

GUBER-WF

Vane-type waterflow alarm indicator

Guber-WF detects sustained water movement in a wet sprinkler pipe and provides an electrical alarm signal through its switching contacts. It indicates a waterflow condition; it does not measure the flow rate or stop the water supply.



Water deflects the paddle inside the pipe. The time-delay mechanism limits the effect of brief flow disturbances. If movement continues, the switch operates and the connected alarm system receives the signal.

01 Technical parameters

Parameter	Value / configuration
Nominal range	DN50–DN200 / 2"–8"
Maximum working pressure	450 psi / 31.0 bar
Operating temperature	0°C...+49°C
Steel pipe	SCH 10–40
Contact ratings	AC 125/250 V: 8 A DC 24 V: 3 A · DC 30 V: 2.5 A

Wet-pipe sprinkler systems only. Protect against water freezing.

02 Approval and scope

FM Approvals	Identification	Model / standard
Model certificate	PR474502	GUBER-WF · FM 1042

Approval applies to the specified configuration; it must not be transferred to other models, connections or complete installations.

03 Drawing and dimensions

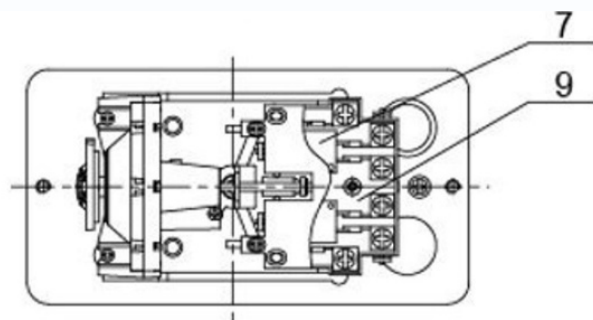
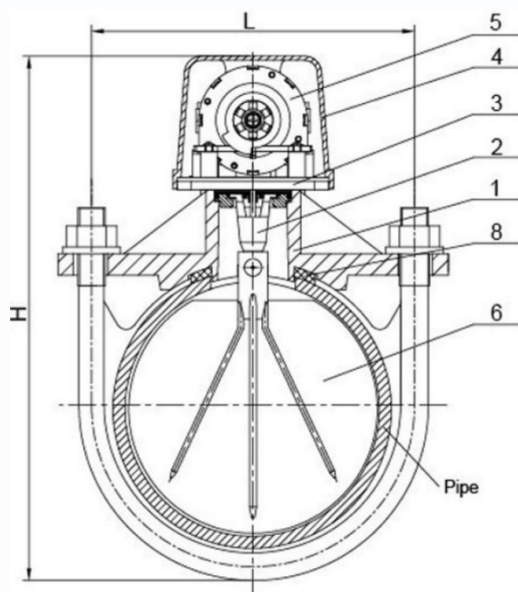


Figure 1 Outline Drawing

Figure 1. Dimensions L and H and component positions. Unit: mm.

DN	OD [mm]	L [mm]	H [mm]	Mercatura code
50	60.3	85	188	M-WFS-060
65	76.1	92	200	M-WFS-076
80	88.9	106	220	M-WFS-089
100	114.3	134	245	M-WFS-114
125	139.7	162	272	M-WFS-139
150	168.3	189.5	298	M-WFS-168
200	219.1	240	350	M-WFS-219

04 Materials and components

Nº	Component	Material
1	Body	Ductile iron
2	Blade rack	SS304 + EPDM
3	Bottom plate	SS304
4	Outer cover	Aluminium
5	Air delay device	Assembly
6	Vane	LLDPE
7	Micro-switch	Assembly
8	Sealing gasket	EPDM
9	Junction box	PC

05 Flow thresholds

Criterion	No alarm	Alarm
FM	$Q \geq 15 \text{ l/min}$	$15 < Q \leq 75 \text{ l/min}$
UL	$Q \geq 15 \text{ l/min}$	$15 < Q \leq 37.5 \text{ l/min}$

FM and UL intervals are flow criteria stated in the device specification. They are not a declaration that every Guber-WF version holds both approvals. Mercatura approval is identified separately.

06 Installation and checks

DN	Pipe opening [mm]
DN50, DN65	32 +2
DN80–DN200	51 +2

Tolerance notation is retained from the specification: "+2", not "±2".

Prepare the pipe opening using the table. Remove burrs and debris. Roll the vane for insertion; do not damage or shorten it. Seat the body, fit the U-bolt and tighten both nuts to the configuration instructions. Align the arrow with flow. Wire the contacts to Figure 3 and verify alarm operation in a flow test.

