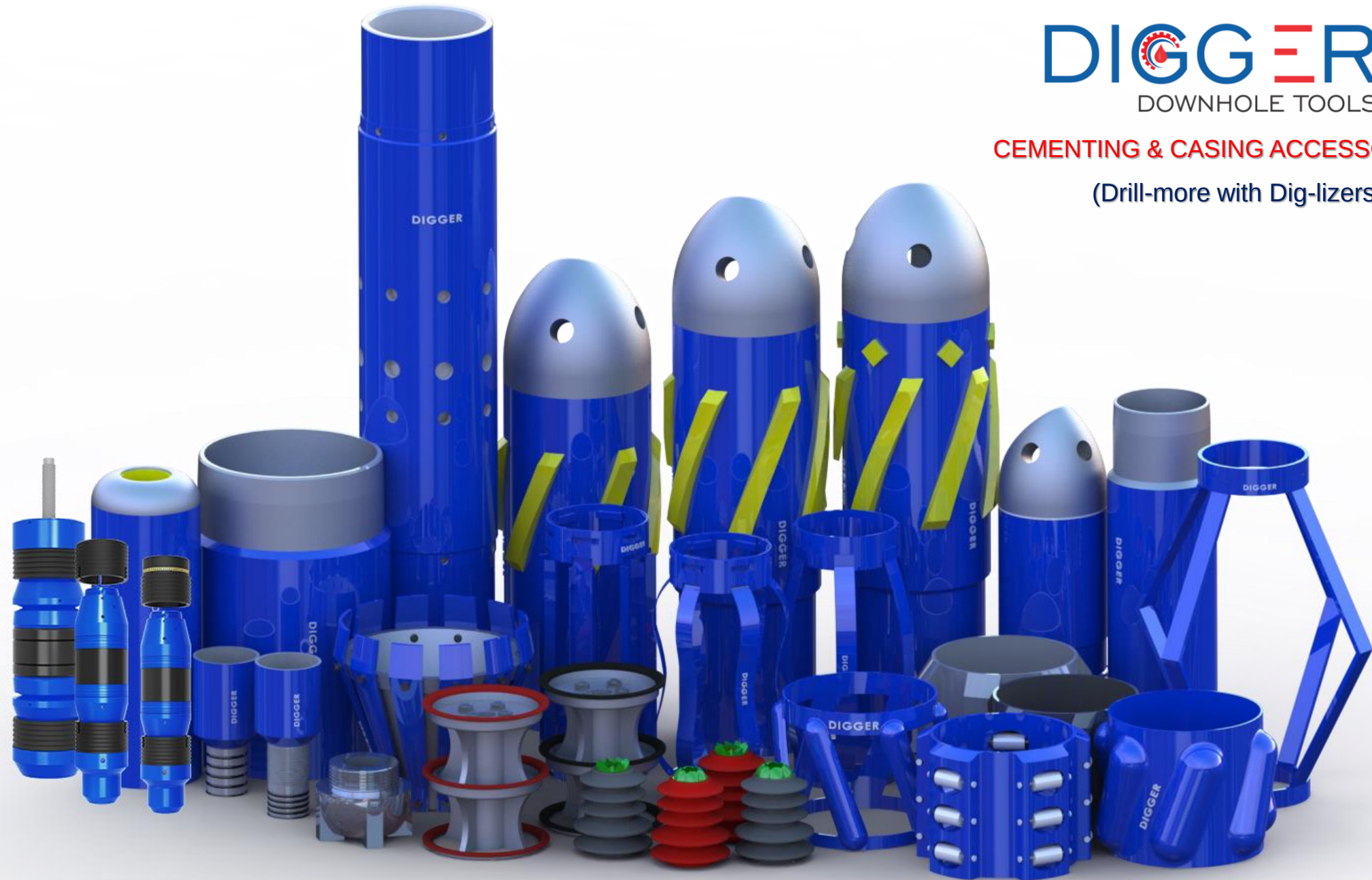




CEMENTING & CASING ACCESSORIES

(Drill-more with Dig-lizers)



VISION & MISSION

MISSION

To provide a range of quality service of highest quality standards.

VISION

To develop best in class oilfield Cementing Equipment and market, innovative, exceptional performance of our quality products.

GOAL

To ensure Complete Customer Satisfaction through continuous development of Product, based on Customer Feedback and to foster long term ties with our clients in a mutually favorable relationship.

AN OVERVIEW

About Us:-

- ❖ We are Digger Downhole Tools companies registered in India was founded in 2017 for the Oil & Gas industry and having an expertise team working in the domain since last 20 years.
- ❖ We are global manufacturer and supplier of high-quality comprehensive range of Downhole Drilling and Cementing Equipment to Offshore and Onshore Oil & Gas E&P companies.
- ❖ We have expertise in development of the cost-effective products/ equipment without compromising quality standards. The in-house Testing facilities includes the Test for Bow Springs and Flow Loop testing with Surface & Subsurface testing facility for functional & validation testing of Final Products as per Customer & API requirement.

OUR FACILITIES

Design and Development

We have experienced team of design engineers who are engaged in designing and development of the products.

Machining

Machining of all the components are done with state of art Machining processes are very well controlled by us by proper evaluation.

Quality Control

We have a team of well qualified and experienced quality officers who perform 100% quality inspection and make sure that final product meets the required specification.



Field Service

We provide the field service of our products and also provide on site/workshop training of our products to our clients on request.

Assembly & Testing

We have our testing facility where Products are tested and validated as per relevant API standard.

Quality Assurance

Entire Processes are guided by Quality Assurance Manual with Standard Operating Procedures. Our Quality Assurance team make sure that the requirements of API/ISO standards are fulfilled.

SYSTEM CERTIFICATIONS



ISO 45001



ISO 9001



ISO 14001

PRODUCT CERTIFICATIONS



ISO 11960



ISO 11960



ISO 11960

PRODUCT CERTIFICATIONS

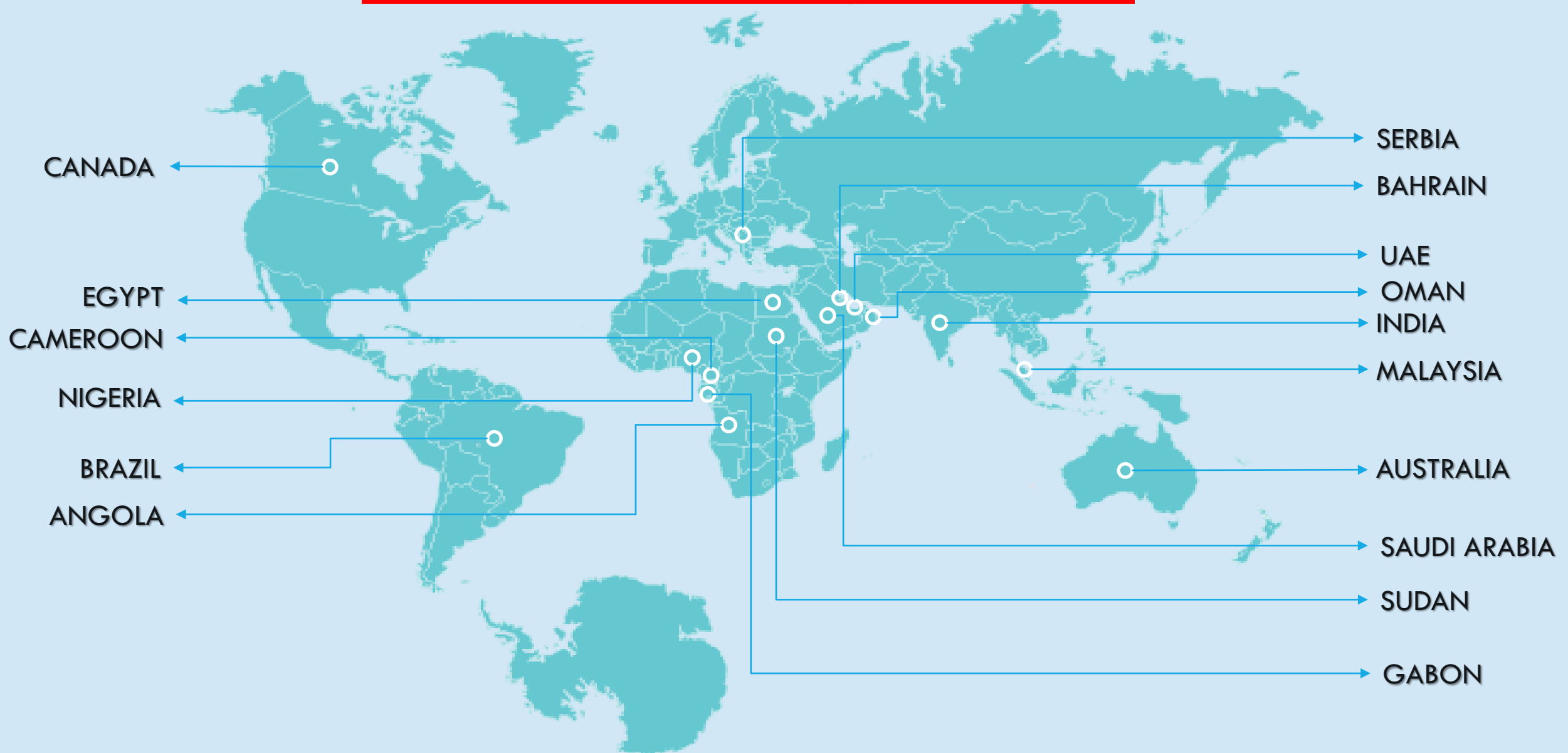


ISO 10427-1



ISO 10427-3

DIGGER GLOBALLY REACHED

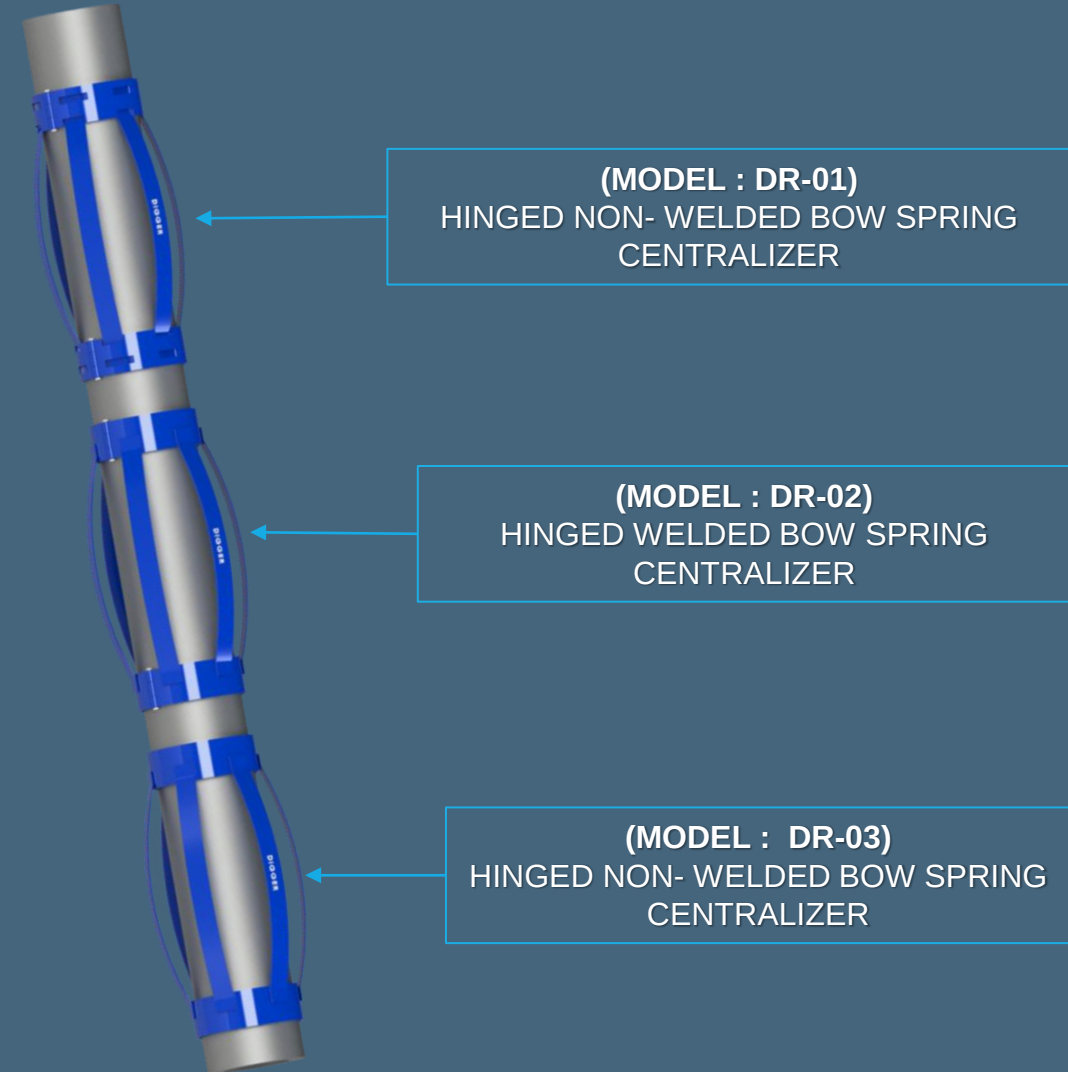


BOW SPRING CENTRALIZERS

- ❖ Tubing or casing applications.
- ❖ Cased and open holes.
- ❖ Bow springs manufactured from high quality spring steel and heat treated to achieve minimum starting and running force and maximum restoring force.
- ❖ High-performance bows provide maximum standoff in multiple locations of the annulus, which provides optimal conditions for primary cementing to achieve zonal isolation.
- ❖ All sizes have been tested and validated to exceed API Specification 10D.
- ❖ **Note** : Available in 4-1/2" to 30" sizes. Any special sizes or combination can be made available on request.

Recommended For Use With:-

- ❖ Hinged Spiral Nail stop collar.

