

flux



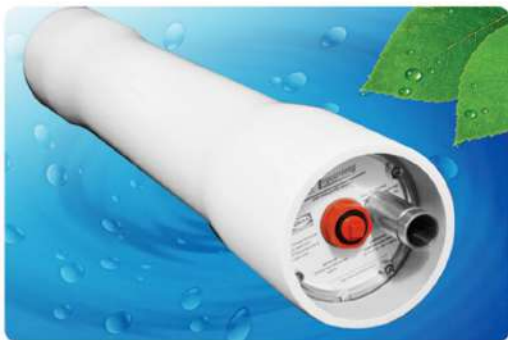
FRP Membrane Housing



8 " PRESSURE VESSEL (SIDE PORT)

CUSTOMER CAN CHOOSE 300PSI,450PSI,600PSI,800PSI, 1000PSI &1200 PSI.AS PER EQUIPMENT REQUIREMENT

CUSTOMER CAN CHOOSE LENGTH 1-7 CORES ACCORDING TO REQUIREMENT.



8 " PRESSURE VESSEL (END PORT)

CUSTOMER CAN CHOOSE 300PSI,450PSI, 600PSI,800PSI,1000PSI&1200 PSI AS PER EQUIPMENT REQUIREMENT

CUSTOMER CAN CHOOSE LENGTH 1-7 CORES ACCORDING TO REQUIREMENT.



4 " PRESSURE VESSEL (SIDE PORT)

CUSTOMER CAN CHOOSE 300PSI,450PSI,600PSI,800PSI,1000PSI&1200 PSI AS PER EQUIPMENT REQUIREMENT

CUSTOMER CAN CHOOSE LENGTH 1-4 CORES ACCORDING TO REQUIREMENT.



4 " PRESSURE VESSEL (END PORT)

CUSTOMER CAN CHOOSE 300PSI,450PSI,600PSI, 800PSI, 1000PSI&1200 PSI AS PER EQUIPMENT REQUIREMENT

CUSTOMER CAN CHOOSE LENGTH 1-4 CORES ACCORDING TO REQUIREMENT.



8" PRESSURE VESSEL(SIDE PORT)

ITEM NO.	PSI (MPA)	CONNECTION	MEMBRANE SIZE	WORKING TEMPRETURE
L80S150	150 (1.0)	SIDE	8040	-7°C~49°C
L80S300	300 (2.1)	SIDE	8040	-7°C~49°C
L80S450	450 (3.1)	SIDE	8040	-7°C~49°C
L80S600	600 (4.1)	SIDE	8040	-7°C~49°C
L80S800	800 (5.5)	SIDE	8040	-7°C~49°C
L80S1200	1200 (8.2)	SIDE	8040	-7°C~49°C

8 "PRESSURE VESSEL (END PORT)

ITEM NO.	PSI (MPA)	CONNECTION	MEMBRANE SIZE	WORKING TEMPRETURE
L80E150	150 (1.0)	END	8040	-7°C~49°C
L80E300	300 (2.1)	END	8040	-7°C~49°C
L80E450	450 (3.1)	END	8040	-7°C~49°C
L80E600	600 (4.1)	END	8040	-7°C~49°C
L80E800	800 (5.5)	END	8040	-7°C~49°C
L80E1200	1200 (8.2)	END	8040	-7°C~49°C

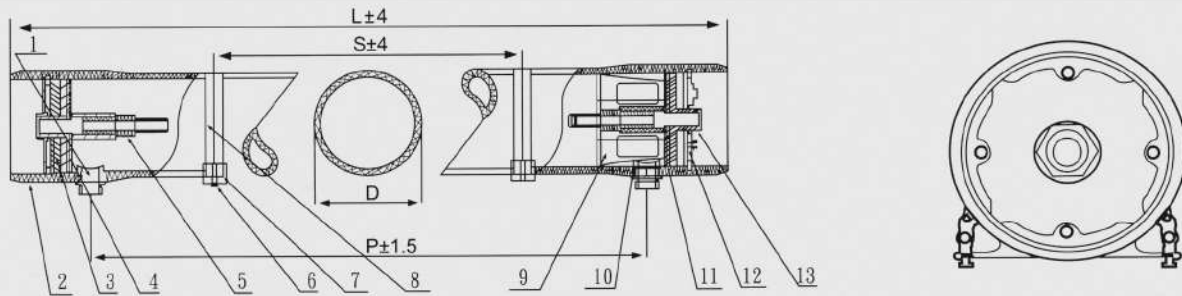
4" PRESSURE VESSEL (SIDE PORT)

