



MARINE BILGE PUMPS



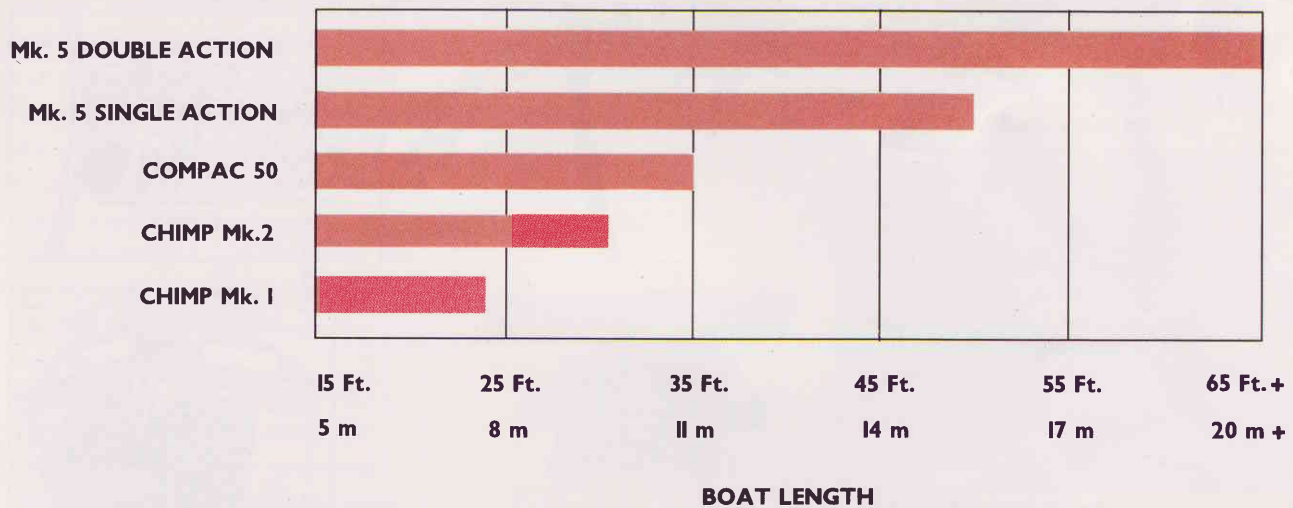
**Henderson**

# BILGE PUMP SELECTION GUIDE



The table below is a guide to help you select a suitable pump for your boat. Look for your boat length along the bottom of the table and then identify the range of pumps whose performance falls within your boat length.

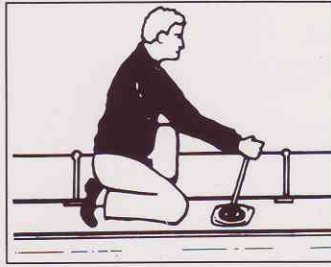
Please note that factors such as intended use and installation are also important when choosing a pump. In all cases it is recommended that you fit the largest capacity pump possible.



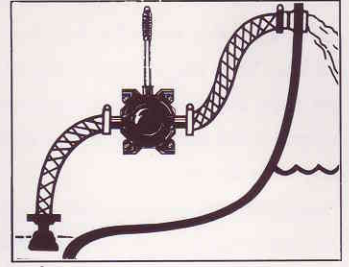


# HELPFUL HINTS

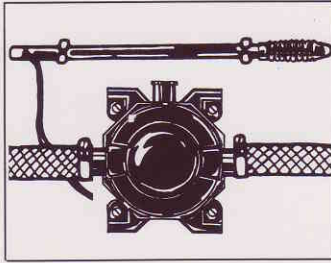
1. Install pump where it is easily accessible and can be operated comfortably.
2. For minimum pumping effort, install the pump halfway between the strainer and the outlet.
3. If the pump handle is detachable, it is recommended that you secure the handle in a position convenient to the pump.
4. The suction inlet should be at the deepest point in the bilge.
5. If using thru-hull discharge, ensure that the skinfitting is well above the water line.
6. Check all fittings are of uniform bore - restricted inlet makes pumping difficult, restricted outlet can cause choking.
7. Carry a service kit for each pump on board and test the pumps regularly.



