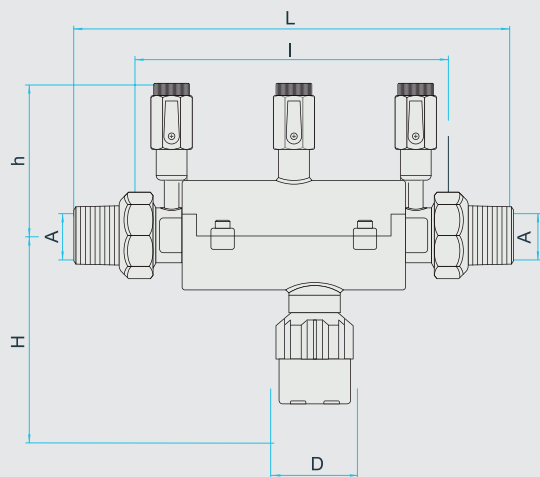


Dimensions



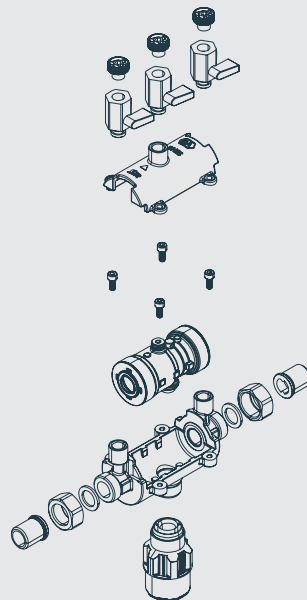
Size

DN 15 DN 20 DN 25 DN 32 DN 40 DN 50

	A	R 1/2"	R 3/4"	R 1"	R 1 1/4"	R 1 1/2"	R 2"
L	201	240	248	350	354	375	
l	145	178	178	260	260	260	
H	95	95	95	115,4	115,4	115,4	
h	70	79	79	96	96	96	
D	40	40	40	40	40	40	

Dimensions
in mm

Spare parts



Cartridge:

(DN 15):	SKIT270001
(DN 20+25):	SKIT270002
(DN 32-50):	SKIT270003

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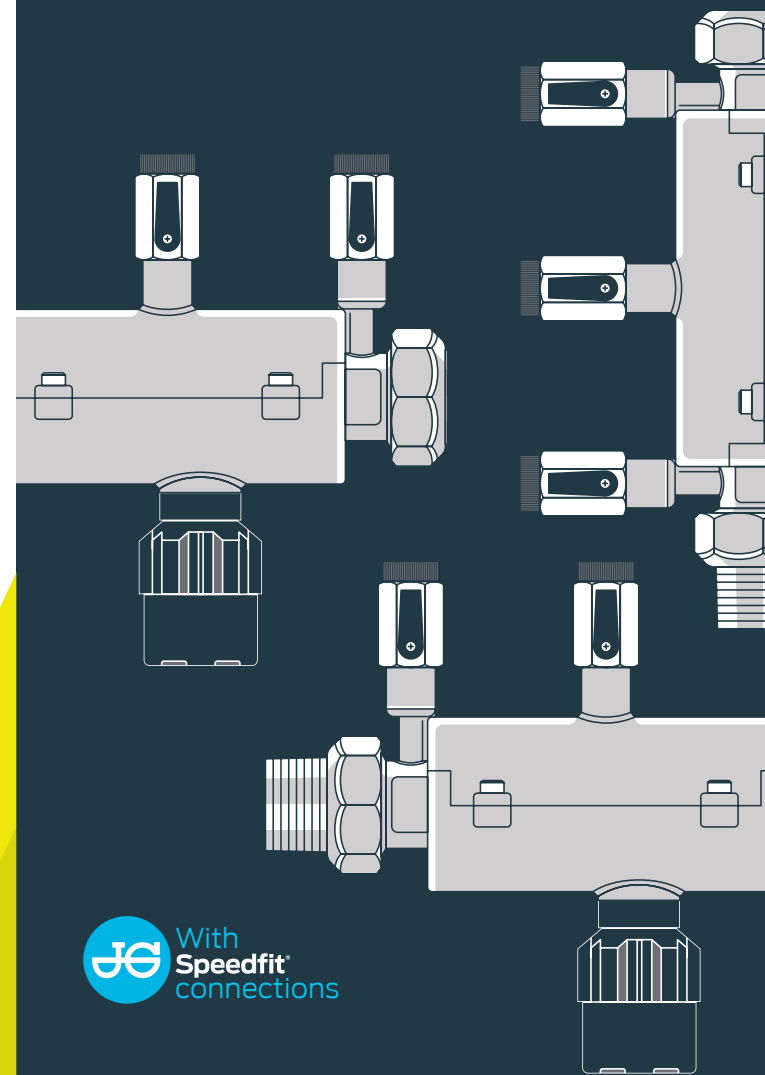
Horton Road
West Drayton
UB7 8JL
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www.rwc.co.uk

