

Trusted Reliability for **the** **Long Run**

Reliable AODD Solutions for
Demanding Applications since 1981



44 Years of Proven Engineering

Founded in 1981 by a technocrat with a clear engineering vision, HI-LIFE Manufacturing began with a focused objective – manufacturing dependable chemical process pumps for India's process industries.

Over the decades, the company expanded its capabilities with the introduction of Air Operated Double Diaphragm (AODD) Pumps, strengthening its position in advanced fluid handling applications.

With continuous investments in engineering validation, testing infrastructure, and structured quality systems, HI-LIFE steadily built credibility across refineries, pharmaceutical plants, chemical industries, and other process sectors.

Today, HI-LIFE stands as a trusted engineering manufacturer with over four decades of experience and a proven presence across critical industrial applications.

Vision

To be a respected industrial pumping brand recognized for precision engineering and reliable performance in critical process applications.

Mission

To manufacture high-quality Air Operated Double Diaphragm (AODD) Pumps through disciplined engineering, continuous improvement, and uncompromising quality standards.



Core Values



Kaizen Mindset

Continuous improvement in design, materials, processes, and service. Every refinement compounds into long-term reliability.



Engineering Discipline

No shortcuts. Only standardized, documented, and proven manufacturing processes.



Trust Built Over Time

Relationships measured in decades – not transactions.



Application-First Thinking

Every pump is engineered for its real operating environment – fluid chemistry, pressure, viscosity, solids content, and duty cycle.



Responsibility

Our pumps operate in critical infrastructure. Failure is not an option.

Leadership Philosophy

- HI-LIFE's growth is structured and professional.
- Leadership guided by technical domain expertise
 - Clear accountability across production, quality, and service
 - Systems-driven expansion
 - Institutional capability over personality-driven management



Legacy is treated as a responsibility – not as a marketing claim.

Milestones in Engineering Progress



1981

HI-LIFE Manufacturing Co. established to manufacture chemical process pumps for India's process industries.

1993

Introduction of Air Operated Double Diaphragm (AODD) Pumps as a high-quality domestic alternative to imported systems.

1996

Establishment of an in-house pump testing laboratory with third-party inspection capabilities.

1999

First international export order executed to Dubai.

2001-2002

Achieved ISO 9001:2000 certification, becoming the first Indian AODD pump manufacturer certified under this standard.

2003-2005

Enlisted with leading consultants including Engineers India Limited (EIL), Toyo Engineering India, Technip Energies, ONGC, Tata Projects, and Larsen & Toubro.

2026

Corporatization of Business as **HI-LIFE Manufacturing Co. Pvt. Ltd.**

Enlistments

HI-LIFE pumps are approved by leading engineering consultants and project contractors across major process industries. This recognition is earned through consistent product reliability, engineering discipline, and proven field performance. Our solutions are trusted in demanding industrial environments.



ISO Certified & Recognised Approvals

HI-LIFE maintains recognized quality standards (ISO 9001:2015) and institutional approvals that reinforce our engineering credibility. These acknowledgements reflect consistent manufacturing practices and reliable field performance. They stand as a testament to the trust placed in HI-LIFE across the process industry.



Valued Customers

HI-LIFE pumps operate in facilities of:



Air Operated Double Diaphragm (AODD) Pumps

HI-LIFE manufactures **metallic and non-metallic AODD pumps** in multiple inlet-outlet configurations, engineered for corrosive, abrasive, hazardous, and high-viscosity fluid handling.

All pumps are:

Seal-less

Explosion-proof

Self-priming up to 6 meters

Capable of variable flow control up to 45 m³/hr

Designed to handle abrasive and corrosive fluids

Covered under 1-Year Warranty

Low maintenance

Lube-free design

Non-stalling

High reliability in harsh conditions

Versatile by Design. Proven Across Industries.

Air Operated Double Diaphragm (AODD) pumps are among the most versatile solutions for handling a wide range of industrial fluids. From corrosive chemicals to viscous slurries, their robust design ensures safe and reliable operation across diverse process environments. With HI-LIFE, industries can leverage AODD technology to improve efficiency, safety, and operational reliability.

Chemical Industry	Well-Drilling Operations	Pulp & Paper Industry	Construction, Chemicals & Cement Slurry Handling
Dyestuff Industry	Beverage & Distilleries	Mining & Mineral Processing	Shipbuilding & Marine Applications
Petrochemical Industry	Dry Powder Transfer	Textile Processing & Printing	Power Plants & Utilities
Refinery Operations	Drugs & Pharmaceutical Industry	Leather & Tannery Industry	Battery Manufacturing & Recycling
Waste Treatment Plants	Automobile Industry	Surface Treatment & Electroplating	Bulk Chemical Transfer & Tank Farm Operations
Ceramic Plants	Oil & Lubricants	Fertilizer & Agrochemical Industry	Hazardous & Flammable Liquid Handling
Food Processing Industry	Glues & Adhesives	Cosmetics & Personal Care	Slurry, Mud & High-Solid Fluid Transfer
Rubber Industry	Ink Printing & Liquid Processing	Resin, Polymer & Plastic Processing	
Paint & Coatings	Water & Effluent Treatment Plants (ETP / STP)		

