

Artificial Lift Systems



Artificial Lift



Artificial Lift at Evolution Oil Tools

TORQUE ANCHORS

The major component of the Evolution Artificial Lift product line is our range of Torque Anchors. All of our Torque Anchors provide you with a simple, economical and reliable solution to prevent tubing back off when using a progressing cavity (PC) pump.

Depending on the conditions present, we offer you our new Advanced Torque Anchor (ATA), the reliable Dynamic Torque Anchor (DTA), our Centralizing Torque Anchor (CTA), the Halbrite No-Turn Tool or with the simple and rugged Basic No-Turn Tool.

TUBING ROTATORS

Our Tubing Rotators complement our Torque Anchors in saving you from potential down time and rig expense, as well as reducing maintenance costs.

The CTR Tubing Rotator was designed to extend the life of your tubing string by rotating the tubing. This assures that the sucker rods do not wear against only one spot of the tubing, which will cause premature tubing failure. The E Style and E-Plus Tubing Rotators offer the same benefits of the CTR, but with a low profile design feature that helps to keep the overall wellhead height to a minimum.

GAS SEPARATORS/INTAKES

Evolution offers two unique Downhole Gas Separators to significantly increase pump efficiency and oil production.

Our PC Pump Gas Separator uses centrifugal forces to separate the gas from the produced liquids before they enter the pump. Liquids are carried through into the pump while the separated gas is forced to flow up the annulus.

The Evolution Oil Tools Beam Pump Gas Separator is designed to provide a method of allowing gas to migrate up the annulus, thereby preventing gas locking.

We also offer a Bottom Feeder Weighted Eccentric Intake and a V-Backed Stainless Steel Pump Intake.

TUBING SWIVELS

Tubing swivels are designed to be run in conjunction with the Evolution Tubing Rotator on pumping wells that use a progressive cavity pump and a torque anchor.

Evolution offers a variety of tubing swivels. These include the popular CDHS (clutched downhole swivels), the dynamic two-way swivels (with regular and slimhole options), as well as our newest line of E-Swivel Slim models. The E-Swivel Slim products are available in both a one and two-way configurations.

TUBING DRAINS

Evolution offers a Tubing Drain Valve that can be used with both rod pumps and progressing cavity pumps. The Tubing Drain valve provides a simple method for draining the tubing string before tripping out.

We also sell the Burst Disk Plug Tubing Drain that uses burst disc technology to provide accurate and reliable actuation of drain openings downhole. The Burst Plug Tubing Drain has been used in many types of wells to eliminate the potential hazards associated with pulling wet tubing strings.



Evolution Oil Tools has a complete selection of Artificial Lift tools and accessories

Torque Anchors



The Evolution DTA - Dynamic Torque Anchor® provides a simple and reliable solution for tubing back-off when progressing cavity pumps are used.

The unique patented design allows for easy running and retrieval in a variety of downhole conditions.



The **Evolution Halbrite Torque Anchor** (also called the Halbrite No-Turn Tool) uses patented cam-type anchor blocks specifically designed to react to the torque loads created by a Progressive Cavity (PC) Pump. The more torque the pump generates, the harder the anchor blocks bite, ensuring the pump remains stationary.



The **Evolution Centralizing Dynamic Torque Anchor (CTA)** provides a reliable solution for tubing back-off when progressive cavity pumps are used. Evolution developed the CTA to handle the increase vibration caused by larger pumps. It functions well in horizontal wells.



The Centralizing Rotating Tubing Anchor Catcher (CRTA) is full bore tubing anchor with opposing slips.

