

Flowserve SIHI® Vacuum Pump Product Portfolio



Advanced vacuum and compression solutions that run up to 50% faster

Flowserve SIHI vacuum and compression solutions significantly enhance productivity and efficiency across a wide variety of applications. By reducing load lock cycle times by up to 50%, the SIHI product range enables faster operations for coaters while optimizing energy consumption in processes like sterilization.

More than a century of process expertise

With a history of innovation dating back to 1920, SIHI is one of the world's leading brands of liquid and vacuum pumps, compressors and engineered systems, trusted by all segments of the process industry. The SIHI brand's chemical, industrial, energy and environmental divisions combine extensive application knowledge with respected and established product lines.

Proven solutions help you operate with confidence

SIHI solutions prioritize uncompromising reliability and efficiency while ensuring compliance with industry standards. Whether you need to process chemicals, create vacuum, generate energy, recover volatile organic compound (VOC) emissions, or simply investigate lifecycle cost (LCC) reduction, the SIHI team has a reliable solution.

In addition, SIHI field and aftermarket service fully supports you for the lifetime of your application.

Precision-engineered systems, tailored to your specifications

From individual vacuum pumps to complete engineering solutions, Flowserve offers a robust and comprehensive range that includes liquid ring pumps, compressors and dry vacuum systems.

Pre-engineered modular systems can help your operation get up and running quickly with the flexibility to expand at your own pace. Custom designs are also available.

Ideal for:

- Pharmaceuticals
- Semiconductor manufacturing
- Food and beverage
- Chemical processing
- Machinery manufacturing
- Heavy machinery applications
- Energy generation
- Municipal water
- General industry and more

Sections

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SIHI Dry screw vacuum pumps

A completely dry-running vertical twin-screw machine with no mechanical shaft seals. Designed for chemical, pharmaceutical and industrial applications requiring uncontaminated vacuum, free from oil or service liquids.

All pumps and systems are modular and can be combined in several different executions.

Dry screw working principle

SIHI Dry technology is a dry running, twin screw vacuum principle delivering deep vacuum performance with high reliability and efficiency. Operating without sealing or lubricating fluids, it eliminates oil contamination, fluid handling and disposal, enabling clean, stable processes. Each rotor is driven by an individual variable-frequency motor and electronically synchronized, removing gearboxes and mechanical contact while allowing larger clearances for improved tolerance to liquid and particulate carryover. A vertical, top-down flow path uses gravity to manage carryover in a compact, self-draining design. Integrated monitoring of torque, temperature and speed enables continuous diagnostics and automatic adaptation, resulting in fast pump-down, quiet operation, energy-efficient control and zero scheduled maintenance.

Operational benefits

- **Seal-less:** No mechanical shaft seals means reliable operation without process vapor emission risks.
- **Highly reliable operation:** No gearbox and balanced twin-screw geometry permit a smooth, quiet, oil-free, clean and maintenance-free environment.
- **Improved uptime:** IoT-ready diagnosis is available to plug-and-play with most DCS systems.

- **High tolerance to carryover:** Internal speed overload protection is coupled to wide clearances in which to safeguard against the deposition which results from dried process liquid ingress.



SIHI Dry



GD S

Single-stage, dry-screw vacuum pump

Model	Capacity	Typical Process Pressure	Final Pressure	Power Consumption Max. @ 400/460 VAC ~3	Power Consumption Final Pressure @ 400/460 VAC ~3
GD S450	450 m³/h @ 1 mbar (a) and 20°C	0.1 to 100 mbar (a)	< 0.005 mbar (a)	12/12 kW	< 4/4 kW
GD S451	400 m³/h @ 10 mbar (a) and 20°C	1 to 100 mbar (a)	< 0.5 mbar (a)		< 6/6 kW
GD S650	700 m³/h @ 1 mbar (a) and 20°C	0.1 to 100 mbar (a)	< 0.001 mbar (a)		< 6/6 kW



