

8" FRP Membrane Housing Contents

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8" FRP membrane housing

- ☆ Composite Construction for Best Chemical Compatibility & Corrosion Resistance.
- ☆ Smooth Inner Wall, Unique Mirror Finish ID.
- ☆ Beautiful & Attractive Appearance.
- ☆ Length From 1 Element to 8 Elements.
- ☆ Adapters, Interconnectors & Mounting Clamps Available.
- ☆ Inlet & Outlet, Size & Quantity Can be Selected.
- ☆ Certified by ASME, ISO9001, ISO14001 and GB/T2800.



Technical Specification

Material: Fiberglass and epoxy.

Working Pressure: 150–1800 PSI.

Operating Temperature: -7 °C–49 °C.

Connection: End port, side port optional.

Operating pH Range: 3–11.

Cleaning pH Range: 2–12 (≤ 30 min).

Test

Burst Test : 6 times of its design pressure.

Cycle Test: 100000 times.

Hydraulic Test: 100% quality assurance test with 1.2 times stage elevation.

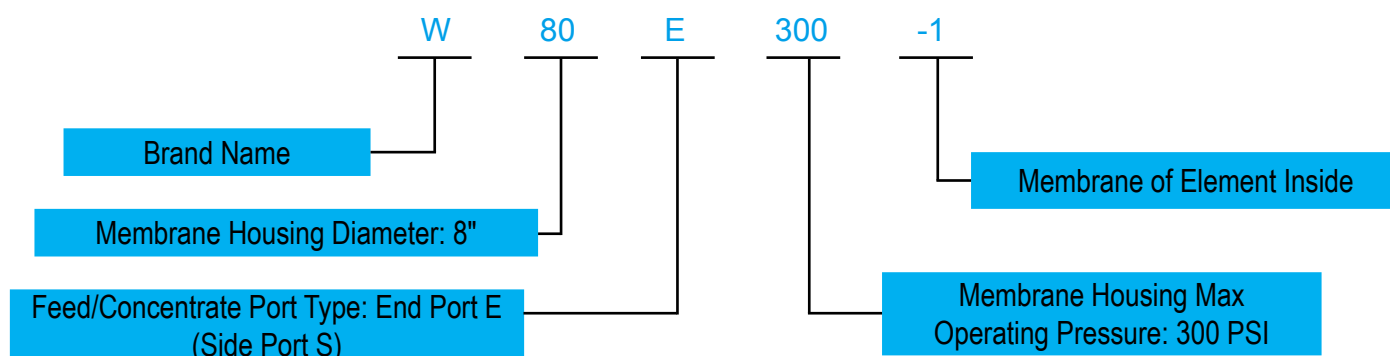
Barcol Hardness Test: Repeated once every 1.5 meters.

Test every membrane housing, not sampling.



Explanation Model

Explanation of Codes of Winder Membrane Pressure Vessels



End Entry Specification

Model No.	Design Pressure (PSI)	Operating Temperature	Feed Port (inch)	Permeate Port (inch)	Connection	Element Length
W80E150	150	-10 °C–49 °C	DN40 1.5"	1" NPTF	End port	40" × (1–8)
W80E300	300	-10 °C–49 °C	DN40 1.5"	1" NPTF	End port	40" × (1–8)
W80E450	450	-10 °C–49 °C	DN40 1.5"	1" NPTF	End port	40" × (1–8)
W80E600	600	-10 °C–49 °C	DN40 1.5"	1" NPTF	End port	40" × (1–8)
W80E1000	1000	-10 °C–49 °C	DN40 1.5"	1" NPTF	End port	40" × (1–8)
W80E1200	1200	-10 °C–49 °C	DN40 1.5"	1" NPTF	End port	40" × (1–8)
W80E1500	1500	-10 °C–49 °C	DN40 1.5"	1" NPTF	End port	40" × (1–8)
W80E1800	1800	-10 °C–49 °C	DN40 1.5"	1" NPTF	End port	40" × (1–8)

