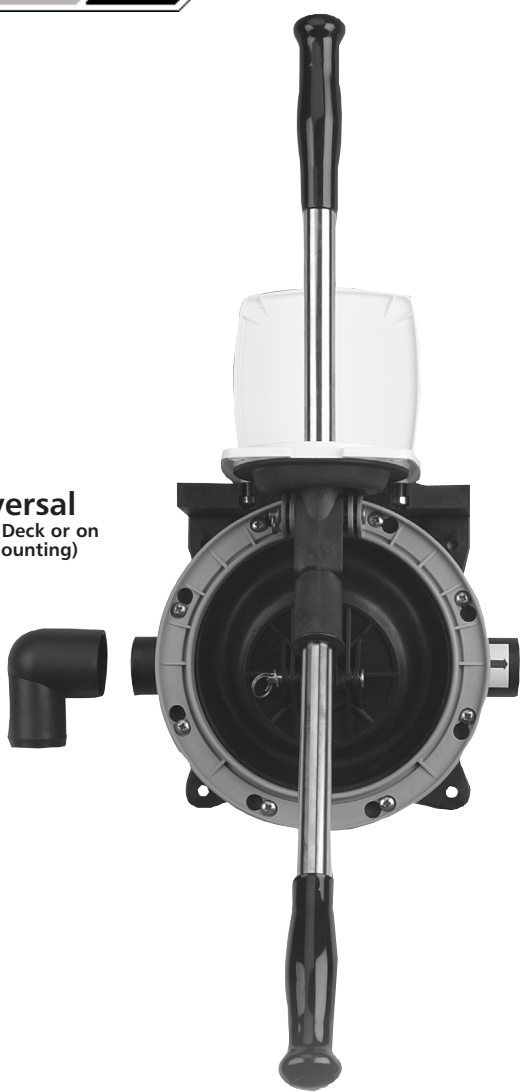




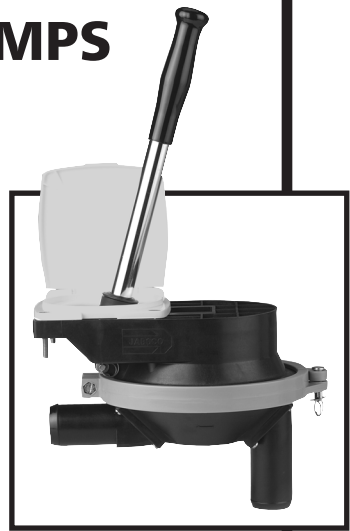
AMAZON

MANUAL BILGE PUMPS

Universal
(Through Deck or on Deck mounting)



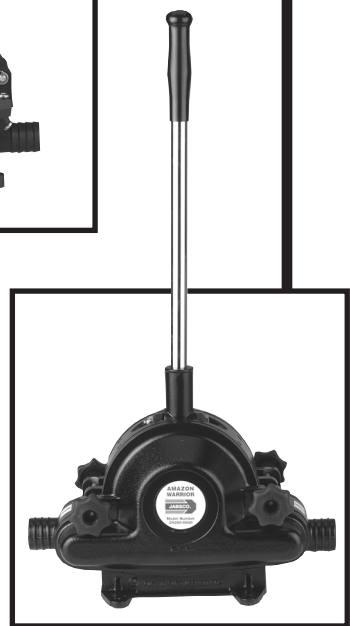
ThruDeck



Bulkhead



Warrior



Bilge Strainers



In-line Non-Return Valves



INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

MODELS

PUMPS

- **29240-0000** Bulkhead pump, c/w detachable handle
- **29250-0000** Thrudeck pump, c/w detachable handle and through deck kit
- **29270-0000** Universal pump, c/w detachable handle and one push-fit elbow
- **29280-0000** Warrior pump, c/w detachable handle

OPTIONS

- **29279-0000** Through deck kit (for Universal and Warrior only)
- **29289-0000** Under deck bracket (required for Warrior when used with through deck kit)
- **29266-1000** Additional push-fit elbow (for Universal only)

ACCESSORIES

- **29290-0020** Bilge strainer for 19mm (3/4") id hose
- **29290-0000** Bilge strainer for 25mm (1") id hose
- **29290-0010** Bilge strainer for 38mm (1 1/2") id hose
- **29295-0011** In-line non-return valve for 19mm (3/4") id hose
- **29295-0000** In-line non-return valve for 25mm (1") id hose
- **29295-0010** In-line non-return valve for 38mm (1 1/2") id hose

APPLICATIONS

The Amazon range of pumps is primarily designed to evacuate standing bilge water.