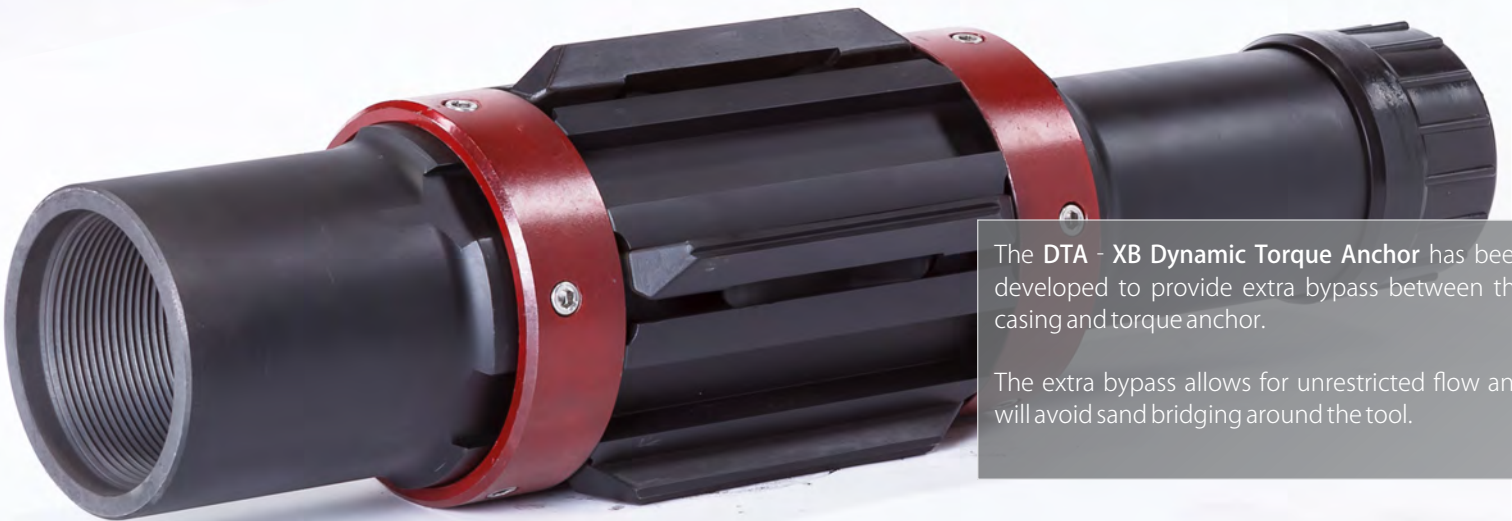
The bearing system in the tool is engaged in the set position and allows rotation through the tool.



The **Evolution CTA-XB - Centralizing Dynamic Torque Anchor® with Extra Bypass** provides a simple and reliable solution for tubing back-off when progressive cavity pumps are used. The tool addresses the need for extra bypass required with large volume pumps and horizontal or deviated wells.



The **Evolution CATA-X2 Torque Anchor** provides a simple and reliable solution to tubing back-off when progressive cavity (PC) pumps are used with built-in centralizing and extra bypass for large-cased wells. The design combines centralizing features and extra bypass along with anchoring functionality.



The **DTA - XB Dynamic Torque Anchor** has been developed to provide extra bypass between the casing and torque anchor.

The extra bypass allows for unrestricted flow and will avoid sand bridging around the tool.



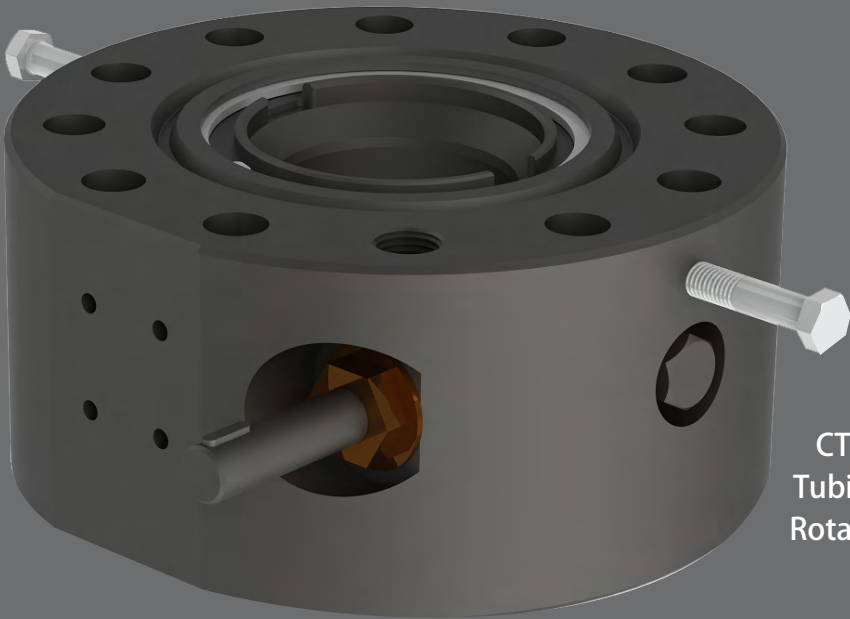
The bypass capability of the **Evolution Advanced Torque Anchor (ATA)** is second to none. In most configurations, the ATA offers greater than 95% of the potential bypass available past a similarly sized EUE coupling. Additionally, because the ATA remains centralized there are no limits to pump size used with the tool.

