Seal Range for
FLYGT® & EMU®
WASTE-WATER
Submersible Pumps
Typical Flygt® Submersible
“The main application for these pumps is sewage pumping in pumping stations and treatment plants. But they also find wide use in other municipal applications, such as storm water pumping and irrigation. Additional areas of importance include industrial applications and manure handling in agriculture… Other application areas include raw-water handling, aquaculture, and irrigation.”

From Flygt® Web site
• Tandem Single-Seals Design

• Oil used as buffer fluid

• Inner seal sees only oil; faces are generally soft (e.g. Carb/SS)

• Lower seal sees product; faces are generally hard (e.g. TC/TC)
ITT - Flygt® Make a Range of Wastewater Submersible Pumps

Flygt® Pumps are of high quality. If maintained properly, they can achieve a lifetime of 10-20 years.

However, the mechanical seals can last less than they should. Arduous duties often mean frequent, costly replacement.
We consider O.E.M. Seals to be:

1. Expensive
2. Not Robust
3. Difficult to install
4. Low performance
Fluidol Style 9 Seal Features:

1. Quality Mechanical Seal Design
2. Solid stainless steel construction
3. One easy-installation approach
4. Superior design and performance seal product
5. At a lower cost price, especially operational cost
Style 9 Easy-Installation Approach

Three set screws

Removable clips set correct working length, No Fitting Tool Required
Some OEM’s can enjoy a monopoly on spare parts due to unusual design. Replacement seals are priced at a strong premium for a plastic-bodied spring seal.

Excessive seal prices force Repair Shops to attempt seal repairs, and some even have OEM seals custom-machined from scratch.
Build a Better Product at a Lower Price

e.g., All Style 9 metallic seal parts are manufactured in Stainless Steel

NO PLASTIC !!!
Fluidol’s Marketing Strategy is based on Outstanding Designs, Price and Service.

For this reason we:

- Stock Style 9 for all common Flygt® Pump Models.
- Do not require special installation tools.
- Use robust materials (no plastic).
Typical 20 mm Design (2XXX)

O.E.M.

Plastic

Garter Spring / Ball Drive

Fluidol

Stainless Steel

Set Screw Drive
Another 20 mm Design (3XXX)

O.E.M.

- TC Face Insert
- Plastic
- Rust on Mild Steel
- Clip Requires Special Tool

Fluidol

- Stainless Steel
- Set Screws
- TC Face monolithic

Clip Requires Special Tool
Typical 35mm Design

**O.E.M.**
- Special Tool Required
- TC face in Steel
- Plastic

**Fluidol**
- Only Special Tool Required
- Solid TC Face
- Solid Stainless Steel
O.E.M.
INSTALLATION TOOL

Different tool needed for every seal size!

Costs $75 - $250 each!
Typical 45 mm Design

O.E.M.
- Garter Spring/Ball Drive
- Plastic

Fluidol
- Stainless Steel
- Set Screw Drive
Typical 45 mm Designs

- **O.E.M.**
  - Pressed-Steel Holder
  - Slot Drive

- **Fluidol**
  - Machined SS Holder
  - Pin Drive

- **Brazed Face**

- **Monolithic Face**
Typical 60mm Design

- Bonded TC
- Pressed Steel
- Garter Spring Ball Drive

O.E.M.
- Stationary
- Rotary (Face)
- Rotary (Back)

Fluidol
- Monolithic TC
- Solid SS
- Set-Screw Drive
Style 9 ONE DESIGN CONCEPT

Fluidol

O.E.M.

Just one seal replaces four
Recovering the mechanical seal

Instructions valid until 2010

Note: O.E.M. Installation Instructions call for installing the seat WITH EPOXY GLUE!
The Primary Application for Flygt® Submersible Pumps is for moving Wastewater (Sewage).
A Typical City of \( \frac{1}{4} \) to \( \frac{1}{2} \) Million People Has 500 - 1,000 Lift Stations in its Sewage Collection System, each with a Submersible Pump. 

Flygt® are the market leaders world-wide.
• Sewage Handling: Municipalities
• Industrial Wastewater (Plants, Mines, etc)
• Stormwater and Irrigation
• Agriculture (manure pumping)
• Hospitals & Prisons
• Pump Rebuilders
• Motor Rewinders
SUMMARY OF Fluidol Style 9

Features...

CUSTOMER BENEFITS

• Superior Designs and Materials
  • INCREASED SEAL CAPABILITY, PERFORMANCE AND LIFE!
• Lower Price and ex-stock
  • SAVES MONEY!
  • REDUCED SEAL FAILURE
  • GREATLY INCREASED MAINTENANCE
  • CONTRACT PROFITABILITY
• Easier Installation...
  • FASTER! NO SPECIAL TOOLS!
Another Sales Opportunity,

Fluidol Seals for EMU® Pumps

Competitor to the Flygt® pump, similar applications

Complete seal collet assembly or seal kit
In stock for 35mm, 50mm, and 75 mm
FINISH
END