



## Membrane Housing



# Legacy

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## About Us

**Arvind Envisol**, a division of Arvind Ltd., is a key player in the global water and wastewater treatment sector. We cater to both OEMs and end customers, providing comprehensive solutions for projects, services, and components. Our commitment to cutting-edge solutions addresses the intricate challenges of global water management. With a diverse portfolio, including products such as **KaiGO** FRP/HDPE Components, **Segmo** Solid Liquid Separation, **Cirflo** Pipe, Fittings and Valves, **Qurem** Membranes & Filters, **Konsiq** Instrumentation, **Orroto** Rotating Equipment, **Verlec** Electrical, **Qemistro** Chemicals, and **Listra** Mechanical spares, we offer a wide range of solutions. As a dedicated industry participant, Arvind Envisol remains unwavering in our commitment to excellence, positioning ourselves as a reliable partner for project success across domains like project, service, and component needs. Today, our growing client portfolio trusts us for world-class components and services to purify, replenish, and recycle water resources.

## Introduction

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The high quality KaiGO membrane housing are used for reverse osmosis processes. They are built to maximize the performance of water treatment and purification systems. Our extensive range of KaiGO membrane housing guarantees the right specification for each application.

KaiGO membrane housing are widely used for diverse water applications including

- Industrial Water Treatment
- Municipal Water Treatment
- Industrial Wastewater Treatment
- Sea Water Desalination Reverse Osmosis
- Food and beverage
- Power Generation

All KaiGO membrane housing models are designed for continuous use as housing for membrane filtration elements to purify water at any positive pressure up to 1800 PSI. The design will accommodate any make of four-inch and eight-inch nominal diameter spiral-wound element. The element interface hardware for the specified element is supplied with the vessel. The models have been designed to comply with the standards of the American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code, Section X.

# Manufacturing Process

Winding



Paint



Testing



Assembly



Packaging



Oven



# Product details

## Unique features of KaiGO membrane housing

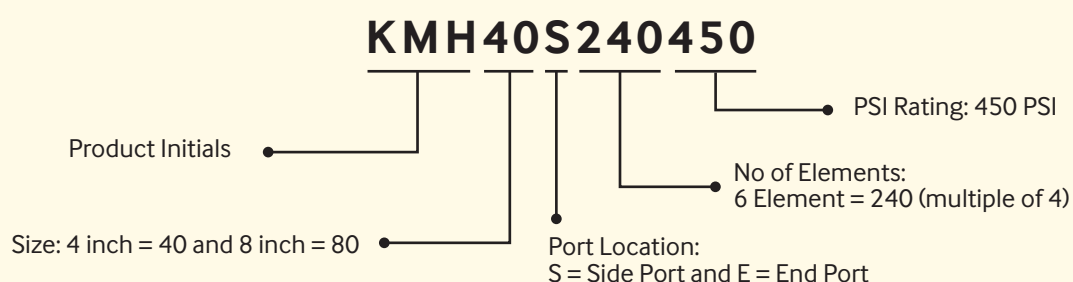
- Metallic ring, on groove edge, provides higher retaining strength to the circlip, even at high pressures, and prevents damage to end cap locking groove
- Uniform & precise inner diameter results in better membrane sealing with pressure tube housing
- End cap fitting with finger pull type circlip enables tools free operation
- Inner surface with high glossy & mirror finish (72.1 GU vs 55-60 GU of competitor brands) - helps in smooth membrane loading & unloading and helps avoid algae formation resulting in improved membrane life.
- UV resistant PU paint on exterior body ensures excellent weather resistance & protection from various industrial chemical fumes and splashes.
- Available in end port, side port & multiple side ports configuration/s for different pressure ratings (only company to offer unique design of 1800 PSI in FRP)



Port Type	Outer Diameter (Inches)	PSI Rating	Number of Elements
Side Port - (SP)	4"	300	1
End Port - (EP)	8"	450	2
Multi Port - (MP)		600	3
		1000	4
		1200	5
		1800	6
			7
			8

### MODEL SELECTION

Model number for membrane housing of side port for 4" outer diameter having PSI rating of 450 and 6 elements, model number would be



# Product components



End Cap - 4"



End Cap-8" - SP



End Cap-8" - EP



Thrust cone



Retaining Ring-8"



Retaining Ring-4"



Spacer



Seal Plate - 8"



End Connector-4"



Membrane Adaptor-4"



Membrane Adaptor-8"



Permeate Port 8"



Saddle



Strap



# Standard Equipment, Components and Chemicals (SECC)

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KaiGO FRP/HDPE Components offers a complete set of essential elements designed for water treatment systems. Its extensive product range guarantees reliable and effective performance in various applications, ensuring the optimal functioning of water treatment systems.

