Ro Membrane Housing/Pressure Vessel

D



FRP Membrane Housing/Pressure Vessel

Membrane pressure vessels characteristic:

- Adopt imported material to improve the anti-wearable property
- Adopt special processing technology to make the inside of the products more smooth
- Multi-ports are available according to customer requirements for easy installation
- UMK series adopt upscale automobile baking varnish craft to ensure the smoothness and brightness of the products
- Outstanding corrosion resistance and anti-aging property;Well heat-insulting property and anti-Oxidation property

Spare parts:

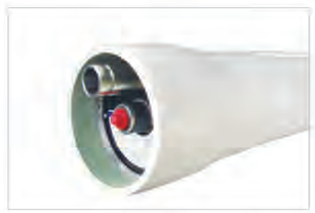
- End plate adopts aerial processing technique, efficiently improving the intensity and capacity to resist deformation
- Seal kit adopts special structure and technique,efficiently enhancing the leak tightness
- End-plate made of aluminum alloy,enhance the ability to resist deformation
- Seal kit adopts environmental material to assure the leak tightness and high water quality, meanwhile to improve its anti-aging capacity
- Inlet and outlet are made of high quality stainless stee 316L materials, which have a strong ability to resistance corrosion, easy to disassembly, assembly, maintenance

Quality Assurance:

- ASME Standard design
- Burst test with 6 times of its design pressure
- 100,000 times cycle test
- 100% quality assurance test with 1.1 times stage elevation of hydrostatic pressure

UMK 80 E (S) 300 - 6

- UMK — Brand Name
- 80 — Membrane Housing Diameter:8″
- E (S) — Feed/Concentrate Port Type End Port “E” (Side Port “S”)
- 300 — Membrane Housing Max. Operating Pressure: 300PSI
- 6 — Membranes of Element Inside







8″PRESSURE VESSEL （SIDE PORT）

ITEM NO.	PSI(MPa)	Connection	Membrane size	Number of elements
UMK80S150	150(1.0)	SIDE	8040	1-8
UMK80S300	300(2.1)	SIDE	8040	1-8
UMK80S450	450(3.1)	SIDE	8040	1-8
UMK80S600	600(4.1)	SIDE	8040	1-8
UMK80S1000	1000(6.9)	SIDE	8040	1-8
UMK80S1200	1200(8.4)	SIDE	8040	1-8

8″PRESSURE VESSEL （END PORT）

ITEM NO.	PSI(MPa)	Connection	Membrane size	Number of elements
UMK80E150	150(1.0)	END	8040	1-8
UMK80E300	300(2.1)	END	8040	1-8
UMK80E450	450(3.1)	END	8040	1-8
UMK80E600	600(4.1)	END	8040	1-8
UMK80E1000	1000(6.9)	END	8040	1-8
UMK80E1200	1200(8.4)	END	8040	1-8

4″PRESSURE VESSEL （SIDE PORT）

ITEM NO.	PSI(MPa)	Connection	Membrane size	Number of elements
UMK40S150	150(1.0)	SIDE	4040	1-4
UMK40S300	300(2.1)	SIDE	4040	1-4
UMK40S450	450(3.1)	SIDE	4040	1-4
UMK40S600	600(4.1)	SIDE	4040	1-4
UMK40S1000	1000(6.9)	SIDE	4040	1-4

4″PRESSURE VESSEL （END PORT）

ITEM NO.	PSI(MPa)	Connection	Membrane size	Number of elements
UMK40E150	150(1.0)	END	4040	1-4
UMK40E300	300(2.1)	END	4040	1-4
UMK40E450	450(3.1)	END	4040	1-4
UMK40E600	600(4.1)	END	4040	1-4
UMK40E1000	1000(6.9)	END	4040	1-4

Stainless Steel Membrane Housing/Pressure Vessel

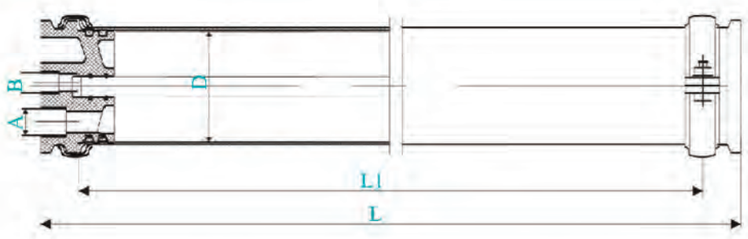
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UMK1-RO40 Stainless Steel RO Membrane Housing



- Material:SUS304, SUS316L;
- Material of end cap: ABS; SUS304; SUS316L;
- Max working pressure 250Psi;
- Polished or brushing extermal surface.

