

# MultiSafe KLS 3000 2400

Combined protection against lime and leakage



## Field of application

The SYR MultiSafe KLS 3000 offers all-round-safety for the domestic water installation. It combines function units for protection, monitoring and regulation. This combination device includes a module for protection against lime formation which is tested by an internationally recognised test institute (DVGW in Germany) as well as leakage pro-

tection and a management and diagnosis system; in addition, it displays the water consumption and has a docking point for a SYR-Drufi-Filter and a further water treatment device. A message in the display indicates when service is due. These modules are controlled by the central processor unit of the MultiSafe.

## Design

The electro-dynamic water treatment prevents the deposition of lime particles in the domestic water installation and on valves. The KLS 3000 plus type also offers protection against corrosion. The monitoring electronic system allows to recognise leakage. When the

pre-programmed values are exceeded, the system isolates the whole installation. The MultiSafe offers a vacation function for a tighter supervision. The management and diagnosis system allows individual setting of all important function data.



## MultiSafe KLS 3000 2400

### Materials

The body is made of a low-lead, dezincification resistant gunmetal alloy. The treatment unit is made of high-quality synthetic material, the covering cap and the internal synthetic parts are made of shock-resistant thermoplast and the rubber parts are made of ageing-resistant elastomers. All remaining function components are made of a low-lead, dezincification-resistant gunmetal alloy or stainless steel. The

ring seals are made of asbestos-free fibre. All materials are tested and certified by an internationally recognised test institute (DVGW in Germany). All synthetic parts coming into contact with water intended for human consumption comply with the recommendations of the German Public Health Office (KTW).

### Installation

Use a flange DN 20 - DN 32 from the extensive Drufi Flange programme to mount the MultiSafe KLS 3000. A MultiSafe KLS 3000 is generally recommended in one-family houses or for the protection of a dwelling unit. It has

to be centrally installed behind the water meter in the pipe. When a Drufi is already mounted, there is no need to change the installation as the MultiSafe KLS 3000 includes a docking point for the Drufi.

Thoroughly flush the pipe prior to installation. Install the required Drufi connection flanges in vertical or horizontal pipes under consideration of the direction of flow and without applying stresses. All electric connections are pre-assembled in factory.

Prior to installation, ensure that there is a minimum distance between the bottom and the middle of the pipe of 450 mm. The MultiSafe is equipped with a holding device to be wall-mounted for a solid assembly.

### Technical data

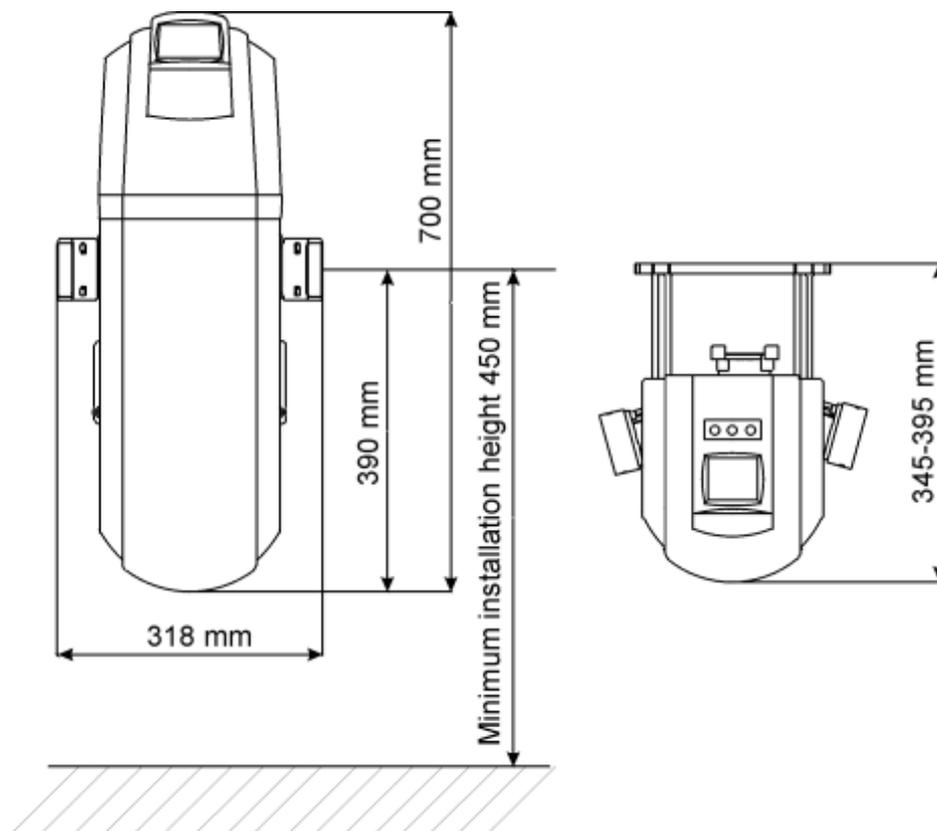
Operating pressure:	min. 2 bar, max. 10 bar
Operating temperature:	max. 30 °C
Mounting position:	main axis vertical
Fluid:	potable water
Flow rate:	3.0 m <sup>3</sup> /h
Pressure loss at nominal flow rate:	0.5 bar
Power supply:	230 V/ 50 Hz
Electric supply capacity:	max. 55 W
Capacity in Stand-By-status:	5 W
Protective system:	IP 21
Maintenance interval of treatment unit:	400 m <sup>3</sup>
Certification N° DVGW:	Anti-lime protection: DW-9191BM0239
Serial N°:	2400...

### Maintenance

The treatment unit shall be exchanged after a water throughput of 400 m<sup>3</sup> in order to maintain optimal effectiveness. The MultiSafe KLS 3000 displays a maintenance reminder. When

the treatment unit has been exchanged, it can be sent back to the SYR Company free of charge for recycling.

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Connection flange must be ordered separately. Please mention required size DN 20, 25 or 32.

Nominal size	DN 20 - DN 32	
	A	G ¾ - G 1 ¼
Dimensions	H (mm)	700
	h (mm)	390
	L (mm)	318
	T (mm)	345 - 395

**Models** with protection against corrosion:  
KLS 3000 plus: 2400.00.001

# MultiSafe KLS 3000 2400

Components / Order numbers

①  
**Head part electronic system**

②  
**Wall-mounted holding device**  
2400.00.906

③  
**Y-Flange**  
2400.00.904

④  
**Treatment unit**  
2400.00.900  
2400.00.910 (plus)

⑤  
**Covering cap**  
2400.00.901

