

Data Sheet

ZC-RF-DS-01/23-03

Zonecheck Retro-Fit

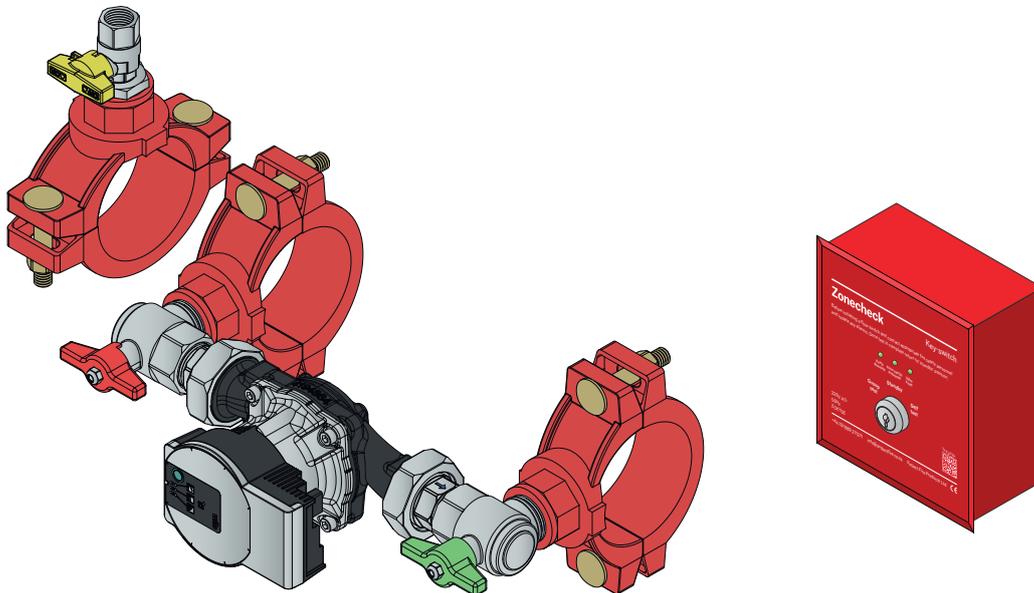
OVERVIEW

Zonecheck Retro-fit is a remote flow-switch testing device that fits around an existing flow-switch. It works by using a closed loop system that re-circulates water to simulate sprinkler head operation and tests the flow-switch without discharging water. When the pump is activated via the local key-switch, water is circulated across the flow-switch at a flow equivalent to one sprinkler head in operation (required by code standards). The Key-switch is used to activate the Zonecheck test and indicate flow-switch activation as well as the local valve-status.



IMPORTANT

Included with Zonecheck Retrofit is an additional mechanical tee with vent valve. The fitting of this additional vent is recommended to ensure reliable operation of the Zonecheck as large quantities of trapped air may affect the performance of the pump. The vent can be installed at any convenient location but is recommended to be installed on the top of the pipe within 500mm (either) side of the flow-switch. Note: for vertical installation, the vent is not required.



Specification

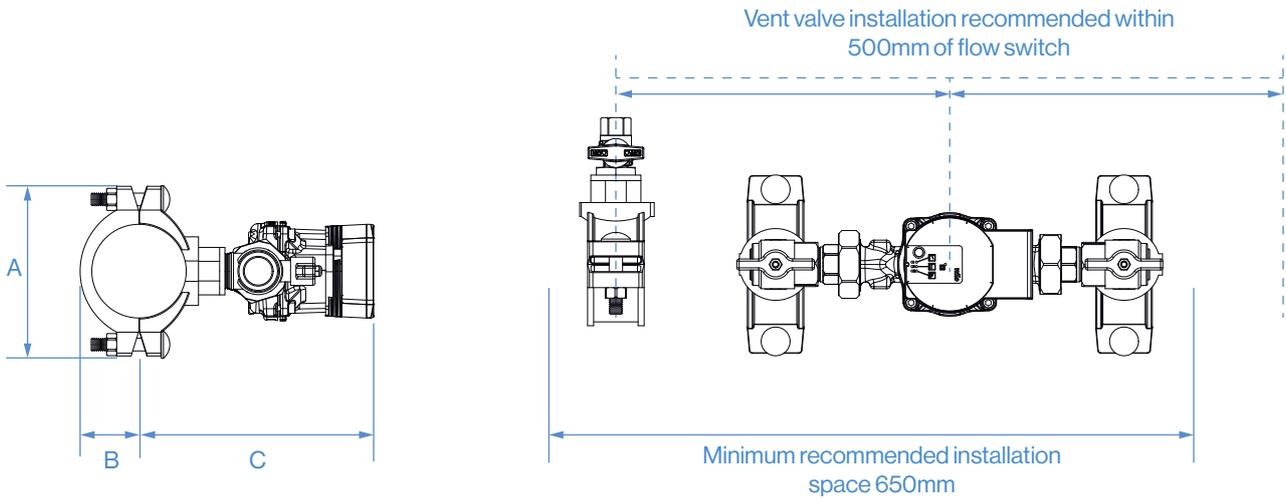
ZONECHECK	
Working pressure rating	Water, 12 bar (175 psi) max
Operating temp range	0°C - 49°C (32°F - 120°F)
Mech tee diameter	50/65/80/100/150/200mm (2-8")
Approvals	LPCB, UL, FM and VdS
IP Rating	IPX4D
PUMP	
Type	Wilo Para
Operating voltage	230v 50Hz
Amps	0.82A
Max power rating	75W
IP Rating	IPX4D