Standard Specifications



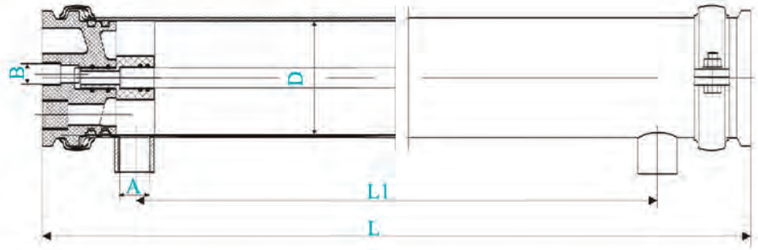
Model	L(mm)	L1(mm)	D(mm)	A(in)	B(out)
UMK1-2514	417	363	φ 62	1/4″	1/4″
UMK1-2521	594	540	φ 62	3/8″	1/4″
UMK1-2540	1082	1024	φ 62	3/8″	3/8″
UMK1-4014	427	367	φ 102	1/2″	1/2″
UMK1-4021	605	545	φ 102	1/2″ 3/4″	1/2″
UMK1-4040	1088	1028	φ 102	1/2″ 3/4″	1/2″
UMK1-4080	2104	2044	φ 102	3/4″	1/2″
UMK1-40120	3120	3060	φ 102	3/4″	1/2″
UMK1-40160	4136	4076	φ 102	3/4″	1/2″

UMK2-RO40 Stainless Steel RO Membrane Housing



- Material:SUS304, SUS316L;
- Material of end cap: ABS; SUS304; SUS316L;
- Max working pressure 250Psi;
- Polished or brushing extermal surface.

Standard Specifications



Model	L(mm)	L1(mm)	D(mm)	A(in)	B(out)
UMK2-2521	655	511	φ 62	1/2″	1/4″
UMK2-2540	1136	994	φ 62	1/2″	3/8″
UMK2-4021	668	515	φ 102	3/4″	1/2″
UMK2-4040	1148	998	φ 102	3/4″	1/2″
UMK2-4080	2164	2014	φ 102	3/4″	1/2″
UMK2-40120	3180	3030	φ 102	3/4″	1/2″
UMK2-40160	4196	4046	φ 102	3/4″	1/2″

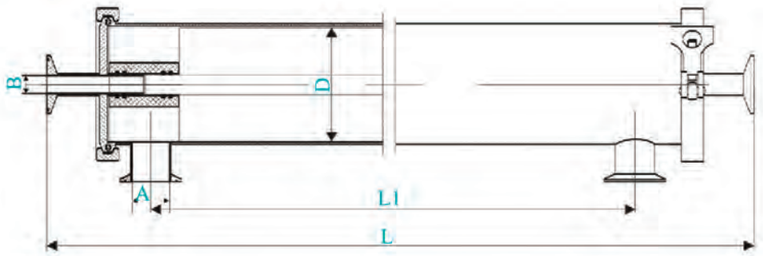
Stainless Steel Membrane Housing/Pressure Vessel

UMK3-RO40 Stainless Steel RO Membrane Housing



- Material:SUS304, SUS316L;
- Max working pressure 400Psi;
- Polished or brushing external surface.

Standard Specifications



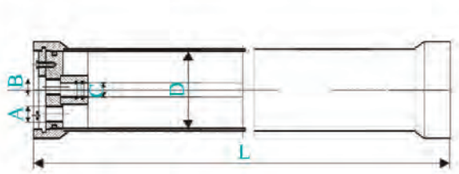
Model	L(mm)	L1(mm)	D(mm)	A(in)	B(out)
UMK3-4040	1176	1010	φ 102	1″	3/4″
UMK3-4080	2192	2026	φ 102	1″	3/4″
UMK3-40120	3208	3042	φ 102	1 1/4″	3/4″
UMK3-40160	4224	4058	φ 102	1 1/2″	3/4″

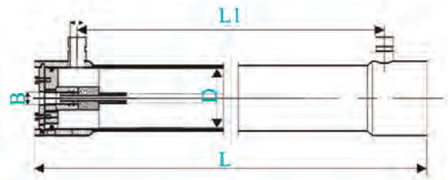
UMK4-RO40 Stainless Steel RO Membrane Housing



- Material:SUS304, SUS316L;
- Max working pressure 1000Psi;
- Polished or brushing external surface.