ITEM NO.	PSI (MPA)	CONNECTION	MEMBRANE SIZE	WORKING TEMPRETURE
L40S300	300 (2.1)	SIDE	4040	-7°C~49°C
L40S450	450 (3.1)	SIDE	4040	-7°C~49°C
L40S600	600 (4.1)	SIDE	4040	-7°C~49°C
L40S800	800 (5.5)	SIDE	4040	-7°C~49°C
L80S1200	1200 (8.2)	SIDE	4040	-7°C~49°C

4" PRESSURE VESSEL(END PORT)

ITEM NO.	PSI (MPA)	CONNECTION	MEMBRANE SIZE	WORKING TEMPRETURE
L40E300	300 (2.1)	END	4040	-7°C~49°C
L40E450	450 (3.1)	END	4040	-7°C~49°C
L40E600	600 (4.1)	END	4040	-7°C~49°C
L40E800	800 (5.5)	END	4040	-7°C~49°C
L40E1200	1200 (8.2)	END	4040	-7°C~49°C

8" PRESSURE VESSEL (SIDE PORT)



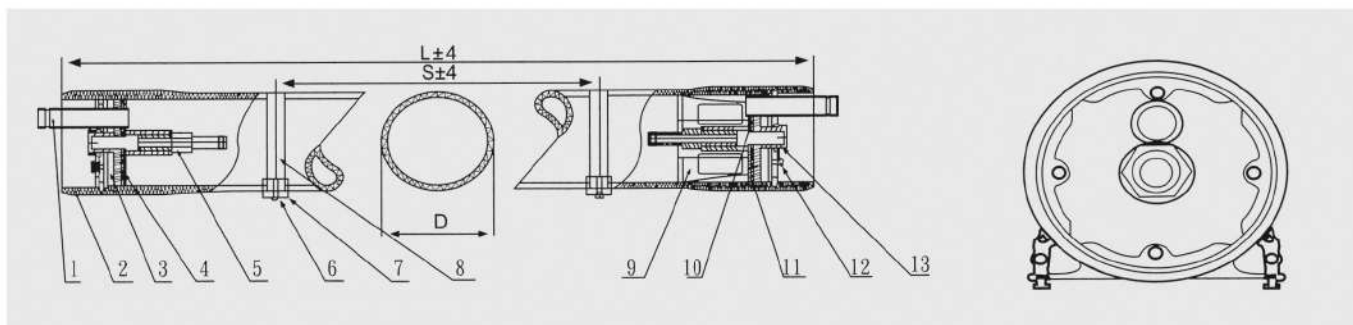
MAIN SIZE

WORKING PRESSURE		L	S	P	D	Number	DESCRIPTION	QTY	MATERIAL
		INCH(mm)	INCH(mm)	INCH(mm)	INCH(mm)				
300PSI (2.1MPA)	1	57.95(1470)	27.99(711)	44.96(1142)	8.27(210)	1	(F/C PORT)	2	(STAINLESS STEEL 304)
	2	97.95(2486)	55.98(1422)	84.96(2158)	8.27(210)	2	(SHELL)	1	(FRP)
	3	137.95(3502)	80.00(2032)	124.96(3174)	8.27(210)	3	(BEARING PLATE)	2	(ALUMINUM ALLOY)
	4	177.95(4518)	60.01×2(1626×2)	165.20(4190)	8.27(210)	4	(SEALING PLATE)	2	PA
	5	217.95(5534)	77.90×2(1981×2)	204.96(5206)	8.27(210)	5	(ADAPTER)	2	PA
	6	257.95(6550)	92.01×2(2337×2)	244.96(6222)	8.27(210)	6	(STRAPS CREW)	4	(STAINLESS STEEL 304)
	7	297.95(7566)	121.42×2(3084×2)	284.96(7238)	8.27(210)	7	(SADDLE)	2	(NATURE RUBBER)
450PSI (3.1MPA)	1	57.95(1470)	27.99(711)	44.96(1142)	8.35(212)	8	(STRAP)	2	(STAINLESS STEEL)
	2	97.95(2486)	55.98(1422)	84.96(2158)	8.35(212)	9	(THRUST CONE)	1	PA
	3	137.95(3502)	80.00(2032)	124.96(3174)	8.35(212)	10	(F/C PORT SEAL)	2	(EPDM)
	4	177.95(4518)	60.01×2(1626×2)	165.20(4190)	8.35(212)	11	(END PLUG SEAL)	2	(EPDM)
