



CRIMSON OIL TOOLS PVT. LTD.

An API SPEC 10D-0053, ISO-9001 and OHSAS-18001 Certified Company



**Design & Manufacturing
Oil Field Down Hole Drilling
& Cementing Equipments**

www.crimsonoiltools.com

About us

Crimson Oil Tools Pvt. Ltd. is built with one goal in mind: to design, manufacture and supply the superior Down Hole Drilling Cementing Solution to the oil and gas industry on which the clients can trust.

The Perfect design, manufacture and supply of the superior Down Hole Drilling Cementing solution to the oil and gas industry with prospective buyers!! These are the basic aspects of the Crimson oil Tool Pvt. Ltd.

We are a private limited organization of oil and Gas Accessories Manufacturer occupied with Design, Manufacture and supply of a complete scope of amazing down hole Drilling and Production Oil Tools for the oil & Gas Industries.

In the present era, global appeal is the pre-requisite for every business and is to beat this on-going competition. Crimson oil Tool Pvt. Ltd. deals in manufacturing of modern products using the machines like CNC, Drilling & Tapping, Lathe, Power press, Hardness Tester, Assembly & Height making, UTM and Profile Projector with the help of the skilled professional experienced team and latest techniques and technologies.

Objectives of creating multifaceted online sales of Oil and Gas products :

Provide the excellence manufactured goods as per the worldwide principles set by the API. Manufacturer and Seller of premium quality products, designed with latest techniques and modern facilities

Crimson Oil Tool Pvt. Ltd. has the expertise, manufacturing team which has the best engineers in the industry as a result; we give a tough competition in price with a wide range of quality products. We are only answer that is committed to providing you a universal platform where innumerable services are given to the suppliers, exporters and importers. We value organization and provide products for the benefits of our making proper utilization of resources money with an aim development for the market.

Our Licensing

Crimson Oil Tools Pvt. Ltd. is API 10D, ISO-9001, ISO-14001 and OHSAS-18001 Certified Company. Our workmanship fabricating office is furnished with overhauled innovation that demonstrates a general limit of assembling operation. Our inventory network is proficient to meet on time universal quality measures of "Zero Tolerance" to the Oil Gas Industries.

Our Mission and Vision

Our Mission is to provide an exceptional platform where we can transparently and successfully serve our customers with the latest technology products at reasonable cost. Our vision is to provide the best quality products to our gas suppliers and business associates with our par-excellence services

Key Strengths

We espouse technically transformed to endow your business with new dimensions and also provide basic products like Casing, Cementing Accessories and Float Equipments. We embrace the most modern updates of technologies to develop your business worldwide by manufacturing a highly reliable product. We are separated from assuming the noteworthy parts of giving quality checking & follow capability; we resolve to give convenient supply of Quality Products & Services at aggressive costs by PDCA approach for Continual Improvement in our Manufacturing Processes.



FLOATEQUIPMENT

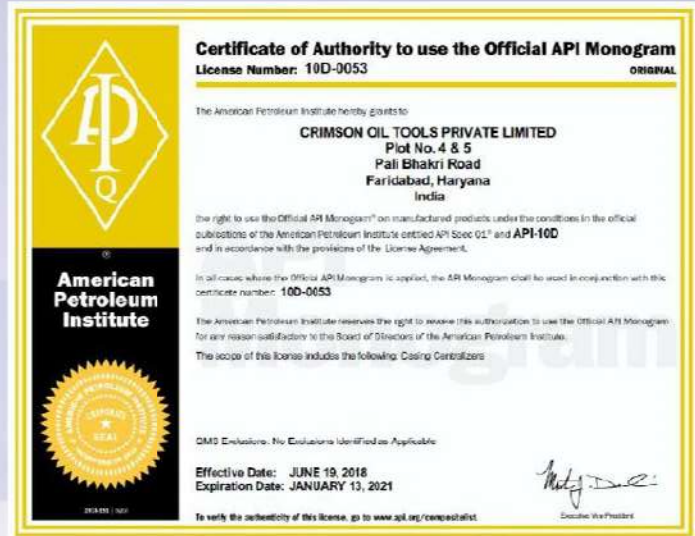
CRIMSON welcome you its world of precision, quality and service. A world which has existed for the last two decades providing excellence in engineering and continuous improvement in quality of product and processes.

Serving the cause of the global Oil and Gas Industry Crimson manufacturers a wide range of primary cementing equipments confirming to API10D specifications under license from the American Petroleum Institute

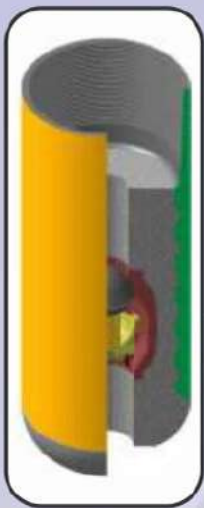
Aligning itself with global industry requirements the company strictly adheres to ISO 9001 systems and procedures.

One of the world's leading primary cementing products manufacturer, Crimson has a state of the art manufacturing plant spread on 150,000 square feet, equipped with fully with fully automatic robotic welding machines, digitally controlled heat treatment facilities, a fully automatic epoxy powder coating plant, mechanical and hydraulic presses up to 300 tonnes, In house engineering design and development department with fully equipped testing facility as per API10D requirement.

we are geared to enhance quality of the products through constant technological up gradation and offering new innovative solutions for our customers' needs. As a result Crimson has earned a solid reputation for strict adherence to highest quality and on time delivery with its customers.



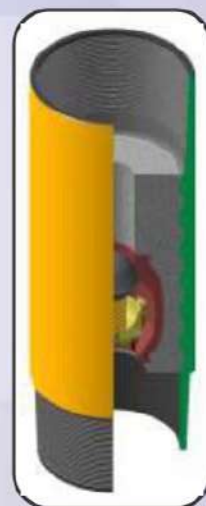
FLOATEQUIPMENT



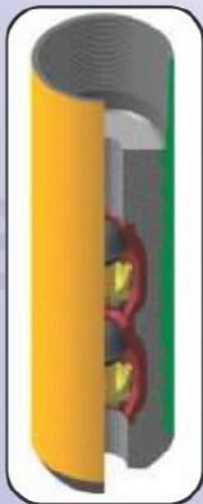
**Single value
Cement Float Shoe**

CRIMSON poppet valve type float shoe is designed with a spring loaded valve and constructed from special high-strength material and PDC drillable. The Shoe's rounded nose assists the running of casing in horizontal or Deviated. When landing the casing, the drill fluid have no resistance to float shoes. The pressure of circulating mud make the valve head down a displacement, the disc of valve rod's end will fall off automatically; after stop pumping, the valve press the valve seat upwards under the action of spring, the float valve becomes one-way valve. So that can pump the drilling fluid and cement slurry into it from up to down, but the fluid in the casing or outside casing annulus can't be return to prevent from back flow. Nose area is designed with combination of both concrete and aluminium. Internal parts are made of high quality material to achieve high strength and PDC drillable. Cement floatequipment are available in all grades of steel like J-55, K-55 L-80, N-80 C-90, T95, P-110, Q125. Crimson Cement Float Shoe are available for casing Sizes 3 1/2" to 30"