KEY-SWITCH	
Voltage	230v 50Hz
Internal consumption	7.5W max
Amps	0.88A
LED indication	Pump running Flow-switch activated Valve fault (Optional)
Max key-switch group size	25
Max group cable length	300m
Product code (Order No.)	ZCKYSE
Spare key set (Order No.)	ZC-ALKK

Dimensions

PART CODE	IN	ØMM	A	B	C	D
ZC-RF50	2"	50	130	45	64	210
ZC-RF65	2½"	65	150	55	75	220
ZC-RF80	3"	80	162	56	81	220
ZC-RF100	4"	100	195	72	100	235
ZC-RF150	6"	150	260	100	130	275

*Please leave a minimum of 160mm above the face flow-switch and pump head for access and maintenance.



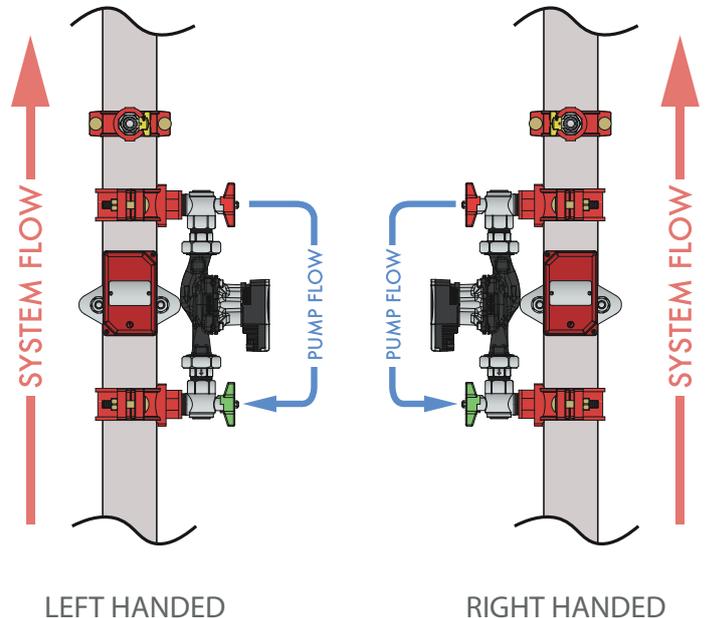
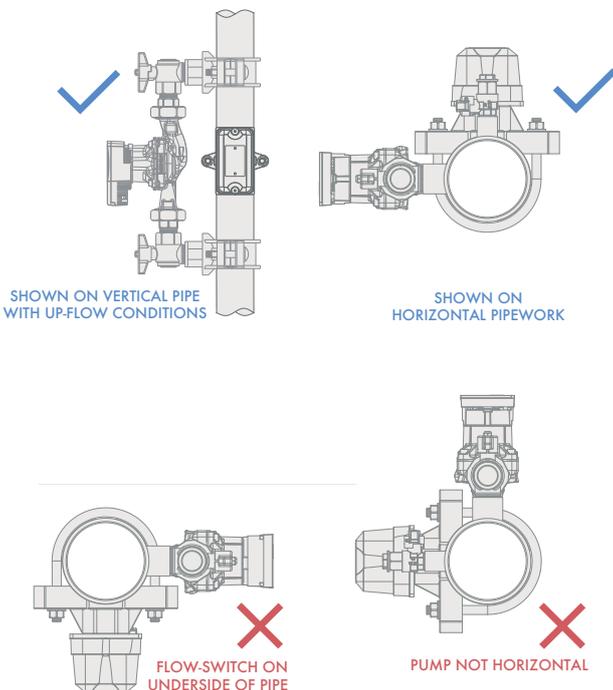
Orientation

Zonecheck can be installed both horizontally and vertically. Please check the directional arrows on the pump casting before installing. Pump flow should be opposite to the sprinkler systems flow.

When installing horizontally the flow-switch must face upwards and can not be installed facing sideways or below the pipe.

