



SIHI^{LPH-X} - Liquid Ring Vacuum Pumps



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STERLING FLUID SYSTEMS GROUP
www.sterlingsihi.com

Cost Effective Performance

For over 80 years Sterling SIHI has maintained its position as a leading supplier of innovative technologies in liquid ring vacuum pumps and liquid ring compressors. The comprehensive Sterling SIHI range of liquid ring vacuum pumps is available in single and two stage designs, with suction capacities up to 12000 m³/h and suction pressures in the range 33 to 1013 mbar. In addition, above atmospheric pressure these pumps can be used as compressors. The latest addition to this is the **SIHI^{LPH-X}** range, which is available in one and two stage variants and able to operate at 50Hz and 60Hz. It has been designed for interchangeability with the well established LPHA range and offers the lowest cost of ownership.

PERFORMANCE RANGE		
Type	Suction Pressure	Suction Volume Flow
SIHI^{LPH-X} single stage	120 to 1013 mbar	50 to 850 m ³ /h
SIHI^{LPH-X} two stage	33 to 1013 mbar	44 to 800 m ³ /h

INDUSTRIES/MARKETS

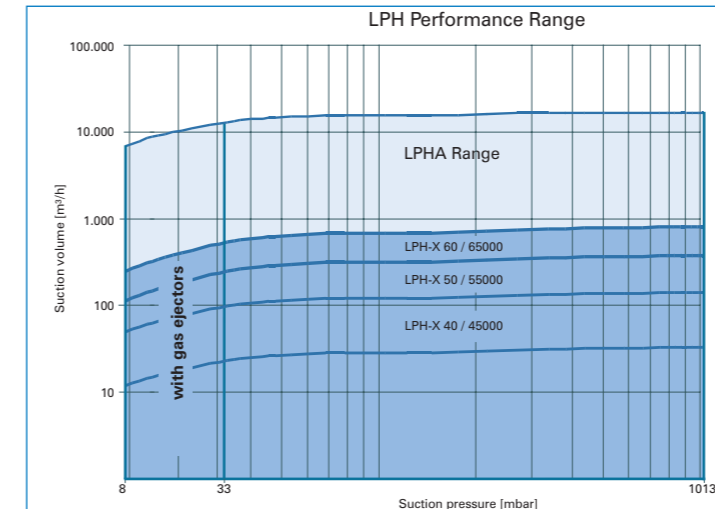
- Chemical
- Pharmaceutical
- Plastics Processing
- Food Industry
- Beverage Production
- Ceramic Manufacture
- Medical Technology
- Textile Processing
- Specialist paper
- Print Manufacture
- Electronics Industry
- and many more

TYPICAL APPLICATIONS

- Distillation
- Drying
- Degassing
- Filtration
- Desodorisation
- Deoxygenation
- Sterilisation
- Filling
- Product Transfer
- Vapour Recovery
- Priming
- Central Vacuum Systems



The Proven Vacuum Solution



Note: For further information on this product range contact your local sales office or visit www.sterlingfluidsystems.com

The modular **SIHI^{LPH-X}** is offered in one and two stage designs in a range of different sizes and materials to meet most vacuum requirements. In addition to offering the usual benefits of liquid ring vacuum pumps such as near isothermal compression, oil free vacuum, low noise and application flexibility, the **SIHI^{LPH-X}** offers the following features and benefits:-

