

SpiralTrac™

FOR

VERTICAL TURBINES



VT SpiralTrac made of 660 Bronze

WHAT IS SPIRALTRAC?

The SpiralTrac Environmental Controller is a **unique, patented, active throat bushing**, specifically engineered to transform and control the internal stuffing box environment in rotating process equipment.



The unique nature of Vertical Turbine centrifugal pumps requires a **unique SpiralTrac design!**

Unlike our typical seal and packing SpiralTracs, the VT SpiralTrac is not installed in the conventional stuffing box/seal cavity area, which makes it possible to be used with either sealed or packed application.

Introduced over 15 years ago, the VT SpiralTrac is now successfully being deployed in thousands of Vertical Turbines worldwide. Some of the manufacturers are:

**Sulzer | National | Goulds | Xylem | Grundfos | Byron Jackson | Worthington |
Pentair | Fairbanks | Neptuno | IR | Johnston | Weir | Flowserve**

ONE DESIGN, PROVEN BENEFITS

Playing "Defense"

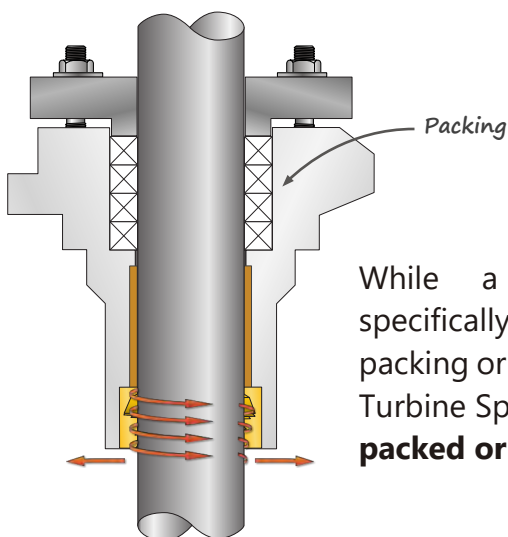
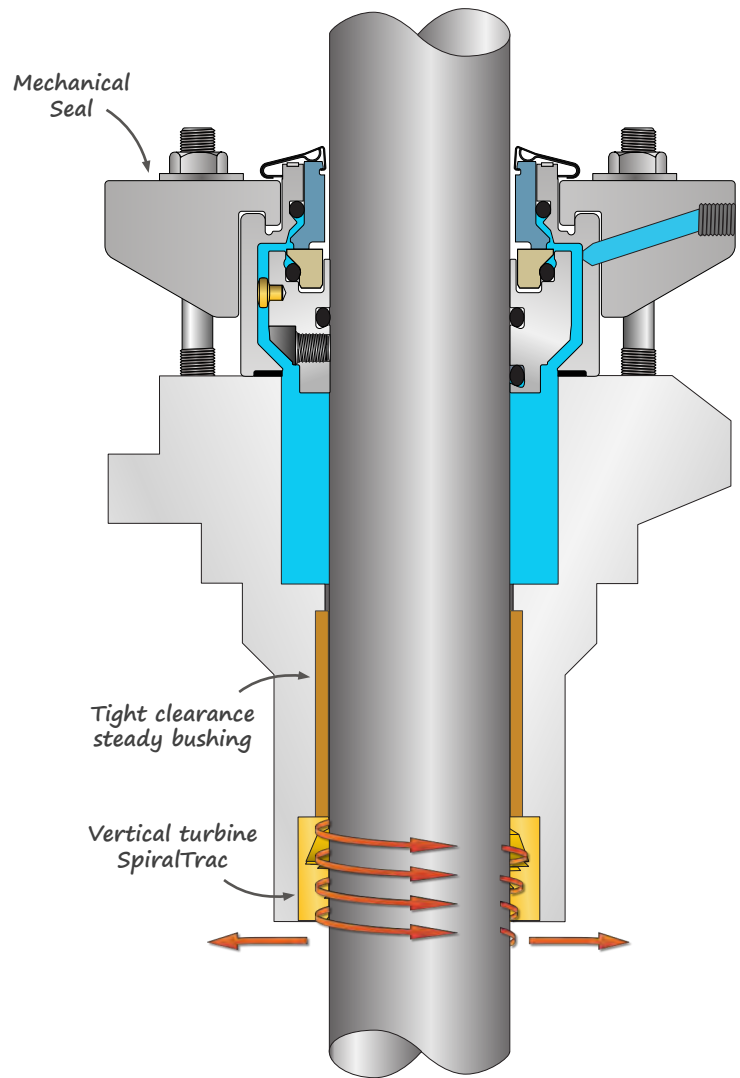
The smaller diameter long shaft in vertical turbine pumps, along with the **tight clearance steady bushing**, make it challenging to remove trapped solids from the stuffing box/seal cavity.

