PREMIUM CENTRALIZERS

Whether it be vertical, horizontal or ERD wells, cased or open hole applications, our broad selection of centralizers play a key role in reducing torque and drag, achieving zonal isolation, and ensuring long-term wellbore integrity.

FIBER-REINFORCED POLYMER CENTRALIZERS
Rubicon’s EzeeGLIDER and OptiMIZER are the toughest, lowest friction FRP composite centralizers available today. First to market over 15 years ago, continual testing and engineering advancements keep these two outperforming the competition to tackle increasing industry challenges.

EzeeGLIDER®
The EzeeGLIDER is a highly durable, wear-resistant fiber reinforced polymer centralizer that reduces torque and drag and extends the current well construction boundaries on ERD and highly deviated wells. It increases the length of the open hole completion to provide maximum reservoir exposure. The metal end rings add protection when running through window exits or other unexpected obstructions downhole. The tool has demonstrated field proven lower friction coefficients leading to superior drag and rotational torque reduction. It is effective up to 55,000 lbs of axial compressive force.

OptiMIZER™
The OptiMIZER centralizer is a highly economical down-hole centralization product with a low carbon footprint. High abrasion resistant proprietary engineered polymer ensures maximum stand-off at TD. The tools are robust and are designed to meet the challenges of today’s most demanding wells while improving safety by reducing manual handling issues. The OptiMIZER is proven to pass through casing exits and MLT windows without snagging and provides protection to open hole packers on long horizontal deployments such as multi zone fracture stimulation. Available as OptiMIZER HT with a higher temperature rating.

VibroGLIDE™
VibroGLIDE centralizers are a derivative of the highly successful field proven EzeeGLIDER with the added feature of the cam teeth on the centralizer and the cam profiles on the heavy duty stop collars. These features have been tested for wear with applied loads and provide continuous vibration while rotating the casing for extended periods in excess of most casing/liner deployment operations.

RotoGLIDE™
RotoGLIDE casing tools are based on the original EzeeGLIDER, and carry the added feature of drive teeth on the centralizer and drive profiles on the heavy duty stop collars. These features have been tested for wear with applied loads and provide continuous drive while rotating the casing for extended periods in excess of most casing/liner deployment operations. RotoGLIDE centralizers maximize axial drag reduction through string rotation while minimizing torque during deployment and cementing operations, allowing the ERD envelope to be pushed even further.
CENTRALIZERS

Rubicon’s Premier One-Piece Bow Spring Centralizer

The CentURION’s integral design demonstrates field proven superior robustness, optimized stand-off, casing centralization and running force. The unique one-piece design provides higher restoring forces while maintaining flexibility, ultimately increasing stand-off. With higher restoring forces and lower running forces, the CentURION can be used in all hole inclinations—from vertical to horizontal.

WELDED CENTRALIZERS

Type 300 Bow Spring provides uniform annular clearance and is suited for vertical and slightly deviated applications. It minimizes differential sticking and can be rotated or reciprocated with the casing. Also available as slip-on: Type 302.

Type 350 Close Tolerance Slip-On has a novel design which allows for a smaller minimum compressed OD of the bow required in close tolerance applications. By removing the hinge, the slip-on design further reduces the minimum OD.

Type 320 TurboLIZER Hinged has welded turbolator fins inside the bows of the Type 300 design. The fins provide additional fluid agitation for cementing in critical zones.

Type 330 Semi-Rigid Hinged is suited for use in deviated and horizontal applications where low running forces and higher restoring forces are used to casing running operations. Type 340 over the coupling option is also available.

Type 380 Rigid Hinged is designed for use in deviated and horizontal applications and cased hole operations. The rib design allows for optimized fluid flow in the annulus.

NON-WELD CENTRALIZERS

Type 350 Hinged is suited for vertical and deviated applications. The interlocking design between the end collar and bow springs ensure this is a strong and reliable centralizer.