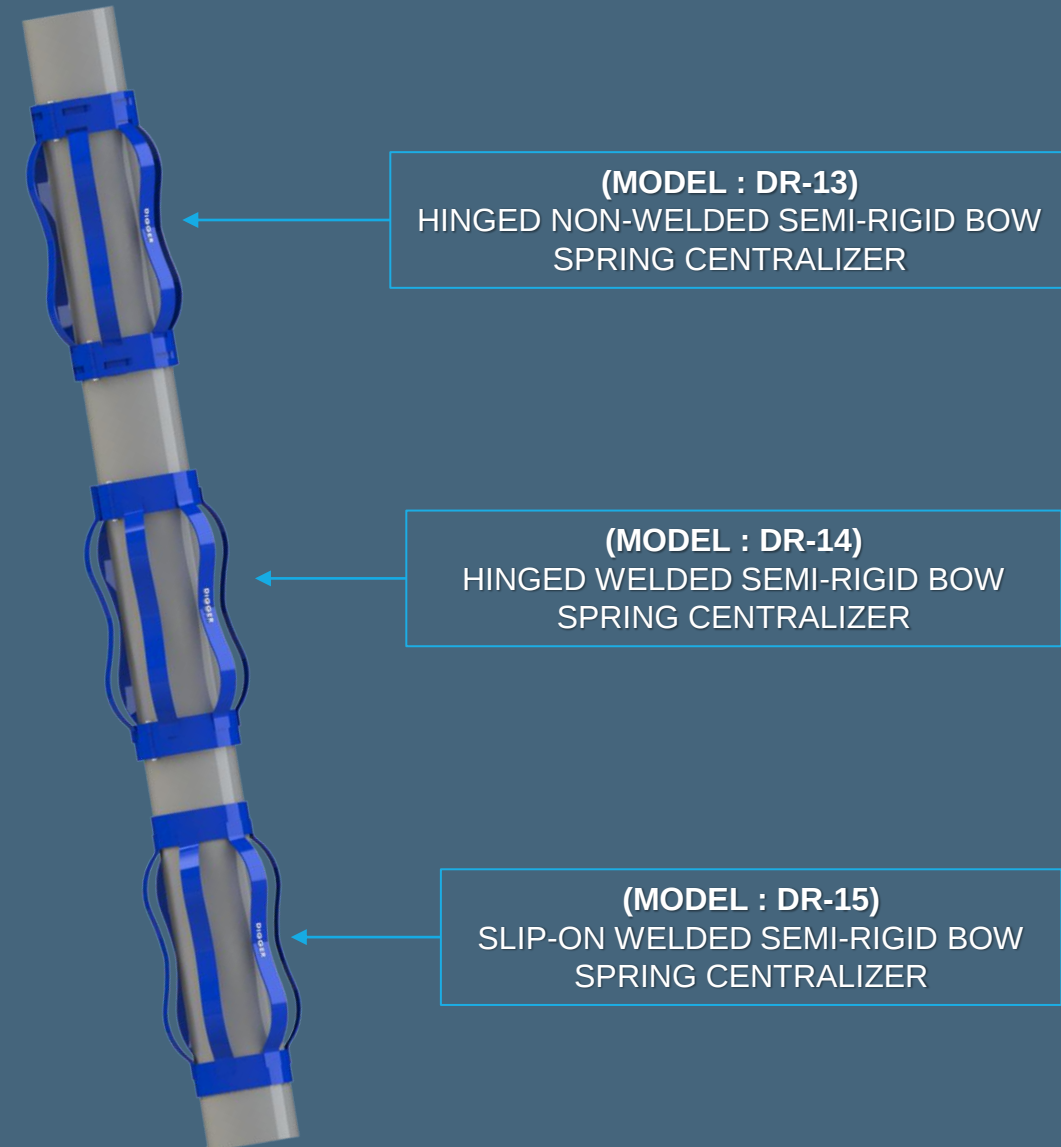


SEMI RIGID BOW SPRING CENTRALIZERS

- ❖ Tubing or casing applications.
- ❖ Reduced drag while running pipe.
- ❖ The upset in center of the spring is designed to contact the casing when the bow spring has been deflected from 90% to 75% standoff (10% - 25% deflection).
- ❖ Compared to conventional bow-spring centralizers, Tandem Rise bows provide better standoff for more effective mud removal, which enhances the primary cement job and zonal isolation.
- ❖ All sizes have been tested and validated to exceed API Specification 10D.
- ❖ **Note :** Available in 4-1/2" to 30" sizes. Any special sizes or combination can be made available on request.

Recommended For Use With:-

- ❖ Slip-on set screw stop collar.



SINGLE-PIECE BOW SPRING CENTRALIZER

- ❖ Capable higher restoring force and better centralization. Improves casing runs with reduced drag. Achieves improved standoff levels for mud displacement and removal.
- ❖ Improves zonal isolation.
- ❖ Zero start and running forces.
- ❖ Maximum flow by area.
- ❖ Extended reach, horizontal and highly deviated wells.
- ❖ Developed to have good stand-off.
- ❖ All sizes have been tested and validated to exceed API Specification 10D.
- ❖ **Note** : Available in 3-1/2" to 20" sizes. Any special sizes or combination can be made available on request.

Recommended For Use With:-

- ❖ Slip-on set screw stop collar.



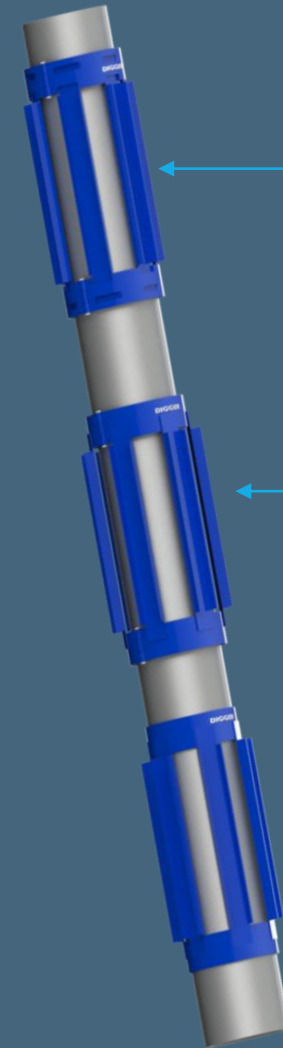
(MODEL : DR-12)

POSITIVE BOW RIGID CENTRALIZERS

- ❖ Cased-hole and openhole applications requiring positive casing standoff and centralization.
- ❖ Large-bore, subsea applications with extreme axial and radial loads.
- ❖ Allows for reciprocation or rotation of casing.
- ❖ Up to 95% stand-off can be achieved in cased hole sections.
- ❖ Available with integral set screws.
- ❖ **Note** : Available in 4-1/2" to 20" sizes. Any special sizes or combination can be made available on request.

Recommended For Use With:-

- ❖ Hinged Spiral Nail / Bolted stop collar.



(MODEL : DR-08)
HINGED NON-WELDED POSITIVE BOW
RIGID CENTRALIZER

(MODEL : DR-09)
HINGED WELDED POSITIVE BOW RIGID
CENTRALIZER

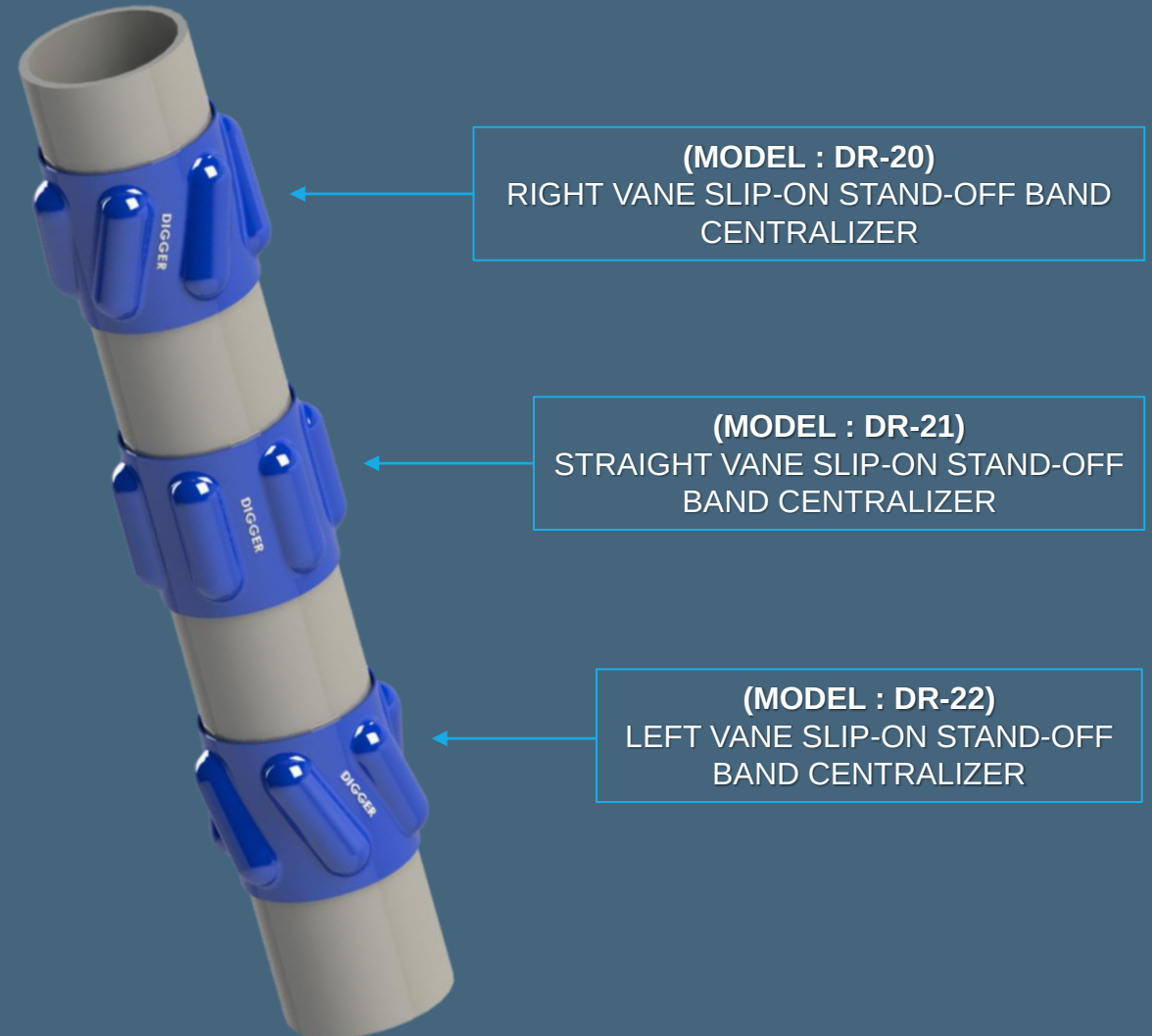
(MODEL : DR-10)
SLIP-ON WELDED POSITIVE BOW
RIGID CENTRALIZER

SLIP-ON STAND-OFF BAND CENTRALIZERS

- ❖ One piece construction with Hydro-form vanes.
- ❖ Wellbores requiring increased fluid turbulence to remove mud more efficiently ahead of the primary cement job.
- ❖ Designed for highly-deviated and horizontal wells.
- ❖ Easy slip-on installation.
- ❖ Achieve high stand-off upto 95%.
- ❖ **Note** : Available in 4-1/2" to 13-5/8" sizes. Any special sizes or combination can be made available on request.

Recommended For Use With:-

- ❖ Slip-on set screw stop collar.

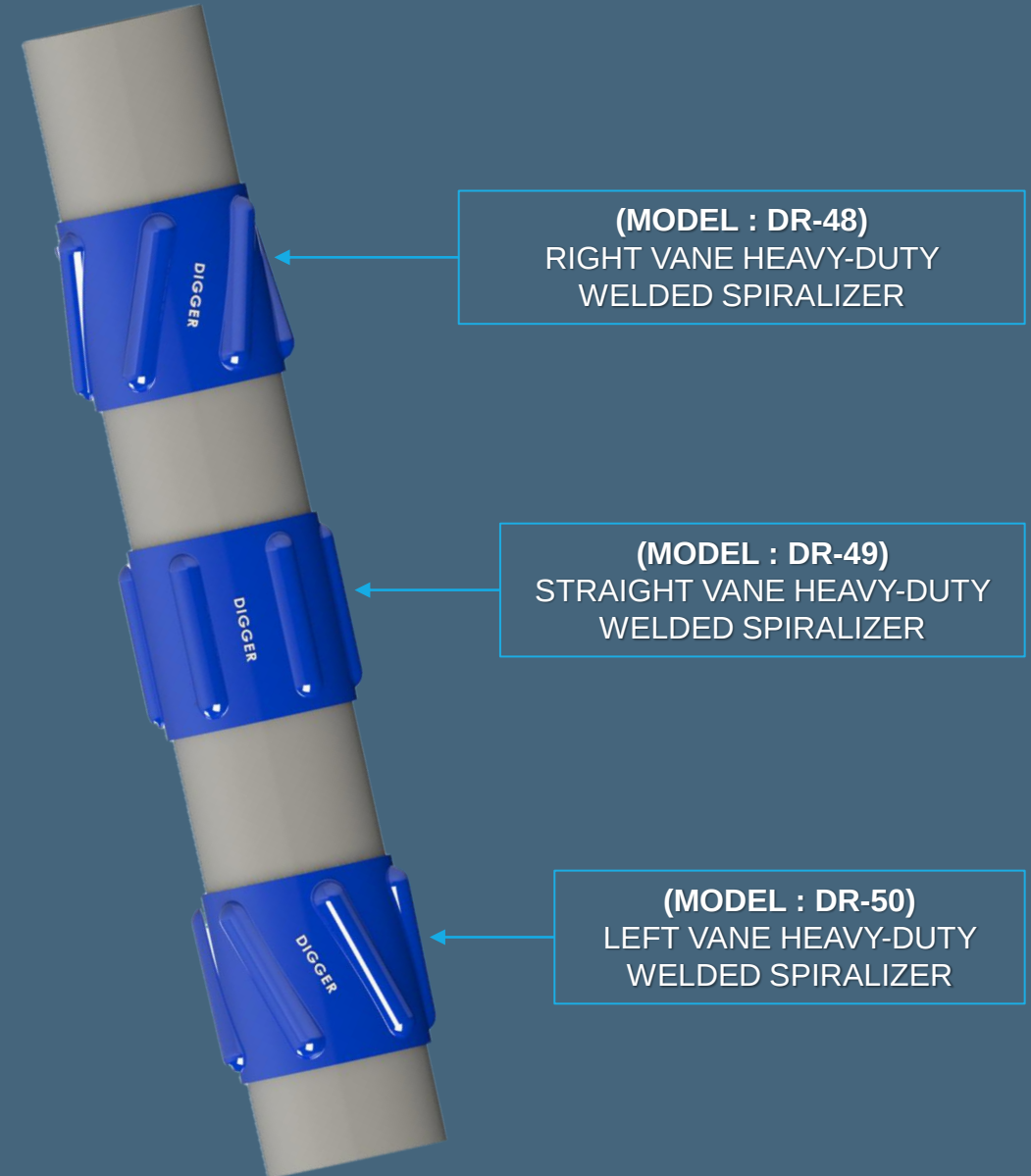


HEAVY-DUTY WELDED SPIRALIZER

- ❖ Vertical, inclined, and horizontal wells.
- ❖ Extended-reach wells and wells with high dogleg severity.
- ❖ The centralizer features a bearing surface that reduces drag and requires less rotational torque than conventional centralizers.
- ❖ The robust steel design—combined with modern manufacturing methods, including mechanical forming and MIG welding—makes this centralizer suitable for the most demanding conditions, in any well.
- ❖ Available in 4-1/2" to 13-5/8" sizes.
- ❖ **Note :** Any special sizes or combination can be made available on customer request.

Recommended For Use With:-

- ❖ Slip-on set screw stop collar.