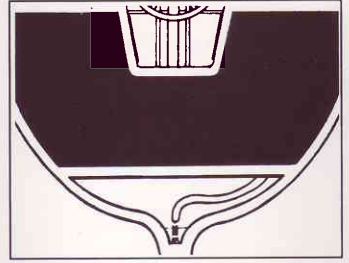
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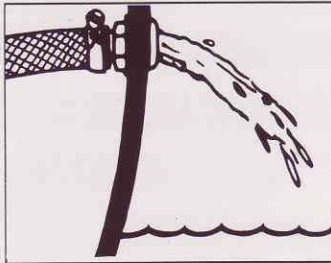
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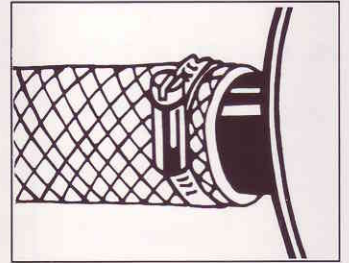
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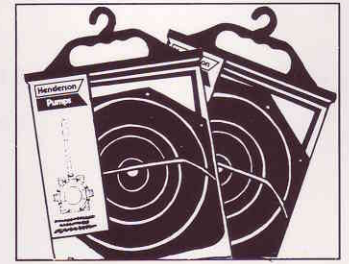
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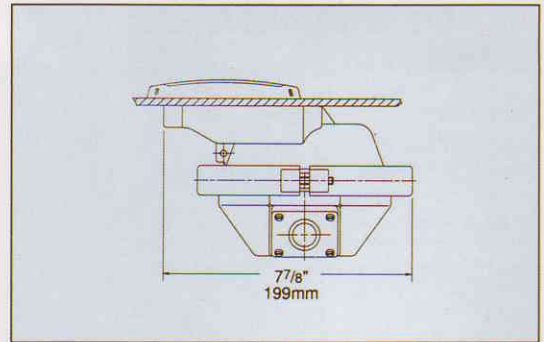
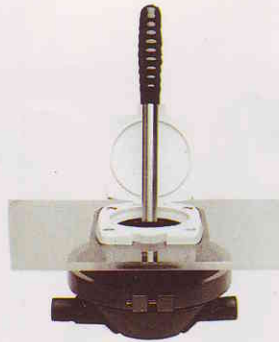


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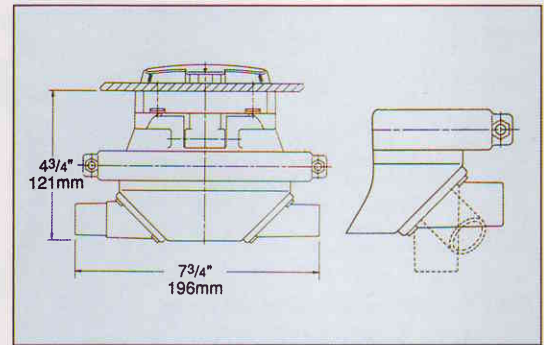
# COMPAC 50



COMPAC 50		
PERFORMANCE		
Lift = 1m		
Head = 0.5m	Metric	Imperial
Output at 60 strokes per minute	39 Ltr.	8 Gal.
at 80 strokes	49 Ltr.	10 Gal.
Max. Lift	3 m	10 Ft.
Max. Head	4 m	13 Ft.
Weight	0.9 Kg	2 lbs
Hose Bore	25mm	1"
Service Kit	MH8035	
Materials: Stainless steel, glass reinforced polypropylene, acetal copolymer, nylon, nitrile rubber EPDM rubber.		



▲ Compac 50 MH0350



▲ Compac 50 MH0350

The Compac 50 is a high output pump ideal for both sail and powerboat applications. Extensive research and application of the latest technology, makes this one of the most innovative covered diaphragm bilge pumps available. Designed specifically for low profile installation under deck or through bulkhead where space is limited, the Compac 50 combines the already tried and tested features of existing Henderson pumps with even greater versatility. The Compac 50 is quick and easy to fit and offers a wide variety of possible installation configurations.

