

Blinex™

Since 1975

BLINEX FILTER - COAT PVT. LTD.

SINTERED POROUS PLASTICS | P.T.F.E. COATINGS



- Leading Manufacturer of **Sintered Porous Plastic** and **Self-Sealing Filters** for Air, Gas & Liquids
- Industry-Leading Applicator of **P.T.F.E / Fluoropolymer Anti-Corrosive** and Non-Stick Coating Solutions

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Mahakali Caves Road, Opposite Onida Factory,
Andheri (EAST), Mumbai: 400093, India.

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KIRTAN R. DHAMI
DIRECTOR (TECHNICAL & EXPORTS)



Water Filtration Chemical Filtration Air & Gas Filtration Pneumatic Silencers Powder Fluidization

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ABOUT US

50 YEARS OF ENGINEERING EXCELLENCE (1975-2025)

Company Overview

BLINEX FILTER-COAT PVT. LTD., proudly celebrates **50 years** of excellence (1975-2025) as one of India's pioneers and industry leaders in:

- ✓ Sintered Porous Plastics
- ✓ PTFE & Advanced Fluoropolymer Coatings

Established in **1975**, the company has built a strong reputation for engineering **precision, innovation,** and **long-term industrial reliability.**



» 1978 – FIRST COMPANY IN INDIA TO INTRODUCE SINTERED POROUS PLASTICS

Applications include:

- ✓ Water, Chemical & Air Filtration
- ✓ Pneumatic Silencers
- ✓ Controlled Fluid Distribution
- ✓ Powder Fluidization Systems



POLYPOR™ Sintered Porous

Precision engineered filtration media for air-gas & liquids with controlled **porosity** and consistent performance.

- ✓ Micron Range: 2µm - 80µm
- ✓ Uniform Porosity
- ✓ Low Pressure Drop
- ✓ Chemical Resistance
- ✓ Lightweight & Corrosion Free



P.T.F.E. Coating & Lining Division

Anti-corrosive, non-stick coating systems for critical industrial equipment with extended service life.

- ✓ Reactor Vessels
- ✓ Heat Exchangers
- ✓ Valve Bodies
- ✓ Fasteners
- ✓ Rollers & Process Equipment



Today, **BLINEX FILTER-COAT PVT. LTD.**, continues to be a trusted global partner,
Innovation · Quality · Engineered Performance

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SINTERED POROUS PLASTIC FILTER SOLUTIONS – POLYPOR™

- 1 Porous Plastic **Cylinders** / Tube Filters 
- 2 Porous **Filter Cartridge** for Air Dryer 
- 3 Porous Plastic **Filter Sheets** / Fluidized Tiles 
- 4 Porous Plastic **Filter Rods** 
- 5 Porous Plastic **Filter Disc** 
- 6 Porous **Filter Disc** for Battery Vent 
- 7 Sintered P.T.F.E (Poly Tetra Fluoro Ethylene) Porous **Filters** for Acids & Gases 
- 8 Porous **Airline** Filter Elements 
- 9 Porous **Pneumatic** Equipment Silencers / Mufflers 
- 10 Porous **Flux Foaming Aerator** for Wave Soldering Machine 
- 11 Yarn Oil Porous Lubricator 
- 12 Porous Plastic **Automobile** Filters 
- 13 Porous Plastic **Breather** / Vent Plug 
- 14 Porous Plastic **Filter** Hopper Cones 
- 15 Sintered Porous Precision Molded Filters 
- 16 Porous **Filter Rollers** for Storage & Release of Ink 
- 17 Sintered Porous Plastic Polyethylene **Sensor** Filters 
- 18 Porous Plastic **Carbon** Filters 
- 19 Porous Plastic **Diffusers, Aeration & Filtration** Tubes 
- 20 Porous Plastic **Filter Candles** for Multiple Filter Housing Systems 

SELF-SEALING POROUS FILTERS

FOR MEDICAL & LAB APPLICATIONS – PORSELF™

1

Self-Sealing Suction Canister Medical Filters



2

Self-Sealing Filters for Hospital Drainage Bags



3

Self-Sealing Porous Filters for Humidifier Bottles (Hospitals & Laboratories)