CAUTION: Amazon pumps are not designed to keep pace with water flowing in through a hole in the vessel's structure.

Actual performance varies according to the individual installation and the pumping rate of the user.

The Amazon Universal and Warrior models are also suitable for discharging toilet waste from holding tanks.

CAUTION: Amazon pumps are designed specifically for use as bilge pumps and toilet waste disposal pumps. Consult ITT Industries-Jabsco for advice about all other possible applications. Do not use Amazon pumps to transfer petrol, petroleum products, acids, chemicals or caustic liquids.

INSTALLATION INSTRUCTIONS

INTRODUCTION

An Amazon pump will become an integral part of your bilge pumping system. Correct installation of the whole system is essential if you want the pump to perform properly, operate reliably and safely, and to give satisfactory length of life.

1 LOCATION

Your pump is delivered ready for installation, but all Amazon pumps can be adapted by the installer to suit different types of location.

- Select a location that allows you to pump comfortably for long periods of time, preferably with the handle rocking vertically towards and away from you at waist height.
- Ensure that there is sufficient clearance for you to use the full stroke of the handle without injury to your hands and arms.
- You must be able to get easy access to the pump chamber and both inlet and outlet valves in the event of a blockage occurring.
- For safety, locate the pump - whether above or below decks - where you can operate it with all hatches and lockers fully closed.

2 MOUNTING

For all models, except the Thrudeck, you will need the appropriate number, type, diameter and length of bolts, complete with nuts and washers, to mount the unit on the deck. All should be in marine grade stainless steel or bronze, and a small tube of silicone sealant will be required to seal the bolts where they pass through the deck.

- The mounting surface must be flat and sufficiently strong so that it does not flex when you are pumping hard.

3 THROUGH HULL FITTING

If you are installing the pump as a bilge pump you will need either a 25mm (1") id or 38mm (1½") id through hull fitting, according to the particular model of pump.

- Follow the through hull fitting manufacturer's own instructions concerning materials and methods of installation.
- Ensure that the through hull fitting will be above the waterline at all times, whether the craft is at rest or underway, or heeling, rolling or pitching.

4 SUCTION INLET

The suction inlet must be located in the deepest part of the bilges.

- To minimise the risk of a blockage you should fit an Amazon Strainer.
- You must be able to get easy access to the suction inlet point in the event of a blockage occurring.
- To maximise the efficiency of the pump you should have a non-return valve close to the suction inlet. This prevents the water that you have just lifted up the hose from falling back into the bilge. (Amazon Bilge Strainers incorporate a non-return valve). If, for any reason, you do not want to fit a strainer you should fit an Amazon in-line, non-return valve as close to the suction inlet as possible.

5 PIPEWORK

You will need spiral reinforced smooth bore flexible hose for both the inlet and outlet pipework, and a stainless steel wormdrive hose clip for every hosedtail connection (4 or more).

- To maximise the efficiency of the pump ensure that the outlet hose rises at least 30cm (12") after it leaves the pump. This prevents the pump from sucking in air through the outlet hose.
- Avoid sharp bends in the pipework that may cause the hose to become kinked.
- Keep all pipework lengths as short as possible. Unnecessary inlet or outlet hose length makes the pump harder to operate.
- Secure the pipework so that the hoses cannot move and chafe, and so that they do not exert any leverage on the hose tail fittings to which they are connected.
- If it is difficult to fit the hose onto any hosedtails, soften the hose by dipping the end of it in hot water.

**CAUTION: Do NOT apply flame to the hoses. Do NOT apply flame or heat to any plastic hosedtails.
Do NOT apply sealing compounds to any hose connections.**

- Secure the ends of all hoses to the hosedtails with stainless steel wormdrive hoseclips, ensuring that all inlet connections are airtight and that all outlet connections are watertight.

