OPERATING INSTRUCTION

for

Electrolyte pump

Art.No. 35.005

schilling
Marking Systems GmbH

In Grubenaecker 1
D-78532 Tuttlingen
Tel.: ++49 / 7461 / 9472-0
Fax: ++49 / 7461 / 9472-20

Stand: 01/98

Gepr.: Schnell J.

INTRODUCTION

Dear Customer,

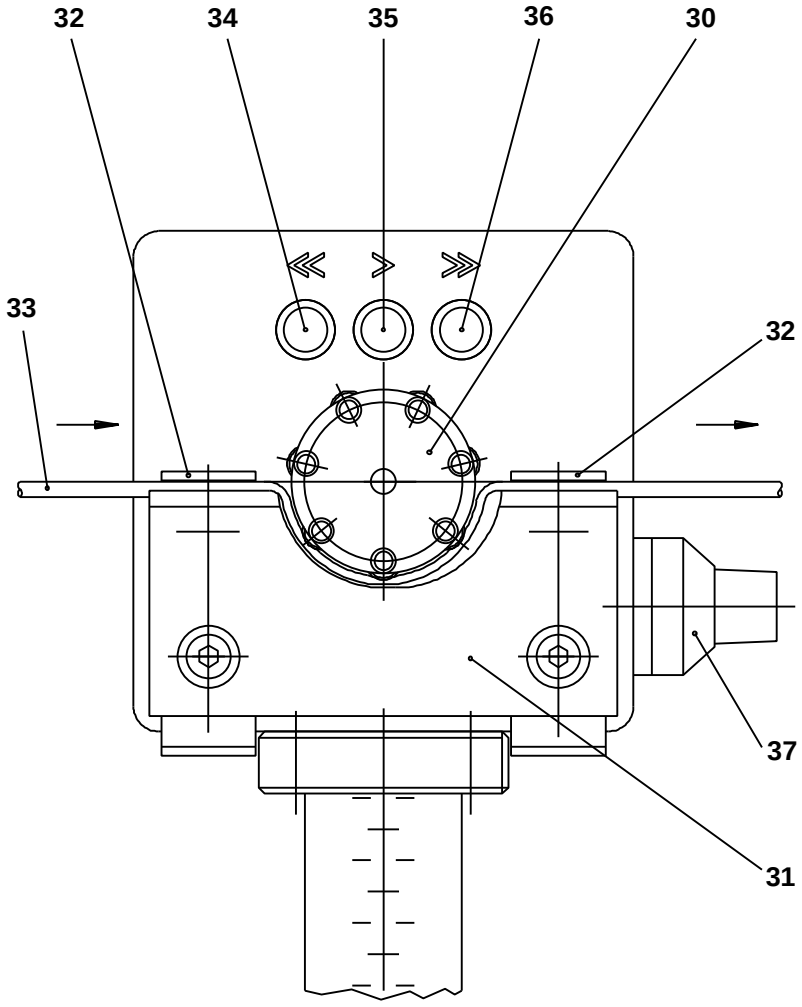
You have made a good choice by purchasing a SCHILLING electrolyte pump. Thank you for your trust in our product. Your electrolyte pump will honour this trust, but there will be one condition to satisfy right from the onset: The electrolyte pump should always be treated with respect, even under the most ardent of conditions. Consequently Operating Instructions should be kept with operators.
It would be a mistake to have these Operating Instructions rot away under heaps of dust. We have therefore endeavoured to give you all the recommendations and information necessary for operating, servicing and monitoring your system.
Please read these Instructions carefully **PRIOR TO COMMISSIONING** the electrolyte pump in order to become familiar with them.
Following these Instructions precisely will save you time and prevent losses, and you will still be fully satisfied with the system's performance in years to come.

We wish you success in your work and optimum results by employing your SCHILLING electrolyte pump.

Thank you for your attention and have a good start!