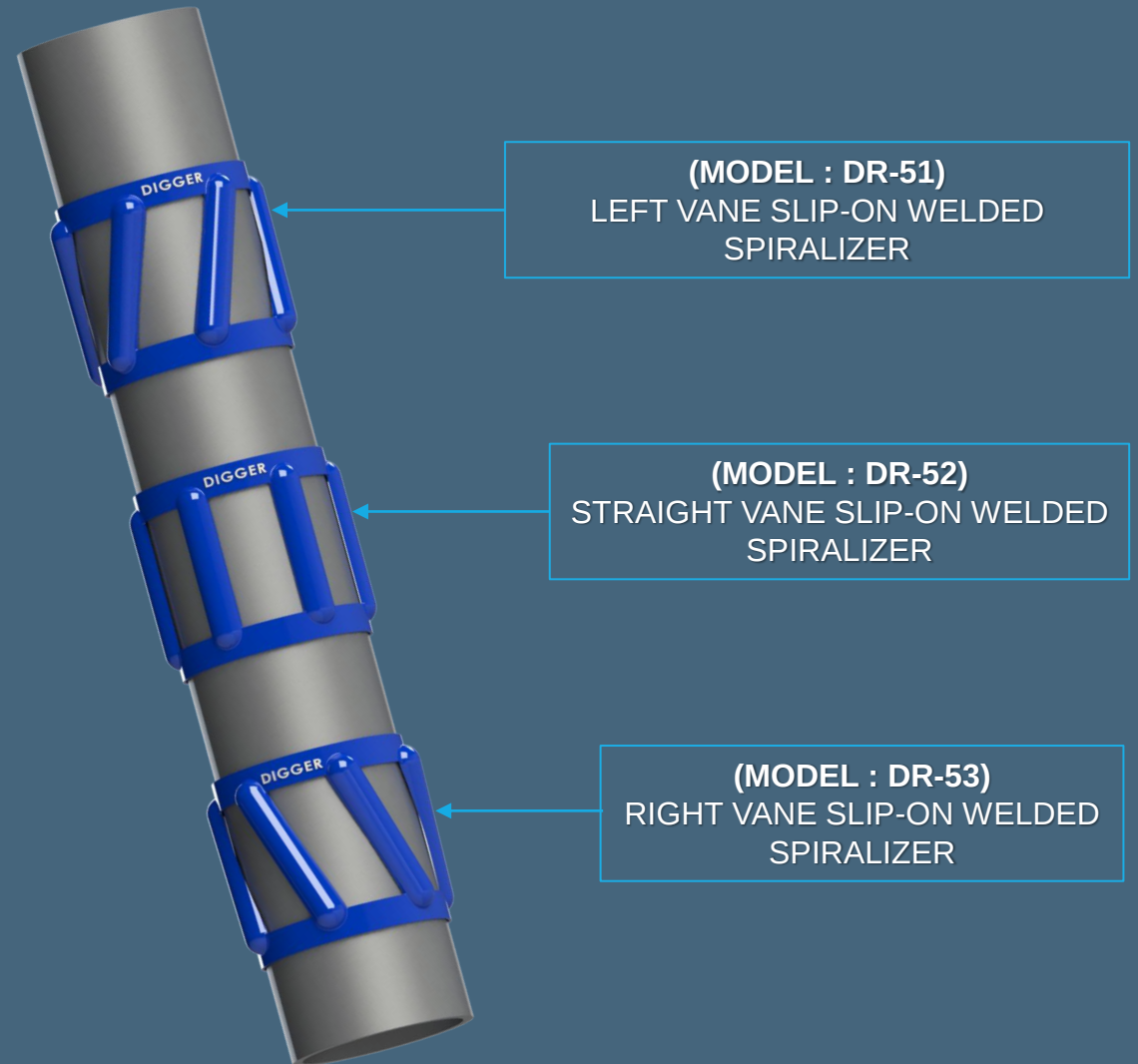


SLIP-ON WELDED SPIRALIZER

- ❖ It help for proper distribution of cement around the casing during the cementing.
- ❖ It also help to reduce the friction for inserting the casing in wellbore.
- ❖ It helps to improve strength of cement bond by evenly distributing the cement.
- ❖ **Note :** Available in 4-1/2" to 13-5/8" sizes. Any special sizes or combination can be made available on request.

Recommended For Use With:-

- ❖ Slip-on set screw stop collar.

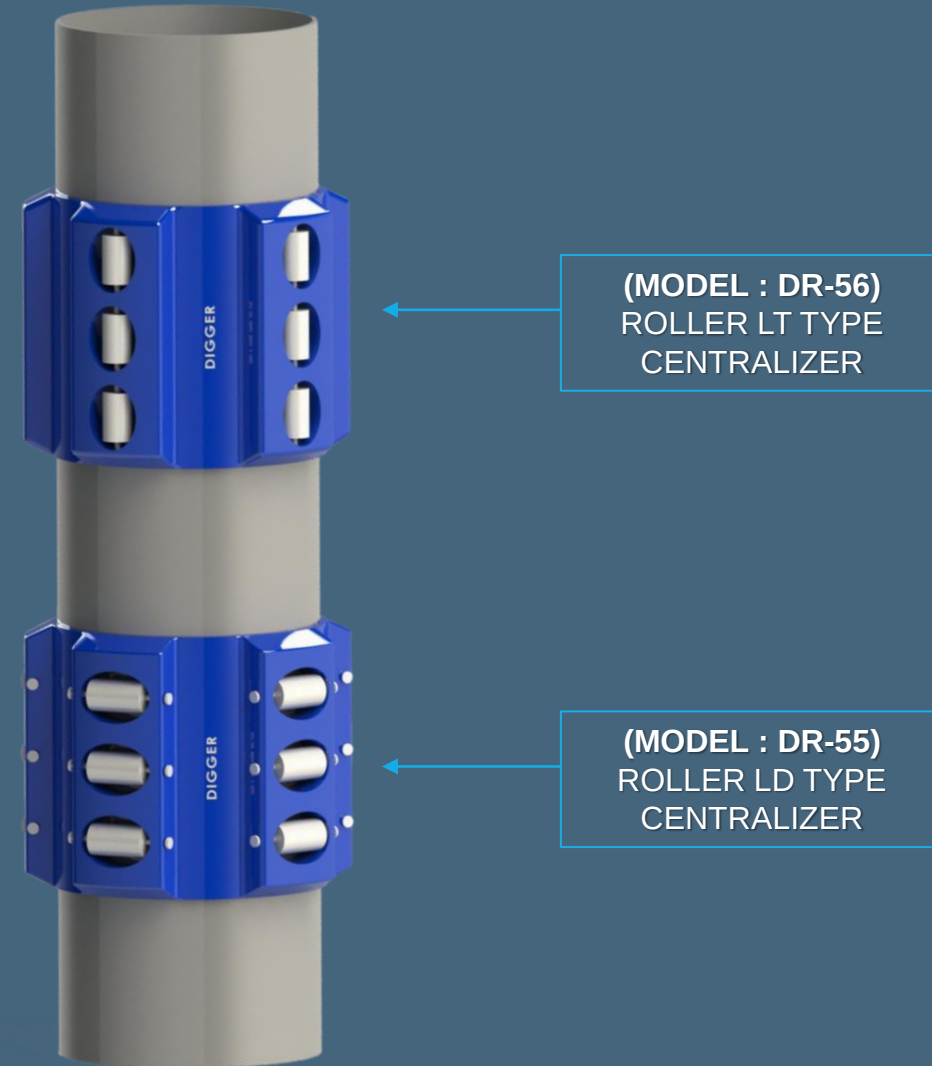


ROLLER TYPE CENTRALIZERS

- ❖ Casing, liner, and screens are being run into horizontal and extended-reach wells Construction provides superior toughness.
- ❖ Underpressured formations may cause differential sticking.
- ❖ Rollers provide superior wear resistance, remain functional throughout the life of the well, and can aid in reducing tubing replacement costs.
- ❖ When running casing through open hole, the system's smaller roller-contact area reduces the risk of differential sticking and maintains standoff.
- ❖ **Note :** Available in 7.0" to 13-5/8" sizes. Any special sizes or combination can be made available on request.

Recommended For Use With:-

- ❖ Slip-on set screw stop collar.

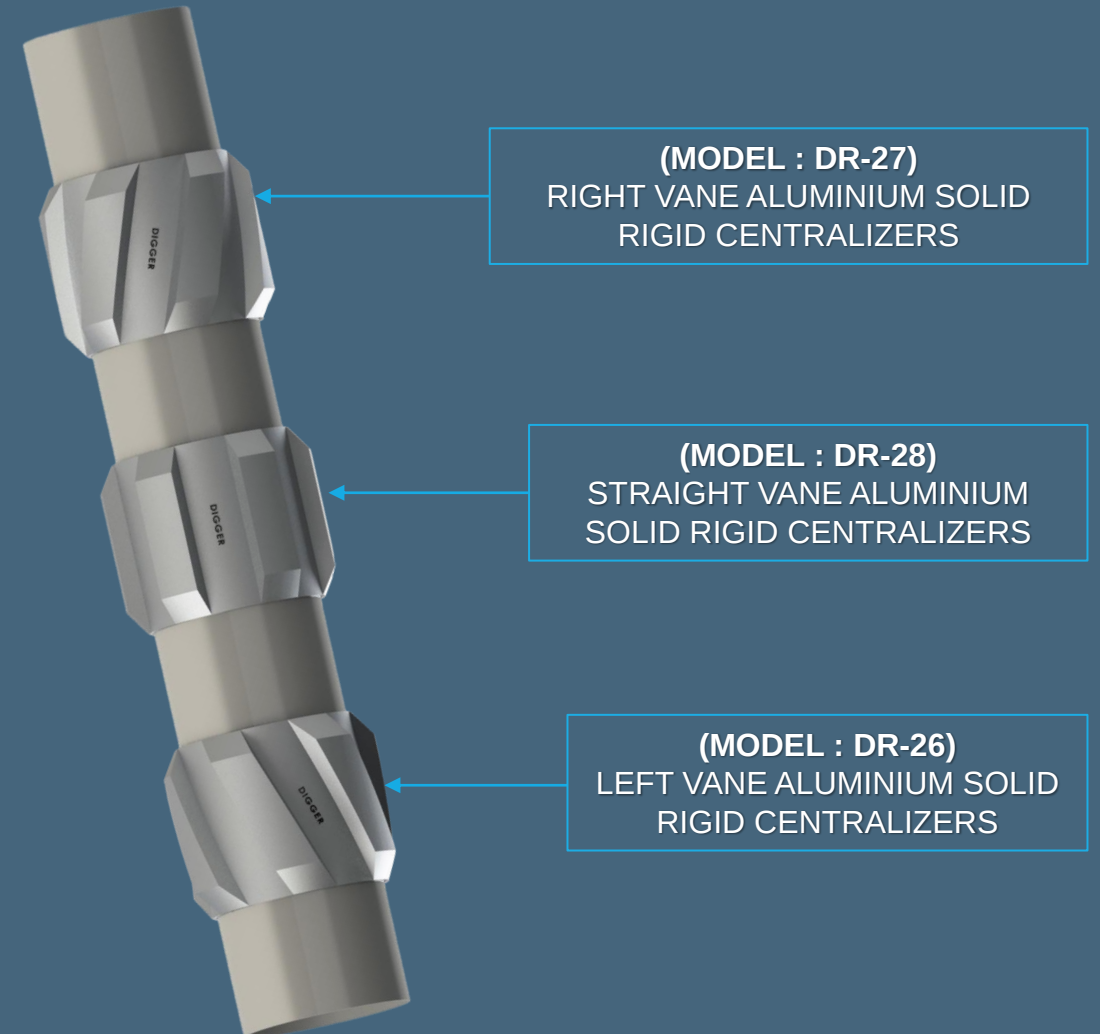


ALUMINIUM SOLID RIGID CENTRALIZERS

- ❖ It is used in areas where a good primary cementing job is required, including deviated and horizontal wells, liner overlaps and shoe joints.
- ❖ 360 degree overlapping solid vanes provide maximum wall contact and fluid swirl.
- ❖ Wide vanes distribute load from the casing string into the wellbore without gouging.
- ❖ Able to withstand high wellbore temperatures while providing 100% horizontal stand-off..
- ❖ **Note :** Available in 4-1/2" to 13-5/8 " sizes. Any special sizes or combination can be made available on request.

Recommended For Use With:-

- ❖ Slip-on set screw stop collar.

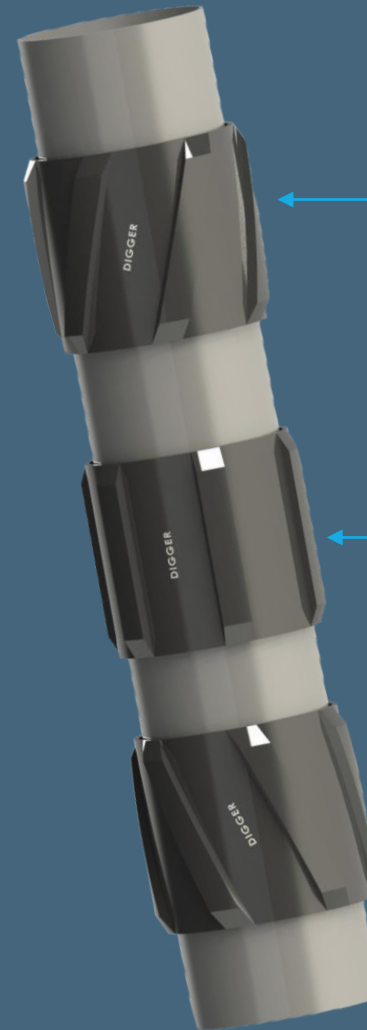


THERMOPLASTIC SOLID RIGID CENTRALIZERS

- ❖ Wear resistance, toughness, high thermal stability and high impact resistance.
- ❖ The relieved angle fins/ blades induce turbulent flow for improved cutting and filter cake removal.
- ❖ Able to withstand high temperature.
- ❖ Toughness and abrasion resistance to address high side force.
- ❖ **Note :** Available in 4-1/2" to 13-5/8" sizes. Any special sizes or combination can be made available on request.

Recommended For Use With:-

- ❖ Slip-on set screw stop collar.



(MODEL : DR-45)
RIGHT VANE THERMOPLASTIC SOLID
RIGID CENTRALIZERS

(MODEL : DR-43)
STRAIGHT VANE THERMOPLASTIC SOLID
RIGID CENTRALIZERS

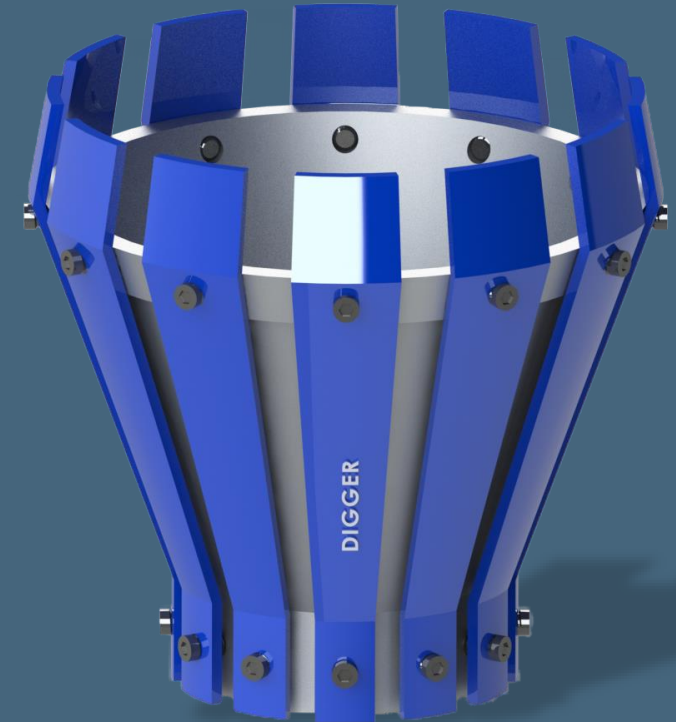
(MODEL : DR-44)
LEFT VANE THERMOPLASTIC SOLID
RIGID CENTRALIZERS

OPEN TOP CEMENT BASKET

- ❖ Special zinc Phosphate and powder coating process to prevent from Rust and ensure stocking in the open for a long time.
- ❖ Its design allows cement to flow in an upward direction, yet helps to prevent it from falling downward.
- ❖ Developed to exceeds API 10D standards.
- ❖ **Note :** Available in 4-1/2" to 20 " sizes. Any special sizes or combination can be made available on request.