- Supplied complete with deck-plate.
- Mounting hole positions are square giving a choice of pump stroke direction relative to the position of the deck-plate.
- Only 4 screws are required for installation with the nuts held captive in the pump body.
- Inlet/Outlet are set at 45 degrees relative to the pump body and their square base, giving 4 possible hose directions on each side.
- Pump body can be rotated to accommodate the direction of the hose.

# Mk. 5 UNIVERSAL PUMP



## Mk.5 UNIVERSAL PUMP

### PERFORMANCE

Lift = 1m		
Head = 0.5m	Metric	Imperial
Output at 60 strokes per minute	56 Ltr.	12 Gal.
at 80 strokes	75 Ltr.	16 Gal.

Max. Lift	4.5 m	15 Ft
Max. Head	4.5 m	15 Ft
Weight	1.1 Kg	2.4 lbs
Hose Bore	38 mm	1 1/2"
Service Kit	MH8050	
Deck Kit	MH9904	MH9901
	White	Black

#### Materials:

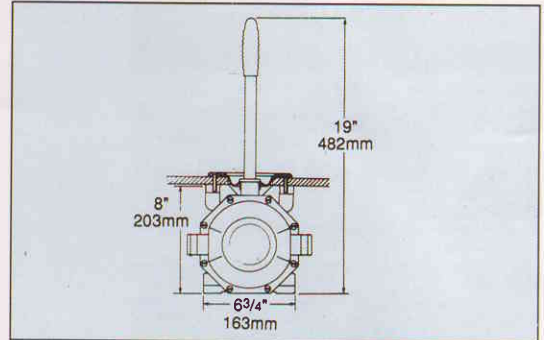
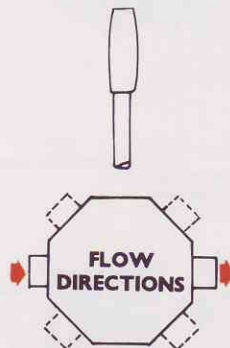
Stainless steel, phosphor bronze, acetal, glass reinforced polypropylene, nitrile rubber.



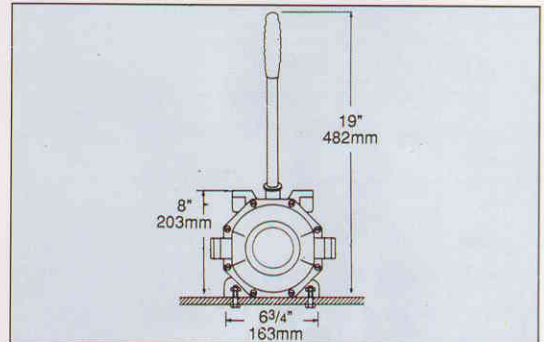
The Mk.5 Universal has been designed for medium-sized craft where a cost-effective high output pump is required that offers a variety of possible installation options (see chart on page 1).

The versatile design of the rear cover and rocker arm of the Universal enable it to be installed on deck, through deck, on bulkhead or through bulkhead, without modification. Simply by removing the screws in the front cover, the position of the inlet and outlet can also be varied to suit the hose direction.

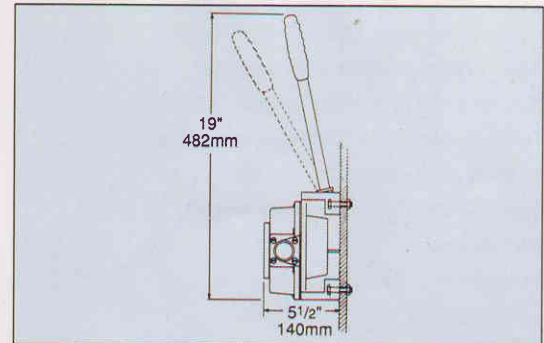
The efficiency of the Mk.5 ensures high throughput coupled with an easy pumping action. Like the other Mk.5 Single-Action pumps, the Universal is moulded in tough plastics which protect against corrosion and provide a lightweight but robust construction.