For Riser applications, make sure the pump flow runs opposite (downwards) to the sprinkler system.

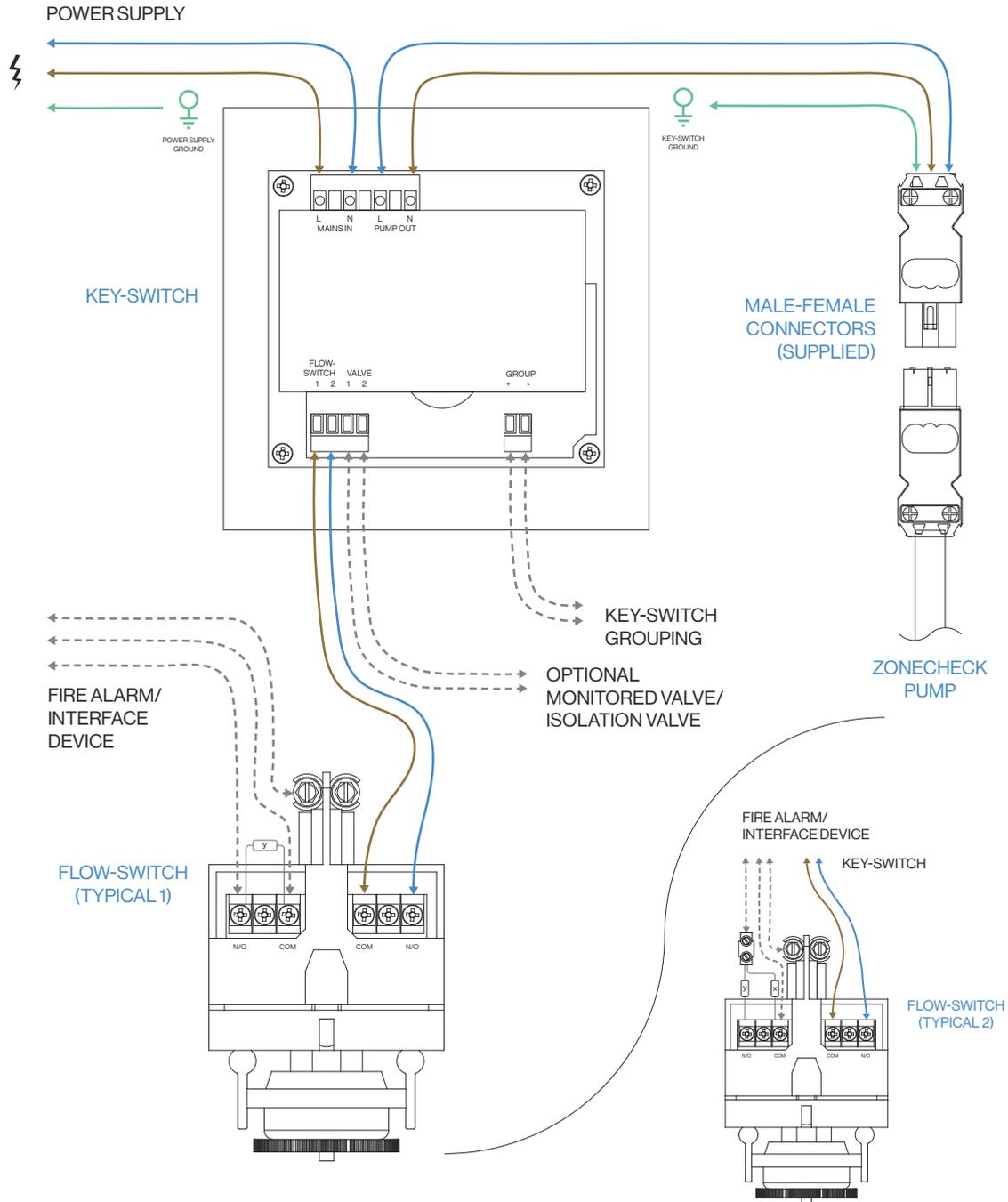
Left hand and right hand models are designed for when Zonecheck is installed along walls and space is limited.



Wiring

Typical fire-alarm/flow-switch connections. Exact wiring required depends on type of fire panel used. Refer to specific fire-alarm panel instructions for more information/guidance.

Resistors sized according to specific alarm-panel requirements.



100% water saving

Remote testing

No water discharge

Approved

Simplified testing method

Code compliant

Sustainable testing

LPCB

VdS

FM

UL

Efficient

Designed and manufactured in the UK by Project Fire Products Ltd.

+44(0)1889 271271
 info@projectfire.co.uk
 www.projectfire.co.uk

Zonecheck® is a registered trademark.
 © Project Fire Products Ltd. 2023.

PROJECT FIRE®