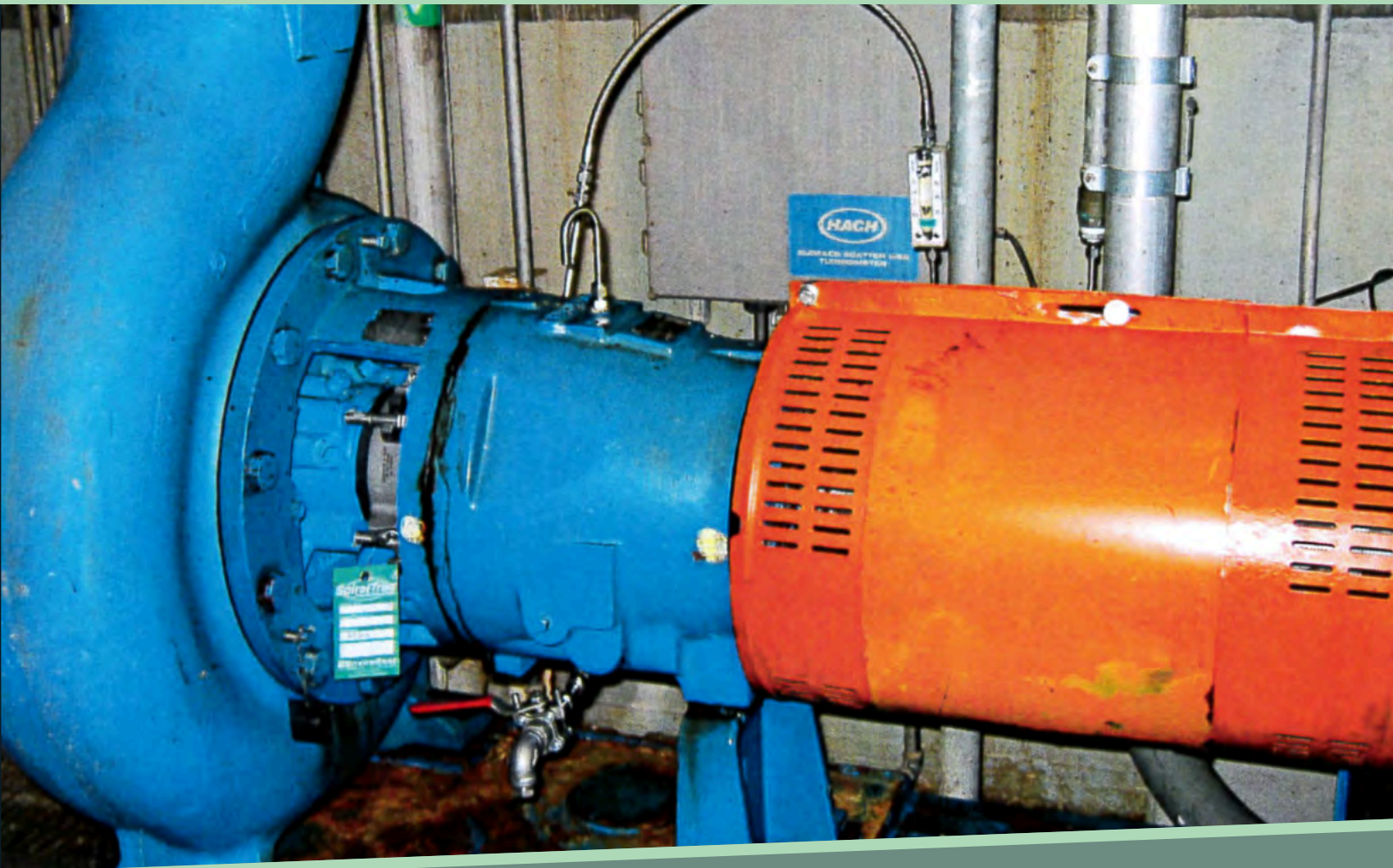


Find your pump, improve it with SpiralTrac

SpiralTrac™

STANDARD PART NUMBER CATALOG





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.

It is a revolutionary environmental controller for seal and packing chambers, and has established new standards worldwide for leveraging the maximum performance potential of rotating process equipment in various industries.

SpiralTrac (standard) Part Numbers

SpiralTrac comes in many shapes and sizes so it can accommodate most all fluid sealing applications. The **Version** of a SpiralTrac (F, N, D, C or P) refers to the application the device is designed for, while **Type** (A, B, E, I or S) categorizes the device by its installation configuration. SpiralTrac can be designed to fit nearly all pump configurations.

This always growing catalog includes standard SpiralTrac part numbers for commonly used rotating equipment. If your pump is not in the catalog, let us know what you have by filling out the *Quote Form* at the end of this document and sending it to us at support@enviroseal.ca

Before ordering, please reach out to EnviroSeal Tech Support at support@enviroseal.ca or give us a call at +1 (902) 861-3464

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Packing Version SpiralTrac

Benefits



*Split for easy installation
(Version P Type S)*

Flush can be reduced by 60% or more in many applications with the use of a flow controller

Through the use of tangential injection into a centrifugal separation chamber, and the incorporation of spiral grooving, Packing Version SpiralTrac is able to use flush far more effectively and efficiently in rejecting particulate from the pumpage.

Less leakage

The packing used with the Packing Version SpiralTrac must be of a high quality that will enable control of leakage to a drip rate. This results in a far cleaner working environment, longer bearing service life, and reduced housekeeping costs. EnviroSeal recommends high quality Chesterton packing.

The packing set is less sensitive to dirt in the flush water

The dirt is injected with the flush and forced under one or both sets of packing, contaminating the inner surface and scoring the shaft in the process. Packing Version SpiralTrac collects this dirt and channels it from the chamber through a dedicated exit groove.

Greatly reduced sleeve wear

Dirt from flush is rejected instead of embedding in the packing. As well, most of the dirt attempting to enter the packing set from process is captured in the spiral grooving system and rejected with the flush before it can embed under the packing rings above the SpiralTrac. The combination has proven to dramatically reduce sleeve wear, and in turn, make the sealing system less sensitive to axial and radial movement.

Longer packing life

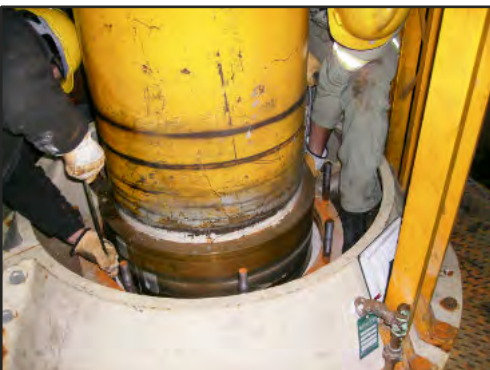
Packing Version SpiralTrac finally enables the economic use of high-grade packing, enabling users to gain the advantages of their inherent ability to operate longer, with less leakage, and less sleeve wear.

Cleaner leakage

One of the most frequent reports from the field after installation is that the leakage from the packing set is not only reduced to drip rate, but the contaminant level within the leakage is astonishingly low. This again translates to massive visual and house cleaning benefits to the user.

The proven solution to packing large rotating equipment

Packing Version SpiralTrac has provided a long-awaited answer to the problems associated with packing and maintenance of not only pumps and mixers, but for large rotating equipment where the benefits have been even more evident. This equipment has included agitators, refiners, hydro pulpers, and thick stock pumps.



SpiralTrac installation for a hydro turbine application in Quebec, Canada

Seal Version SpiralTrac

Benefits



Split for easy installation
(Version F Type S)



SpiralTrac installation in a large influent pump at a wastewater treatment plant

Increases seal MTBF

By preventing accumulation of solids in the cavity, circulating fluid around the seal, exchanging internal cleaned flush and venting the cavity when the pump is stationary, SpiralTrac is able to increase mechanical seal MTBF by typically two to six times the previous level.

Decreases or eliminates flush

The SpiralTrac patented design permits users to greatly reduce or eliminate flush in many standard process applications. Although complete elimination of flush is dependent on the type of application, EnviroSeal's technical support staff can assist you in determining your application's suitability for total flush elimination.

Greatly reduces or eliminates seal and cavity erosion

One of the problems caused by particulate circulating in the seal cavity is excessive shaft or sleeve wear. As noted above, SpiralTrac draws this particulate through its grooving system, and expels it at the impeller, significantly reducing erosion of the shaft or sleeve.

Permits the use of soft faces in many non-crystallizing applications

Typically, hard face seal combinations are used when erosive solids are present in a seal cavity. With SpiralTrac however, solids are no longer present in the cavity. Since the seal is now operating in a cleaner environment, soft face seal combinations can be used at substantially reduced costs. Soft face seal combinations will also run cooler, further extending the mechanical seal's life.

Enables seals to operate in applications not possible before

Many customers have had poor results using mechanical seals because of high solids/fiber content in the process. These solids get in around the seal area, dehydrate and consequently cause the seal to overheat and/or fail. The SpiralTrac inherent ability to remove solids/fibers from around the seal allows many of these applications to be revisited. The end result? A typical seal MTBF increase of approximately 2 to 6 times that of a conventional seal operating alone.

Protects single or double seals

Solids will enter the seal cavity whether or not a single or double seal is installed. SpiralTrac will develop a flow to remove these solids regardless of the seal design, resulting in a significant reduction or elimination of flush and increased seal MTBF.



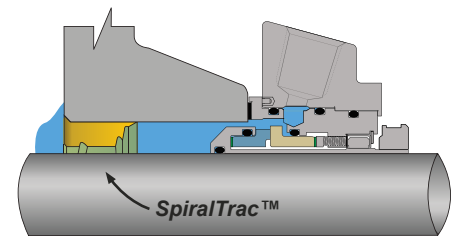
SpiralTrac™ for Blackmer® System One

Process Pumps

Seal Version SpiralTracs, specifically designed for Blackmer System One Process Pumps!



System One Pump	SpiralTrac part #		
	Version N	Version D	Version C
Frame S	NI1500RI3468(XXX)	DI1500RI3468(XXX)	CI1500RI3468(XXX)
MK II GR I / Goulds ST BCC	NI1375RI3468(XXX)	DI1375RI3468(XXX)	CI1375RI3468(XXX)
8" MK II GR II / Goulds MT BCC	NI1875RI4500(XXX)	DI1875RI4500(XXX)	CI1875RI4500(XXX)
10"/13" MK II GR II / Goulds MT BCC	NI1875RI5250(XXX)	DI1875RI5250(XXX)	CI1875RI5250(XXX)
LD 18 Durco SLS LD 23 Goulds SLS	NI1875RI3468(XXX)	DI1875RI3468(XXX)	CI1875RI3468(XXX)
Frame A ANSI	NI1875RI3982(XXX)	DI1875RI3982(XXX)	CI1875RI3982(XXX)
Frame A LD-17	NI1875RI3468(XXX)	DI1875RI3468(XXX)	CI1875RI3468(XXX)
13" & 15" MID Frame	NI2625RI4125(XXX)	DI2625RI4125(XXX)	CI2625RI4125(XXX)
Magnum	NI2500RI4250(XXX)	DI2500RI4250(XXX)	CI2500RI4250(XXX)



Common Materials

Material ID	Material	Application
316	316 stainless steel	Used in corrosive services.
416	416 stainless steel	Ideal for erosive services where chemical compatibility is not an issue.
174	17-4 stainless steel	Ultimate wear resistance for tough slurry services.