Metallic AODD Pumps

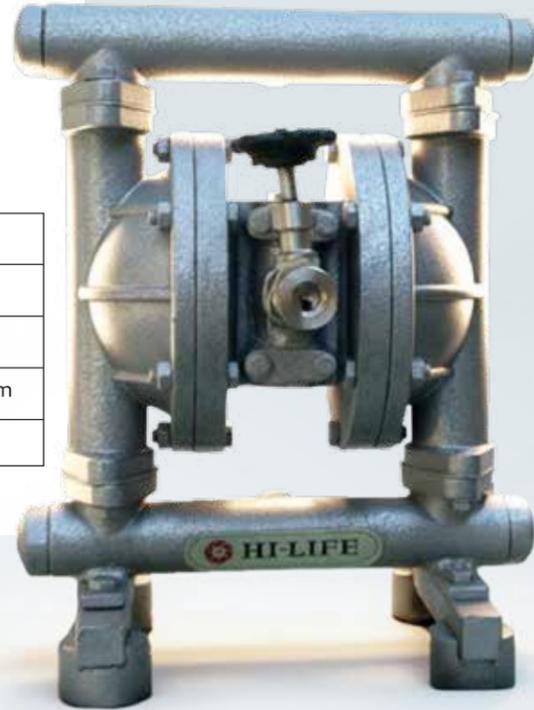
Available Materials

ALLU, SS 316, SS 316 L, SS 304, C.S

HL - 15 Metallic AODD Pump ½ inch

Designed for compact installations requiring durability and precision handling.

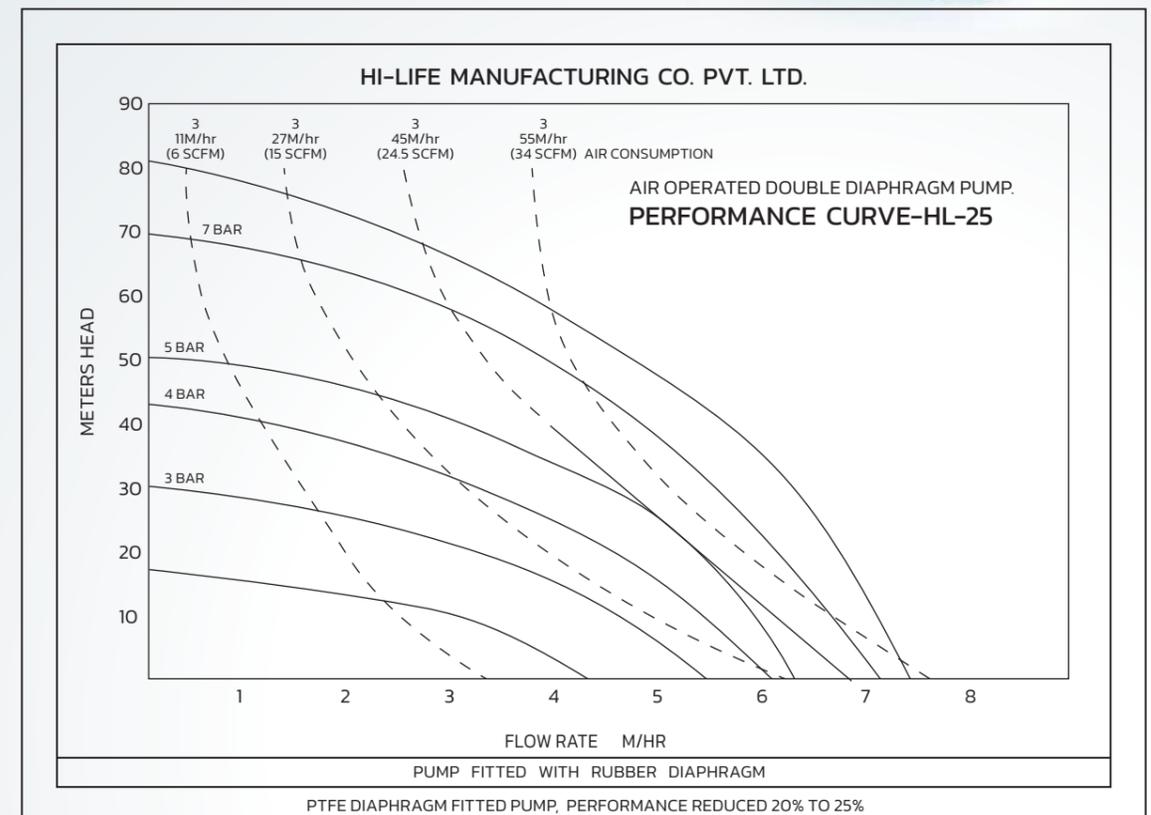
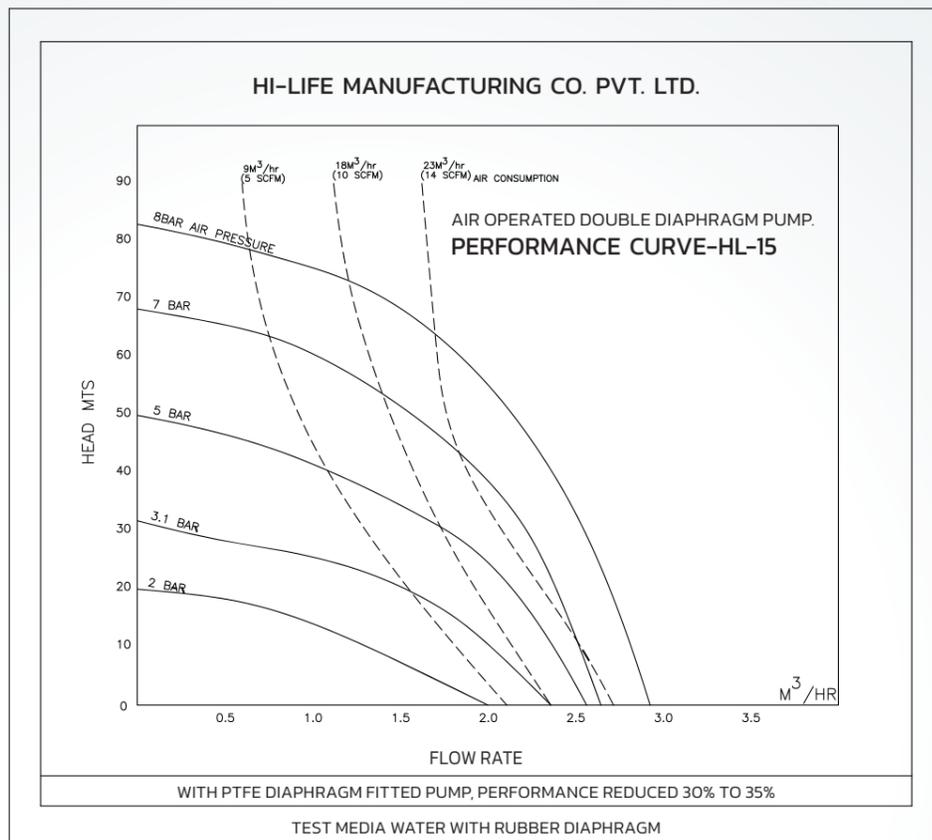
SPECIFICATIONS	Flow Rate Adjustable Upto 50 LPM
PORT SIZE	Inlet: 15 mm, Outlet: 15 mm
AIR INLET	1/4 inch BSP Air Exhaust: 3/8 inch BSP
SUCTION DRY	6 mts Wet, 4.0 mts; Max. Particle Size: 1.5 mm
MOC	ALLU, SS 304, SS 316, SS 316L, C.S