PD M

Explosion-proof, single-stage, dry-screw vacuum pump

Model	Capacity	Typical Process Pressure	Final Pressure	Power Consumption Max. @ 400/460 VAC ~3	Power Consumption Final Pressure @ 400/460 VAC ~3
PD M100	100 m³/h @ 10 mbar (a) and 20°C	10 mbar (a)	< 1 mbar (a)	7.5/7.5 kW	< 3.5/3.5 kW
PD M160	160 m³/h @ 10 mbar (a) and 20°C				< 3.5/3.5 kW
PD M250	240 m³/h @ 1 mbar (a) and 20°C	1 mbar (a)	< 1 mbar (a)	4.5/4.5 kW	< 2.7/2.7 kW
PD M400	400 m³/h @ 1 mbar (a) and 20°C				< 2.9/2.9 kW



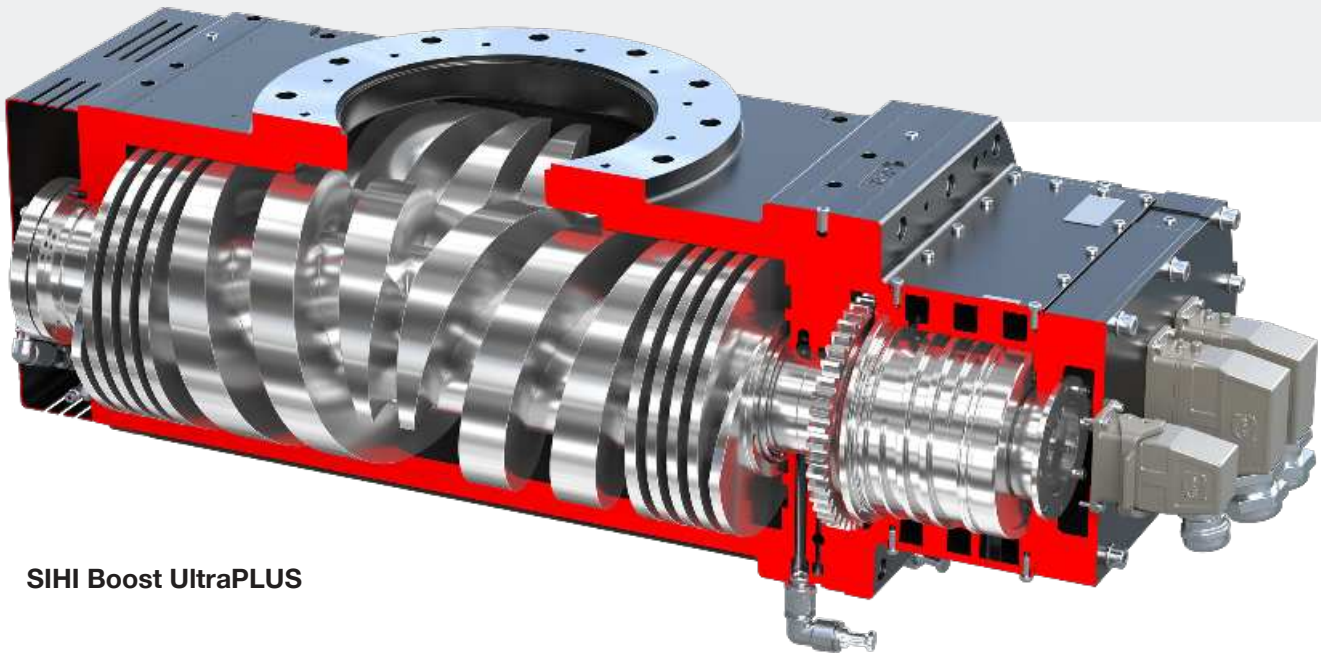
PD H

Explosion-proof, single-stage, dry-screw vacuum pump

Model	Capacity	Typical Process Pressure	Final Pressure	Power Consumption Max. @ 400/460 VAC ~3	Power Consumption Final Pressure @ 400/460 VAC ~3
PD H250	290 m³/h @ 10 mbar (a) and 20°C	10 mbar (a)	< 1 mbar (a)	10/10 kW	< 7/7 kW
PD H400	400 m³/h @ 10 mbar (a) and 20°C	10 mbar (a)	< 1 mbar (a)	12/12 kW	< 7/7 kW
PD H630	600 m³/h @ 10 mbar (a) and 20°C	10 mbar (a)	< 1 mbar (a)	20/20 kW	< 10/10 kW
PD H1000	1,000 m³/h @ 10 mbar (a) and 20°C	10 mbar (a)	< 1 mbar (a)	30/30 kW	< 18/18 kW

Dry screw SIHI Boost series

Dual-stage vacuum systems that deliver deep vacuum with less power. Provide completely dry compression of gases from vacuum up to atmospheric conditions.



