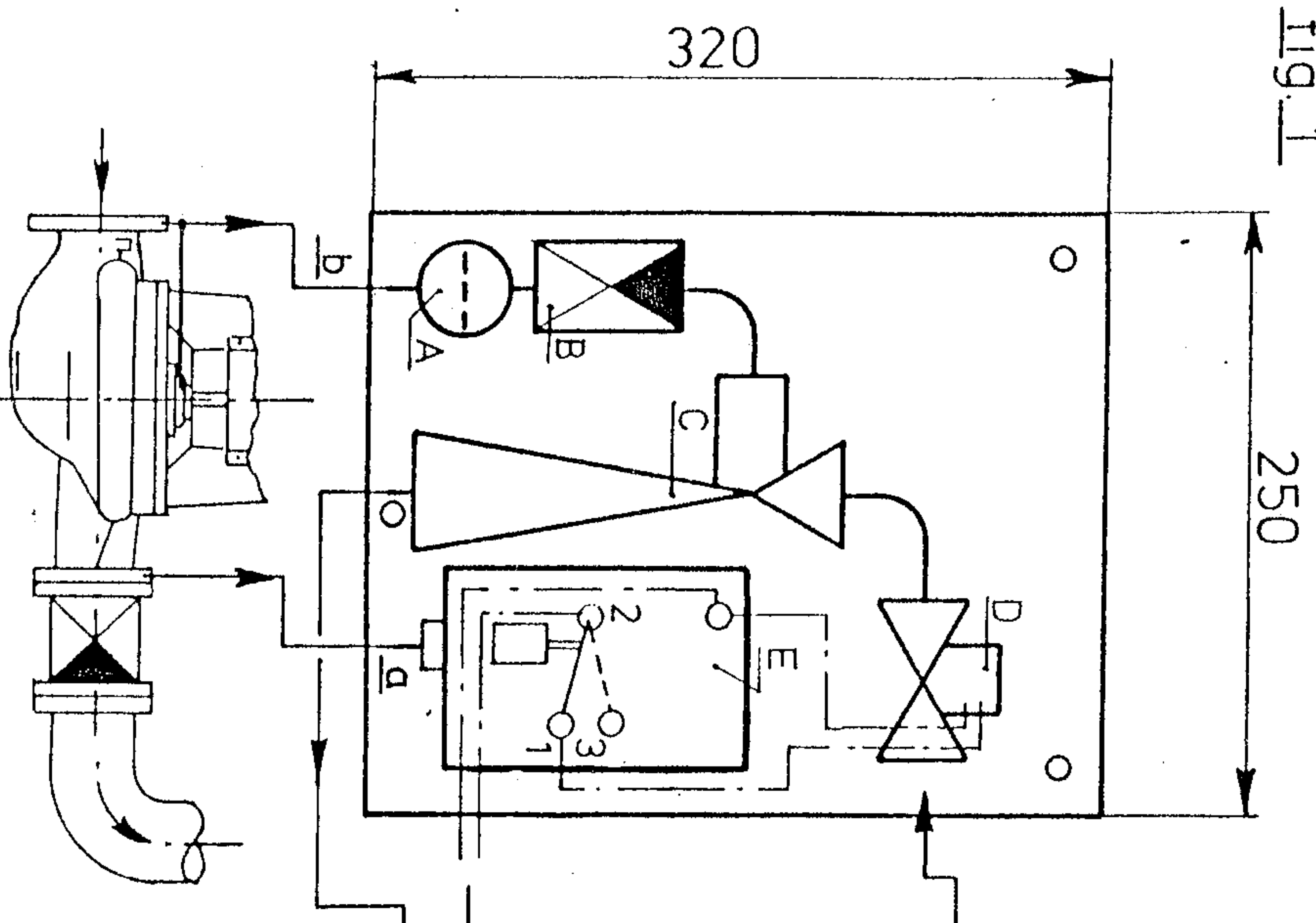


For STI WATER Ballast Pump / Air Priming



Fig. 1



- A. Filter
- B. Non-return valve
- C. Ejector
- D. Magnet valve 220 V / 50-60 Hz
- E. Pressure control
- 3/4" RG connection from compressor 5-6 atm.