Cement Float Collar: The using method is the same as float shoes except the lower end is pin Thread. It is connected with casing. High strength concrete for maximum resistance to circulating erosion, as well as bump and backpressures . The usage of float collar is to make the casing landing easily by reducing the loading. When landing the casing, make sure to prevent from the drill fluid flow into the casing. After cementing, the float collar can prevent the cement slurry returning to the casing.. Internal parts are made of high quality material to achieve high strength and PDC drillable. The Float Collar are also available in Non-Rotating Plate that is require with Non Rotating Cementing Plugs. Crimson Cement Float Collar are available for casing Sizes 3 1/2" to 30"



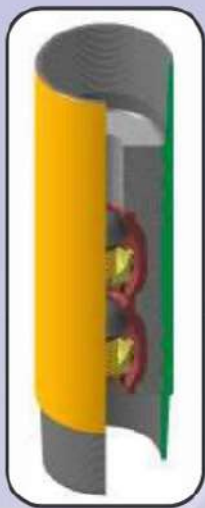
**Single value
Cement Float Collar**



**Double value
Float Shoe**

The Double Valve Float Shoe has all of the Features of The Standard Cement Float Shoe and Provides the added assurance of sealing when debris prevents the upper valve from closing. Nose area is designed with combination of both concrete and aluminium. Internal parts are made of high quality material to achieve high strength and PDC drillable. Double Valve Float Shoe are also available in Side -jet , Down-jet Port. Crimson Double valve Float are available for casing Sizes 3 1/2" to 30"

FLOAT EQUIPMENT

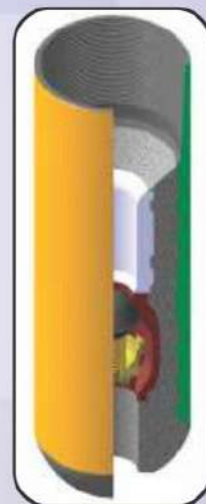


**Double valve
Float Collar**

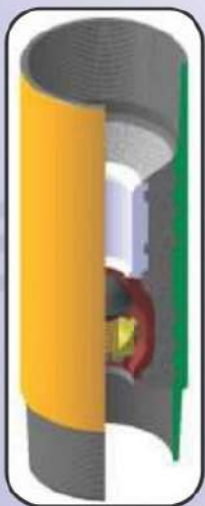
The Double Valve Float Collar has all of the Features of The Standard Cement Float collar and Provides the added assurance of sealing when debris prevents the upper valve from closing.. Internal parts are made of high quality material to achieve high strength and PDC drillable. The Double Valve Float Collar are also available in Non-Rotating Plate that is require with Non Rotating Cementing Plugs. Crimson Double Valve Float Collar are available for casing Sizes 3 1/2" to 30"

Stab-in float shoe have the features of high-temperature, good sealed, drillability and connecting easily. It is used in general technical casing and oil-string casing,also used in deep well,extradeep well and special technology well. Stab in Float shoe is designed with a taper in the top of the concrete to guide the adapter on the bottom of the inner-string into the receiver incorporated in the float shoe or collar.

Stab-in float shoe belongs to inner string cementing range,it insists of shell, cement, self-motion grout valve, stab-in sub, O ring and stab-in pipe carrier. Its structure and operating principle are same to Casing float shoes, its feature: cementing in big diameter casing, through drill pipe inserts into the stab-in pipe carrier of stab-in shoe to achieve well cementing,this method can reduce wasting cement and avoid in using big diameter plugs in general cementing well,in order to achieve goal of economic and efficient.Internal parts are made of high quality material to achieve high strength and PDC drillable. The Stab-in Float Shoe are also available in Double Valve , Side and down- jet Port. Crimson Stab-in Float Shoe are available for casing Sizes 9 5/8" to 30"



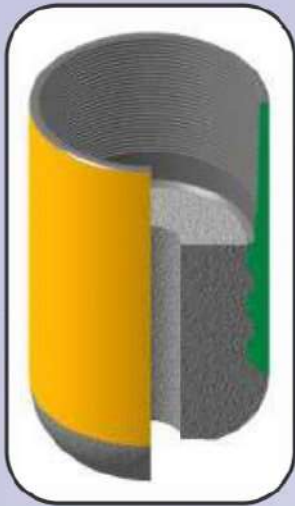
**STAB-IN
FLOAT SHOE**



**STAB-IN
FLOAT COLLAR**

STAB-IN Float Collar: The using method is the same as Stab-in float shoe except the lower end is pin Thread. It is connected with casing. Crimson offers inner string cementing equipment with or without a latch-in feature on the stinger. This equipment provides all the benefits that come with inner-string cementing through a float collar, including the option to run one or more shoe joints and the option to displace cement below the float collar without creating a "wet shoe." Internal parts are made of high quality material to achieve high strength and PDC drillable. The Stab-in Float collar are also available in Double Valve . Crimson Stab-in Float collar are available for casing Sizes 9 5/8" to 30"

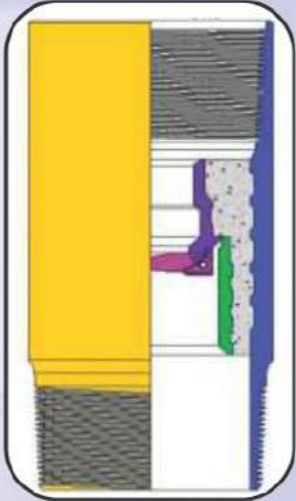
FLOAT EQUIPMENT



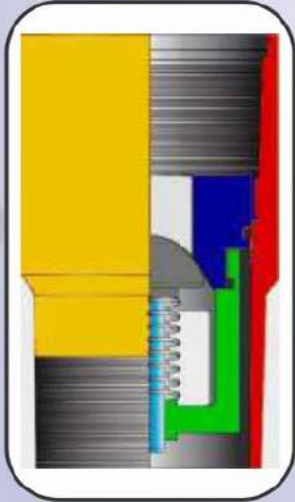
**CEMENT
GUIDE SHOE**

The rounded Cement nose with a generous radius which assures smooth running. Both have flat-finished concrete tops to provide strong surfaces for landing cement plugs. The Cement Maximizes Shock Resistance and Minimizes drill-out time. This Guide Shoe may be used in combination with any type of collar. All cement guide shoes are PDC drillable. Crimson Cement Guide Shoe are available for casing Sizes 3 1/2" to 30"

Crimson Flapper-Type Float Collar is designed for use where spring-loaded float equipment is required. This equipment is particularly well-suited for holes where the hole is not filled with fluid prior to running casing and for use where circulation is not needed to wash away bridges or condition the hole prior to cementing. The heavy-duty aluminium flapper valve is mounted on an aluminium disk and is seated firmly against a 1/4" inch rubber seat by the valve spring. The flapper valve and valve seat are designed to provide a firm seal when the valve is closed. The back-pressure flapper valve seals where circulation is stopped. Crimson Flapper Type Float collar are available for casing Sizes 3 1/2" to 20"



