

Installation Guide

VM-, BM-, HBM-, NDP-, HPR-, GP-, und NEMP-PUMPS

DESCRIPTION

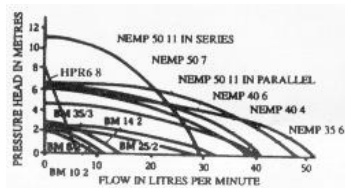
These centrifugal pumps all have components in plastic and magnetic drives. The "NO LEAK" design makes BM, NDP & NEMP pumps suitable for pumping mild acids or alkalis (such as photographic & printing chemicals), sterilisation equipment, recirculation duties hygienic applications and many more.

GP PUMPS ARE SUITABLE FOR WATER DUTIES ONLY. VM PUMPS ARE DESIGNED FOR VENDING MACHINE USE. HPR & HBM ARE FOR SODA WATER.

Materials in contact with fluids.

NEMP & NDP-PLYPROPYLENE, ALUMINA CERAMIC, O-RINGS IN NITRILE, VITON OR EPDM VM, BM IS AS ABOVE BUT WITH EXPOSED FERRITE MAGNET, GP - PP, PPS, BRASS, O-RING IN NITRILE.

PERFORMANCE



HPR, HBM, NDP & VM PERFORMANCE SIMILAR TO BM PERFORMANCE OF SIMILAR SIZE.

i.e. BM 10/2 = NDP 10/2

GP PERFORMANCE SIMILAR TO NEMP PERFORMANCE

INSTALLATION

PUMP CONNECTION: Connect pump to pipework etc. using appropriate fittings. Avoid over-tightening fittings since damage to threads and ports may occur. Pump and pipework should be adequately supported and correctly fitted to avoid shock loading and strain on pump and ist ports.

Do not mount pump vertically with motor above pump. Any additional information required i.e. installation drawings etc. will be packed in the box with the pump.

A minimum of 12mm clearance should be provided between the pump and surrounding parts of the installation to ensure ventilation over the motor. Any enclosure the pump is mounted in should be provided with a minimum ventilation of 200cm², half adjacent to the fan end of the motor the other half at the pump end. Inadequate ventilation can cause the motor to overheat.

ELECTRICAL CONNECTION: - ENSURE POWER SUPPLY IS SWITCHED OFF BEFORE CONNECTION. Fitting of an RCD to pump is recommended. Follow appropriate regulations on connection to mains. For permanent hard wiring only. The hard wired supply should have a means of disconnection with contact separation of at least 3mm on all poles. The supply cord should be routed and restrained such that it cannot come into contact with any parts of the pump or interconnecting pipework.

COMMISSIONING & MAINTENANCE

Pump should have flooded suction since it does not self prime. Filters or restrictions should not be before the pump inlet. When priming, operate pump in short 10 second cycles to facilitate clearing of air. Ensure there are no leaks or blockages in the pipework. Do not operate pump against closed valve for longer than 30 seconds. Where pumped fluid causes deposition periodic cleaning of the pump internals may be necessary. This can be achieved by flushing through with an appropriate cleaning agent (stripping the pump down will void the warranty) The supply cord cannot be replaced, if the cord is damaged the appliance should be scrapped.

SPARES - May be obtained from HARTON

REPAIRS In the event of repair being required arrange return to:
HARTON Anlagentechnik GmbH
Ahornweg 13
D-57518 Betzdorf/Alsdorf
Tel. +49(0)2741 - 9324-0
Fax. +49(0)2741 - 9234-25

NOTE

These instructions are intended as a guide only. If in any doubt over pump suitability, installation or electrical connection, please contact

HARTON Anlagentechnik GmbH
before proceedings.

WARRANTY

This pump is guaranteed for 12 months from the date of manufacture.

In the event of failure, return the pump INTACT to HARTON for inspection and rectification.

Incorrect use or tampering with the pump will render this warranty void.

WARNING

Appliance must be earthed, Fitted with automatically resetting thermal overload.

WIRING COLOUR CODE

- Units fitted with 3 core covered cable.
 - Green/Yellow - EARTH
 - Blue - NEUTRAL
 - Brown - LIVE
- Units fitted with flying leads.
 - Green/Yellow - EARTH
 - Other two - LIVE & NEUTRAL
 - wires

FOR HAND WIRING ONLY

All Poles to have 3mm Disconnect per
EN 60335-7-12-2

OPERATING INSTRUCTIONS DO NOT RUN DRY

DON'T PUMP ABRASIVES
OR LARGE PARTICLES

ENSURE PUMP MATERIALS
ARE RESISTANT TO
PUMPED FLUID

	BM/NDP PUMPS	GP/NEMP PUMPS
MAX. FLUID S.G.	1,2*	1,2
MAX. FLUID TEMP	85°C	65°C
MAX. BODY PRESS	1,4 bar (20psi)	

*NDP 35/3 MAX S.G.IS 1.0

ENSURE PUMP IS ADEQUATELY VENTILATED

PUMP DOES NOT SELF PRIME

HPR/HBM MAX BODY PRESS 10 bar