Braukmann
RR11 / RR74

Reverse rinsing actuator
for fully automatic filter cleaning

Application

The RR11/RR74 reverse rinsing actuators take over the fully automatic cleaning of the lead-free fine filters HS10S, F76S, FK76S, F74CS, FN74CS, FK74CS and FKN74CS. The reverse rinsing intervals of the RR11 can be set in 10 stages and are between 2 hours and 6 months. The reverse rinsing intervals of the RR74 can be set in 6 stages and are between 7 days and 6 months.

The actuators have an emergency function in the event of a power failure. The actuator will drive the shortest travel path to close position using energy stored within the SuperCap energy storage block. When the actuator reach the closed position it will stop in this closed position until the reliable supply is restored.

Connection options for differential pressure switching, remote switching or remote monitoring are available with the RR11; the necessary components must be provided by the customer.



Approvals

- CE

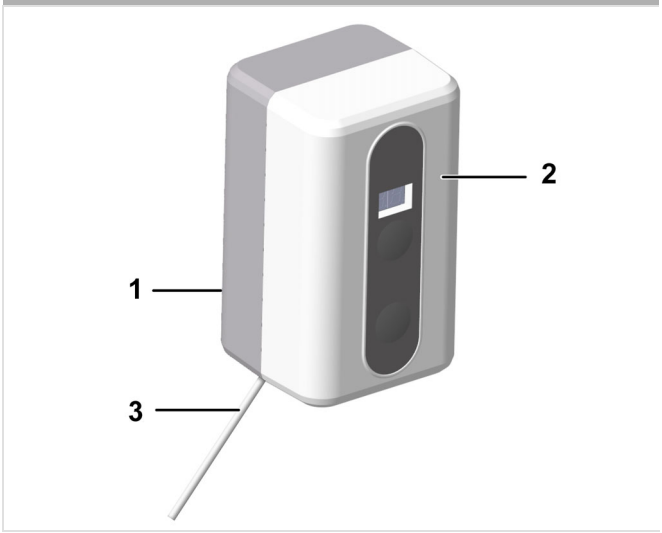
Special Features

- Push buttons give easy setting of intervals
- Push button for manual operation of reverse rinsing
- Digital indicator of time interval set
- Settings are maintained even when electrical power fails
- Can be set to 10 or 6 different reverse rinsing intervals
- Automatic run-on if mains supply fails
- Manufactured with integral electrical suppression
- Can be connected for differential pressure switch, remote operation or remote monitoring
- ISO-flange connection enables fitting without tools
- 5-year warranty

Technical Data

Operating temperatures		
Max. water temperature:		70 °C
Specifications		
Mains cable:		3 metres
Time intervals:		
	RR11	2, 6, 24 hours; 3, 7, 15, 30 days; 2 months (factory setting), 3, 6 months
	RR74	7, 15, 30 days; 2 months (factory setting), 3, 6 months
Torque:		
	RR11	5 Nm
	RR74	3 Nm
Flange:		Size F03 according to ISO 5211
Ambient conditions:		5 - 90 % relative humidity, 0 - 55 °C
Protection class:		1 DIN VDE 0700-T1/EN 60335-1
Protection type:		IP55 sprayed water

Construction

Overview


	Components	Materials
1	ISO-flanged connection	-
2	Housing	High-quality synthetic material
3	Mains cable	-

Method of Operation

Actuator is performing regular cleaning of the filter mesh by short redirecting of water direction through filter mesh exiting to the water spill hose.

Actuator is performing backwash cycle based on one of preset programs. Alternatively, the backwash cycle is initiated remotely through signal communicated on wiring terminal. Backwash cycle can is also triggered by differential pressure sensor.

Maximum driving torque is 5 Nm, RR74S-A model has 3 Nm.

Note: The Model RR74S-A features a reduced set of capabilities, including a torque limit of 3 Nm, a restricted range of time programs, and the absence of a BMS interface.

Reverse rinsing

Reverse rinsing duration when mains electrical operation approximately 25 sec.

Reverse rinsing quantity at 4.0 bar operating pressure.

Filter size	Drain connection	Reverse rinsing quantity (litres)
$^1/_2$" + $^3/_4$"	DN50	12
1" + 1$^1/_4$"	DN70	15
1$^1/_2$" + 2"	DN70	18

Transportation and Storage

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	0 °C
Max. ambient temperature:	55 °C
Min. ambient relative humidity:	5 % *
Max. ambient relative humidity:	90 % *

*non condensing

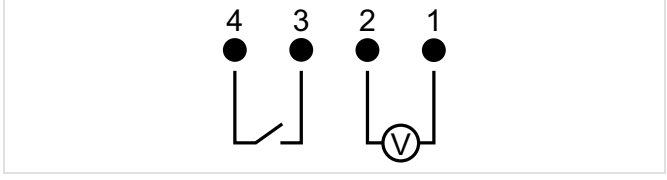
Installation Guidelines

Setup requirements

- Before you start installation, please make sure your backwash filter spill hose is connected to drainage network, part of installation process is testing backwash cycle.
- Upon connection to external power network via supplied original power adaptor. Actuator would start charging of internal power backup supercapacitor. Charging process takes approximately one minute and is indicated by 3 red LED bars growing down to up on device segment display.
- Once charging process is completed, Actuator will perform one testing, backwash cycle that takes approximately 25 seconds.
- The segment display will show the program number, which tells you how often the backwash operation happens (every 2 months by default).

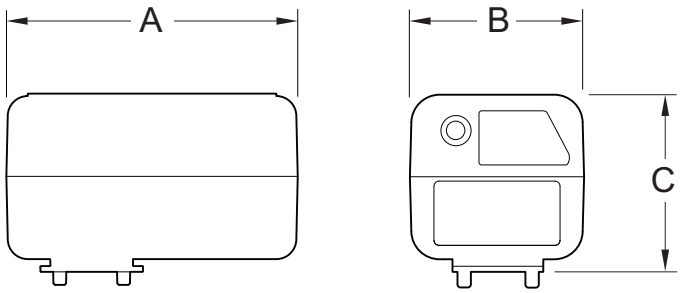
Wiring terminal only for RR11

- The plug connector is compatible with wires with cross section from 0.2 mm^2 to 1 mm^2. Actuator supports attaching cable with sleeve diameter from 4 mm to 8 mm. Maximum length of BMS cable is 30 m.
- Remove the plastic cap located above product label, use small screwdriver or small tip to help cap removal.
- 4-pin terminal is visible. Pin corresponds to scheme displayed on product label.
- Perform wiring of auxiliary device, open/close contact is between pin 1 and 2, feedback signal between pin 3 and 4.
- Configure the product for proper response on auxiliary device. Following voltage ranges are reserved.



Dimensions

Overview



A	B	C	Type
116	68	70	RR11 / RR74

Note: All dimensions in mm unless stated otherwise.

Ordering Information

The following tables contain all the information you need to make an order of an item of your choice.

Options

Voltage	Nominal torque (Nm)	BMS	Item No.
230 V / 50 Hz	5	Yes	RR11S-A
110 V / 60 Hz	5	Yes	RR11S-AGB
230 V / 50 Hz	3	No	RR74S-A

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