Contents:

1 Operating parts



30 pump wheel

31 hose guide block

32 hose retaining clamp

33 silicon hose

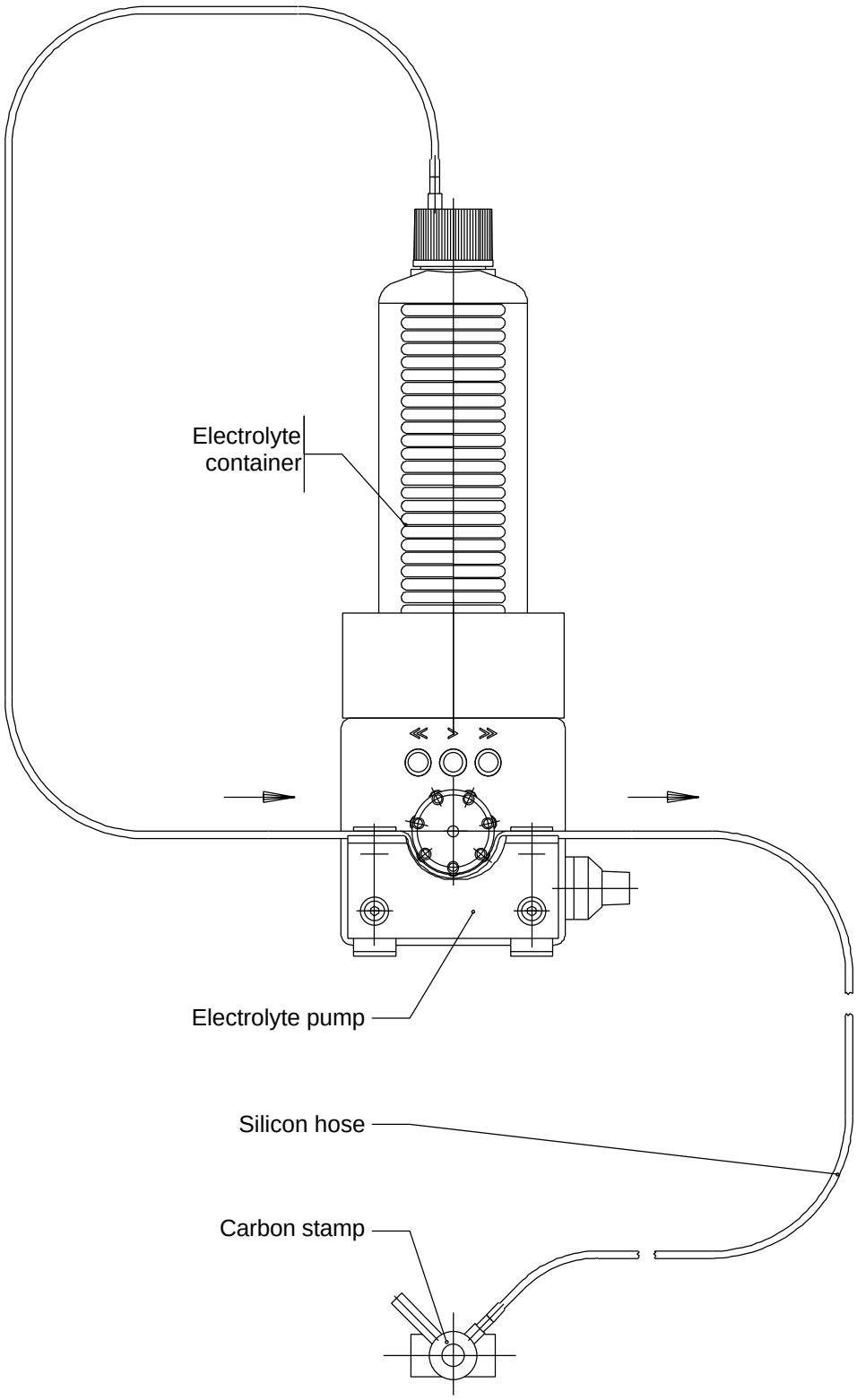