HL - 25 Metallic AODD Pump 1 inch

Engineered for higher flow and demanding industrial operations.

SPECIFICATIONS	Flow Rate Adjustable Upto 105 LPM
PORT SIZE	Inlet: 25 mm, Outlet: 25 mm
AIR INLET	1/4 inch BSP Air Exhaust: 1/2 inch BSP
SUCTION DRY	6 mts Wet, 4.0 mts; Max. Particle Size: 2.5 mm
MOC	ALLU, SS 304, SS 316, SS 316L, C.S



HL - 40 Metallic AODD Pump 1.5 inch

Engineered for reliable performance in medium-to-high flow industrial applications.



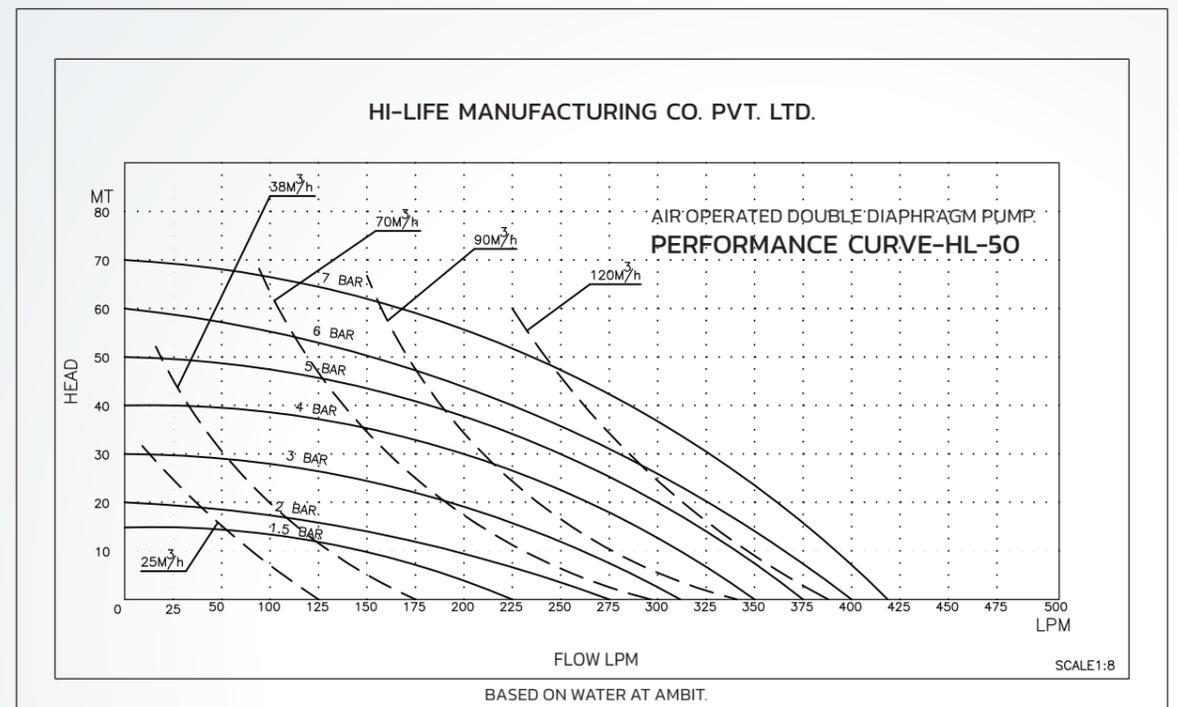
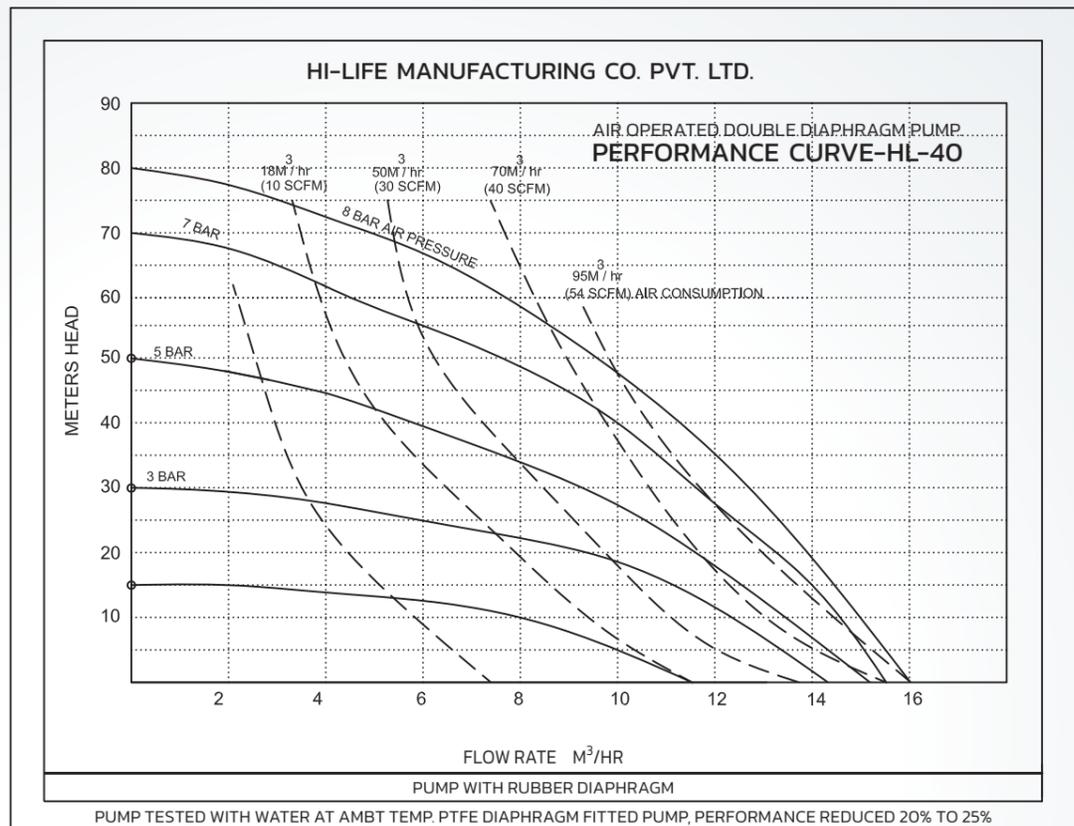
SPECIFICATIONS	Flow Rate Adjustable Upto 210 LPM
PORT SIZE	Inlet: 40 mm, Outlet: 40 mm
AIR INLET	1/2 inch BSP Air Exhaust: 3/4 inch BSP
SUCTION DRY	6 mts Wet, 4.0 mts; Max. Particle Size: 4 mm
MOC	ALLU, SS 304, SS 316, SS 316L, C.S