Notes

All Type I (Impeller-side installation) SpiralTracs require machining upgrades and are typically offered in metal.

Please replace "XXX" with your material of choice. For a full list of materials, please visit enviroseal.ca/spiraltrac/material. Refer to enviroseal.ca to learn more about the difference between SpiralTrac Versions.

For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca

Proudly distributed Worldwide by:



SpiralTrac™ for Chesterton 170L

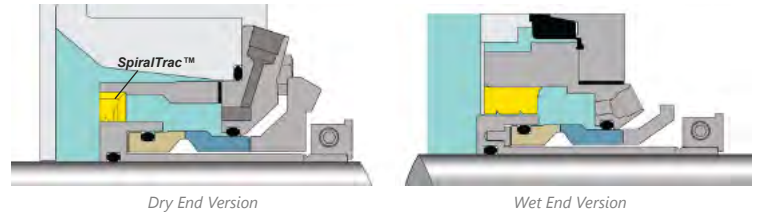
Slurry Cartridge Single Seal



The Chesterton 170L Slurry Cartridge Single Seal is designed to operate in heavy slurry environments, and it can be configured with an optional **SpiralTrac™ Environmental Controller** press fit in the seal for advanced solids removal and improved reliability. For more information please visit the 170L product page at chesterton.com

170L Slurry Seal Standard Seal Configuration Dry End Version

Seal Size (mm)	AWC Item Number	SpiralTrac Part Number	Shaft Rotation
60	396564	NM08217RI11281(2205)19-0018	Right (CW)
	396565	NM08217LI11281(2205)19-0018	Left (CCW)
	396596	NM08217RI11281(316)19-0018	Right (CW)
	396597	NM08217LI11281(316)19-0018	Left (CCW)
	396578	NM08217RI11281(BRZ)19-0018	Right (CW)
	396579	NM08217LI11281(BRZ)19-0018	Left (CCW)
85	396566	NM11293RI15248(2205)18-0419	Right (CW)
	396567	NM11293LI15248(2205)18-0419	Left (CCW)
	396598	NM11293RI15248(316)18-0419	Right (CW)
	396599	NM11293LI15248(316)18-0419	Left (CCW)
	396580	NM11293RI15248(BRZ)18-0419	Right (CW)
	396581	NM11293LI15248(BRZ)18-0419	Left (CCW)
100	396568	NM14163RI17276(2205)19-0019	Right (CW)
	396569	NM14163LI17276(2205)19-0019	Left (CCW)
	396600	NM14163RI17276(316)19-0019	Right (CW)
	396601	NM14163LI17276(316)19-0019	Left (CCW)
	396582	NM14163RI17276(BRZ)19-0019	Right (CW)
	396583	NM14163LI17276(BRZ)19-0019	Left (CCW)
130	396570	NM17338RI19791(2205)19-0020	Right (CW)
	396571	NM17338LI19791(2205)19-0020	Left (CCW)
	396602	NM17338RI19791(316)19-0020	Right (CW)
	396603	NM17338LI19791(316)19-0020	Left (CCW)
	396584	NM17338RI19791(BRZ)19-0020	Right (CW)
	396585	NM17338LI19791(BRZ)19-0020	Left (CCW)
145	396572	NM18608RI25786(2205)19-0021	Right (CW)
	396573	NM18608LI25786(2205)19-0021	Left (CCW)
	396604	NM18608RI25786(316)19-0021	Right (CW)
	396605	NM18608LI25786(316)19-0021	Left (CCW)
	396586	NM18608RI25786(BRZ)19-0021	Right (CW)
	396587	NM18608LI25786(BRZ)19-0021	Left (CCW)
180	396574	NM22004RI25786(2205)19-0024	Right (CW)
	396575	NM22004LI25786(2205)19-0024	Left (CCW)
	396606	NM22004RI25786(316)19-0024	Right (CW)
	396607	NM22004LI25786(316)19-0024	Left (CCW)
	396588	NM22004RI25786(BRZ)19-0024	Right (CW)
	396589	NM22004LI25786(BRZ)19-0024	Left (CCW)
220	396576	NM28575RI31501(2205)19-0022	Right (CW)
	396577	NM28575LI31501(2205)19-0022	Left (CCW)
	396608	NM28575RI31501(316)19-0022	Right (CW)
	396609	NM28575LI31501(316)19-0022	Left (CCW)
	396590	NM28575RI31501(BRZ)19-0022	Right (CW)
	396591	NM28575LI31501(BRZ)19-0022	Left (CCW)



170L Slurry Seal Standard Seal Configuration Wet End Version

Seal Size (mm)	AWC Item Number	SpiralTrac Part Number	Shaft Rotation
50	393261	NM07186RI10163(316)17-0498	Right (CW)
	393268	NM07186LI10163(316)17-0498	Left (CCW)
	393275	NM07186RI10163(2205)17-0498	Right (CW)
	393282	NM07186LI10163(2205)17-0498	Left (CCW)
60	393262	NM08217RI09820(316)17-0499	Right (CW)
	393269	NM08217LI09820(316)17-0499	Left (CCW)
	393276	NM08217RI09820(2205)17-0499	Right (CW)
	393283	NM08217LI09820(2205)17-0499	Left (CCW)
85	393263	NM11270RI14605(316)17-0500	Right (CW)
	393270	NM11270LI14605(316)17-0500	Left (CCW)
	393277	NM11270RI14605(2205)17-0500	Right (CW)
	393284	NM11270LI14605(2205)17-0500	Left (CCW)
	393264	NM11270RI13970(316)17-0501	Right (CW)
	393271	NM11270LI13970(316)17-0501	Left (CCW)
	393278	NM11270RI13970(2205)17-0501	Right (CW)
	393285	NM11270LI13970(2205)17-0501	Left (CCW)
100	393265	NM14163RI17145(316)17-0502	Right (CW)
	393272	NM14163LI17145(316)17-0502	Left (CCW)
	393279	NM14163RI17145(2205)17-0502	Right (CW)
	393286	NM14163LI17145(2205)17-0502	Left (CCW)
130	393266	NM17338RI19380(316)17-0503	Right (CW)
	393273	NM17338LI19380(316)17-0503	Left (CCW)
	393280	NM17338RI19380(2205)17-0503	Right (CW)
	393287	NM17338LI19380(2205)17-0503	Left (CCW)
180	393267	NM22004RI24912(316)17-0504	Right (CW)
	393274	NM22004LI24912(316)17-0504	Left (CCW)
	393281	NM22004RI24912(2205)17-0504	Right (CW)
	393288	NM22004LI24912(2205)17-0504	Left (CCW)

SpiralTrac™ for

DURCO®

Process Pumps

You have a Durco® Process Pump and you'd like to get more life out of it! Whether you use a mechanical seal or mechanical packing, the SpiralTrac™ Environmental Controller can help you extend your pump's MTBF. Ask your A.W. Chesterton representative for details.



	Mark 2			Mark 3		
	GP 1	GP 2	GP 3	GP 1	GP 2	GP 3
Regular Bore	FI1125RS1750(XXX)	FI1875RS2625(XXX)	FI2625RS3625(XXX)	FI1375RS2125(XXX)	FI1875RS2625(XXX)	FI2625RS3625(XXX)
	NI1125RB1750(XXX)	NI1875RB2625(XXX)	NI2625RB3625(XXX)	NI1375RB2125(XXX)	NI1875RB2625(XXX)	NI2625RB3625(XXX)
	CI1125RI1998(XXX)	CI1875RI2762(XXX)	CI2625RI3750(XXX)	CI1375RI2250(XXX)	CI1875RI2762(XXX)	CI2625RI3750(XXX)
	NI1125RI1998(XXX)	NI1875RI2762(XXX)	NI2625RI3750(XXX)	NI1375RI2250(XXX)	NI1875RI2762(XXX)	NI2625RI3750(XXX)
	DI1125RI1998(XXX)	DI1875RI2762(XXX)	DI2625RI3750(XXX)	DI1375RI2250(XXX)	DI1875RI2762(XXX)	DI2625RI3750(XXX)
	PI1125RS1750(XXX)24293	PI1875RS2625(XXX)24294	PI2625RS3625(XXX)24295	PI1375RS2125(XXX)24296	PI1875RS2625(XXX)24297	PI2625RS3625(XXX)24298
Big Bore	FI1125RS2625(XXX)	FI1875RS3625(XXX)	FI2625RS4625(XXX)	FI1375RS2875(XXX)	FI1875RS3625(XXX)	FI2625RS4625(XXX)
	NI1125RB2625(XXX)	NI1875RB3625(XXX)	NI2625RB4625(XXX)	NI1375RB2875(XXX)	NI1875RB3625(XXX)	NI2625RB4625(XXX)
	CI1125RI2625(XXX)	CI1875RI3625(XXX)	CI2625RI4625(XXX)	CI1375RI2875(XXX)	CI1875RI3625(XXX)	CI2625RI4625(XXX)
	NI1125RI2625(XXX)	NI1875RI3625(XXX)	NI2625RI4625(XXX)	NI1375RI2875(XXX)	NI1875RI3625(XXX)	NI2625RI4625(XXX)
	DI1125RI2625(XXX)	DI1875RI3625(XXX)	DI2625RI4625(XXX)	DI1375RI2875(XXX)	DI1875RI3625(XXX)	DI2625RI4625(XXX)
Taper Bore	CIRI (contact EnviroSeal)	CI1875RI3982(XXX)	CI2625RI5075(XXX)	CI1375RI3468(XXX)	CI1875RI3982(XXX)	CI2625RI5075(XXX)
	NIRI (contact EnviroSeal)	NI1875RI3982(XXX)	NI2625RI5075(XXX)	NI1375RI3468(XXX)	NI1875RI3982(XXX)	NI2625RI5075(XXX)
	DIRI (contact EnviroSeal)	DI1875RI3982(XXX)	DI2625RI5075(XXX)	DI1375RI3468(XXX)	DI1875RI3982(XXX)	DI2625RI5075(XXX)

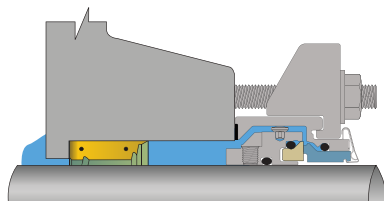
Notes

All Type I (Impeller-side installation) SpiralTracs require machining upgrades and are typically offered in metal.

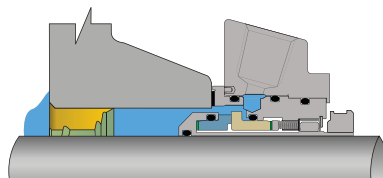
All Type B (Bore Fit) SpiralTracs require a 5/32" vent hole to be drilled to continue the air vent.

All Packing devices are configured to allow for 2 rings of packing.

