

GEA VARIPUMP



GEA Hilge SIPLA-HT

Self-Priming Side Channel Pumps
for Sterile Processes

Optimize your cleaning processes

With the continuous Qualified Hygienic Design (QHD) and use of pore- and blowhole-free materials, pumps from the GEA Hilge SIPLA-HT range are used in the food and beverage as well as in the pharmaceutical, biotech and personal care industries.

These self-priming pumps offer a long operating life even under the harshest operating conditions, e.g. pumping media with a high gas content, or in CIP return systems. The SIPLA-HT can be optionally equipped with an integrated frequency converter for speed control.

Specialized Applications

The GEA Hilge SIPLA-HT pump range is specifically designed for the following applications:

- Pharmaceutical industry & biotechnology (WFI)
- Cleaning systems (CIP-return)
- Beverage and food technology

Robust and Reliable

The pumps of the GEA Hilge SIPLA-HT range are characterized by their particularly robust properties. This pump, completely made from pore- and blowhole-free Cr-Ni-Mo-steel (316L), is another indication that GEA puts quality and efficiency first.

Unique Pump Construction with Good Self-priming Performance

The pumps in the GEA Hilge SIPLA-HT series are self-priming side-channel pumps. The horizontal arrangement of the suction and pressure ports at the front of the pump housing ensures that GEA Hilge SIPLA-HT-pumps always remain liquid filled in operation.

For applications in the pharmaceutical area, the pumps can be equipped with a drain or a drain valve.

Certificates and Documentation

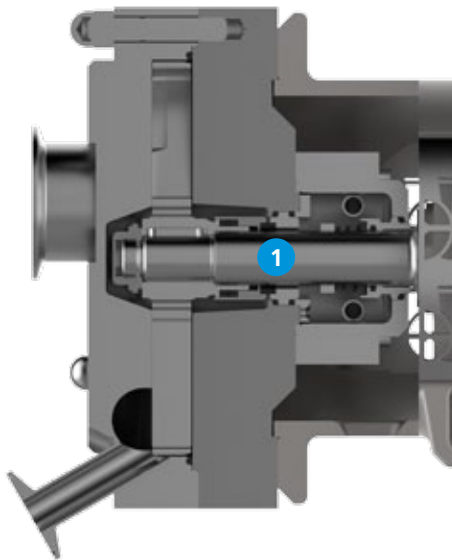
GEA Hilge supplies the following certificates

- Inspection certificate 3.1 acc. to EN 10204
- Test report 2.2 acc. to EN 10204
- FDA & USP Class VI certificate
- Surface roughness test report
- Certificate in acc. with regulation (EG) No. 1935/2004
- Delta ferrite test report

Additional tests and certificates on request.



FEATURES AND BENEFITS



Robust High-precision Construction

Optimized hydraulic design for better efficiency

High-quality Materials

For high reliability in operation

Sealing Options (1)

For effective cleaning, cooling and lubrication

- Single mechanical seals in sterile design

For effective and process-safe sealing of the pumped liquid

- Double mechanical seals
 - In tandem arrangement for pressure-less flushing
 - In tandem arrangement pressurized

Star-impeller (2)

For reliable and efficient handling of pumped media with a high gas content

Production Standard

Pump housing, front cover and impeller are made of stainless steel 1.4404 or 1.4435 (316L).

The wet end components are made with a surface roughness of $R_a \leq 0.8 \mu\text{m}$. No casted material is used for wet end parts. The pump shaft (not product-contacting) is made of stainless steel 1.4462.

Mechanical Seals

Thanks to a wide variety of single oder double mechanical seals, various media and applications can be served. The seals are optimally arranged in the pump housing, which ensures effective cleaning, cooling and lubrication.

- Mechanical seals with the standard material SiC/SiC
- Standard material of the O-ring seals: EPDM or Viton
- Additional shaft seal arrangements or materials are available on request

Flexible Solutions

The GEA Hilge SIPLA-HT portfolio comprises a multitude of pump solutions. This range of self-priming hygienic pumps offers a choice of various versions that meet your specific requirements:

- GEA Hilge SIPLA-HT Adapta
- GEA Hilge SIPLA-HT Adapta Super
- GEA Hilge SIPLA-HT Adapta tronic

Further Options

- Ferrite content $\leq 1 \%$
- Surface roughness $R_a \leq 0.4 \mu\text{m}$
- All common sterile connections to DIN, ISO or ASME and customer-specific versions can be provided

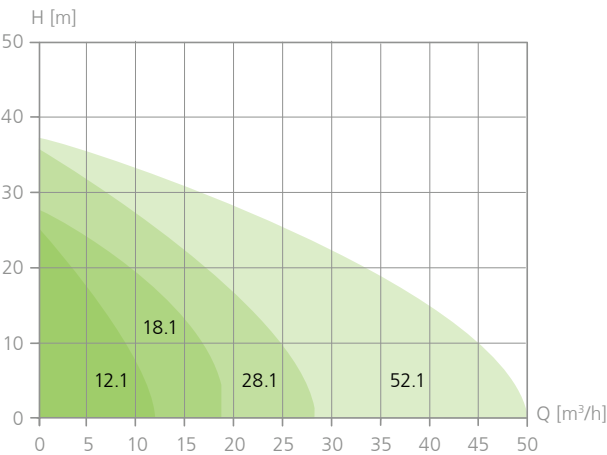
DESIGN VARIANTS – GEA HILGE SIPLA-HT

Standard variants	Description
GEA Hilge SIPLA-HT Adapta	Close-coupled pump with supported pump shaft and standard motor
GEA Hilge SIPLA-HT Adapta Super	Close-coupled pump with supported pump shaft, standard motor and stainless steel cover
Variations upon request	Description
GEA Hilge SIPLA-HT Adapta tronic	Close-coupled pump with supported pump shaft and motor with integrated frequency converter (up to 15kW)

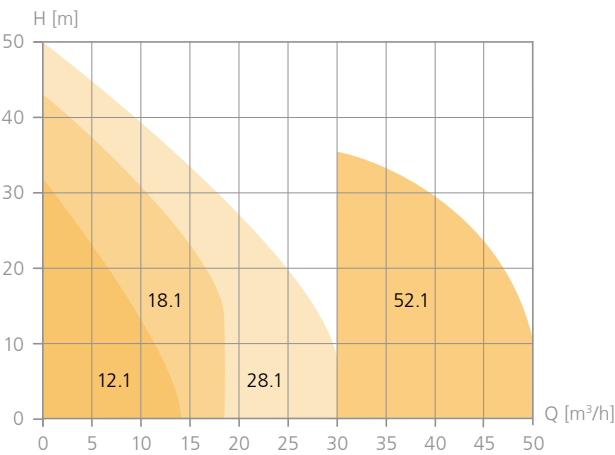
TECHNICAL DATA

GEA Hilge SIPLA-HT	50 Hz	60 Hz
Flow	up to max. 50 m³/h	up to max. 50 m³/h
Head	up to max. 37 m	up to max. 50 m
Operating temperature	up to 95 °C	
Sterilization temperature	up to 135 °C	
Operating pressure	10 bar	

PERFORMANCE CURVE 4-POLES, 50 HZ



PERFORMANCE CURVE 4-POLES, 60 HZ



We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA is a global technology company with multi-billion euro sales operations in more than 50 countries. Founded in 1881 the company is one of the largest providers of innovative equipment and process technology. GEA is listed in the STOXX® Europe 600 Index. In addition, the company is included in selected MSCI Global Sustainability Indexes.

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