

# Injection-Pump

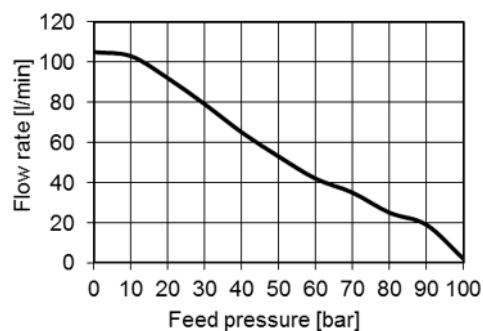
## IP 80-E-B-KV



### Technical Data

Drive	Electro-hydraulic
Drive Power	11,0 kW
Total Power Consumption	approx. 11,5 kW
Connections	
Electrical	CEE 32 A / 400 V AC, 50 Hz, IP 54
Outlet	
Suction line	G 1 ½ BSPP IG DN 40 - Kamlok 150 MT
Pressure line	G 1 BSPP IG DN 25 - RD 38
Circulation line	G ¾ BSPP IG DN 20 - RD 32
Dimensions (L x W x H)	930 x 700 x 1.640 (mm)
Weight	approx. 740 kg
Application	Pumping / injecting of cement-, micro-cement, fly ash and bentonite suspensions at injections, anchorings, fillings, groutings and sealings

Performance Delivery Pump	
Pressure	max. 100 bar <sup>1)</sup> [max. 1.450 psi] <sup>1)</sup>
Flow rate	max. 103 l/min. <sup>1)</sup> [max. 27 gal U.S.] <sup>1)</sup>



# Injection-Pump IP 80-E-B-HGV



## Standard Features

### Framework

skid steel frame, partially enclosed and with partition panel, floor and oil pan, central towing device, fork lift guides lengthwise, lockable doors, finishing 2K-paint RAL 5005 (signal blue) or on customer desire unicoloured

### Electric Drive

electric motor 11,0 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 80 l [21 gal U.S.], axial piston pump and gear pump, oil cooler, main oil filter, oil filling and ventilation filter, electrical oil filter pollution control, oil level and temperature indicator, membrane accumulator, manometer for hydraulic and control oil pressure, pressure and flow infinitely variable

### Delivery Pump

vertical two-plunger pump Ø 80 mm, flow rate per double stroke  $V = 1,7$  l [0,45 gal U.S.], pump valves (suction- and pressure line) self-acting (ball valves), circulation and pump-down valves manually actuated, flow rate adjustment electro-proportional, manual grease system for plunger sealing sleeves and manually with plunger oil, safety grid

### Delivery Pressure Measurement

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

### Operating Devices

main switch, control lights CURRENT POWER and CONTROL VOLTAGE, warning lights OIL FILTER CONTROLLED VALVES and EMERGENCY-STOP ACTIVATED, buttons HYDRAULIC MOTOR ON/OPERATION and HYDRAULIC MOTOR OFF/MALFUNCTION, button EMERGENCY-STOP, buttons PUMP ON and PUMP OFF, REMOTE CONTROL ON/OFF and HAND / AUTOMATIC / AUTO-CIRCULATION, button AUTOMATIC START/STOP, switch PRESSURE RELIEF ON/OFF, rotary knob for max. DELIVERY PRESSURE adjustment, potentiometer FLOW RATE, flow rate counter l/min. [gal U.S./min.] and l/total [gal U.S./total] with zero-setting, auto pre-select counter for flow rate l/total [gal U.S./total], **Connection options:** socket REMOTE CONTROL with EMERGENCY-STOP bridge plug, socket PRESSURE SIGNAL 6-pin, free socket 230 V / 16 A

### Accessories (included)

documentation, special tools for operation and maintenance, cable remote control 15 m and cable reel 100 m, suction hose 3 m, circulation hose

### 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!*