34 rewind

35 operate

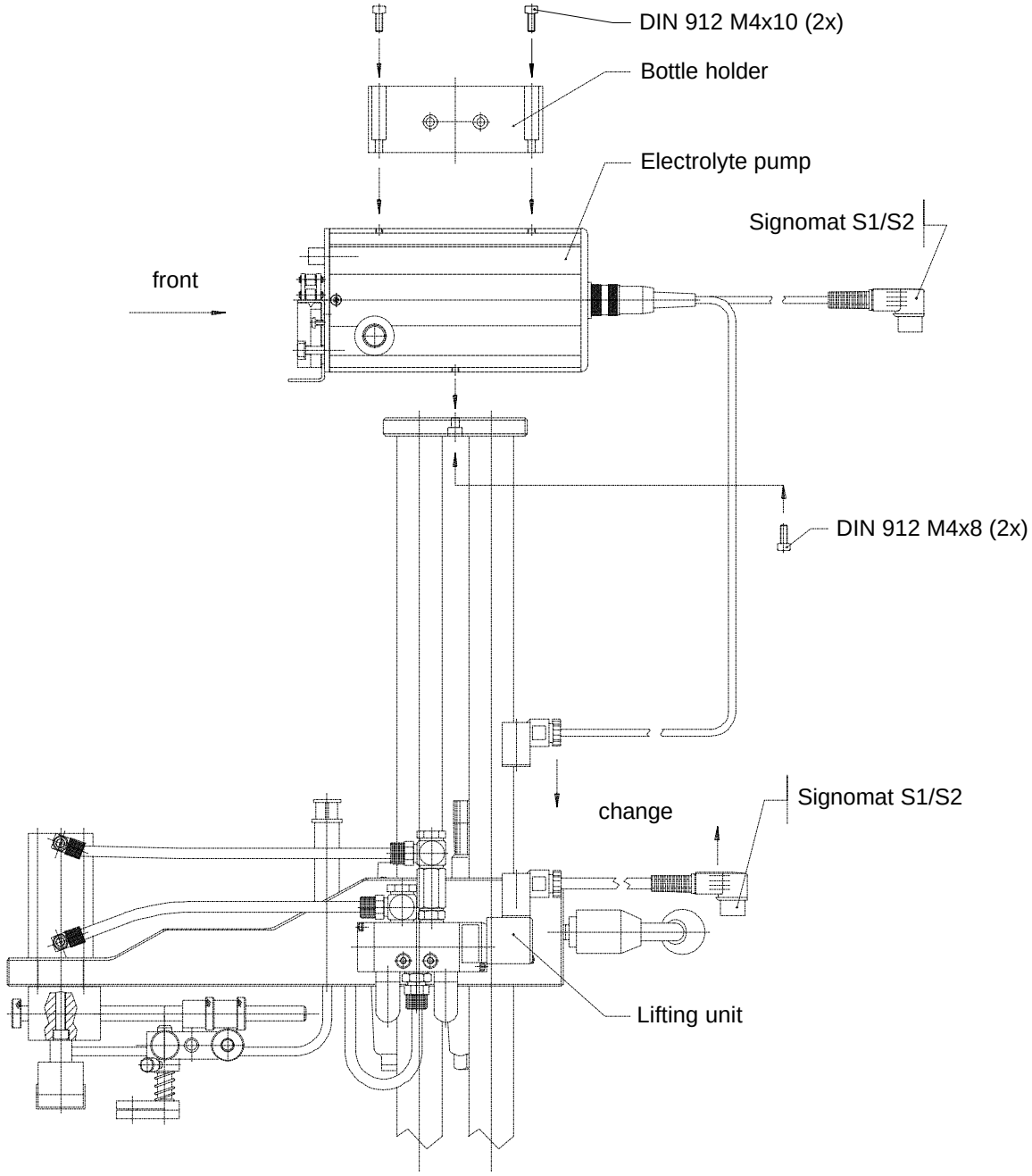
36 fast forward

37 10-gear potentiometer (0,1 - 1,0 sec.)