Standard Specifications



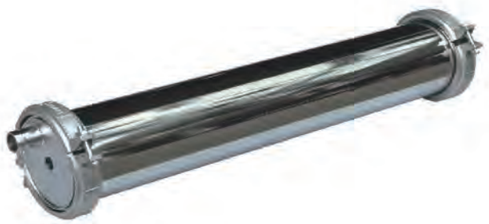


Model	L(mm)	C(mm)	D(mm)	A(in)	B(out)
UMK4-4021-E	612	φ19.5	φ 102	1/2″ 3/4″	1/2″
UMK4-4040-E	1094	φ19.5	φ 102	1/2″ 3/4″	1/2″
UMK4-4080-E	2110	φ19.5	φ 102	3/4″	1/2″
UMK4-40120-E	3126	φ19.5	φ 102	3/4″	1/2″
UMK4-40160-E	4142	φ19.5	φ 102	3/4″	1/2″

Model	L(mm)	C(mm)	D(mm)	A(in)	B(out)
UMK4-2540-S	1162	1034	φ62	1/2″ -3/4″	1/2″
UMK4-4021-S	730	602	φ 102	3/4″ -1″	1/2″
UMK4-4040-S	1212	1084	φ 102	3/4″ -1″	1/2″
UMK4-4080-S	2228	2100	φ 102	3/4″ -1″	1/2″
UMK4-40120-S	3244	3116	φ 102	3/4″ -1″	1/2″
UMK4-40160-S	4260	4132	φ 102	3/4″ -1″	1/2″

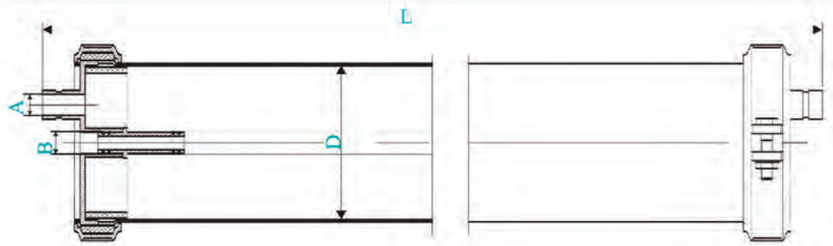
Stainless Steel Membrane Housing/Pressure Vessel

UMK5-RO80 Stainless Steel RO Membrane Housing



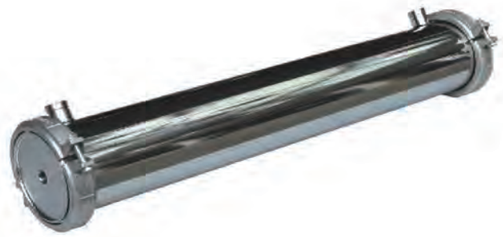
- Material:SUS304, SUS316L;
- Max working pressure 300Psi;
- Polished or brushing external surface.

Standard Specifications



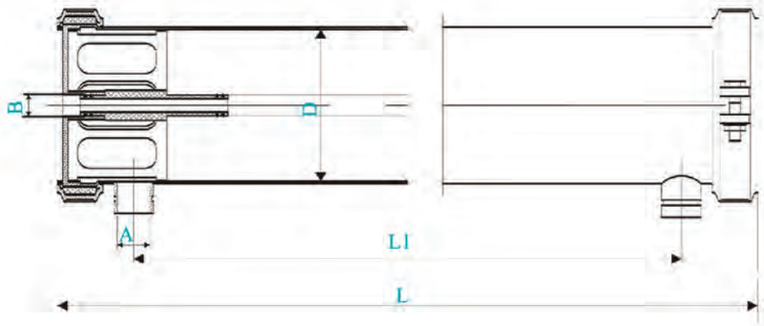
Model	L(mm)	D(mm)	A(in)	B(out)
UMK5-8040	1214	φ203	1- 1/2″	1″
UMK5-8080	2230	φ203	1- 1/2″	1″
UMK5-80120	3246	φ203	1- 1/2″	1″
UMK5-80160	4262	φ203	1- 1/2″	1″
UMK5-80200	5278	φ203	1- 1/2″	1″
UMK5-80240	6294	φ203	1- 1/2″	1″

UMK6-RO80 Stainless Steel RO Membrane Housing



- Material:SUS304, SUS316L;
- Max working pressure 300Psi;
- Polished or brushing external surface.