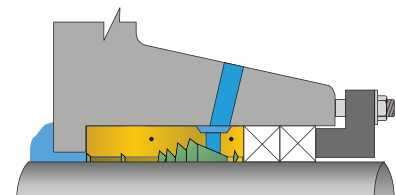
Please replace "XXX" with your material of choice. For a full list of materials please visit enviroseal.ca/spiraltrac/material



SpiralTrac Version F Type S



SpiralTrac Version N/D/C Type I



Split Packing Version SpiralTrac (Version P)

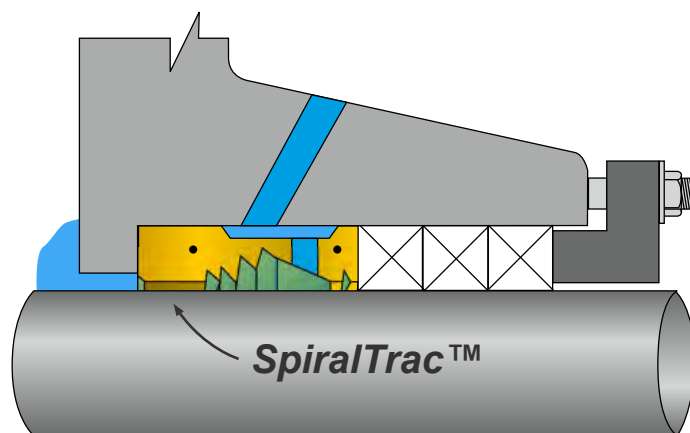
SpiralTrac™ for FLOWSERVE® FRBH

Worthington - Industrial Process Pumps

Packing Version SpiralTrac™ specifically designed for Flowserve
Worthington FRBH Series Industrial Process Pumps.



Model	SpiralTrac part #
2 FRBH - 121	PI2000RS2750(XXX)2L1.050
3 FRBH - 121	PI2000RS2750(XXX)2L1.050
3 FRBH - 101	PI2000RS2750(XXX)2L1.050
4 FRBH - 111	PI2000RS2750(XXX)2L1.050
6 FRBH - 111	PI2000RS2750(XXX)2L1.050
3 FRBH - 141	PI2000RS2750(XXX)2L1.050
4 FRBH - 141	PI2000RS2750(XXX)2L1.050
6 FRBH - 142	PI3000RS4000(XXX)2L1.150
8 FRBH - 152	PI3000RS4000(XXX)2L1.150
4 FRBH - 182	PI3000RS4000(XXX)2L1.150
8 FRBH - 182	PI3000RS4000(XXX)2L1.150
10 FRBH - 182	PI3000RS4000(XXX)2L1.150
6 FRBH - 183	PI3750RS5000(XXX)2L1.435
14 FRBH - 183	PI3750RS5000(XXX)2L1.435
6 FRBH - 223	PI3750RS5000(XXX)2L1.435
8 FRBH - 223	PI3750RS5000(XXX)2L1.435
12 FRBH - 234	PI4750RS6000(XXX)2L1.625
14 FRBH - 244	PI4750RS6000(XXX)2L1.625
16 FRBH - 244	PI4750RS6000(XXX)2L1.625
18 FRBH - 274	PI4750RS6000(XXX)2L1.625



Notes

Please replace "XXX" with material ID for complete part # when ordering. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material

SpiralTrac is axially split for ease of installation without pump disassembly. If solid device is required, please let us know and do not use these part numbers.

SpiralTrac part numbers are based on replacing the bottom 2 rings of packing and the lantern ring.

EnviroSeal always recommends flow controls when installing Packing Version SpiralTrac.

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.

For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca



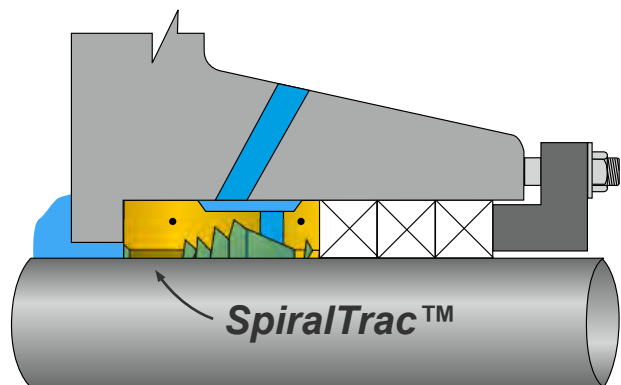
SpiralTrac™ for FLOWSERVE® MN

Worthington - Solids-Handling Pumps

Packing Version SpiralTrac™ specifically designed for Flowserve Worthington MN Series Solids-Handling Pumps. It is the perfect upgrade to a pump that is originally designed for demanding services where solids in the process can be an issue.



Model Frame Size	SpiralTrac part #
5A	PI2750_S3750(XXX)2L1.000
6A	PI3500_S4500(XXX)2L1.000
7L	PI4500_S5500(XXX)2L1.000
7H (except 16 MN-19)	PI4500_S5500(XXX)2L1.000
7H (16 MN 19)	PI5000_S6250(XXX)2L1.250
8L	PI5000_S6250(XXX)2L1.250
8H	PI5000_S6250(XXX)2L1.250
8HA	PI5877_S7381(XXX)2L1.496
9H	PI7067_S8563(ESC)2L1.504
9HA	PI8238_S9764(ESC)2L1.474



Notes

Model MN Pump is a tangential discharge pump and can be supplied to operate in a CW or CCW direction, depending on customer's requirement. Please replace the "_" in the part numbers with either "R" for right (CW) rotation or "L" for left (CCW) rotation.

Please replace "XXX" with material ID for complete part # when ordering. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material

SpiralTrac is axially split for ease of installation without pump disassembly. If solid device is required, please let us know and do not use these part numbers.

SpiralTrac part numbers are based on replacing the bottom 2 rings of packing and the lantern ring.

EnviroSeal always recommends flow controls when installing Packing Version SpiralTrac.

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.

For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca



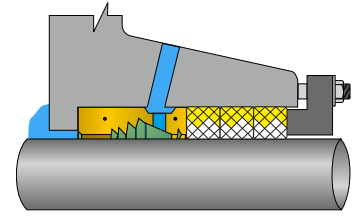
SpiralTrac™ for FLOWSERVE® MF

Worthington - Solids-Handling Pumps

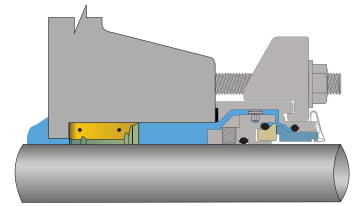
SpiralTrac™ specifically designed for Flowserve Worthington MF Series Solids-Handling Pumps. It is the perfect upgrade to a pump that is originally designed for demanding services where solids in the process can be an issue.



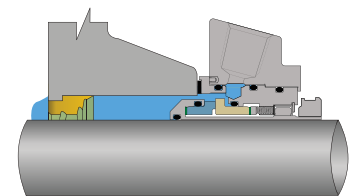
Model Frame Size	Packing Version	SpiralTrac part #	
		Version F <i>Flush required, commonly used with Chesterton 442, 442C split mechanical seals</i>	Version D <i>Commonly used with Chesterton cartridge seals</i>
3A	PI1750_S2500(ESC)0L1.500	FI1750_S2500(ESC)	DI1750_A2500(XXX)2.340/0.312
4T	PI2125_S2875(ESC)0L1.500	FI2125_S2875(ESC)	DI2125_A2875(XXX)2.715/0.312
5T	PI2750_S3750(ESC)0L2.000	FI2750_S3750(ESC)	DI2750_A3750(XXX)3.590/0.312
6A	PI3500_S4500(ESC)0L2.000	FI3500_S4500(ESC)	DI3500_A4500(XXX)4.340/0.312
7A	PI4500_S5500(ESC)0L2.000	FI4500_S5500(ESC)	DI4500_A5500(XXX)5.340/0.312
8H	PI5000_S6250(ESC)0L2.500	FI5000_S6250(ESC)	DI5000_A6250(XXX)6.090/0.312



Split Packing Version SpiralTrac (Version P)



SpiralTrac Version F Type S



SpiralTrac Version D Type A

Please replace "XXX" with material ID for complete part # when ordering. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material or email us at support@enviroseal.ca

Notes

Model MF Pump is a tangential discharge pump and can be supplied to operate in a CW or CCW direction, depending on customer's requirement. Please replace the "_" in the part numbers with either "R" for right (CW) rotation or "L" for left (CCW) rotation.

Packing Version and Version F SpiralTrac is axially split for ease of installation without pump disassembly. Version D is a solid device that requires pump disassembly for installation.

Packing SpiralTrac part numbers are based on replacing the bottom 2 rings of packing and the lantern ring.

EnviroSeal always recommends flow controls when installing Packing Version SpiralTrac.

Order the Packing Version SpiralTrac as a **Chesterton SuperSet** with high quality Chesterton packing.

For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca



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SpiralTrac™ for

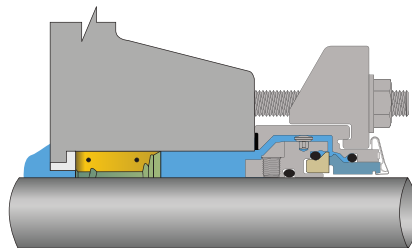
GOULDS® 3175

Paper Stock/Process Pumps

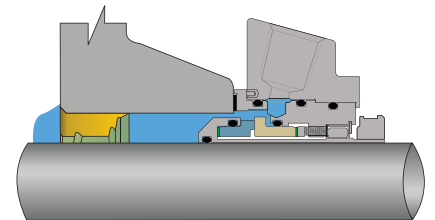
The wildly popular Goulds 3175 Series Process Pumps are known for their versatility and reliability. Whether it is sealed with a mechanical seal or packing, you can greatly improve your solution by incorporating the SpiralTrac Environmental Controller in your Goulds 3175 Series Process Pump.



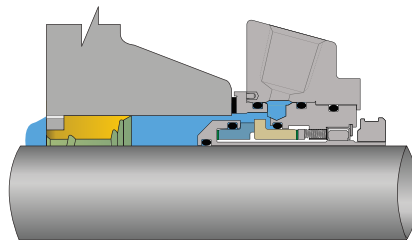
GOULDS Model	SpiralTrac part #
3175 S	NI3000RB4000(XXX)
	NI3000RI4000(XXX)
	DI3000RI4000(XXX)
	CI3000RI4000(XXX)
	NI3000RA4000(XXX)3.500/0.625
	DI3000RA4000(XXX)3.500/0.625
	FI3000RS4000(XXX)
	PI3000RS4000(XXX)2L1.000
3175 M	NI3750RB4750(XXX)
	NI3750RI4750(XXX)
	DI3750RI4750(XXX)
	CI3750RI4750(XXX)
	NI3750RA4750(XXX)4.250/0.625
	DI3750RA4750(XXX)4.250/0.625
	FI3750RS4750(XXX)
	PI3750RS4750(XXX)2L1.000
3175 L	NI4750RB5750(XXX)
	NI4750RI5750(XXX)
	DI4750RI5750(XXX)
	CI4750RI5750(XXX)
	NI4750RA5750(XXX)5.250/0.625
	DI4750RA5750(XXX)5.250/0.625
	FI4750RS5750(XXX)
	PI4750RS5750(XXX)2L1.000



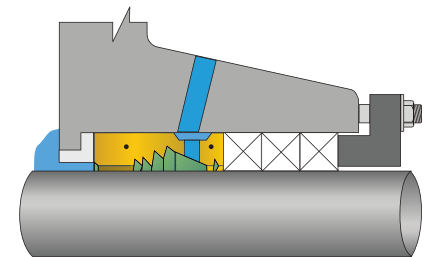
SpiralTrac Version F Type S



SpiralTrac Version N/D/C Type I



SpiralTrac Version N/D Type A



Split Packing Version SpiralTrac (Version P)

Notes

Please replace "XXX" with your material of choice. For a full list of materials please visit enviroseal.ca/spiraltrac/material

Find existing GOULDS 3175 successes in our literature section at enviroseal.ca

For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca.