**Flapper type
Float collar**



**Aluminum Plunger
Type Float Collar**

Float Shoe and Collar Options



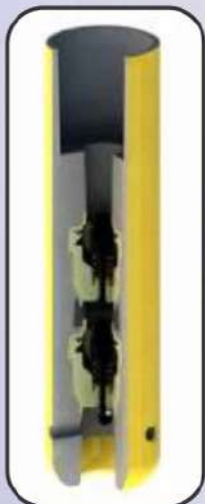
Aluminum Bullet Nose



Eccentric Nose



Aluminum Spade Nose



Side Ports



Down-Jets



Up-Jets

PERFORMANCE IS EVERYTHING

FLOATEQUIPMENT

DESIGN FEATURES:
TOOL IS OPENED HYDRAULICALLY WITH PRESSURE APPLIED INSIDE THE CASING*
AVAILABLE IN CONVENTIONAL (ELASTOMER) OR IN BALL SEAL STYLES
BACK-UP OPENING CONE AVAILABLE UPON REQUEST
OPENING PRESSURES CAN BE ADJUSTED TO SUIT ALL SCENARIOS
CLOSING SLEEVE LOCKS IN PLACE ONCE CLOSED
ANTI-ROTATIONAL DEVICES ENHANCES DRILL-OUT

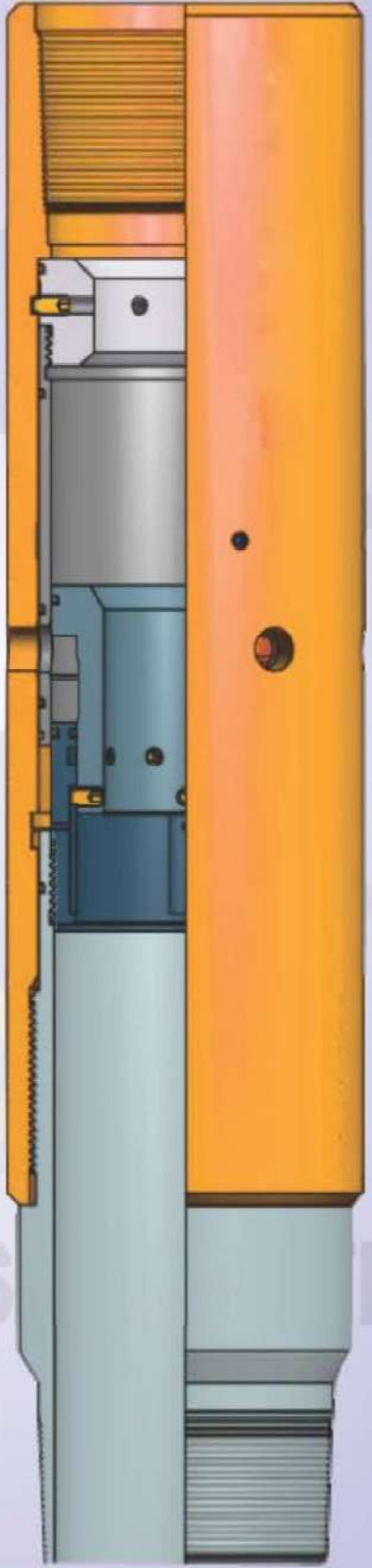
CLOSING PLUG



FREE FALL OPENING CONE (FOR BACKUP ONLY)



SHUT OFF PLUG & BAFFLE



HYDRAULIC STAGE CEMENTING TOOL

FLOATEQUIPMENT



ECCENTRIC SHOE



SPIRAL VANES
FOR NON AGGRESSIVE
REAMING ACTION

DIAMOND SHAPED TIPS
FOR TIGHT SPOTS

ECCENTRIC NOSE
FOR GUIDING CASING TO
TOTAL DEPTH

REAMER SHOE

CEMENT RUBBER PLUGS



CEMENTING RUBBER PLUGS

CRIMSON has designed its plastic core and aluminium core cementing plug to complement its line of plugs to decrease drill out times. The cementing plug is used for separating the cement slurry from the mud. It can prevent the mud from blending into the cement slurry to influence the cementing quality.

Structure features: The top plug is solid. The bottom plug is hollow. They can all be drilled out with PDC bits. The material of the plug body is acrylonitrile-butadiene rubber. It is heat-resisting and tough. The core is made of a glass-filled high strength phenolic resin core. The tapered base fits the cavity of the bottom plug for a positive seal. The fins and tail section provide positive wiping action. Fins also serve as a seal while cementing. A rubber diaphragm at the top of the plug ruptures after the plug is seated, allowing cement to flow through.

The Cementing rubber plugs are available in sizes 4 1/2" to 20".

NON-ROTATING CEMENTING PLUG



The Non-Rotating Top & Bottom Cementing Plugs are designed to decrease drill out time. When the drilling fluid makes the bottom plug move into the end, the raised plum flower petal of the bottom plug's lower end engages with the hollow plum flower petal of the float collar's upper end. At the same time, the pressure rises. When it reaches the definite pressure, the burst disk in the bottom plug crushes, the passageway opens, and the pump pressure descends. At this time, cementing can occur. After cementing, pumping into the top plug to clean cement slurry on the inner wall, the raised plum flower petal of the top plug engages with the hollow plum flower petal of the bottom plug. The Non-Rotating Cementing plugs are available in sizes 4 1/2" to 20".



LATCH DOWN WIPER PLUG

The latch-down wiper plug and baffle may be used with most conventional floating equipment, but they are most commonly used in small-diameter tubing for inner-string cementing. The Wiper Plug with integrated Ball Seat and drill pipe darts is a liner wiper plug system designed to displace well fluids and cement both efficiently and accurately. The Liner Wiper Plug is attached to the Liner Hanger Setting Tool in the Liner. The Ball Seat is located in the Wiper Plug to build up pressure to the Liner running string for setting the Hydraulic Liner Hanger. When the Liner Hanger is set, the Ball Seat can be pumped out and is captured in a catcher at the bottom of the Liner Wiper Plug. The wiper plug system is to act as a mechanical barrier to avoid the contamination of the cement with mud inside Drill Pipe and Liner. The wiper plug in front of the cement column wipes and cleans the inside of the Liner prior to contact with cement and the second plug after the cement column. The wiper plugs will hold in place in an adapter until the darts will release the wiper plugs. At the end of the displacement, the wiper plug bumps on the landing collar above the shoe-track at the bottom of the liner.

All components of Latch down Wiper Plugs are PDC drillable and the Wiper blade sizes can be adjusted to wipe multiple ID's of various drill string configurations. Baffle plates can also be ordered for threaded casing collars. It is available in casing sizes 4 1/2" through 13 3/8" and tubing sizes 2 3/8" through 4 1/2".

