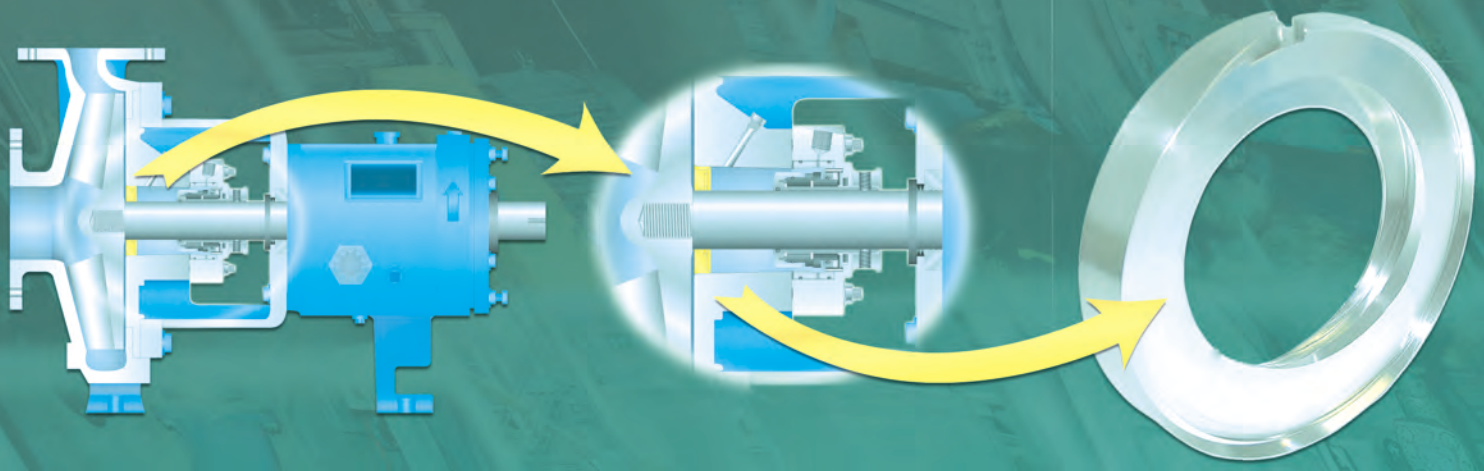
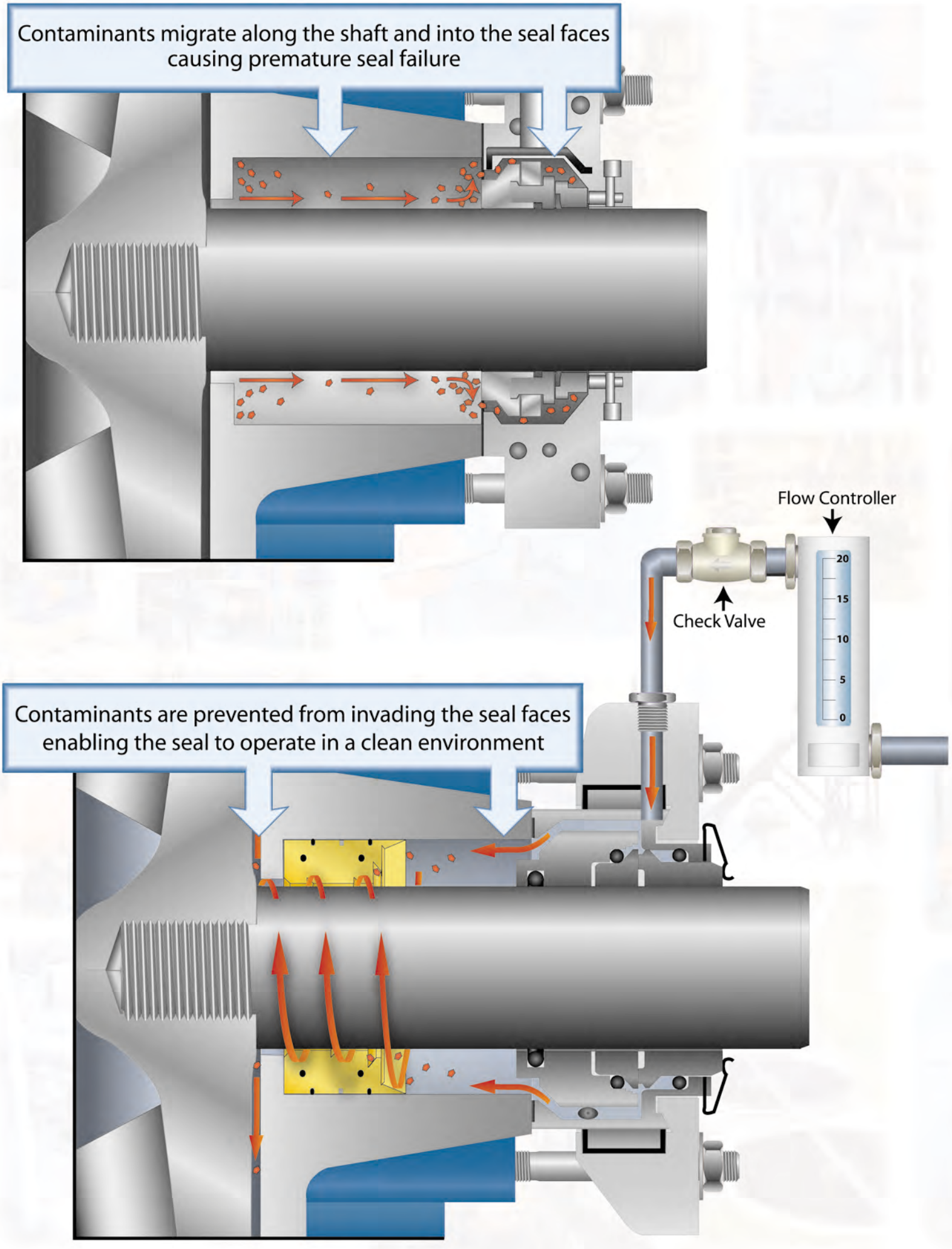
SpiralTrac™
Environmental Controller

