

DE S

Simplex pressure booster

Fully automatic, non self-priming, simplex pressure boosting system made from stainless steel (1.4301) for particle-free water.

The pump is switched on by an installed pressure monitor, with the diaphragm vessel serving as a buffer storage. The adjustable run-on time of the pump reduces the switching frequency, especially in the case of cyclical or small consumption quantities. Due to a hydraulic switching delay in combination with the diaphragm vessel, pressure surges are minimized. The achievable total pressure is given by the addition of feed pressure and pressure increase due to the booster system. The resulting pressure must not exceed 10 bar.

BENEFITS

- Rugged, corrosion-proof industrial design suitable for permeate delivery
- Connection port for external dry running protection device
- Auto-start of the system after elimination of the dry running fault
- Adjustable run-on time of operating pump

APPLICATIONS

- Increases the pressure in the water supply pipe to a constant value, can be installed upstream or downstream of water softening, reverse osmosis or other water treatment installations



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DESCRIPTION

Scope of delivery

- Stainless steel (1.4301, AISI 304) centrifugal pump mounted on stainless steel frame
- Incl. diaphragm vessel, pressure gauge, pressure switch and check valve
- On/off control on demand, adjustable overrun time (for example when demand fluctuates)
- Terminal box with main switch and terminals for mains connection and potential-free dry-running protection switch
- Operating and collective fault signal as potential-free change-over contacts

Optionally available

- Adapter kit for connecting stainless steel pipes to PVC pipes
- Pump version made of stainless steel 1.4404 (AISI 316)

CONDITIONS OF USE

Typically particle-free water, non-aggressive, or non-explosive media without abrasive or long-fibered components. The pumped medium must not attack the pump materials chemically.

Operating pressure 0 – 10 bar

Operating temperature 2 – 40 °C

TECHNICAL DATA OF SERIES

Voltage 3 x 380 - 415 V

Frequency 50 Hz

Protection class IP 54

Product name	El. load	Hydraulic connection	Dimensions in mm	Pump cap. / head	Item number
Nom. Vol. m ³ /h	kW	suction / pressure	W x D x H	m ³ /h / m	
DE 1 S	0.46	Rp 1" / Rp 1"	380 x 560 x 1,087	0.2 – 2.4 / 52 – 20	440 396
DE 3 S	0.65	Rp 1" / Rp 1"	380 x 560 x 1,087	0.3 – 4.2 / 53 – 22	440 397
DE 5 S	1.5	Rp 1 ¼" / Rp 1"	380 x 560 x 1,087	0.5 – 6.2 / 57 – 32	440 398
DE 10 S	2.2	Rp 1 ½" / Rp 1 ½"	380 x 560 x 1,087	1.0 – 15.0 / 48 – 23	440 399