	5	217.85(5534)	77.90×2(1981×2)	204.96(5206)	8.35(212)	12	(SECURING BLOCKS)	8	(STAINLESS STEEL316)
	6	257.95(6550)	92.01×2(2337×2)	244.96(6222)	8.35(212)	13	(PORT NUT)	2	ABS
	7	297.95(7566)	121.4×22(3084×22)	284.96(7238)	8.35(212)				
600PSI (4.1MPA)	1	59.69(1514)	27.99(711)	44.96(1142)	8.58(218)				
	2	99.69(2530)	55.98(1422)	84.96(2158)	8.58(218)				
	3	139.69(3546)	80.00(2032)	124.96(3174)	8.58(218)				
	4	179.69(4562)	60.01×2(1626×2)	165.20(4190)	8.58(218)				
	5	219.69(5578)	77.90×2(1981×2)	204.96(5206)	8.58(218)				
	6	259.69(6594)	92.00×2(2337×2)	244.96(6222)	8.58(218)				
	7	299.69(7610)	321.42×2(3084×2)	284.96(7238)	8.58(218)				
800PSI (5.5MPA)	1	59.69(1514)	27.99(711)	44.96(1142)	8.74(222)				
	2	99.69(2530)	55.98(1422)	84.96(2158)	8.74(222)				
	3	139.69(3546)	80.00(2032)	124.96(3174)	8.74(222)				
	4	179.69(4562)	60.01×2(1626×2)	165.20(4190)	8.74(222)				
	5	219.69(5578)	77.90×2(1981×2)	204.96(5206)	8.74(222)				
	6	259.69(6594)	92.00×2(2337×2)	244.96(6222)	8.74(222)				
	7	299.69(7610)	321.42×2(3084×2)	284.96(7238)	8.74(222)				
1200PSI (8.2MPA)	1	59.69(1514)	28.35(720)	44.96(1142)	8.98(228)				
	2	99.69(2530)	58.66(1490)	84.96(2158)	8.98(228)				
	3	139.69(3546)	82.68(2100)	124.96(3174)	8.98(228)				
	4	179.69(4562)	65.75×2(1670×2)	165.20(4190)	8.98(228)				
	5	219.69(5578)	77.90×2(1981×2)	204.96(5206)	8.98(228)				
	6	259.69(6594)	93.70×2(2380×2)	244.96(6222)	8.98(228)				
	7	299.69(7610)	122.28×2(3106×2)	284.96(7238)	8.98(228)				

REMARKS:ALL DATA FOR CUSTOMER'S
REFERENCE ONLY.NO NOTICE IF ANY CHANGE



8" PRESSURE VESSEL(SIDE PORT)