6 HANDLE

Store the handle close to the pump in spring clips.

- Using the hole provided in the stainless steel handle, secure it with a lanyard to the mounting surface of the pump.

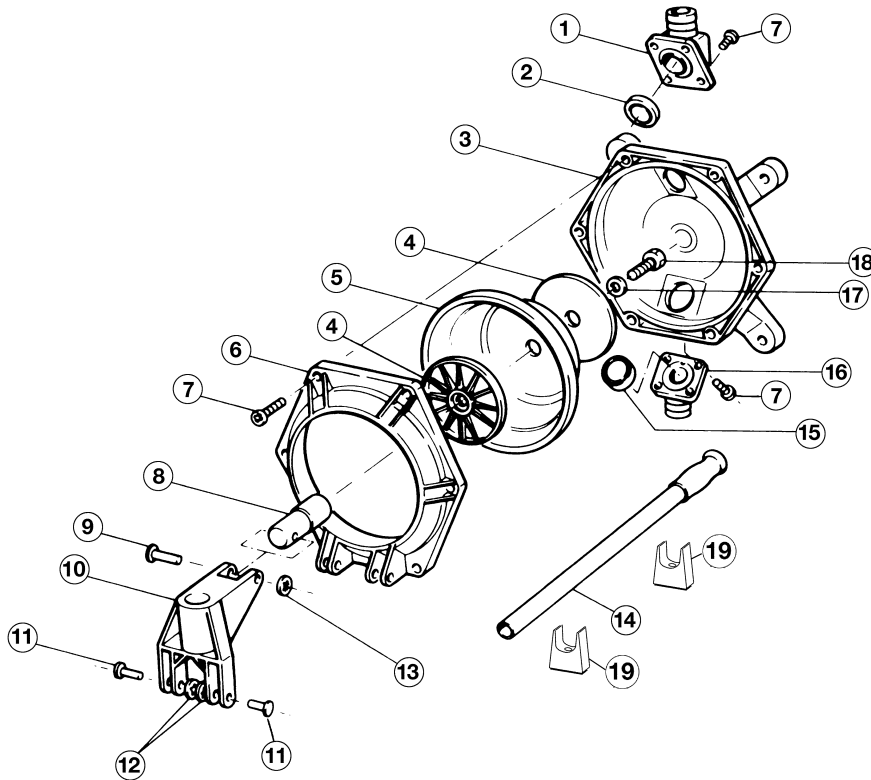
OPERATING INSTRUCTIONS

Amazon pumps are simple to operate.

- If your pump is installed through the deck, first swing the white lid of the deck cover through 180° and snap it into its open position.
- Then just insert the end of the pump handle into the socket on the rocker arm, and move the handle backwards and forwards.
- For maximum efficiency, use even strokes through the full arc of travel of the handle.
- Expect the pump to prime and begin to discharge after a few strokes.
- After use, remove the handle and return it to its storage position.
- Close the white lid of the deck cover.