CEMENT RUBBER PLUGS



SELF LOCKING

CRIMSON has designed its plastic core and aluminium core cementing plug to complement its line of plugs to decrease drill out times. The cementing plug is used for separating the cement slurry from the mud. It can prevent the mud from blending into the cement slurry to influence the cementing quality. Structure features: The top plug is solid. The bottom plug is hollow. They can all be drilled out with PDC bits. The material of the plug body is acrylonitrile-butadiene rubber. It is heat-resisting and tough. The core is made of a glass-filled high strength phenolic resin core. The tapered base fits the cavity of the bottom plug for a positive seal. The fins and tail section provide positive wiping action. Fins also serve as a seal while cementing. A rubber diaphragm at the top of the plug ruptures after the plug is seated allowing cement to flow through.

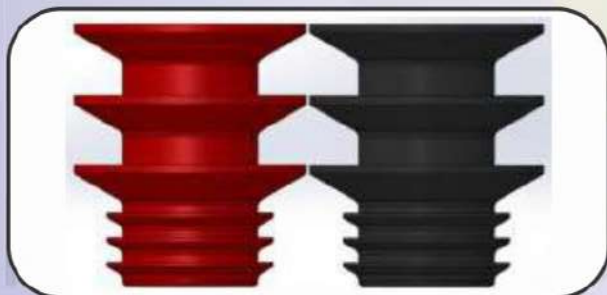
The Cementing rubber plugs are available in sizes 4 1/2" to 20".

ALUMINIUM CORE CEMENTING PLUG



The Non-Rotating Top & Bottom Cementing Plugs are designed to decrease drill out time. When the drilling fluid makes the bottom plug move into the end, the raised plum flower petal of the bottom plug's lower end engages with the hollow plum flower petal of the float collar's upper end. At the same time, the pressure rise, when it reaches the definite pressure, the burst disk in the bottom plug crushes, the passageway opens, and the pump pressure descends, at this time cementing. After cementing, pumping into the top plug to clean cement slurry on the inner wall, the raised plum flower petal of the top plug engages with the hollow plum flower petal of the bottom plug.

The Non-Rotating Cementing plugs are available in sizes 4 1/2" to 20".

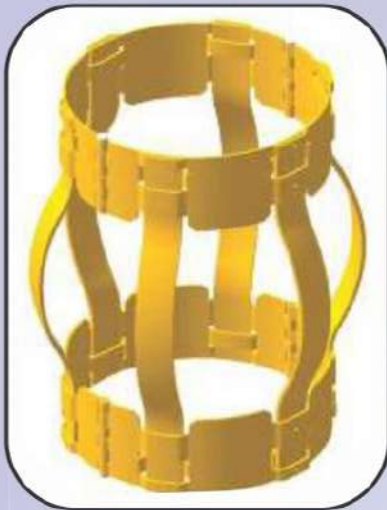


COMBINATION CEMENTING PLUG

The latch-down wiper plug and baffle may be used with most conventional floating equipment, but they are most commonly used in small-diameter tubing for inner-string cementing. The Wiper Plug with integrated Ball Seat and drill pipe darts is a liner wiper plug system designed to displace well fluids and cement both efficiently and accurately. The Liner Wiper Plug is attached to the Liner Hanger Setting Tool in the Liner. The Ball Seat is located in the Wiper Plug to build up pressure to the Liner running string for setting the Hydraulic Liner Hanger. When the Liner Hanger is set, the Ball Seat can be pumped out and is captured in a catcher at the bottom of the Liner Wiper Plug. The wiper plug system is to act as a mechanical barrier to avoid the contamination of the cement with mud inside Drill Pipe and Liner. The wiper plug in front of the cement column wipes and cleans the inside of the Liner prior to contact with cement and the second plug after the cement column. The wiper plugs will be held in place in an adapter sub until the darts will release the wiper plugs. At the end of the displacement the wiper plug bumps on the landing collar above the shoe-track at the bottom of the liner.

All components of Latch-down Wiper Plugs are PDC drillable and the Wiper blade sizes can be adjusted to wipe multiple ID's of various drill string configurations. Baffle plates can also be ordered for threaded casing collars. It is available in casing sizes 4 1/2" through 13 3/8" and tubing sizes 2 3/8" through 4 1/2".

BOW SPRING CASING CENTRALIZERS



HINGED NON-WELD BOW CENTRALIZER

crimson offers a complete range of Non Weld Bow spring Centralizers which are designed and manufactured as per API Spec 10D. Non Weld Bow centralizers are used to position the casing in the centre of the well bore in vertical, deviated as well as horizontal wells. The Non Weld Bow Centralizers combine the highest Non Weld Centralizer restoring force with the lowest starting force. High quality Bows made of special alloy steel with uniform hardness provide optimum performance. The bows with extended profile prevent them from hitting against casing collars. The bows are available in a range to accommodate any well profile. Hinge locking pins are of high strength steel for maximum structure also burst ness. Bows are then Flattened several times on a special machine to get permanent setting. Bows can be configured for any hole Size from choice of five standard bow heights for optimum starting and restoring forces. Non Weld design features self-locking of lips for holding bows to end collars. Centralizers undergo a special process of rust prevention before powder coating. The Non Weld Bow spring centralizers are available in sizes 4½" to 24". Recommended for use with all standard casing grades.

CRIMSON Hinged Welded bow spring centralizer is designed with very low starting and running force while giving the substantial restoring force. These centralizers are designed to exceed the performance requirements of API Specification 10D for both starting and restoring forces. High quality Bows made of special alloy steel with uniform hardness provide optimum performance. The bows with extended profile prevent them from hitting against casing collars. The centralizers have spring Bows strongly welded onto the outside of the end collars under required temperature and condition with correct grade electrode. Design and processing features for hinges, hinge pins, bow springs are similar as non weld bow spring centralizers. Centralizers undergo a special process of rust prevention before powder coating.

The Hinged Welded Bow spring centralizers are available in sizes 4½" to 20". Recommended for use with all standard casing grades.

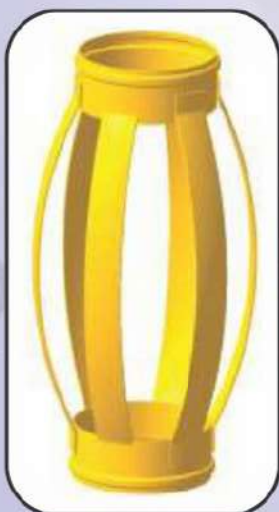
The Non Rotating Cementing plugs are available in sizes 4 1/2" to 20".



