**KSB Delta Primo 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 and Booster Control Advanced control system. To DIN 1988-500.

**Function:**

Pressure booster system for adjustable, constant supply pressure for drinking water applications. Every pump is speed-controlled with operating hours evenly distributed among the pumps. 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 pumps with wetted components made of stainless steel

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

- KSB’s PumpDrive Eco frequency inverter mounted on the motor of each pump

- Booster Control Advanced control unit with password protection to prevent unauthorised access

- One check valve per pump and one lockable shut-off valve on the suction side and discharge side of each pump

- 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 with Flowjet shut-off valve, for controlling the supply pressure

- Pressure sensor for dry running protection of the system, with Flowjet shut-off valve

- Pressure gauge for pressure indication

- Lockable master switch at the control cabinet

- Suction-side and discharge-side manifolds with threaded or round flange connection on one side

- All components mounted on one baseplate

- Pumps mounted on the baseplate with anti-vibration mounts

- 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: IP54

**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

- 2 volt-free digital outputs for a general fault message (urgent or not urgent)

- Remote maintenance with the KSB ServiceTool

- Display indicating:

 o Operating hours per pump

 o System pressure

 o Status of dry running protection

 o Inlet pressure

 o Alerts and warnings (incl. history)

 o 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 or 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:**

- Make: KSB

- Type series: KSB Delta Primo SVP

- Material price group: LB

**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 Primo SVP**

**1983.556/03-EN**

**Subject to technical modification without prior notice**

**27 July 2020**