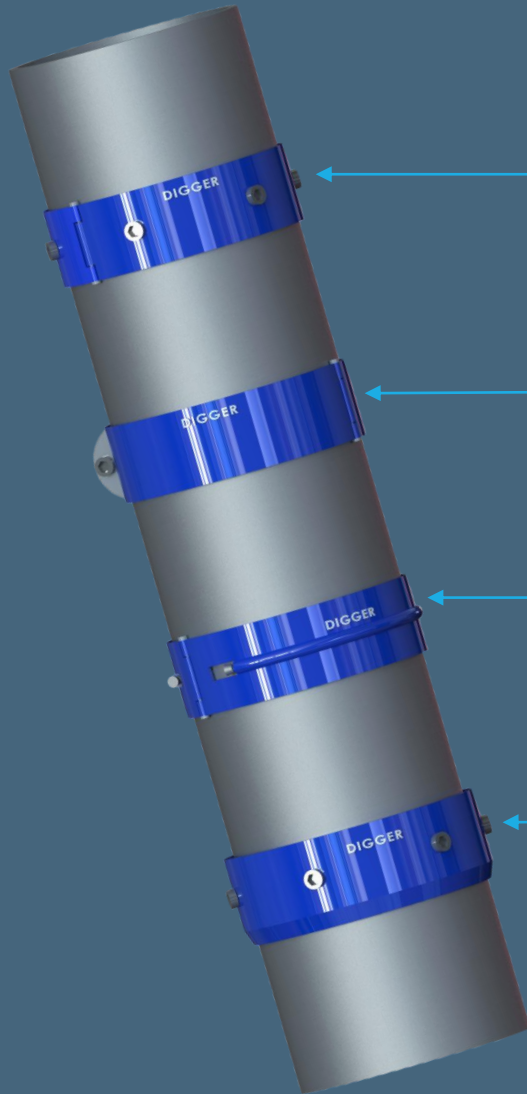
Recommended For Use With:-

- ❖ Bolted stop collar / Slip-on set screw stop collar.



(MODEL : DR-19)

STOP COLLARS



HINGED SET SCREW STOP COLLAR

HINGED BOLTED STOP COLLAR

HINGED SPIRAL NAIL STOP COLLAR

SLIP-ON SET SCREW STOP COLLAR

HINGED SET SCREW STOP COLLAR



(MODEL : DR-59)

- ❖ Offers superior holding capability with easy to install features.
- ❖ Easy installation with Allen key to torque set screws.
- ❖ Manufactured in all common casing sizes.
- ❖ Tested in accordance to API Specification 10D-2.
- ❖ Superior holding performance for most conditions.

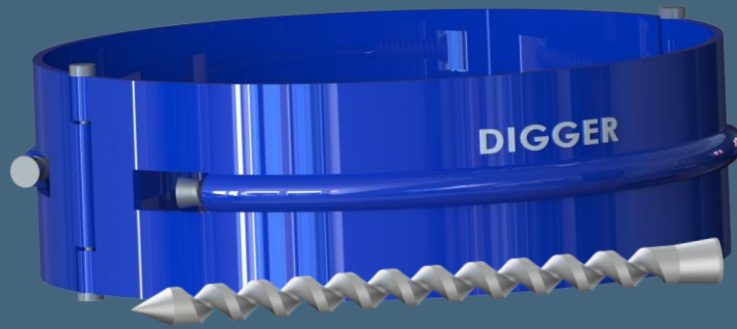
HINGED BOLTED STOP COLLAR



(MODEL : DR-58)

- ❖ High holding force.
- ❖ Drillpipe centralizers
- ❖ Stop Collar at desired position on casing joint.
- ❖ To mate the 2 halves, use the Allen wrench to tighten bolt to 25 ft. /lbs.
- ❖ Tested in accordance to API Specification 10D-2.

HINGED SPIRAL NAIL STOP COLLAR



(MODEL : DR-57)

- ❖ Applied on both upset and nonupset casing.
- ❖ Manufactured to endure high axial forces.
- ❖ Simple to use latching system provides firm grip on the casing.
- ❖ Tested in accordance to API Specification 10D-2.
- ❖ For sizes 13-3/8" and above, 4 spiral nails are used for fastening the stop collar to the casing.

SLIP-ON SET SCREW STOP COLLAR



(MODEL : DR-60)

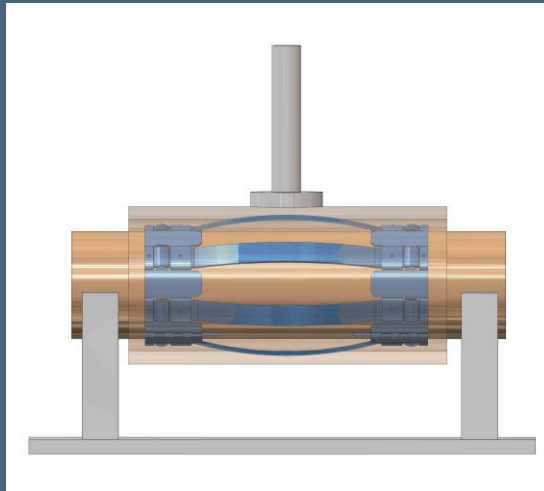
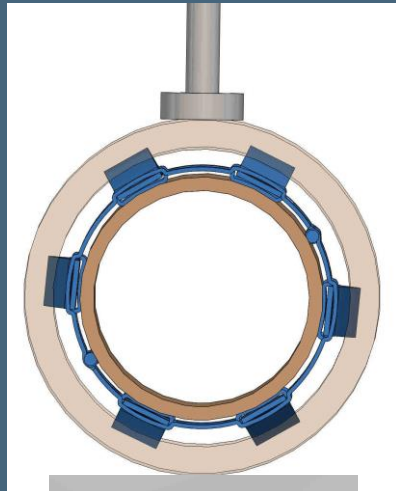
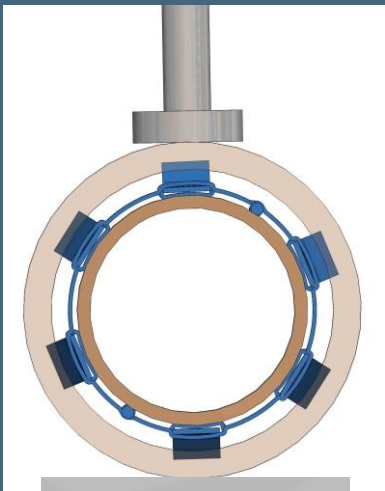
- ❖ These collars provide reliable holding force.
- ❖ Available with or without a beveled edge.
- ❖ Easy installation with Allen key to torque set screws.
- ❖ Tested in accordance to API Specification 10D-2.
- ❖ Predominantly used on both sides of rigid or semi-rigid centralizers, such as the Spiralizer, the Roller LD & LT Type centralizer.

CENTRALIZER TESTINGS

Digger follows API specification 10D 7th edition for design and manufacturing of bow spring centralizers.

Type of testings done as per API specification 10D :-

- ❖ Starting force testing
- ❖ Restarting force testing
- ❖ Running force testing
- ❖ Restoring force testing



AUTO-FILL FLOAT SHOE



Model : DR-AFFS

Features:-

- ❖ Available sizes- 4-1/2" to 20"
- ❖ Pressure rating- P7.5
- ❖ Temperature rating- T400
- ❖ Valve back pressure rated to 5,000 psi.
- ❖ Standard- API 10F.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ All API and premium connections available.
- ❖ Customised as per client requirements.

Options:-

- ❖ Available in single and double valve configuration.
- ❖ Side ports.
- ❖ Up/down jets.

AUTO-FILL FLOAT COLLAR



Model : DR-AFFC

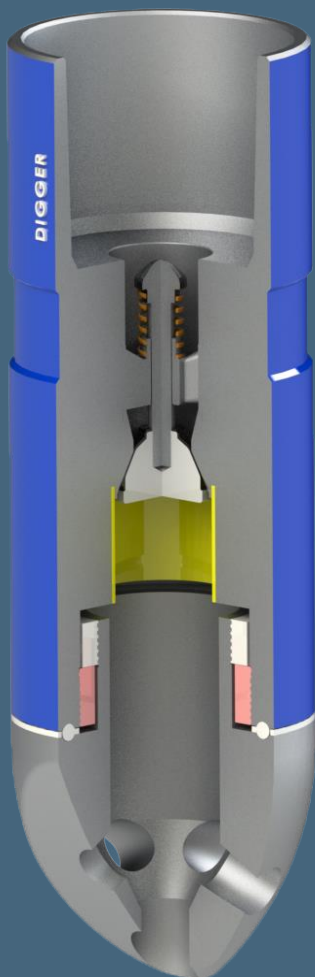
Features:-

- ❖ Available sizes- 4-1/2" to 20"
- ❖ Pressure rating- P7.5
- ❖ Temperature rating- T400
- ❖ Valve back pressure rated to 5,000 psi.
- ❖ Standard- API 10F.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ All API and premium connections available.
- ❖ Customised as per client requirements.

Options:-

- ❖ Available in single and double valve configuration.
- ❖ Side ports.
- ❖ Up/down jets.

FREE ROTATING GUIDE SHOE



Model : DR-FRGS-1

Digger's free-rotating eccentric guide shoe facilitates problem free running of casing in highly deviated hole sections. The unique nose design enables the guide shoe to change orientation as casing or liners are run into the wellbore.

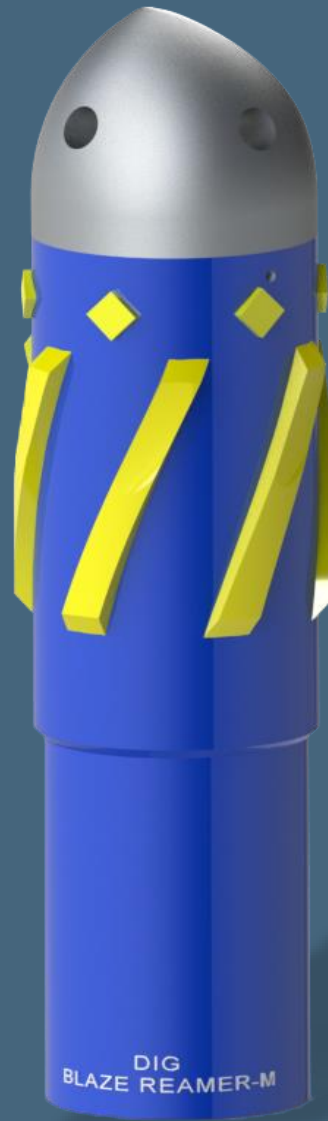
Features:-

- ❖ Available sizes- 4-1/2" to 20"
- ❖ Pressure rating- P7.5
- ❖ Temperature rating- T400
- ❖ Valve back pressure rated to 5,000 psi.
- ❖ Standard- API 10F.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ All API and premium connections available.
- ❖ Self-aligning, PDC-drillable nose rotates with low torque to guide the casing to the path of least resistance.
- ❖ Eccentric guide shoe configurations increase efficiency in highly deviated wellbores.

Options:-

- ❖ Side ports.
- ❖ Up/down jets.
- ❖ Available in single and double valve configuration.
- ❖ Customised as per client requirements.

REAMER SHOES



DIG-BLAZE REAMER SHOE



Model : DR-DBR-1

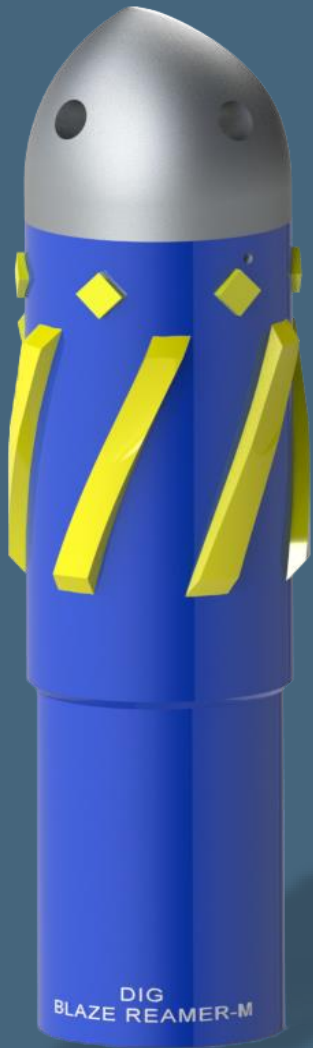
Features:-

- ❖ Available sizes- 4-1/2" to 20"
- ❖ Pressure rating- P7.5
- ❖ Temperature rating- T400
- ❖ Valve back pressure rated to 5,000 psi.
- ❖ Standard- API 10F.
- ❖ Innovative nose profile.
- ❖ Aggressive right-hand blades.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ Compatible with all casing and liner hanger assemblies.
- ❖ Helical tungsten carbide cutting structure.
- ❖ All API and premium connections available.
- ❖ Eccentric guide shoe configurations increase efficiency in highly deviated wellbores.

Options:-

- ❖ Side ports.
- ❖ Up/down jets.
- ❖ Available in single and double valve configuration.
- ❖ Customised as per client requirements.

DIG-BLAZE REAMER SHOE-M



Model : DR-DBR-M

Features:-

- ❖ Available sizes- 4-1/2" to 20"
- ❖ Pressure rating- P7.5
- ❖ Temperature rating- T400
- ❖ Valve back pressure rated to 5,000 psi.
- ❖ Standard- API 10F.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ Efficient drill out.
- ❖ For use with and without rotation.
- ❖ Specially built to fit any casing and hole size combinations.
- ❖ Helical tungsten carbide cutting structure.
- ❖ All API and premium connections available.
- ❖ Eccentric guide shoe configurations increase efficiency in highly deviated wellbores.

Options:-

- ❖ Side ports.
- ❖ Up/down jets.
- ❖ Available in single and double valve configuration.
- ❖ Customised as per client requirements.

DIG-BLAZE REAMER SHOE-S



Model : DR-DBR-S

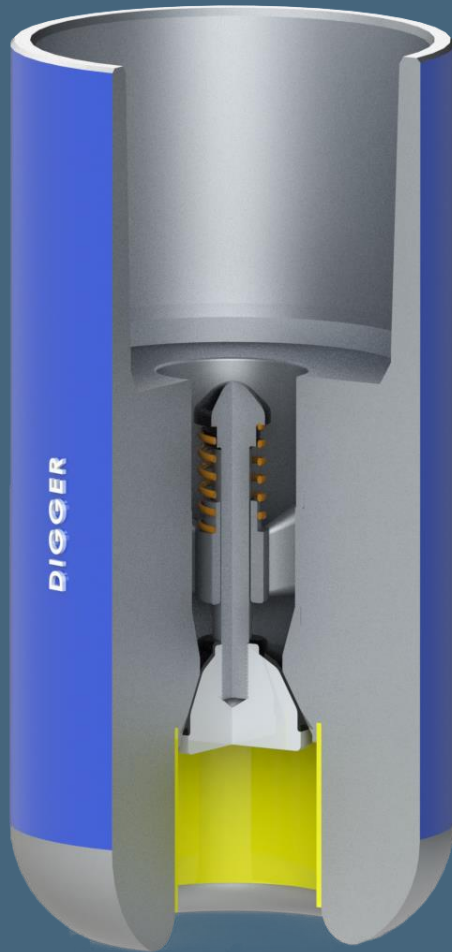
Features:-

- ❖ Available sizes- 4-1/2" to 20"
- ❖ Pressure rating- P7.5
- ❖ Temperature rating- T400
- ❖ Valve back pressure rated to 5,000 psi.
- ❖ Standard- API 10F.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ All API and premium connections available.
- ❖ Casing friendly tungsten carbide cutting structure on body.
- ❖ Wellbore seeking eccentric guide nose negotiates troublesome formations.
- ❖ Eccentric guide shoe configurations increase efficiency in highly deviated wellbores.

