



REF	PART NUMBER	DESCRIPTION	QTY	UNIT	REVISION
23	A8023.1	Shim	0-3	Engineering Thermoplastic	
22	A8022.3	Permeate Part	2	Engineering Thermoplastic, 316SS Ring	
21	47.5x3.55G GB/73452.1	O-ring	2	EPDM	
20	58x2.65G GB/73452.1	O-ring	2	EPDM	
19	A8020	Securing Ring	2	Engineering Thermoplastic	
18	A8018.2	Locking Kit Segment	2 Set	316SS	
17	GB/770.1 M8x20	Locking Segment Screw	6	316SS	
16	A8016	Saddle	2-3	Rubber	
15	GB/75782 M8x90	Strap Screw	4-6	316SS	
14	A8014.3	Strap	2-3	316SS-Brass and Rubber	
13	23.6x2.65G GB/73452.1	O-ring	4	EPDM	
12	A8012.3	Adapter	2	Engineering Thermoplastic	
11	A8011.3	Thrust Ring	1	Engineering Thermoplastic	
10	S80120F(0Z)	2.5"Feed/Conc. Part	2-4	Super Duplex Stainless Steel	OPT
9	S80120E(0Z)	2"Feed/Conc. Part	2-4	Super Duplex Stainless Steel	OPT
8	S80120D(0Z)	1.5"Feed/Conc. Part	2-4	Super Duplex Stainless Steel	OPT
7	691653x3.55G GB/73452.1	O-ring	4-8	EPDM	
6	53x3.55G GB/73452.1	O-ring	4-8	EPDM	
5	41.2x3.55G GB/73452.1	O-ring	4-8	EPDM	
4	A8007	Permeate Part Locknut	2	Engineering Thermoplastic	
3	A8006	Plug	1	Engineering Thermoplastic	
2	36.5x3.55G GB/73452.1	O-ring	4	EPDM	
1	190x5.3G GB/73452.1	O-ring	2	EPDM	
04	A8003.3	Parted Sealing Plate	2	Engineering Thermoplastic	
03	A8002.10	Bearing Plate	2	Aluminium Alloy-Hard anodized	
02	A8002.10	Bearing Plate	2	Aluminium Alloy-Hard anodized	
01	S8006.1-8	Pressure Shell	1	FRP-316SS Embedded ring wound-in-place	

F/C PORT	DI (MM/IN)	HI (MM/IN)
1.5" (DN40)	278/10.9	164/6.4
2" (DN50)	282/11.1	166/6.5
2.5" (DN65)	302/11.8	177/7.0

- DESIGN PRESSURE 1200PSI(8.3MPa).
- DESIGN TEMPERATURE 150°F(66°C).
- MIN ALLOWABLE TEMPERATURE 20°F(-7°C).
- WORKING MEDIUM SEA WATER OR BRACKISH WATER, pH RANGE 3-11.
- DIMENSIONS IN MILLIMETERS APPROX.
- INTERNAL PERMEATE PRESSURE NOT TO EXCEED 125PSI(0.88Mpa).
- THE QUANTITY OF ITEM NO.8 - 9 AND 10, DEPEND ON THE FEED/CONC. PORTS CONFIGURATION.
- ITEM 11 CONCENTRATE SIDE ONLY.
- ITEM 23 FEED SIDE ONLY.
- PLEASE OPERATE IN ACCORDANCE WITH USER MANUAL.
- FOR REFERENCE ONLY, NOT FOR CONSTRUCTION UNLESS CERTIFIED.
- SPARE PARTS FORM JUST FOR REFERENCE, SPECIFIC FORM OF THE SPARE PART DRAWING PREVAIL, SUBJECT TO CHANGE WITHOUT NOTICE.
- ALL PARTS CAN BE RECYCLED EXCEPT FRP SHELL.

Shell length code	Shell number	L (MM/IN)	P (MM/IN)	S (MM/IN)	Approx assembly weight (1.5" Feed / Conc. Part)
1	S8006.1	1534/60.4	1143/45	240/9.4	68/150
2	S8006.2	2550/100.4	2159/85	426/16.7	90/198
3	S8006.3	3566/140.4	3175/125	604/23.8	127/281
4	S8006.4	4582/180.4	4191/165	800/31.4	174/384
5	S8006.5	5598/220.4	5207/205	1000/39.4	220/484
6	S8006.6	6614/260.4	6223/245	1200/47.2	264/582
7	S8006.7	7630/300.4	7239/285	1400/55.1	308/676
8	S8006.8	8646/340.4	8255/325	1600/63.0	350/770

DESIGN	REVIEW	APPROVAL	DATE

ROPV Marlin ROPV Industry Development Center

MODEL	REV
R8040B1200S PRESSURE VESSEL	

DESCRIPTION	DATE
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