The pressure control should switch on at decreasing pressure. The diagram is shown switched on.

Mains voltage: 220 V, 50-60 Hz.

a 3/8" RG is connected with delivery side of the pump.

b 1/2" RG connection for outlet.

c 1/2" RG is connected with the highest point of the suction side of the pump and the rear cover of the pump.

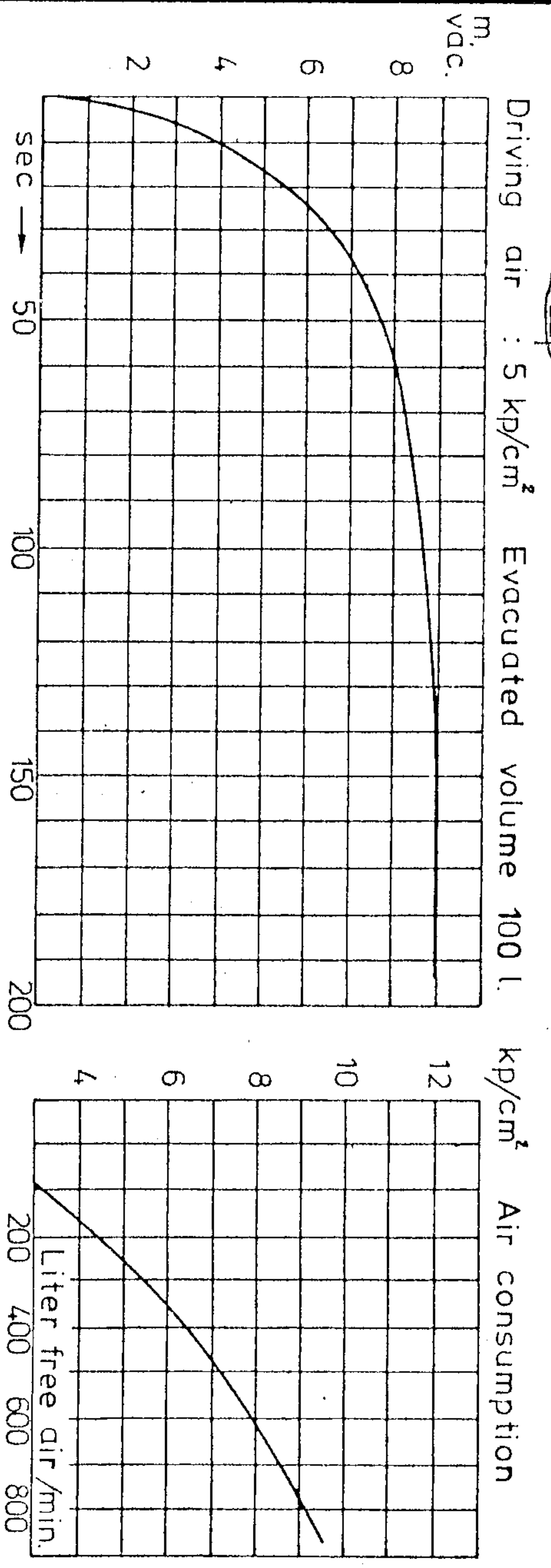


Fig. 1 shows the construction of an air ejector unit, meant for mounting on non-selfpriming centrifugal pumps. The unit makes the pump selfpriming.

In order to make the unit work, the delivery pipe must be shut off (non-return valve).

Start-stop of the unit: Voltage is switched on to the pressure control. This closes the cycle to the magnet valve. Compressed air will flow through the ejector and evacuate the air in the pump and the suction piping. When water is flowing through the ejector the pump may be started. At a fluid pressure of abt. 3 m total head the unit will uncouple automatically. If the pressure falls to less than 3 m total head the unit will automatically start functioning until counter pressure has been reestablished.