Reliance Worldwide Corporation (UK) Limited reserves the right to make changes to the product which may affect the accuracy of information contained in this leaflet.

ZINS112010/001/0719



6610 series RPZ Valve



AN RWC BRAND
RWC

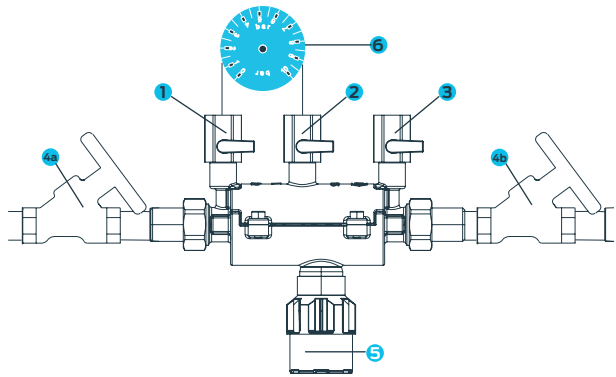
Maintenance

Before opening the valve for service, isolate and depressurize it first

According to EN 1717, the Backflow Preventer has to be serviced on a regular basis. Therefore maintenance agreements between user and installer are very useful. The correct function has to be verified after the first service year and then periodically in accordance with the operating conditions, but every year at the latest. The ball valves in each pressure zone allow to check the correct operation of the valve by means of the pressure gauge. The Backflow Preventer is designed with a cartridge system, which makes regular maintenance easier.

Verification of the disconnection of the discharge valve and the secondary check valve

- To check the discharge valve, close both shut-off valves 4a + 4b.
- Mount the pressure gauge's needle valves on the service valves 1+2.
- Fit the pressure gauge (6).
- Open both shut-off valves 4a + 4b.
- Use both needle valves to vent the device. Once done then close.
- Close the shut-off valves 4a + 4b.
- Use needle valve 1 to slowly relieve the pressure.
- Watch the tundish. When the first drop comes out of the tundish, the differential pressure shall exceed 140 mbar. If it is not the case, dirt has accumulated in the device or there is a mechanical defect.
- Open needle valve 1 and discharge the intermediate pressure zone until completely drained.
- To verify the secondary check valve (RV2), open the outlet shut-off valve (4b). Should water drip from the tundish, there is probably a mechanical defect or dirt has accumulated in the secondary check valve. If any of the tests fail, the cartridge needs to be replaced.
- Close both service valves 1+2.
- Remove the pressure gauge (6).
- Open both shut-off valves (4a + 4b).