EXPLODED VIEW & PARTS LIST

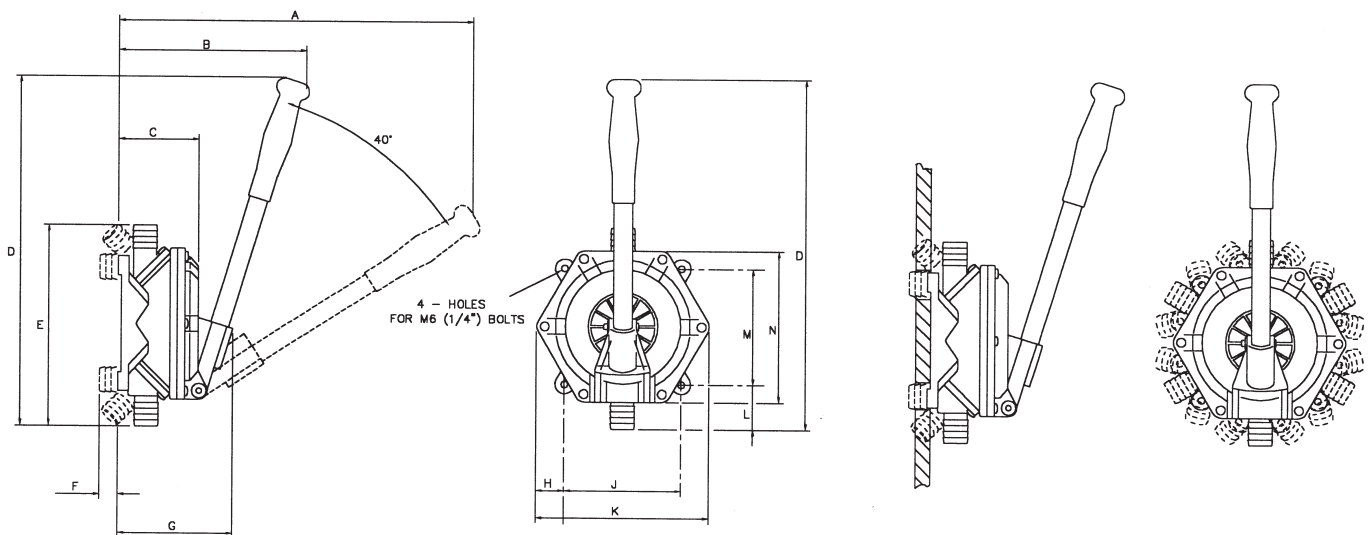
29240-0000 Bulkhead



REPAIR KITS AVAILABLE		
KIT	PART NO	DESCRIPTION
A	29246-1000	MAJOR SERVICE KIT
B	29241-1000	PORTS KIT
C	29243-1000	CLAMP RING & ROCKER KIT

KEY	DESCRIPTION	QTY PER PUMP	PART NO	QTY PER REPAIR KIT		
				A	B	C
1	OUTLET PORT	1			1	
2	OUTLET VALVE	1		1	1	
3	BODY	1	29242-1000			
4	DIAPHRAGM PLATE	2				2
5	DIAPHRAGM	1		1		
6	CLAMP RING	1				1
7	SCREW	14		3	2	3
8	CON ROD	1				1
9	PIVOT PIN (LONG)	1				1
10	ROCKER	1				1
11	PIVOT PIN (SHORT)	2				2
12	STARLOCK WASHER	2				2
13	STARLOCK WASHER	1				1
14	HANDLE	1	29267-1000			
15	INLET VALVE	1		1	1	
16	INLET PORT	1		1		
17	WASHER	1		1	1	
18	BOLT	1				1
19	HANDLE CLIPS	2				

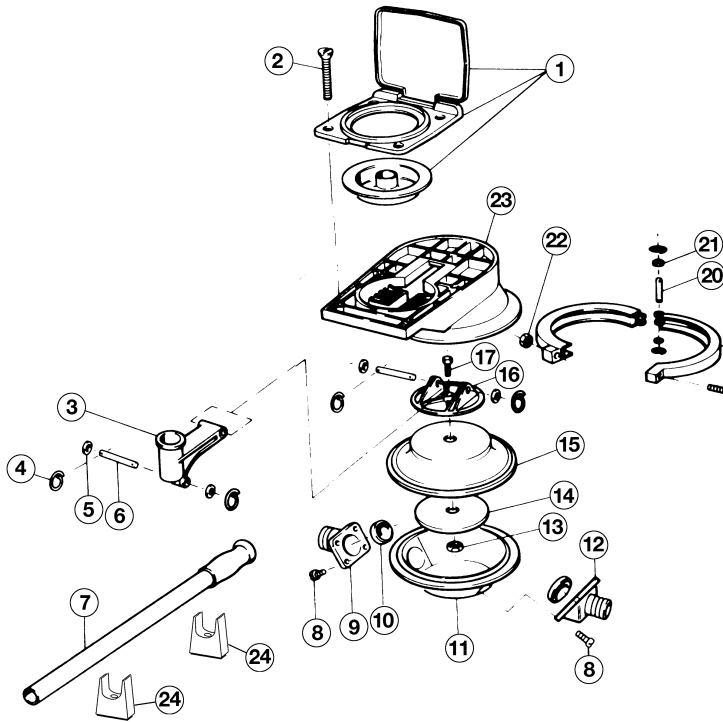
DIMENSIONS



A	B	C	D	E	F	G	H	J	K	L	M	N	UNITS	WEIGHT
362	192	82	357	204	19	120	28.5	119	176	46	119	155	mm	0.6 kg
(14.3)	(7.6)	(3.3)	(14)	(8)	(0.8)	(4.8)	(1.1)	(4.7)	(7)	(1.8)	(4.7)	(6.1)	(ins)	(1.4) (lbs)