Options:-

- ❖ Side ports.
- ❖ Up/down jets.
- ❖ Available in single and double valve configuration.
- ❖ Customised as per client requirements.

CONVENTIONAL FLOAT SHOE



Model : DR-CFS-1

Float Shoe Is A Cylindrical Steel Section With A Rounded Nose Which Guides The Casing Toward That Is Attached To The Bottom Of The Casing String Towards The Center Of The Hole. It Contains A Check Valve To Permit Fluid To Pass Downward But Not Upward Through The Casing.

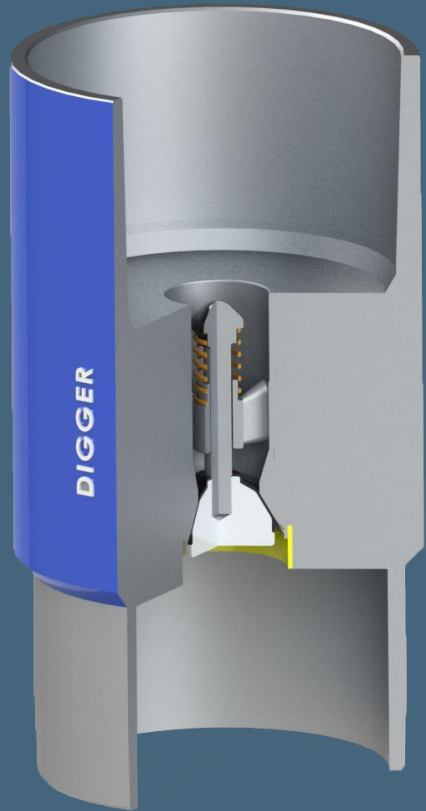
Features:-

- ❖ Available sizes- 4-1/2" to 20"
- ❖ Pressure rating- P7.5
- ❖ Temperature rating- T400
- ❖ Valve back pressure rated to 5,000 psi.
- ❖ Standard- API 10F.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ All API and premium connections available.

Options:-

- ❖ Side ports.
- ❖ Up/down jets.
- ❖ Available in single and double valve configuration.
- ❖ Customised as per client \requirements.

CONVENTIONAL FLOAT COLLAR



Model : DR-CFC-1

Features:-

- ❖ Available sizes- 4-1/2" to 20"
- ❖ Pressure rating- P7.5
- ❖ Temperature rating- T400
- ❖ Valve back pressure rated to 5,000 psi.
- ❖ Standard- API 10F.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ All API and premium connections available.

Options:-

- ❖ Ball deflector.
- ❖ Side ports.
- ❖ Up/down jets.
- ❖ Available in single and double valve configuration.
- ❖ Customised as per client requirements.

NON-ROTATING FLOAT COLLAR



Model : DR-NRFC-1

Features:-

- ❖ Available sizes- 4-1/2" to 20"
- ❖ Pressure rating- P7.5
- ❖ Temperature rating- T400
- ❖ Valve back pressure rated to 5,000 psi.
- ❖ Standard- API 10F.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ All API and premium connections available.

Options:-

- ❖ Side ports.
- ❖ Up/down jets.
- ❖ Available in single and double valve configuration.
- ❖ Customised as per client requirements.

STAB-IN FLOAT SHOE



Model : DR-SIFS-1

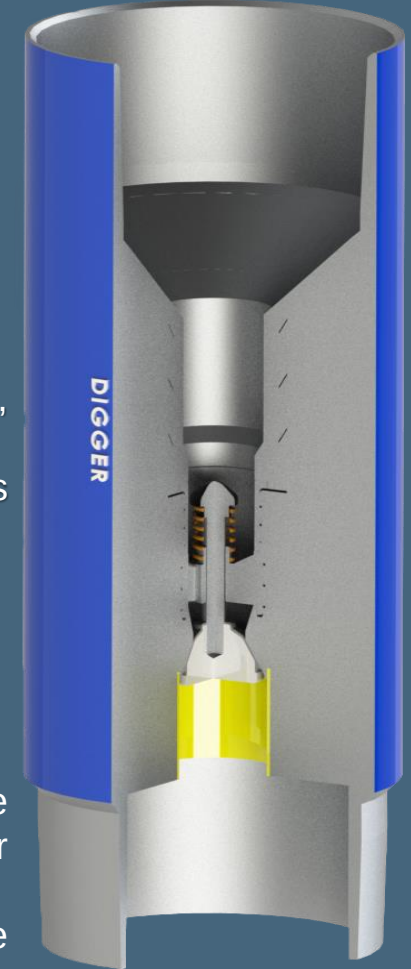
Features:-

- ❖ Available sizes- 4-1/2" to 20"
- ❖ Pressure rating- P7.5
- ❖ Temperature rating- T400
- ❖ Valve back pressure rated to 5,000 psi.
- ❖ Standard- API 10F.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ All API and premium connections available.

Recommended For Use With:-

- ❖ Stab-in stinger.
- ❖ O-ring spare seal kit.
- ❖ Wiper plug to wipe the stab-in drill pipe and stinger after cementing is complete.
- ❖ Drill Pipe Centralizer to guide the drill pipe into sealing surfaces.
- ❖ Drill Pipe Stop Collar.

STAB-IN FLOAT COLLAR



Model : DR-SIFC-1

Features:-

- ❖ Available sizes- 4-1/2" to 20"
- ❖ Pressure rating- P7.5
- ❖ Temperature rating- T400
- ❖ Valve back pressure rated to 5,000 psi.
- ❖ Standard- API 10F.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ All API and premium connections available.

Recommended For Use With:-

- ❖ Stab-in stinger.
- ❖ O-ring spare seal kit.
- ❖ Latch down flexible wiper plug to wipe the stab-in drill pipe and stinger after cementing is complete.
- ❖ Drill Pipe Centralizer to guide the drill pipe into sealing surfaces.
- ❖ Drill Pipe Stop Collar.

STAB IN STINGER



Model : DR-SIS

Stab in Stinger allows large diameter casing strings to be cemented through the drill pipe or tubing that is stung into and/or sealed into the float shoe or float collar.

- ❖ Connection types- IF,FH
- ❖ Available sizes- 3-1/2" to 6-5/8"
- ❖ Available Materials- AISI-4140/4145
- ❖ Customized as per client requirements.

STAB IN LATCH STINGER



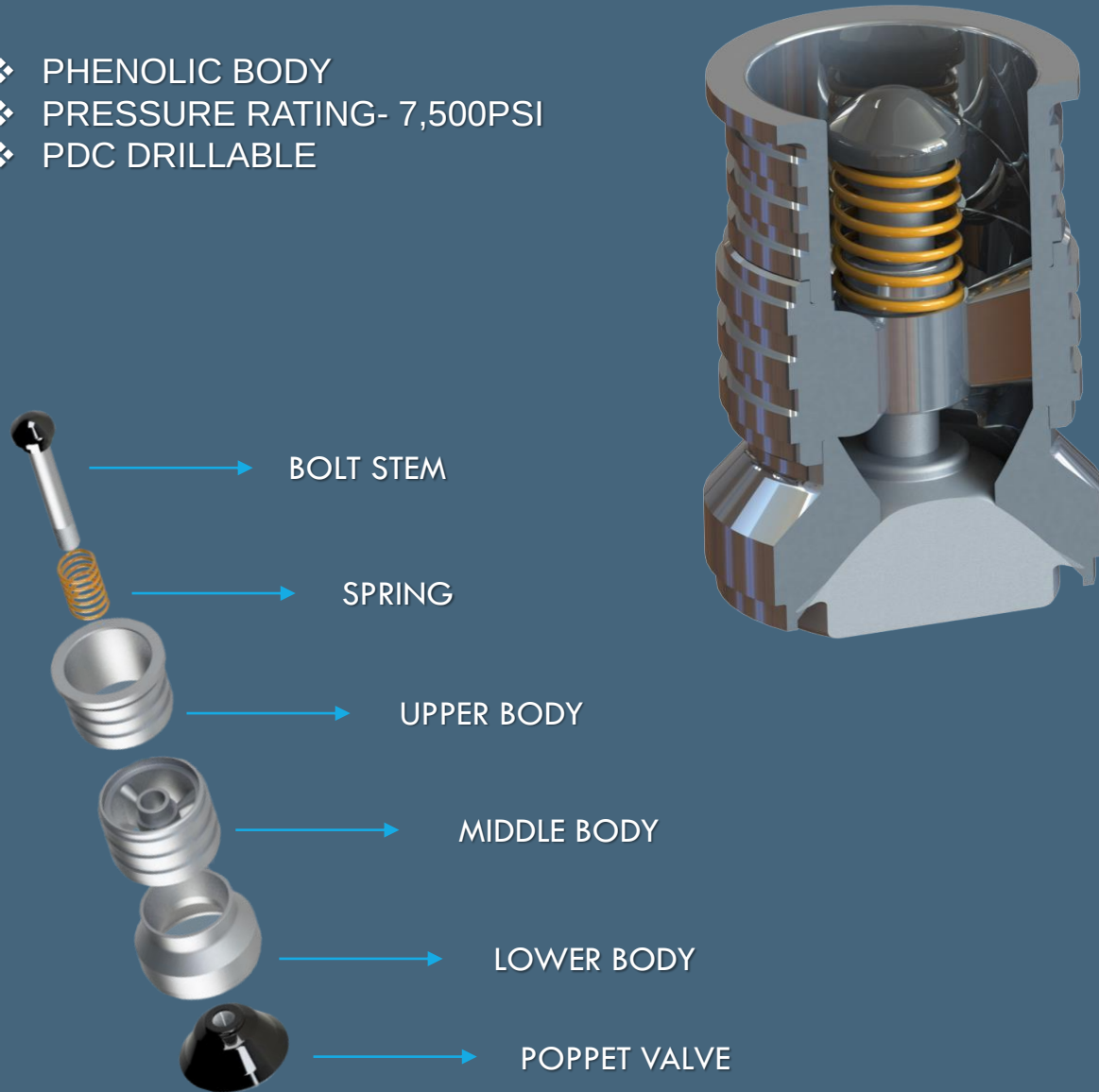
Model : DR-SILS

Stab in Latch Stinger has a latch type profile(non-rotating), which allows it to latch into stab-in-latch float shoe/collar and allows large diameter casing strings to be cemented through the drill pipe or tubing that is stung into and/or sealed into the float shoe or float collar.

- ❖ Connection types- IF,FH
- ❖ Available sizes- 3-1/2" to 6-5/8"
- ❖ Available Materials- AISI-4140/4145
- ❖ Customized as per client requirements.

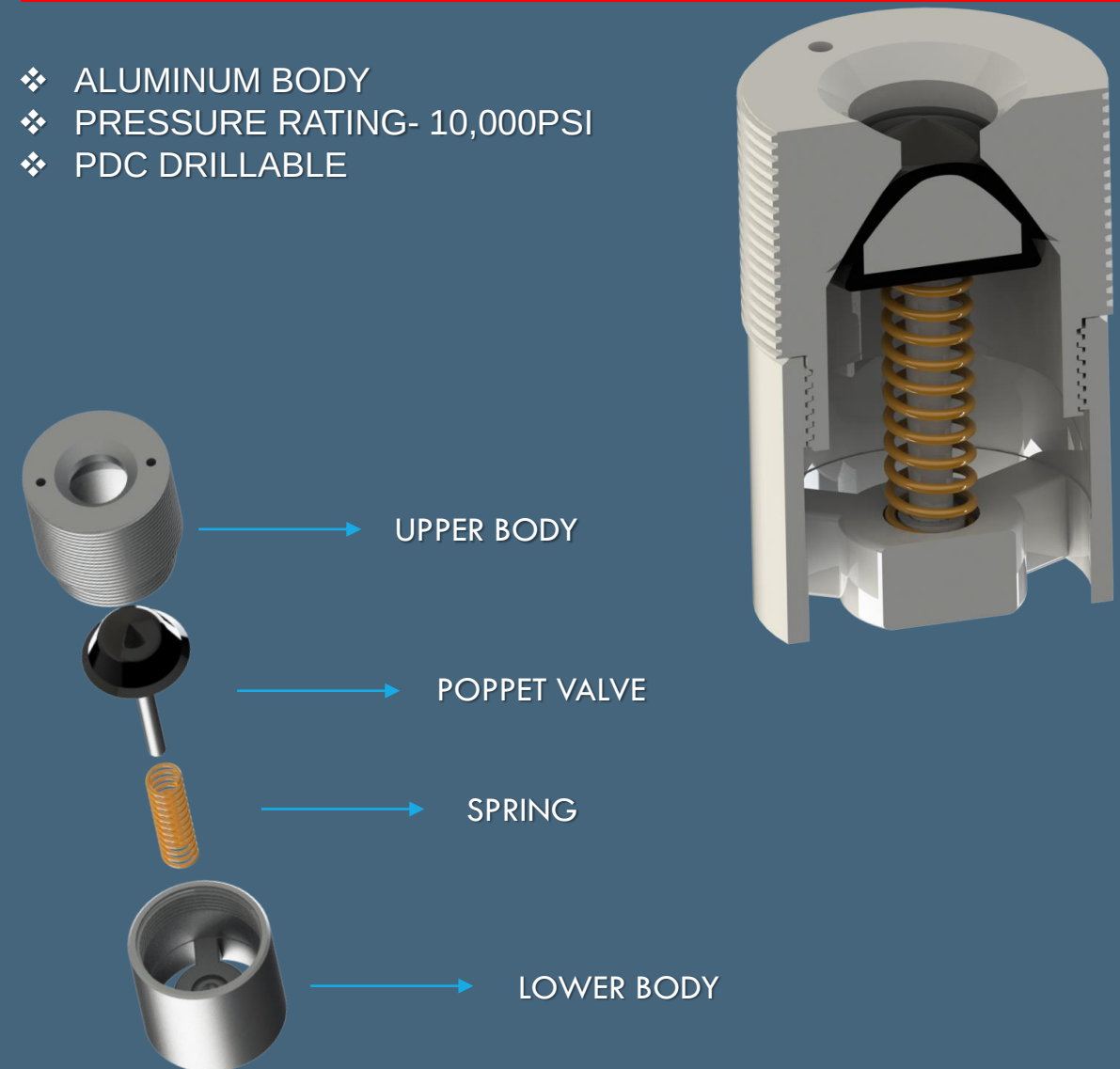
FLOAT VALVE (FOR CASING)

- ❖ PHENOLIC BODY
- ❖ PRESSURE RATING- 7,500PSI
- ❖ PDC DRILLABLE



FLOAT VALVE (FOR TUBING)

