FILTER HOUSINGS

Plastic Cartridge Filter Housing

Three-part cartridge filter housing (clear housing) made up of a head, a transparent plastic bowl and a sealing gasket. Cartridge loading is monitored without stopping the line; used on industrial water lines, for protection upstream of RO/UF and for process pre-filtration.



CARTRIDGE LENGTH	INLET / OUTLET	STANDARD HOUSING	HOUSING TYPES
5″·10″·20″	**1/4″–1″**	**8 bar**	**4 types**
Standard and Big diameter	Muff or nipple	Max. 45 °C · NBR gasket	Standard · Pressure · Heat · Acid

Technical specifications

Construction	Head (cap) · Transparent plastic bowl · Sealing gasket
Housing types	Standard · Pressure-Resistant · Heat-Resistant · Acid-Resistant
Cartridge length	5″ · 10″ · 20″
Diameter options	Standard (cartridge OD ~2.5″–2.875″) · Big (cartridge OD ~4.5″)
Inlet / outlet size	1/4″ · 3/8″ · 1/2″ · 3/4″ · 1″
Connection type	Muff (female thread) · Nipple (male thread)
Thread material	Plastic thread · Metal thread
Cartridge end type	DOE (gasket, flat end) · SOE (O-ring)
Standard housing gasket	NBR
Standard housing max. pressure	8 bar
Standard housing max. temperature	45 °C
Other housing types	Max. pressure, temperature and chemical compatibility set with our technical team per application
Compatible cartridges	Melt blown · String-wound · Pleated · Activated carbon · PP washable · Stainless steel · Special media
Installation	Wall bracket · 5–10 cm service clearance below the bowl
Do not use	Where there is a risk of freezing or direct sunlight

Length and diameter options

OPTION	TYPICAL USE
5″	Machine-mounted, sampling, measurement, panels
10″	Process pre-filtration, RO/UF protection
20″	Main supply, continuously running lines
Standard diameter	Low–medium flow, single equipment
Big diameter	High flow, heavy particle load, plant inlet

A Big housing takes a Big cartridge of the same length; a standard cartridge bypasses in a Big bowl.

Housing types

Standard
Cold, chemical-free water; NBR gasket, max. 8 bar, 45 °C.

Pressure-Resistant
Above 8 bar or fluctuating; pump, booster outlets.

Heat-Resistant
Above 45 °C; hot process water, boiler feed.

Acid-Resistant
Acids and chemicals; plating baths, dosing.

Quick selection

REQUIREMENT	RECOMMENDED COMBINATION
Upstream of RO/UF membranes	Standard housing · 10″/20″ · 3/4″–1″ · O-ring cartridge
Main line after a pump / booster	Pressure-Resistant · 20″ Big · 1″ · metal thread
Boiler feed, hot process water	Heat-Resistant housing · size to suit the line
Galvanising, plating, chemicals	Acid-Resistant · plastic thread · size to suit the line
Well / source water, heavy sand	Standard housing · 20″ Big · 1″ · pleated cartridge
Analyser and sampling line	Standard housing · 5″/10″ Standard · 1/4″–3/8″

Use and maintenance

- Release line pressure before installation; set the IN / OUT arrows on the head to the flow direction.
- Wrap threads with 5–8 turns of PTFE tape; hand-tighten, then at most a quarter turn more with a wrench.
- Open the valve slowly, bleed the air and watch connections for leaks for 10 minutes.
- Clean the bowl only with lukewarm water and mild detergent; use only the housing wrench.
- If the bowl shows cracks, clouding or impact marks, replace it without delay.

Values in this data sheet are typical and for information only. Product selection should be made with our engineers based on process fluid, temperature, pressure and flow conditions. Proses T.İ.M. reserves the right to change product specifications without prior notice.

PROSES T.İ.M.®
Proses Ticaret İmalat Mühendislik Ltd. Şti.
Musa Gündüz Cad. No:14 Taşköprü, Çiftlikköy / Yalova, Türkiye

+90 226 353 35 70 · Head office
sales@prosestim.com
prosestim.com/en

Product page