

## **THE SEG RANGE:**

BUILT TOUGH AND VERSATILE FOR YOUR NEEDS

Grinder pumps for municipal, commercial and domestic sewage transfer



# THE PERFECT PUMP FOR SEWAGE AND EFFLUENT TRANSFER

**Designed for dependability, efficiency and cost-effectiveness**

The SEG range of grinder pumps from Grundfos is specifically designed for pumping effluent and untreated sewage in small communities or sparsely populated areas with no sewer systems or where gravitation systems are unsuitable.

Pressurized systems are the perfect choice for transfer of effluent and domestic sewage, and the SEG range combines cost-effectiveness with maximum protection for the environment by facilitating the use of smaller pressure pipes for minimal investment costs.

The SEG range is designed to reduce energy consumption and to keep downtime costs to a minimum, while maintaining peak performance throughout the lifetime of the system.



## PRESSURISED SEWAGE TRANSFER

**Ideal for sparsely populated areas where gravity sewage systems are not available**

The SEG range can be installed on two different types of auto-coupling systems. Alternatively, the SEG range is available as freestanding pumps.

- The SEG pumps are designed for use in:
- Small towns

- Farm areas and areas of difficult topography, such as rocky terrains
- Commercial Building Services
- Municipalities
- Areas with high groundwater
- Industry



*SEG pumps can be used for alternating or continuous operation throughout the water cycle. See examples on [watercycle.grundfos.com](http://watercycle.grundfos.com).*



*Installation options include submerged installation on auto-coupling with guide rails.*

# SEG PUMP FEATURES

– and what they do for you



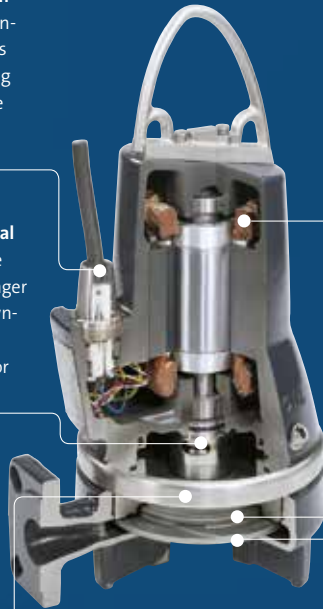
**Watertight cable connection**  
The polyurethane-filled stainless steel cable connection is hermetically sealed, ensuring that liquid cannot penetrate through the cable into the motor.



**Double mechanical shaft seal**  
Efficient single-unit cartridge shaft seal system ensures longer operation time with less downtime and is easy to replace in the field, without the need for special tools.



**Stainless steel clamp**  
Unique clamp assembly system for quick and easy disassembly of pump from motor unit, where no tools are required.



**Motor protection**  
Built-in thermal switches in the motor windings provide protection against overheating, and this ensures a long lifetime.



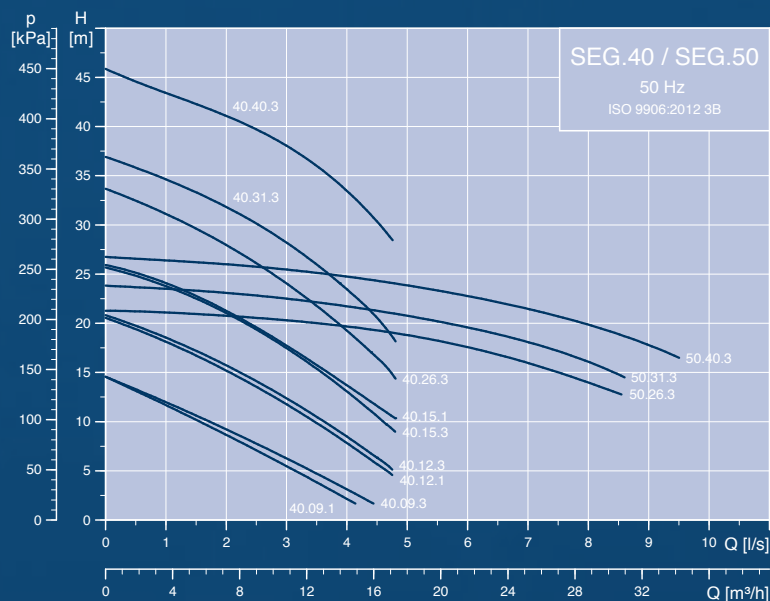
**Efficient grinder system**  
Patented grinder system ensures extremely high efficiency and reliable operation with quick and easy dismantling for replacement of wear parts. No special tools are required.



**SmartTrim impeller adjustment**  
Patented SmartTrim system enables quick and easy impeller clearance adjustment in order to maintain peak performance and this can be done without dismantling the pump. No special tools are required.



## Performance overview



**The Grundfos patented SEG grinder system has many advantages:**

- easy service
- reliable grinding
- efficient grinding of solids down to even smaller pieces
- only one screw for the stationary grinder
- only one additional screw for the rotary grinder



The entire range is also available in explosion-proof versions. All explosion-proof versions of SEG pumps with motors from 0.9 kW up to 4 kW are provided with a CE 0344 II 2 G Ex d IIB T4 explosion-protection classification according to EN60079-0:2006 and EN60079-1:2007.

The pumps are also available for Australia/New Zealand with an Ex nC II T3 classification in accordance with IEC 60079-15:1987 (corresponding to AS 2380.9).



For further information go to  
[www.grundfos.com](http://www.grundfos.com)

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