

PTFE Membranes

Grades & Dimensions

PTFE porous membranes are manufactured from a pure PTFE. They have a good strength, but remain flexible for easy installation. PTFE membranes extremely inert and have very low absorption levels.

Microscopic pores in the membrane allow the gas to flow through easily, but even the smallest liquid aerosols are prevented. The high surface tension of the liquid molecules cause them to be formed tightly together making them too large to fit through the pores of the membrane.

Standard Sizes

PTFE membranes are available in a wide range of standard diameters. These are based on traditional industry standard sizes and allow the elements to be installed in other proprietary equipment.

MT.19.□ MT.33.□ MT.47.□ MT.61.□ MT.89.□ MT.101.□

Replace the □ in the part numbers shown with the grade selected from the tables below.

Gas Applications

Grade	Type	Pore Size	Thickness
M1	Hydrophobic	0.1 µm	50 µm
M2	Hydrophobic	0.8 µm	50 µm
M3	Hydrophobic & Oleophobic	0.1 µm	50 µm
M4	Hydrophobic & Oleophobic	0.8 µm	50 µm

Liquid/Liquid Applications

The principles are the same as for the gas application membranes - the higher surface tension of the water molecules cause them to be formed tightly together making them too large to fit through the pores of the membrane.

The M8 grade has a special support layer on the reverse of the membrane to increase the maximum pressure drop.

To ensure water is removed from the liquid hydrocarbon stream the contact time with the membrane should be maximised and the SML housings feature a special flow-path to do this.

Liquid/Liquid Applications

Grade	Type	Pore Size	Thickness
M8	Hydrophobic with Support Layer	0.8 µm	150 µm

Special Sizes

Special size membranes can also be manufactured in a range of different diameters.

Please enquire with any specific requirements.