Reducing Wear Downhole

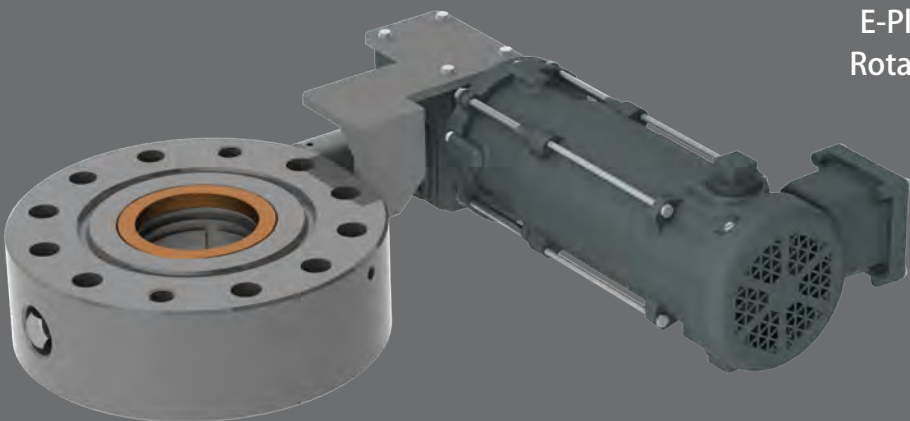
The **Evolution Tubing Rotator** line was developed as part of a system used to extend the life of production tubing in beam pumping and PC pumping wells.

Evolution Oil Tools **CTR Tubing Rotators** and **E-Plus Tubing Rotators** compliment our Torque Anchors to save you from potential down time and rig expense, and reduce maintenance costs.

Rotating the tubing assures that sucker rods do not wear against only one spot of the tubing, which will cause premature tubing failure. This benefit comes in a low profile design that helps to keep the overall wellhead height to a minimum.

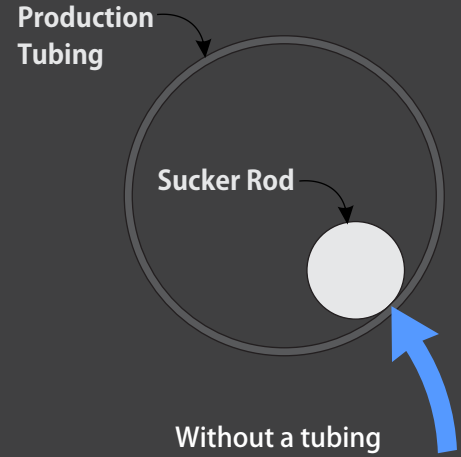


CTR
Tubing
Rotator



E-Plus
Rotator

Why use a Tubing Rotator?

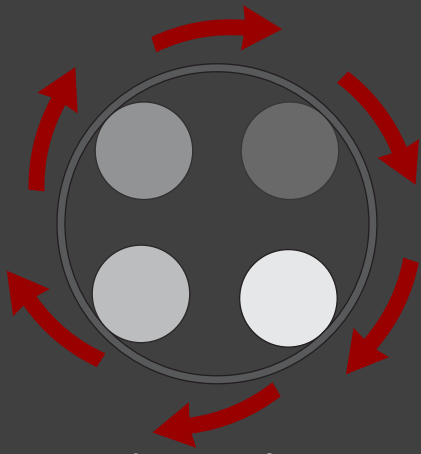


Without a tubing rotator, the wear is localized and can lead to tubing failure.