▲ Mk5 Universal Thru Deck/Bulkhead MH0510



▲ Mk5 Universal Deck Mounting MH0510



▲ Mk5 Universal Bulkhead Mounting MH0510

# Mk.5 SINGLE ACTION PUMPS



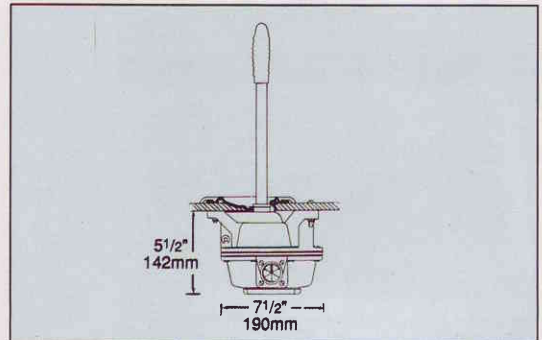
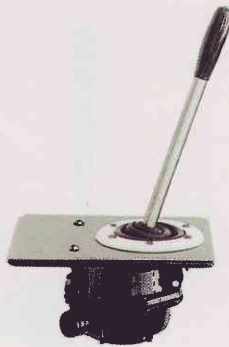
## Mk.5 SINGLE ACTION PUMPS

### PERFORMANCE

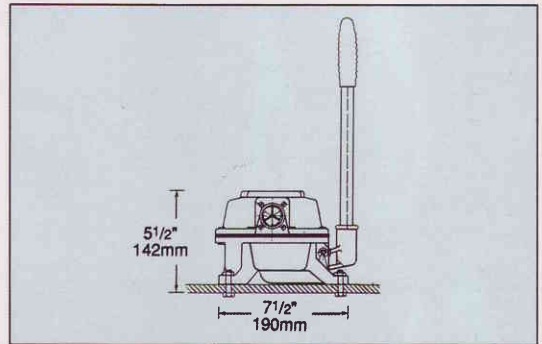
Lift = 1m		
Head = 0.5m	Metric	Imperial
Output at 60 strokes per minute	56 Ltr.	12 Gal.
at 80 strokes	75 Ltr.	16 Gal.
Max. Lift	4.5m	15 Ft
Max. Head	4.5m	15 Ft
Weight	1.1 Kg	2.4 lbs
Hose Bore	38mm	1 1/2"
Service Kit	MH8050	
Materials: Stainless steel, phosphor bronze, acetal, glass reinforced polypropylene nitrile rubber.		

The Mk.5 covered diaphragm pump has been designed for medium-sized craft where higher output is required. The free-flow valve design makes the Mk.5 ideal for a variety of other pumping applications such as diesel transfer and emptying effluent tanks (see chart on page 1). Three models are available for mounting on deck, on bulkhead and through deck/bulkhead (comes complete with deck-plate).

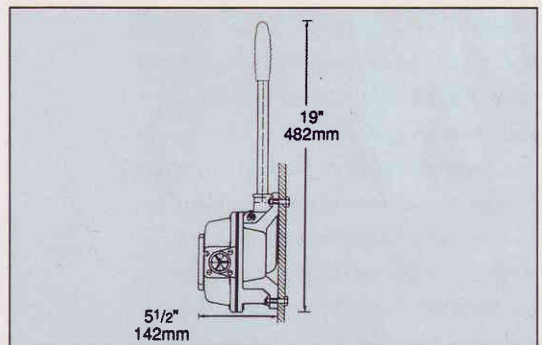
Designed with safety in mind, tough plastics protect the MK.5 against corrosion and the quick release cover makes for easy access and inspection of the diaphragm and valves.



