

3 Pumps Standard Sea Chest

Technical Data Sheet

Part Number: 31003-31004

Product Type: Marine Sea Chest Assembly

Application: Raw water intake and distribution system for recreational marine vessel

Features	Manufacturing Method
<ul style="list-style-type: none"> • Marine-grade 316 stainless steel construction. • Corrosion-resistant marine powder coating. • Clear acrylic inspection lid. • Dual pump redundancy for continuous operation. • Integrated breather / pressure relief valve. • Modular outlet configuration. • Heavy-duty welded assembly. • Long service life in marine environments. • ABYC compliant design. • Hardware ASMEB18.2.1 Marine grade Compliant 	<ul style="list-style-type: none"> ✓ Fabricated and TIG welded construction ✓ Machined threaded ports ✓ Marine-grade powder coated finish ✓ USA made and assembled

Technical information

Materials		Dimensions	
Body	316 Stainless Steel (Marine Grade) Marine-grade powder coated exterior and interior	Length:	19.25in (489mm)
Lid	Clear Acrylic/ Neoprene Gasket	Width:	13.30in (338mm)
Valves	Glass-Filled Nylon (Marine Grade)	Height:	11.53in (293mm)
Hardware	Hex 5/16-18" UNC Stainless Steel 316	Weight:	41.50lbs. (18.83 kg) <i>weight may vary with options</i>
		Usable Volume:	5.43gal (20.55L)
Connections	<ul style="list-style-type: none"> • Inlets: 2 × 2" NPSF threaded ports • Primary outlets: 3 × 1" NPS ball valves (Gemlux) • Optional outlets: 3/4" NPS ball valves (Gemlux) • Breather / Overflow: 1 × 3/4" NPS valve (Gemlux) • Pumps Voltage: 12VDC/24VDC ** 		
Flow Capacity	<ul style="list-style-type: none"> • Individual capacity: 1500 GPH (5678 LPH) or 2000 GPH (7576 LPH) • Total system capacity: 4500 GPH (17.034 LPH) or 6000 GPH (22712 LPH) • Net Usable Volume: 5.43gal (20.55L) 		

For additional technical specifications, electrical characteristics, and performance data, refer to Rule Pumps documentation for models **5678 (1500 GPH) and **7571 (2000 GPH)**. Pumps are third-party components and are not manufactured by Best Marine Products.

Installation Guidelines

1. Recommended Mounting Clearance

To ensure proper installation, serviceability, and compliance with good marine engineering practices and **American Boat and Yacht Council (ABYC)** guidelines, the following minimum clearances are recommended:

Area	Minimum	Recommended
Top Clearance (Lid Removal & Inspection)	3.0 in (102 mm)	5.0 in (152 mm)
Side Clearance (Connections & Structural Access)	2.0 in (51 mm) each side	3.0 in (76 mm) each side
Bottom Clearance (Drainage & Mounting Surface)	0.25 in (6 mm)	0.5 in (12 mm)
Front / Valve Access Clearance	4.0 in (152 mm)	6.0 in (203 mm)
Breather Valve Vertical Clearance	3.0 in (76 mm) above breather fitting	3.5 in (89mm)

2. Recommended Mounting Surface Requirements

- Flat, rigid structural surface.
- Capable of supporting minimum **125 lbs. (56 kg)**.
- Use marine-grade mounting hardware (316 SS recommended).
- Install below vessel water line.
- Install accessible for inspection and maintenance in the bilge area.
- Install close to water pickups (within 2 feet of Sea Chest inlets max).

3. Recommended Installation Envelope

Length: **22.25 in (565 mm)**

Width: **17.30 in (440 mm)**

Height: **14.53 in (370 mm)**

4. Compliance and Standards

This Sea Chest Assembly is designed and manufactured in accordance with **American Boat and Yacht Council (ABYC)** standards, including:

- ✓ **ABYC H-27** – Seacocks, Thru-Hull Fittings, and Drain Plugs
- ✓ **ABYC H-23** – Bilge Pump Systems
- ✓ **ABYC E-2** – Cathodic Protection

Note: The sea chest must be bonded to the vessel's cathodic protection system in accordance with ABYC E-2. Proper bonding ensures corrosion protection and safe operation. Inspect sacrificial anodes regularly. Use a Minimum **16 AWG (1.5 mm²)** marine-grade tinned copper conductor or per vessel bonding system specification.

These standards ensure proper seawater intake system integrity, safe bilge pump integration, and protection against galvanic corrosion in marine environments.