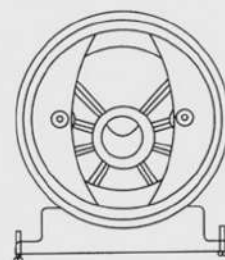
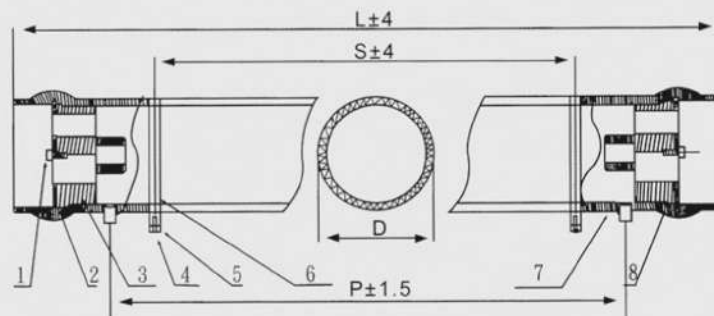


MAIN SIZE

WORKING PRESSURE		L	S	D	Number	DESCRIPTION	QTY	MATERIAL
		INCH(mm)	INCH(mm)	INCH(mm)				
300PSI (2.1MPA)	1	57.95(1470)	27.56(700)	8.27(210)	1	(F/C PORT)	2	(STAINLESS STEEL 304)
	2	97.95(2486)	57.09(1454)	8.27(210)	2	(SHELL)	1	(FRP)
	3	137.95(3502)	81.06(2064)	8.27(210)	3	(BEARING PLATE)	2	(ALUMINUM ALLOY)
	4	177.95(4518)	64.80×2(1646×2)	8.27(210)	4	(SEALING PLATE)	2	PA
	5	217.95(5534)	77.90×2(1981×2)	8.27(210)	5	(ADAPTER)	2	PA
	6	257.95(6550)	92.80×2(2357×2)	8.27(210)	6	(STRAP SCREW)	4	(STAINLESS STEEL 304)
	7	297.95(7566)	121.42×2(3084×2)	8.27(210)	7	(SADDLE)	2	(NATURE RUBBER)
450PSI (3.1MPA)	1	57.95(1470)	27.56(700)	8.35(212)	8	(STRAP)	2	(STAINLESS STEEL)
	2	97.95(2486)	57.09(1454)	8.35(212)	9	(THRUST CONE)	1	PA
	3	137.95(3502)	81.06(2064)	8.35(212)	10	(F/C PORT SEAL)	2	(EPDM)
	4	177.95(4518)	64.80×2(1646×2)	8.35(212)	11	(END PLUG SEAL)	2	(EPDM)
	5	217.85(5534)	77.90×2(1981×2)	8.35(212)	12	(SECURING BLOCKS)	8	(STAINLESS STEEL)
	6	257.95(6550)	92.80×2(2357×2)	8.35(212)	13	(PORT NUT)	2	ABS
	7	297.95(7566)	121.42×2(3084×2)	8.35(212)				
600PSI (4.1MPA)	1	59.69(1514)	27.56(700)	8.58(218)				
	2	99.69(2530)	57.09(1454)	8.58(218)				
	3	139.69(3546)	81.06(2064)	8.58(218)				
	4	179.69(4562)	64.80×2(1646×2)	8.58(218)				
	5	219.69(5578)	77.90×2(1981×2)	8.58(218)				
	6	259.69(6594)	92.80×2(2357×2)	8.58(218)				
	7	299.69(7610)	121.42×2(3084×2)	8.58(218)				
800PSI (5.5MPA)	1	59.69(1514)	27.99(711)	8.74(222)				
	2	99.69(2530)	55.98(1422)	8.74(222)				
	3	139.69(3546)	80.00(2032)	8.74(222)				
	4	179.69(4562)	60.01×2(1626×2)	8.74(222)				
	5	219.69(5578)	77.90×2(1981×2)	8.74(222)				
	6	259.69(6594)	92.00×2(2337×2)	8.74(222)				
	7	299.69(7610)	321.42×2(3084×2)	8.74(222)				
1200PSI (8.2MPA)	1	59.69(1514)	27.99(711)	8.98(228)				
	2	99.69(2530)	55.98(1422)	8.98(228)				
	3	139.69(3546)	80.00(2032)	8.98(228)				
	4	179.69(4562)	60.01×2(1626×2)	8.98(228)				
	5	219.69(5578)	77.90×2(1981×2)	8.98(228)				
	6	259.69(6594)	92.00×2(2337×2)	8.98(228)				
	7	299.69(7610)	321.42×2(3084×2)	8.98(228)				

