

Pump-Unit

PS 160-E-A



Technical Data

Drive Electro-hydraulic
Drive Power 30,0 kW
Total Power Consumption approx. 31,0 kW

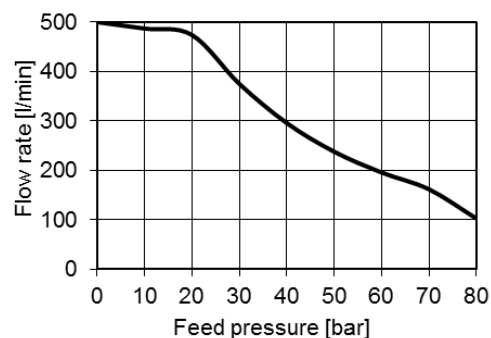
Connections
Electrical CEE 63 A / 400 V AC, 50 Hz, IP 54

In-/Outlets
Suction line DN 80 - RD 105
Pressure line G 1 ½ BSPP IG DN 40 - RD 55
Circulation line G 1 BSPP IG DN 25 - RD 38

Dimensions (L x W x H) 2.430 x 860 x 2.180 (mm)
Weight approx. 2.600 kg

Application Pumping of cement-, fly ash and bentonite suspensions at anchoring, groutings, flushings, sealings, piling and vibrating jobs, slim and diaphragm walls, soil mixing WSM (single-, twin-, triple-mix) and cutter soil mixing CSM

Performance Delivery Pump
Pressure max. 80 bar¹⁾
[max. 1.160 psi]¹⁾
Flow rate max. 500 l/min.¹⁾
[max. 132 gal U.S.]¹⁾



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Standard Features

Framework

skid steel frame, partially enclosed and with partition panel, floor and oil pan, four towing devices, lashing eyes for transportation, fork lift guides crosswise, machine room sound proofed, lockable and fixable doors, finishing 2K-paint RAL 7042 (traffic grey) or on customer desire unicoloured

Electric Drive

electric motor 30,0 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 350 l [92 gal U.S.], axial piston pump and 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, manometers for hydraulic and control oil pressure, pressure and flow infinitely variable

Delivery Pump

vertical two-plunger pump Ø 160 mm, flow rate per double stroke $V = 12,1 \text{ l}$ [3,2 gal U.S.], pump valves (suction- and pressure side) self-acting (ball valves), circulation and pump-down valves manually actuated, flow rate adjustment electro-proportional, automatic grease system for plunger sealing sleeves, plunger oil tank

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 with LCD display on switch cabinet

Operating Devices

main switch, control lights CURRENT POWER, CONTROL VOLTAGE and OIL COOLER OPERATION, warning lights OIL FILTER PUMP, OIL FILTER CONTROL OIL and OIL COOLER MALFUNCTION, LED lamps for plunger positions, buttons HYDRAULIC MOTOR ON/OPERATION and HYDRAULIC MOTOR OFF/MALFUNCTION, button EMERGENCY-STOP, buttons PUMP ON and PUMP OFF, button ACKNOWLEDGE LOW OIL LEVEL, switch REMOTE CONTROL ON/OFF, switch LIGHT ON/OFF for LED rod lamp inside, rotary knob for max. DELIVERY PRESSURE adjustment, potentiometer FLOW RATE, flow rate counters l/min. [gal U.S./min.] and l/total [gal U.S./total] with zero-setting (2x), auto pre-select counter for flow rate l/total [gal U.S./total], LCD display for delivery pressure, **Connection Options:** socket REMOTE CONTROL with EMERGENCY-STOP bridge plug, free socket 400 V / 16 A, 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 with suction basket, circulation hose, corded LED rod lamp inside, pulsation damper

Accessories (optional)

spare part kits, grouting hoses, suction hoses, fittings

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!