

AOWY[®]

HEBEI CHENGDA PIPES CO., LTD.

创新

Innovation
开创未来



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 7 Elements.
- ☆ Adapters, Interconnectors & Mounting Clamps Available.
- ☆ Inlet & Outlet, Size & Quantity Can be Selected.

Test

Burst Test : 6 times of its design pressure.

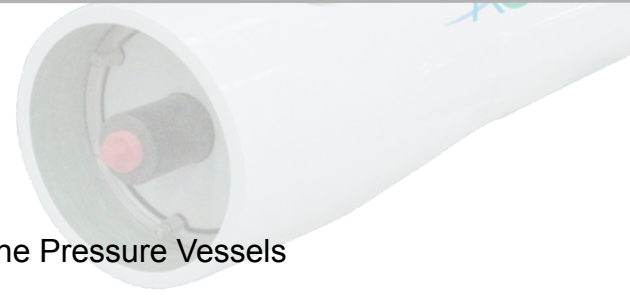
Cycle Test: 130000 times.

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

Barcol Hardness Test: Repeated once every 1.5 meters.

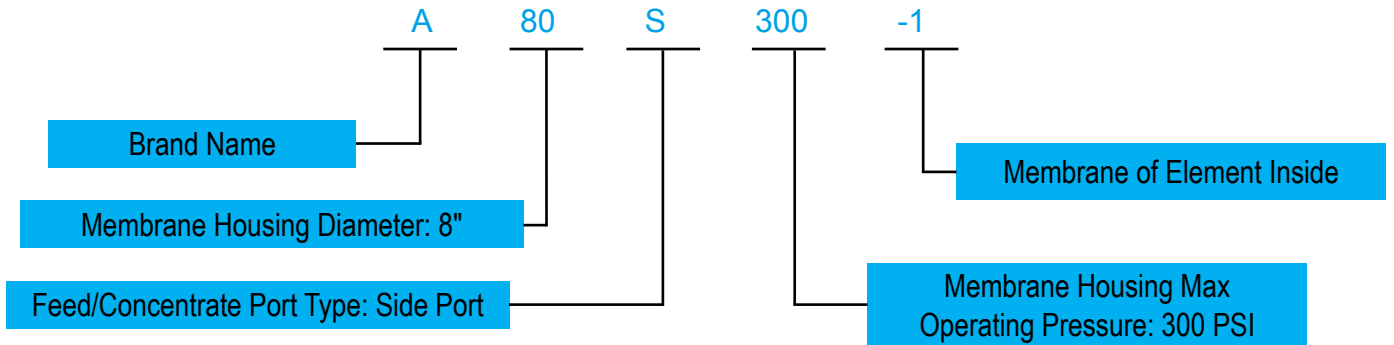
Test every membrane housing, not sampling.





[Explanation Model]

Explanation of Codes of Aowy Membrane Pressure Vessels



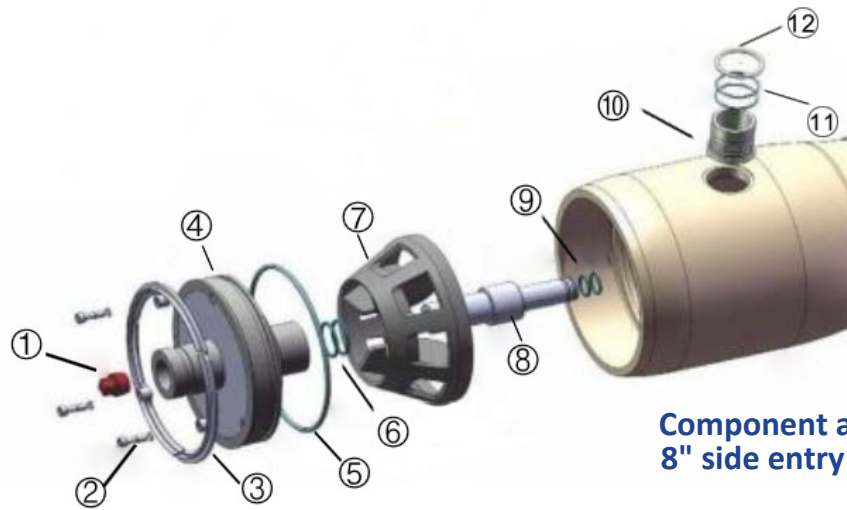
[Side Entry Specification]