FEATURES

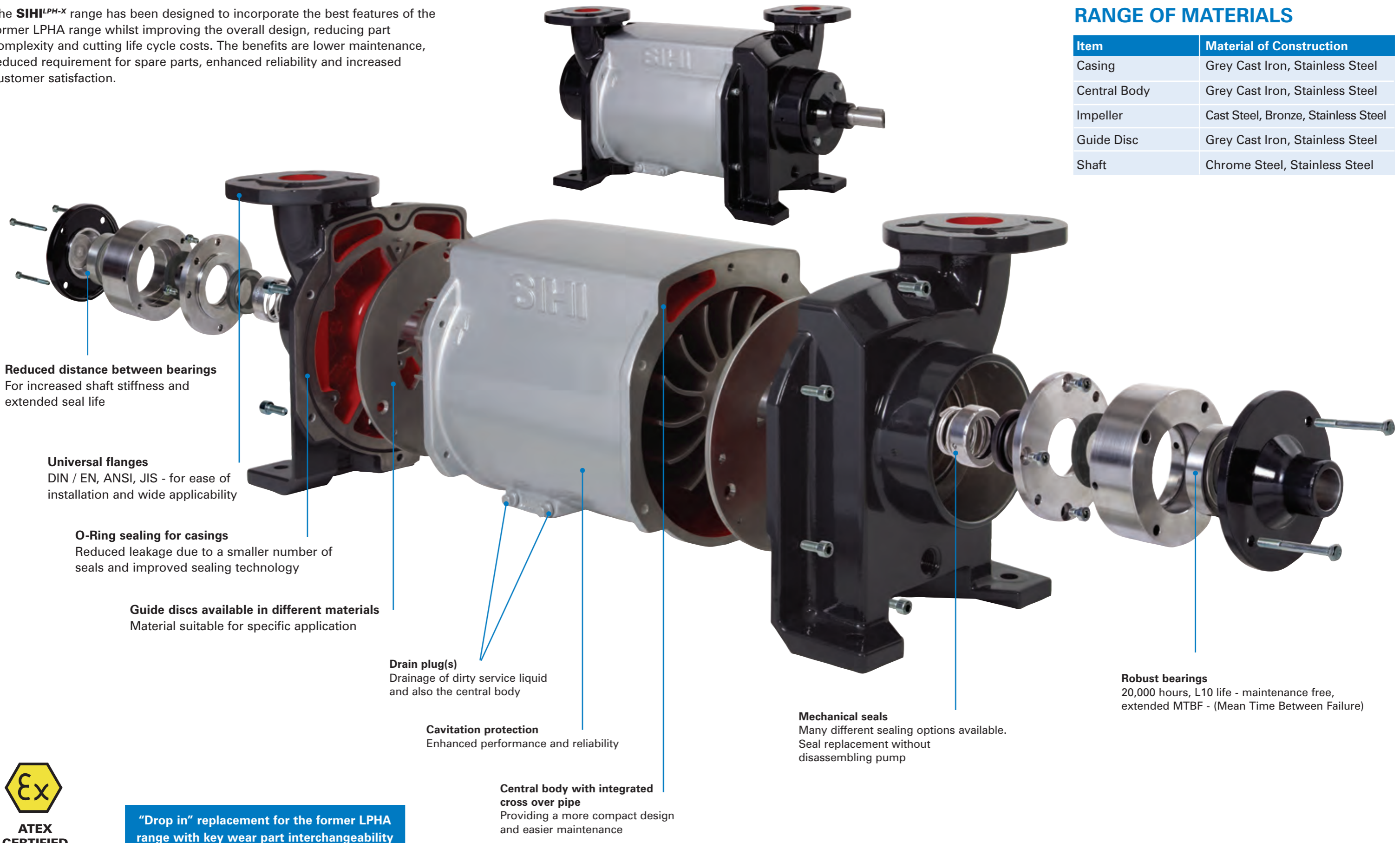
- Interchangeable with previous LPH-Range
- Complies with ATEX legislation
- Single and two stage
- Modular construction
- Compact design
- Fewer components
- Extensive range of sizes, materials and und Wellendichtungen
- Seal accessibility
- Engineered systems

BENEFITS

- ✓ "Drop in" replacement with key parts interchangeability
- ✓ certified for Category 1 and Category 2
- ✓ Enhanced performance range
- ✓ Ease of maintenance and low inventories of spare parts
- ✓ Space saving
- ✓ Short lead times and fast deliveries
- ✓ Ensures optimal solution for the application
- ✓ Ease of maintenance
- ✓ Complete solution

SIHI^{LPH-X} ...The Vacuum Pump Range With Lower Cost of Ownership

The **SIHI**LPH-X range has been designed to incorporate the best features of the former LPHA range whilst improving the overall design, reducing part complexity and cutting life cycle costs. The benefits are lower maintenance, reduced requirement for spare parts, enhanced reliability and increased customer satisfaction.



RANGE OF MATERIALS

Item	Material of Construction
Casing	Grey Cast Iron, Stainless Steel
Central Body	Grey Cast Iron, Stainless Steel
Impeller	Cast Steel, Bronze, Stainless Steel
Guide Disc	Grey Cast Iron, Stainless Steel
Shaft	Chrome Steel, Stainless Steel



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"Drop in" replacement for the former LPHA range with key wear part interchangeability



LPH-X with single acting mechanical seal



LPH-X with double acting mechanical seal



LPH-X with magnetic coupling

Benefits

- Electronic order processing to accelerate transactions
- RAPID web software available to facilitate pump selection by the customer
- Available in 50Hz & 60Hz versions
- ATEX compliance
- Modular design to minimise spares inventory
- Compact design for maximum space saving
- "Drop in" replacement for former LPHA range with key wear part interchangeability
- Investment in "state of the art" manufacturing for highest quality product
- Value engineered for cost effectiveness and maximum reliability
- Global, regional and local sales and service network
- Vacuum engineering expertise allied with a full understanding of customer needs

End users

- Suitable for many applications
- In-depth experience of vacuum applications
- Emphasis on lowest cost of ownership
- Universal flanges for ease of installation for wide applicability
- Available from bare shaft pump through to engineered systems

OEM Business

- Strong OEM customer base
- OEM feedback has been key in the development of the range
- Value engineered for cost effectiveness
- "Drop in" replacement ensures no OEM drawing modifications
- Intelligent logistics for short lead times and on time delivery
- Open to joint product development where product volumes justify investment

Replacement Business

- Identical performance with the LPHA range
- Pump fully interchangeable with the previous LPHA pump range, through a common footprint and identical inlet and outlet locations
- Reduced internal complexity, leading to lower inventory of spare parts
- Modular construction - ease of maintenance
- Key benefits of the LPHA range incorporated in the LPH-X design to enhance reliability



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