EXPLODED VIEW & PARTS LIST

29250-0000 Thrudeck

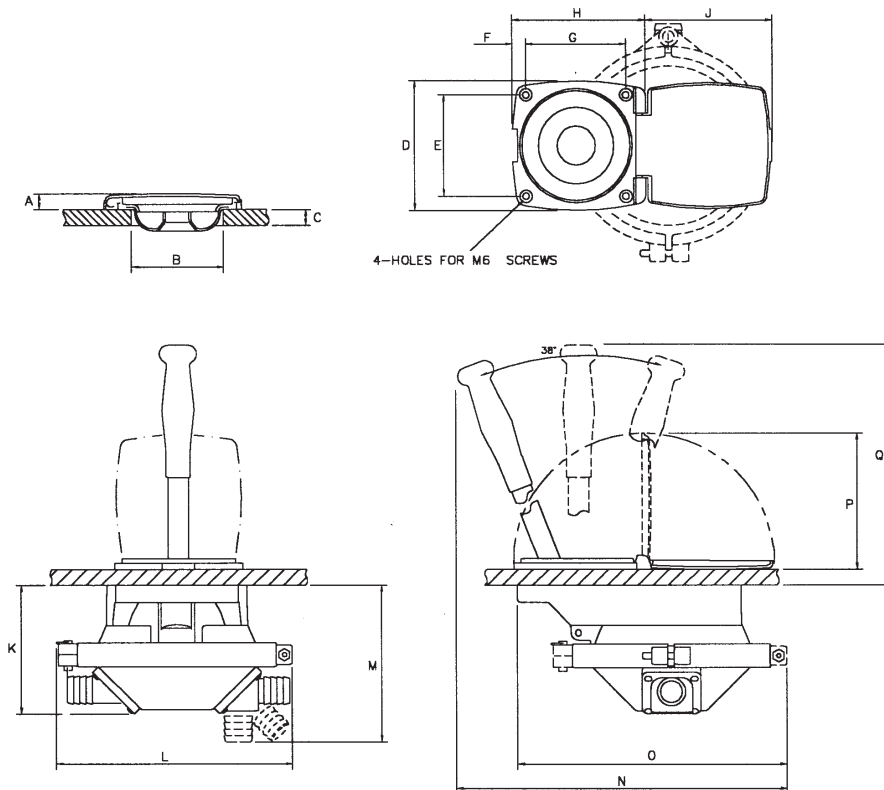


REPAIR KITS AVAILABLE

KIT	PART NO	DESCRIPTION
A	29256-1000	MAJOR SERVICE KIT
B	29241-1000	PORTS KIT
C	29252-1000	CLAMP RING ASSEMBLY
D	29254-1000	ROCKER ASSEMBLY

KEY	DESCRIPTION	QTY PER PUMP	PART NO	QTY PER REPAIR KIT			
				A	B	C	D
1	THROUGH DECK KIT	1	29279-0000				
2	SCREW	4					
3	ROCKER	1					1
4	RING CLIP	6				2	4
5	WASHER	4					4
6	PIVOT PIN	2					2
7	HANDLE	1	29267-1000				
8	SCREW	8		2	2		
9	OUTLET PORT	1				1	
10	FLAP VALVE	2		2	2		
11	LOWER BODY	1	29258-1000				
12	INLET PORT	1				1	
13	NYLOC NUT	1				1	1
14	DIAPHRAGM PLATE (LOWER)	1					1
15	DIAPHRAGM	1				1	
16	DIAPHRAGM PLATE (UPPER)	1					1
17	BOLT	1					1
18	SCREW	1				1	1
19	DIAPHRAGM CLAMP RING	2				2	
20	PIVOT PIN (CLAMP)	1					1
21	WASHER	2					2
22	NUT	1					1
23	UPPER BODY	1	29251-1000				
24	HANDLE CLIPS	2					