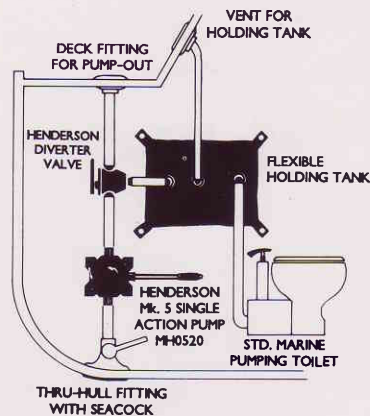
▲ Mk5 Thru Deck/Bulkhead U/D **MH0530**



▲ Mk5 On Deck L/T **MH0540**



▲ Mk5 On Bulkhead T/A **MH0520**





# Mk. 5 DOUBLE ACTION PUMPS

## Mk.5 DOUBLE ACTION PUMPS

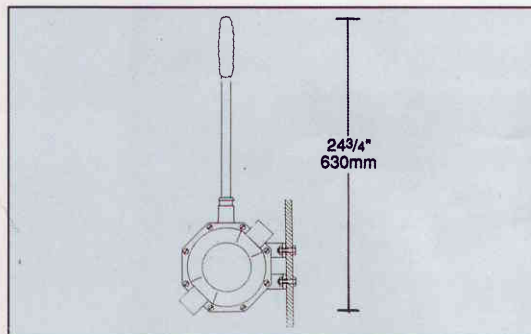
### PERFORMANCE

Lift = 1m		
Head = 0.5m	Metric	Imperial
Output at 60 strokes per minute	104 Ltr.	22 Gal.
at 80 strokes	131 Ltr.	29 Gal.
<hr/>		
Max. Lift	4.5 m	15 Ft
Max. Head	4.5 m	15 Ft
Weight	2.8 Kg	6 lbs
Hose Bore	38mm	1 1/2"
Service Kit	MH8060	
Materials: Aluminium alloy, stainless steel, phosphor bronze, acetal copolymer, polypropylene, nitrile rubber, neoprene rubber.		

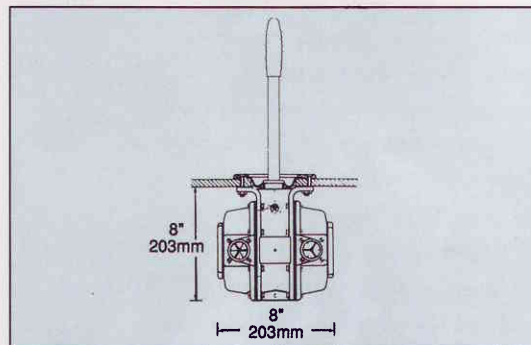
The Mk.5 Double Action is ideal for larger craft where high output is required (see chart on page 1). Its impressive performance belies its weight of only 2.75 Kg (6.1 lbs), which means that it pumps nearly its own weight in water on each stroke!

Three models are available for mounting on deck, on bulkhead or through deck/bulkhead (comes complete with deck-plate).

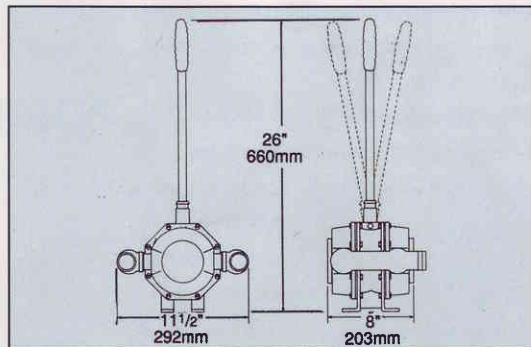
Twin diaphragms allow the Mk.5 Double Action to empty two separate bilge compartments at the same time, or one twice as quickly, using the two manifolds supplied. Even if one bilge runs dry, pumping of the other can continue unimpaired.



▲ Mk5 On Bulkhead D/A-B MH5550



▲ Mk5 Thru Deck/Bulkhead D/A-T MH5560



▲ Mk5 On Deck D/A-D MH5570

# WATERTIGHT LOCKER DOORS



## WATERTIGHT LOCKER DOORS

DIMENSIONS		
Model	Overall Dimension	Max. Aperture
MH 2000	236mm dia 9 1/4"	179mm dia 7"
MH3000	187mm x 125mm 7 3/8" x 5"	143mm x 82.5mm 5 3/8" x 3 1/4"
MH4000	236mm dia.	179mm dia.
MH4002	9 1/4"	7"

Wherever you need a watertight locker with quick access opening, Henderson Locker Doors provide a reliable watertight seal and yet have easy access via a camlocking lever or captive screw closure.