For the ultimate sealing solution, pair it with a Chesterton Mechanical Seal (seal version) or order as a **Chesterton SuperSet** with high quality Chesterton packing (packing version).



SpiralTrac™ for

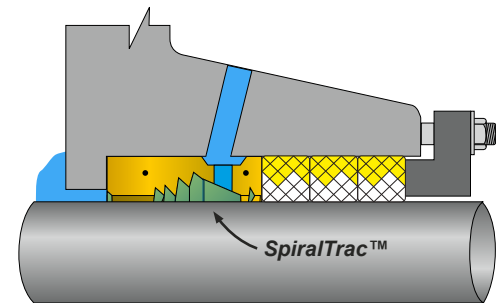
GOULDS® 3180

Heavy Duty Process Pump



Packing Version SpiralTracs, specifically designed for GOULDS Model 3180 heavy duty process pumps!

GOULDS Model (packed box)	SpiralTrac part #	
	Left Rotation (CCW)	Right Rotation (CW)
3180 S	PI2362LS3346(ESC)21196	PI2362RS3346(ESC)21196
3180 M	PI2756LS3740(ESC)21197	PI2756RS3740(ESC)21197
3180 L	PI3150LS4134(ESC)21198	PI3150RS4134(ESC)21198
3180 XL	PI3740LS4724(ESC)21199	PI3740RS4724(ESC)21199



Notes

Goolds 3180 pumps come with multiple box designs. These standard SpiralTrac part numbers are designed for the **packed box variant only!** SpiralTrac is available for the other variants, please reach out to EnviroSeal with application details.

Allows for 3 rings of packing.

EnviroSeal always recommend flow controls when installing Packing Version SpiralTrac.

Find existing GOULDS successes in our literature section at enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.



For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca. Proudly distributed Worldwide by:



SpiralTrac™ for

GOULDS® 3196

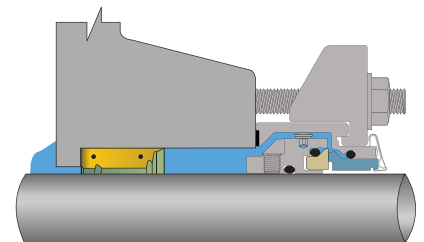
i-FRAME Process Centrifugal Pumps

The wildly popular Goulds 3196 Series Process Pumps are known for their versatility and reliability. Whether it is sealed with a mechanical seal or packing, you can greatly improve your solution by incorporating the SpiralTrac Environmental Controller in your Goulds 3196 Series Process Pump.

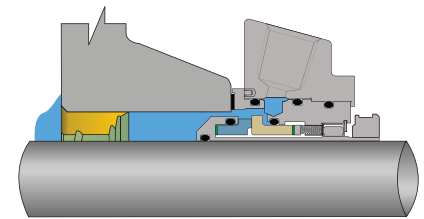


GOULDS Model	SpiralTrac Part #	
3196 ST	NI1375RB2000(XXX)	
	NI1375RI2250(XXX)	
	Regular bore	DI1375RI2250(XXX)
		CI1375RI2250(XXX)
	F11375RS2000(XXX)	
	PI1375RS2000(XXX)3L0.437	
	Big bore	NI1375RI2880(XXX)
		DI1375RI2880(XXX)
		CI1375RI2880(XXX)
	Taper bore	NI1375RI3293(XXX)
DI1375RI3293(XXX)		
CI1375RI3293(XXX)		
3196 MT	NI1750RB2500(XXX)	
	NI1875RI2762(XXX)	
	Regular bore	DI1875RI2762(XXX)
		CI1875RI2762(XXX)
	F11750RS2500(XXX)	
	PI1750RS2500(XXX)2L0.625	
	Big bore	NI1875RI3500(XXX)
		DI1875RI3500(XXX)
		CI1875RI3500(XXX)
	Taper bore	NI1875RI4063(XXX)
		DI1875RI4063(XXX)
		CI1875RI4063(XXX)

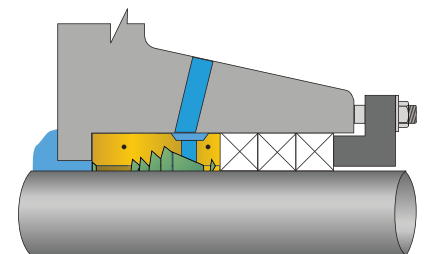
GOULDS Model	SpiralTrac Part #	
3196 LT	NI2125RB2875(XXX)	
	NI2125RI2998(XXX)	
	Regular bore	DI2125RI2998(XXX)
		CI2125RI2998(XXX)
	F12125RS2875(XXX)	
	PI2125RS2875(XXX)2L0.625	
	Big bore	NI2125RI3880(XXX)
		DI2125RI3880(XXX)
		CI2125RI3880(XXX)
	Taper Bore	NI2125RI4375(XXX)
DI2125RI4375(XXX)		
CI2125RI4375(XXX)		
3196 XLT	NI2500RB3375(XXX)	
	NI2500RI3468(XXX)	
	Regular bore	DI2500RI3468(XXX)
		CI2500RI3468(XXX)
	F12500RS3375(XXX)	
	PI2500RS3375(XXX)2L0.625	
	Big bore	NI2500RI4750(XXX)
		DI2500RI4750(XXX)
		CI2500RI4750(XXX)
	Taper Bore	NI2500RI5200(XXX)
		DI2500RI5200(XXX)
CI2500RI5200(XXX)		



SpiralTrac Version F Type S



SpiralTrac Version N/D/C Type I



Split Packing Version SpiralTrac (Version P)

Notes

Please replace "XXX" with your material of choice. For a full list of materials please visit enviroseal.ca/spiraltrac/material

Find existing GOULDS 3196 successes in our literature section at enviroseal.ca

For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca.

SpiralTrac™ for

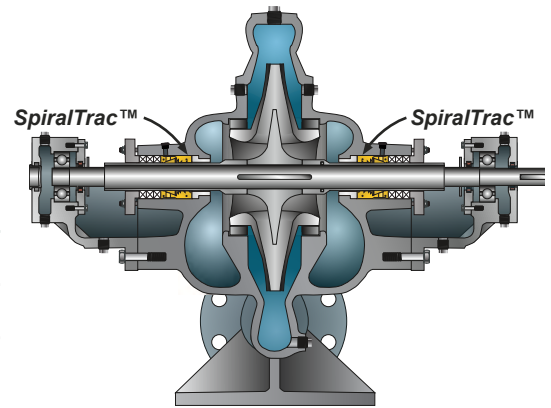
GOULDS® 3316

Two Stage, Horizontally Split Case Pump

Packing Version SpiralTracs, specifically designed for GOULDS Model 3316 split case pumps!



GOULDS Model	SpiralTrac part #	
	Left Rotation (CCW)	Right Rotation (CW)
3316 S	PI1375LS2000(ESC)0L1.250	PI1375RS2000(ESC)0L1.250
3316 M	PI1750LS2500(ESC)25173	PI1750RS2500(ESC)25173
3316 L	PI2500LS3250(ESC)25174	PI2500RS3250(ESC)25174



Notes

Double ended split case pumps require both right hand (CW) and left hand (CCW) rotation SpiralTracs.

Allows for 3 rings of packing with original L-shaped bushing left in place.

For SpiralTrac to be used with a mechanical seal, please contact EnviroSeal at support@enviroseal.ca

EnviroSeal always recommends flow controls when installing Packing Version SpiralTrac.

Find existing GOULDS successes in our literature section at enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.



For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca. Proudly distributed Worldwide by:



SpiralTrac™ for

GOULDS® 3405

Double Suction Centrifugal Pumps

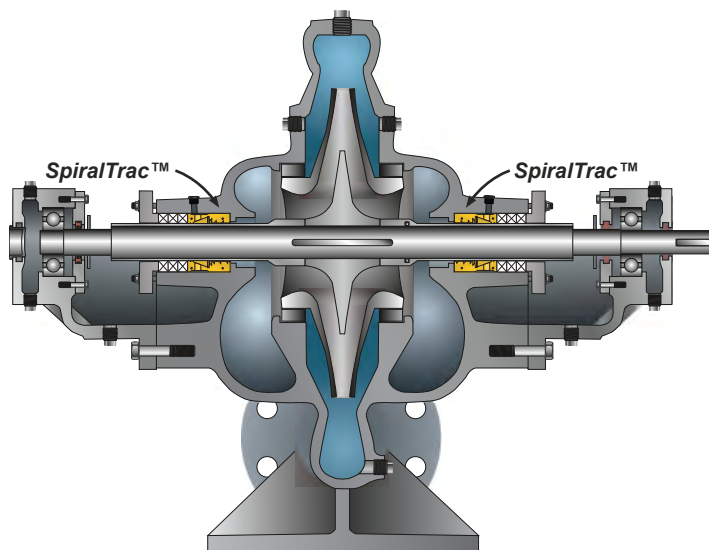
Packing Version and Seal Version SpiralTracs, specifically designed for GOULDS Model 3405 double suction centrifugal pumps!



FI1750RS2500(ESC)

GOULDS Model	SpiralTrac part # Seal Version* (Version F)		SpiralTrac part # Packing Version	
	Left Rotation (CCW)	Right Rotation (CW)	Left Rotation (CCW)	Right Rotation (CW)
3405 S	FI1375LS2000(XXX)	FI1375RS2000(XXX)	PI1375LS2000(XXX)0L1.250	PI1375RS2000(XXX)0L1.250
3405 M	FI1750LS2500(XXX)	FI1750RS2500(XXX)	PI1750LS2500(XXX)25173	PI1750RS2500(XXX)25173
3405 L	FI2500LS3250(XXX)	FI2500RS3250(XXX)	PI2500LS3250(XXX)25174	PI2500RS3250(XXX)25174

* Designed to be used with Chesterton 442, 442C Split Mechanical Seals. Please replace "XXX" with material ID for complete part # when ordering. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material or email us at support@enviroseal.ca

**Notes**

Double ended split case pumps require both right hand (CW) and left hand (CCW) rotation SpiralTracs.

Seal Version SpiralTrac is designed to be used with Chesterton 442, 442C Split Mechanical Seals. For other seal compatibility, please reach out to support@enviroseal.ca

Packing Version SpiralTrac allows for 3 rings of packing.

EnviroSeal always recommend flow controls when installing Packing Version SpiralTrac.

Non split SpiralTrac configurations are available, email support@enviroseal.ca for details.

Find existing GOULDS successes in our literature section at enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.



