

OPERATING INSTRUCTION

PUMP UNIT 99/E





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> C.F. e P.I. 01410730335 - C.I. IT 01410730335 R.I. PC 01410730335 - R.E.A. 160057 Cap. Soc. Euro 40.000 i.v







- 1 Downstroke solenoid valve
- 2 Drop test fastening
- 3 Downstroke and upward low speed adjusting screw - Clockwise decrease (-)
 - Anticlockwise increase (+)
- 5 Deceleration time adjusting screw
 - Clockwise increase (+)
 - Anticlockwise decrease (-)
- 6 High speed solenoid valve
- 7 High speed adjusting screw (*)
- 10 Maximum pressure valve adjusting screw
 - Clockwise increase (+)
 - Anticlockwise decrease (-)
- 11 Gauge cut-out cock
- 12 Valve cut-out cock
- 13 Upward start throttle adujusting screw
 - Clockwise increase (+)
 - Anticlockwise decrease (-)
- 14 Emergency downstroke button
- 16 Remaining pressure adjustment screw
 - Clockwise increase (+)
 - Anticlockwise decrease (-)
 - Only in the Indirect execution 2:1

(17) Pressure switches

- 18 Calibrate of the motor start time
 - Clockwise decrease (-)
 - Anticlockwise increase (+)
- 19 Calibrate downstroke speed
 - Clockwise increase (+)
 - Anticlockwise decrease (-)
- (26) Hand pump
- (27) Hand pump safety valve adjusting screw
 - Clockwise increase (+)
 - Anticlockwise decrease (-)
- (28) Hand pump no-returne valve
- (29) Air bleed (Hand pump)
- (79) Soft Stop valve
- (80) Soft stop time adjusing screw
 - Clockwise increase (+)
 - Anticlockwise decrease (-)
- 98 Downstroke starting time adjusting screw
 - Clockwise increase (+)
 - Anticlockwise decrease (-)
- 77-99 Regulation throttle (fixed) (*)
- (*) These elements are factory set Adjustment should only be carried out via manufacture's thecnical specifications
- () OPTIONAL



Valve group operating limits

- Flow :8-75 Lt/min
- O Maximum static pressure : 70 bar
- O Maximum operating pressure : 75 bar
- O Minimum static pressue : 10 bar
- O Maximum pressure of the overpressuere vakve setting : 85 bar
- Maximum oil temperature : 60 °C
- Engine room temperature : 5- 40 °C

Drop test

- Clockwise adjust the screw <2> (counting the turns) and block the seal nut.
- O Send the cabin full load to the top floor and start the downstroke1
- The safety vale must operate.
- Then anticlockwise adjusting screw <2> and take it to the original position.
- Make sure that the pressure in the pump, during upstroke, hasn't changed.





Hydraulic scheme



h - Downward stop contact d - Upward stop contact f - Downward starting reducing speed contact b - Upward starting reducing speed contact



Electrical connection



1a Downstroke coil 12-24-48 V 45W1b Downstroke coil 48/12 cc 36 W

6 High speed coil 12-24-48 V 45 W

M Terminal board

(H) Oil heater sesistance 70W

(T) Oil termostat 70 °C opening

(S) NC bimetalic motorprotection



Solenoid connection

Motor Connection

Connect the line input in accordance with the original motor terminal board configuration:

Single – Phase

External motor



For other configuration than those above, refer to the istruction sheet attached to the motor. For all motor with the power cable already present, connect the cables marked with V-W the cables marked with T are the thermal protection of the motor.

Three – Phase





For all motor with the power cable already present, connect the cables marked with V-W-U the cables marked with T are the thermal protection of the motor

Inside motor



1a Downstroke coil 12-24-48 V 45W
1b Downstroke coil 48/12 cc 36 W
6 High speed coil 12-24-48 V 45 W
(H) Oil heater sesistance 70W
(T) Oil termostat 70 °C opening
(S) NC bimetalic motorprotection



Solenoid connection

Motor Connection

Connect the line input in accordance with the original motor terminal board configuration:

Single – Phase



For all motor with the power cable already present, connect the cables marked with V-W the cables marked with T are the thermal protection of the motor

Three – Phase





For all motor with the power cable already present, connect the cables marked with V-W-U the cables marked with T are the thermal protection of the motor

Pump and Drain connection



- 1. Pump connection
 - Gas 1/2"
 - Gas 3/4"
- 2. Main drain
- 3. Solenoid drain
- 4. Hand pump suction
- 5. Fixing holes M8

Valve support plate - cut dimensions





Fixing hole dimensions





The external dimensions of the plate are not indicated, as they vary from the type of tank where they are mounted



NOTE	
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BY TECHNICAL OFFICE

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