That is why the Vertical Turbine SpiralTrac is installed (press fit) into the bottom of the column. Machining is typically required for installation!

Once installed, the device helps keeping the cavity clean by **preventing solids from migrating up the shaft!** Taking advantage of the flow generated by the shaft rotation, any solids trying to pass by the device gets thrown outward to the spiral groove. The centrifugal force traps the solids in the spiral geometry as they get expelled back through the exit groove before they could reach the cavity.

The cavity stays clear of particulate, allowing the packing/mechanical seal to operate in a clean environment.

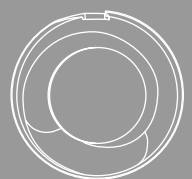
Typically manufactured from metal with a minimum axial length of 1.000" (25.4 mm).



While a standard Spiraltrac is specifically designed to be used with packing or mechanical seal, the Vertical Turbine SpiralTrac can be used in **both packed or sealed applications.**



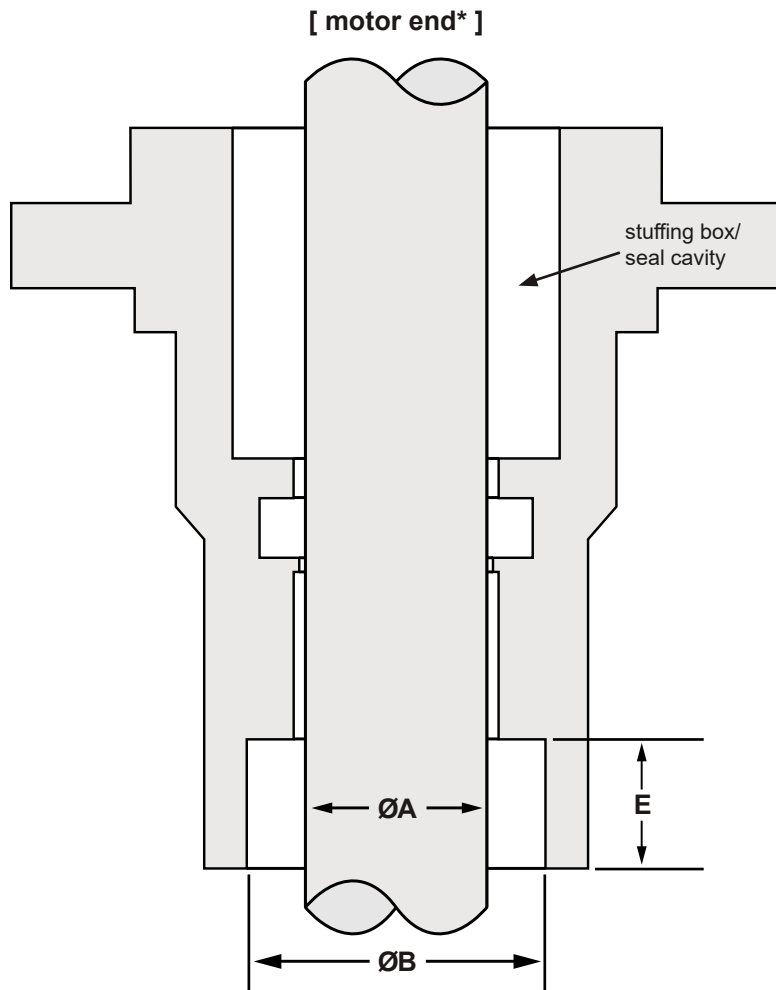
Vertical Turbine SpiralTrac made of 660 Bronze material



SpiralTrac™ Vertical Turbine

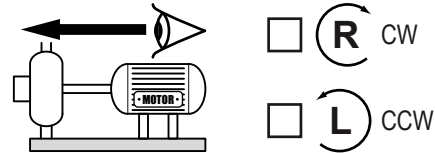
Quote Form

Configuration



Can be used with Packing or Mechanical Seal!

*Shaft rotation as viewed from the motor end³:



Measurements

Units of measurement: Inch Metric

ØA (Shaft OD): _____

Typically dictated by EnviroSeal:

ØB (Cavity ID): _____

E (Cavity depth): _____

Note:

1. Minimum cross section required is **0.312"**
2. Minimum axial length for SpiralTrac is **1.000"**
3. Vertical turbine shaft is typically left hand rotation
4. Make sure equipment is a vertical turbine, not a vertically mounted centrifugal pump

Material

- 316 Stainless Steel
- 416 Stainless Steel
- 17-4PH Stainless Steel
- BRZ (660 Bronze)
- Other: _____

Extra Information

Equipment

Make: _____

Model: _____

Size: _____

RPM: _____

Product: _____

Solids %: _____

Notes: _____

Distributor

Company: _____

Specialist: _____

P.O.#: _____

Customer: _____

Temperature: _____



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