There are three types:

### TCL/4 (MH4000 & MH4002)

An all-plastic version, the TCL/4 is approved for use in ships' lifeboats. Model MH4002 comes with a translucent cover. A captive screw locking ring is used to close the cover against a nitrile rubber seal.

### TCL/3 (MH3000)

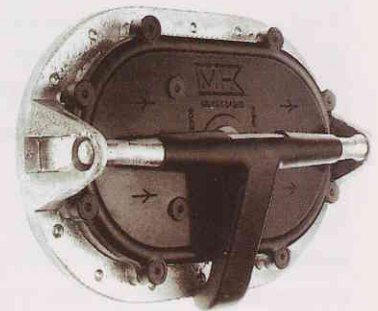
A Compact locker door with a large enough aperture to allow access, yet small enough to fit into narrow bulkheads. Made of aluminium with a camlock cover the TCL/3 is specially useful in environments where there is likely to be a lot of sand in seawater. The camlock cover will not jam if sand gets into the closure area and the nitrile rubber seal ensures integrity against water.

### TCL/2 (MH2000)

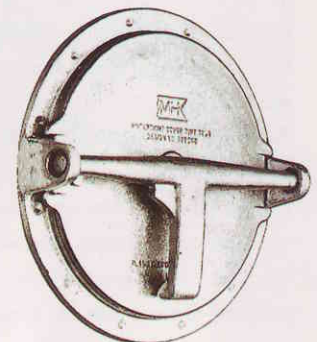
An all aluminium circular tank cover lid with a nitrile rubber seal with a camlocking cover. As correct spacing of fastenings is crucial, drill marks are provided around the flange.



▲ TCL/4 (MH4000)



▲ TCL/3 (MH3000)



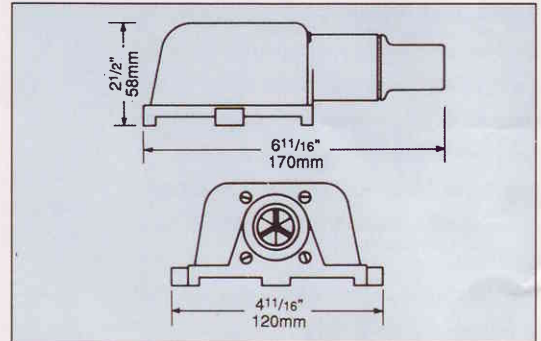
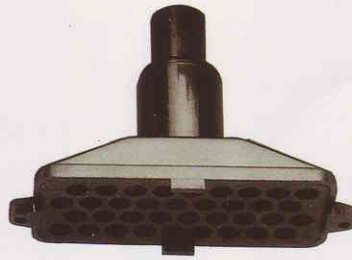
▲ TCL/2 (MH2000)

# STRUMBOXES/STRAINERS

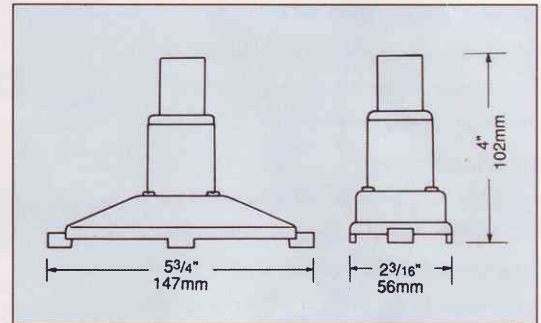
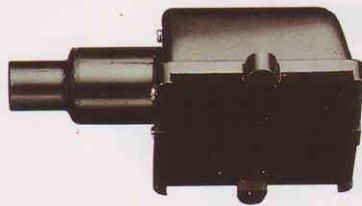
As essential pieces of equipment for bilge pumps, strumboxes are fitted with easily removed strainer to reduce the chance of the pump suction pipe becoming blocked with debris in the bilge. A non-return valve is fitted as standard to assist priming and prevent drain-back into the bilge when pumping stops.