SIHI Boost UltraPLUS

SIHI Boost UltraPLUS dry-running vacuum pump

Significantly faster pump-down times boost profitability of load lock applications.

Flowserve SIHI Boost dry-running vacuum pump systems, introduced in 2013, were designed for industrial medium and fine vacuum applications. The original design delivers clear advantages over traditional Roots blowers. SIHI Boost UltraPLUS advances this technology, more than doubling evacuation speed without increasing footprint through improved cooling, upgraded materials and optimized gap distribution, increasing continuous power from 12.5 to 28 kW.

SIHI Boost operational benefits

- **Low capital costs:** Unique high compression up to 100:1 means that high-capacity deep vacuum can be achieved with a reduced number of stages in which to reduce CAPEX costs.
- **High energy efficiency:** High compression also means that the backing pump stage(s) are much smaller than our competition in which to save electrical power and OPEX costs.
- **Highly reliable operation:** No gearboxes, mechanical seals and mid-stage backing pumps provide a foundation of vastly reduced moving parts and failure risks.
- **Improved uptime:** IoT-ready diagnosis is available to plug-and-play with most DCS systems.



PB A¹

Explosion-proof, dry-screw vacuum booster pump

Model	Capacity	Typical Process Pressure	Final Pressure	Power Consumption Max. @ 400/460 VAC ~3	Power Consumption Final Pressure @ 400/460 VAC ~3
PB A 3500	2,300 to 5,900m³/h @ 0.5mbar (a) and 20°C Depends on backing pump and speed.	0.1 to 1 mbar (a)	0.1 to 0.001 mbar (a) (0.075 to 0.00075 Torr) Depends on backing pump and speed.	10/10 kW (< 13.4/13.4 bhp)	2.5 kW to 4.5 kW (3.4 to 6 bhp)
PB A 5000					
PB A 6500					
PB A 8000					

GB A¹

Dry-screw vacuum booster pump



Model	Capacity	Typical Process Pressure	Final Pressure	Power Consumption Max. @ 400/460 VAC ~3	Power Consumption Final Pressure @ 400/460 VAC ~3
GB A 3500	2,300 to 5,900m³/h @ 0.5mbar (a) and 20°C Depends on backing pump and speed.	0.1 to 1 mbar (a)	0.1 to 0.001 mbar (a) (0.075 to 0.00075 Torr) Depends on backing pump and speed.	Continuous pumping 12.5/12.5 kW (< 16.7/16.7 bhp)	2.5 kW to 4.5 kW (3.4 to 6 bhp)
GB A 5000				Load lock pumping 15.5/15.5 kW (< 20.8/20.8 bhp)	
GB A 6500					
GB A 8000					

GB U+¹

High-performance, dry-screw vacuum booster pump



Model	Capacity	Typical Process Pressure	Final Pressure	Power Consumption Max. @ 400/460 VAC ~3	Power Consumption Final Pressure @ 400/460 VAC ~3
GB U+ A 3501	2,300 to 5,900m³/h @ 0.5mbar (a) and 20°C Depends on backing pump and speed.	0.1 to 1 mbar (a)	0.1 to 0.001 mbar (a) (0.075 to 0.00075 Torr) Depends on backing pump and speed.	21/21 kW (< 28.2/28.2 bhp)	5.5 kW to 7.5 kW (7.4 to 10.1 bhp)
GB U+ A 5001				25.1/25.1 kW (< 33.7/33.7 bhp)	
GB U+ A 6501				27.7/27.7 kW (< 37.2/37.2 bhp)	
GB U+ A 8001				27.7/27.7 kW (< 37.2/37.2 bhp)	

(1) Stand-alone booster pump to be combined with additional dry screw or liquid ring vacuum pump.



