

About Us

Smart Membrane Solutions (SMS) are Membrane Filtration Specialists in the Dairy Industry with the core purpose to 'Put Process Managers at Ease'.

We have rapidly grown from custom design and engineering membrane filtration components for the dairy industry, into a full Membrane Filtration Original Equipment Manufacturer (OEM). This includes design and build of new turnkey membrane systems and shell and tube heat exchangers, to upgrading and optimising existing filtration systems. To further complement this, SMS now offer full membrane sales and aftersales services, plant audits and specialist training for your membrane operations.

Reach out to our friendly team and let us take care of all your membrane needs.

More than 10 years application experience and independently tested to international standards verify products are suitable for food contact.



- Smart Membrane Solutions Ltd.
PO Box 148
Rolleston 7643
- +64 3 741 1808
- info@smartmembranesolutions.co.nz
- www.smartmembranesolutions.co.nz



Smart Membrane Solutions
Putting Process Managers at Ease

Spiral Wound Membrane Accessories



Lip Seals



Removal Tools



Permeate Hoses



Blank End Plugs (BEP)



Anti-Telescoping Devices (ATD)

Contact Smart Membrane Solutions:

- +64 3 741 1808
- info@smartmembranesolutions.co.nz
- PO Box 148, Rolleston 7643, New Zealand
- www.smartmembranesolutions.co.nz



Lip Seals

- ✖ ORANGE VITON – recommended for chlorinated systems, specifically UF and MF applications
- ✖ BLACK EPDM – recommended for non-chlorinated systems, specifically RO and NF applications
- ✖ Small Seal to suit permeate tube internal diameter 0.830"
- ✖ Large Seals to suit permeate tube internal diameters 1.125" and 1.138"

Membrane, ATD and BEP Removal Tools

Tools to ensure the safe removal of membranes and anti-telescopic devices from your plant, including:



- ✖ Housing End Cap Tool, Membrane Push Rod Tool and Pig Membrane Removal Tool 6.3" and 8.0" ATD Removal Tool and BEP Removal Tool
- ✖ Use of Removal Tools eliminates the risk of damage to your plant, membranes and ATD's Makes the removal of parts much safer than using screw drivers
- ✖ ATD Removal Tool suitable for 6.3" and 8.0" Polysulfone and Stainless Steel ATDs
- ✖ All tools are stored in a tough waterproof case so that they can be kept in wet areas for easy availability. The case has wheels for safe transport around the factory
- ✖ Tools are designed for easy use



Permeate Hoses

- ✖ Hygienic sample point, enabling the safe identification of vessels where losses are apparent
- ✖ Flexible so the plant can be re-assembled with ease after maintenance or plant inspection
- ✖ Available in two lengths, 300mm and 450mm. Custom lengths can be made to order (MOQ applies)
- ✖ Available in two connection sizes, 1.5" or 2.0" Tri-Clover Ferrule, 25mm (1") internal diameter hose
- ✖ Max bend radius 130mm, max work pressure 6 bar, max temperature 60°C



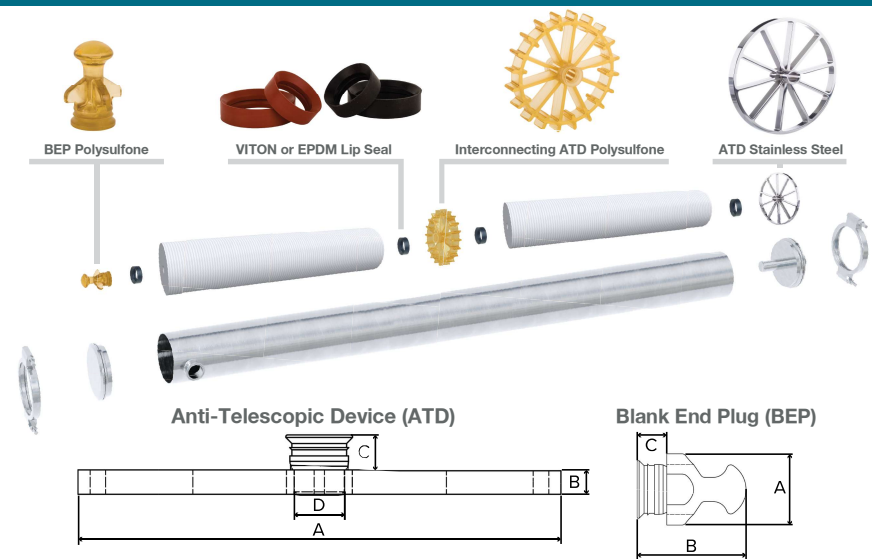
Anti-Telescopic Devices (ATD)