Type 320 Non-Welded with Set Screws is recommended for use in deviated and horizontal wells. The interlocking design between the end collar and bow springs ensure this is a strong and reliable centralizer under compression. Type 320 over the coupling option is also available.

Type 320 Welded Heavy Duty Slip On with Set Screws is recommended for use in deviated and horizontal wells. The interlocking design between the end collar and bow springs ensure this is a strong and reliable centralizer under compression. Type 320 over the coupling option is also available.

Type 345 Welded Slip-On design allows for direct installation over the casing in between stop collars or casing collars. Ideal for the most abrasive down hole conditions. The increase flow-by area (FBA), with no blade overlap, minimizes the build-up affect on cuttings. Available with set screws.

Type 346 Welded Slip-On design allows for direct installation over the casing in between stop collars or casing collars. Ideal for the most abrasive down hole conditions. The increase flow-by area (FBA), with no blade overlap, minimizes the build-up affect on cuttings. Available with set screws.

Solid Body Centralizers

Our solid body centralizers are designed for use in all well inclinations but are specifically designed to provide stand-off in deviated and horizontal wells. The suite of solid body centralizers is available in different configurations such as with or without set screws to fit the centralizer to the pipe, right-hand or left-hand spiral blades to bridge anti-puncture keys or promote fluid agitation, and hollow blades should the string be PQDH with concerns of getting stuck.

Type 340 Stamped centralizer is for use in deviated and horizontal wells. Recommended for use in close tolerance and liner applications, it is suitable for recirculation and rotation during cementing. Also available with set screws.

Type 345 Welded Heavy Duty Slip On with Set Screws is recommended for use in deviated and horizontal wells. The interlocking design between the end collar and bow springs ensure this is a strong and reliable centralizer under compression. Also available in hinged tubing sizes.

Type 350 Heavy Duty Slip On is suited for use in deviated and horizontal wells. It minimizes differential sticking and can be rotated or reciprocated with the casing. Also available with set screws.

Type 350 Slip-On Non-Welded is recommended for use in deviated and horizontal wells. The interlocking design between the end collar and bow springs ensure this is a strong and reliable centralizer under compression. Also available with set screws.

Type 341 Welded Heavy Duty Slip On with Set Screws is recommended for use in deviated and horizontal wells. The interlocking design between the end collar and bow springs ensure this is a strong and reliable centralizer under compression. Also available with set screws.

Type 345 Welded Slip-On design allows for direct installation over the casing in between stop collars or casing collars. Ideal for the most abrasive down hole conditions. The increase flow-by area (FBA), with no blade overlap, minimizes the build-up affect on cuttings. Available with set screws.

Type 346 Welded Slip-On design allows for direct installation over the casing in between stop collars or casing collars. Ideal for the most abrasive down hole conditions. The increase flow-by area (FBA), with no blade overlap, minimizes the build-up affect on cuttings. Available with set screws.
Integral Centralizer Subs are designed to withstand the most extreme deepwater downhole conditions.

Manufactured from mechanical stock tubing, the centralizer subs are designed to perform in wells containing tight clearances and underreamed hole sections and are well suited for flush joint applications. Our customization capabilities allow the sub design to match the exact needs of most well and casing programs and each Integral Centralizer Sub is built such that the bow springs are pulled into or out of the hole reducing the risk of bow deformation.
FLOAT COLLARS AND SHOES

During cementing operations, float equipment is essential for preventing back-flow while also serving as a landing point for cement wiper plugs.

When surge pressures on the formation are a concern, our float equipment can be configured to auto-fill to prevent formation damage. All float equipment is designed and tested to API Recommended Practice 10F.

PLUNGER STYLE FLOAT EQUIPMENT

Float equipment with plunger valves are key components for running casing and performing cementing operations. The HFX® plunger valve is used in float equipment for applications where high flow rates, lost circulation materials (LCM) and/or extended flow rates are encountered. The valve has a nitrile coated phenolic plunger for wear resistance and sealing of the valve.