For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca. Proudly distributed Worldwide by:



SpiralTrac™ for

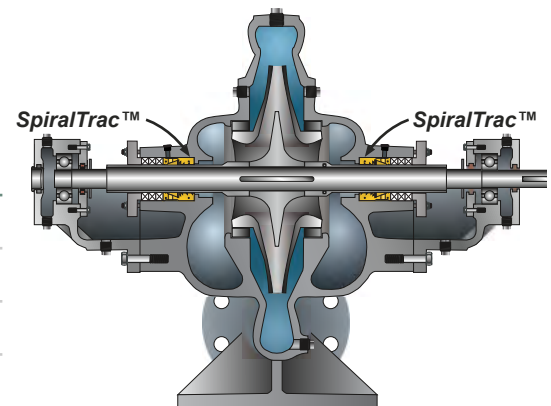
GOULDS® 3410

Small Capacity Double Suction Pump

Packing Version SpiralTracs, specifically designed for GOULDS Model 3410 small capacity double suction centrifugal pumps with packed box!



GOULDS Model (packed box)	SpiralTrac part #	
	Left Rotation (CCW)	Right Rotation (CW)
3410 S	PI1750LS2500(ESC)25187	PI1750RS2500(ESC)25187
3410 M	PI2125LS2875(ESC)25290	PI2125RS2875(ESC)25290
3410 L	PI2750LS3750(ESC)2L1.185	PI2750RS3750(ESC)2L1.185
3410 XL	PI3000LS4000(ESC)2L1.185	PI3000RS4000(ESC)2L1.185

**Notes**

Double ended split case pumps require both right hand (CW) and left hand (CCW) rotation SpiralTracs.

Goolds 3410 pumps come with two different box designs (packed box and seal box). These standard SpiralTrac part numbers are designed for the **packed box variant only!**

Allows for 3 rings of packing.

EnviroSeal always recommend flow controls when installing Packing Version SpiralTrac.

Seal Version SpiralTracs are available for Goolds 3410 as well, please email support@enviroseal.ca for details.

Find existing GOULDS successes in our literature section at enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.



For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca. Proudly distributed Worldwide by:



SpiralTrac™ for

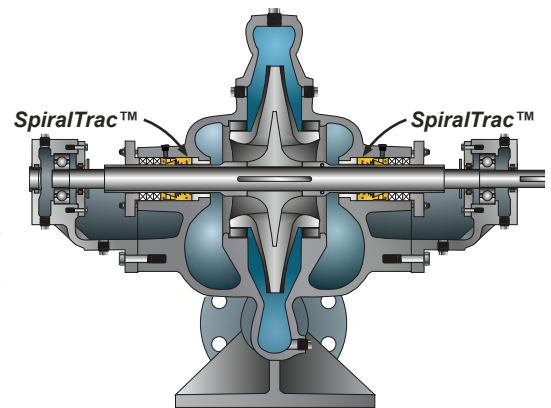
GOULDS® 3415

Double Suction Pump

Packing Version SpiralTracs, specifically designed for GOULDS Model 3415 double suction centrifugal pumps with packed box!



GOULDS Model (packed box)	SpiralTrac part #	
	Left Rotation (CCW)	Right Rotation (CW)
3415 S	PI3750LS5000(ESC)24184	PI3750RS5000(ESC)24184
3415 M	PI4375LS5625(ESC)24185	PI4375RS5625(ESC)24185



Notes

Double ended split case pumps require both right hand (CW) and left hand (CCW) rotation SpiralTracs.

Goolds 3415 pumps come with two different box designs (packed box and seal box). These standard SpiralTrac part numbers are designed for the **packed box variant only!**

Allows for 3 rings of packing with original L-shaped bushing left in place.

EnviroSeal always recommend flow controls when installing Packing Version SpiralTrac.

Find existing GOULDS successes in our literature section at enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.



For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca. Proudly distributed Worldwide by:



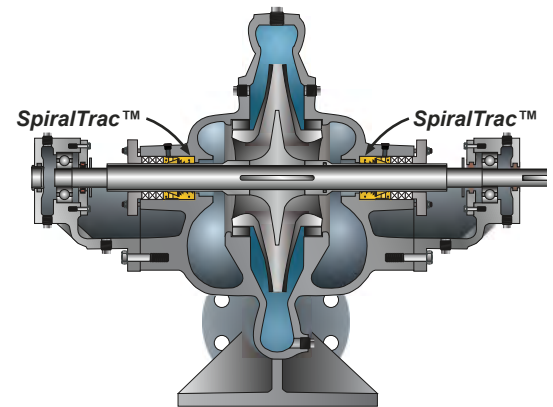
SpiralTrac™ for GOULDS® 3420

Large Capacity Double Suction Pump

Packing Version SpiralTracs, specifically designed for GOULDS Model 3420 large capacity double suction centrifugal pumps with packed box!



Size	SpiralTrac part #	
	Left Rotation (CCW)	Right Rotation (CW)
12x14-15	PI4125LS5375(ESC)2L0.937	PI4125RS5375(ESC)2L0.937
16x18-15	PI4125LS5375(ESC)2L0.937	PI4125RS5375(ESC)2L0.937
16x18-30	PI5500LS7500(ESC)2L1.250	PI5500RS7500(ESC)2L1.250
18x20-24	PI5000LS6250(ESC)2L1.250	PI5000RS6250(ESC)2L1.250
18x20-30	PI5500LS7500(ESC)2L1.250	PI5500RS7500(ESC)2L1.250
20x24-24	PI5500LS7500(ESC)2L1.250	PI5500RS7500(ESC)2L1.250
20x24-28	PI5500LS7500(ESC)2L1.250	PI5500RS7500(ESC)2L1.250
20x24-30	PI5500LS7500(ESC)2L1.250	PI5500RS7500(ESC)2L1.250
20x30-32	PI7500LS9500(ESC)2L1.125	PI7500RS9500(ESC)2L1.125
24x30-32	PI6500LS8500(ESC)2L1.500	PI6500RS8500(ESC)2L1.500
30x30-31	PI7500LS9500(ESC)2L1.125	PI7500RS9500(ESC)2L1.125
30x30-38	PI7500LS9500(ESC)2L1.125	PI7500RS9500(ESC)2L1.125
30x36-42	PI8000LS10000(ESC)2L1.500	PI8000RS10000(ESC)2L1.500
36x42-52	PI9000LS11000(ESC)2L1.125	PI9000RS11000(ESC)2L1.125



Notes

Double ended split case pumps require both right hand (CW) and left hand (CCW) rotation SpiralTracs!

Goolds 3420 pumps come with two different box designs (packed box and seal box). These standard SpiralTrac part numbers are designed for the **packed box variant only!**

Allows for 3 rings of packing.

EnviroSeal always recommend flow controls when installing Packing Version SpiralTrac.

Seal Version SpiralTracs are available for Goolds 3410 as well, please email support@enviroseal.ca for details.

Find existing GOULDS successes in our literature section at enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.



For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca. Proudly distributed Worldwide by:



SpiralTrac™ for

GOULDS® 5500

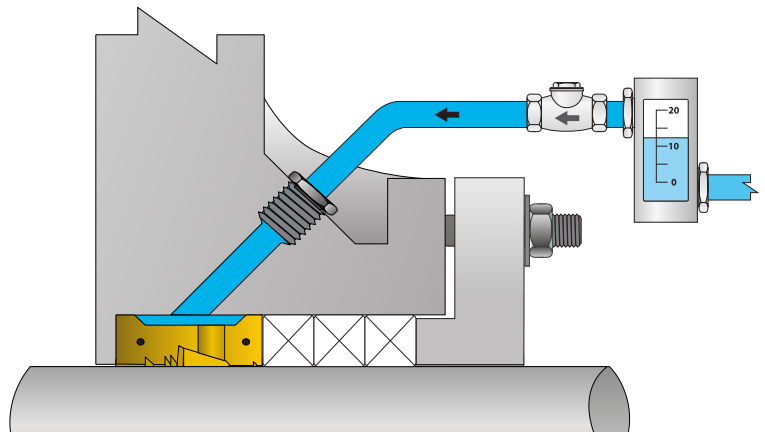
Severe Duty Slurry Pump



Packing Version SpiralTrac, specifically designed for GOULDS 5500 Slurry Pumps.

GOULDS 5500	SpiralTrac part #	Packing rings required
B2	PI3750RS4755(XXX)0L2.000	3
B2 HP	PI3750RS4755(XXX)0L2.000	5
B3	PI5000RS6255(XXX)0L2.500	3
B3 HP	PI5000RS6255(XXX)0L2.500	5
B4	PI6250RS7755(XXX)0L3.000	3
B4 12x14-38	PI6250RS7755(XXX)0L3.000	3
B4 HP	PI6250RS7755(XXX)0L3.000	5
B5	PI8000RS9505(XXX)0L3.250	3

Please replace "XXX" with material ID for complete part # when ordering.



Split Packing Version SpiralTrac

Common Materials

Material ID	Material	Application
ESC	Carbon graphite PTFE	Engineered Polymer used in a wide variety of applications.
316	316 stainless steel	Used in corrosive services.
416	416 stainless steel	Ideal for erosive services where chemical compatibility is not an issue.
BRZ	660 bearing grade bronze	Good wear properties, absorbs moderate shaft deflection.
174*	17-4PH stainless steel	Ultimate wear resistance for tough slurry services.

*heat treating option is available for 17-4PH stainless steel material.
Find all our materials on enviroseal.ca or email us at support@enviroseal.ca

Notes

SpiralTrac options to be used with mechanical seal are available, please reach out to support@enviroseal.ca with application details.

EnviroSeal always recommends flow controls when installing Packing Version SpiralTrac.

SpiralTrac is axially split for ease of installation without pump disassembly. If solid device is required, please contact EnviroSeal.

Find existing GOULDS successes in our literature section at enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.



For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca.
Proudly distributed Worldwide by:



SpiralTrac™ for GOULDS® SRL / SRL-C

Severe Duty Slurry Pumps



Packing Version SpiralTrac™ specifically designed to fit Goulds SRL / SRL-C Slurry Pumps.



Option 1
standard profile (no step)



Option 2
SpiralTrac with step



Option 3
SpiralTrac with taper

SRL

Size	SpiralTrac part #		
	Option 1	Option 2	Option 3
2x2-10	PI1625RS2375(XXX)0L1.375	PI1625RS2375(XXX)28052	n/a
3x3-10	PI2000RS3000(XXX)0L1.950	n/a	PI2000RS3000(XXX)28100
5x5-14	PI2375RS3375(XXX)0L1.875	n/a	PI2375RS3375(XXX)28101
6x6-15	PI2375RS3375(XXX)0L1.938	PI2375RS3375(XXX)28053	n/a

SRL-C

Size	SpiralTrac part #		
	Option 1	Option 2	Option 3
3x3-10	PI2000RS3000(XXX)0L1.950	n/a	PI2000RS3000(XXX)28100
5x4-14	PI2375RS3375(XXX)0L1.875	n/a	PI2375RS3375(XXX)28101
8x6-18	PI3750RS4750(XXX)0L1.875	PI3750RS4750(XXX)27563	n/a
10x8-21	PI3750RS4750(XXX)0L1.812	PI3750RS4750(XXX)27555	n/a
12x10-25	PI5000RS6500(XXX)0L3.250	PI5000RS6500(XXX)27554	n/a
14x12-29	PI5000RS6500(XXX)0L3.250	PI5000RS6500(XXX)28102	n/a
16x14-34	PI6250RS7875(XXX)0L3.312	PI6250RS7875(XXX)27556	n/a
20x18-40	PI7277RS8750(XXX)0L2.000	PI7277RS8750(XXX)28103	n/a

Please replace "XXX" with material ID for complete part # when ordering. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material or email us at support@enviroseal.ca

Notes

Allows for 3 rings of packing.