CB L

Dual-stage booster pump - SIHI Boost with liquid ring vacuum pump

Model	Capacity	Typical Process Pressure	Final Pressure	Power Consumption Max. @ 400/460 VAC ~3	Power Consumption Final Pressure @ 400/460 VAC ~3
CB-L 3500/162	2,300 m³/h @ 0.5 mbar (a) and 20°C	1 mbar (a)	< 0.05 mbar (a)	Continuous pumping < 17/18.5 kW Load lock pumping < 20/21.5 kW	< 5.0 kW
CB-L 5000/162	3,500 m³/h @ 0.5 mbar (a) and 20°C		< 0.007 mbar (a)		< 5.5 kW
CB-L 6500/162	4,600 m³/h @ 0.5 mbar (a) and 20°C		< 0.005 mbar (a)		< 6.5 kW
CB-L 8000/162	5,500 m³/h @ 0.5 mbar (a) and 20°C		< 0.003 mbar (a)		< 7.5 kW
CB-L 3500/252	2,400 m³/h @ 0.5 mbar (a) and 20°C	1 mbar (a)	< 0.05 mbar (a)	Continuous pumping < 18.5/20 kW Load lock pumping < 21/23 kW	< 5.5 kW
CB-L 5000/252	3,500 m³/h @ 0.5 mbar (a) and 20°C		< 0.007 mbar (a)		< 6 kW
CB-L 6500/252	4,700 m³/h @ 0.5 mbar (a) and 20°C		< 0.005 mbar (a)		< 7 kW
CB-L 8000/252	5,600 m³/h @ 0.5 mbar (a) and 20°C		< 0.003 mbar (a)		< 8 kW
CB-L 3500/327	2,400 m³/h @ 0.5 mbar (a) and 20°C	1 mbar (a)	< 0.05 mbar (a)	Continuous pumping < 20.5/23 kW Load lock pumping < 23.5/26 kW	< 7.5/9.5 kW
CB-L 5000/327	3,600 m³/h @ 0.5 mbar (a) and 20°C		< 0.007 mbar (a)		< 8.5/10.5 kW
CB-L 6500/327	4,700 m³/h @ 0.5 mbar (a) and 20°C		< 0.005 mbar (a)		< 9.5/11.5 kW
CB-L 8000/327	5,700 m³/h @ 0.5 mbar (a) and 20°C		< 0.003 mbar (a)		< 10.5/12.5 kW
CB-L 3500/427	2,400 m³/h @ 0.5 mbar (a) and 20°C	1 mbar (a)	< 0.05 mbar (a)	Continuous pumping < 24/28 kW Load lock pumping < 27/31 kW	< 10/14 kW
CB-L 5000/427	3,600 m³/h @ 0.5 mbar (a) and 20°C		< 0.007 mbar (a)		< 11/15 kW
CB-L 6500/427	4,800 m³/h @ 0.5 mbar (a) and 20°C		< 0.005 mbar (a)		< 12/16 kW
CB-L 8000/427	5,700 m³/h @ 0.5 mbar (a) and 20°C		< 0.003 mbar (a)		< 13/17 kW
CB-L 3500/502	2,400 m³/h @ 0.5 mbar (a) and 20°C	1 mbar (a)	< 0.05 mbar (a)	Continuous pumping < 28/28 kW Load lock pumping < 31/31 kW	< 14/14 kW
CB-L 5000/502	3,600 m³/h @ 0.5 mbar (a) and 20°C		< 0.007 mbar (a)		< 15/15 kW
CB-L 6500/502	4,800 m³/h @ 0.5 mbar (a) and 20°C		< 0.005 mbar (a)		< 16/16 kW
CB-L 8000/502	5,700 m³/h @ 0.5 mbar (a) and 20°C		< 0.003 mbar (a)		< 17/17 kW

