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Drufi+ FR
2315

Semi-automatic backwash filter

Field of application

SYR Drufi+ FR is a valve combination specially designed for installation at the domestic point of entry with a semi-automatic backwash filter. The Drufi+ FR has undergone acoustic testing and is suited for installation in residential buildings. When connected to a drain pipe of nominal size DN 50, the tundish leads the backwash water into the sewage system.

The integrated construction form results in a compact unit, so that installation is possible even in confined spaces. Use the Drufi flange programme for installation in the pipe. The flanges can be mounted in vertical and horizontal pipework. The integral pressure reducing valve allows individual pressure setting.

Design

The Drufi+ FR is composed of a mechanical semi-automatic backwash filter. It also includes a flange seal, hexagon socket screws for the flange assembly and an assembly key for the hexagon socket screws.

Materials

The filter cap is made of high-quality synthetic material. The body and the internal synthetic parts are made of shock-resistant thermoplast, the rubber parts of ageing-resistant elastomer. All remaining functional parts 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 in Germany (DVGW). All synthetic components getting in contact with water designed for human consumption are approved by the German Public Health Office (KTW).

Installation

It is recommended to install a filter in a drinking water system to protect it against corrosion and many applications require pressure reducing valves. Both valves shall be installed directly behind the water metering system and be easily accessible. In the Drufi+ FR, the filter is located upstream of the pressure reducing valve in order to protect the latter.

Thoroughly flush the pipework prior to installation. Use filtered water from the first onset of the drinking water installation. Always use a flange to mount the Drufi+ FR, which allows installation in vertical and horizontal pipes. The main axis of the filter has to be vertical. Install the suitable flange in the pipework without applying stresses. Attach it to the filter body with 4 stainless steel screws; pull them pressure-tight crosswise with the key included in the delivery.

Technical Data

Operating pressure:	min. 2 bar, max. 16 bar
Operating temperature:	max. 30°C
Mounting position:	any, with angle tundish also in horizontal position
Fluid:	potable water
Mesh width:	90 µm
ABP-No.:	P-IX 6951/I
Flow rate capacity:	DN 20: 3,0 m³/h at 0.2 bar Δp
	DN 25: 3,8 m³/h at 0.2 bar Δp
	DN 32: 3,9 m³/h at 0.2 bar Δp
	DN 20: 4,9 m³/h at 0.5 bar Δp
	DN 25: 6,1 m³/h at 0.5 bar Δp
	DN 32: 6,3 m³/h at 0.5 bar Δp
Serial number:	2315.00.081

Maintenance

When the flow rate is reduced due to increased pressure loss, but every 6 months at the latest, the filter needs to be serviced by backwashing. The backwash system is semi-automatic. Open and close the ball valve to trigger the automatic backwash operation of the complete filter. Even during backwashing, the device continues to supply filtered water into the potable water system. When the filter has been exchanged, set the maintenance indicator by means of the slide to the month of the next backwash operation. The Drufi+ FR can be retrofitted with an automatic backwash system to become a fully automatic backwash filter.
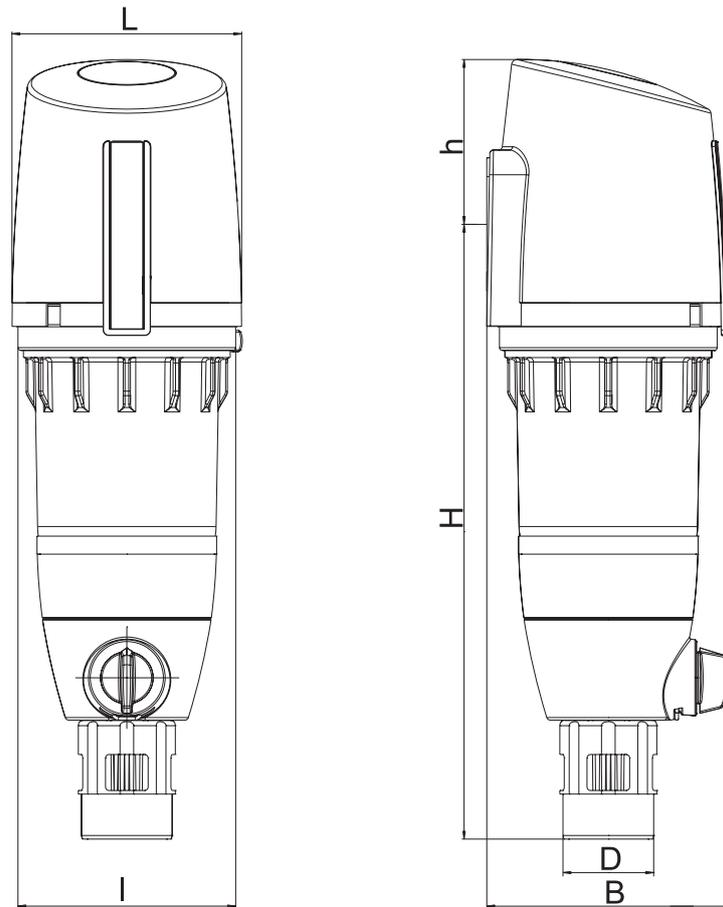
Nominal size		DN 20 - DN 32
	A	G ¾" - 1 ¼"
Dimensions	H (mm)	341,5
	h (mm)	92
	L (mm)	127
	l (mm)	120
	D (mm)	50
	B (mm)	135

Accessories   Automatic backwash system: 2316.00.080

Components / Order numbers

①
Cover
2315.01.919

②
Clip
2315.01.910

③
Valve body
2315.00.929

④
Filter insert
2315.00.930

⑤
Supporting part
2315.00.932

⑥
Spring
2315.00.961

⑦
Filter cap
2315.01.915

⑧
O-Ring filter cap
2315.01.922

⑨
Knob
2315.01.923

⑩
Tundish
2315.01.921