4

Self-Sealing Filter Tips for Disposable ESR Pipettes



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50
YEARS

1975 - 2025

Years of Excellence

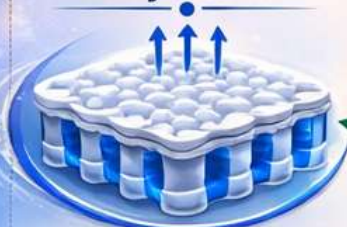
SELF-SEALING POROUS FILTERS FOR MEDICAL & LAB APPLICATIONS - PORSELF™

Self-sealing porous plastic filters act as an automatic valve, allowing air or gas to pass freely when dry, and **instantly stopping flow** when in contact with **liquids** such as **water, blood** or aqueous solutions.



How They Work

Dry State



- ① Open Pores →
- High Airflow /
- Gas Passage

Liquid Contact



- Liquid Absorbed & Swells → Pores
- Blocked →
- Creates a **Seal**

Common Applications

Medical Devices

- ✓ Suction Canister Filters
- ✓ For surgical waste collection
- ✓ Pipette Tip Filters
- ✓ Prevent aerosol contamination
- ✓ ESR Pipettes & IV Catheter Filters
- ✓ Prevent air bubbles & ensure testing accuracy

Industrial Use

- ✓ Chemical Processing
- ✓ Oil & Gas
- ✓ Wastewater Treatment



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PORSELF™ SINTERED POROUS SELF-SEALING MEDICAL FILTERS

(Sterile Air & Fluid Protection Elements)

PRODUCT OVERVIEW

PORSELF™ Sintered Porous Self-Sealing Medical Filters are precision-engineered porous plastic elements designed for sterile venting, contamination control, and controlled fluid filtration in medical and healthcare devices.



PRODUCT OVERVIEW

PORSELF™ Sintered Porous Self-Sealing Medical Filters are precision-engineered porous plastic elements designed for sterile venting, contamination control, and controlled fluid filtration in medical and healthcare devices.

Manufactured using controlled sintering technology, PORSELF™ filters provide uniform pore structure, high mechanical strength, and reliable performance in critical medical environments.

WHY SELF-SEALING MEDICAL FILTERS?

- ✓ Prevent microbial contamination
- ✓ Controlled sterile air venting
- ✓ Leak-proof integration
- ✓ High purity & non-toxic
- ✓ Low pressure drop
- ✓ Consistent porosity
- ✓ Long service Life & Low Fast service

MATERIAL OPTIONS:

- ✓ Medical Grade Polyethylene (PE)
- ✓ Medical Grade Polypropylene (PP)

MICRON RANGE:

5 - 50 µm

TYPICAL APPLICATIONS



IV Infusion Systems



Blood Collection Devices



Dialysis Equipment



Respiratory Equipment



Respiratory & Diagnostic Devices



Laboratory Diagnostic Devices

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SELF SEALING SUCTION CANISTER MEDICAL FILTERS – PORSELF™



OPERATING PRINCIPLE

- ✓ The filter is engineered from a specially formulated **liquid-responsive** porous plastic.
- ✓ During routine suction, the open pore structure enables smooth and unrestricted airflow.
- ✓ When exposed to collected fluids, the material expands and seals, forming effective barrier.
- ✓ This self-activating mechanism works without springs, valves, or external power, delivering dependable protection every time.

PRODUCT ADVANTAGES

- ✓ **Automatic Fluid Shut-Off**
Seals immediately upon liquid contact, preventing overflow and backflow into the vacuum system.
- ✓ **Reliable Airflow Control**
Maintains consistent airflow characteristics throughout surgical or clinical procedures.
- ✓ **Vacuum System Protection**
Stops fluid contamination of pipelines, pumps, and central vacuum infrastructure
- ✓ **Hygienic Single-Use Design**
Supports infection control protocols and eliminates the need for cleaning or reprocessing.
- ✓ **Chemically Stable Construction**
Resistant to bodily fluids, disinfectants, and commonly used cleaning agents.
- ✓ **Repeatable Performance**
Uniform pore distribution ensures consistent response across every filter unit.