EnviroSeal always recommend flow controls when installing Packing Version SpiralTrac.

For Seal Version SpiralTrac options, please email us at support@enviroseal.ca

Find existing Goulds successes in our literature section at enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.

For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca. Proudly distributed Worldwide by:



SpiralTrac™ for GOULDS® XHD

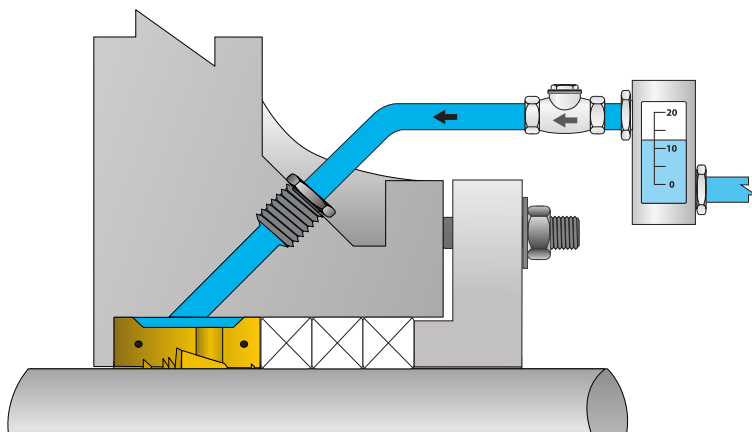
Extra Heavy Duty Lined Slurry Pumps

Packing Version SpiralTrac, specifically designed for GOULDS XHD Slurry Pumps.



GOULDS XHD	SpiralTrac part #	Packing rings required
PF0	PM06700RS08650(XXX)0L33.48	3
PF1	PM06700RS08650(XXX)0L33.48	3
PF2	PM08200RS10150(XXX)0L33.48	3
PF3	PM10500RS13150(XXX)0L41.50	3
PF4	PM13500RS16700(XXX)0L44.55	3
PF5	PM17500RS21375(XXX)0L60.48	3

Please replace "XXX" with material ID for complete part # when ordering.



Split Packing Version SpiralTrac

Common Materials

Material ID	Material	Application
ESC	Carbon graphite PTFE	Engineered Polymer used in a wide variety of applications.
316	316 stainless steel	Used in corrosive services.
416	416 stainless steel	Ideal for erosive services where chemical compatibility is not an issue.
BRZ	660 bearing grade bronze	Good wear properties, absorbs moderate shaft deflection.
174*	17-4PH stainless steel	Ultimate wear resistance for tough slurry services.

*heat treating option is available for 17-4PH stainless steel material. Find all our materials on enviroseal.ca or email us at support@enviroseal.ca

Notes

SpiralTrac options to be used with mechanical seal are available, please reach out to support@enviroseal.ca with application details.

EnviroSeal always recommends flow controls when installing Packing Version SpiralTrac.

SpiralTrac is axially split for ease of installation without pump disassembly. If solid device is required, please contact EnviroSeal.

Find existing GOULDS successes in our literature section at enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.



For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca. Proudly distributed Worldwide by:

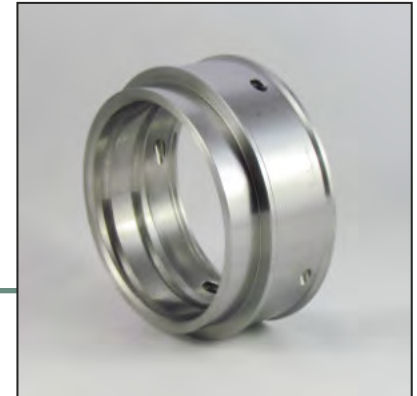


SpiralTrac™ for

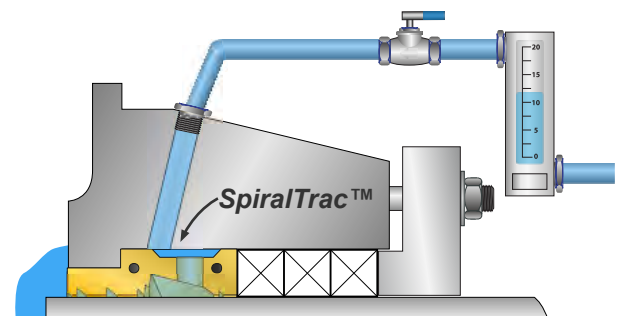
KREBS® millMAX™

Slurry Pumps

Packing Version SpiralTrac™ specifically designed to fit in KREBS millMAX™ Series Slurry Pumps. The SpiralTrac Environmental Controller replaces the OEM L-shaped bushing and bottom packing ring (high flow configuration) or the bottom packing ring and lantern ring (low flow configuration).



KREBS Pump Model	Size	SpiralTrac Part #	Packing rings required
MM80	3x2-9	PM06400RS08300(XXX)11-0648	3
MM100	4x3-12	PM08600RS11200(XXX)11-0649	3
MM100	4x3-17	PM08600RS11200(XXX)11-0649	3
MM150	6x4-16	PM11000RS14200(XXX)11-0650	3
MM150	6x4-21	PM11000RS14200(XXX)11-0650	3
MM200	8x6-20	PM11000RS14200(XXX)11-0650	3
MM200	8x6-24	PM11000RS14200(XXX)11-0650	3
MM250	10x8-24	PM14000RS17800(XXX)11-0651	3
MM300	12x10-30	PM14000RS17800(XXX)11-0651	3
MM350	14x12-36	PM17780RS21700(XXX)11-0622	3
MM400	16x14-39	PM17780RS21700(XXX)11-0622	3
MM500	20x18-46	PM22860RS28000(XXX)11-0656	4
MM600	24x20-54	PM27940RS33100(XXX)11-0623	4
MM700	28x26-64	PM27940RS33100(XXX)11-0623	4
UM900	-	PM36830RS42000(XXX)12-0107	5



Notes

Please replace "XXX" with your material of choice. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material

All SpiralTracs are designed to use the flush port closest to the impeller end and have extra clearance on the ID.

SpiralTrac is axially split for ease of installation without pump disassembly. If solid device is required, please contact EnviroSeal.

Find existing KREBS millMAX successes in our literature section at enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.

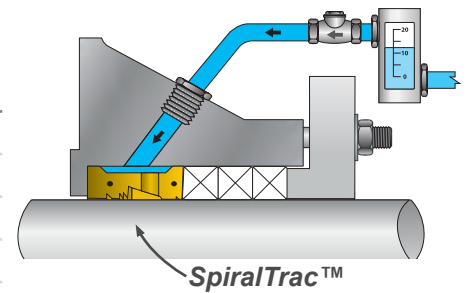


SpiralTrac™ for

Metso®

Slurry Pumps

Packing Version SpiralTrac™ specifically designed to fit in Metso Slurry Pumps. For over two decades, the SpiralTrac Environmental Controller has been the most effective solution to help reduce equipment water usage and increase overall reliability.



Metso Frame	SpiralTrac Part Number	
	Material: ESC (carbon filled PTFE)	Material: Metal*
250	PM05890RS07800(ESC)0L23.00	PM05890RS07800(XXX)21-0071
300	PM08250RS10500(ESC)0L23.70	PM08250RS10500(XXX)21-0072
400	PM10130RS12700(ESC)0L28.00	PM10130RS12700(XXX)21-0073
500	PM11500RS14300(ESC)0L30.00	PM11500RS14300(XXX)21-0074
600	PM13000RS16200(ESC)0L33.70	PM13000RS16200(XXX)21-0075
750	PM14450RS17700(ESC)0L36.40	PM14450RS17700(XXX)21-0076
900	PM19800RS24600(ESC)0L64.80	PM19800RS24600(XXX)21-0077
1000	PM22000RS26800(ESC)0L64.80	PM22000RS26800(XXX)21-0078
1200	PM25400RS30500(ESC)0L74.50	PM25400RS30500(XXX)21-0079
1200 made before 2005	PM25400RS30200(ESC)0L74.50	PM25400RS30200(XXX)21-0080
1400	PM25400RS30500(ESC)0L67.00	PM25400RS30500(XXX)21-0081
1600	PM33000RS38100(ESC)0L67.00	PM33000RS38100(XXX)21-0082

Notes

Please replace "XXX" with your material of choice. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material

Installed with 3 rings of packing.

SpiralTrac is axially split for ease of installation without pump disassembly. If solid device is required, please contact EnviroSeal.

EnviroSeal always recommends flow controls when installing a Packing Version SpiralTrac.

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.

For ordering, please contact your local Chesterton representative or email support@enviroseal.ca.



SpiralTrac™ for Pulp & Paper Refiners

Beloit DD & Sprout Waldron

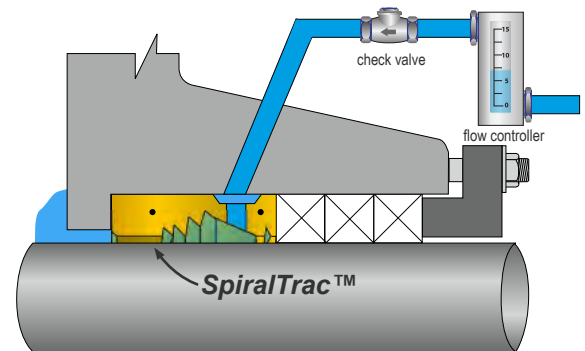
By design, the Packing Version SpiralTrac™ enables greatly reduced flush through enhanced utilization of the flow and centrifugal effects around the rotating shaft. The SpiralTrac active throat bushing helps preventing fiber accumulation, which is a common cause of premature shaft and sleeve wear in Pulp & Paper applications. Installed and used in refiners across the Globe, the SpiralTrac Environmental Controller is the proven solution to maximize your equipment's life and potential.



Packing Version SpiralTrac GLF material

Standard Part Numbers

BELOIT DD REFINER		SPROUT WALDRON REFINER	
Size	SpiralTrac part #	Size	SpiralTrac part #
20"	PI4625RS5625(XXX)22334	20"	PI4062RS5062(XXX)2L1.000
24"	PI4625RS5625(XXX)22334	26"	PI5062RS6062(XXX)1L1.000
26"	PI5750RS7000(XXX)1L1.875	34"	PI6125RS7375(XXX)2L1.000
30"	PI5750RS7000(XXX)1L1.875	42"	PI8010RS9265(XXX)2L1.000
34"	PI6250RS7500(XXX)2L1.750		
38"	PI6250RS7500(XXX)2L1.750		
42"	PI8250RS9750(XXX)22313		
46"	PI8250RS9750(XXX)22313		



Notes

The referenced part numbers are for Packing Version SpiralTrac and are to be used with mechanical packing only. If a mechanical seal is used, please reach out to us at support@enviroseal.ca

The referenced refiners are double ended, one left (CCW) and one right (CW) rotation SpiralTrac are required for each installation.