HL - 50 Metallic AODD Pump 2 inch

Built for higher capacity operations requiring consistent and powerful fluid transfer.



SPECIFICATIONS	Flow Rate Adjustable Upto 450 LPM
PORT SIZE	Inlet: 50 mm, Outlet: 50 mm
AIR INLET	1/2 inch BSP Air Exhaust: 3/4 inch BSP
SUCTION DRY	6 mts Wet, 4.0 mts; Max. Particle Size: 6 mm
MOC	ALLU, SS 304, SS 316, SS 316L, C.S



Non-Metallic AODD Pumps

Available Materials
Polypropylene, TEFLON, UHMW

HL – 80 Metallic AODD Pump

Designed for large-scale industrial applications demanding maximum flow and reliability.

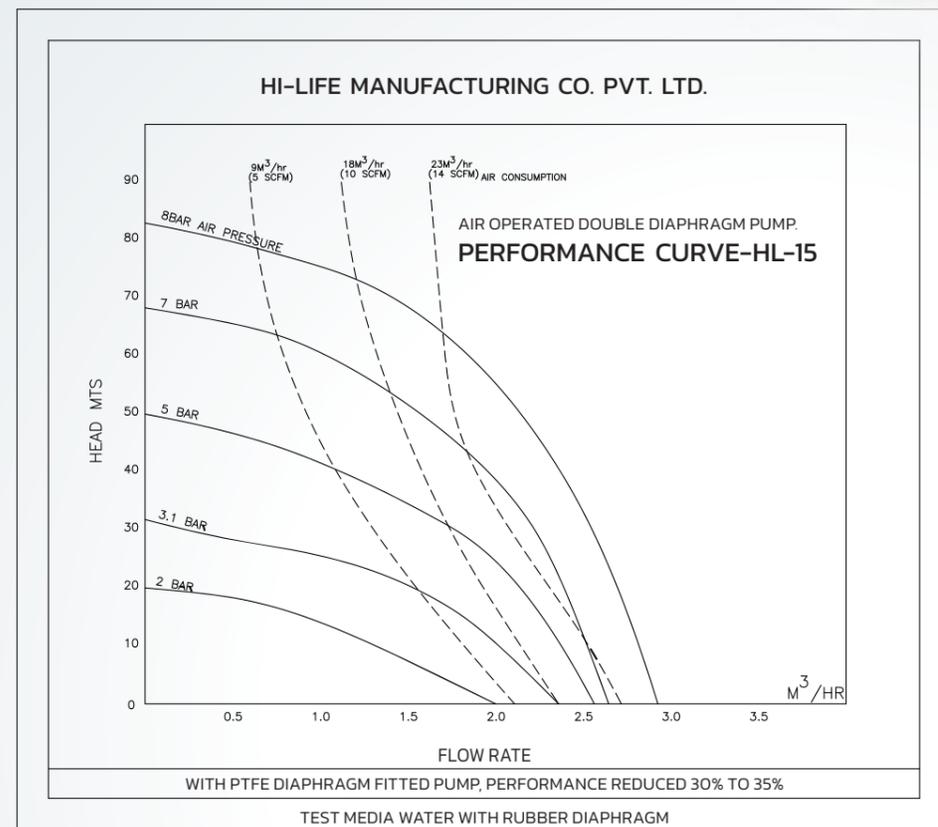
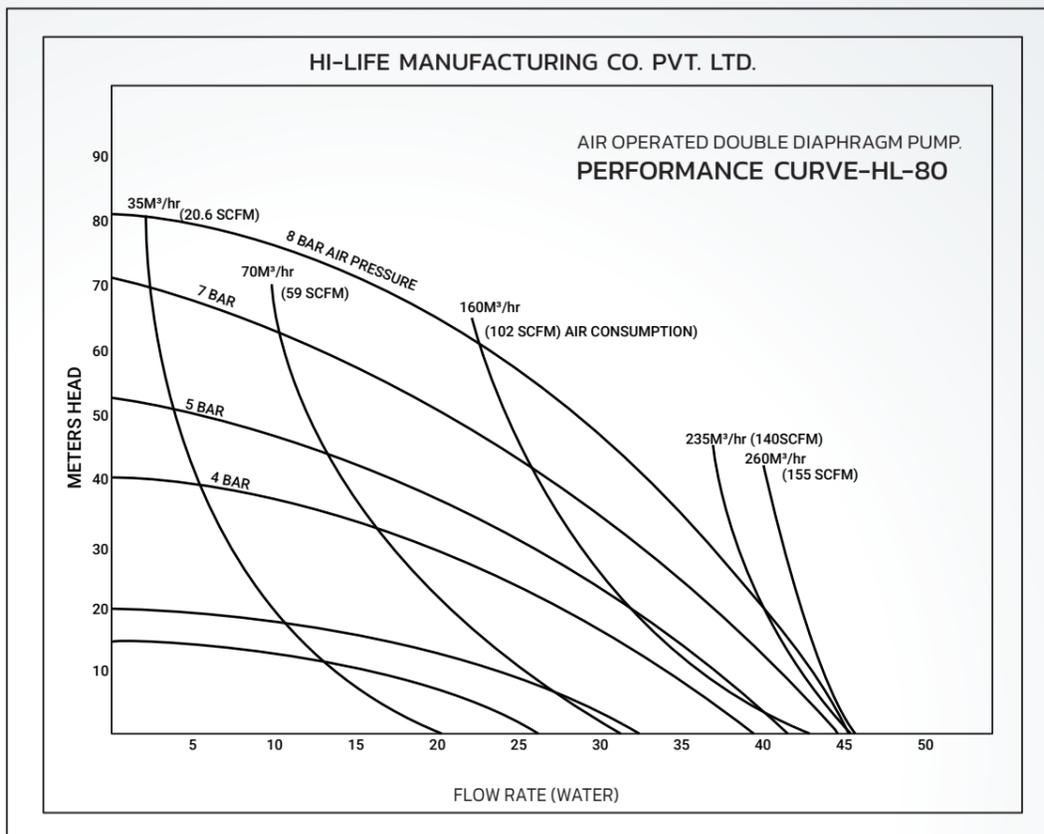
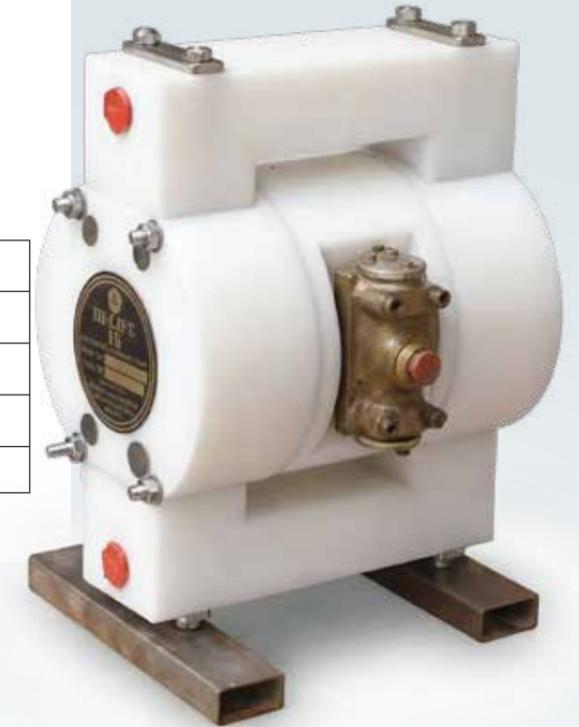
SPECIFICATIONS	Flow Rate Adjustable Upto 800 LPM