FLAPPER STYLE AUTO-FILL FLOAT EQUIPMENT

Our auto-fill flapper style float equipment allows for automatic filling of fluid within the casing, reducing casing running time by eliminating the need to fill from surface as well as lowering surge and swab pressures on formations.

FLOAT EQUIPMENT

II-B

Float equipment certified to API (RP 10F) category II-B is available for less demanding well conditions, such as shallower depths or lower pressures. This float equipment is offered in K-55 material and available in 8RD, BTC or slip-on connections. Type 925/926 float equipment is available in sizes from 4-1/2” to 13-3/8”.

High Pressure

Type 505/506 plunger valves are designed specifically for use when high pressures will be encountered. This equipment is typically run on production casing in conjunction with completion tools. Rated to 10,000 psi.

Aluminum Flapper Valve

Type 295/296: Aluminum Flapper valve is specifically designed for use with high concentrations of lost circulation material (LCM). The open bore of the hinged flapper valve permits solids to pass through without clogging the valve. The valve is made from aluminum and is 100% PDC drillable.

Differential-Fill

Type 535 Differential Fill Collar and Type 536 Differential Fill Shoe allow for automatic filling and leveling of the fluid within the casing while it is being run in the hole. The differential fill float equipment consists of a sleeve that operates under differential pressure allowing the inflow of fluid to fill the casing 80 – 90% before shifting closed from the fluid pressure acting above the valve.

Big Bore™ Auto-Fill

Type 537 Big Bore Auto-Fill Float Collar and Type 548 Big Bore Auto-Fill Float Shoe allow for automatic filling of the bottom while casing is being run in the hole. The valve is run in hole fully open which allows the casing to completely fill.

Conventional

Offered as part of the 900 series float equipment, sizes 2-7/8” and 4-1/2” HFX valves are premium valves for applications where high flow rates, lost circulation materials (LCM) and/or extended circulation times are encountered. Available in sizes 6-5/8” and larger, this valve offers field proven performance. Type 942/946 float equipment is easily drilled with conventional PDC or roller bits.

B-B

Float equipment certified to API (RP 10F) category II-B is available for less demanding well conditions, such as shallower depths or lower pressures. This float equipment is offered in K-55 material and available in 8RD, BTC or slip-on connections. Type 925/926 float equipment is available in sizes from 4-1/2” to 13-3/8”.

Type 100/104: Plunger valve is designed specifically for use when high pressures will be encountered. This equipment is typically run on production casing in conjunction with completion tools. Rated to 10,000 psi.

Type 424/426: Float equipment is easily drilled with conventional PDC or roller bits.
Stab-In Float Equipment

Type 960-961 inner string float equipment allows for large casing strings to be cemented through the drill pipe or tubing when stung into the float shoe or collar. This reduces circulating times and pump rates while also eliminating the need to drill out large quantities of cement before drilling ahead. Our inner string float equipment is threaded onto the casing in the same manner as conventional float equipment, but contains a receptacle that is cemented in place to receive the stinger. The Type 962/963 inner string cementing float equipment is threaded onto the casing in the same manner as conventional float equipment, but contains a receptacle that is cemented in place above the valve to receive and latch-in the stinger. The Type 222 stab-in stinger’s connection is manufactured to the specifications of the drill pipe being used in the inner string cementing operation. The Type 233 stab-in latch-in stinger comes standard with a 4-1/2” IF connection, however, other connections can be supplied.

Stab-In Latch-In Float Equipment

The inner string cementing process has been designed to save operator rig time and cement costs by allowing large casing strings to be cemented through the drill pipe or tubing when stung into the float shoe or collar. This eliminates the drill out of large quantities of cement, reduces circulating times, and reduces pumping pressures. Our inner string cementing float equipment utilizes the HFX® valve and is offered with or without a latch-in feature on the stinger.