- ❖ ALUMINUM BODY
- ❖ PRESSURE RATING- 10,000PSI
- ❖ PDC DRILLABLE



FLOAT EQUIPMENT TESTING

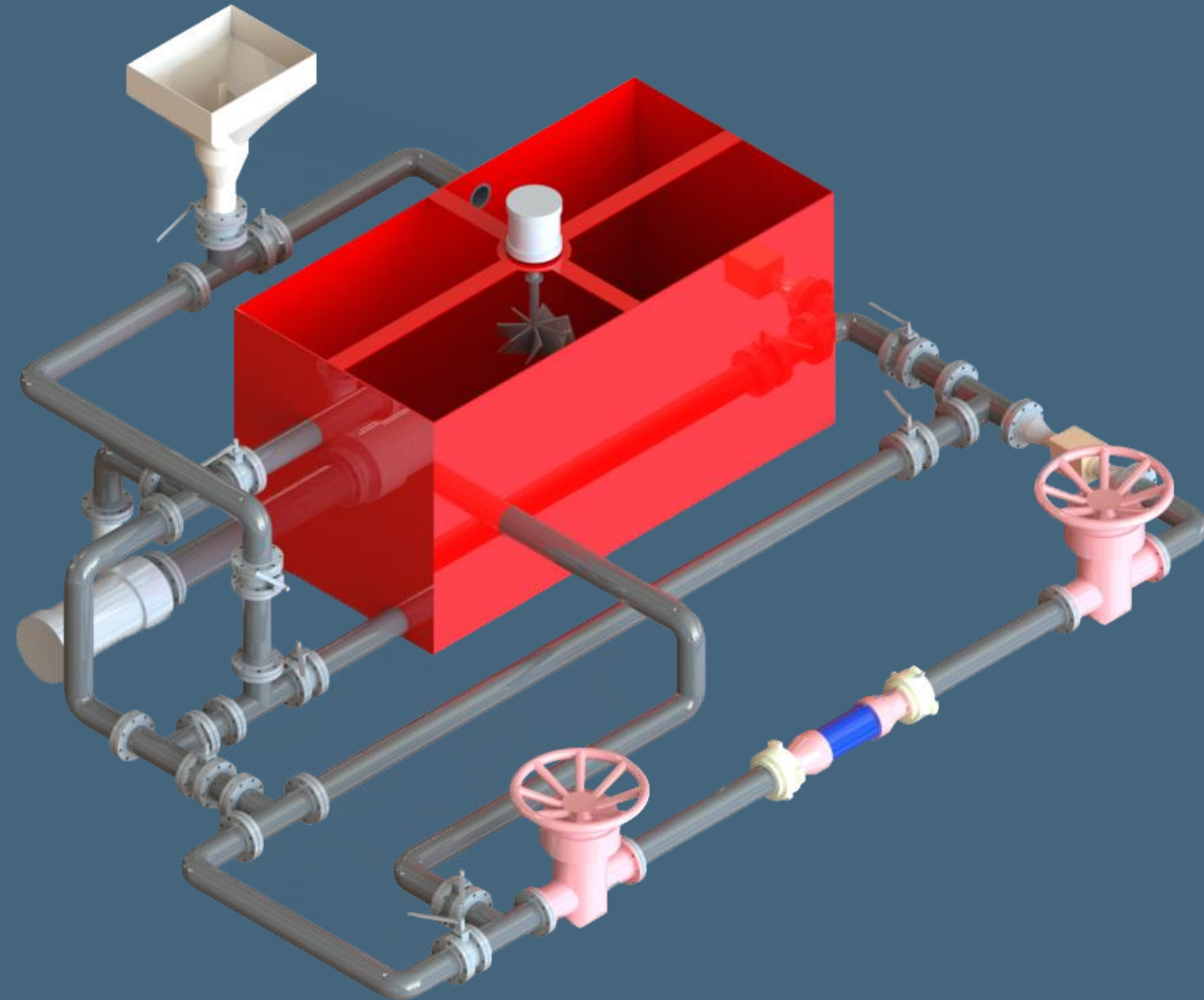
Digger follows API specification 10F 4th edition for design and manufacturing of float equipment.

Temperature Categories of static High-temperature Tests

Category	Temperature(°F)
T200	200
T300	300
T350	350
T400	400
Duration at temperature is no less than 8 continuous hours prior to testing to be held within $\pm 5\%$ for the duration of the test.	

Pressure Categories of High-pressure Tests

Category	Test pressure(Psi)
P1.5	1500
P3	3000
P5	5000
P7.5	7500
Control of pressure for this test shall be -0/+300Psi.	



CONVENTIONAL TOP PLUGS



CONVENTIONAL TOP PLUG
(MODEL : DR-TP)

- ❖ SIZE- 3 ½" TO 13 5/8"
- ❖ TEMPERATURE RANGE- 250° TO 400°F
- ❖ BUMP PRESSURE- 3000-7000 Psi
(size dependent)



ANTI-ROTATIONAL TOP PLUG
(CLUTCH TYPE)
(Model : DR-TP-AR)

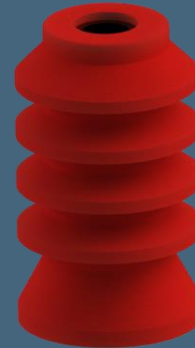
- ❖ SIZE- 3 ½" to 13 5/8"
- ❖ TEMPERATURE RANGE- 250° to 400°F
- ❖ BUMP PRESSURE- 3000-7000 Psi
(size dependent)



NON-ROTATING TOP PLUG
(FLOWER TYPE)
(Model : DR-TP-NR-FT)

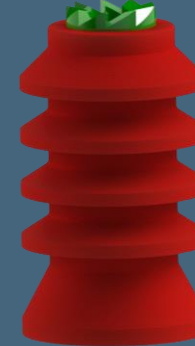
- ❖ SIZE- 3 ½" to 13 5/8"
- ❖ TEMPERATURE RANGE- 250° to 400°F
- ❖ BUMP PRESSURE- 3000-7000 Psi
(size dependent)

CONVENTIONAL BOTTOM PLUGS



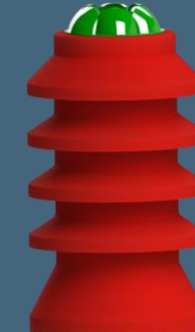
CONVENTIONAL BOTTOM PLUG
(Model : DR-BP)

- ❖ SIZE- 3 ½" to 13 5/8"
- ❖ TEMPERATURE RANGE- 250° to 400°F
- ❖ RUPTURE PRESSURE- 200-500Psi



ANTI-ROTATIONAL BOTTOM PLUG
(CLUTCH TYPE)
(Model : DR-BP-AR)

- ❖ SIZE- 3 ½" to 13 5/8"
- ❖ TEMPERATURE RANGE- 250° to 400°F
- ❖ RUPTURE PRESSURE- 200-500Psi



NON-ROTATING BOTTOM PLUG
(FLOWER TYPE)
(Model : DR-BP-NR-FT)

- ❖ SIZE- 3 ½" to 13 5/8"
- ❖ TEMPERATURE RANGE- 250° to 400°F
- ❖ RUPTURE PRESSURE- 200-500Psi

COMBINATION TOP PLUGS



CONVENTIONAL COMBINATION TOP PLUG
(Model : DR-CTP)

- ❖ SIZE- 3 1/2" to 13 5/8"
- ❖ TEMPERATURE RANGE- 250° to 400°F
- ❖ BUMP PRESSURE- 3000-7000 Psi
(size dependent)



ANTI-ROTATIONAL COMBINATION TOP
PLUG (CLUTCH TYPE)
(Model : DR-CTP-AR)

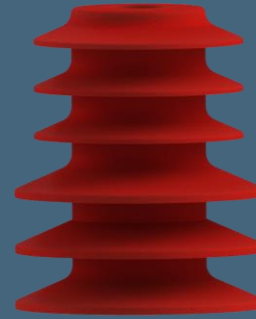
- ❖ SIZE- 3 1/2" to 13 5/8"
- ❖ TEMPERATURE RANGE- 250° to 400°F
- ❖ BUMP PRESSURE- 3000-7000 Psi
(size dependent)



NON-ROTATING TOP PLUG
(FLOWER TYPE)
(Model : DR-CTP-NR-FT)

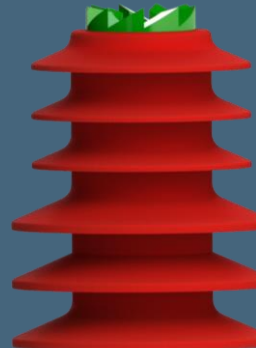
- ❖ SIZE- 3 1/2" to 13 5/8"
- ❖ TEMPERATURE RANGE- 250° to 400°F
- ❖ BUMP PRESSURE- 3000-7000 Psi
(size dependent)

COMBINATION BOTTOM PLUGS



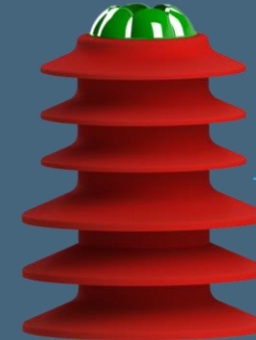
CONVENTIONAL COMBINATION BOTTOM
PLUG
(Model : DR-CBP)

- ❖ SIZE- 3 1/2" to 13 5/8"
- ❖ TEMPERATURE RANGE- 250° to 400°F
- ❖ RUPTURE PRESSURE- 200-500Psi



ANTI-ROTATIONAL COMBINATION
BOTTOM PLUG (CLUTCH TYPE)
(Model : DR-CBP-AR)

- ❖ SIZE- 3 1/2" to 13 5/8"
- ❖ TEMPERATURE RANGE- 250° to 400°F
- ❖ RUPTURE PRESSURE- 200-500Psi



NON-ROTATING BOTTOM PLUG
(FLOWER TYPE)
(Model : DR-CBP-NR-FT)

- ❖ SIZE- 3 1/2" to 13 5/8"
- ❖ TEMPERATURE RANGE- 250° to 400°F
- ❖ RUPTURE PRESSURE- 200-500Psi

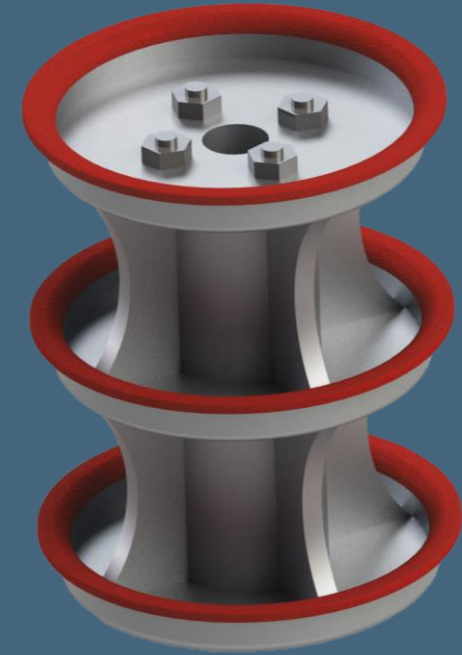
ALUMINIUM CORE TOP PLUGS



Model : DR-TP-AL

- ❖ AVAILABLE SIZES- 16" to 20"
- ❖ TEMPERATURE RATING- 250°F
- ❖ STANDARD- API 10TR6
- ❖ PDC DRILLABLE
- ❖ BUMP PRESSURE- 500 Psi
- ❖ CUSTOMISED AS PER CLIENT REQUIREMENTS.

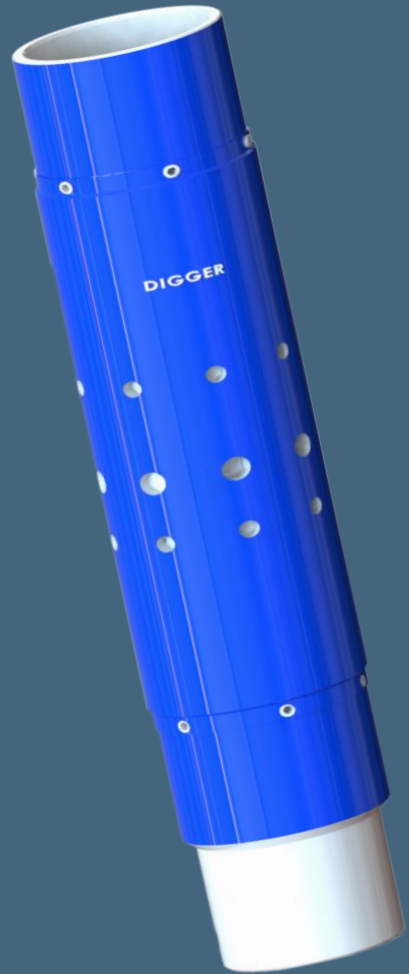
ALUMINIUM CORE BOTTOM PLUGS



Model : DR-BP-AL

- ❖ AVAILABLE SIZES- 16" to 20"
- ❖ TEMPERATURE RATING- 250°F
- ❖ STANDARD- API 10TR6
- ❖ PDC DRILLABLE
- ❖ RUPTURE PRESSURE- 200-500 Psi
- ❖ CUSTOMISED AS PER CLIENT REQUIREMENTS.

HYDRAULIC / MECHANICAL STAGE COLLAR



Model : DR-HSC / DR-MSC

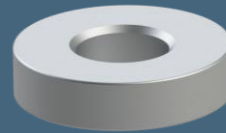
- ❖ One design for mechanical and hydraulic stage tools.
- ❖ Boasts a robust locking mechanism.
- ❖ Consistent shifting pressure.
- ❖ Adjustable shifting pressure through externally applied set screws.
- ❖ Standard seals rated for -15°F to +400°F and suitable for sour service and high-pressure gas environments.
- ❖ PDC drillable.
- ❖ Available Materials- L-80, L-80 13Cr, N-80, P-110, T-95, Q-125, C-90, C-110.
- ❖ Customized as per client requirements.



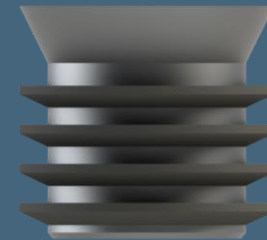
BY PASS PLUG
(FIRST STAGE
CEMENTING PLUG)



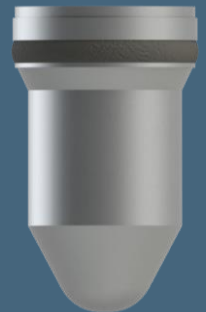
SHUT OFF PLUG
(FIRST STAGE
CEMENTING PLUG)



BAFFLE PLATE
(FIRST STAGE
CEMENTING PLUG)



CLOSING PLUG
(SECOND STAGE
CEMENTING PLUG)



FREE FALL OPENING PLUG
(SECOND STAGE
CEMENTING PLUG)

Completion Tools



MECHANICAL PACKERS (SERVICE TOOLS)

We manufacture all types of mechanical set packers, set by compression or tension for medium to high temperature/ high pressure well environments up to 350°F & 10,000 Psi differential.