Material	Fiberglass and epoxy
Process	Winded
Working Pressure	300 PSI, 450 PSI optional
Connection	Side port
Operating Temperature	-7 °C–49 °C
Operating pH Range	3–11
Cleaning pH Range	2–12 (≤ 30 min)
Certificate	ISO900:2000
Color	Original or customized

[Compare with ASME]

Model No.	A80S300	A80S450
Design Pressure (PSI)	300	450
Aowy Cycle Test	13 0000 times	13 0000 times
Cycle Test Standard by ASME	10 0000 times	10 0000 times
Aowy Burst Pressure	61 Bar	85 Bar
Burst Pressure Standard by ASME	23.1 Bar	34.6 Bar

[Side Entry Components]



Component assembly diagram of 8" side entry membrane housing

Serial-Number	Description	Material
①	Permeate port	ABS
②	Baffle Fixing Bolts	SUS304
③	Link Stopper	SUS304
④	Head Seal	PF062-3/ABS
⑤	Head Seal V Ring	EPDM 512
⑥	Head Seal O Ring	EPDM 512
⑦	Thrust Cone	PF062-3/Engineering Plastic
⑧	Adaptor	ABS
⑨	Adaptor O Ring	EPDM 512
⑩	Side Port	SUS304
⑪	Side Port Seal Ring	EPDM 512
⑫	Side Port Nut	SUS304

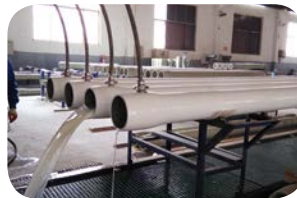
※ **Note:** Do not install thrust cone at feed port.



Quality Assurance



Barcol hardness test:
repeated once every 1.5 meters.