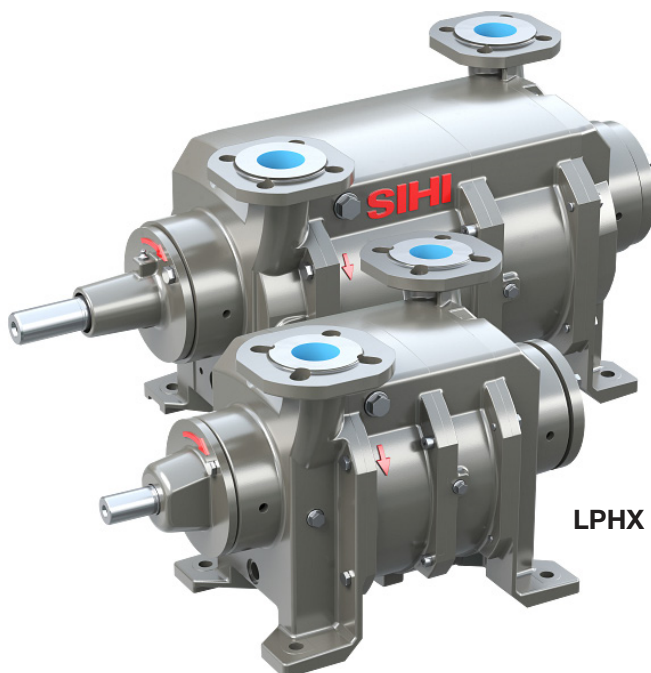
Liquid ring pumps and compressors

Flowserve's liquid ring pumps, a market-leading design, offer unmatched reliability and performance. With a diverse range of sizes and configurations, they provide tailored solutions for a wide array of industrial applications, ensuring optimal efficiency and versatility in demanding environments.

Operating data is valid for process medium = dry air @ 20°C and service liquid = water @ 15°C

Liquid ring vacuum pump working principle

In a liquid ring vacuum pump, an eccentrically mounted impeller rotates inside a cylindrical casing partially filled with service liquid. Centrifugal force forms a liquid ring along the casing wall. Due to the eccentric position, the spaces between the impeller blades change in volume. As these cavities pass the suction port, their volume increases, creating a vacuum that draws gas into the pump. Continued rotation reduces the cavity volume, compressing the gas, which is discharged together with some service liquid; the liquid is separated and recirculated. During compression, the service liquid heats up and must be cooled to prevent vapor pressure from reducing pump efficiency.



Operational benefits

- **ATEX Category 1 without flame arresters:** Providing a unique way of pumping Zone 0 flammable processes without the flame-arrester costs and blockages.
- **Versatile process capability:** Endless liquid ring choices provide an effective in-line condenser that's tolerant to extremely harsh process conditions.
- **Highly robust:** Arguably, this is the machine-enduring vacuum pump available in the market. Wide clearances and very heavy construction give an incredibly long product life with limited maintenance requirements.
- **Corrosion and erosion security:** Multiple material options enable highly corrosive and erosive process media to be pumped.

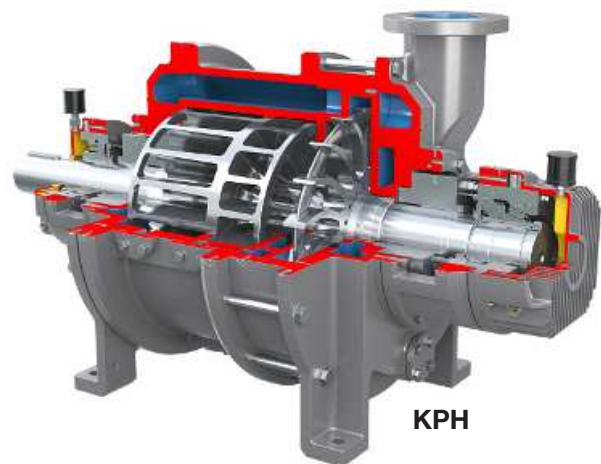
Liquid ring compressor working principle

Liquid ring vacuum compressors are a proven technology widely used across process industries, particularly for gas and vapor recovery. They are well-suited for operations under severe conditions where safety is critical. Demand for this equipment is expected to grow at nearly 5% per year through 2029, driven by reliable refinery applications such as flare gas recovery. Liquid ring compressors are also used in specialized processes, including chlorine and hydrogen compression, as well as the production of vinyl chloride monomers, biodiesel, ethanol and other transesterification products. A wide range of service liquids can be used to form a seal, making this technology ideal where process contamination must be avoided. Water is the most common service liquid and, combined with a simple design featuring only one moving part, enables efficient operation, long service life, reduced downtime and low maintenance costs. Although the technology has been in use for over 100 years, next-generation liquid ring compressors comply with current and anticipated API 681 standards for the chemical, gas and petroleum industries.