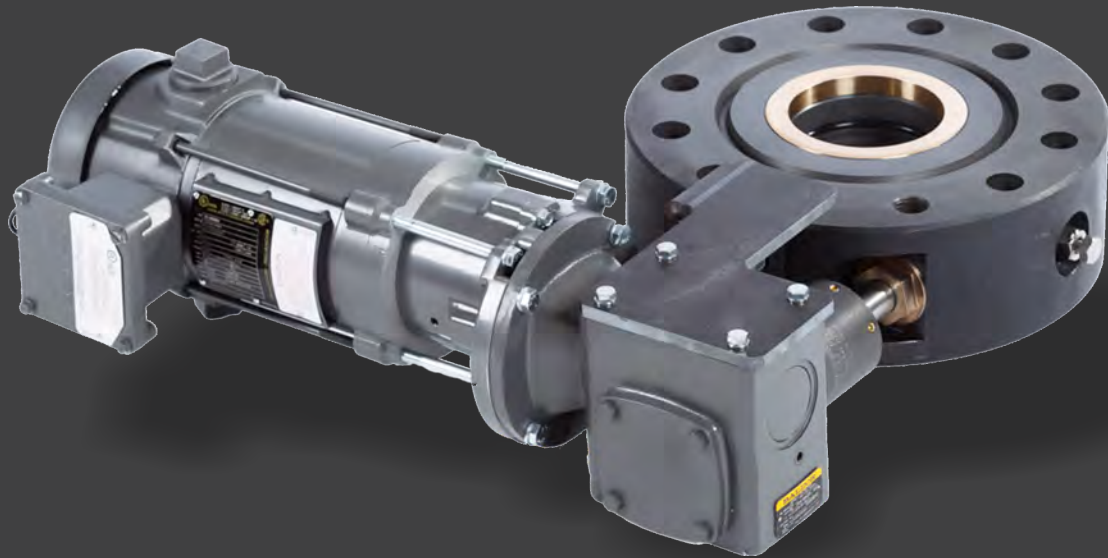
Progressive Cavity Pump (PC)	Beam Pump	Tension Anchor
●	●	●
●	●	



Tubing Rotators & Hangers



When an Evolution Tubing Rotator is used, tubing wear is spread over the entire surface, prolonging tubing life.



Torque Anchor	No Anchor	Existing Hanger Can Stay in Wellhead	Rotational Hanger Required
●	●	●	●
●	●	●	●

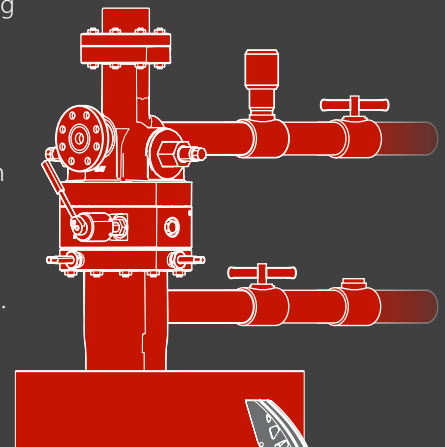
- Recommended
- Possible



Evolution Oil Tools Tubing Rotators are available with three drive options:

Manual Drive

The Manual Drive System allows the operator to rotate the tubing string on a periodic basis (typically daily or weekly). This system is typically used with progressive cavity pumps.



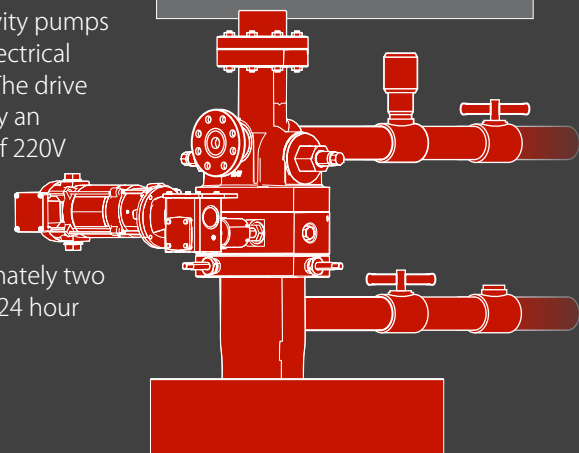
Mechanical Drive

The Mechanical Drive System is used with pump jacks. This system can be set up to allow for approximately one revolution of the tubing in a 24 hour period.




Electric Drive


The Electrical Drive System is used with progressive cavity pumps that have an electrical surface drive. The drive system is run by an explosion-proof 220V motor. This system rotates the tubing string approximately two times during a 24 hour period.