HINGED WELDED BOW CENTRALIZER

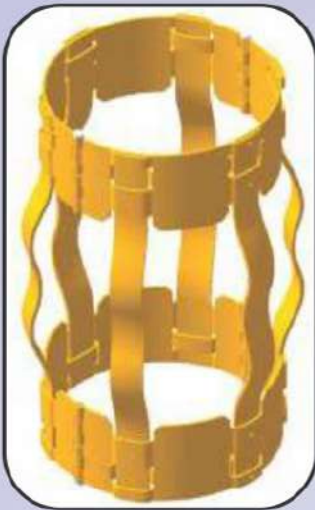
Crimson welded slip On bow centralizer Operational and general design features are the same as Hinged Welded bow Centralizers. The centralizers have spring bows strongly welded onto the outside of the slip-on end collars under required temperature and condition with correct grade electrode. These centralizers are normally run between two stop collars or over a slip-on type stop collar to provide the casing / liner a smooth bearing surface. Centralizers undergo a special process of rust prevention before powder coating.

The Slip On Welded Bow spring centralizers are available in sizes 4½" to 20". Recommended for use with all standard casing grades.



Slip On Welded Bow centralizer

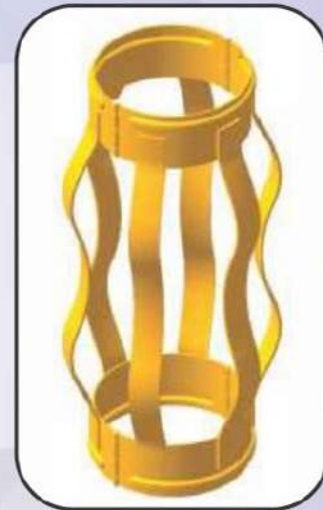
BOW SPRING CASING CENTRALIZERS



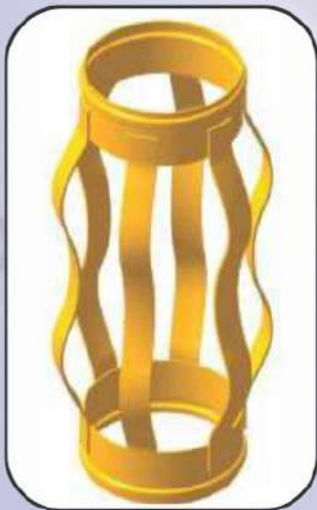
This Crimson product features uniquely profiled bows that simultaneously provide the operator with those features found desirable in both spring bow and rigid centralizers. The result is a centralizer that far exceeds the performance standards set forth in API Specification 10D. The spring characteristics of its double crested profile permit compression to facilitate movement through tight spots and dog legs. High quality Bows made of special alloy steel with uniform hardness provide optimum performance. The bows with extended profile prevent them from hitting against casing collars. The bows are available in a range to accommodate any well profile. Semi Rigid Bow Centralizers undergo a special process of rust prevention before powder coating. Hinged Non Weld Semi Rigid Bow centralizers are available in sizes 4½" to 20". Recommended for use with all standard casing grades.

Hinged Non Weld Semi Rigid Bow Centralizer

Crimson Hinged Welded Semi Rigid Bow Centralizers has the ability to withstand high lateral load encountered. The spring characteristics of its double crested profile permit compression to facilitate movement through tight spots and dog legs. The centralizers have Semi Rigid Bows strongly welded on to the outside of the end collars under required temperature and condition with correct grade electrode. The End Collars are designed with a reinforcing Rib stamped into the End Collar to give maximum structural toughness. Semi Rigid Bow Centralizers undergo a special process of rust prevention before powder coating. Hinged Welded Semi Rigid Bow centralizers are available in sizes 4½" to 20". Recommended for use with all standard casing grades.



Hinged welded semi rigid bow centralizer



Slip On Welded semi rigid bow centralizer

Crimson Slip on welded Semi Rigid Bow Centralizers has the ability to withstand high lateral load encountered. The spring characteristics of its double crested profile permit compression to facilitate movement through tight spots and dog legs. The centralizers have Semi Rigid Bows strongly welded on to the outside of the end collars under required temperature and condition with correct grade electrode. The End Collars are designed with a reinforcing Rib stamped into the End Collar to give maximum structural toughness. Semi Rigid Bow Centralizers undergo a special process of rust prevention before powder coating. Slip on welded Semi Rigid Bow centralizers are available in sizes 4½" to 20". Recommended for use with all standard casing grades.

BOW SPRING CASING CENTRALIZERS



**Hinged Non-Welded
Bow Spring Turbolizer**

Crimson Non Weld Turbolizer with metal fins installed on the bows to help induce turbulence in the cement slurry during pumping operations. Like the spring bows, the fins are made of heat-treated alloy steel. This makes them flexible, which minimizes damage while moving downhole. Meet API Specification 10-D requirements for Starting, Running and Restoring Force in most casing and hole combinations. The fins direction can be made in both right and left hand versions to assist in the uniform displacement of the cement. Collars are of widened design for greater frame strength and to prevent bows hitting casing. Integral hinges are designed to wrap to the inside and are with eight sections and seven shear points for minimum disorientation even under severe stress.

Turbolizers are available in the same sizes and bow heights as centralizers. Turbolizer undergo a special process of rust prevention before powder coating. Hinged Non Welded turbolizer are available in sizes 4½" to 20". Recommended for use with all

Crimson Welded Bow-Turbolizer is built with "turbolating" Fins added to the bow springs. the fins are made of heat-treated alloy steel. This makes them flexible, which minimizes damage while moving down hole. The fins direction can be made in both right and left hand versions to assist in the uniform displacement of the cement. The turbolizer have Bows strongly welded onto the outside of the end collars under required temperature and condition with correct grade electrode. Welded Turbolizer is ideal for deviated and horizontal well. Welded Turbolizers are available in the same sizes and bow heights as centralizers. Turbolizer undergo a special process of rust prevention before powder coating. Hinged Welded turbolizer are available in sizes 4½" to 20". Recommended for use with all standard casing grades



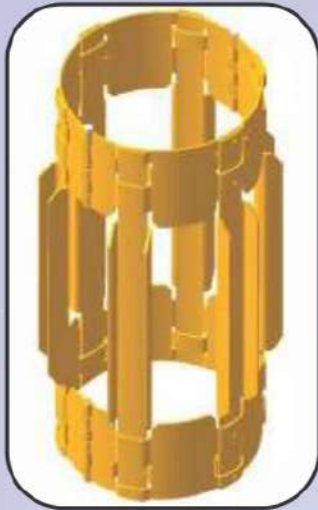
**Hinged Welded
Bow Spring Turbolizer**



**Slip On Welded
Turbolizer**

Crimson slip On welded Turbolizer Operational and general design features are the same as Hinged Welded Turbolizer. The Turbolizer have bows strongly welded onto the outside of the slip-on end collars under required temperature and condition with correct grade electrode. Slip On Welded Turbolizers are available in the same sizes and bow heights as centralizers. Turbolizer undergo a special process of rust prevention before powder coating. Slip On Welded turbolizer are available in sizes 4½" to 20". Recommended for use with all standard casing grades

BOW SPRING CASING CENTRALIZERS

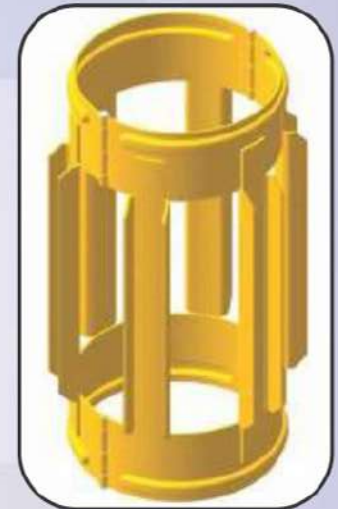


Hinged Non-Welded Positive Centralizer

Crimson Non weld Positive Centralizer are Provided with rigid bows of U - Profile design instead of spring bows to ensure maximum fluid passage and reduces frictional drag force in deviated hole conditions .They provide almost 100% standoff when run inside a cased hole .The flat U profile is fitted in self locking retaining lips for firm and positive hold. Bows can be selected to meet any hole Size from a choice of ten standard U profile depths and bow heights.