Moulded tail pipes are designed to allow for 25mm (1") or 38mm (1 1/2") bore hose, the 25mm (1") piece being cut off when used with 38mm (1 1/2") hose.

Two models are available - a side entry strumbox for a wide/round bilge and a top-entry strumbox for a narrow bilge or keel box.



▲ Side-Entry Strumbox **MH4202**



▲ Top-Entry Strumbox **MH5802**

# ELBOWS, Y-PIECES & SKIN FITTINGS

## Elbows

90° elbows facilitate hose connection to/from bilge pumps in tight corners. (Male-Female).

## Y-Pieces

Moulded from durable plastic the Y-piece (Male-Male) 38mm (1 1/2") enables two pumps to discharge through the one outlet.

## Skin Fittings

A vital component in the bilge pump or holding tank system where quality should not be compromised. Henderson Skin Fittings are manufactured to a high standard and are available in 25mm (1") or 38mm (1 1/2") sizes.



▲ Elbow **MH3303** - 25mm (1") hose  
**MH3400** - 38mm (1 1/2") hose



▲ Y-Pieces **MH6108** - 38mm (1 1/2") hose



▲ Skin Fittings **MH6520** - 25mm (1") hose  
**MH6540** - 38mm (1 1/2") hose

# VALVES

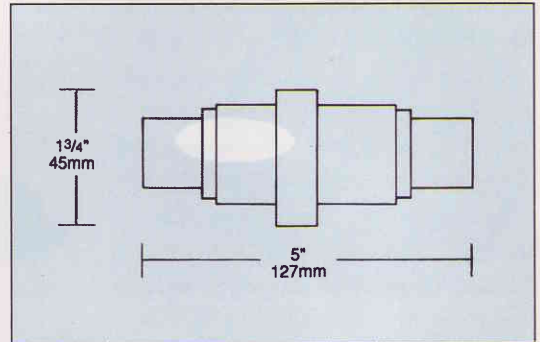


## Non-Return Valve

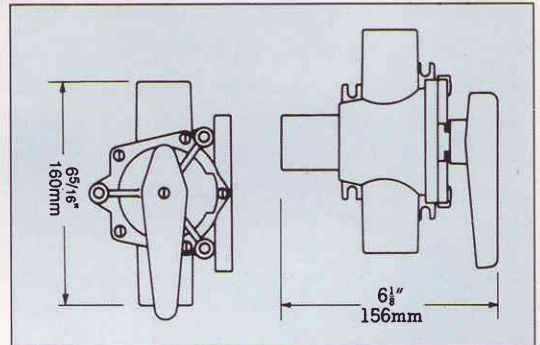
The Henderson in-line non-return valve (or check valve) is designed to be fitted in the suction line of a manual bilge pump to assist priming, particularly if there is a long run of hose. Moulded inlet/outlet can accommodate 25mm (1") and 38mm (1 1/2") bore hose.

The Henderson in-line check valve can also be placed on the discharge side of an electric bilge pump to correct cycling caused by drainback.

The stepped inlet/outlet can also serve as a hose adaptor to join hose of 25mm (1") and 38mm (1 1/2") bore.



▲ Non-Return Valve **MH1200**



▲ Diverter Valves **MH5616/MH5608**

## Diverter Valves

Available for 25mm (1") MH5616 or 38mm (1 1/2") MH5608 bore hose, the Henderson Diverter Valve is a two-way valve for installation in the suction or discharge side of bilge pumps.

This enables one pump to empty one or two bilges or two pumps to be connected to a common discharge point.

The Henderson Diverter Valve can also allow one pump to have a choice of discharge points - for example when pumping effluent to either an inboard holding tank or over the side.

The Valve cannot be used as a seacock or with liquids with a low flashpoint.

For neat installation, the Diverter Valve can be mounted behind a bulkhead. A handle extension kit, ref. MH5632, is available to reach through the bulkhead 19mm (3/4") maximum.