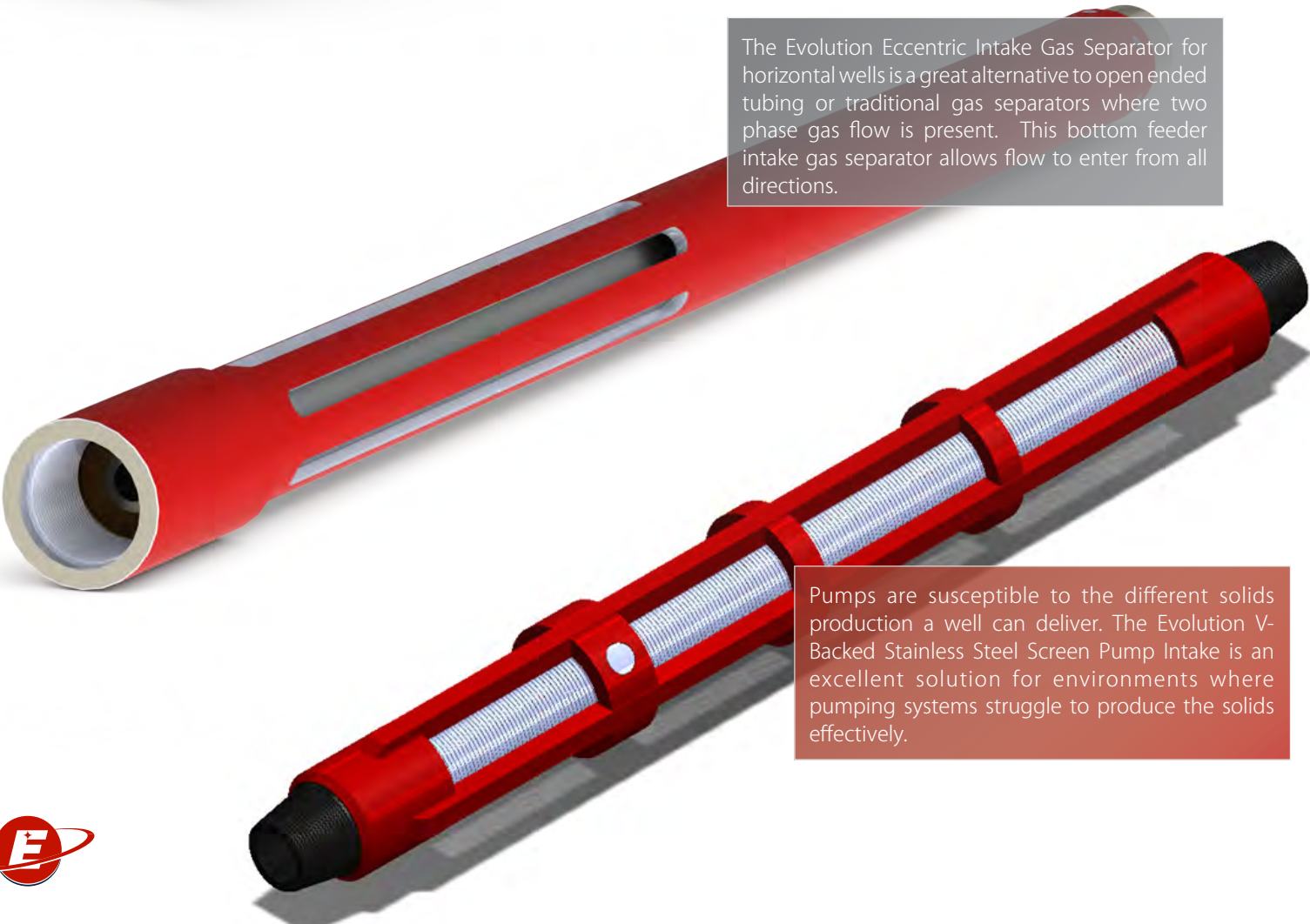
Gas Separators / Intakes



The Evolution Beam Pump Downhole Gas Separator was designed to provide a method of allowing gas to separate out of the solution and migrate up the annulus, preventing gas locking of the down-hole pump. The Beam Gas Down-Hole Separator pump increases efficiency and production.



The PC Pump Gas Separator has been designed as a continuous flow downhole gas separator to be used in conjunction with progressive cavity pumps. They use centrifugal forces to separate the gas from the produced liquids, before they enter the pump. Liquids will be carried through into the pump suction while the separated gases are forced to migrate up the annulus.



The Evolution Eccentric Intake Gas Separator for horizontal wells is a great alternative to open ended tubing or traditional gas separators where two phase gas flow is present. This bottom feeder intake gas separator allows flow to enter from all directions.

Pumps are susceptible to the different solids production a well can deliver. The Evolution V-Backed Stainless Steel Screen Pump Intake is an excellent solution for environments where pumping systems struggle to produce the solids effectively.



