



MASTERPRIME

Single acting self priming
diaphragm pumps suited to effluent
transfer applications on marine &
trade waste applications

MASTERFLOW

OVERVIEW

MASTERPRIME

Masterprime are a self-priming single acting positive displacement diaphragm pump. Medium flow with low head capability, these pumps have internal flap valves for one way flow. Ideal for trade waste, effluent transfer and marine applications as a priming pump.

Available in a range of sizes - 25mm up to 80mm. All parts that come in contact with the pump fluid are marine grade and non-metallic making it ideal for sea water pumping and other rugged applications.

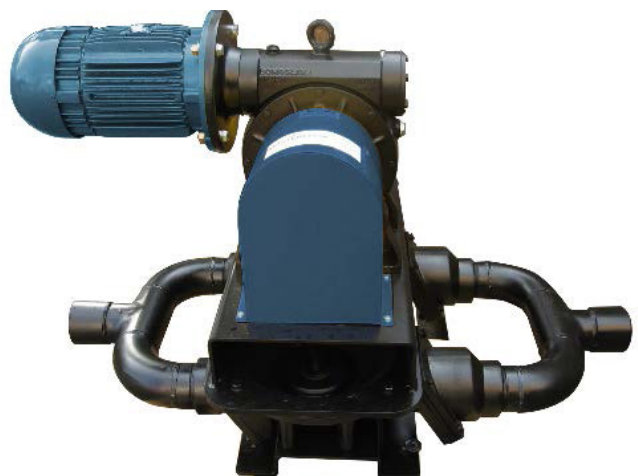
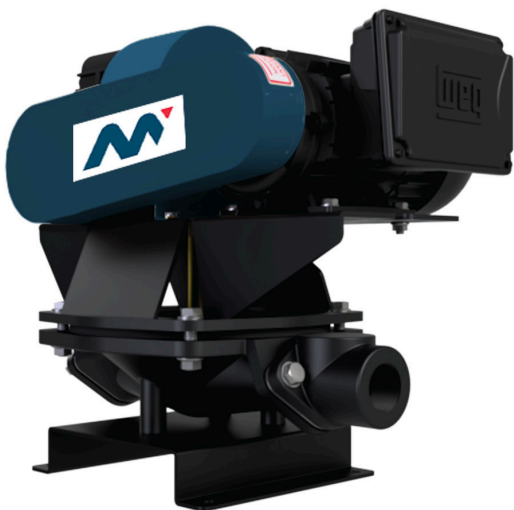
Single or three phase coupled via high quality gear box. Optional version available with engine driven in Rollover frame.

FEATURES AND BENEFITS

- Self-Priming.
- Suction line does not have to be primed
- Can operate on "snore"
- Can pump solid in suspension

APPLICATIONS

- Plant Room Sumps
- Effluent & Trade Waste
- System priming
- Harbour Water transfer
- Bilge Pumping
- Septic Systems



SPECIFICATIONS

PUMP SPECIFICATIONS

Model No.	MT-76	MDT-76
Port Size:	3" (80NB) BSPP Female	3" (80NB) BSPP Female
Max. Flow:	220 L / min	320 L / min
Max. Suction Lift:	5m	5m
Max. Discharge Head:	6m	6m
Max. Solid Size:	50mm	50mm
Weight:	80 KG	125 KG

MOTOR SPECIFICATIONS

Brand:	Weg W22 Three Phase	Weg W22 Three Phase
kW:	1.5	3.0
RPM:	1465	1465
Voltage:	415	415
FLC:	3.19 amps	3.19 amps
IP Rating:	66	66

RECOMMENDED ACCESSORIES

Discharge Pulsation Dampener	Part No. PD2D
Suction Pulsation Dampener	Part No. PD2S
Fluid End Service Kit	Part No. D76K1

