and Kill Lines and Choke and Kill Manifold Buffer Chamber

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: MARCH 12, 2022  
Expiration Date: MARCH 12, 2025

To verify the authenticity of this license, go to [www.api.org/compositelist](http://www.api.org/compositelist).

*Anchel Liddar*  
Senior Vice President of Global Industry Services



# RMES CERTIFICATIONS (ASME)



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**The American Society of Mechanical Engineers**

**CERTIFICATE OF AUTHORIZATION**

The ASME company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below, in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark as a seal of approval is granted by ASME. Authorization is subject to the conditions of the agreement set forth in the application. See application stamping on the ASME Single Certification Mark for terms, conditions and restrictions with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:  
**REGIONAL MARINE & ENGINEERING SERVICES PTE. LTD.**  
No. 16, Pioneer Sector 1,  
628227 Singapore

SCOPE:  
Manufacture and assembly of pressure vessels at the above location and field sites controlled by the above location

ASME DESIGNER: May 16, 2024  
P/000001 April 23, 2027  
C-01 HEALTHY NUMBER: 61582

*David L. Jenkins* President/Chair, Conformity Assessment  
*Matthew Hargrave* Senior Director, Engineering Operations

**The American Society of Mechanical Engineers**

**CERTIFICATE OF AUTHORIZATION**

The ASME company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below, in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark as a seal of approval is granted by ASME. Authorization is subject to the conditions of the agreement set forth in the application. See application stamping on the ASME Single Certification Mark for terms, conditions and restrictions with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:  
**REGIONAL MARINE & ENGINEERING SERVICES PTE. LTD.**  
No. 16, Pioneer Sector 1,  
628227 Singapore

SCOPE:  
Manufacture of pressure vessels at the above location and field sites controlled by the above location (this authorization does not cover imported products)

ASME DESIGNER: May 16, 2024  
P/000001 April 23, 2027  
C-01 HEALTHY NUMBER: 61582

*David L. Jenkins* President/Chair, Conformity Assessment  
*Matthew Hargrave* Senior Director, Engineering Operations

**The American Society of Mechanical Engineers**

**CERTIFICATE OF AUTHORIZATION**

The ASME company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below, in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark as a seal of approval is granted by ASME. Authorization is subject to the conditions of the agreement set forth in the application. See application stamping on the ASME Single Certification Mark for terms, conditions and restrictions with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:  
**REGIONAL MARINE & ENGINEERING SERVICES PTE. LTD.**  
No. 16, Pioneer Sector 1,  
628227 Singapore

SCOPE:  
Manufacture of Class 3 and Class 4 pressure vessels at the above location and field sites controlled by the above location

ASME DESIGNER: May 16, 2024  
P/000001 April 23, 2027  
C-01 HEALTHY NUMBER: 61582

*David L. Jenkins* President/Chair, Conformity Assessment  
*Matthew Hargrave* Senior Director, Engineering Operations

**THE NATIONAL BOARD OF BOILER & PRESSURE VESSEL INSPECTORS**

**Certificate of Authorization**

This is to certify that  
**REGIONAL MARINE & ENGINEERING SERVICES PTE. LTD.**  
No. 16, Pioneer Sector 1,  
628227 Singapore  
Acceptable Abbreviation: RMES

is authorized to use the "NB" symbol in accordance with the provisions of the National Board Inspection Code and NB-413, Accreditation of "R" Repair Organizations.

All activities within the scope of this Authorization shall be controlled by the above location.

The scope of this Authorization is limited to:

Metallic  
Repairs and Alterations:  
At  
Shop and Field Locations

Certification Number: 10822  
Issue Date: May 13, 2024  
Expiration Date: April 23, 2027  
Executive Director: *[Signature]*

**THE NATIONAL BOARD OF BOILER & PRESSURE VESSEL INSPECTORS**

**Certificate of Authorization to Register**

This is to certify that  
**REGIONAL MARINE & ENGINEERING SERVICES PTE. LTD.**  
No. 16, Pioneer Sector 1,  
628227 Singapore

is authorized to apply the "NB" mark and register boilers, pressure vessels or other pressure retaining items with the National Board.