Operational benefits

- **Standards compliant efficiency:** API 681-compliant design with high isothermal efficiency for safe, energy-efficient operation.
- **Flexible installation:** Left or right hand discharge options simplify plant integration.
- **Efficient service liquid control:** Adjustable service liquid consumption optimizes performance across operating conditions.
- **Compact, robust design:** Small footprint with integrated rotor support and between bearings construction for long service life.
- **Low-vibration operation:** Smooth running reduces noise, wear and foundational requirements.



Flowserve SIHI KPH 85229 liquid ring compressors deliver reliable compression of a wide range of gases and vapors in services where safety, reliability and demanding process conditions are essential. Engineered on proven liquid ring technology, they perform in severe-duty applications and can operate with a variety of service liquids, making them well-suited for processes where contamination cannot be tolerated. API 681 compliance further strengthens their value for critical oil and gas, petrochemical and chemical processing applications by demonstrating alignment with a recognized industry standard.



LEMD

Single-stage, closed-coupled liquid ring vacuum pump

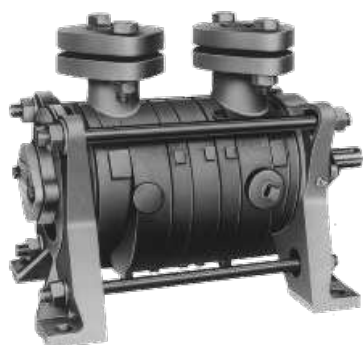
Model	Nominal Capacity (m³/hr)	Total Final Pressure (mbar)	Shaft Power (kW)
LEMD 27	24	33	1.1
LEMD 52	45	33	2.2
LEMD 92	61	33	3.0
LEMD 127	82.5	33	3.0
LEMD 162	145	33	5.5
LEMD 252	195	33	5.5
LEMD 327	270	33	11.0
LEMD 427	380	33	11.0



LEH

Single-stage, liquid ring vacuum pump

Model	Nominal Capacity (m³/hr)	Total Final Pressure (mbar)	Shaft Power (kW)
LEH 350	290	33	7.5
LEH 450	420	33	11.0
LEH 600	550	33	15.0
LEH 800	700	33	18.5
LEH 900	800	33	22.0
LEH 1200	1,200	33	30.0
LEH 1500	1,460	33	37.0
LEH 1800	1,670	33	45.0
LEH 2200	2,100	33	55.0
LEH 3000	2,850	33	75.0
LEH 3600	3,400	33	90.0
LEH 4400	4,200	33	110.0



LOH

Small liquid ring vacuum pump

Type	Model	Nominal Capacity (m³/hr)	Total Final Pressure (mbar)	Shaft Power (kW)
Single stage	LOH 20103	21	150	1.1
	LOH 20107	47	150	1.5
Double stage	LOH 05501	4.8	80	0.55
	LOH 25003	23	40	1.1
	LOH 25007	47	40	1.5
	LOH 25309	60	33	2.2

Small liquid ring compressor

Type	Model	Nominal Capacity (m³/hr)	Total Final Pressure (barg)	Shaft Power (kW)
Double stage	LOH 05501	3.4	1.5	0.55
	LOH 20103	16	0.8	1.1
	LOH 20107	40	0.8	2.2
	LOH 25003	14	1.5	1.1
	LOH 25007	30	1.5	1.5
	LOH 25309	44	1.2	2.2

LPHX

Medium size liquid ring vacuum pump



Type	Model	Nominal Capacity (m³/hr)	Total Final Pressure (mbar)	Shaft Power (kW)
Single stage	LPHX 40106	77	150	2.2
	LPHX 40411	139	150	3.6
	LPHX 40516	215	150	5.5
	LPHX 50523	418	120	11.0
	LPHX 60527	653	120	17.5
Double stage	LPHX 45008	108	33	3.0
	LPHX 45311	147	33	4.0
	LPHX 45316	214	33	5.5
	LPHX 55312	316	33	7.5
	LPHX 55316	381	33	10.0
	LPHX 55320	472	33	11.0
	LPHX 65320	544	33	15.0
	LPHX 65327	680	33	17.5