REMARKS:ALL DATA FOR CUSTOMER'S
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4" PRESSURE VESSEL (SIDE PORT)



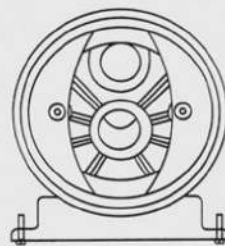
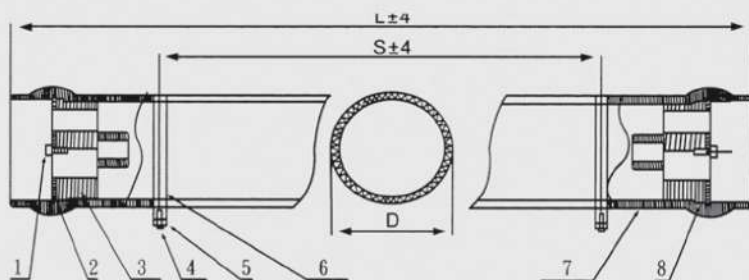
MAIN SIZE

WORKING PRESSURE		L	S	P	D	Number	DESCRIPTION	QTY	MATERIAL
		INCH(mm)	INCH(mm)	INCH(mm)	INCH(mm)				
300PSI (2.1MPA)	1	46.85(1190)	24.02(610)	39.88(1013)	4.41(112)	1	(SCREW)	4	(STAINLESS STEEL 304)
	2	86.85(2206)	53.15(1350)	79.88(2029)	4.41(112)	2	(BAFFLE)	4	(STAINLESS STEEL 304)
	3	126.85(3222)	77.17(1960)	109.88(3045)	4.41(112)	3	(END PLUG)	2	PA
	4	166.85(4238)	62.20×2(1580×2)	1159.88(4190)	4.41(112)	4	(STRAP SCREW)	4	(STAINLESS STEEL 304)
450PSI (3.1MPA)	1	46.85(1190)	24.02(610)	39.88(1013)	4.49(114)	5	(SADDLE)	2	(NATURE RUBBER)
	2	86.85(2206)	53.15(1350)	79.88(2029)	4.49(114)	6	(STRAP)	2	(STAINLESS STEEL)
	3	126.85(3222)	77.17(1960)	109.88(3045)	4.49(114)	7	(SHELL)	1	(FRP)
	4	166.85(4238)	62.20×2(1580×2)	1159.88(4190)	4.49(114)	8	(END PLUG SEAL)	2	(EPDM)
600PSI (4.1MPA)	1	46.85(1190)	24.02(610)	39.88(1013)	4.57(116)				
	2	86.85(2206)	53.15(1350)	79.88(2029)	4.57(116)				
	3	126.85(3222)	77.17(1960)	109.88(3045)	4.57(116)				
	4	166.85(4238)	62.20×2(1580×2)	1159.88(4190)	4.57(116)				
800PSI (5.5MPA)	1	48.43(1230)	24.02(610)	39.88(1013)	4.65(118)				
	2	88.43(2246)	53.15(1350)	79.88(2029)	4.65(118)				
	3	128.43(3262)	77.17(1960)	109.88(3045)	4.65(118)				
	4	168.43(4278)	62.20×2(1580×2)	1159.88(4190)	4.65(118)				
1200PSI (8.2MPA)	1	48.43(1230)	24.02(610)		4.72(120)				
	2	88.43(2246)	53.15(1350)		4.72(120)				
	3	128.43(3262)	77.17(1960)		4.72(120)				
	4	168.43(4278)	62.20×2(1580×2)		4.72(120)				

REMARKS:ALL DATA FOR CUSTOMER'S
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4" PRESSURE VESSEL (END PORT)