PORT SIZE	Inlet: 80 mm, Outlet: 80 mm
AIR INLET	3/4 inch BSP Air Exhaust: 1 inch BSP
SUCTION DRY	6 mts Wet, 4.0 mts; Max. Particle Size: 10 mm
MOC	ALLU, SS 304, SS 316, SS 316L, C.S



HL – 15 Non-Metallic AODD Pump ½ inch

Engineered for reliable handling of corrosive chemicals and slurry applications in compact industrial setups.

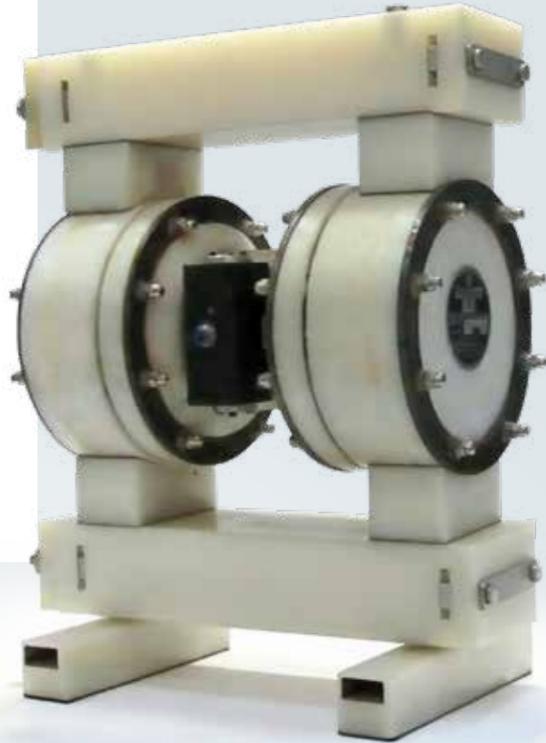
SPECIFICATIONS	Flow Rate Adjustable Upto 50 LPM
PORT SIZE	Inlet: 15 mm, Outlet: 15 mm
AIR INLET	1/4 inch BSP Air Exhaust: 3/8 inch BSP
SUCTION DRY	6 mts Wet, 4.0 mts; Max. Particle Size: 1.5 mm
MOC	PP, UHMW, TEFLON



HL - 25 Non-Metallic AODD Pump 1 inch

Designed for smooth transfer of aggressive, viscous, and solids-laden fluids in demanding process environments.