Assembly drawing: 40 03 93/65 08 65



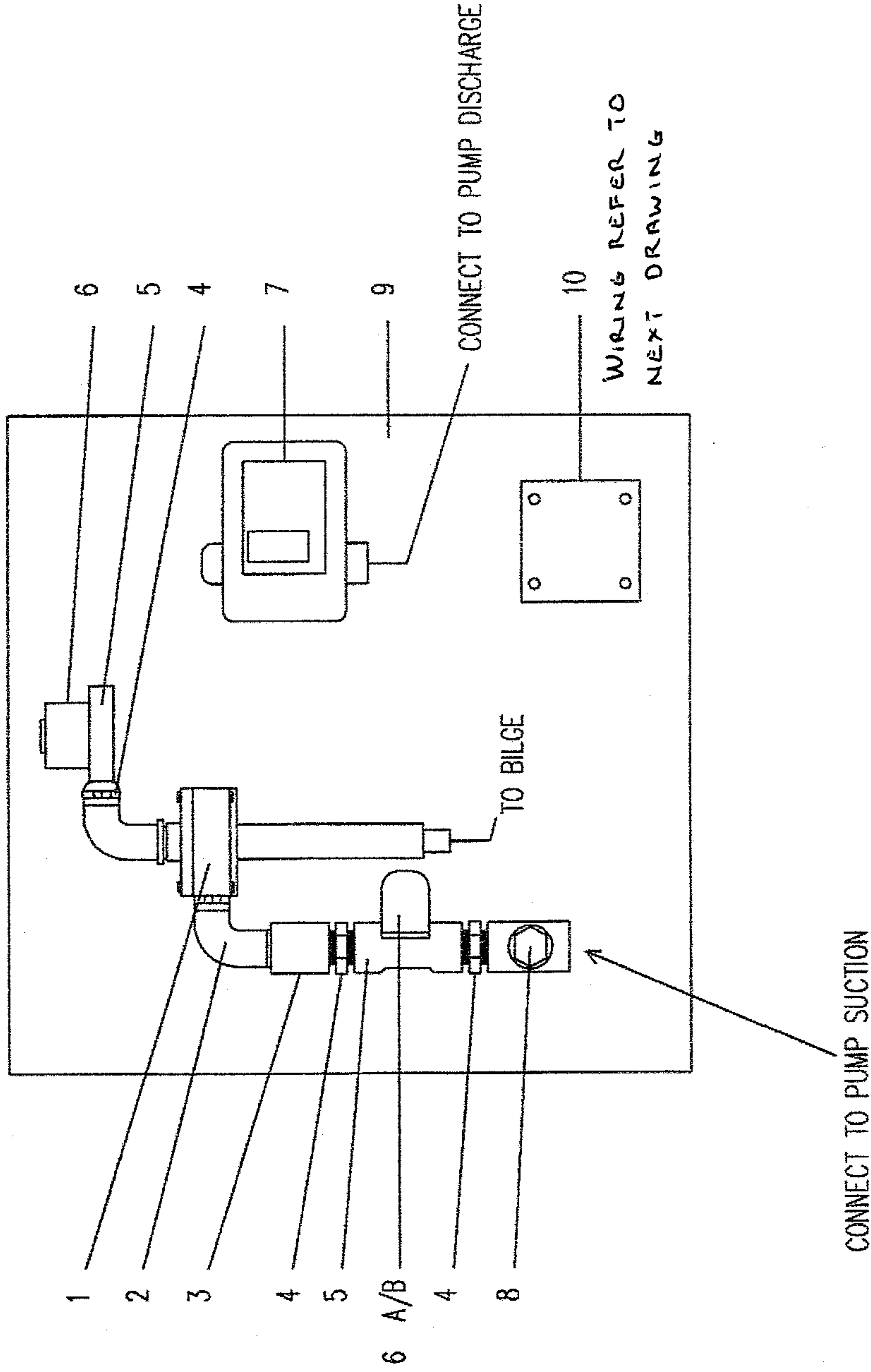
A/S De Smithske
DK-9100 Aalborg, Denmark, Postbox 119
Tel. (08) 12 66 99, Telex: 6 96 20

