

# Mix-Pump-Station MPS 80-E-B-HGV MPS 80-E-B-KV



## Technical Data

drive mechanism	electro-hydraulic
drive power total	15 kW
drive power pump	7,5 kW
connections	
• electrical	CEE 32A / 400V AC, 50Hz
• water	C-Kupplung DN50 + G 1 BSPP GEKA
outlet	
• feed pump pressure side	G 1 BSPP IG DN25
• feed pump circulation	G 1 BSPP IG DN25
dimensions	
length x width x height	2410 x 1200 x 1760 (mm)
weight	ca. 1740 kg

## Application

Mixing and pumping of cement suspensions, flying ash suspension, bentonite suspensions and insulation suspensions at backfillings, , small drill anchor, micro piles until max. 52mm, rock bolts, jetting drillings and pressings.

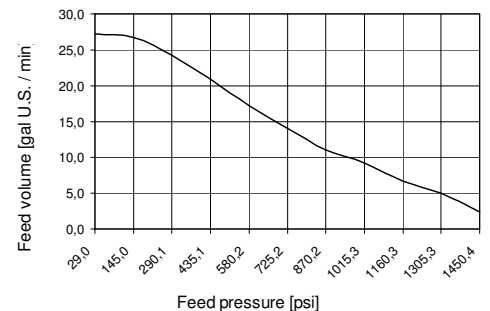
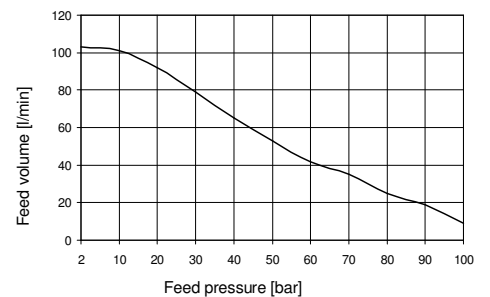
## Performance

### Mixer

- hand feed up to 3,5 m<sup>3</sup>/h
- feed per dosing screw conveyor up to 4.5 m<sup>3</sup>/h

### Feed Pump

- pressure max. 100 bar<sup>1)</sup>  
max. 1450 psi
- flow rate max. 103 l/min<sup>1)</sup>  
max. 27.2 gal U.S./min



## characteristic

Feed pump can be removed (= IP80) and used separately.



<sup>1)</sup>pressure and flow rate infinitely variable. Both max. performances are not simultaneously possible, please refer to graph.

1 bar = 1 x 10<sup>5</sup> N / m<sup>2</sup>

Status: September 2009  
Technical changes reserved

# Mix-Pump-Station MPS 80-E-B-HGV

## MPS 80-E-B-KV

### Standard Features

<b>Electric Drive</b>	electric motor 7.5 kW, 400V, 50Hz, IP 54, motor protection switch automatic phase correction, no zero conductor required input voltage for valves and remote control 24V DC
<b>Hydraulik</b>	oil tank volume 110 l / 29 gal U.S., oil input- and air filter oil level and temperature gage, oil filter condition indicator axial piston pump, diaphragm accumulator
<b>Feed Pump ... HGV = hydr. controled valves</b>	vertical two-plunger pump Ø80mm, flow rate per double stroke V = 1.7 l / 0.26 gal U.S. pump valves hydraulically operated, shut off cock in feed pipe by-pass/circulation valve hydraulically operated (selector switch) flow rate adjustable electro-proportional
<b>Feed Pump ... KV = ball valves</b>	vertical two-plunger pump Ø80mm, flow rate per double stroke V = 1.7 l / 0.26 gal U.S. ball valves, by-pass/circulation valve manually operated
<b>Feed Pressure Measurement</b>	manometer 0-100 bar / 0-1450 psi, Ø100mm with stainless steel membrane G 1 BSPP external thread
<b>Water Metering</b>	water distributor with flushing connector water reservoir and metering tank V = 130 l / 34.3 gal U.S., fixed overflow manually operated draw-off tab DN50 water distributor with C-coupling and shut-off flap DN50 semi-automatic water metering with fluid level indicator and solenoid valve DN25 controlled water supply
<b>Framework</b>	partially enclosed steel frame with runners and partition panel floor panel and oil drip pan, central towing device fork lift guide transversal and longitudinal finishing 2 K – paint RAL 5005 (signal blue)
<b>Agitator</b>	round tank, cleaning opening, suction screen, inlet basket 5mm container covers, shut-off flap DN50 volume 265 l / 70.01 gal U.S., effective volume 230 l / 60.8 gal U.S. slow turning agitator, electric drive
<b>Mixing Tank Colloid-Mixer</b>	round tank with conical floor, volume 250 l / 66 gal U.S. effective volume 200 l / 52.8 gal U.S., hopper with bag ripper container cover, electric drive with gear belt
<b>Tools in Mixing Tank</b>	2 fast turning agitators on one common drive shaft incl. pump down function 1 agitator Ø250mm, 1 pump rotor Ø185mm drive shaft bearing above mixer fluid level no stuffing box, so dry running possible w/o any problems
<b>Control Devices</b>	rotary knob for pressure control, rotary knob for flow rate control (l/min) on / off push-button for feed pump, on / off push-button for reservoir and mixer pump on / off push-button for semiautomatic water metering
<b>Accessories (included)</b>	service manual and spare parts list, special tools for service and maintenance pre-selector switch for total flow rate setting (l/total) flow rate meter w. / w/o zero setting remote control with function “feed pump on / off, flow rate, circulation” with cable and 100m cable reel
<b>Optional Accessories</b>	spare part kits, filling connector to add solid substances by screw conveyor suction and pressure hoses, fittings, threaded joints, high pressure cleaner firmly installed radio remote control with function “feed pump on / off, flow rate, circulation, emergency stop, water / suspension”, electronic pressure transducer 0-100 bar / 0-1450 psi 4-20mA with LCD display
<b>Supplementary Devices</b>	control units, electronic flow rate gages electronic feed pressure gages at injection location screw conveyors, electronic data recording, control-measuring-system (RMS-1 or RMS-2) and computer evaluation, injection protocol generation “Ninja”

**Views**  
**MPS 80 E-B-HGV**  
**MPS 80 E-B-KV**