SpiralTrac™ has set the standard worldwide!



- increased equipment reliability,
- decreased housekeeping cost
- reduced flush requirements.

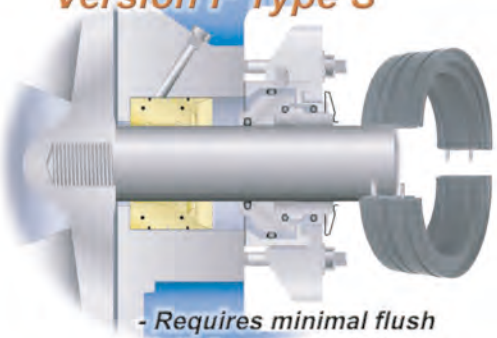
The SpiralTrac™ Environmental Controller is a unique, patented throat bushing specially engineered to transform and control the internal stuffing box environment in rotating process equipment.


Contaminants migrate along the shaft and into the seal faces causing premature seal failure
Flow Controller
Check Valve
20
15
10
5
0
Contaminants are prevented from invading the seal faces enabling the seal to operate in a clean environment

SpiralTrac™ Environmental Controllers

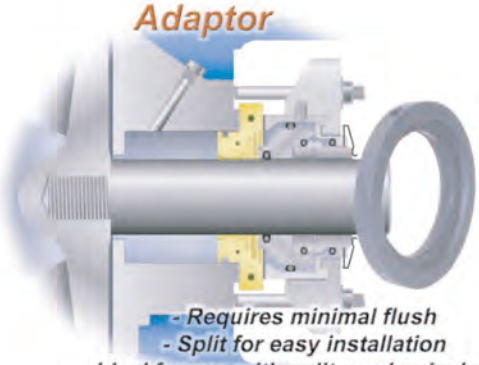
Have revolutionized the sealing environment in process pumps and rotating equipment.
Will greatly enhance seal reliability by driving seal cavity circulation and solids removal.
Can also reduce or eliminate the flush fluid required.

Version F Type S



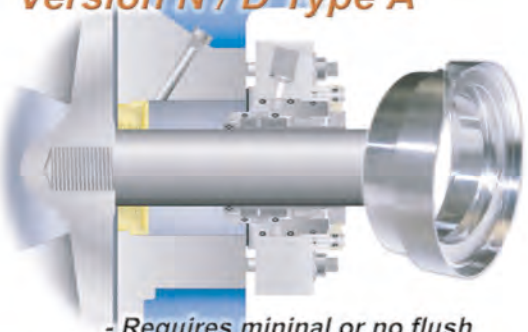
- Requires minimal flush
- Split for easy installation
- Ideal for use with split mechanical seals
- No modifications required to pump or seal cavity

