

# Double-Injection-Pump

## IP 2-63-E-B-HGV

with 2 installed Injection-Pumps IP 63-E-B-HGV



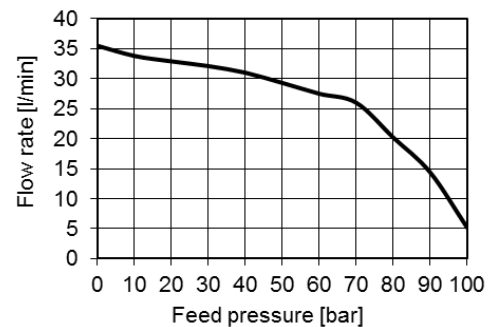
### Technical Data

Drive	Electro-hydraulic
Drive Power	15,0 kW
Total Power Consumption	approx. 16,0 kW
Connections	
Electrical	CEE 63 A / 400 V AC, 50 Hz, IP 54
In-/Outlets each Pump	
Suction line	2 x G 1 BSPP IG DN 25 - RD 38
Pressure line	2 x G 1 BSPP IG DN 25 - RD 38
Circulation line	2 x G ¾ BSPP IG DN 20 - RD 32
Dimensions (L x W x H)	1.600 x 1.100 x 1.830 (mm)
Weight	approx. 1.650 kg
Application	Pumping / injecting of cement-, micro-cement, fly ash and bentonite suspensions at injections, anchorings, fillings, (post-) groutings and sealings

Performance each Delivery Pump IP 63-E-B-HGV

Pressure max. 100 bar<sup>1)</sup>  
[max. 1.450 psi]<sup>1)</sup>

Flow rate max. 35 l/min.<sup>1)</sup>  
[max. 9,3 gal U.S.]<sup>1)</sup>



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## Standard Features

### Framework

skid steel frame, partially enclosed and with partition panel, floor and oil pan, central towing device, fork lift guides crosswise, machine sound proofed, lockable doors, finishing 2K-paint RAL 7042 (traffic grey) or on customer desire unicoloured

### Electric Drive

electric motor 15,0 kW, 1.500 rpm, 400 V AC, 50 Hz, IP 54, automatic phase correction, motor safety switch, control voltage 24 V DC (for valves and remote control), operating hour meter

### Hydraulic

oil tank volume 165 l [44 gal U.S.], gear pumps, oil cooler with thermostat, main and control oil filter, oil filling and ventilation filter, electrical oil filter pollution control, oil level and temperature indicator, membrane accumulator, manometer for hydraulic pressure (each delivery pump), manometer for control oil pressure, pressure and flow infinitely variable

### Each Delivery Pump

vertical two-plunger pump Ø 63 mm, flow rate per double stroke  $V = 1,0$  l [0,26 gal U.S.], pump valves (suction- and pressure side) hydraulically controlled, circulation and pump-down valves hydraulically controlled, flow rate adjustment electro-proportional, manual grease system for plunger sealing sleeves and manually with plunger oil, safety grid

### Delivery Pressure Measurement each Pump

manometer 0-100 bar [1.450 psi] Ø 100 mm completely with stainless steel membrane, electronic pressure sensor 0-100 bar [1.450 psi] 4-20 mA G ½ BSPP AG

### Flow Rate Measurement each Pump

per double stroke or inductive flow measuring, flow meter installed in the suction line

### Operating Devices

main switch, control lights CURRENT POWER, CONTROL VOLTAGE and OIL COOLER OPERATION, warning lights OIL FILTER CONTROLLED VALVES, OIL COOLER MALFUNCTION and EMERGENCY-STOP ACTIVATED, buttons HYDRAULIC MOTOR ON/OPERATION and HYDRAULIC MOTOR OFF/MALFUNCTION, button EMERGENCY-STOP, **Operating devices each delivery pump:** buttons PUMP ON and PUMP OFF, switches PUMPING/CIRCULATION and REMOTE CONTROL ON/OFF and HAND/AUTOMATIC/AUTO-CIRCULATION, buttons AUTOMATIC START/STOP, switches PRESSURE RELIEF ON/OFF, warning lamps OIL FILTER PUMP 1 and OIL FILTER PUMP 2, rotary knobs for max. DELIVERY PRESSURE adjustment, potentiometers FLOW RATE, flow rate counters l/min. [gal U.S./min.] and l/total [gal U.S./total] with zero-setting, auto pre-select counters for flow rate l/total [gal U.S./total], **Connection options:** sockets REMOTE CONTROL with EMERGENCY-STOP bridge plugs, sockets PRESSURE SIGNAL 6-pin, sockets FLOW SIGNAL 6-pin, free sockets 230 V / 16 A

### Accessories (included)

documentation, special tools for operation and maintenance, cable remote controls 15 m and cable reels 100 m, suction hoses 3 m, circulation hoses

### Accessories (optional)

spare part kits, grouting hoses, suction hoses, fittings, grouting grippers

### Supplementary Devices

mixing and storing tanks for solid suspensions, dosing devices, screw-conveyors, radio remote control, control devices, electronic data acquisition and recording, regulating and measuring systems RMS with computer evaluation per USB and injection journal, flow meter with delivery pressure measuring, electronic delivery pressure devices (pressure transmitter) at injection place, devices for radio data transmission

*Further devices, special equipments and accessories on request!*