



Active Seal™

ZERO LEAKAGE WITH MICRO-PUMPING GROOVES

- Unique patented design
- Ensures zero leakage
- Less downtime
- Lower maintenance costs
- Increased equipment lifetime



FLYGT

a xylem brand

Active Seal™ KEY FEATURES

Patented functionality

Unique zero-leakage solution from Xylem. Applied to the inner seal of a double-seal system, Active Seal functionality fully prevents liquid from entering the motor.

Active Seal in a double-seal system

1 Inner seal

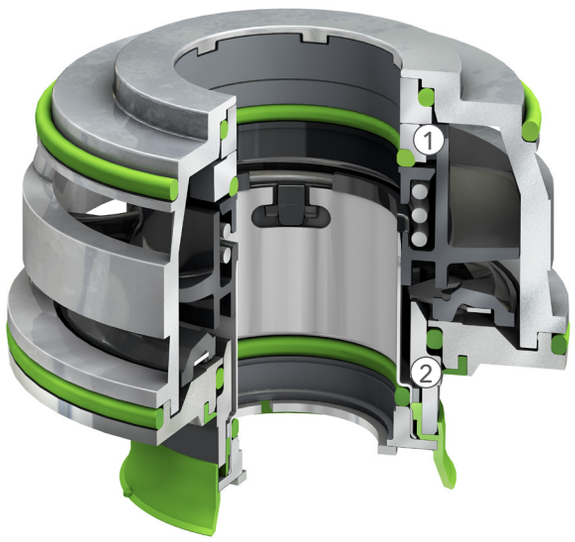
Active Seal spiral grooves are applied to the inner seal, making it act as a micro-pump. Rotation of these laser-cut grooves on the seal face continuously pumps liquid away from the motor cavity.

2 Outer seal

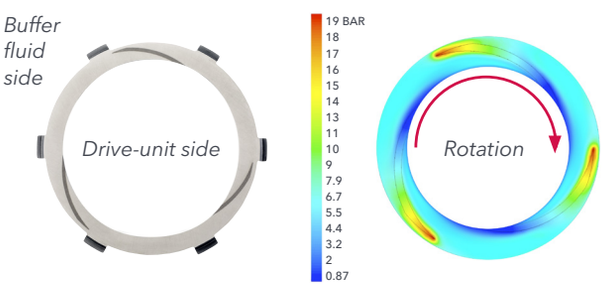
Prevents leakage of the pumped media into the buffer chamber.

Easy to upgrade

The new Plug-In Seals™ with the Active Seal system are completely interchangeable with previous generations of Plug-In Seals. The new inner seal with the Active Seal function is also interchangeable with old inner seals for many Flygt double seal systems with separate single seals.



Plug-in Seal with the Active Seal system.



Active Seal from Flygt enhances sealing reliability and minimizes downtime. The viscous shear of the fluid in the laser-cut grooves creates a hydrodynamic pumping effect that directs any liquid on the stator side back to the buffer-fluid side of the seal. By minimizing accumulated leakage into the stator housing and/or inspection chamber, Active Seal reduces the risk for bearing and stator failure. The technology is especially beneficial for products in continuous operation, where the demands on the seals' ability to prevent leakage are high. Active Seal functionality is available on a selected range of Flygt Plug-in Seals and double seal systems with separate single seals.

Flygt product range with Active Seal functionality

Flygt product range	Pump or mixer model											
2000 series	2135	2151	2201	2250	2290	2400	2630	2640	2650	2660	2670	
3000 series	3102	3126	3127	3140	3152	3153	3170	3171	3201	3202	3231	3240
	3300	3301	3306	3312	3315	3351	3356	3400	3501	3531	3602	3800
4000 series	4440	4610	4620	4630	4640	4650	4660	4670	4680			
5000 series	5100	5150	5520	5530	5540	5550	5560	5570				
7000 series	7045	7050	7055	7061	7065	7076	7081	7101	7105	7115	7121	7125

xylem
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