

# PBTL Series

MELT-BLOWN CARTRIDGES  
LIQUID FILTRATION  
DIAMETER 4.5" (116 mm)



## MAIN APPLICATIONS:

- PETROCHEMICAL
- OIL & GAS
- POWER GENERATION
- STEEL MILL
- GENERAL INDUSTRY

## CHARACTERISTICS:

- Specifically designed for liquids filtration
- Ideal solution for critical application such as:
  - LPG filtration to remove "black powder" from pipeline
  - Liquid hydrocarbons filtration
  - Liquid solvents filtration
- Large diameter to permit high flow-rate
- Depth filtration
- 100% pure polyester filter media
- Polyester inner perforated core with stainless steel spring
- Graded density filtration matrix to maximize the dirt holding capacity
- High dirt holding capacity
- Resistant to contamination unloading even at high Delta-P
- Filtration direction out to in
- Seven filtration rating available
- Wide range chemical compatibility
- Polymeric or stainless steel end caps available

# ASCO FILTRI

a **mott** company

# PBTL Series

**MELT-BLOWN CARTRIDGES**  
**LIQUID FILTRATION**  
**DIAMETER 4.5" (116 mm)**

## TECHNICAL DATA

**MAX. WORKING TEMPERATURE**  
120 °C max.

**DIFFERENTIAL PRESSURE**  
*Cartridge replacement:*  
2.0 bar @ 25 °C  
*Max. allowable:*  
3.5 bar @ 25 °C

**CONSTRUCTION MATERIAL**  
*Filter media:*  
Polyester

*Inner core:*  
Polyester + SS spring

*End caps:*  
Polyester  
Nylon + 30% fiberglass  
304-SS  
316-SS

*Gaskets:*  
Buna-N  
Viton

**DIMENSIONS**  
OD 116 - ID 70 mm

*Length:*  
20"  
36"  
40"

**FILTERING AREA**  
20" 0.17 m<sup>2</sup>  
36" 0.31 m<sup>2</sup>  
40" 0.35 m<sup>2</sup>

## Characteristics:

The PBTL series cartridges are specifically designed for the filtration of liquid solvents and hydrocarbons, as pre-filters to protect from premature clogging the most expensive cartridges installed in liquid/liquid coalescer filters, or for the solids removal to protect catalyst in fixed bed reactors.

The large diameter construction provides high liquid flow rates with consequent reduction of the filter dimensions.

The PBTL series cartridges are fabricated with pure polyester melt-blown with controlled graded density filter matrix to enhance dirt holding capacity even in the presence of very fine particles.

In addition, the melt-blown fabrication technology allows to obtain a very stable thermo welding of the microfibrils at the contact points which results in a high filtration precision and stability of the filter matrix which allows to obtain better performance in solids retention and eliminate the risk that the collected solids can be released with the differential pressure increasing during the operation.

The cartridges are supported by a perforated polyester core and an additional internal stainless steel spring to increase resistance to differential pressure.

## Flow-rate / Delta-P:

Filtration rating	Flow-rate (m <sup>3</sup> /h) vs. Delta-P			
	0.05 bar	0.07 bar	0.1 bar	0.15 bar
001	5	7	10	15
003	6	8	12	18
005	7	10	15	22
010	10	14	20	30
025	12	17	25	37
050	15	21	30	45
075	16	23	32	48

*Water flow-rate (m<sup>3</sup>/h) for 40" length cartridges with 1 cP viscosity.*

*For different liquids DP = Delta-P x liquid viscosity.*

*Flow-rate valid for clean water, adjust the flow-rate according to the application.*

## Max. working temperature:

End caps material	Continuous	Short period	Water presence
Polyester	115 °C	140 °C	80 °C
Nylon + 30% GF	120 °C	140 °C	80 °C
Stainless steel	120 °C	140 °C	120 °C

**Contact us for any further information.**

We reserve the right to change the data of this specification without notice.

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