The scope of Authorization is limited to items manufactured in accordance with:

ASME Designator(s): S, U, U2  
Issue Date: April 23, 2018

This Certificate of Authorization to Register will remain in effect as long as the manufacturing organization holds a valid Certificate of Authorization issued by the American Society of Mechanical Engineers.

Executive Director: *[Signature]*

# RMES CERTIFICATIONS (ISO,IADC)



**R**ELIABLE  
**M**ETICULOUS  
**E**XPERT  
**S**TURDY



## ABS Quality Evaluations Certificate Of Conformance

This is to certify that the Quality Management System of  
**Regional Marine & Engineering Services Pte. Ltd.**  
16 Pioneer Sector 1,  
628427  
Singapore

has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:  
**ISO 9001:2015**  
The Quality Management System is applicable to:

DESIGN & PROVISION OF MARINE, OFFSHORE AND ENGINEERING SERVICES RELATED TO CONSTRUCTION,  
PROJECT MANAGEMENT AND FABRICATION OF STEEL WORKS.

This certificate may be found on the ABS QEC Website (www.abs-qec.com). For certificates issued in the People's Republic of China information may also be found on the CQC website (www.cqc.com.cn).

Certificate No.	25119
Issue/Expiry Date	13 October 2011
Original Approval Date	14 October 1999
Certification Date	10 February 2013
Effective Date	10 October 2023
Expiration Date	10 October 2025
Revision Date	10 October 2023

*Domestic, International, President*



Validity of this certificate is based on the successful completion of the periodic surveillance audits of the management system defined by the above scope and the fulfillment of the requirements set forth by the applicable standards. The certificate is valid only if the management system is maintained in accordance with the applicable standards.

ABS Quality Evaluations, Inc. 25119 Pioneer Sector 1, Singapore 628427, Singapore  
Copyright 2011-2023 ABS Quality Evaluations, Inc. All rights reserved.

## ABS Quality Evaluations Certificate Of Conformance

This is to certify that the Environmental Management System of  
**Regional Marine & Engineering Services Pte. Ltd.**  
16 Pioneer Sector 1,  
628427  
Singapore

has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:  
**ISO 14001:2015**  
The Environmental Management System is applicable to:

DESIGN & PROVISION OF MARINE, OFFSHORE AND ENGINEERING SERVICES RELATED TO CONSTRUCTION,  
PROJECT MANAGEMENT AND FABRICATION OF STEEL WORKS.

This certificate may be found on the ABS QEC Website (www.abs-qec.com). For certificates issued in the People's Republic of China information may also be found on the CQC website (www.cqc.com.cn).

Certificate No.	25408
Issue/Expiry Date	21 March 2012
Original Approval Date	10 October 2013
Certification Date	05 December 2023
Effective Date	10 October 2023
Revision Date	10 October 2023

*Domestic, International, President*



Validity of this certificate is based on the successful completion of the periodic surveillance audits of the management system defined by the above scope and the fulfillment of the requirements set forth by the applicable standards. The certificate is valid only if the management system is maintained in accordance with the applicable standards.

ABS Quality Evaluations, Inc. 25119 Pioneer Sector 1, Singapore 628427, Singapore  
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## ABS Quality Evaluations Certificate Of Conformance

This is to certify that the Occupational Health and Safety Management System of  
**Regional Marine & Engineering Services Pte. Ltd.**  
16 Pioneer Sector 1,  
628427  
Singapore

has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:  
**ISO 45001:2018**  
The Occupational Health and Safety Management is applicable to:

DESIGN & PROVISION OF MARINE, OFFSHORE AND ENGINEERING SERVICES RELATED TO CONSTRUCTION,  
PROJECT MANAGEMENT AND FABRICATION OF STEEL WORKS.

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Certificate No.	25414
Issue/Expiry Date	06 April 2018
Original Approval Date	02 November 2022
Certification Date	02 December 2023
Effective Date	02 November 2023
Revision Date	02 November 2023

*Domestic, International, President*



Validity of this certificate is based on the successful completion of the periodic surveillance audits of the management system defined by the above scope and the fulfillment of the requirements set forth by the applicable standards. The certificate is valid only if the management system is maintained in accordance with the applicable standards.

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## REGIONAL MARINE & ENGINEERING SERVICES

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