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SELF-SEALING FILTERS FOR HOSPITAL DRAINAGE BAGS – PORSELF™



FUNCTION & WORKING PRINCIPLE

- ✓ **Normal Operation (No Liquid Contact):**
When not in contact with waste liquid, the PORSELF™ PE sintered filter allows controlled ventilation and air filtration.
- ✓ **Negative pressure from the hospital suction system draws clinical waste liquid into the bottle efficiently**
- ✓ **During this phase, the filter captures dust, bacteria, and airborne contaminants, effectively reducing the risk of cross-infection.**
- ✓ **Automatic Self-Sealing (Liquid Contact):**
When the suction bottle becomes full and waste liquid reaches the filter, PORSELF™ self-sealing PE sintered filter activates instantly and stops overflow or backflow immediately.

KEY ADVANTAGES OF PORSELF™

- ✓ **Instant, automatic self-sealing on liquid contact.**
- ✓ **High-efficiency bacterial and aerosol filtration**
- ✓ **Prevents contamination of hospital suction pipelines**
- ✓ **Provides reliable pressure resistance after sealing**
- ✓ **Protects central vacuum systems from secondary pollution**
- ✓ **Enhances patient and healthcare worker safety**

TYPICAL MEDICAL APPLICATIONS

- ✓ **Medical waste liquid suction canisters**
- ✓ **Hospital central vacuum and suction systems.**
- ✓ **ICU, OT, and ward suction units**
- ✓ **Diagnostic and clinical fluid management**

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SELF-SEALING POROUS FILTERS for Humidifier Bottles – **PORSELF™**



PRODUCT OVERVIEW

PORSELF™ by BLINEX is a purpose-designed **self-sealing** porous filter family engineered for humidifier bottles used in clinical and laboratory environments. Combining Blinex's 50-year expertise in sintered porous plastics and fluoropolymer coatings, **PORSELF™** prevents liquid carry-over, protects downstream equipment and patient environments, and **preserves sterility** — while keeping humidifier performance steady.

TYPICAL APPLICATIONS

- ✓ Hospital bedside and central humidifier bottles (oxygen therapy, ventilators, CPAP/BIPAP humidifiers)
- ✓ Laboratory humidification systems and gas-delivery bottles.
- ✓ Respiratory therapy devices where liquid ingress protection is critical
- ✓ OEM integration into medical devices and laboratory equipment

KEY BENEFITS

- ✓ **Automatic liquid shut-off** (self-sealing). When the media comes into contact with liquid, **PORSELF™** rapidly forms a seal to stop fluid passage — eliminating spills, backflow and accidental contamination.
- ✓ **Infection-control friendly:** Helps reduce risk of cross-contamination in respiratory and humidification systems by acting as a barrier to bulk liquid and particulate ingress.
- ✓ **Reliable airflow & humidification** Engineered pore structure preserves gas/vapor flow while controlling droplets — so humidification performance is maintained.
- ✓ **Durable & serviceable options:** Available as single-use (disposable) or robust reusable elements that tolerate standard cleaning or sterilization methods (autoclave / chemical clean options depend on chosen material)

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PORSELF™

SELF-SEALING ESR FILTER TIPS

(For Accurate Erythrocyte Sedimentation Rate Testing)



Used in
**PATHOLOGY
LABORATORIES**

PRODUCT OVERVIEW

PORSELF™ Self-Sealing ESR Filter Tips are precision-engineered sintered porous elements **designed for controlled fluid separation** and **reliable ESR** (Erythrocyte Sedimentation Rate) testing in diagnostic laboratories.

The self-sealing porous structure allows air to pass while preventing liquid leakage, ensuring accurate measurement and safe handling.

Manufactured using medical-grade sintered polymer technology, these tips provide specific complements and high reliability in clinical environments.

KEY FEATURES

- ✓ Self-Sealing Porous Structure
- ✓ Prevents Liquid Leakage
- ✓ Allows Controlled Air Venting
- ✓ Consistent ESR Measurement
- ✓ High Dimensional Accuracy
- ✓ Medical Grade Material
- ✓ Sterilizable (ETO Compatible*)
- ✓ Low Extractables

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Water Filtration

Chemical Filtration

Air & Gas Filtration

Filter Candles

Powder Fluidization

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