Ejector
priming unit

1/2"

Nr.	401102EA
Blad	1 af 1 blade
Dato	12.12.81
Udt. af	JOA

1/2" AIR EJECTOR PRIMING UNIT



POS.	QTY	DESCRIPTION
1	1	PRIMING EJECTOR , 1/2"
2	2	ELBOW 1/2"
3	1	NON RETURN VALVE
4	3	NIPPLE 1/2"
5	2	BURKETT 1/2" SOL.V/V
6	2	230V /1P/50/60HZ
7	1	PRESSURE SWITCH
8	1	Y-STRAINER , 1/2"
9	1	M.STEEL MOUNTING PLATE
10	1	JUNCTION BOX

Client Device 1/2" AIR EJECTOR PRIMING UNIT

Date 24 NOV 08

Hull

Drm By NYAN

Service

Dim Unit MM

Scale NTS

Drg No 10256

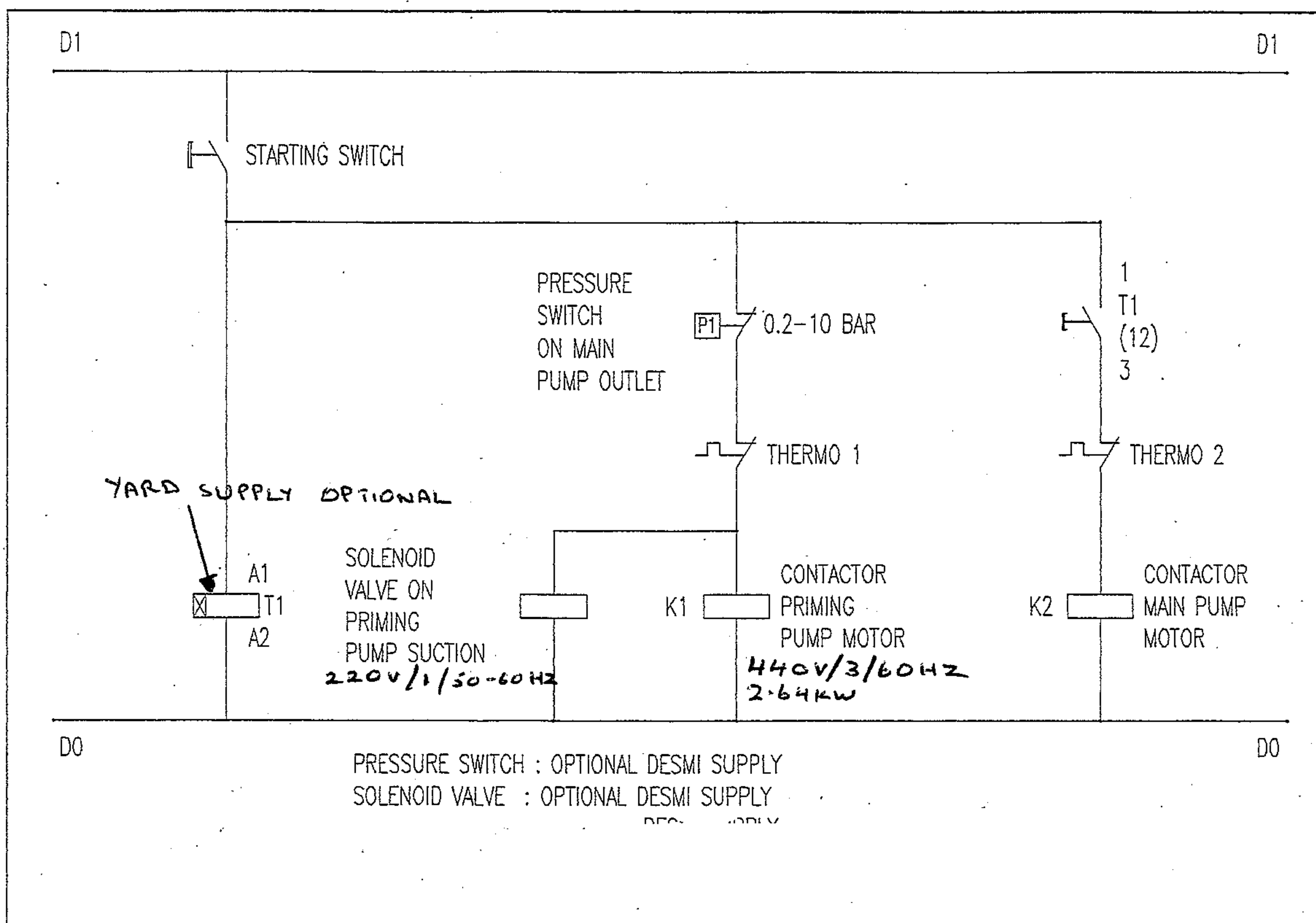
Item No

FOR 1) BILGE/BALLAST/GS USL 125-215
 2) DRAIN WATER USL 125-265

A/S DE SMITHSKE

DESMI

DESMI CONTROL FOR PRIMING PUMPS



DESMI A/S

Tagholm 1, DK-9400 Nørresundby Tel. +45 96 32 81 11 Fax +45 98 17 54 99

Manual:	Language:	Revision:
T1361	DK-UK-D	C



PumpQuip

engineering pte ltd 6
 Ruby Warehouse Complex Tel : (65) 748 3888
 8 Kaki Bukit Road 2
 #01-23 Singapore 417841 Fax: (65) 748 8858

FUNKTIONSBESKRIVELSE:

Når startkontakten sluttet, får UNIC-timeren XMW-S1 tilført en styrestrøm, hvilket aktiverer den (se strømndiagram). Derved sluttet relæspolen K1 til ansugningspumpen, og dennes el-motor opstartes.

Når UNIC-timerens indstillede tidsperiode udløber, sluttet kontakten T1, og relæspolen K2 til hovedpumpen aktiveres, hvorved el-motoren til hovedpumpen opstartes.

Når hovedpumpen afgiver et tryk svarende til den indstillede værdi på pressostaten, afbryder denne strømmen til ansugningspumpens el-motor.

RESERVEDELSLISTE:

- 1 Pressostat.