DIMENSIONS

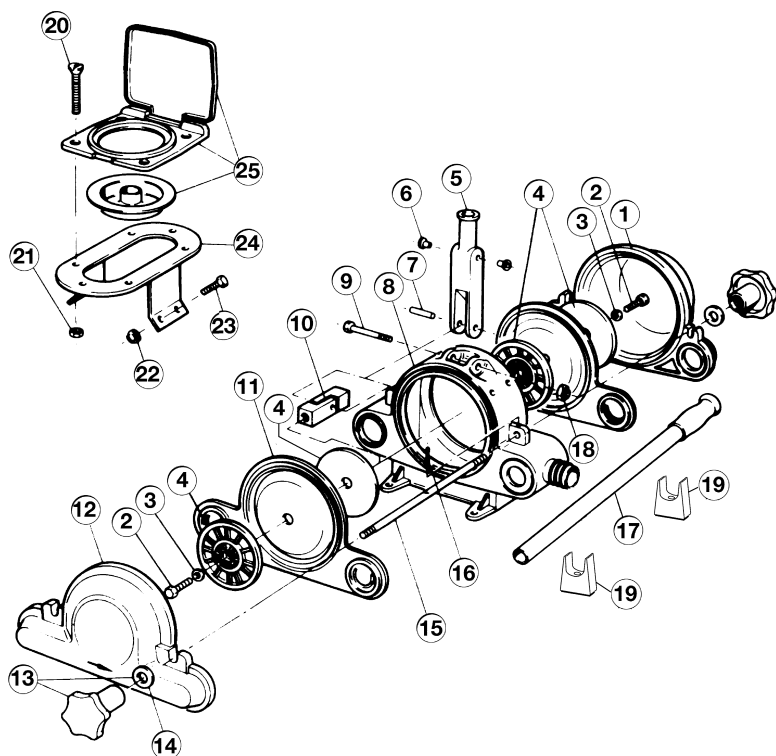


A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	UNITS	WEIGHT
14.5	Ø86	5-22	120	94	12.8	94	129	115	121	218	147	310	252	129	277	mm	1.2 kg
(0.6)	(3.4)	(0.209)	(4.7)	(3.7)	(0.5)	(3.7)	(5.1)	(4.5)	(4.8)	(8.58)	(5.8)	(12.2)	(9.9)	(5.1)	(10.9)	(ins)	(2.5) (lbs)

P	Q	R	S	T	V	W	X	Y	Z	AA	BB	UNITS	WEIGHT
390 (15.4)	242 (9.5)	41 (1.6)	156 (6.1)	33 (1.3)	405 (16)	238 (9.4)	26 (0.5)	149 (6)	498 (196)	244 (9.6)	192 (7.5)	mm (ins)	1.2 kg (2.9 lbs)