MAIN SIZE

WORKING PRESSURE		L	S	D
		INCH(mm)	INCH(mm)	INCH(mm)
300PSI (2.1MPA)	1	44.49(1130)	24.02(610)	4.41(112)
	2	84.49(2146)	53.15(1350)	4.41(112)
	3	124.49(3162)	77.17(1960)	4.41(112)
	4	164.49(4178)	62.20×2(1580×2)	4.41(112)
450PSI (3.1MPA)	1	44.49(1130)	24.02(610)	4.49(114)
	2	84.49(2146)	53.15(1350)	4.49(114)
	3	124.49(3162)	77.17(1960)	4.49(114)
	4	164.49(4178)	62.20×2(1580×2)	4.49(114)
600PSI (4.1MPA)	1	44.49(1130)	24.02(610)	4.57(116)
	2	84.49(2146)	53.15(1350)	4.57(116)
	3	124.49(3162)	77.17(1960)	4.57(116)
	4	164.49(4178)	62.20×2(1580×2)	4.57(116)
800PSI (5.5MPA)	1	46.38(1178)	24.02(610)	4.65(118)
	2	86.38(2194)	53.15(1350)	4.65(118)
	3	126.38(3210)	77.17(1960)	4.65(118)
	4	166.38(4226)	62.20×2(1580×2)	4.65(118)
1000PSI (6.9MPA)	1	46.38(1178)	24.02(610)	4.72(120)
	2	86.38(2194)	53.15(1350)	4.72(120)
	3	126.38(3210)	77.17(1960)	4.72(120)
	4	166.38(4226)	62.20×2(1580×2)	4.72(120)

Number	DESCRIPTION	QTY	MATERIAL
1	(SCREW)	4	(STAINLESS STEEL 304)
2	(BAFFLE)	4	(STAINLESS STEEL 304)
3	(END PLUG)	2	PA
4	(STRAP SCREW)	4	(STAINLESS STEEL 304)
5	(SADDLE)	2	(NATURE RUBBER)
6	(STRAP)	2	(STAINLESS STEEL)
7	(SHELL)	1	(FRP)
8	(END PLUG SEAL)	2	(EPDM)