Medium size liquid ring vacuum compressors

Type	Model	Nominal Capacity (m³/hr)	Total Final Pressure (barg)	Shaft Power (kW)
Single stage	LPHX 40106	75	0.8	2.5
	LPHX 40411	138	0.8	4.0
	LPHX 50523	405	1.5	17.5
	LPHX 60527	645	1.5	30.0
Double stage	LPHX 45008	86	1.5	5.0
	LPHX 45316	125	1.2	6.8



LPH

Large size liquid ring vacuum pump

Type	Model	Nominal Capacity (m³/hr)	Total Final Pressure (mbar)	Shaft Power (kW)
Single stage	LPH 70123	850	120	22.0
	LPH 70530	1,190	120	30.0
	LPH 70540	1,620	120	40.0
	KPH 80540	2,500	1.5	43.0
	KPH 80553	3,250	1.5	55.0
	KPH 90554	4,150	1.5	62.0
	KPH 90567	4,850	1.5	80.0
	KPH 10054	6,600	1.5	100.0
	KPH 11055	9,800	1.5	152.0
Double stage	LPH 75320	1,000	33	27.0
	LPH 75330	1,380	33	37.0
	LPH 75340	1,790	33	40.0
	LPH 85340	2,350	33	68.0
	LPH 85353	2,950	33	80.0
	LPH 95354	3,850	33	90.0
	LPH 95367	4,700	33	110.0
	LPH 10534	7,100	33	160.0
	LPH 11535	10,350	33	200.0





KPH

Large size liquid ring compressors

Type	Model	Nominal Capacity (m³/hr)	Total Final Pressure (barg)	Shaft Power (kW)
Single stage	KPH 80540	2,850	1.5	153.0
	KPH 80553	3,650	1.5	194.0
	KPH 90554	4,450	1.5	218.0
	KPH 90567	5,300	1.5	280.0
	KPH 10054	7,200	1.5	387.0
	KPH 11055	10,500	1.5	540.0
Double stage	KPH 55206	115	7	23.5
	KPH 55209	172	7	33.0
	KPH 65112	365	3.5	37.0
	KPH 65118	555	3.5	45.0
	KPH 65127	845	3.5	75.0
	KPH 65212	440	7	91.0
	KPH 65218	660	7	133.0
	KPH 85220	1,115	7	225.0
	KPH 85227	1,450	7	282.0
	KPH 85229	2,100	10	420.0
	KPH 92552	3,100	6	560.0
	KPH 95652	3,050	12	750.0



Pre-engineered liquid ring vacuum systems

Standardized systems (Modular D/X)

Flowserve's SIHI Modular D and X models are pre-engineered liquid ring vacuum systems that can be easily customized to meet specific application requirements, ensuring fast turnaround on quotes and deliveries. Designed for new or expanding installations, these optimized systems offer a range of options, from fresh liquid/combined to closed-loop operation, helping processes start quickly and economically. Available in configurations suited for demanding vacuum applications, they deliver reliable performance across a wide operating range, with flow capacities up to 700 m³/hr and suction pressures from 33 to 1,013 mbar.

Custom engineering systems are also available.

Modular D



Modular X



Model	Nominal Capacity (m³/hr)	Total Final Pressure (mbar)	Shaft Power (kW)
Modular D	450	33	16.5
Modular X	700	33	18.5

RedRaven IoT and QRC network

A revolution in flow motion IoT

Flow control equipment is critical to plant reliability. RedRaven is Flowserve’s proactive reliability partnership, delivering insights, expert reviews and practical recommendations to prevent failures. Rather than asking teams to watch dashboards or interpret raw signals, Flowserve specialists identify issues early and guide next steps to protect uptime and reduce risk.

RedRaven combines OEM sensors, secure connectivity and analytics with an integrated monitoring service. Certified vibration analysts in the Flowserve Monitoring Center provide 24/7 oversights, validate alerts, diagnose likely causes, and recommend prescriptive actions. OEM analytics detect 15+ failure modes (e.g., cavitation, imbalance, bearing wear) and convert data into clear priorities, improving maintenance decisions, extending equipment life, and reducing unplanned downtime and costly failures.