BridgeBUSTER®

The BridgeBUSTER offers a range of options for increased drilling efficiency and reduced rig and cement costs by allowing large casing strings to be cemented through the drill pipe or tubing when stung into the float shoe or collar. This reduces circulating times and pump rates while also eliminating the need to drill out large quantities of cementing wiper plugs. Type 942/943 inner string cementing float equipment is threaded onto the casing in the same manner as conventional float equipment, but contains a receptacle that is cemented in place above the valve to receive and latch-in the stinger. The Type 233 stab-in latch-in stinger comes standard with a 4-1/2” IF connection, however, other connections can be supplied.

SideWINDER

The SideWINDER is designed for problematic well conditions (such as bridging, swelling or ledges) where reciprocation and/or rotation of the casing is required to ream the hole and land the casing or liner to total depth. All internal components of the SideWINDER Reamer Shoe are fully drillable using PDC or roller cone bits.

BridgeBUSTER®

Guide the casing to total depth while providing maximum circulation with our Guide Shoes. The Guide Shoes are installed on the bottom joint of casing and are usually combined with a float collar in the casing string for conventional cementing operations. The guide shoes also drain connection balls, tubies and debris to the casing without obstruction.
STAGE COLLARS
Rubicon’s stage cementing equipment allows for two and three stage cement jobs. This reduces breakdown of weak formations due to high hydrostatic pressure from a tall column of cement and allows for effective zonal isolation around lost circulation zones. It also assists in selectively placing cement over specific casing intervals. Stage collars are available in different casing grades, weights, and thread connections.

Hydraulic/Mechanical Stage Collar features two internal sleeves that shift during the stage cementing operations. The stage collar can be field set to open hydraulically at different opening pressures. This is achieved through the addition or removal of the brass shear screws from the stage cementing tool. The bottom sleeve can also be shifted open mechanically by dropping the opening dart.

Mechanical Stage Collar has been designed for stage cementing operations that require the tools be opened mechanically. The tool features two internal sleeves that shift during the stage cementing operations. The bottom sleeve is shifted open by dropping an opening dart and allowing it to set on the opening seat. Closing the stage collar is achieved by pumping a closing plug behind the second stage cement and applying pressure upon completing displacement.

Inflatable Casing Packers (ICPs) are designed to be run as an integral component in the casing string or liner. Once inflated they provide permanent impermeable annular barriers between casing strings or between casing and open hole. ICPs seal in vertical, deviated, and irregular wellbores and are fully customizable to match your casing specifications.

INFLATABLE CASING PACKER WITH IntegraLOK VALVE
Inflatable Casing Packers (ICPs) are designed to be run as an integral component in the casing string or liner. Once inflated they provide permanent impermeable annular barriers between casing strings or between casing and open hole. ICPs seal in vertical, deviated, and irregular wellbores and are fully customizable to match your casing specifications.

Inflatable Casing Packers
Feature continuous molded assemblies that are designed with packer elements in 4 foot (1.22m), 10 foot (3.05m), and 20 foot (6.10m) standard lengths. Rubicon packer elements soundly conform to irregular or washout open hole diameters. Steel reinforcement strips are used within the elements to ensure that the tool self-centers in vertical, deviated, or horizontal wellbores.
STOP COLLARS

Hinged with Bolt

The hinged Type 405 Stop Collar is designed to latch-on to the casing for quick and easy installation. The holding force of the Type 405 is higher than the allowable centralizer starting force as specified in API Specification 10D. It uses a nut and bolt assembly which when tightened draws the stop collar into an axially tight hold on the circumference of the pipe. This design does not produce markings or indentations on the casing after installation.

Hinged with Spiral Nail

The hinged Type 410 Stop Collar uses two spiral locking pins which when driven in firmly lock the collar into position around the casing.

Heavy Duty Slip-on with Set Screws
Type 416 is used on the casing string to keep centralizers and cement baskets in place.

Super Heavy Duty Slip-on with Set Screws
Type 417 is a Super Heavy Duty Slip-on type stop collar utilizes 3 alternating rows of set screws for excellent gripping force. Designed for use where very high axial loads are expected.