Adaptor



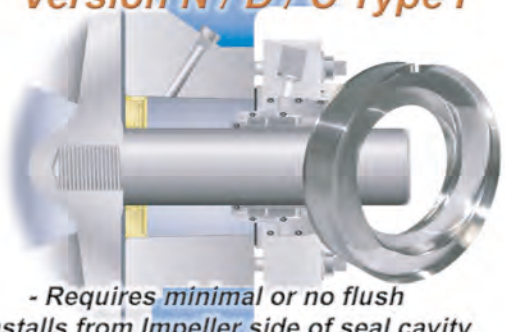
- Requires minimal flush
- Split for easy installation
- Ideal for use with split mechanical seals
- No modifications required to pump or seal cavity
- Installs between the seal cavity and the mechanical seal

Version N / D Type A



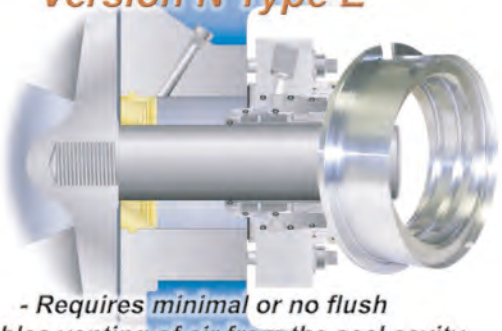
- Requires mininal or no flush
- Replaces removable throat bushings
- Some machining modifications may be required to pump or seal cavity depending on application

Version N / D / C Type I



- Requires minimal or no flush
- Installs from Impeller side of seal cavity
- Enables venting of air from the seal cavity
- Some machining modifications required to pump or seal cavity

Version N Type E



- Requires minimal or no flush
- Enables venting of air from the seal cavity
- Designed to replace keyed throat bushings in split case pumps
- No modifications required to pump or seal cavity

Version N Type B

- Requires minimal flush
- Enables venting of air from seal chamber
- Installs from the seal side of the seal cavity
- Greatly reduced flush in non fibrous applications

SpiralTrac™
Environmental Controller

SpiralTrac™ Environmental Controller

Engineered To Your Specifications!
Manufactured In A Variety Of Material Choices
Aimed At Your Particular Needs And Process Specifications.


BGE


ESC


660 BRZ


416


GLF


MGE


STR


316


17-4PH

How do you select the best material for your specific application and design? Systematic selection of the best material for a given application begins with the material properties. Mechanical, thermal, chemical and other properties.

ENV ID	Material	Max Temp	Application Information	Industry
GLF	Glass Filled PTFE (Shore D 59 - 63)	250 F / 121 C	Engineered "white" Polymer typically used in applications where process fluid is white.	Pulp and Paper
ESC	Carbon Graphite PTFE (Shore D 63 - 66)	250 F / 121 C	Engineered Polymer used in a wide variety of applications.	Chemical, Commercial Water, General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
MGE	Fortron PPS (Shore D 82 - 86)	500 F / 260 C	High Performance Polymer suited for applications where intermittent shaft support is required.	Chemical, Commercial Water, General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
BGE	Bearing Grade PEEK (Shore D 83 - 87)	500 F / 260 C	High Performance Polymer designed for applications that require maximum shaft support.	Chemical, Commercial Water, General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
STR	Poly-Urathane (Shore D 46 - 50)	185 F / 85 C	Excellent wear properties for slurry services.	Mining, Power, Steel, Wastewater
BRZ	Bronze (Brinell 262)	n/a	Good wear properties. Material is non-sparking and will absorb moderate shaft deflection without damaging the shaft	General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
316	316 Stainless Steel (Rockwell B 95)	n/a	Used in corrosive services.	Chemical, Commercial Water, General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
416	416 Stainless Steel (Rockwell C 26.6)	n/a	Ideal for erosive services where chemical compatability is not an issue.	Chemical, Commercial Water, General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater
174	17-4 Stainless Steel (Rockwell C 36)	n/a	Ultimate wear resistance for tough slurry services.	General Manufacturing, Mining, Power, Pulp & Paper, Steel, Wastewater

NOTE: Many times, it comes down to the customer's choice as to what is required for material for the SpiralTrac. The most common restrictions here would be material availability, machinability and cost. In the event that the customer is unsure of the material choice, then EnviroSeal can give guidance as to what standard materials are offered and what to use where. 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. Please consult EnviroSeal directly for any application that does not fall within the above guidelines.

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