Field-proven technology that enhances the operating environment for all mechanical seals and packing

SpiralTrac™
Product Ordering Information

- Easy Installation Options
- Total Environmental Control
- Reduces Flush 72%-100%
- Improves MTBR
- Extends mechanical seal and packing life
Order Form - Seal Versions

Used With:
- **Flush Only (Split)**
  Type S only available in ESC & GLF.
- **Non Fibrous (Unsplit)**
  Not available in Type S.
- **Non Fibrous (Unsplit)**
  Available in Type I only.
- **Fibrous (Unsplit)**
  Not available in Type B or Type S.

Units of measurement:  
- [ ] Inch  
- [ ] Metric

Shaft size: ________________
(Rotating Element - Sleeve, Impeller hub, Seal OD, etc)

Bore size: ________________

First obstruction: ________________

Distance from throat to back of the seal if less than 1.850" / 47.00mm: ________________

Shaft rotation as viewed from the motor end:  
- [ ] CW  
- [ ] CCW

Material:  
- [ ] 316SS  
- [ ] 416SS  
- [ ] Titanium  
- [ ] GLF  
- [ ] ESC  
- [ ] Other: ________________

Installation Type:  
- [ ] Type A  
- [ ] Type B  
- [ ] Type E  
- [ ] Type S  
- [ ] Type I

Notes:  
1. Double ended pumps require L and R devices.
2. GLF material available for Version "F" Type "S" only.
3. Recommended: Drill 0.156" (3.96mm) vent hole to release air when flooding.
4. Recommended: Extend exit groove.
5. SpiralTracs used in Vertical Applications do not incorporate an air vent. Please contact EnviroSeal for air removal options.

Equipment Information:
- Flush:  
  - [ ] No  
  - [ ] Yes  
  Rate: ________________

Make: ________________
Model: ________________
Size: ________________
Product: ________________
%Solids: ________________
Temperature: ________________

Distributor Information:
Company: ________________
Specialist: ________________
P.O.# ________________ Qty: ________________

Customer Information:
Company: ________________
Customer Name: ________________
Signature: ________________

EnviroSeal Use Only:
Part no: ________________
List Price: ________________
Total Price: ________________
Ship Date: ________________
W.O.#: ________________

US Patents #5,553,868  #5,167,418
Euro. Pat. App. 0 912 848

The information contained in this bulletin is accurate at time of print. The purchaser is responsible for ensuring the dimensions, quantity and applications suitability meet end-user requirements. Most products are manufactured to order; therefore, EnviroSeal Engineering Products Ltd. retains the right to individually authorize returns based upon the potential for resale of the products within a reasonable period of time.

Tel (902) 861-3464 Fax (902) 861-3522
Website http://www.enviroseal.ca
**SpiralTrac**

**Order Form - Packing Version**

**Equipment Information:**
- Flush Rate:
- Make:
- Model:
- Size:
- Product:
- %Solids:
- Temperature:

**Distributor Information:**
- Company:
- Specialist:
- R.O. #:
- Qty:

**Customer Information:**
- Company:
- Customer Name:
- Signature:

**EnviroSeal Use Only:**
- Part no:
- List Price:
- Total Price:
- Ship Date:

**Fig. 1**
- Regular Stuffing Box

**Fig. 2**
- Stuffing Box With Flush Port At Bottom

**Fig. 3**
- Stuffing Box With Counter Bore

**Configuration:**
- Fig. 1
- Fig. 2
- Fig. 3

**Units of measurement:**
- Inch
- Metric

**Shaft rotation as viewed from the motor end:**
- R CW
- L CCW

**Dimensions:**
- \( \phi A \) (Sleeve OD) =
- \( \phi B \) (Box ID) =
- C (To edge of flush port) =
- D =
- E (Box Length) =
- F (Counter bore diameter) =
- G (Counter bore length) =

**Rings of packing:**
- BELOW =
- ABOVE =

**Material:**
- ESC (Carbon Graphite PTFE)
- GLF (Glass Filled PTFE)
- 416
- 316
- Split
- Solid

**FOR ALL CONFIGURATIONS:**
- Sufficient flush pressure to drive a positive flow into the box is required.
- Enviroseal recommends that a flow meter and check valve be utilized on the flush line.
- Discharge recirculation is not recommended.
- Vertical applications sized the same as horizontal.
- Minimum axial length of SpiralTrac is 1.000”.