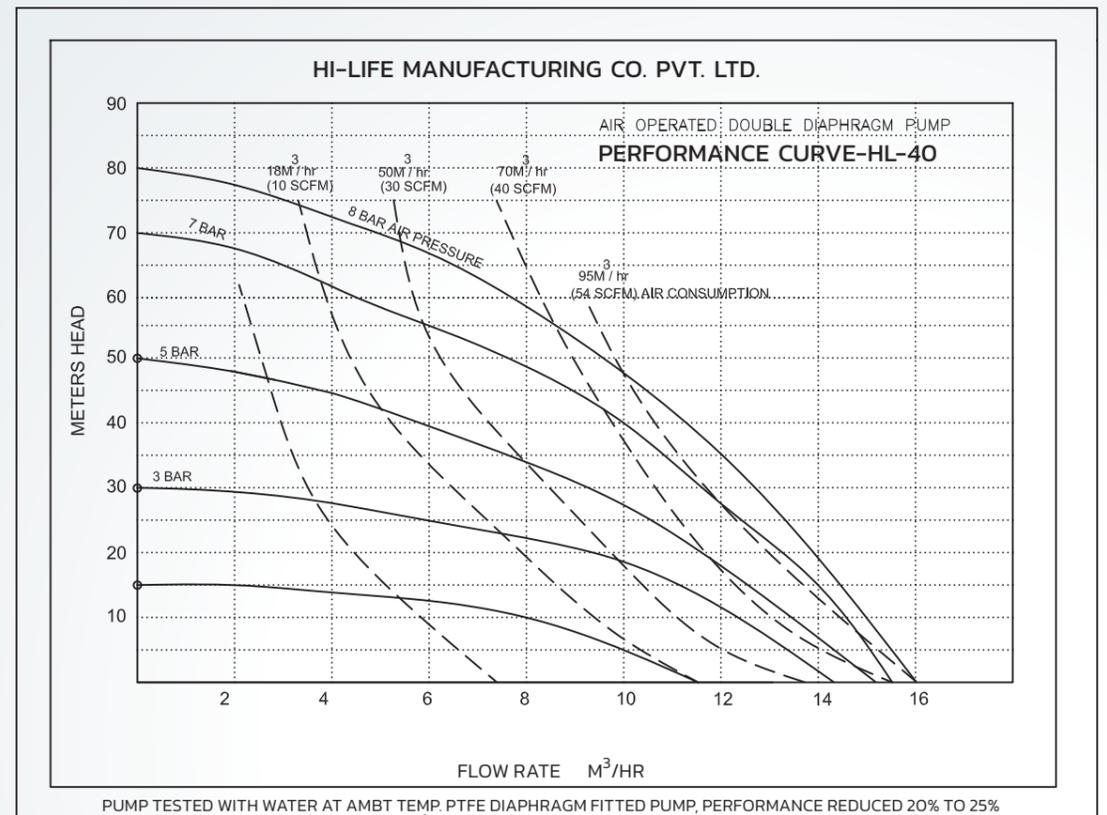
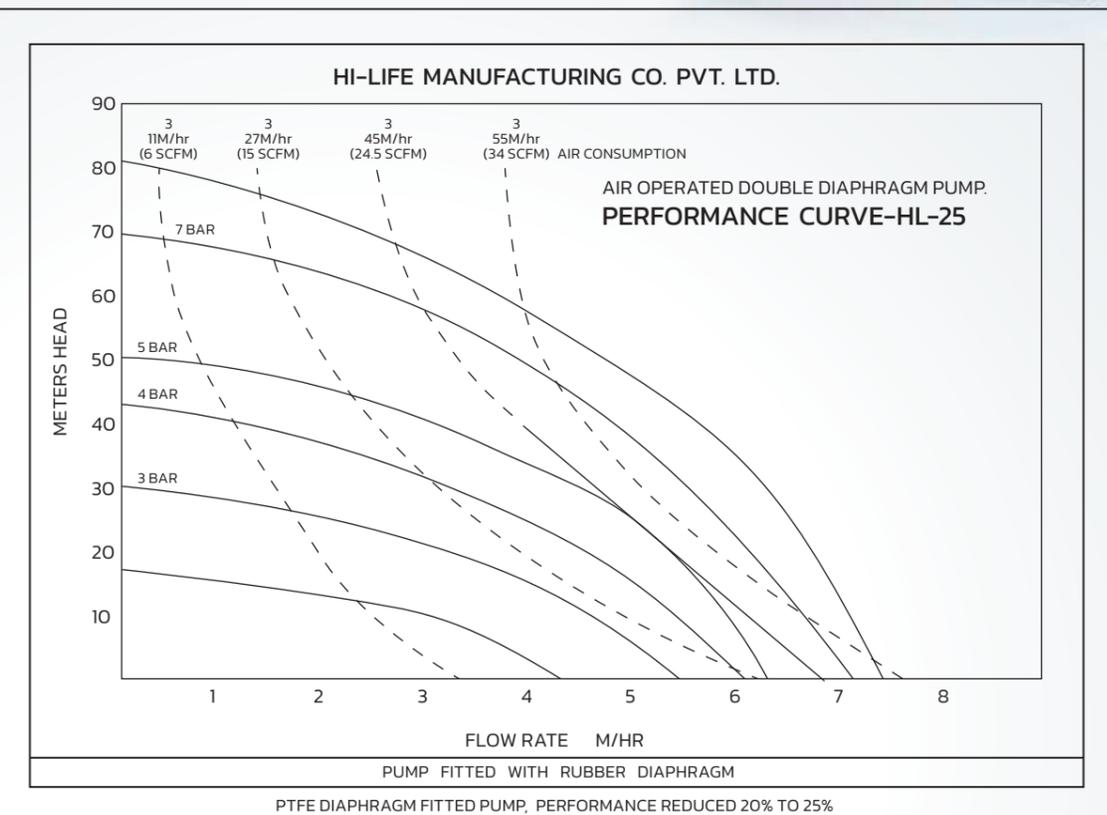
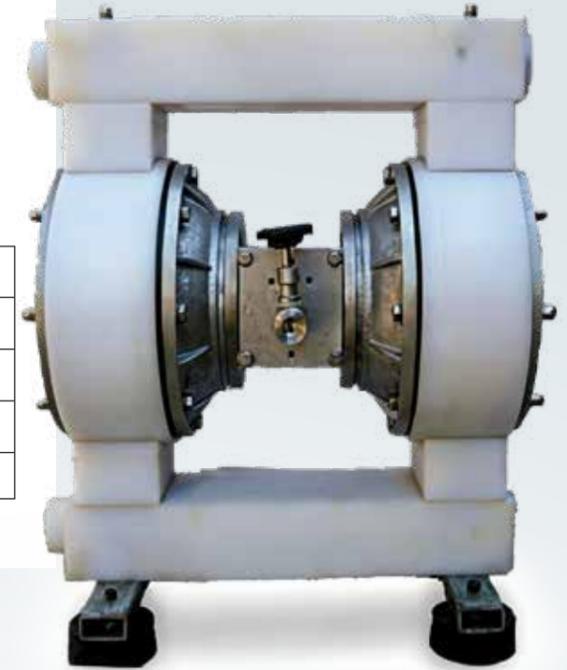
SPECIFICATIONS	Flow Rate Adjustable Upto 105 LPM
PORT SIZE	Inlet: 25 mm, Outlet: 25 mm
AIR INLET	1/4 inch BSP Air Exhaust: 1/2 inch BSP
SUCTION DRY	6 mts Wet, 4.0 mts; Max. Particle Size: 2.5 mm
MOC	PP, UHMW, TEFLON