Standard Specifications



Model	L(mm)	L1(mm)	D(mm)	A(in)	B(out)
UMK6-8040	1288	1101	φ203	1 1/2″	1″
UMK6-8080	2304	2117	φ203	1 1/2″	1″
UMK6-80120	3320	3133	φ203	1 1/2″	1″
UMK6-80160	4336	4149	φ203	1 1/2″	1″
UMK6-80200	5352	5165	φ203	1 1/2″	1″
UMK6-80240	6368	6181	φ203	1 1/2″	1″

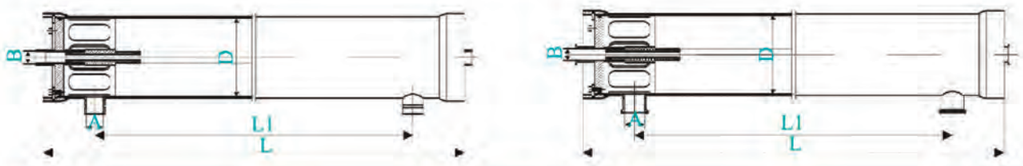
Stainless Steel Membrane Housing/Pressure Vessel

UMK7-RO80 Stainless Steel RO Membrane Housing



- Material:SUS304, SUS316L;
- Max working pressure 600Psi;
- Polished or brushing external surface.

Standard Specifications



Model	L(mm)	L1(mm)	D(mm)	A(in)	B(out)
UMK7-8040-V	1359	1119	φ203	1- 1/2″ -3″	1″
UMK7-8080-V	2375	2135	φ203	1- 1/2″ -3″	1″
UMK7-80120-V	3391	3151	φ203	1- 1/2″ -3″	1″
UMK7-80160-V	4407	4167	φ203	1- 1/2″ -3″	1″
UMK7-80200-V	5423	5183	φ203	1- 1/2″ -3″	1″
UMK7-80240-V	6439	6199	φ203	1- 1/2″ -3″	1″

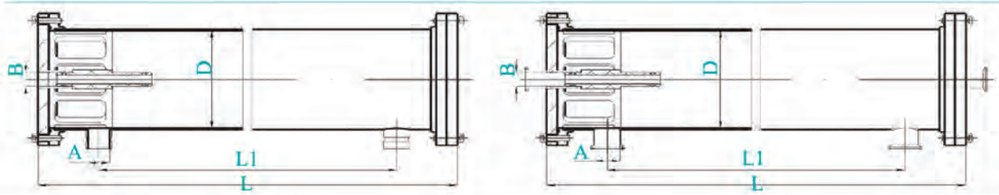
Model	L(mm)	L1(mm)	D(mm)	A(in)	B(out)
UMK7-8040-T	1359	1119	φ203	1- 1/2″ -3″	1″ -1/2″
UMK7-8080-T	2375	2135	φ203	1- 1/2″ -3″	1″ -1/2″
UMK7-80120-T	3391	3151	φ203	1- 1/2″ -3″	1″ -1/2″
UMK7-80160-T	4407	4167	φ203	1- 1/2″ -3″	1″ -1/2″
UMK7-80200-T	5423	5183	φ203	1- 1/2″ -3″	1″ -1/2″
UMK7-80240-T	6439	6199	φ203	1- 1/2″ -3″	1″ -1/2″

UMK8-RO80 Stainless Steel RO Membrane Housing



- Material:SUS304, SUS316L;
- Max working pressure 600Psi;
- Polished or brushing external surface.

Standard Specifications



Model	L(mm)	L1(mm)	D(mm)	A(in)	B(out)
UMK8-8040-V	1301	1071	φ209	1 1/2″ -2″	1″
UMK8-8080-V	2317	2087	φ209	1 1/2″ -2″	1″
UMK8-80120-V	3333	3103	φ209	1 1/2″ -2″	1″
UMK8-80160-V	4349	4119	φ209	1 1/2″ -2″	1″
UMK8-80200-V	5365	5135	φ209	1 1/2″ -2″	1″
UMK8-80240-V	6381	6151	φ209	1 1/2″ -2″	1″

Model	L(mm)	L1(mm)	D(mm)	A(in)	B(out)
UMK8-8040-T	1301	1071	φ209	1 1/2″ -2″	1.5″
UMK8-8080-T	2317	2087	φ209	1 1/2″ -2″	1.5″
UMK8-80120-T	3333	3103	φ209	1 1/2″ -2″	1.5″
UMK8-80160-T	4349	4119	φ209	1 1/2″ -2″	1.5″
UMK8-80200-T	5365	5135	φ209	1 1/2″ -2″	1.5″
UMK8-80240-T	6381	6151	φ209	1 1/2″ -2″	1.5″