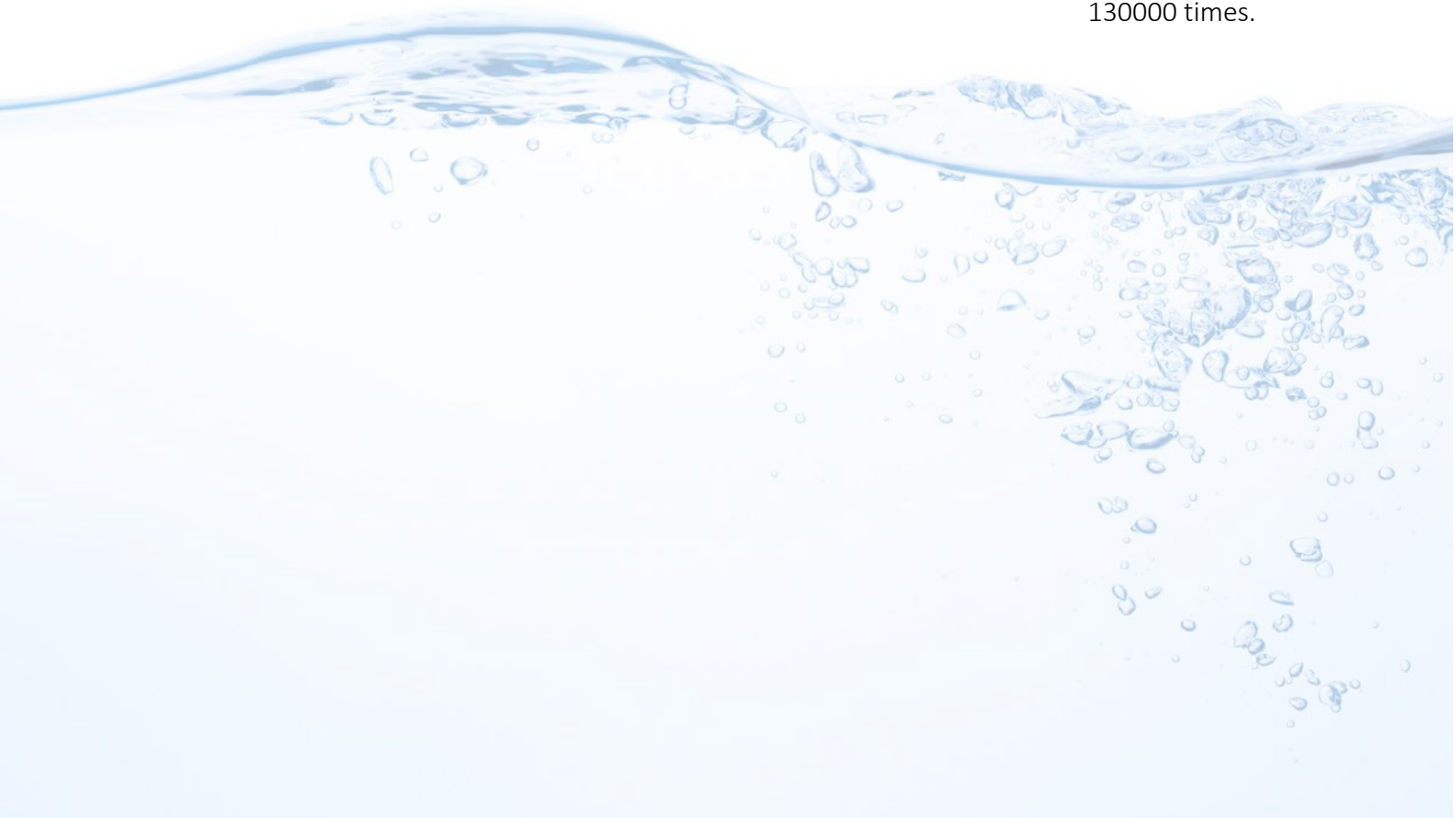


Hydraulic test:
100% quality assurance test with 1.2 times stage elevation. Keep pressure for 2 minutes to ensure no leakage.



Burst test :
6 times of its design pressure
Burst pressure of A80S300: 61 Bar
Burst pressure of A80S450: 85 Bar

Cycle test:
130000 times.



Certificates



ASME

CNAS28001

ISO9001

ISO14001

Projects



Addendum Drawings

1. A80S300 FRP membrane housing drawing

警告!
 淡水口内部压力必须不超过 120PSI (0.84Mpa)
 淡水出水口 F---1"BSPP 内螺纹
 Internal pressure must not exceed 120PSI (0.84Mpa)
 Fresh water outlet F---BSPP 1" internal thread

长度编码 Length Code	L Inch (mm)	P Inch (mm)	重量 WEIGHT lb (kg)
1	66.18 (1427)	44 (1120)	48.5 (22)
2	96.18 (2443)	84 (2136)	65 (29.5)
3	136.18 (3459)	124 (3152)	81.5 (37)
4	176.18 (4475)	164 (4168)	88 (40)
5	216.18 (5491)	204 (5184)	113.3 (51.5)
6	256.18 (6507)	244 (6200)	131 (59.5)
7	296.18 (7523)	284 (7216)	147.5 (67)
8	336.18 (8539)	324 (8232)	164 (74.5)

名称	数量	材料
16 侧盖密封盖 SIDE PORT SEAL RING	2	EPDM 512
15 侧盖侧盖 SIDE DORT	4	SUS304
14 侧盖侧盖 LOGO LABEL	2	ABS
13 侧盖侧盖 STRAP	2-3	A-666 304
12 侧盖侧盖 SADDLE	2-3	TPU(S60D)
11 侧盖侧盖 SIDE PORT	2	SUS304
10 侧盖侧盖 HEAD SEAL O RING	2	EPDM 512
9 侧盖侧盖 BAFFLE FIXING BOLTS	6	SUS304
8 侧盖侧盖 HEAD SEAL	2	ABS
7 侧盖侧盖 ADAPTOR	2	ABS
6 侧盖侧盖 ADAPTOR O RING	4	EPDM 512
5 侧盖侧盖 STRAP PROTE CTIVE JACKET	2-3	软质 PVC SOFTY PVC
4 侧盖侧盖 THRUST CONE	1	工程塑料 Engineering Plastic
3 侧盖侧盖 LINK STOPPER	6	SUS304
2 侧盖侧盖 SHELL	1	FIBER GLASS +EPOXY

检验 Test	方法 METHOD
水压测试 Hydrostatic leakage test	试验压力为设计压力的1.1倍, 采样率: 100% The test pressure is 1.1 times the design pressure, and the sampling rate is 100%.
巴氏硬度 Barcol hardness test	RT-440
重量 Vessel weight test	RT-430
厚度 Thickness check	RT-420