MATERIALS OF CONSTRUCTION

CODE	A	OPTIONS
Diaphragm	Nitrile	Neoprene, EPDM & Viton
Valves	Nitrile	EPDM, Viton & Polyurethane
Base Plate	Mild Steel E Coated	Stainless Steel, Carry & Trolley Frame
Body	Aluminum E Coated	
Inlet / Outlet Port	Aluminum E Coated	

MINIMUM INTERNAL PIPE SIZE FOR LIQUIDS WITH SAME VISCOSITY AS WATER

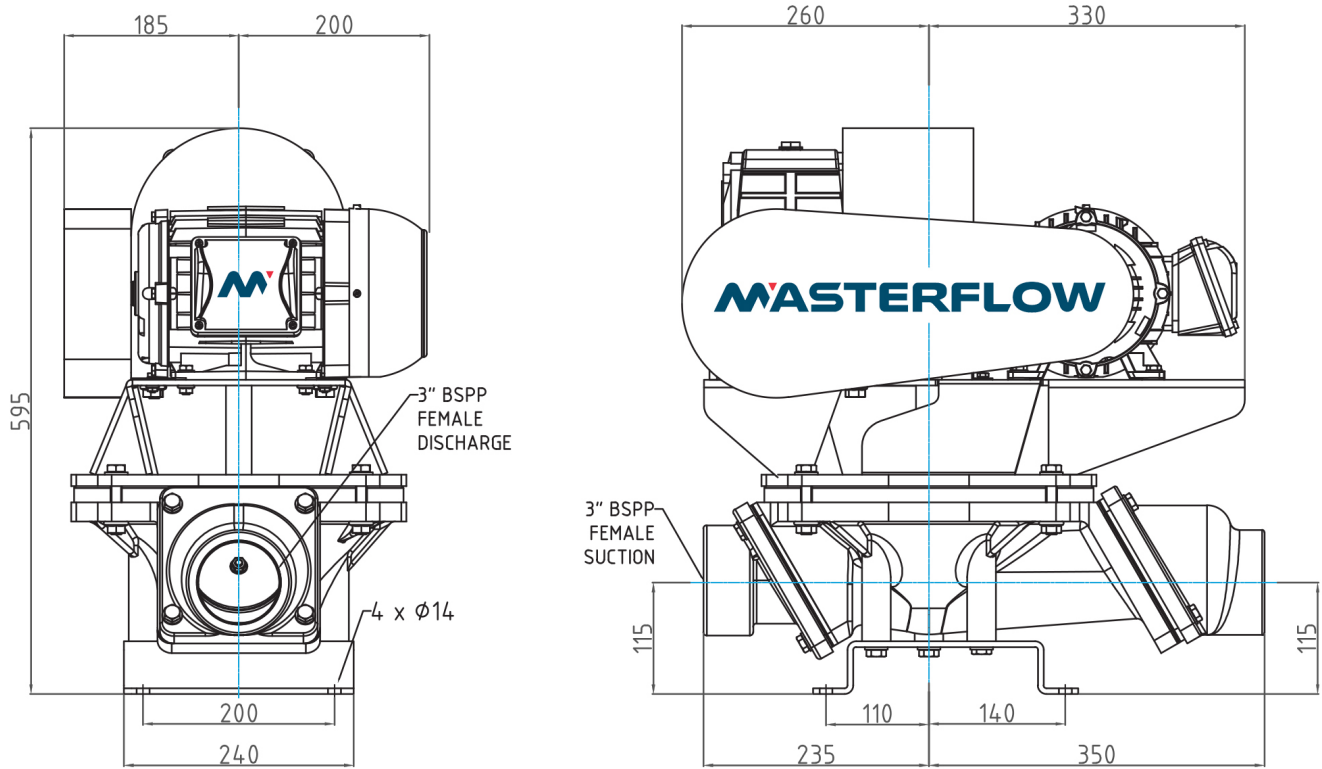
PUMP SIZE	SUCTION PIPE LENGTH M		DISCHARGE PIPE LENGTH M		
	0-5	5-10	0-5	5-10	10-20
M(D)T-76	80	80	80	100	100
	SUCTION PIPE ID IN MM		DISCHARGE PIPE ID IN MM		