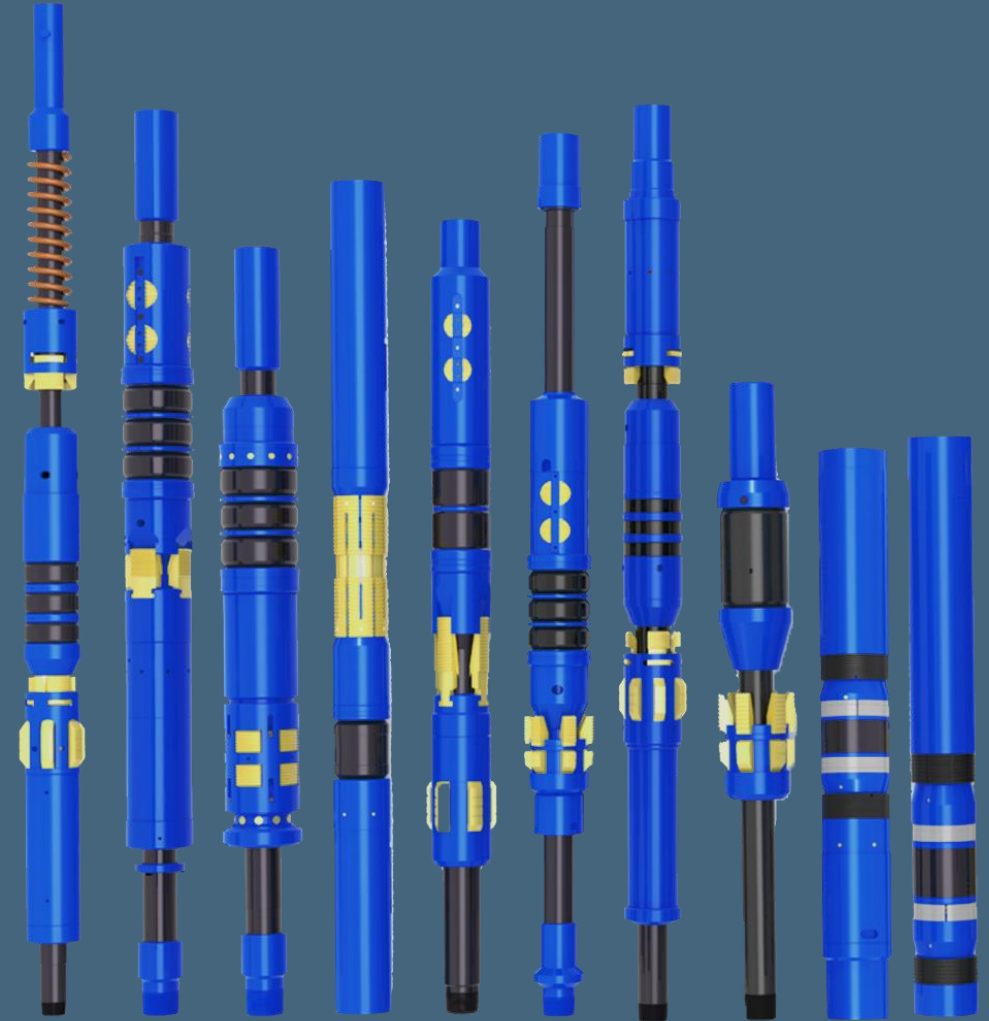
HYDRAULIC PACKERS (PRODUCTION PACKERS)

Our hydraulic set packers meet or exceed all your well requirements. Compatible from standard to sour well environments up to 400°F & 10,000 Psi differential.

SEAL BORE PACKERS & ACCESSORIES

We manufactures all types of seal-bore packers whether permanent or retrievable types, and related packer accessories are available to suit your well environment. Compatible from standard to sour well environments up to 400°F & 10,000 Psi differential.

PACKER SYSTEM



MECHANICAL PACKERS (SERVICE TOOLS)

DR-MPP-1, DR-MPP-2, DR-MPP-3 & DR-MPP-10 are mechanical production packers intended for a broad range of production applications.

Applications & Features:-

- ❖ Squeeze Cementing, Acidizing, Formation fracturing, Well Testing & Servicing.
- ❖ Holds high pressure differentials from above or below.
- ❖ The J-slot design allows easy setting and releasing; 1/4 turn right-hand set and straight pull release.
- ❖ Reliable Three-piece, Dual durometer sealing elements provide better pack off.
- ❖ Bypass valve is below upper slips so the debris is washed from slips when the valve is opened.
- ❖ Bypass valve opens before upper slips are released.
- ❖ Available in material conforming to NACE MR 0175 or H2S, CO2 well Environment services requirements.
- ❖ Available in All API & premium thread connections and Elastomers type.

Sizes Available : 4-1/2" Through 9-5/8" Casing OD



HYDRAULIC ACTUATED FULLY HYDROSTATIC SET PACKERS (PRODUCTION PACKERS)

DR-HPR-1, Double-grip Hydrostatic Single-String Packer, is a retrievable packer set by either the hydrostatic head of the well, tubing pressure, or both.

Applications & Features:-

- ❖ Run as a single packer.
- ❖ Run as a lower packer in multiple packer hook-ups using
- ❖ Dual or triple packers.
- ❖ Run as an upper packer in selective single string.
- ❖ Where displacing and setting is desirable after the well is flanged up.
- ❖ Where well conditions prohibit mechanically set packers.

Sizes Available : 4-1/2" Through 9-5/8" Casing OD



LARGE BORE HYDRAULIC PACKERS

DR-HPRL-4, Retrievable Packer is hydraulic set, large bore double grip Packer, used for Production, zone isolation, multiple string completions, commingling hook ups and for stimulation.

Applications & Features:-

- ❖ No Tubing Manipulation required: The setting mechanism of this Packer is activated with pump pressure. The Packer can be set after the well is flanged up and the tubing is displaced.
- ❖ The design of the setting mechanism ensures sustained pack-off force throughout life of the Packer. The tool does not depend on trapped hydraulic pressure, but mechanically locks initial setting forces into the packing elements. Setting activation pressure can be adjusted by dressing up with required number of Shear Screws .
- ❖ Opposed: Double grip slips prevent movement of the Packer in either direction due to pressure differentials.
- ❖ Multiple: Packing element system
- ❖ Straight Up strain release

Large Flow Path ID: 2.375 I.D. for 5" & 5 ½"



SEAL BORE PACKER

We manufacture a range of Drillable Permanent, and Retrievable & retainer Production seal bore packers. Our packers are rated for high performance permanent production of O&G. Drillable Series Packers can also be used as a high performance squeeze or as a permanent or temporary bridge plug.

Applications & Features:-

- ❖ Proven reliability
- ❖ Available in Single and Dual seal bore construction
- ❖ Slim-lined Solid construction that makes possible a significant savings in rig time by providing a faster run-in without fear of impact damage or premature setting.
- ❖ Two opposed sets of full-circle, full-strength slips.
- ❖ A packing element that resists swab off but packs off securely when the packer is set.
- ❖ A smooth, continuous ID sealing bore.
- ❖ Unique Interlocked expandable metal back-up rings that contact the casing creating a positive packing element extrusion barrier.
- ❖ Barrel slip construction for extended anchoring against tough casing

Sizes Available : 4-1/2" Through 9-5/8" Casing OD

DR-WSPP & DR-WDPP



DR-HSPP & DR-HDPP



DR-HRSBP



RETRIEVABLE BRIDGE PLUGS

We offer Retrievable Bridge plugs DR-RBP-M & DR-RBP-W. DR-RBP-M is a compression or tension set packer type, retrievable bridge plug. Where as DR-RBP-W is may be set on conventional wireline or hydraulic setting tools. The short design is easy to retrieve on tubing, coil tubing, using the appropriate retrieving tool.

Applications & Features:-

- ❖ Wellhead testing, Treating and testing multiple, selected zones, Deep, high-pressure testing, Squeeze cementing, Fracturing, Temporary zonal isolation.
- ❖ Running/Retrieving tools' internal collet prevents accidental loss of bridge plug.

Sizes Available : 4-1/2" Through 9-5/8" Casing OD

DR-RBP-M



DR-RBP-W



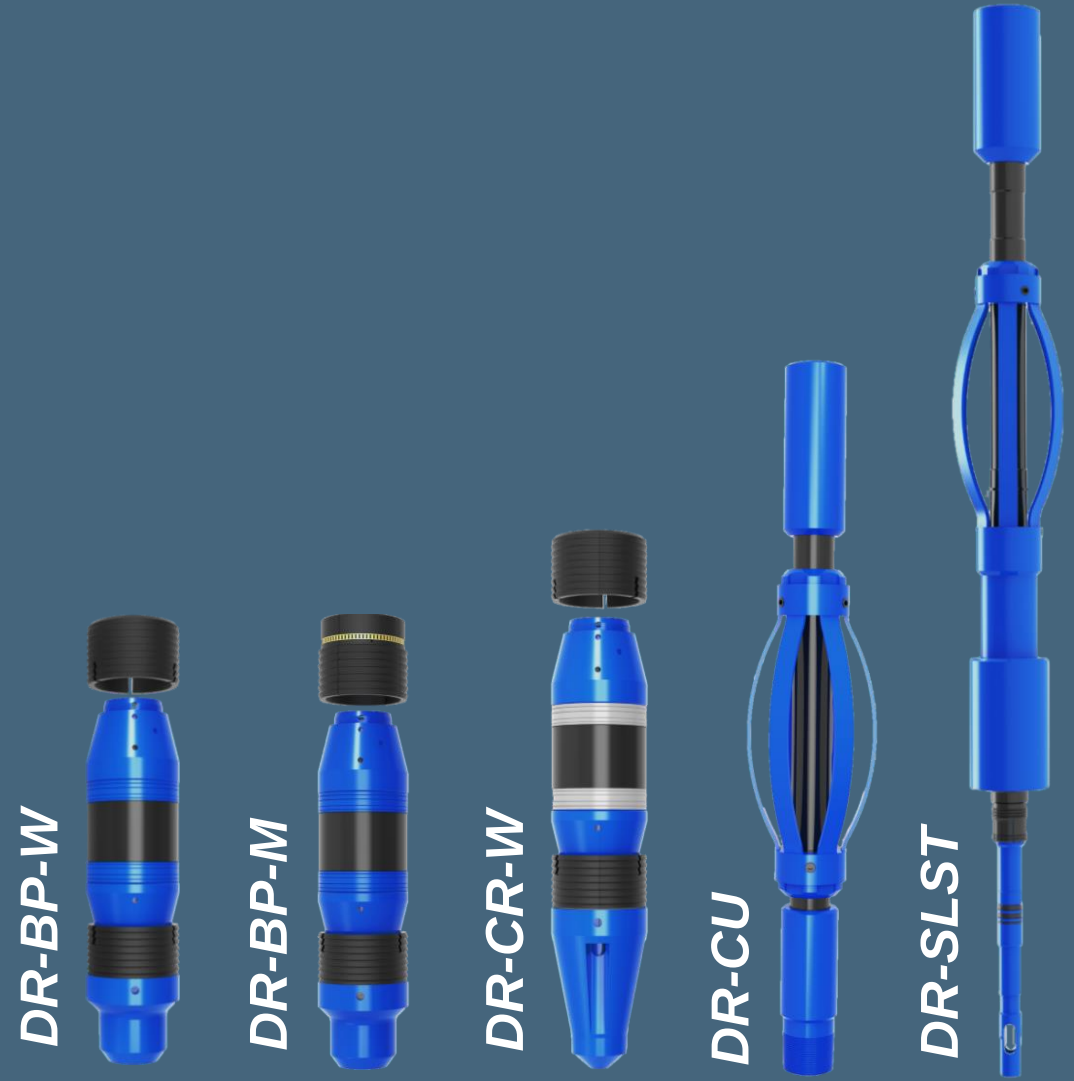
BRIDGE PLUGS & CEMENT RETAINERS

Our Wire-line / Mechanical Set Bridge Plugs and Cement Retainers are compact and designed for easy drill out in composite & Casted materials.

Applications & Features:-

- ❖ The one piece packing element and metal back up rings combine for a superior seal.
- ❖ Set Securely in most harden casing.
- ❖ Can be easily converted to Mechanical Cement Retainers, Wireline or Mechanical Set Bridge Plugs.
- ❖ Different elastomers are available for higher temperatures.
- ❖ Drillable, cast iron construction.
- ❖ Wire-line or hydraulically or Mechanical Set.
- ❖ Locking mechanism for ease in drilling multiple plugs.

Sizes Available : 4-1/2" to 20" casing sizes



HYDRO MECHANICAL BRIDGE PLUG

Hydro-Mechanical bridge plug is hydraulically actuated and mechanically-set compact with small OD. This tool can withstand high pressure and is designed for easy drill out. It can be used in zone isolation for squeeze cementing, fracturing, and plug and abandonment either temporary or permanent.

Applications & Features:-

- ❖ The setting mechanism and control are contained in the bridge plug eliminating the need for a complex mechanical setting tool.
- ❖ Eliminates the expense of wire line setting tool and equipment.
- ❖ Full tubing bore is available for unobstructed passage of fluids and wire line run perforating and logging equipment after the plug is set and tubing released.
- ❖ Can be run and set in tandem with retrievable production packers or squeeze packers.
- ❖ Top equalizing during drill-out without the plug coming up the hole due to pressures contained below the plug.
- ❖ Set securely in most casing, including many premium grades.

Sizes Available : 5-1/2", 7", 9-5/8" casing sizes



WIRELINER SET BIG BOY BRIDGE PLUG

The Big Boy Bridge Plug has proven to be a product that can be depended on. It has excellent running characteristics and secure sets. The plug can be set on different types of wireline pressure setting tools. The Big Boy is designed for rapid drill out while maintaining sufficient strength during the set. This plug can sustain high pressure and temperature conditions.

Applications & Features:-

- ❖ Electric wireline set
- ❖ Drillable
- ❖ Cast-iron construction
- ❖ One piece slips- hardened to depth of wicker only
- ❖ Sets in any grade casing including P-110
- ❖ Form fitting metal back ups prevent rubber extrusion
- ❖ For temporary or permanent service
- ❖ Ratcheting lock ring holds setting force

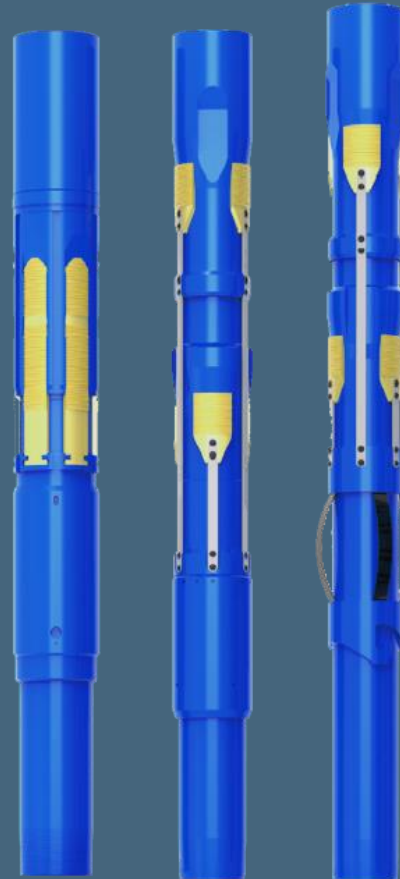
Sizes Available : 2-3/8" to 24" casing sizes



LINER HANGER SYSTEM

Liner hanger is used to hang a liner in the well. It is set by either mechanically or hydraulically with Rotating & Non-Rotating Features with all the running tools and accessories.

