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НАСОСЫ HILGE TP Технические характеристики



Sustainable and Economical Application under Hygienic Conditions

The energy-efficient and hygienic GEA Hilge TP centrifugal pumps in the GEA SMARTPUMP line are available in a variety of model sizes, optimally configured for different applications.

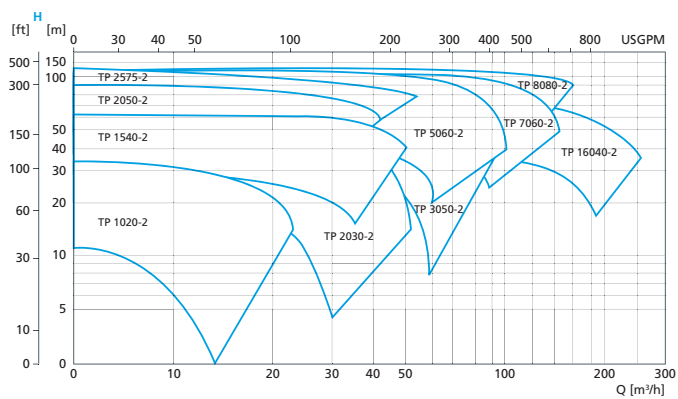
The centrifugal pump GEA Hilge TP is designed for the hygienic pumping of biologically demanding media. Low flow velocities and gentle discharge of media through the spiral housing enables extremely gentle product handling. 11 different pump types are available covering a capacity range up to 210 m³/h and flow heads up to approx. 90 m w.c., fine tuned for each task.

The spiral housing for the GEA Hilge TP series is made of cold-rolled steel. This material has an excellent surface quality, which is essential for optimum cleaning in CIP/SIP processes. The GEA Hilge TP pump series is EHEDG certified. Typical wall thicknesses of 8 mm (TP 1020 6 mm) provide high strength.

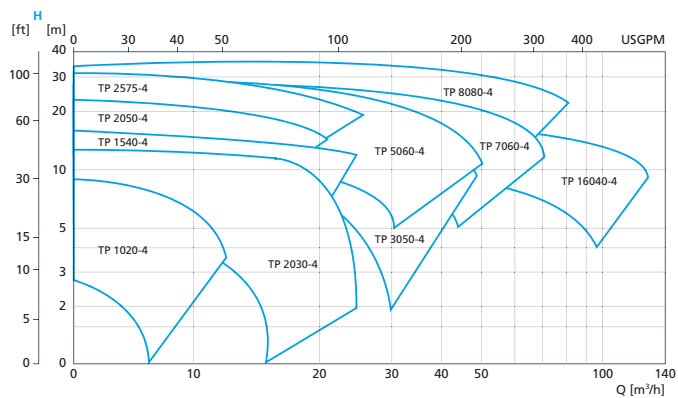
TECHNICAL DATA

GEA Hilge TP	60
Flow	1057 gpm
Head	427 ft (130 m)
Media temperature	284°F (140°C)
Operating pressure	232 psi (bar)

GEA ILGE P PERFORMANCE CURVE, 0 Hz
2-POLE, 3500 RPM



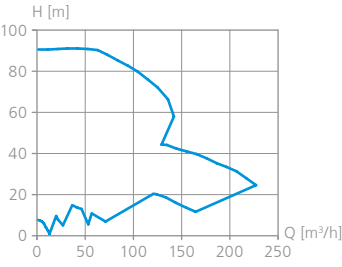
GEA ILGE P PERFORMANCE CURVE, 0 Hz
4-POLE, 750 RPM



TECHNICAL DATA

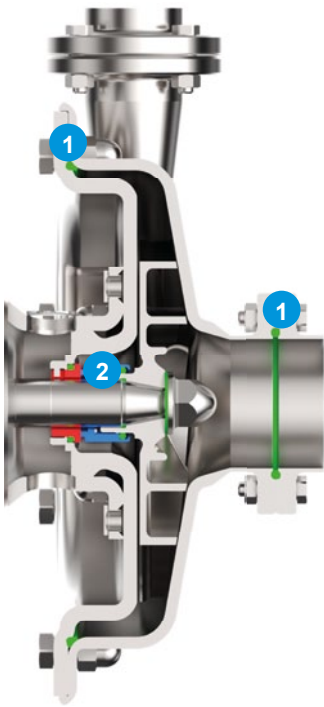
GEA Hilge TP	50 Hz	60 Hz
Flow	220 m³/h	240 m³/h
Head	90 m	130 m
Media temperature	140°C	
Operating pressure	16 bar	

PERFORMANCE CURVE
50 HZ





FEATURES AND BENEFITS



- 1 Gapless sealing
- 2 Sterile mechanical seal

Applications

The GEA Hilge TP series has been designed for a variety of applications within:

Breweries

- Beer
- Wort
- Yeast
- Water
- CIP Solutions

Dairy

- Milk
- Cream
- Yoghurt
- Whey
- Brine
- CIP Solutions

Cosmetic

- Extracts
- Emulsions
- Distillates

Application Options GEA Hilge TP

- | | | |
|---------------------|-----------------|---------------|
| • Conveying | • Filling lines | • Filtration |
| • Circulation | • Filling | • Evaporation |
| • Pressure boosting | • Emptying | • Cleaning |

Technical Benefits

- Operating pressure max. 6 bar
- Low NPSH value avoids early cavitation to the pump
- Energy-efficient operation thanks to optimized speed control and/or impeller trimming

Constructive Characteristics

- Open impeller design optimized for gentle product handling
- All parts stainless steel, wetted components made of 316L or 316L (AISI 316L)
- Surface roughnesses of $R_a \leq 0,8 \mu m$ can be achieved by mechanical treatment of the surface (higher surface qualities on request)
- High efficiency motors

Special Characteristics

- Gentle product handling
- Low wear part stock requirement thanks to modular concept
- Acceptance test certification ISO 9001 (optional)
- EHEDG certified
- Sealings comply to FDA and USP Class VI

Mechanical seal optimized for hygienic applications

- Mechanical seal unit can be removed from the front
- Flushing unit easy to retrofit
- Pump shaft protected by wear sleeve
- Only two mechanical seal sizes for the entire pump series
- Seal face material options: carbon/silicon carbide (standard), silicon carbide/silicon carbide
- Various elastomers with FDA approval (EPDM, FKM)

Sealing of GEA Hilge TP centrifugal pumps according to EHEDG standards

The elastomer sealing is executed according to EHEDG standards. The special groove enables the seal is kept reliably in place at all times. The shape of the groove is based on FEM analyses. The metallic stop allows a defined compression of the seal, ensuring gap-free sealing against the product chamber without dead corners.

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