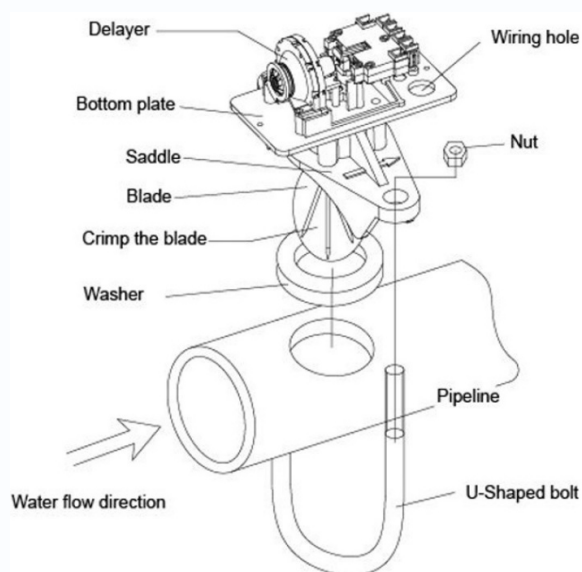


Figure 2 Installation Drawing

Figure 2. Vane insertion, U-bolt and flow direction.

07 Electrical wiring diagram

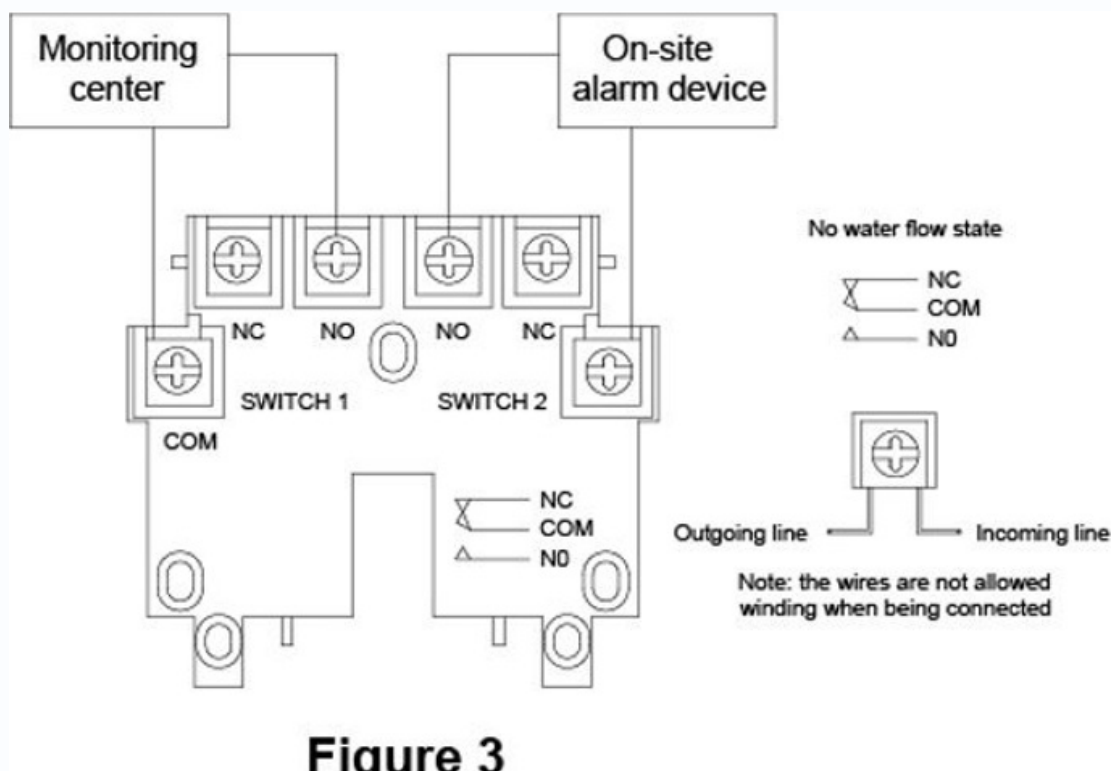


Figure 3

Figure 3. Contacts shown with no flow. COM — common; NC — normally closed; NO — normally open. Do not loop an unbroken wire beneath a single terminal; break the wire as indicated.

08 Operation and maintenance

Inspect for leakage and mechanical damage and perform a functional waterflow test according to the installation maintenance plan.

09 Application limits

Wet systems only. Do not exceed pressure, temperature or contact ratings. Isolate the electrical circuits and affected pipe section before service. Alarm thresholds do not provide a flow measurement function.