Hinged with Set Screws

This stop collar is designed to be latched on to the casing with set screws providing superior holding capabilities.

ACCESSORIES

Cement Basket

Typically run above weak formations or lost circulation zones that require protection from the pressure exerted by the cement column. Normally installed on the casing string above the weak formation, its design achieves cement bonding on the casing and prevents cement contamination.

Hinged Cable Wall Cleaner

With its continuous, interlocking and overlapping loop of cable, is designed to remove excess wall filter cake hereby improving bonding of cement to formation.

API Modified High Pressure Thread Compound

Boasts excellent lubrication qualities to prevent galling and wear of threads. It is brushable over a wide temperature range and maintains lead protection to 10,000 psi.

Thread Lok Compound

Used for bonding most threaded substrates, including all metals, wood, composites, rubber to metal, rubber to cement, rubber to wood and rubber to composites. It can also be used as an adhesive metal filler.

CASING ACCESSORIES

STOP COLLARS

Hinged with Bolt

Hinged with Spiral Nail

Heavy Duty Slip-on

Super Heavy Duty Slip-on

Urethane

Aluminum

Phenolic

Kwik Drill

Cementing Plugs

Rubicon’s cementing plugs are used during cementing operations for wiping the casing ID clean of drilling fluids and providing separation between mud, spacers and cement. They also prevent over displacement of the cement slurry and indicate when the cementing job is complete. All plugs are designed to fit in conventional cementing heads.

Cementing Plugs

Aluminum Core

These plugs are built using aluminum substrates which have an outside layer of rubber that is molded. The wiping and sealing fins are molded from natural rubber or hydrogenated polybutadiene (HNBR) with the minimal thickness of rubber designed to allow proper wiping and sealing. The plug set is designed and tested to withstand 5,000 psi differential pressure. The plug sets are also designed and tested to be pumped onto the float equipment at rates of up to 10 barrels per minute.

Phenolic Core

Type 252/253 have a phenolic core and are designed to be drilled out with HOC (Polycrystalline Diamond Compact) Drill bits. The Type 247/248 Non-Rotating Cementing Plugs are phenolic cored with integral teeth designed to prevent rotation of the plugs during drill out operations.

Kwik Drill

Type 547/548, Kwik Drill® are a single or double plug system made from silicone rubber and a polymer core. Kwik Drill cementing plugs wipe the casing clean of drilling mud, separate fluid, and prevents cement contamination. The top plug is the cement displacement plug.

Phenolic Core

Type 252/253 have a phenolic core and are designed to be drilled out with HOC (Polycrystalline Diamond Compact) Drill bits. The Type 247/248 Non-Rotating Cementing Plugs are phenolic cored with integral teeth designed to prevent rotation of the plugs during drill out operations.

Kwik Drill

Type 547/548, Kwik Drill® are a single or double plug system made from silicone rubber and a polymer core. Kwik Drill cementing plugs wipe the casing clean of drilling mud, separate fluids, and prevents cement contamination. The top plug is the cement displacement plug.
Rubicon’s well solutions engineering team is dedicated to developing and continually modifying our equipment to meet the evolving needs of the industry and our customers.

Our fit-for-purpose approach involves performing pre-run modeling and post-run analysis on our technologies. Our technical procedure analyzes the wellbore schematic and interacts with the drilling engineer. Rubicon defines the general themes and operating practices in the specific drilling area, including bottomhole temperatures, expected mud weights, planned tops of cement, potential depleted zones and other influencing factors.

Rubicon’s focused applications and design engineers, research and development projects and testing initiatives effectively aid our customers in reaching TD safely and cost-effectively, achieving zonal isolation and establishing long-term wellbore integrity.

An Organization Built Upon Responsibility And Integrity

At Rubicon, we:

- Exemplify passion and determination
- Genuinely care about customers
- Communicate with intention
- Embrace and drive change
- Create fun and fulfillment
- Succeed as a team
- Make it easy to do business with us

All in the pursuit of creating superior customer and employee experiences.
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