**KSB Delta Solo SVP**

Ready-to-connect package pressure booster system with magnet-less IE5 KSB SuPremE® reluctance motor (to IEC/TS 60034-30-2 (2016)), KSB frequency inverter for continuously variable speed control of each pump. To DIN 1988-500.

**Function:**

Pressure booster system with continuously variable speed control for adjustable constant supply pressure in drinking water applications. The system is started and stopped as a function of pressure. The control system is parameterised at the factory for the specific customer requirements.

**Features:**

- Vertical Movitec high-pressure centrifugal pump with wetted components made of stainless steel

- KSB SuPremE® IE5 motor on each pump (to IEC/TS 60034-30-2 (2016))

- Motor-mounted KSB PumpDrive Eco frequency inverter

- Check valve in the pump discharge nozzle

- 8-litre membrane-type accumulator equipped with Flowjet flow through valve; accumulator fitted on the discharge side, with shut-off valve and drain valve

- Pressure sensor for controlling supply pressure

- Discharge sensor for dry running protection of the system

- Pressure gauge for pressure indication

- Discharge-side manifold with threaded connection

- Powder-coated baseplate

- Lockable master switch in supplied housing with 1.5 m cable

- All components mounted on one baseplate

- Foot set for height compensation for installation on uneven surfaces

**Pump data:**

- Fluid handled:

- Fluid temperature: 60 degrees Celsius max.

- Connection type:

- Number of pumps:

- Number of stages:

- Stand-by pump:

- Pump flow rate:

- Pump head:

- Inlet pressure min.:

- Pump head at Q = 0:

- Nominal pressure of the system: up to PN 16

**Operating data of the system:**

- Total flow rate

- Start-up pressure

- Discharge pressure / setpoint:

- Discharge pressure at Q = 0:

**Motor/electronics:**

- International Efficiency (IE): KSB SuPremE IE5 motor (to IEC/TS 60034-30-2 (2016))

- Power supply: 3~ 400 V, 50 Hz

- Power input P1 per pump:

- Nominal speed:

- Current input max.:

- Enclosure: IP55

**Monitoring / open-loop control / closed-loop control**:

- Functional monitoring of the pressure sensor

- Manual or automatic fault acknowledgement

- Integrated motor protection

- Pipe rupture detection: system stops when the set pressure cannot be reached.

- Functional check run with adjustable parameters

**Communication / interfaces:**

- 1 volt-free digital input for external dry running protection

- Volt-free individual “in operation” and fault messages at the KSB frequency inverter

- Remote maintenance with the KSB ServiceTool

- Display indicating: operating hours per pump, system pressure, status of dry running protection, inlet pressure, alerts and warnings (incl. history), 3-colour LEDs at the control system for trouble-free operation (green), warnings (yellow) and alerts (red)

**Materials:**

- Pump: wetted components made of stainless steel

- Piping: stainless steel

- Valves: brass and stainless steel, suitable for drinking water

- Baseplate: steel, powder-coated

**Certification:**

The system is suitable for drinking water and certified to ACS (France) and WRAS (United Kingdom). All components and materials are approved by DVGW.

Pressure booster systems are subjected to hydraulic testing with sterile water at the factory; they are closed after testing. During the test KSB continuously monitors the test water quality. Test certificate available on request.

**Dimensions and connections:**

- Suction side and discharge side

- Dimensions L x W x H:

**Purchase order information:**

- Manufacturer: KSB

- Type series: KSB Delta Solo SVP

- Material price group: LA

**Material number:**

**Please note:**

Prior to commissioning in drinking water applications the system has to be flushed at the site in accordance with the requirements of the German TrinkwV drinking water ordinance and of DIN EN 806 (to prevent microbial contamination).

This also applies if the system has been at standstill for a prolonged period of time.

**Typical tender for KSB Delta Solo SVP**

**1983.559/03-EN**

**Subject to technical modification without prior notice.**

**27 July 2020**