HL - 40 Non-Metallic AODD Pump 1.5 inch

Designed for reliable handling of sludge, slurry, & abrasive fluids across demanding industrial applications.

SPECIFICATIONS	Flow Rate Adjustable Upto 210 LPM
PORT SIZE	Inlet: 40 mm, Outlet: 40 mm
AIR INLET	1/2 inch BSP Air Exhaust: 3/4 inch BSP
SUCTION DRY	6 mts Wet, 4.0 mts; Max. Particle Size: 4 mm
MOC	PP, UHMW, TEFLON



HL - 50 Non-Metallic AODD Pump 2 inch

Engineered to efficiently transfer viscous fluids & solids-laden media across diverse industrial processes.

SPECIFICATIONS	Flow Rate Adjustable Upto 450 LPM
PORT SIZE	Inlet: 50 mm, Outlet: 50 mm
AIR INLET	1/2 inch BSP Air Exhaust: 3/4 inch BSP
SUCTION DRY	6 mts Wet, 4.0 mts; Max. Particle Size: 6 mm
MOC	PP, UHMW, TEFLON

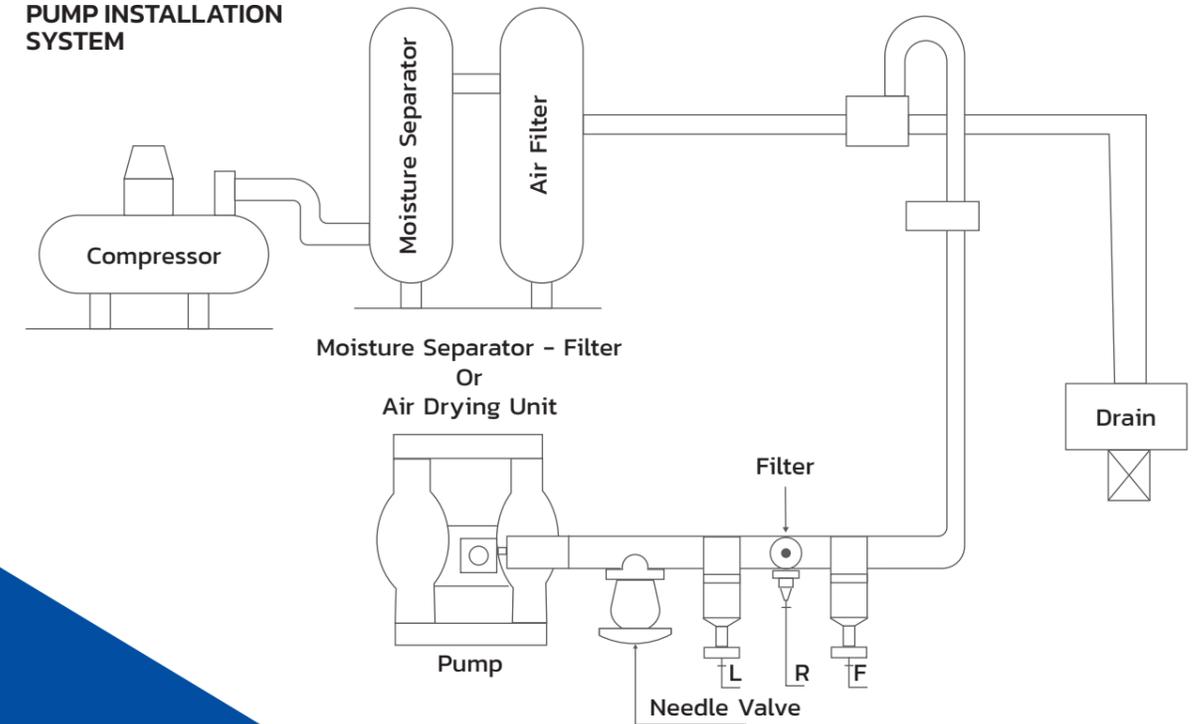


Accessories & System Enhancements

FRL Filter (Filter-Regulator-Lubricator)