Please replace "XXX" with your material of choice. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material

EnviroSeal always recommends flow controls when installing a Packing Version SpiralTrac.

We have an extensive library of equipment specific SpiralTrac devices, please let us know if you are interested in other refiner types and models.

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.

For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca.



SpiralTrac™ for Sulzer / Ahlstrom AHLSTAR APP APT

Process Pumps

The AHLSTAR end-suction single-stage centrifugal process pumps are known for their reliability when it comes to demanding industrial applications. Maximize the benefits of your chosen sealing solution by incorporating the SpiralTrac™ Environmental Controller in your setup. Reach out to us, or ask your A.W. Chesterton representative for details.



SpiralTrac for Mechanical Seals

Bearing Size	APP SpiralTrac Part Number			APT SpiralTrac Part Number		
	Version N	Version D	Version C	Version N	Version D	Version C
1	N-40APP1(XXX)	D-40APP1(XXX)	C-40APP1(XXX)	N-1575APT1(XXX)	D-1575APT1(XXX)	C-1575APT1(XXX)
2	N-50APP2(XXX)	D-50APP2(XXX)	C-50APP2(XXX)	N-1969APT2(XXX)	D-1969APT2(XXX)	C-1969APT2(XXX)
3	N-60APP3(XXX)	D-60APP3(XXX)	C-60APP3(XXX)	N-2362APT3(XXX)	D-2362APT3(XXX)	C-2362APT3(XXX)
4	N-70APP4(XXX)	D-70APP4(XXX)	C-70APP4(XXX)	N-2756APT4(XXX)	D-2756APT4(XXX)	C-2756APT4(XXX)
5	N-90APP5(XXX)	D-90APP5(XXX)	C-90APP5(XXX)	N-3543APT5(XXX)	D-3543APT5(XXX)	C-3543APT5(XXX)
6	N-100APP6(XXX)	D-100APP6(XXX)	C-100APP6(XXX)	N-3937APT6(XXX)	D-3937APT6(XXX)	C-3937APT6(XXX)

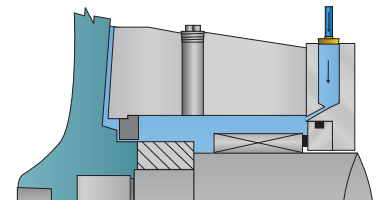
Notes

SpiralTrac operates over the impeller hub.

All part numbers in the chart above are applicable only to standard APP/APT pumps. For modified pumps please reach out to us with dimensions and application info.

Refer to enviroseal.ca to learn more about the different SpiralTrac Versions.

Please replace "XXX" with material ID for complete part # when ordering. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material or email us at support@enviroseal.ca



Standard Seal Configuration (no SpiralTrac)

SpiralTrac for Packing

Bearing Size	APP	APT
	SpiralTrac Part Number	SpiralTrac Part Number
1	PM04000PS06000(XXX)0L35.00	PI1625RS2375(XXX)0L1.340
2	PM05000RS07000(XXX)0L35.00	PI2000RS2750(XXX)0L1.340
3	PM06000RS08500(XXX)0L42.00	PI2375RS3375(XXX)0L1.670
4	PM07000RS09500(XXX)0L42.00	PI2750RS3750(XXX)0L1.670
5	PM09000RS12200(XXX)1L36.00	PI3500RS4750(XXX)1L1.415
6	PM10000RS13200(XXX)1L36.00	PI3937RS5197(XXX)1L1.415

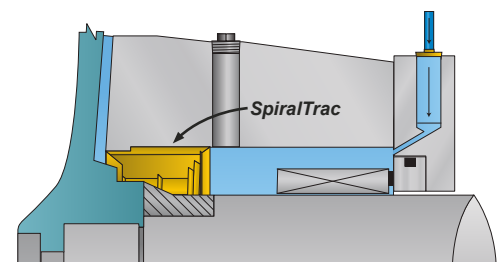
Notes

All SpiralTracs in the chart above are configured to allow for 2 rings of packing.

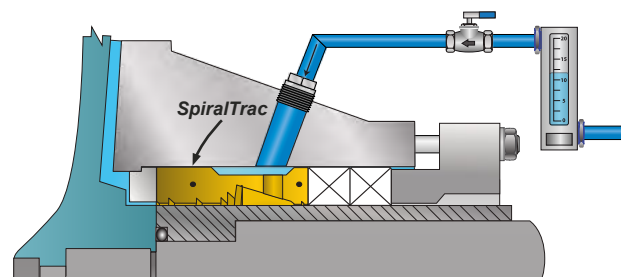
All SpiralTracs in the chart above are axially split designs, please reach out to us if a solid design is required.

Please replace "XXX" with material ID for complete part # when ordering. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material or email us at support@enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.



SpiralTrac operates over the impeller hub (seal version)



Packing Version SpiralTrac installed with two rings of packing, a check valve and a flow controller

For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca.

SpiralTrac™ for Sulzer

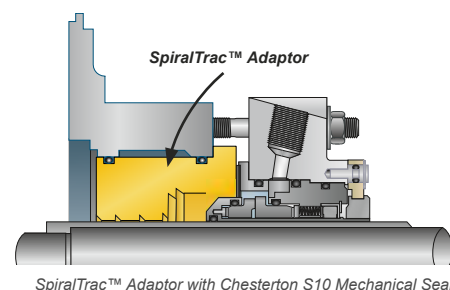
Scanpump®

Centrifugal Process Pumps

It's time to expect more of your Sulzer Scanpump Process Pump. Designed for commonly used Chesterton single and dual mechanical seals, the SpiralTrac Adaptor can create an optimal environment for your seal to run in, resulting in longer MTBF and more efficient operation.



Bearing Housing	Shaft Ø (mm)	Bore Ø (mm)	Adaptor for Chesterton Single Seals* 1510 • 1810 • 150 • 180 • 155 • S10		Adaptor for Chesterton Dual Seals*
			Single Spiral	Double Spiral	2810 • 280 • 250 • 255 • S20
1	38	95	AFN10-0758_XXX	AFN10-0765_XXX	AFN10-0779_XXX
1	40	95	AFN10-0759_XXX	AFN10-0766_XXX	AFN10-0780_XXX
2	48	105	AFN10-0760_XXX	AFN10-0767_XXX	AFN10-0781_XXX
2	50	105	AFN10-0761_XXX	AFN10-0768_XXX	AFN10-0782_XXX
3	65	130	AFN10-0762_XXX	AFN10-0769_XXX	AFN10-0783_XXX
4	75	140	AFN10-0763_XXX	AFN10-0770_XXX	AFN10-0784_XXX
5	100	170	AFN10-0764_XXX	AFN10-0771_XXX	AFN10-0785_XXX

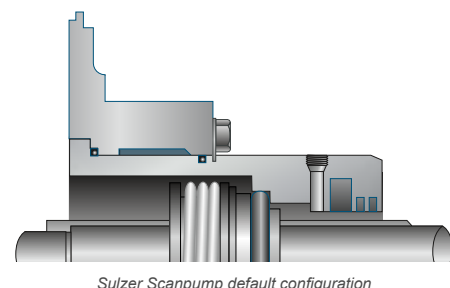


Notes

Please replace "XXX" with material ID for complete part # when ordering. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material.

*For mechanical seals not listed, please contact EnviroSeal.

For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca.



Find Your Scanpump's Bearing Housing Number

Bearing Housing / Pump Numbers						
1	2		3		4	5
NB32/25-20	NB50/32-26	NB125/80-25	NB100/65-32	BA200/100-40	BA200/200-40	NB300/250-53
NB40/32-20	NB65/40-26	NB125/100-20	NB125/80-32	BA200/150-40	BA250/250-40	BA300/250-53
NB50/32-16	NB65/40-32	BA150/80-26	NB125/100-26	BA200/200-32	BA300/300-40	BA350/350-45
NB50/32-16	NB80/50-26	BA150/80-32	NB125/100-32	BA250/250-32	BA350/350-40	BA400/400-45
NB65/40-20	NB80/50-32	BA150/150-26	NB125/100-40	FB100/100-32		BA400/400-56
NB65/50-16	NB100/65-20	FB50/50-20	NB150/125-26	FB150/150-32		BA500/500-56
NB80/50-20	NB100/65-26	FB50/50-26	NB150/125-32	FB150/150-38		
NB80/65-16	NB100/80-16	FB80/80-26	NB150/125-40	FB200/200-32		
FB32/25-20			NB200/150-26	FB200/200-38		
			NB200/150-40	FB250/250-40		
			BA150/150-32	FB300/300-38		

SpiralTrac™ for

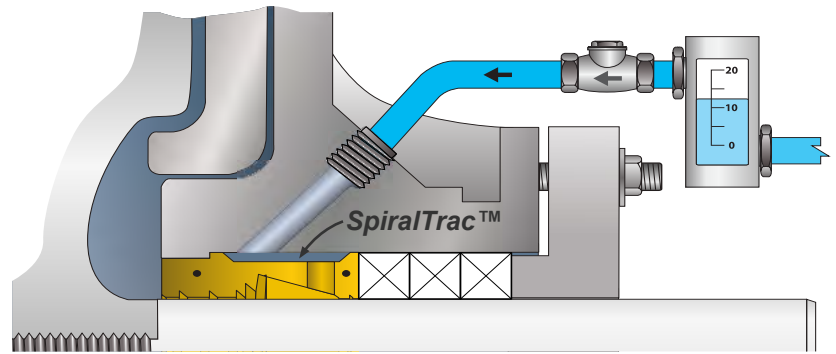
WARMAN®

Slurry Pumps

Packing Version SpiralTrac™ specifically designed to fit WEIR WARMAN® Slurry Pumps. Already proven and used in the toughest slurry applications on the Planet, SpiralTrac can significantly increase the life of your WARMAN Slurry Pump.



WARMAN pump size	SpiralTrac part #	Packing rings required
1 1/2 / 1 B-M	PI1785RS2435(XXX)24227	3
	PM04534RS06185(XXX)24227	3
2 / 1 1/2 B-AH	PM04534RS06185(XXX)24228	3
	PI2312RS3060(XXX)24229	3
3/2 C-AH	PM05872RS07772(XXX)24229	3
	PI2312RS3060(XXX)24230	3
4/3 C-AM	PM05872RS07772(XXX)24230	3
	PI3250RS4250(XXX)24231	3
4/3 D-AH	PM08255RS10795(XXX)24231	3
	PI3250RS4250(XXX)24232	3
6/4 D-AM	PM08255RS10795(XXX)24232	3
	PI3990RS5245(XXX)24233	3
6/4 E-AH	PM10135RS13322(XXX)24233	3
	PI3990RS5245(XXX)24234	3
8/6 E-AM	PM10135RS13322(XXX)24234	3
	PI5125RS6665(XXX)24235	3
8/6 F-AH	PM13018RS16929(XXX)24235	3
	PI3990RS5245(XXX)24236	3
8/6 E-M	PM10135RS13322(XXX)24236	3
	PI5125RS6665(XXX)24237	3
8/6 F-M	PM13018RS16929(XXX)24237	3
	PI3990RS5245(XXX)24238	3
12/10 E-M	PM10135RS13322(XXX)24238	3
	PI5125RS6665(XXX)24239	3
12/10 F-M	PM13018RS16929(XXX)24239	3
	PI2500RS3120(XXX)24240	3
13.5/1 C-HH	PI3250RS4250(XXX)24241	3
3/2 D-HH	PI3990RS5245(XXX)24242	3
4/3 E-HH	PI5125RS6665(XXX)24243	3
6/4 F-HH	PM17775RS22860(XXX)24244	4
10/8 G-AH	PM17775RS22860(XXX)24245	4

**Notes**

Please replace "XXX" with material ID for complete part # when ordering. For a full list of materials please visit www.enviroseal.ca/spiraltrac/material

All Spiraltracs listed in the chart are manufactured with a 1/8" (3.175mm) step. We have found that there is a variation in the throat widths, therefore the 1/8" width will work for all sizes.