EXPLODED VIEW & PARTS LIST

29280-0000 Warrior



REPAIR KITS AVAILABLE

KIT	PART NO	DESCRIPTION
A	29286-1000	MAJOR SERVICE KIT
B	29283-1000	BODY KIT
C	29284-1000	ROCKER KIT

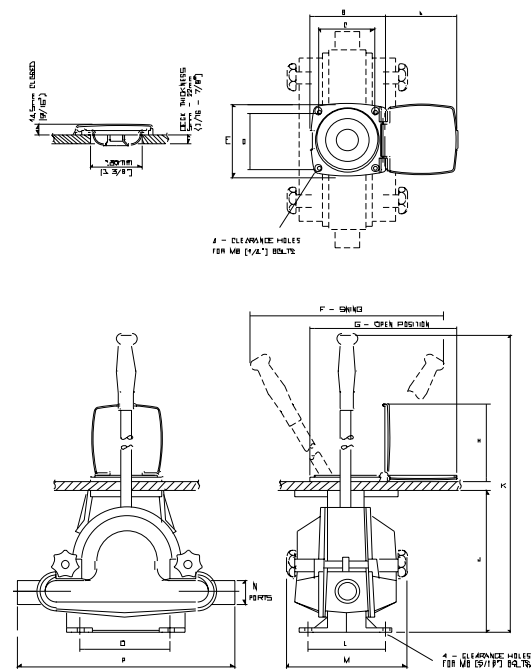
KEY	DESCRIPTION	QTY PER PUMP	PART NO	QTY PER REPAIR KIT		
				A	B	C
1	LEFT HAND COVER PLATE	1	29281-1000			
2	BOLT (DIAPHRAGM PLATE)	2			2	
3	WASHER	2		1	2	
4	DIAPHRAGM PLATE	4			4	
5	ROCKER ARM	1			1	
6	BUSH				2	
7	PIVOT PIN	1			1	
8	BODY	1			1	
9	BOLT (ROCKER ASSEMBLY)	1			1	
10	CONROD	1			1	
11	DIAPHRAGM	2		2		
12	RIGHT HAND COVER PLATE	1	29282-1000			
13	KNOB & WASHER ASSY	4	29288-1000			
14	WASHER (STUD)	4			2	
15	LONG STUD	2			2	
16	ROLL PIN	2			2	
17	HANDLE	1	29287-1000			
18	NUT (ROCKER ASSEMBLY)	1			1	
19	HANDLE CLIPS	2				

OPTIONAL EXTRAS AVAILABLE

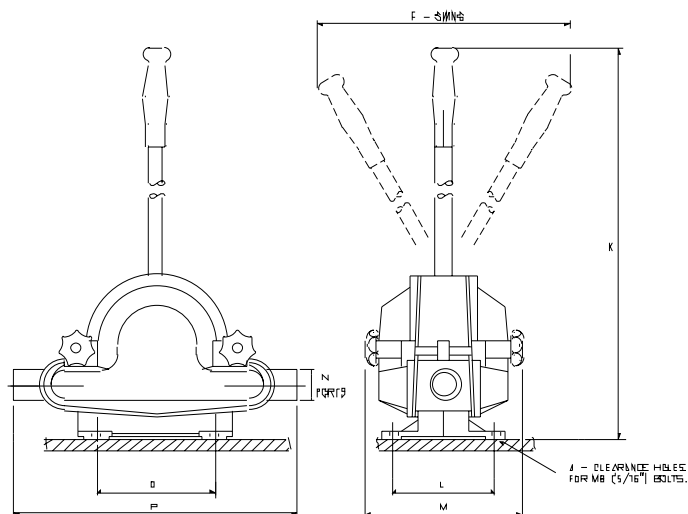
KEY	DESCRIPTION	QTY PER PUMP	PART NO
20	SCREW	6	29289-0000
21	NUT	6	
22	NUT	4	
23	BOLT	4	
24	UNDERDECK BRACKET	1	
25	THROUGH DECK KIT	1	29279-0000

DIMENSIONS

Through Deck Mounting



On Deck Mounting



F	K	L	M	N	O	P	UNITS	WEIGHT
310	680	130	200	38.1	150	355	mm	4.40 kg
(12.2)	(27)	(5.1)	(8)	(1.5)	(6)	(14)	(ins)	(9.7) (lbs)

A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	UNITS	WEIGHT
14.5	Ø86	5-22	120	94	12.8	94	129	115	121	218	147	310	252	129	mm	1.2 kg
(0.6)	(3.4)	(0.2-0.9)	(4.7)	(3.7)	(0.5)	(3.7)	(5.1)	(4.5)	(4.8)	(8.58)	(5.8)	(12.2)	(9.9)	(5.1)	(ins)	(2.5) (lbs)

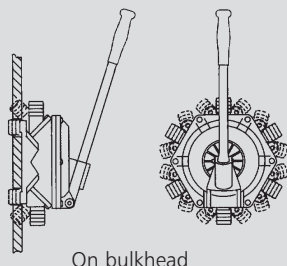
AMAZON BULKHEAD

For surface mounting on bulkhead or deck

- Repositionable ports and body offer an amazing 96 assembly variations
- Complete with stainless steel handle, mounting clips and provision for safety lanyard
- Sustainable outputs up to 45 lpm (10 gpm)

Connections for 25mm (1") id hose

29240-000 Bulkhead pump c/w detachable handle



AMAZON UNIVERSAL

For mounting on bulkhead, through bulkhead, on deck, or through deck (with optional through deck kit).