REMARKS: ALL DATA FOR CUSTOMER'S REFERENCE ONLY. NO NOTICE IF ANY CHANGE

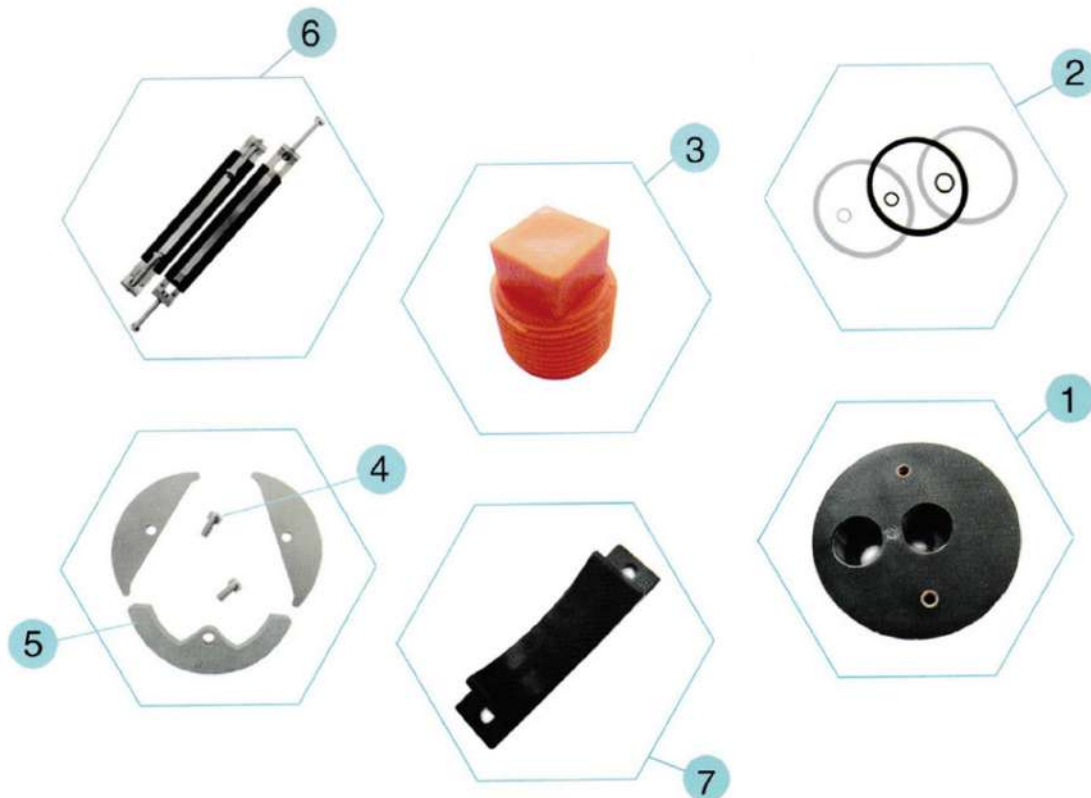
8" PRESSURE END PORT ILLUSTRATION



1. (SECURING SCREW)
2. (SECURING RING)
3. (PORT NUT)
4. (BEARING PLATE)
5. (SEALING PLATE)
6. (HEAD SEALING RING)
7. (ADAPTER)
8. (ADAPTER SEALING RING)
9. (THRUST CONE)



4" PRESSURE END PORT ILLUSTRATION



1. (END PLATE)-PA(ABS)
2. (END PLATE SEAL)-(EPDM)
3. (BAFFLE)-(STAINLESS STEEL 304)
4. (SCREW)-(STAINLESS STEEL 304)
5. (NUT)-ABS
6. (STRAPE) - (STAINLESS STEEL 304)
7. (SADDLE)-(NATURE RUBBER)



Accessories of 8" Pressure Vessel



Name: Pressure Vessel
Material: Wound Fiber-glass Reinforced Plastic (FRP)



Name: Plug Nut
Material: ABS



Name: Bearing Plate
Material: Aluminum Alloy



Name: Retaining Ring
Material: Zinc Alloy



Name: Sealing Plate
Material: PA



Name: Ssretaining Ring
Material: SUS 316



Name: Side Port
Material: Stainless Steel



Name: Thrust Cone
Material: PA



Name: Adaptor
Material: PA



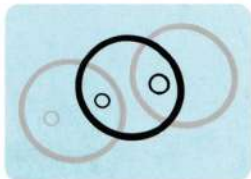
Name: Saddle
Material: Rubber



Name: Screw
Material: ABS



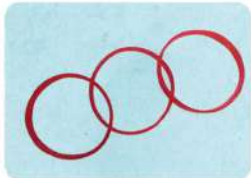
Name: Strap
Material: SUS304



Name: Sealing Parts
Material: EPDM



Name: Coupling
Material: Stainless Steel



Name: Side Port Sealing Ring
Material: Silica Gel



Name: Stainless Steel Pipe fitting
Material: Stainless Steel



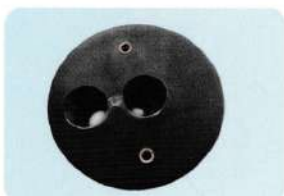
4"压力容器零部件图 Accessories of 4" Pressure Vessel



Name: Pressure Vessel
Material: Wound Fiber-glass Reinforced Plastic(FRP)



Name: Connector
Material: SUS316
Remark: For Sea-water Desalination



Name: End Plate
Material: PA



Name: Strap
Material: SUS304



Name: Concentrate Port Nut
Material: ABS



Name: Saddle
Material: Rubber



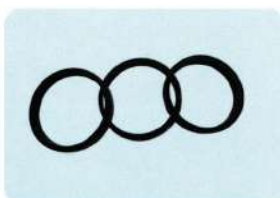
Name: Baffle
Material: SUS316
Remark: For Sea-water Desalination