By combining Flowserve’s innovative IoT products, analytics technology and expert service, you can:

- **Predict equipment behaviors:** Detect issues early and act quickly using trend analysis to reduce downtime.
- **Refocus maintenance efforts:** Prioritize critical assets, eliminate unnecessary inspections, and improve team efficiency.
- **Enhance equipment efficiency:** Keep assets operating in optimal conditions with OEM expertise and real-time insights.
- **Reduce costs:** Lower total cost of ownership by preventing failures and minimizing production risks.
- **Improve safety:** Reduce manual inspections and technician exposure while enabling informed, timely actions.

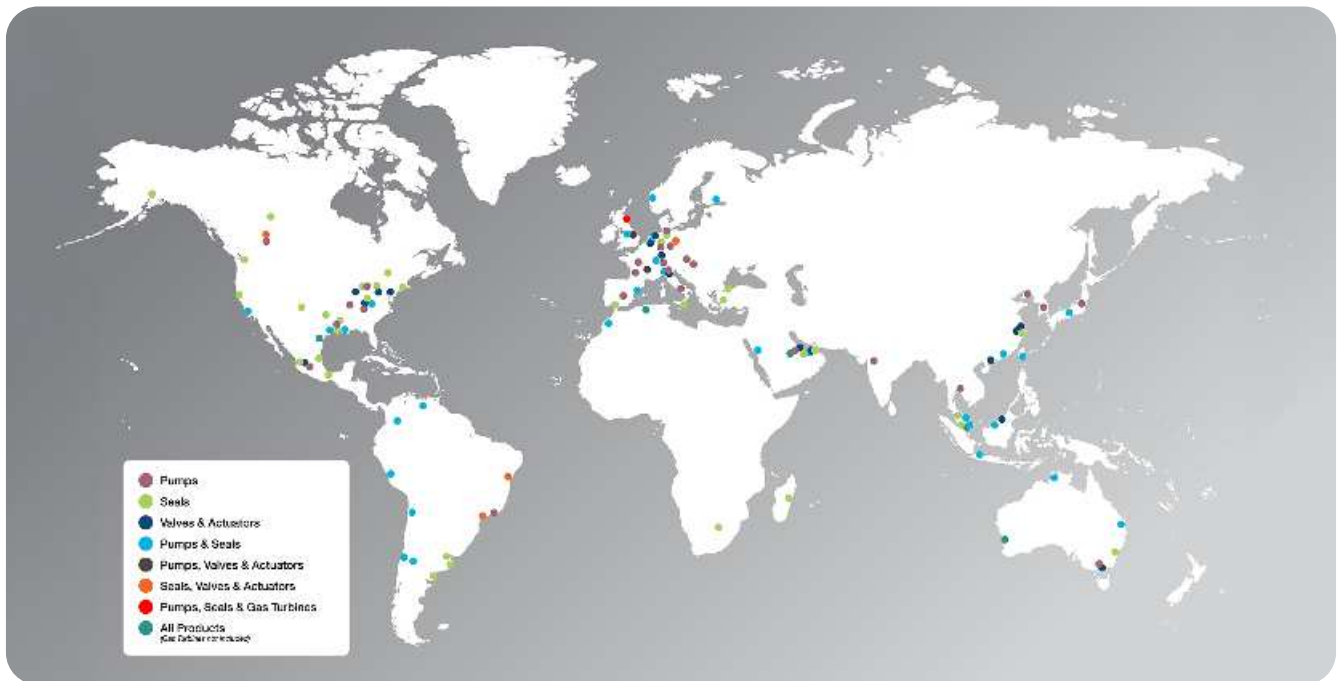


Global expertise

Flowserve’s Quick Response Centers (QRCs) are positioned worldwide to deliver rapid support and services.

Local solutions

With over 150 QRCs around the globe, our extensive engineering footprint enables us to solve the toughest challenges and provide fast, reliable service through optimally located centers.





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PUCAT002098-GBL-04 (EN/A4) May 2026

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