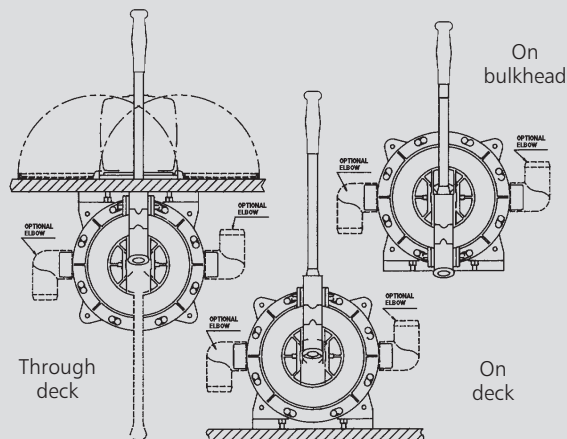
- Flow direction can be changed 180° by interchanging inlet and outlet ports
- Optional push-fit inlet and outlet elbows swivel through 360° to increase flexibility of installation still further
- Unique safety feature allows operation from both inside and outside the cabin (with optional through deck kit)
- Quick release clamp ring gives fast access for blockage clearance
- Complete with stainless steel handle, mounting clips and provision for safety lanyard
- Impressive features are matched by impressive flow rate of up to 100 lpm (22 gpm)
- Excellent solids handling ability for use with holding tanks

Connections for 38mm (1½") id hose

29270-0000 Universal pump, c/w detachable handle and one push-fit elbow

29279-0000 Optional through deck kit

29266-1000 Additional push-fit elbow



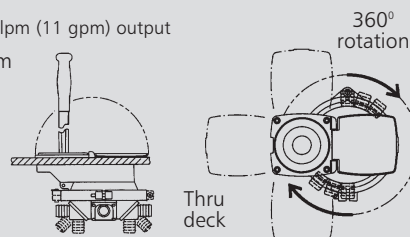
AMAZON THRUDECK

For mounting through deck or through bulkhead

- The ultimate compact through deck pump with no less than 16 port variations relative to the body
- Loosening just one screw lets you clear blockages or re-position the body anywhere through 360° relative to the handle position
- Complete with stainless steel handle, mounting clips and provision for safety lanyard
- Sleekly styled through deck kit and cover, with 4 mounting positions relative to the pump
- Readily achievable 50 lpm (11 gpm) output

Connections for 25mm (1") id hose

29250-0000 Thru deck pump, c/w detachable handle and through deck kit



AMAZON WARRIOR

For mounting on deck or through deck (with optional through deck kit and bracket)

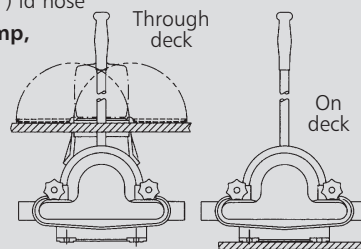
- Robust, alloy body particularly suited to workboat and safety applications
- Double diaphragm design gives maximum efficiency and added safety, because each side of the pump operates independently
- Solid 18" handle assists sustained high outputs of up to 135 lpm (30 gpm)

Connections for 38mm (1½") id hose

29280-0000 Warrior pump, c/w detachable handle

29279-0000 Optional through deck kit

29289-0000 Under deck bracket (required for use with through deck kit)

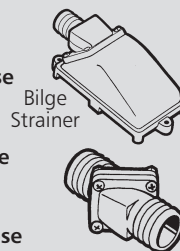


AMAZON ACCESSORIES

29290-0020 Bilge strainer for 19mm (¾") id hose

29290-0000 Bilge strainer for 25mm (1") id hose

29290-0010 Bilge strainer for 38mm (1½") id hose



29295-0011 In-line non-return valve for 19mm (¾") id hose

29295-0000 In-line non-return valve for 25mm (1") id hose

29295-0010 In-line non-return valve for 38mm (1½") id hose

In-line Non-Return Valve

Jabsco



ITT Industries
Engineering for life

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