Positive Centralizers undergo a special process of rust prevention before powder coating. Hinged Non Weld Positive Centralizer are available in sizes 4½" to 20". Recommended for use with all standard casing grades

Crimson Hinged welded Positive centralizer are designed to provide positive standoff and centering. This product can be used in casing or open-hole applications. Steel construction provides superior toughness over other materials. The centralizers have Positive Bows strongly welded onto the outside of the end collars under required temperature and condition with correct grade electrode. This type of centralizer significantly reduces frictional drag while being used in deviated holes. Provide almost 100% stand off when run inside a cased hole. Positive Centralizers undergo a special process of rust prevention before powder coating. Hinged Welded Positive Centralizer are available in sizes 4½" to 20". Recommended for use with all standard casing grades



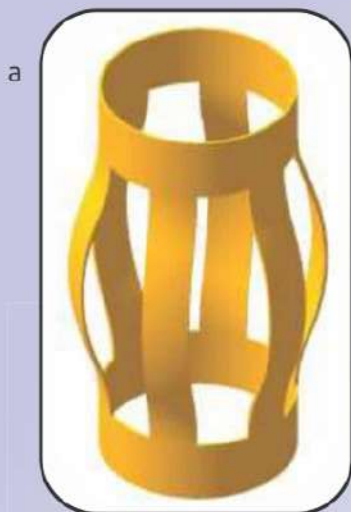
Hinged Welded Positive Centralizer



Slip On Welded Positive Centralizer

Crimson Slip-on welded Positive centralizer are designed to provide positive standoff and centering. This product can be used in casing or open-hole applications. Steel construction provides superior toughness over other materials. The centralizers have Positive Bows strongly welded onto the outside of the end collars under required temperature and condition with correct grade electrode. This type of centralizer significantly reduces frictional drag while being used in deviated holes. Provide almost 100% stand off when run inside a cased hole. Positive Centralizers undergo a special process of rust prevention before powder coating. Slip-on Welded Positive Centralizer are available in sizes 4½" to 20". Recommended for use with all standard casing grades

BOW SPRING CASING CENTRALIZERS



SINGLE PIECE CENTRALIZER

The latest centralisers are manufactured from a single piece of heat-treated steel giving hardened and tempered surface that results in greatly reduced torque and drag losses. These centralisers offer high fatigue strength for axial forces and radial side loads on bows during tubular rotation. Our specially designed Single Piece Centralizer, eliminate the risk of loose part or welding failure as it is all made from one single piece using state of the art manufacturing process and material. Run in close tolerance applications mainly on liners.

The Single piece centralizer can be installed with 2 stop rings, 1 internal stop ring or casing couplings. The blades, top and bottoms rings are made of one piece to ensure the centralizer's integrity during rig operations.

These are generally shipped in assembled condition only. This Centralizers undergoes special process of rust prevention before powder coating.

The Single piece centralizers are available in sizes 4½" to 20".(Any special sizes or combination can available on request).

CRIMSON OIL TOOLS has developed its single piece glider centralizer to meet growing demands worldwide for a centralizer which can perform satisfactorily in Open hole as well as Cased hole.

These are high quality product, developed to meet and exceed API 10D specifications for use in highly demanding down hole conditions like ERD wells.

Crimson's single piece glider centralizer combines the highest restoring force with zero starting force and zero running force thus minimising drag during running of the casing. centralizer is used to position the casing in the center of the wellbore in vertical deviated and horizontal wells.

Centralizers reduce the effect of channeling by improving the cement flow, this results in more uniform cement thickness in the wellbore. By reducing the pipe movement before cement sets in Centralizers are able to minimize gas channeling.

Crimson's Centralizers are one piece construction in special high strength steel which imparts excellent hardness and spring action ensuring an unmatched ability to come back to its original shape after undergoing rigorous stress loads conditions, these centralizers can pass through highly constricted space and then again regain their original shape without any deformity to give excellent stand off in open hole area.

Its bow spring design makes it highly flexible and its single piece construction makes it structurally robust and gives extra strength to withstand high stress conditions in demanding downhole situations making it the most preferred choice of cementers.

Single Piece Glider Centralizer (S 12)

| Casing Size In. | Hole Size | ID in Inches | ID in mm | OD in inches | OD in mm | Height in mm | Number of Bow | Starting Force (max.) As per API-10D | Starting Force Observed | Restoring Force (min) As per API-10D | Restoring Force Observed |
|-----------------|-----------|--------------|----------|--------------|----------|--------------|---------------|--------------------------------------|-------------------------|--------------------------------------|--------------------------|
| 4½" | 6" | 4⅝" | 117.5 | 6" | 152.4 | 317.5 | 4 | 211 Kgf.(464 lbf.) | 0 | 211 Kgf.(464 lbf.) | 1972 lbf. |
| 5½" | 8½" | 5⅝" | 142.9 | 8½" | 215.9 | 317.5 | 6 | 281 Kgf.(620 lbf.) | 0 | 281 Kgf.(620 lbf.) | 1568 lbf. |
| 7" | 8½" | 7⅝" | 181.0 | 8½" | 215.9 | 368.3 | 6 | 472 Kgf.(1040 lbf.) | 0 | 472 Kgf.(1040 lbf.) | 1727 lbf. |
| 7⅝" | 8½" | 7¾" | 196.9 | 8½" | 215.9 | 368.3 | 6 | 479.4 Kgf.(1056 lbf.) | 0 | 479.4 Kgf.(1056 lbf.) | 1856 lbf. |
| 9⅝" | 12¼" | 9¾" | 247.7 | 12¼" | 311.2 | 457.2 | 6 | 726 Kgf.(1600 lbf.) | 0 | 726 Kgf.(1600 lbf.) | 2946 lbf. |
| 13⅜" | 17½" | 13⅞" | 344.5 | 17½" | 444.5 | 457.2 | 6 | 1107 Kgf.(2440 lbf.) | 0 | 553.5 Kgf.(1220 lbf.) | 2140 lbf. |

SOLID RIGID CENTRALIZER



**Aluminium Spiral Blade
Solid Rigid Centralizer**

Crimson Spiral Nail Stop Collar uses two spiral locking pins which when driven in firmly lock the collar into position around the casing. This Stop Collar can be used in both upset and non-upset casing Provides maximum annular clearance. They can be latched on to the casing pipe without having to be slipped on at the end of the casing pipe, thus allowing Quick and easy installation. These Stop Collar undergo a special process of rust prevention before Painting.