**NOTES:**
1. Axial length of lantern ring.
2. If there are less than 3 rings of packing ABOVE, measurements C and E must be provided.
3. If lantern ring / throat bushing is at the bottom of stuffing box, as in Fig 3, dimensions F and G are required.
4. A high quality packing is recommended to sustain a drip rate leakage.

**Configuration Options:**
- Regular Stuffing Box
- Stuffing Box With Counter Bore
- Stuffing Box With Flush Port At Bottom

**Material Notes:**
(Note: Radial cross-section must be greater than .500”)

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**Part Number Code**

Example: The following part number identifies a device operating with greatly reduced flush (F), measured in inches (I), to fit over a 3.000” shaft (3000) in a pump with right fluid rotation (R). This is a split (S) SpiralTrac™ for in-place installation with split seals in a pump with a 4.000” seal cavity bore diameter (4000). The device is made of Carbon Graphite Filled PTFE (ESC). This part number code applies to typical SpiralTrac™ configurations. For special configurations please forward a drawing to EnviroSeal for review.

**Shaft Size**
Actual diameter of rotating component under SpiralTrac™

**Outside Diameter**
Actual diameter of the seal cavity bore.

**Material**
- 316 Stainless Steel
- 416 Stainless Steel
- GLF Glass Filled PTFE
- ESC Carbon Graphite Filled PTFE
- BRZ Bronze
- Ti Titanium

**Measurement Units**
- I Inches
- M Metric

**Shaft Rotation**
As Viewed From Motor End
- R Right
- L Left

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**F I 3000 R S 4000 (ESC)**

**Operating Conditions (SpiralTrac Versions)**
- **F**: Greatly reduced flush. Installed with split seals while the equipment is still in place. (see Type S)
- **FNC**: Reduced or no flush in non-fibrous applications. More aggressive single spiral groove, deep air vent and exit groove, available in Types A, B, I, and E.
- **NCD**: Reduced or no flush in non-fibrous applications. Designed for chemical service applications. Unique drain machined in bottom to effectively drain seal cavity. Available in Type N only.
- **P**: Reduced or no flush in fibrous applications. Double spiral grooves, deeper air vent and exit groove, available in Types A, I, and E.
- **FNP**: For use with packing only. A combined lantern ring and centrifugal separator, axially split and manufactured with a single spiral groove.

**Easy Installation Options (SpiralTrac Types)**

**Type A Counterbore Fit**
- **Press into Place using reduced or no Flush**: Drives Circulation for face cooling. Forces fluid Exchange for heat removal. Removes Particulate.
- **Recommended Upgrades**:
  - Drill 5/32" vent hole.
  - Releases Air when flooding.

**Type B Bore Fit**
- **Press into Place using reduced Flush**: Drives Circulation for face cooling. Enhances fluid Exchange for heat removal. Positions Particulate so a small flush (5-7 GPH/23-32 LPH) can force it under the throat restriction and out of the cavity.
- **Recommended Upgrades**:
  - Drill 5/32" vent hole.
  - Extends exit grooves.
  - Forces fluid Exchange and removes particulate without flush while eliminating shaft erosion.

**Type S Axially Split Device** (Typical for Split Seals)
- **No Upgrades**
  - Not practical due to installation while the pump is assembled.

**Type E Impeller Side Installation** (Typical for Open Bore Cavities)
- **Press into Place using reduced or no Flush**: Drives Circulation for face cooling. Forces fluid Exchange for heat removal. Removes Particulate.

**Type E Externally Keyed** (Typical for Horizontal Split Case Pumps)

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**Notes:**
1. For Type A or Type E SpiralTrac™ dimensions for the counterbore or external key (Horizontal Split Case Pumps) must be provided in addition to the part number. Please contact EnviroSeal for sizing information sheets.
2. For Packing Version SpiralTrac™ the width of the lantern ring as well as the size of packing and number of packing rings being replaced by SpiralTrac™ must be provided in addition to the part number. Please contact EnviroSeal for sizing information sheets.
3. For Double Ended Pumps both right and left rotation devices are required.
4. Depending on the pump, this may be a shaft, sleeve, or impeller hub diameter.
5. When air is a problem from process or dry running, the use of flush, quench or double seals is necessary to provide face cooling.
6. Elimination of flush is dependent on the type of application. Please contact EnviroSeal to determine your application's suitability for total flush elimination.
7. Version P radial cross-section must be greater than .500” when using glass filled PTFE.