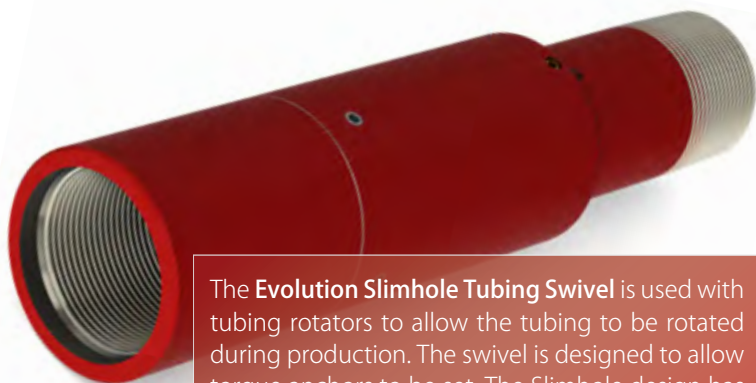
Tubing Swivels



The **Evolution CDHS Clutched Down Hole Swivel Assembly** is designed to be run in conjunction with the Evolution Tubing Rotator on pumping wells that utilize a progressive cavity pump and an anti-rotation anchor.



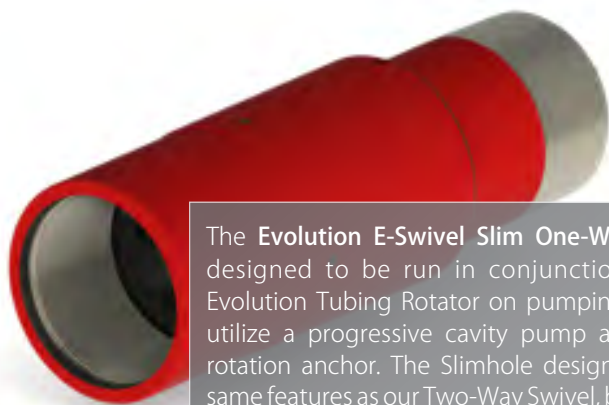
The **Slimhole CDHS Clutched Down Hole Swivel** is designed to be run in conjunction with the Evolution Tubing Rotator on pumping wells that utilize a progressive cavity pump and an anti-rotation anchor. The Slimhole design has all the same features as our CDHS Swivel, but is used in applications where a smaller OD is called for.



The **Evolution Slimhole Tubing Swivel** is used with tubing rotators to allow the tubing to be rotated during production. The swivel is designed to allow torque anchors to be set. The Slimhole design has all the same features as our Two-Way Swivel, but is used in applications where a smaller OD is called for.



The **Two-Way Swivel** can also be sheared to allow the tubing to freely rotate in either direction if required. The beveled housing feature allows for efficient shear screw removal when redressing the tool and the two piece bearing race configuration ensures smooth, reliable operation.



The **Evolution E-Swivel Slim One-Way** swivel is designed to be run in conjunction with the Evolution Tubing Rotator on pumping wells that utilize a progressive cavity pump and an anti-rotation anchor. The Slimhole design has all the same features as our Two-Way Swivel, but is used in applications where a smaller OD is called for.



The **Evolution E-Swivel Slim Two-Way Tubing Swivel** is used with tubing rotators to allow the tubing to be rotated during production. The swivel is designed to allow torque anchors to be set.