- ✖ Designed to ensure full load support to membrane while maintaining maximum flow to the membrane and lip seal surfaces
- ✖ Available in Polysulfone or 316 Stainless Steel
- ✖ Three sizes to suit 3.8", 6.3" or 8.0" membranes
- ✖ Seal profiles to suit permeate tube internal diameters: 0.830", 1.125" and 1.138"
- ✖ Stainless Steel ATDs can be custom made to suit any membrane outside diameter or any thickness



Blank End Plugs (BEP)

- ✖ Designed to ensure maximum flow to the membrane and lip seal surfaces
- ✖ Available in Polysulfone or 316 Stainless Steel
- ✖ Small BEP to suit Permeate Tube Internal Diameter 0.830"
- ✖ Large BEP to suit Permeate Tube Internal Diameter 1.125" and 1.138"



Product Details

Part Code	Description	Permeate Tube ID (inches)	Dimensions (mm/inches)			
			A	B	C	D
38-L-0830-IC-PS	3.8" Polysulfone ATD Interconnector	0.830	96/3.78	13/0.51	18/0.71	11/0.43
38-L-0830-IC-ST06	3.8" Stainless Steel ATD Interconnector	0.830	96/3.78	6/0.24	16/0.63	10.5/0.41
S-L-BEP	Small Polysulfone Blank End Plug	0.830	27/1.06	53/2.08	16/0.63	n/a
S-L-BEP-ST	Small Stainless Steel Blank End Plug	0.830	27/1.06	53/2.08	16/0.63	n/a
63-L-1138-IC-PS	6.3" Polysulfone ATD Interconnector	1.138	160/6.29	24/0.94	16/0.63	19/0.75
63-L-1138-IC-ST08	6.3" Stainless Steel ATD Interconnector	1.138	160/6.29	8/0.31	15/0.59	19/0.75
80-L-1125-IC-PS	8.0" Polysulfone ATD Interconnector	1.125	201/7.91	26/1.02	15/0.59	18/0.71
80-L-1125-IC-ST10	8.0" Stainless Steel ATD Interconnector	1.125	201/7.91	10/0.39	15/0.59	19/0.75
80-L-1138-IC-ST10	8.0" Stainless Steel ATD Interconnector	1.138	201/7.91	10/0.39	15/0.59	19/0.75
L-L-BEP	Large Polysulfone Blank End Plug	1.125 & 1.138	38/1.49	53/2.08	15/0.59	n/a
L-L-BEP-ST	Large Stainless Steel Blank End Plug	1.125 & 1.138	38/1.49	53/2.08	15/0.59	n/a
S-L-VITON	Small Orange VITON Seal	0.830				
S-L-EPDM	Small Black EPDM Seal	0.830				
L-L-VITON	Large Orange VITON Seal	1.138				
L-L-EPDM	Large Black EPDM Seal	1.125				
Part Code	Description	Length (mm)	To suit Tri-Clover Ferrule Size (inches)			
1.5-TRI-BKSP-25-300	Flexible Permeate Hose with sample point	300	1.5			
1.5-TRI-BKSP-25-450	Flexible Permeate Hose with sample point	450	1.5			
2.0-TRI-BKSP-25-300	Flexible Permeate Hose with sample point	300	2.0			
2.0-TRI-BKSP-25-450	Flexible Permeate Hose with sample point	450	2.0			