End Entry Components



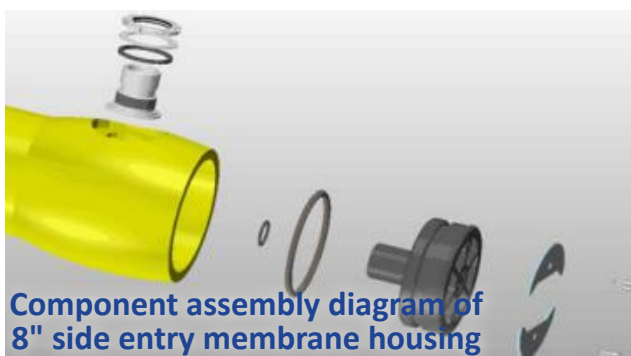
Serial-Number	Description	Material
①	Permeate port	ABS
②	Three turns locking ring	SA-479M F316L
③	Permeate retaining ring	EPDM 512
④	F/C Port	SS304
⑤	Bearing Plate	SB-209, 6061-T651
⑥	Head Seal	PF062-3
⑦	Head Seal O Ring	EPDM 512
⑧	Adaptor	ABS CHIMEI 757K
⑨	Adaptor O Ring	EPDM 512
⑩	Head Seal Ring	EPDM 512
⑪	Thrust Cone	PF062-3

※ **Note:** Do not install thrust cone at feed port.

Side Entry Specification

Model No.	Design Pressure (PSI)	Operating Temperature	Feed Port (inch)			Permeate Port (inch)	Connection	Element Length
W80S150	150	-10 °C–49 °C	DN40 1.5"/DN50 2" /DN65 2.5"	DN80 3"	DN100 4"	1" NPTF	Side port	40" × (1–8)
W80S300	300	-10 °C–49 °C	DN40 1.5"/DN50 2" /DN65 2.5"	DN80 3"	DN100 4"	1" NPTF	Side port	40" × (1–8)
W80S450	450	-10 °C–49 °C	DN40 1.5"/DN50 2" /DN65 2.5"	DN80 3"	DN100 4"	1" NPTF	Side port	40" × (1–8)
W80S600	600	-10 °C–49 °C	DN40 1.5"/DN50 2" /DN65 2.5"	DN80 3"	-	1" NPTF	Side port	40" × (1–8)
W80S1000	1000	-10 °C–49 °C	DN40 1.5"/DN50 2" /DN65 2.5"	DN80 3"	-	1" NPTF	Side port	40" × (1–8)
W80S1200	1200	-10 °C–49 °C	DN40 1.5"/DN50 2" /DN65 2.5"	DN80 3"	-	1" NPTF	Side port	40" × (1–8)
W80S1500	1500	-10 °C–49 °C	DN40 1.5"/DN50 2" /DN65 2.5"	DN80 3"	-	1" NPTF	Side port	40" × (1–8)
W80S1800	1800	-10 °C–49 °C	DN40 1.5"/DN50 2" /DN65 2.5"	DN80 3"	-	1" NPTF	Side port	40" × (1–8)

Side Entry Components



Serial-Number	Description	Material
①	Three Turns Retainer Ring	SA-479M F316L
②	Permeate port	EPDM 512
③	Permeate retaining ring	ABS
④	Bearing Plate	SB-209, 6061-T651
⑤	Head Seal	PF062-3
⑥	Head Seal Ring	EPDM 512
⑦	Head Seal O Ring	EPDM 512
⑧	Adaptor	ABS CHIMEI 757K
⑨	Adaptor O Ring	EPDM 512
⑩	Thrust Cone	PF062-3

※ **Note:** Do not install thrust cone at feed port.

Quality Assurance



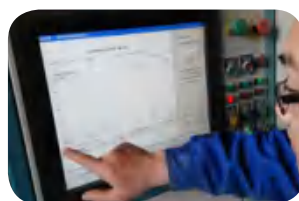
Barcol hardness test:

repeated once every 1.5 meters.



Hydraulic test:

100% quality assurance test with 1.2 times stage elevation. Keep pressure for 2 minutes to ensure no leakage.



Burst test :

6 times of its design pressure.

Cycle test:

100000 times.

Certificates



ASME

CNAS28001

ISO9001

ISO14001

Projects



Gansu chemical plant water process engineering. May 2014



Biel Crystal water treatment engineering. May 2015



April Fine Paper water treatment engineering. May 2015



Daya Bay Cnooc's refinery project. July 2016



Qingdao wastewater reclamation project. Aug 2016



Dalian Hengli petrochemical water treatment project. Nov 2017