介质名称 Media name: 水 Water
 PH 值 pH value: 3-11
 设计压力 Design pressure: 300PSI
 最低允许温度 Minimum allowable temperature: 20°F(-7°C)
 最高允许温度 Maximum allowable temperature: 120°F(49°C)

系列: A80S300
 材料 MATERIAL: 光滑度 SMOOTH
 描述 DESCRIPTION: MEMBRANE HOUSING

设计人: 陈勇
 日期: 2018.1.3

THIS DRAWING CAN NOT BE USED WITHOUT PRIOR WRITTEN APPROVAL OF OUR COMPANY

DO NOT MEASURE THE DIMENSIONS. 单位 UNIT: MM

2. A80S450 FRP membrane housing drawing

警告!
 淡水口内部压力必须不超过 120PSI (0.84Mpa)
 淡水出水口 F---1"BSPP 内螺纹
 Internal pressure must not exceed 120PSI (0.84Mpa)
 Fresh water outlet F---BSPP 1" internal thread

长度编码 Length Code	L Inch (mm)	P Inch (mm)	重量 WEIGHT lb (kg)
1	60.1 (1527)	47 (1194)	59 (27)
2	100.1 (2543)	87 (2210)	79 (35.8)
3	140.1 (3559)	127 (3226)	98 (44.6)
4	180.1 (4575)	167 (4242)	117 (53.4)
5	220.1 (5591)	207 (5258)	135 (62.2)
6	260.1 (6607)	247 (6274)	156 (71)
7	300.1 (7623)	287 (7290)	176 (79.8)
8	340.1 (8639)	327 (8306)	195 (88.6)

名称	数量	材料
19 侧盖侧盖 STRAP	2-3	A-666 304
18 侧盖侧盖 SADDLE	2-3	TPU(S60D)
17 侧盖侧盖 LOGO LABEL	2	ABS
16 侧盖侧盖 SIDE PORT SEAL RING	4	EPDM 512
15 侧盖侧盖 SIDE DORT	2	SUS304
14 侧盖侧盖 SIDE PORT	2	SUS304
13 侧盖侧盖 BAFFLE FIXING BOLTS	6	SUS304
12 侧盖侧盖 HEAD SEAL T RING	2	EPDM 512
11 侧盖侧盖 HEAD SEAL O RING	2	EPDM 512
10 侧盖侧盖 PERMEATE RETAINING RING	2	SUS304
9 侧盖侧盖 BEARING PLATE	2	SB-209.6061-T651
8 侧盖侧盖 HEAD SEAL	2	PF062-3
7 侧盖侧盖 ADAPTOR	2	ABS CHIMEI 757K
6 侧盖侧盖 ADAPTOR O RING	4	EPDM 512
5 侧盖侧盖 STRAP PROTE CTIVE JACKET	2-3	软质 PVC SOFTY PVC
4 侧盖侧盖 THRUST CONE	1	PF062-3
3 侧盖侧盖 LINK STOPPER	6	SUS304
2 侧盖侧盖 SHELL	1	FIBER GLASS +EPOXY

检验 Test	方法 METHOD
水压测试 Hydrostatic leakage test	试验压力为设计压力的1.1倍, 采样率: 100% The test pressure is 1.1 times the design pressure, and the sampling rate is 100%.
巴氏硬度 Barcol hardness test	RT-440
重量 Vessel weight test	RT-430
厚度 Thickness check	RT-420

介质名称 Media name: 水 Water
 PH 值 pH value: 3-11
 设计压力 Design pressure: 450PSI
 最低允许温度 Minimum allowable temperature: 20°F(-7°C)
 最高允许温度 Maximum allowable temperature: 120°F(49°C)

系列: A80S450
 材料 MATERIAL: 光滑度 SMOOTH
 描述 DESCRIPTION: MEMBRANE HOUSING

设计人: 陈勇
 日期: 2018.1.3

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**130000 Times of Fatigue Test
Burst Pressure Up to 85 Bar**

HEBEI CHENGDA PIPES CO., LTD.

**Add: No. 19, Chuangye Road, Small & Mid Sized Enterprises
Pioneer Park, Zaoqiang County, Hebei, China.**

TEL: +86-18832881267

WhatsApp: +86-18832881267(Skype)

Website: <https://www.winder1976.com>

E-mail: sales02@winder1976.com / sales06@winder1976.com