Tubing Drains

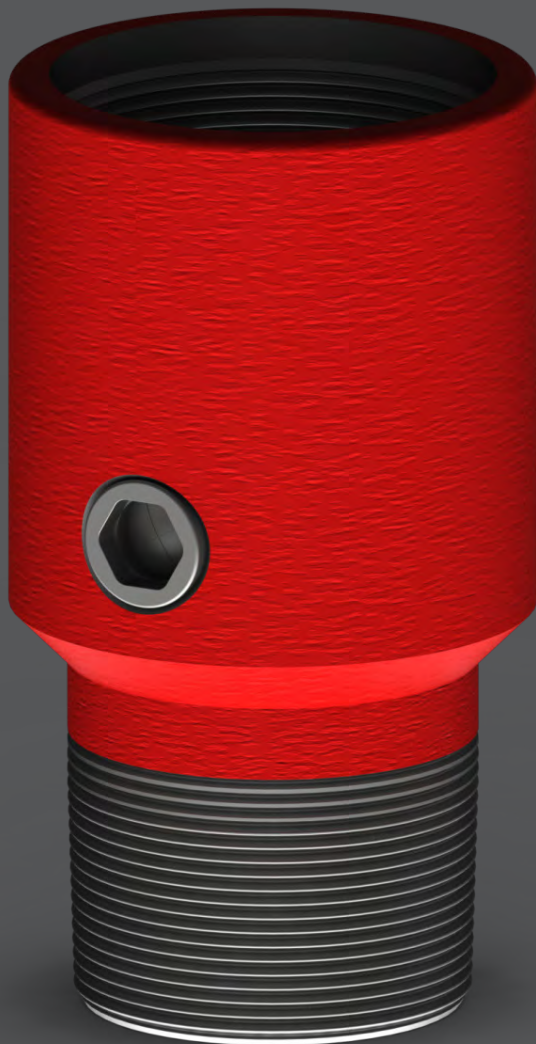


Safe and effective non-mechanical equalization of tubing strings

Tubing Drain Valve

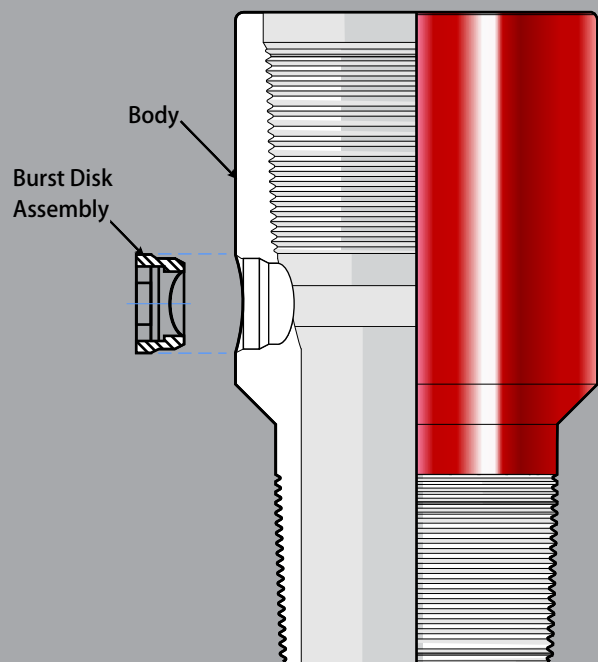
The **Evolution Tubing Drain** valve provides a simple method for draining the tubing string before tripping out. The Tubing Drain Valve has a shear pinned sleeve and it is activated by inside tubing pressure. The product is used with both rod pumps and progressing cavity (PC) pumps.

The opening pressure of the Tubing Drain Valve can be adjusted by using the required number of shear screws.



Burst Plug Tubing Drain

Evolution's **Burst Plug Tubing Drain** by Fike Corporation provides a positive method to equalize the fluid level in tubing strings, without mechanical manipulation. Utilizing burst disc technology to provide accurate and reliable actuation of drain openings downhole, the Burst Plug Tubing Drain has been used in many types of wells to eliminate the potential hazards associated with pulling wet tubing strings.



CANADA

#3, 1820 – 30th Ave NE
Calgary, Alberta T2E 7M5
Toll Free: 1-800-265-TOOL (8665)
Main: 403-243-1442
Fax: 403-258-2614

6415A - 63 St. Close
Lloydminster, Alberta T9V 3B5
Tel: 780-522-8294
Fax: 780-875-6337

4512 – 81 Ave
Edmonton, Alberta
Tel: 587-758-9091
Cell: 780-919-1722
Cell: 780-893-1019

UNITED STATES OF AMERICA

P.O. Box 5363
2908 Coffey Street
Victoria, Texas 77903
Main: 361-575-7900
Fax: 361-575-8081

2400 Kermit Hwy
Odessa, Texas 79764
Cell: 432-638-7902



Knowledgeable personnel providing and developing quality products and timely solutions to the Oil & Gas Industry

Evolution Oil Tools is a group of people that were brought together in order to meet your completion and subsurface tool needs. We provide wholesale products to accommodate your completion / service requirements.

A portion of our product offering includes our own proprietary designs, patents and patent agreements to ensure that you are getting the required technology from the source. We can also offer Design and Engineering support to the product solutions provided to you.

Our group combined, offers you over 100 years of experience in the Oil & Gas Industry, with the majority of that experience being in the tool business. We can also offer servicing capabilities for our product lines, in-house for Flow Control and through our strategic partnerships for Artificial Lift Systems (ALS).

Make Evolution your tool solutions provider for all of your completion and subsurface tool needs and take advantage of our experience.



www.eotools.com