USE OF PIPES SMALLER THAN STATED WILL VOID WARRANTY

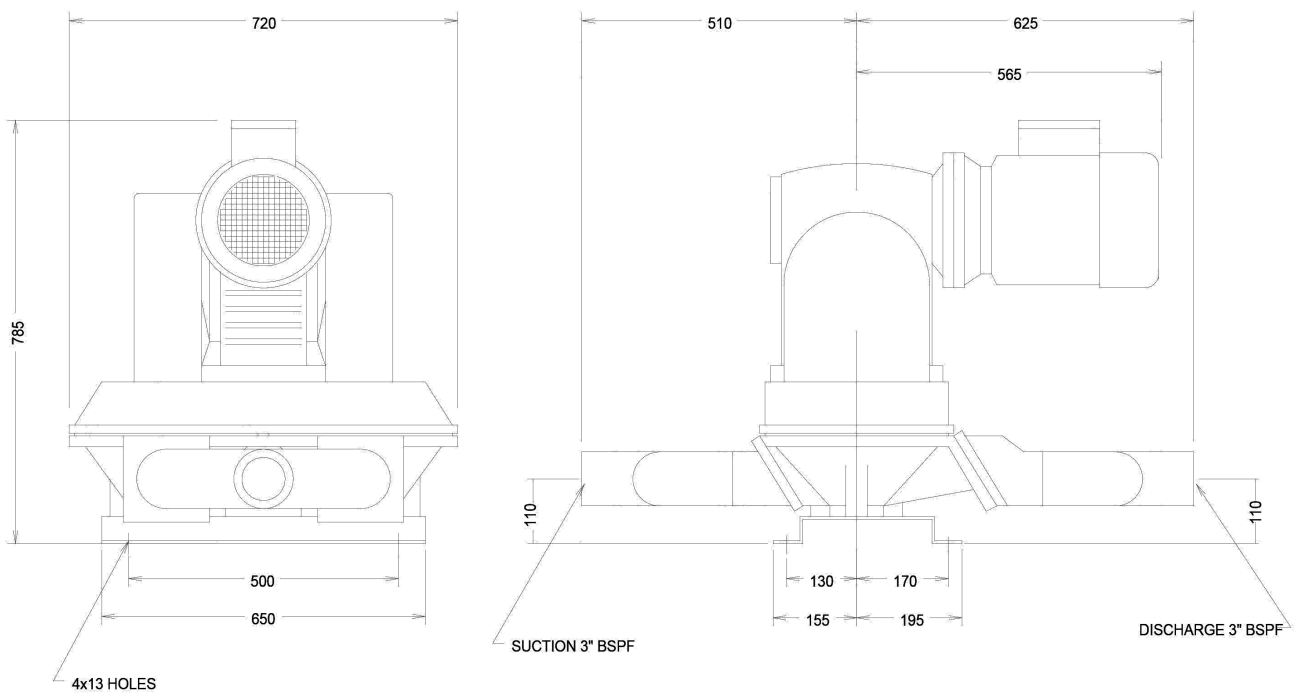
Please refer to D Series Installation & Maintenance manual before installing or servicing the diaphragm pump.

