

PRODUCT TECHNICAL SPECIFICATIONS

FLOW SWITCH Y-3003

SCOPE

This technical specification includes DN50-200 linked flow switches with clamps.

This technical specification contains design and performance requirements, including pressure/temperature values, dimensions, test procedures, and markings for materials, body, and sealing components.

The coverage-related standards are as follows.

- ❖ FM 1042-2016 – Approval Standard for Vane-Type Waterflow Alarm Indicators

- ❖ TS EN 12259-5-2005 - Water Flow Detector

A. MATERIALS

Plastic Materials:

Thermoplastic material, which does not cause any change in operating performance at 4.5-50 °C ambient temperature, is used.

Electrical Components:

Components that can operate at 10A 250VAC contact ratings in accordance with the requirements of ANSI / NFPA 70

are used.

Clamp:

ETIAL 171 material that can withstand high pressure should be used.

Pallet:

It should be made of polyethylene i20 material that is suitable for curling during assembly.

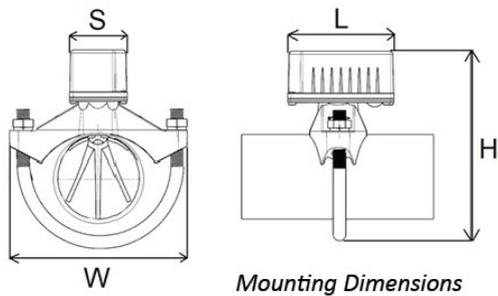
Pipe Gasket :

It must be able to withstand 31 bar pressure without leakage during use.

Bonnet Gasket:

The bonnet gasket must be resistant to dust and water particles.

B. DIMENSION



NOMINAL PIPE SIZE (inch)		L (mm)	H (mm)	S (mm)	W (mm)
DN 50	2	158	187	87	125
DN 65	2.5	158	205	87	125
DN 80	3	158	220	87	146
DN 100	4	158	245	87	168
DN 125	5	158	275	87	220
DN 150	6	158	300	87	230
DN 200	8	158	365	87	275

C. OPERATING PRESSURE

31 BAR (450 PSI)

D. OPERATING TEMPERATURE RANGE

+4.5 - +50 °C

E. FLUID

It should be able to operate with water fluid.

F. MARKING

-DUYAR Logo

- Approvals
- Operating Pressure
- Production Address

G. TEST

Mass Manufacturing Tests;

100% testing is carried out to cover the mass production tests of the FM 1042, UL 346-2014, TS EN 12259-5-2005 standards. The tests conducted in mass production are as follows.

- **Sealing Test:** The product is exposed to 62 Bar pressure for 1 minute. Any kind of leakage should not be observed.
- **Electrical Test:** Switches and body are tested at 1.64kV 5A values for one second each. The operation of the switches in open and closed positions and the absence of electrical leakage in the body is considered as passable state.

H. WARRANTY

The warranty against workmanship and material defects is 2 years.