

Navy and Marine Duty Pumps



MIL-P-17639 MIL-P-17840 MIL-P-18144 MIL-P-18472 ASTM-F998 COMPOSITES





TRUSTED SUPPLIER OF CENTRIFUGAL PUMPS TO THE US NAVY

ISO 9001-2008 Bulletin 992

Buffalo Pumps has proudly manufactured pumps for the US Navy since World War I. Buffalo Pumps provided pumps for the liberty ships during World War II and received the Army-Navy "E" award from the U.S. Armed Forces - the highest honor a manufacturer could receive for quality production of defense materials. In more recent times, Buffalo Pumps was awarded the Defense Supply Center Certificate of Appreciation for outstanding supply support during operation Desert Storm. And today, Buffalo Pumps continues its proud tradition by supplying pumps to the most demanding of military specifications for the majority of combatant and support vessels in the fleet.

Applications:

Fire Fighting

Air Conditioning / Chilled Water

Central Seawater

Bilge

Ballast

JP-5

Water Circulation

Potable Water

Chlorination

Special Purpose Systems

Demineralized Water

Fresh and Seawater Cooling

Condensate Drain

Hot Water Circulation

Performance Range / Capabilities:

Flow Rate to 7500 GPM / 1700m³/hr

Heads to 400 Feet / 120m

Power to 1000 HP / 750 KW

NPSHr to 1 foot

Available in all materials of construction including composite

Complete range of testing available including shock and Vib I

Split case in vertical / horizontal

End suction in vertical / horizontal

Built to full Navy or commercial marine specifications



MIL-P-17639 / 17840 / 18144 / 18472



Navy Titanium Fire Pump built to NAVSEA drawing for emergency fire fighting service and in various configurations and orientations



Navy Standard Titanium Pump built to NAVSEA drawing for centralized seawater cooling service



Navy standard end suction pumps in a complete size range from 1C to 17C for a wide variety of services



Multiple shock qualified pump models for every flow and head range built to full NAVY specifications

ASTM F998 with Navy Supplement



Vertical double suction pumps for large flow rates and space saving orientation for commercial marine applications



Special purpose pumps with ANSI or Navy standard pump ends for use in cooling or other packaged systems



Special high pressure vertical double suction pump with gauge panel for local monitoring



Buffalo Pumps has extensive experience with all materials of construction including composites

REFURBISHED PUMPS / REPLACEMENT PARTS



Replacement pump ends available to match existing installations



Replacement parts available in Buffalo Pumps patented composite material or original metal construction

ON-SITE TESTING CAPABILITY

All performance testing is done in accordance with Hydraulic Institute Standards and applicable MIL specifications.

- Power to 1000 HP / 750 KW
- Flow rates to 7500 GPM / 1700m³/hr Heads to 400 feet / 120m
- Operation on inverter to test performance at different speeds
- Full NPSHr and Suction Lift Testing capability
- Structureborne and Airborne Noise testing
- Bearing stabilization
- Reverse rotation

- Endurance / life cycle testing under varying conditions
- Testing in Freshwater or Seawater
- Shock Qualification and Type 1
 Vibration available off-site
- Measurement of vibration / noise levels with dynamic signal analysis equipment

NAVY / MARINE DUTY APPLICATION DATA WORKSHEET

Visit our website at www.buffalopumps.com to submit this data for Buffalo Pumps selection and quotation

Ship / Project Re	eference:		Service:	
Flow Required:	US GPM cubic meters / hour			
Head / Pressure		psig feet meters	Liquid / Temperat Testing Required:	seawater F/C fresh water F/C JP-5 F/C other F/C
				Full Range Performance
Applicable Pump Specification				Shock Qualification
				 Structureborne / Airborne Noise
				— Suction Lift
				NPSHR
	F998 w/Suppleme			Bearing Stabilization
Commercial Marine Other		9		— Reverse Rotation
	- 011101			
Materials of Co	nstruction: (if not c	overed in MIL specifi	cations)	
Impeller			Motor Require	ments: (if not covered in MIL specifications)
Casing			HP	rpm
Shaft Discharge Pipe			voltage	
Other			hazara	lous area service factor
Additional Requirements:			ambier ABS	nt IEEE space heater voltage other
				EST ES

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