CCRIMSON STEEL SOLID RIGID CENTRALIZER

It makes the casing centralized in well bore and improves cementing quality. Features : Rigid Centralizers are an integral part of the cementing process. They provide the mechanism that centres the casing in the hole and allows uniform cement flow around the casing to help protect it at all points. Several styles of centralizers are available for matching different well specifications and hole sizes, including turbulence generating designs that help clean the annulus and distribute the cement more evenly and uniformly. All models offer ample clearance for fluid passage and are extra effective in centering the casing, even in highly deviated holes and improve cement flow by reducing the effects of channeling. Spiral blades increase annular turbulence. With the shape of stream-lined, it enables casing run easily in well bore. Both straight blade and spiral blade are available. The material can be cast steel or cast aluminium.



**Aluminium Straight Blade
Solid Rigid Centralizer**



**Steel Spiral Blade
Solid Rigid Centralizer**

Crimson Hinged bolted Stop Collar is Designed to latch on the casing pipe without having to be slipped on at the end of the casing pipe allowing quick and easy installation. The friction grip type is hinged and incorporates a nut/bolt assembly which, when tightened, draws the stop collar into a friction grip around the circumference of the pipe. A valued point is that the stop collar should always have a stronger holding force than starting force. These Stop Collar undergo a special process of rust prevention before Painting

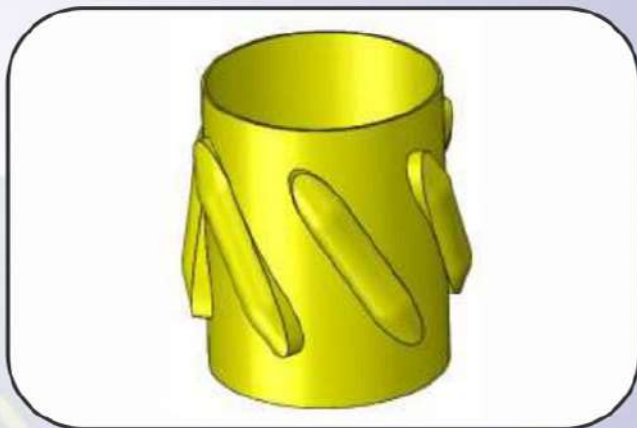
SOLID RIGID CENTRALIZER



Slip On Welded Spiraglider

Slip on set-screw type is a one-piece stop collar. Crimson also offers a premium one-piece stop-collar, with set screws for superior holding capability. The outside ends of these collar are generally tapered to a degree which helps to hold the centralizer and avoid the ends to hit the Bows / Vanes when the centralizers are placed over them. These Stop Collar undergo a special process of rust prevention before Painting .

Crimson Spiral Nail Stop Collar uses two spiral locking pins which when driven in firmly lock the collar into position around the casing. This Stop Collar can be used in both upset and non-upset casing Provides maximum annular clearance. They can be latched on to the casing pipe without having to be slipped on at the end of the casing pipe, thus allowing Quick and easy installation. These Stop Collar undergo a special process of rust prevention before Painting.



Heavy Duty Slip On Welded

Spiraslider (S36)

| Casing Size | Hole Size | Nominal Outer Diameter | | Height | Number of Vanes |
|-------------|-----------|------------------------|--------|--------|-----------------|
| | | mm | in | | |
| 4½ | 6 | 146.1 | 5.750 | 12 | 4 |
| 4½ | 8½ | 206.4 | 8.125 | 12 | 4 |
| 4½ | 8¾ | 209.6 | 8.250 | 12 | 4 |
| 5 | 6 | 146.1 | 5.750 | 12 | 4 |
| 5½ | 8½ | 206.4 | 8.125 | 12 | 4 |
| 5½ | 8¾ | 209.6 | 8.250 | 12 | 4 |
| 7 | 8½ | 206.4 | 8.125 | 12 | 6 |
| 7 | 8¾ | 209.6 | 8.250 | 12 | 6 |
| 9¾ | 12¼ | 304.8 | 12.000 | 12 | 7 |
| 13¾ | 16 | 400.1 | 15.750 | 12 | 8 |
| 13¾ | 17½ | 438.2 | 17.250 | 12 | 8 |

Heavy Duty Spiraslider (S38)

| Casing Size | Hole Size | Nominal Outer Diameter | | Height | Number of Vanes |
|-------------|-----------|------------------------|--------|--------|-----------------|
| | | mm | in | | |
| 4½ | 6 | 146.1 | 5.750 | 12 | 4 |
| 4½ | 8½ | 206.4 | 8.125 | 12 | 4 |
| 4½ | 8¾ | 209.6 | 8.250 | 12 | 4 |
| 5 | 6 | 146.1 | 5.750 | 12 | 4 |
| 5½ | 8½ | 206.4 | 8.125 | 12 | 4 |
| 5½ | 8¾ | 209.6 | 8.250 | 12 | 4 |
| 7 | 8½ | 206.4 | 8.125 | 12 | 6 |
| 7 | 8¾ | 209.6 | 8.250 | 12 | 6 |
| 9¾ | 12¼ | 304.8 | 12.000 | 12 | 7 |
| 13¾ | 16 | 400.1 | 15.750 | 12 | 8 |
| 13¾ | 17½ | 438.2 | 17.250 | 12 | 8 |

SOLID RIGID CENTRALIZER



**SLIP -ON
STAND-OFF BAND**

Crimson Slip On Standoff Band is designed to provide a positive stand off of the casing. It can be used in both cased and open holes and is required in situations where close tolerance between the casing and hole is being encountered. It is particularly effective for liner applications. The angled fins provide increased turbulent flow and further torque can be achieved by installing the band between a set screw Stop Collar. The product is treated against corrosion using a special phosphate coating followed by polyester coating. Slip on Standoff Bands are available in all sizes ranging from 3 ½" to 20". Any special sizes or combination can be made available upon request

CRIMSON Slip On Welded Cement Baskets are designed to run on casing or liners above porous or weak formations that require protection from the hydrostatic pressure generated by the cement column. They can also be used to help support a cement column near the well surface while the cement sets. CRIMSON Hinged Cement Baskets are easy to install around the casing OD. They have convex shaped Bows welded to both End Collars to provide added strength and more adaptability in terms of expansion and contraction. In addition, this type of Cement Basket can be rotated and reciprocated and is available in a choice of welded and non-welded convex shape bows.



**SLIP-ON
CEMENT BASKET**



**HINGED WELDED
CEMENT BASKET**

Available in the size range 4½' to 30", this device consists of flexible steel spring bows welded to slip-on collars. Bows are hardened and tempered for maximum strength and uniformity.

It is run on casing or liners above weak or porous formations to provide protection from hydrostatic pressure generated by the cement column. Its overlapping metal fins provide flexibility and fluid passage while maintaining optimum support characteristics.