- 2 UNIC-timer type XMW.
- 3 Sokkel til UNIC-timer.

FUNCTIONAL DESCRIPTION:

When the starting switch is ON, the UNIC-timer XMW-S1 is supplied with a control current which activates it (see wiring diagram). The relay coil K1 is thereby connected to the priming pump, the electric motor of which is started up.

When the time period set on the UNIC-timer expires, the switch T1 is ON, and the relay coil K2 to the main pump is activated by which the electric motor for the main pump is started up.

When the main pump produces a pressure corresponding to the value set on the pressure sensitive switch, the latter switches off the current to the electric motor of the priming pump.

SPARE PARTS LIST:

- 1 Pressure sensitive switch.
- 2 UNIC-timer type XMW.
- 3 Base for UNIC-timer.

FUNKTIONSBESCHREIBUNG:

Wenn der Anlasser geschlossen wird, wird dem UNIC-timer XMW-S1 ein Steuerstrom zugeführt, der ihn aktiviert (siehe Verdrahtungsschema). Die Relaispule K1 wird dadurch der ansaugenden Pumpe geschlossen, wodurch der E-Motor eingeschaltet wird.

Wenn die eingestellte Zeitperiode des UNIT-timers abläuft, wird der Schalter T1 geschlossen, und die Relaispule K2 für die Hauptpumpe wird aktiviert, wodurch der E-Motor der Hauptpumpe eingeschaltet wird.

Wenn die Hauptpumpe einen Druck abgibt, der dem eingestellten Wert des Druckwächters entspricht, schaltet dieser den Strom zum E-Motor der ansaugenden Pumpe ab.

ERSATZTEILLISTE:

- 1 Druckwächter.
- 2 UNIC-timer Typ XMW.
- 3 Sockel für UNIC-timer