- ① Service valve inlet pressure zone
- ② Service valve intermed. press. zone
- ③ Service valve outlet pressure zone
- ④a Primary stop valve
- ④b Secondary stop valve
- ⑤ Drain valve
- ⑥ Pressure gauge

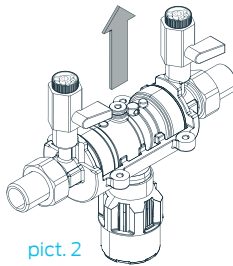
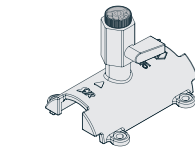
Installation

Thoroughly flush the pipe prior to installation. Service valves should be provided either side of the Backflow Preventer. Mount the device in the pipe with the drain valve facing downwards to ensure correct operation of the tundish. Free access to the Backflow Preventer shall be provided to facilitate maintenance works and the inspection. Do not install the device in locations liable to frost and flooding. It should only be mounted in a well-ventilated environment. The drain pipe's diameter shall be able to accommodate the maximum discharge volume. We recommend installing a potable water filter according to EN 13443, part 1, upstream of the Backflow Preventer in order to ensure correct and durable operation. Once installed, vent the device by means of the 3 ball valves. Then, the Backflow Preventer is ready for operation. When connecting the tundish to the sewer, comply with the requirements set in the standard EN 12056.

Changing the RPZ-Cartridge

Before opening the valve for service, isolate and depressurize it first

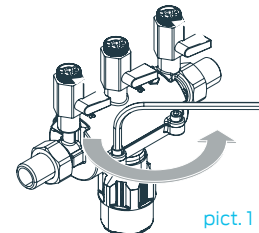
- Close the shut off valve in front and behind the valve and open the service valves 1 + 3.
- Remove the 4 Allen screws of the housing (pict 1).



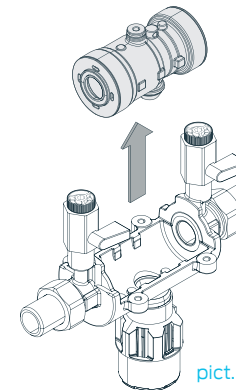
- Remove the RPZ-cartridge and change it if necessary (pict 3)

- Reassemble in reverse order.
- Close the service valves 1 + 3.

- Open the shut off valve in front and behind the valve and open the service valves 1 + 2 and 3 to vent.



- Remove the cap of the housing (pict 2)



Field of application

The Backflow Preventer RPZ 6610 is designed to protect potable water against non potable water up to and including fluid category 4 in compliance with EN 1717.

Design

The RPZ Backflow Preventer includes a casing, an integral strainer, mesh (approx width 0.4 mm), a cartridge with integral check valve and drain valve, a check valve at the outlet, a 3 ball valves to connect a differential pressure gauge, threaded unions and a drain connection.

Materials

- Body made of high quality low-lead brass alloy
- Cartridge of high-quality synthetic material
- Check valve made of high-quality synthetic material
- Sealing elements made of NBR and EPDM
- Internal parts of high-quality synthetic material / brass
- Drain connection of high quality synthetic material

Technical specifications

Medium:	potable water
Upstream pressure:	max. 10 bar
Min. inlet pressure:	1.5 bar
Mounting position:	horizontal, drain facing downwards
Service temperature:	max. 65 °C
Drain pipe connection:	FBSP
Flow rate:	DN 15: 2.9 m ³ /h, fjp 1.5 bar
	DN 20: 5.1 m ³ /h, fjp 1.5 bar
	DN 25: 7.9 m ³ /h, fjp 1.5 bar
	DN 32: 13.0 m ³ /h, fjp 1.5 bar
	DN 40: 20.3 m ³ /h, fjp 1.5 bar
	DN 50: 31.8 m ³ /h, fjp 1.5 bar
ABP-Nr.:	P-IX 16851/I (DN 15 - 25)
	P-IX 16950/I (DN 32)

Function description

The RPZ Backflow Preventer 6610 includes all components set by EN 1717 and is designed as a 3 pressure-zone-system with a controllable upstream, intermediate and downstream pressure zone. Each pressure zone is equipped with ball valves allowing to check each zone and to ensure the leak tightness of the safety devices by pressure measurement. When no water is drawn off, the check valves on either side and the drain valve are closed. In case of back-siphonage, the inlet pressure drops. The drain valve opens when the differential pressure between the upstream and intermediate zone decreases to 0.14 bar.

- ① Upstream pressure zone
- ② Intermediate pressure zone
- ③ Downstream pressure zone
- ④ Tundish