2 Connection diagram for electrolyte pump



3 Additional connection
Electrolyte pump to SIGNOMAT S1/S2



4 Contents of delivery

	description	Art. No.	Quantity
1.1	electrolyte pump compl.	35.005	1 pcs.
1.2	connection cable to the control unit	56.862	1 pcs.
1.3	connection cable to the lifting unit	56.864	1 pcs.
1.4	adjusting ring	35.219	1 pcs.
1.5	silicon hose	35.220	1 pcs.
1.6	electrolyte container compl.	35.813	1 pcs.
1.7	bottle holder	35.811	1 pcs.
1.8	keyspanner size 3.0mm	0911.030	1 pcs.

5 Setting into operation

5.1 Connect electrolyte pump to the control unit with cable supplied for this purpose.

5.2 Connect the lifting unit to the electrolyte pump with the cable supplied for the purpose.

5.3 Using the adjusting ring supplied, verfiy and adjust if necessary, the distance between the pump wheel **30** and the pump housing (adjusting at our plant).

5.4 Activate the control unit press the switch **36** (>>fast forward) on the pump.

5.5 Introduce the silicon hose **33** (order no. 35.200) from the left hand side between the pump frame **31** and the pump wheel **30** and pull through the required length.

5.6 Clamp the silicon hose **33** under the hose retaining bracket **32**.
Attention: If the silicon hose is stretched too tightly, cracks will ensue.

5.7 Activate the switch **35** (> operate) and connect the hose to the container and the stamp.

5.8 Activate the switch **36** and depending on the lenght of the hose, wait until the electrolyte has reached the carbon stamp.

5.9 Activate the switch **35** and set the required quantity to be fed (running time of the pump) with the potentiometer. Maximum running time can not exceed 1 sec.

5.10 If the foot switch on the control unit is actuated, the electrolyte pump will automatically operate for the set feeding time and supply a specific quantity of electrolyte during the labelling process.

6 After use

6.1 Pump the electrolyte out of the silicon hose **33** and the carbon stamp by activating the switch **34** (<< rewind).

6.2 Remove the felt from the carbon stamp and rinse with water.

6.3 If work is to be interrupted for several days at a go, rinse the silicon hose with water.

7 Maintenance, Changing the silicon hose

7.1 When the hose needs to be changed, lift both of the hose clamping pieces **31** and gently draw the used hose **33** out of the hose guide **31**. If necessary, the screws on the front of the bearing can be loosened.

7.2 If the bearing has not be loosened, then you may ignore this step.
The supplied adjusting ring is slipped between the pump wheel **30** and the bearing, with in turn is pressed against the pump wheel **30** from below, and then secured with the holding down bolts. Use the adjusting ring ensures that the pump wheel and the bearing are adjsted correctly in relation to each other and is therefor essential for precise measuring!

7.3 Before the new hose is installed, you must check that all rollers on the pump wheel turn perfectly. Clean the pump if necessary.

7.4 The new hose may now be carefully pressed into the slot between the pump wheel and the hose bearing. This may be done while the motor is running.

7.5 Lift the left hose clamping piece **32**, place the hose **33** in the guide **31** and tighten.

7.6 Activate the fast forward switch **36** briefly. This will draw the hose into the correct position.

7.7 Now also attach the gently tightened hose with the right hose clamping piece.

7.8 Pour a drop of resin-free oil onto the running rollers. If the hose is correctly adjusted, the pump wheel should turn the same distance in both directions. No grinding between hose attachment fixture and the pump wheel should build up. If this does occur, the hose must be adjusted to increase the tension.