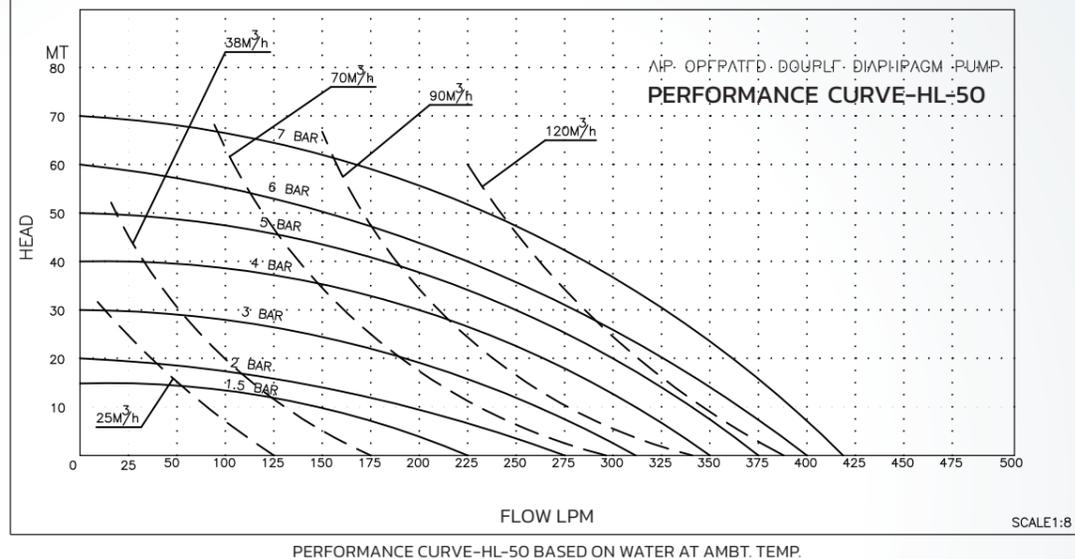
Ensures clean air supply, stable pressure regulation, & lubrication where required - extending pump life and maintaining air system reliability.

PUMP INSTALLATION SYSTEM



The above system must be followed strictly for trouble-free pump operation.

HI-LIFE MANUFACTURING CO. PVT. LTD.



Stroke Counter

Enables monitoring of pump usage for predictive maintenance planning.

Leak Detector

Provides early detection of internal or external leakage to prevent product loss and environmental hazards.

Pump Equalizer

Balances diaphragm movement, reduces vibration, & enhances operational stability.

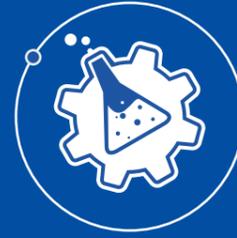
Diaphragm Rupture Indicator

Immediate indication of diaphragm failure to prevent contamination & system damage.

Chemical & Material **Compatibility**

HI-LIFE AODD pumps are available in a wide range of wetted material configurations – including SS 316, SS 304, SS 316L, CS, Aluminium, PP, UHMW, and Teflon – with diaphragm options in Neoprene, PTFE, Buna-N (Nitrile), and EPDM.

This versatility ensures reliable fluid handling across aggressive chemicals, solvents, slurries, and food-grade applications without compromising pump integrity or service life.



Easy Maintenance & **Low Downtime**

HI-LIFE AODD pumps feature a tool-friendly modular design, allowing diaphragms, valve balls, and seats to be replaced quickly – without specialised equipment or trained technicians on-site.

With minimal moving parts and no mechanical seals, routine maintenance is straightforward, reducing operational downtime and long-term service costs across continuous-duty industrial environments.



Engineering **Refinement**

Continuous engineering refinement improves diaphragm durability, valve performance, bush reliability, and air distribution stability – ensuring consistent performance across demanding industrial environments.

Field performance feedback plays an important role in strengthening product reliability and long-term operational stability.



Quality **Philosophy**

At HI-LIFE, quality is engineered into every pump – not inspected at the end.

HI-LIFE has maintained ISO-certified quality systems since 2003, ensuring disciplined manufacturing processes and consistent product reliability across industrial applications.



Manufacturing & **Testing**

Every pump undergoes rigorous inspection & testing before dispatch, including:

- Dimensional inspection
- Flow rate testing
- Air pressure validation
- Leakage inspection

Each unit is tested and validated within our facility to ensure dependable field performance.

All deviations are investigated, documented, and corrected through a structured corrective action system, ensuring continuous improvement in product performance.



Warranty & **Service Protocol**

- 1-Year Warranty against manufacturing defects
- Prompt replacement support within the warranty period where applicable





HI-LIFE[®]

HI-LIFE Manufacturing Co. Pvt. Ltd.

61, Pushkar Mahadev Industrial Estate,
New Ramol-Vatva Railway Bridge,
Vatva G.I.D.C. Phase-1, Ahmedabad - 382445.

Phone: +91 7623025259 | +91 97273 72995

Email: sales@hilifepump.com