SpiralTrac is axially split for ease of installation without pump disassembly. If solid device is required, please contact EnviroSeal.

The SpiralTrac part numbers typically do not fit pumps equipped with an expeller.

If you don't see your WARMAN pump size in the chart please reach out to us at support@enviroseal.ca

Find existing WARMAN successes in our literature section at enviroseal.ca

For the ultimate sealing solution, order as a **Chesterton SuperSet** with high quality Chesterton packing.

For ordering, please contact your local A.W. Chesterton representative or email support@enviroseal.ca



Material Options

SpiralTrac™ is manufactured in a variety of materials, aimed at your particular needs and process specifications. Systematic selection of the best material for a given application begins with the material properties. Mechanical, thermal, chemical and other properties.

Material	ENV ID	Max Temp	Application Information	Common use in Industry
Carbon Graphite PTFE <i>Shore D 63-66</i>	ESC	250 F / 121 °C	Engineered polymer used in a wide variety of applications.	Chemical, General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
Fortron PPS <i>Shore D 82-86</i>	MGE	500 F / 260 °C	High performance polymer suited for applications where intermittent shaft support is required.	Chemical, General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
Bearing Grade PEEK <i>Shore D 83-87</i>	BGE	500 F / 260 °C	High performance polymer designed for applications that require maximum shaft support.	Chemical, General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
Glass Filled PTFE <i>Shore D 59-63</i>	GLF	250 F / 121 °C	Engineered "white" polymer typically used in applications where process fluid is white.	Pulp and Paper
Poly-Urethane <i>Shore D 46-50</i>	STR	185 F / 85 °C	Excellent wear properties for slurry services.	Mining, Power, Steel, Wastewater
660 Bearing Grade Bronze <i>Brinell 65</i>	BRZ	n/a	Good wear properties. Material is non-sparking and absorbs moderate shaft deflection without damaging the shaft.	General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
316 Stainless Steel <i>Rockwell B 95</i>	316	n/a	Used in corrosive services.	Chemical, General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
416 Stainless Steel <i>Rockwell C 26.6</i>	416	n/a	Ideal for erosive services where chemical compatibility is not an issue.	Chemical, General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
17-4PH* Stainless Steel <i>Rockwell C 36</i>	174	n/a	Ultimate wear resistance for tough slurry services.	General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater

*can be heat treated (HT) to Rockwell C 38-45. Additional charges may apply. During the heat treating process, material discoloration occurs.

Many times, it comes down to the customer's choice as to what is required for material for the SpiralTrac. Product compatibility, cost, pump construction, and installation type are all to be considered when choosing what material is to be used. The above list is only a guideline for material selection and industry applicability.

Exotic materials are available upon request. Please email support@enviroseal.ca for any application that does not fall within the above guidelines, or if you have any other questions.



ESC



MGE



GLF



STR



BRZ



316



17-4PH HT

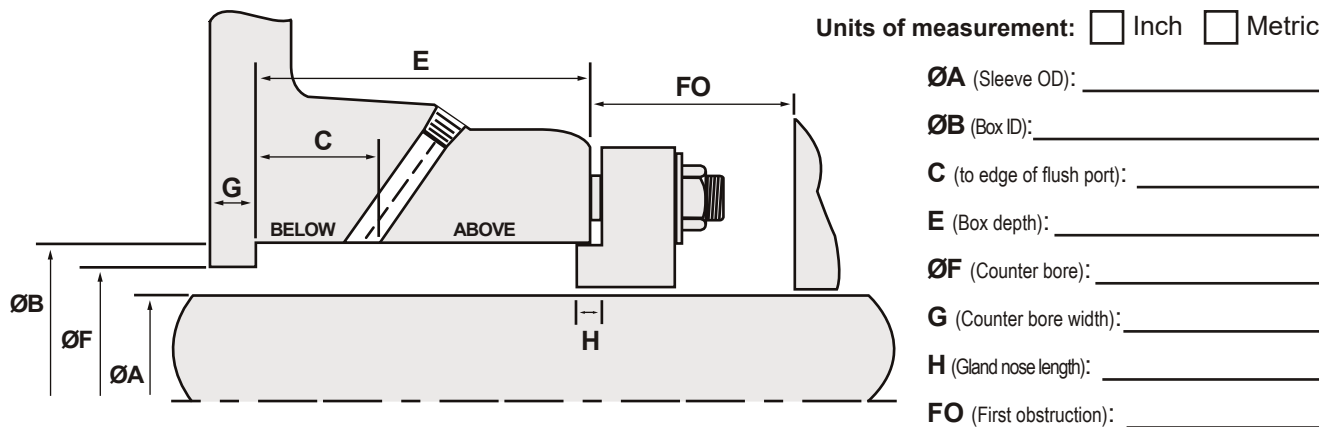
SpiralTrac™ Packing Version Quote Form

Configuration

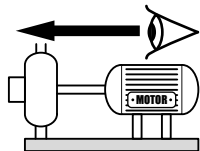
Note: For vertical turbines please refer to the *Vertical Turbine Quote Form*.

1. Sufficient flush pressure (1 Bar/15 psi above box pressure) is required to ensure a positive flow into the box.
2. EnviroSeal recommends flow controls when installing a Packing Version SpiralTrac.
3. Vertical applications are sized the same as horizontal.
4. Minimum axial length of Packing Version SpiralTrac is 1.000".
5. Packing Version SpiralTrac requires flush in positive flush flow, any other ports should be plugged.
6. EnviroSeal recommends high quality Chesterton® packing to sustain drip rate leakage.

Stuffing Box Measurements



Shaft rotation as viewed from the motor end:
(Double ended pumps require both R and L devices)



R CW **L** CCW

not shown on diagram

D (current lantern ring axial width): _____

BELOW (current rings of packing below lantern ring): _____

ABOVE (current rings of packing above lantern ring): _____

Split Solid

Material

- ESC** (Carbon filled PTFE)
- 316** Stainless Steel
- 416** Stainless Steel
- 17-4PH** Stainless Steel
- BRZ** (660 Bronze)
- Other:** _____

Extra Information

Equipment

Flush rate: _____

Make/Model: _____

Size: _____

RPM: _____

Product: _____

Solids %: _____

Notes: _____

Distributor

Company: _____

Specialist: _____

P.O.#: _____

Customer: _____

Temperature: _____



2456 Rocky Lake Drive
Waverley, Nova Scotia, Canada
B2R 1R6

enviroseal.ca
info@enviroseal.ca
+1 (902) 861-3464

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Patent Protected Worldwide. SpiralTrac is a trademark of EnviroSeal Engineering Products Ltd.

SpiralTrac™ Seal Version

Quote Form

Required Information

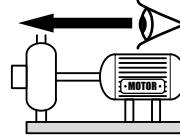
Note: For vertical turbines please refer to the *Vertical Turbine Quote Form*.

Mechanical seal being used: _____ Flush available: No Yes Flush Rate: _____

Units of measurement: Inch Metric

Shaft rotation as viewed from the motor end:
(Double ended pumps require both R and L devices)

Shaft size: _____
(or rotating element: sleeve, impeller hub, seal OD etc.)



R CW

L CCW

Bore size: _____ First obstruction: _____

Version

F (Flush required) **N** (Non fibrous applications) **D** (Fibrous applications) **C** (Chemical intermittent applications)

Installation Type

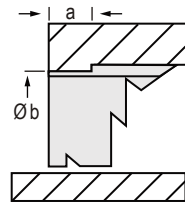
Type A

a width: _____

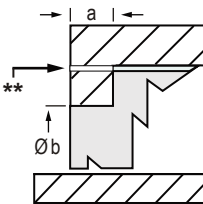
Øb diameter: _____

*option depends on throat diameter

Integral air vent option*

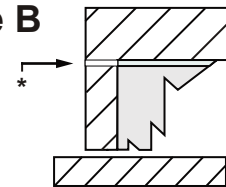


drilled air vent option*



**recommended 0.156" (3.96mm) vent hole to release air when flooding.

Type B



*recommended 0.156" (3.96mm) vent hole to release air when flooding.

Type E

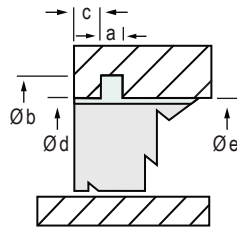
a width: _____

Øb diameter: _____

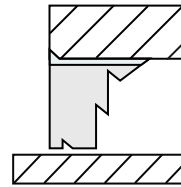
c width: _____

Ød diameter: _____

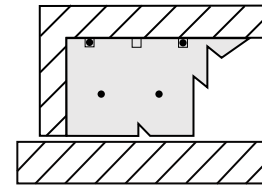
Øe diameter: _____



Type I



Type S



Material

- ESC** (Carbon filled PTFE)
- 316** Stainless Steel
- 416** Stainless Steel
- 17-4PH** Stainless Steel
- BRZ** (660 Bronze)
- Other:** _____

Extra Information

Equipment

Make/Model: _____

Size: _____

RPM: _____

Product: _____

Solids %: _____

Temperature: _____

Notes: _____

Distributor

Company: _____

Specialist: _____

P.O.#: _____

Customer: _____

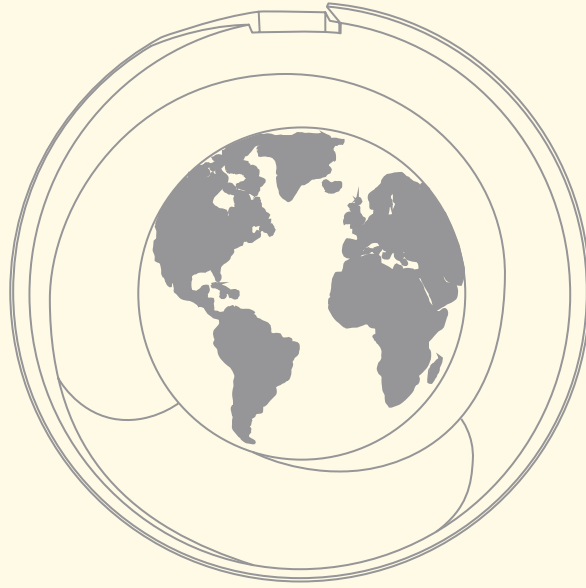


2456 Rocky Lake Drive
Waverley, Nova Scotia, Canada
B2R 1R6

enviroseal.ca
info@enviroseal.ca
+1 (902) 861-3464

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