- Membrane Housings
- FRP Pressure Vessels
- Electronic Dosing Pump
- HDPE Tanks
- PHE Bags
- Micron Cartridge Filters
- Diffusers, MBBR Media



Segmo Solid-Liquid Separation specializes in motion-based segregation technologies like dryers and filter presses, focusing on maximizing water recovery in processes such as Zero Liquid Discharge (ZLD) and solid concentration in the food industry. Segmo aims to reduce water footprints in relevant industries.

- Paddle dryer
- Heat Pump Dryer
- Filter press
- Screw Press
- HRSCC/Clarifier, DAF
- Centrifuge/MCF Housing
- PSF/DMF Vessels
- Thermal (MVC, ATFD, MEE)
- Packaged plants (UF, RO, STP)



Qurem Membranes & Filters takes a pioneering role in supplying filtration technologies, including UF, MBR, and RO membranes. These advancements play a crucial role in ensuring the availability of clean and drinkable water across various industrial and municipal applications.

- UF Membranes
- MBR Membranes
- RO Membranes



Konsiq Instrumentation, a leading brand in our company, provides customized, high-quality instruments for a range of industrial needs. With a focus on precision and advanced technology, our instruments deliver optimal performance and durability in modern industrial applications.

- Flowmeters
- Rotameters
- Pressure-Level (Gauge/Switch/Transmitter)
- Temperature Gauge
- Analyzers



Orroto Rotating Equipment encompasses a diverse array of critical rotating components essential for seamless industrial operations. These components significantly contribute to the efficient functioning of a broad spectrum of systems across various industries.

- Pumps – high pressure, centrifugal, axial, vacuum
- Dosing pumps (Diaphragm, Hydraulic)
- Blowers
- Centrifugal fan
- Agitators



Verlec Electrical offers a comprehensive selection of electrical components that cater to various applications. Our precision-crafted electrical products adhere to the highest standards of performance and reliability. Whether powering essential machinery or facilitating efficient electricity distribution, Verlec combines excellence with electrical expertise, contributing collectively to the optimal functioning and longevity of industrial operations.

- Panels
- Induction motors
- Cable – Power, Control, Instrumentation
- VF Drives



Chemicals are pivotal for the efficient operation of water treatment, cooling towers and boilers. Qemistro Chemicals specializes in providing specialty chemicals for industrial functions. Our comprehensive chemical solutions contribute to the efficient and prolonged functioning of water treatment, cooling towers and boilers.

- Water treatment
- Cooling towers
- Boilers
- Construction
- Dyes & pigments
- Specialized paints & coatings



Cirflo Pipe, Fittings, and Valves specializing in both metallic and non-metallic components, offer a comprehensive suite of products meticulously designed for optimal efficiency and enduring performance. This commitment to delivering reliable, high-quality pipe fittings, and valve solutions enhances the overall integrity of industrial systems.

- Metallic Pipe (MS, SS304L, SS316L, Duplex)
- Non-Metallic Pipe (UPVC, CPVC)
- Fittings
- Valves (Ball, Butterfly, Gate, Globe, Check)



Listra Mechanical Parts and Tools are pivotal in elevating operational efficiency across diverse sectors. Boasting a comprehensive product range, Listra excels in supplying essential components for a variety of industrial applications. Committed to delivering top-notch quality, reliability, and durability, Listra ensures peak performance, contributing to the seamless and prolonged functioning of machinery and systems. Precision and reliability are at the core of Listra's dedication to meeting the diverse needs of industries.

- Bearings
- Mechanical seal
- Couplings, pulleys
- Timer belts
- Fasteners, O-rings
- Tools, Inserts
- Adhesives

# Clientele



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POWERED BY **ARVIND**

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