Sizes	Bearing Capacities	Flow Rate	Pressure Ratings
4-1/2" to 9-5/8"	115,000-230,000 lbs.	Up to 15 bpm	5000-10,000 psi depending upon the size



Hydraulic Liner Hangers

Hydraulic Set
Non Rotating
Liner Hanger

Hydraulic Set
Rotating Liner
Hanger

Hydraulic Set
Liner Hanger
Integrated Packer

Mechanical Liner Hangers

Mechanical Set
Single Cone **Non
Rotating** Liner
Hanger

Mechanical Liner
Hanger **Integrated
Packer**

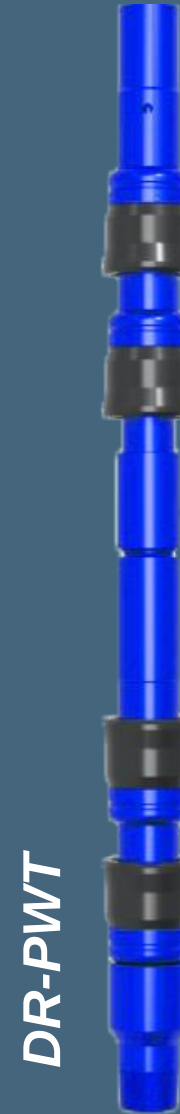
PERFORATION WASH TOOL

Perforation wash tool is for washing or acidizing perforations in casing and sand screens. It is also used for checking non-perforations, to verify injection rates and penetration, or for opening voids behind the casing for more effective gravel pack operations.

Applications & Features:-

- ❖ Isolates and cements through mechanical port collars
- ❖ Isolates and inflates annulus casing packers
- ❖ Inflates annulus casing packers and opens, cements, and closes a mechanical port collar in the same run
- ❖ Low carbon Alloy Steel (Standard Service).
- ❖ High Carbon Alloy steel (Max 3% Co@, and 500-700 PPM H2S) corrosion potential.
- ❖ Unique built-in spring loaded packing elements design permits flexible for multiple run, isolating a series of zones and enabling selected zonal testing and perforations in single run, protecting sensitive formations.
- ❖ By-pass communication allows to reverse circulate through annulus.
- ❖ Equalizing feature above and below the pack-off seals.

Sizes Available : 4-1/2" to 7-5/8" casing sizes



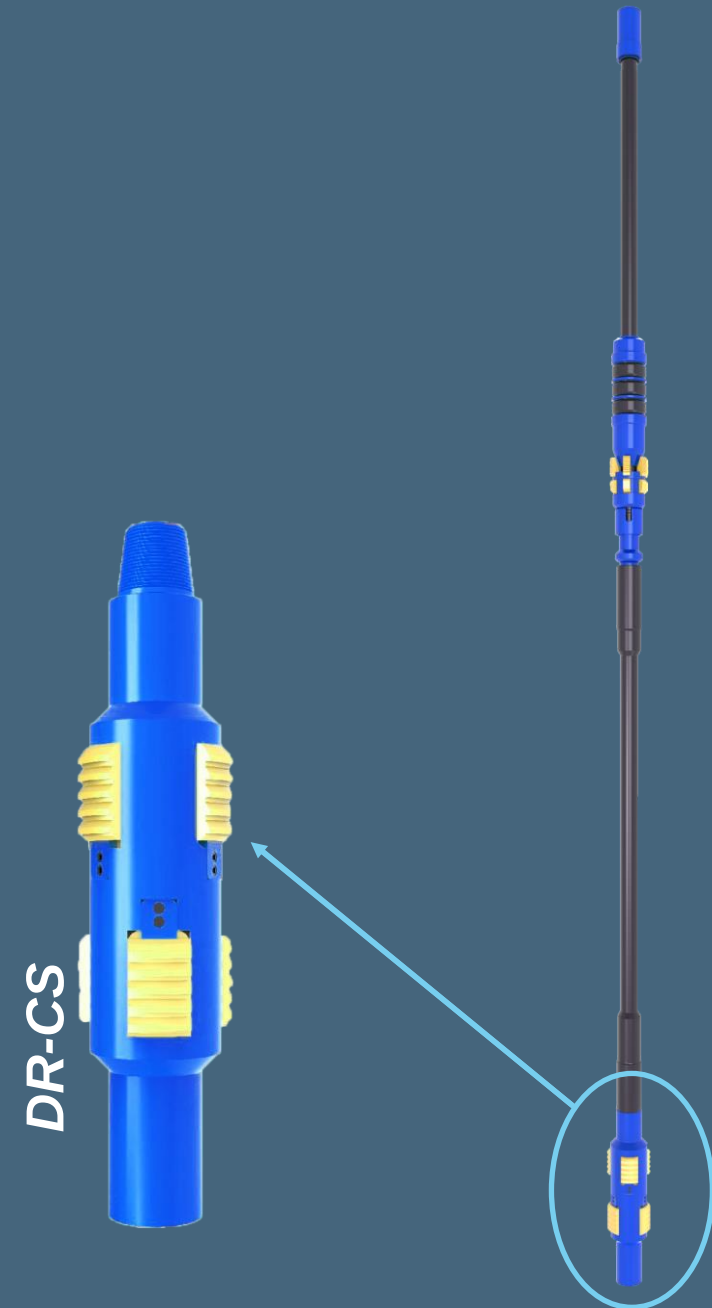
CASING SCRAPER WITH MECHANICAL PACKER

Casing Scraper is used to remove mud or cement sheath, imbedded bullets, perforation burrs, rust, mill scale, paraffin and similar substances from the inside walls of the casing.

Applications & Features:-

- ❖ Saves 2 trips.
- ❖ Rugged Construction
- ❖ The Casing Scraper operates successfully either when rotated or reciprocated vertically on Drill Pipe or Tubing.
- ❖ The angle and direction of shear of the scraping edges of the blades are such that the Scraper cannot “Screw” down past burrs as it rotates.

Sizes Available : 5-1/2" to 9-5/8" casing sizes

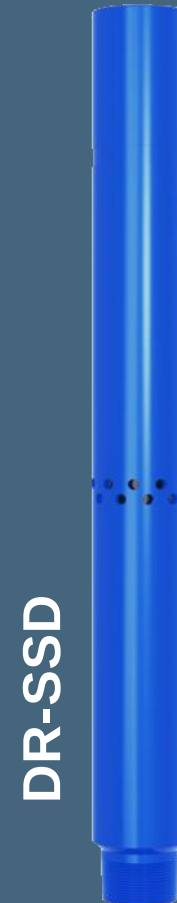


NON-ELASTOMERIC SLIDING SLEEVE

DR-SSD & DR-SSU Sliding Sleeves are high performance, equalizing sliding sleeves. When desired, the sleeve can be shifted open or closed using standard wire-line methods and a "DR-BO" type shifting tool. The sleeve is available in "DR-SSD downshift-to-open or "DR-SSU" up shift-to-open versions.

Features:-

- ❖ Specially designed to enhance seal performance and increase service life.
- ❖ Specially designed high strength thermoplastic Diffuser Ring prevents damage to the upper packing unit during shifting.
- ❖ The seal stack made from proprietary, high strength, non elastomeric compounds are chemically inert and 30 stronger than commercially available materials.
- ❖ Our seal compound acts as a lubricant, alleviating seal bonding problems.
- ❖ Mill slots replace drill holes as flow ports on both the housing and the insert to allow more flow area, reduce erosion and allow higher torque and tensile strengths through the sleeve.
- ❖ Locating the threaded connection inside the primary seal stack eliminates the need for O-ring thread seals and cuts the number of potential leak paths in half.
- ❖ Angled torque shoulder replaces traditional square shoulder to allow higher torques and reduce thread back off.
- ❖ Problems like galling, erosion corrosion are reduced by coating critical metallic components with proprietary surface treatments.



CROSS-COUPLING PROTECTOR

Digger manufactures the Cross Coupling Cable Protectors (Casted) to protect and support ESP cable, control lines and injection lines in the well bore for wells completed with artificial lift.

Features:-

- ❖ Available sizes- 2-3/8" to 5-1/2".
- ❖ Rapid installation
- ❖ The protector is of one-piece design/assembly with captivated cap screw and pre-engaged bolts to eliminate potential for detachment of bolts from the main protector body.
- ❖ No loose parts to fall out during or after installation.
- ❖ The protector is designed to withstand axial load of 30 tons and lateral load of 20 tons without slipping on the production tubing.
- ❖ All components used in the construction of the cable protector conform to NACE specifications MR-01-75 (latest edition) for sour service applications.
- ❖ Customized as per client requirements.



Model : DR-CCP

LUBRICANT & COMPOUND

THREAD COMPOUND:

It is a High Pressure thread compound that reduces the friction in the makeup of casing and tubing.

Features:-

- ❖ Wide operational temperature range.
- ❖ Highly chemical resistant.
- ❖ Reduced number of lubricants required.
- ❖ Highly resistant to oxidation.



THREAD LOCK:

It is commonly used for casing, tubing & drilling joints to prevent accidental detaching of string compound during operation.

Features:-

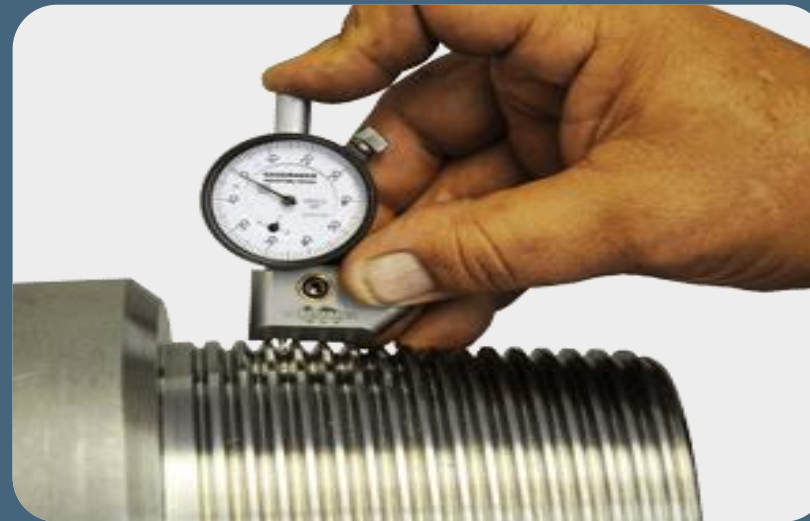
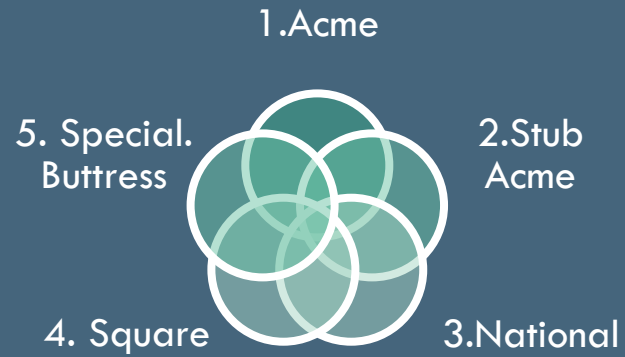
- ❖ Easy Mixing
- ❖ High Lubricity
- ❖ Leak Proof Seal
- ❖ Withstands high breakout torque



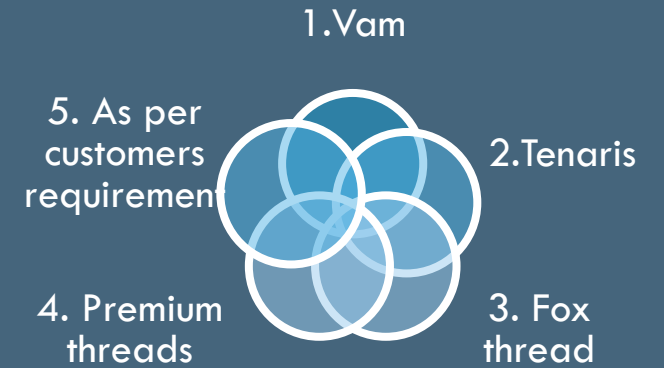
MANUFACTURING FACILITY - THREADING

STANDARD THREADS

API THREADS



OUT SOURCED THREADS

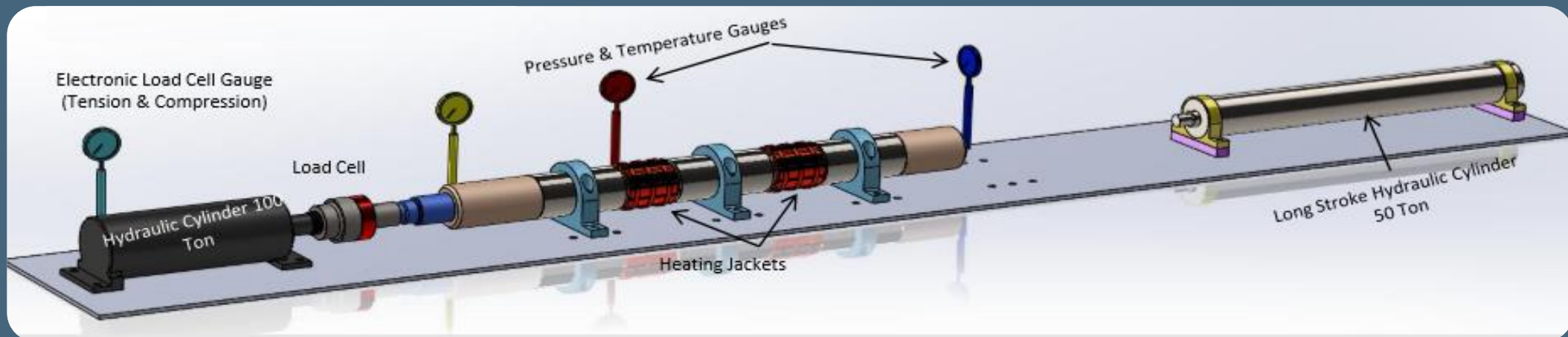


BRIDGE PLUG TESTING

SURFACE & SUBSURFACE TESTING (VERTICAL & HORIZONTAL) :-

Facility for testing of products in Oil & Gas medium, by simulating actual well conditions.

- ❖ Work in casing sizes from 4 1/2" To 9-5/8"
- ❖ Maximum Pressure: 10,000 PSI
- ❖ Maximum Load: 100 TONS
- ❖ Temperature: 400°F
- ❖ Well conditions are customized as per customer requirement



Health, Safety and Environment

Our HSE vision is Zero Tolerance on HSE Policies.

HSE Strategy:-

- ❖ Conducting business that protects public and occupational health, environment and employee safety.
- ❖ Striving to eliminate all accidents and environmental incidents.
- ❖ Making HSE considerations a priority in manufacturing
- ❖ Complying with all HSE laws and regulations.
- ❖ Encouraging constructive communication about managing HSE issues among all employees, and associate vendors.



Our Advantages

- ❖ **Emergency Release System** in most of the Downhole Equipment.
- ❖ **Low Cost and in time delivery** with No compromise to **Quality**.
- ❖ Products are advised as per the customer requirements to **save rig time & resources**.
- ❖ **Product Development or Specialized Tools** may be customized suiting the site and well conditions
- ❖ Continual Improvement in **Product Performance** by Regular Feedback Review
- ❖ A Huge Experience in Oil & Gas Equipment **Manufacturing & Servicing**
- ❖ **Constant Improvement** with our current tools portfolio and new developed tools technology





THANK YOU



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