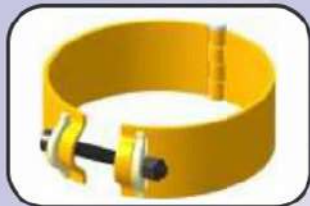
STOP COLLAR



Hinged Spiral Nail Stop Collars

Crimson Spiral Nail Stop Collar uses two spiral locking pins which when driven in firmly lock the collar into position around the casing. This Stop Collar can be used in both upset and non-upset casing. Provides maximum annular clearance. They can be latched on to the casing pipe without having to be slipped on at the end of the casing pipe, thus allowing Quick and easy installation. These Stop Collar undergo a special process of rust prevention before Painting.

The Spiral Nail Stop Collar are available in sizes 4 1/2" to 30".



Hinged Bolted Stop Collar

Crimson Hinged bolted Stop Collar is Designed to latch on the casing pipe without having to be slipped on at the end of the casing pipe allowing quick and easy installation. The friction grip type is hinged and incorporates a nut/bolt assembly which, when tightened, draws the stop collar into a friction grip around the circumference of the pipe. A valued point is that the stop collar should always have a stronger holding force than starting force.

These Stop Collar undergo a special process of rust prevention before Painting

The Hinged Bolted Stop Collar are available in sizes 4 1/2" to 20".



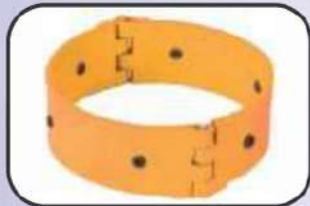
Slip on set screw stop collar

Slip on set-screw type is a one-piece stop collar.

Crimson also offers a premium one-piece stop-collar, with set screws for superior holding capability. The outside ends of these collar are generally tapered to a degree which helps to hold the centralizer and avoid the ends to hit the Bows / Vanes when the centralizers are placed over them.

These Stop Collar undergo a special process of rust prevention before Painting.

The Slip on Set Screw Stop Collar are available in sizes 2 7/8" to 20".



HINGED WITH SET SCREW STOP COLLAR

Crimson Hinged Set Screw Stop Collars are hinged at two places 180 degrees apart. The gripping force is applied by a single row of set screws holding the collar to the casing firmly. This Stop Collar can be latched on to the casing pipe without having to be slipped on at the end of the casing pipe, thus allowing easy installation. These Stop Collar undergo a special process of rust prevention before Painting.

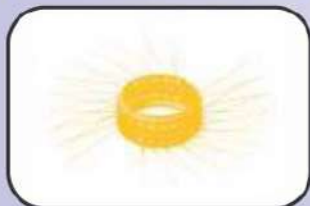


CABLE WALL CLEANER

Crimson Cable Wall Cleaner designed to clean the wellbore as the casing is reciprocated or rotated. The Cleaner aid in the removal of excess filter cake, gelled mud, and bit cuttings from the wellbore, and also serve as reinforcement in the cement column.

The Cable Wall Cleaner is locked onto the casing; therefore, stop collars are not required. The Bolt holds the Wipers in position and eliminates the need for stop collar. The positive holding action does not damage the casing

The Cable wall cleaner are available in sizes 4 1/2" to 20".



WIRE BRISTLE SCRATCHER

Scratchers remove excessive wall cake and improve the cement bond between the casing and porous formations while reinforcing the cement column. Their hinged design makes them easy to install. For running in the hole, a series of scratchers is mounted on the casing string. The inclined external bristles abrade the wellbore during running and reciprocation. The scratchers feature large fluid-bypass slots and coiled bristles for bending durability.

TESTING FACILITY

Testing Restoring Force Centralizers provide the restoring force necessary to keep casing centered in a well bore. Restoring force is the force exerted by the Bow Spring of a Centralizer against the casing to keep casing away from well bore wall.

The test is performed with the inner pipe and the outer pipe within 5 degrees of the horizontal. External force is applied to the outer pipe, which is then transferred to the centralizer. The load is then applied and load deflection readings are recorded three times. The process is repeated until each

Testing Facility

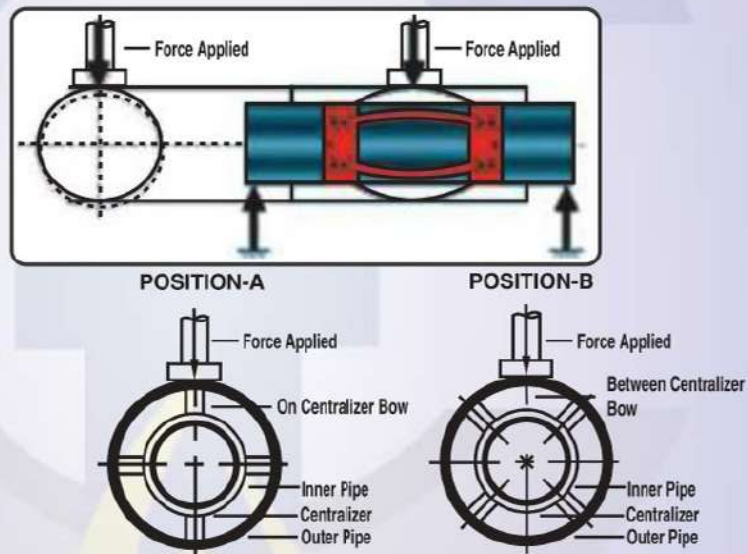


Figure A & B

spring and each set of springs has been tested with the load being applied directly above them and then in between the two springs, as shown in figure A & B. When the minimum restoring force has been obtained and each spring has been tested, the final load deflection curve is prepared using the arithmetic means of the force reading at corresponding deflections. Restoring force is determined from this curve at 67% stand off ratio. Field experience shows that stand off values of 75-90% are adequate even in horizontal wells.

HAMMER UNIONS



HAMMER UNIONS

Hammer Unions are high-pressure threaded or welded connections with two halves a threaded female half and a wing male half with swivel nut that fit together and seal upon turning and then hammering the nut half together with the threaded half. all Crimson hammer unions provide pressure-tight, positive sealing and are available for standard service and sour gas models. Hammer unions for sour gas service are specially heat-treated for controlled hardness and utilize fluorocarbon elastomer seal rings.

Crimson Hammer Unions are available in sizes 1" to 12" .

Crimson Manufactures a full line of high Quality Hammer Unions. Hammer Unions are designed as heavy duty, high pressure flow line connectors. They come in many sizes, shapes and pressure ratings, and when used correctly they are a safe and reliable means of transporting fluid .They are commonly found in chemical plants, on marine dredging vessels, in strip mines and in the oil industry.

Hammer unions are available in a wide range of sizes and in working pressures to 15,000 psi.



CROSSOVER SUB



Design & Manufacturing Oil Field Down Hole Drilling Equipments & Cementing Accessories

An API SPEC 10D-0053, ISO-14001 and OHSAS-18001 Certified Company



PERFORMANCE IS EVERYTHING

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