DIMENSIONS

MT-76



MDT-76



HEAD / CAPACITY CALCULATOR

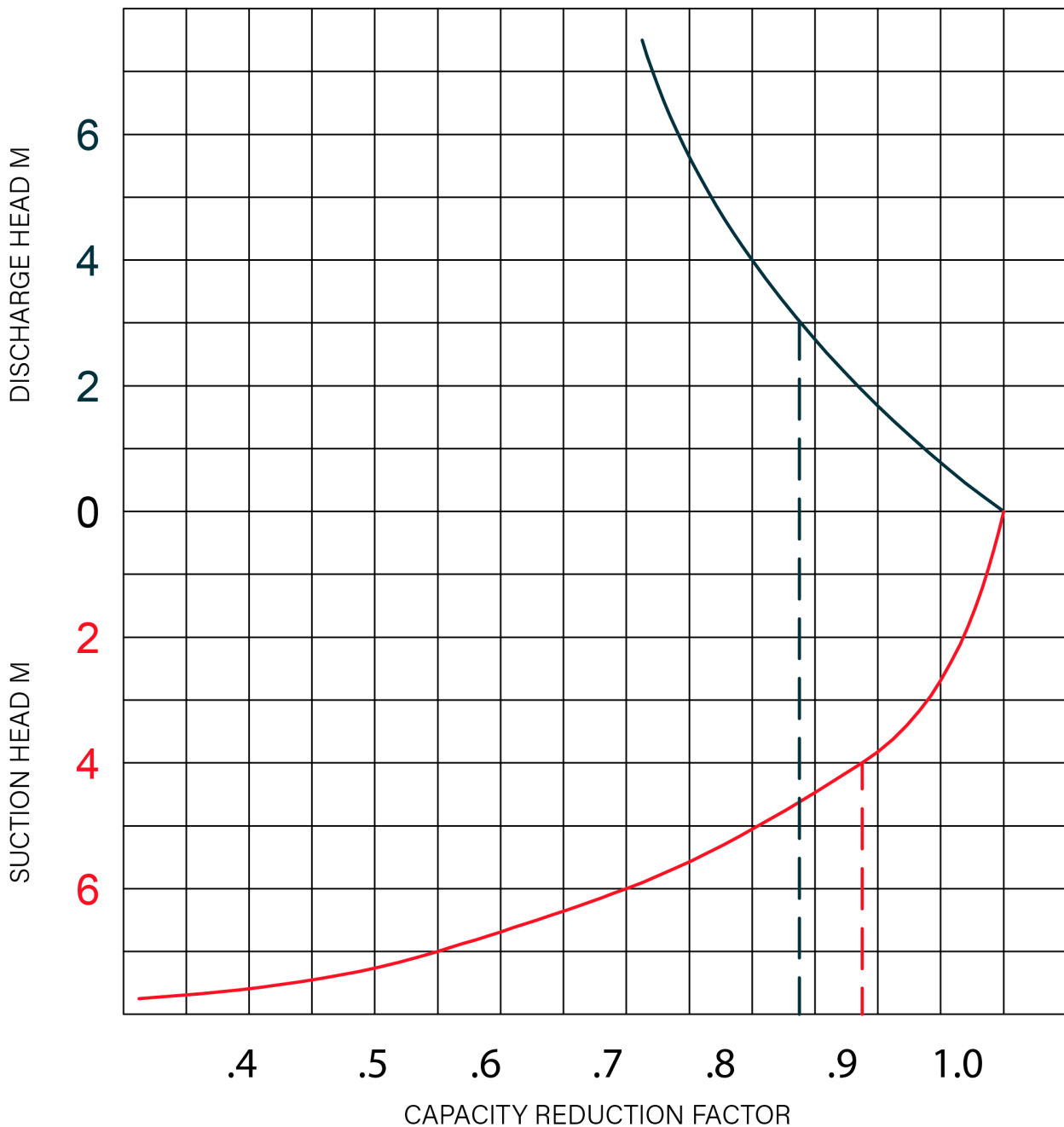
To calculate approximate D Series Diaphragm pump capacity at various heads for clean water, use the reduction table and formula: **Max. Capacity X Suction Factor X Discharge Factor**

Example:

D50 2" (50NB) Max. capacity: 120 Litres / Min.

4m Suction Factor: 0.87 , 3m Discharge Factor: 0.83

Approx. capacity: $120 \times 0.87 \times 0.83 = 86.5$ Litres / Min.





MASTERFLOW

Better by Degrees®

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All content is subject to change without notice.