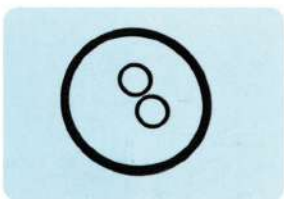
Name: Side Port
Material: SUS316 DN25



Name: Blocks
Material: SUS316



Name: Side Port Sealing Ring
Material: EPDM



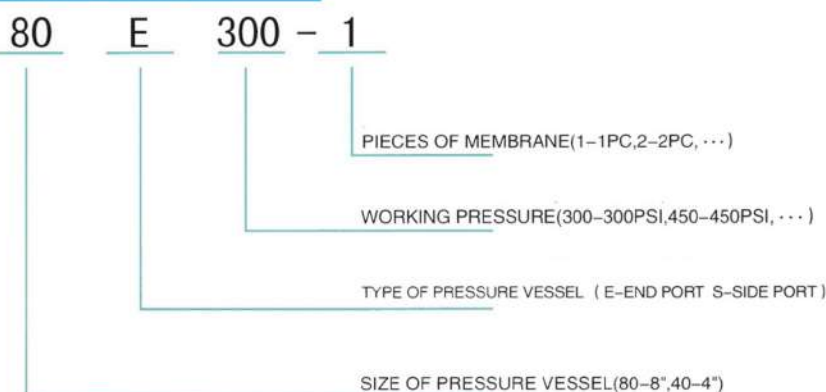
Name: O Ring
Material: EPDM



Name: Side Port Circlip
Material: SUS304



SPECIFICATIONS ILLUSTRATION



- ◆ Welcome to use “ **flux** ” FRP membrane housing. Please read this instruction before mounting. Failure to follow these guidelines and neglect every precaution may result in malfunction, even damage to human beings. Therefore, we recommend that only qualified and experienced person can handle these vessels to avoid potential security risk!
- * Damage due to improper operation or installing is the sole responsibility of the purchaser. *

Steps: (Illustrate by side port FRP membrane housing)

- ◆ Fix the frame well.
Identify every accessories according to the Accessory Drawing, to mount the shell on the center of the frame with saddles and straps in accordance with the spans(S) suggested by factory. Assure that saddles and straps leave space for the expansion of the shell. The bolts should not be so tight.
- ◆ Using a mild solution to clean each end of the vessel liner surface; rinse away all loosened deposits from the shell inside surface using fresh water.
- ◆ Using glycerin to lubricate the rubber seal ring, the inside of the head and the seal area.
- ◆ Check that the thrust cone is installed in the concentrate port.
- ◆ Load the membrane element clockwise into the upstream end of the vessel. Leave a few inches of the membrane element projection from the vessel to facilitate interconnection to the next membrane element, then assemble the inter-connector O-ring covered with glycerin to the loaded element, then one by one to be pushed forward until the distance between the last membrane element and the ring groove is around 180mm. Then install the adaptor into the membrane permeate tube.
- ◆ Put the securing blocks into the groove then install and fasten the screws with the inside hexangular wrench.

Note:

- ◆ All the spare parts according to the list;
- ◆ The proper installation of thrust cone and bearing plate;
- ◆ Make sure the thrust cone is in the side of concentrate port.
- ◆ Check all piping connections (Coupling and hoop) to ensure that they will provide a leak-free seal;
- ◆ After completing the above pre-pressurization checks, vessel should be filled slowly to assist air in escaping.

Removing Instruction:

- ◆ Release pressure. Shut off all sources of pressure and release pressure from the shell.
- ◆ Disconnect and remove feed/concentrate port.
- ◆ Remove the screws from the security blocks with the inside hexangular wrench. Then use the leather hammer to strike the sealing plate to make the sealing blocks loose.

Maintenance Guide:

- ◆ Operation temperature is -7°C ~ 49°C , the allowable water PH range is 3~10.
- ◆ Abnormal back pressure should not above 125PSI (0.88Mpa)
- ◆ Use of unallowable solutions.
- ◆ Forbid to remove shell under working conditions.
- ◆ The shell should not be used as a support. Do not apply undue force to any spare parts connected directly.
- ◆ Can not be operated exceed design pressure for a long time.