



ENGLISH

Model 626

INSTALLATION, OPERATION &
MAINTENANCE MANUAL



Delta Controls
CORPORATION

Before installation and operation, please read this manual and take note of all safety instructions. Wear required personal protective equipment during installation, operation, and maintenance. Use this product only if it is in good condition. Delta Controls Corporation is not liable for damage caused by improper or non-designated use.

Delta Controls Corporation reserves the right to modify technical data without prior notice.





1. Introduction	
1.1 Model Overview	4
1.2 Theory of Operation	4

INSTALLATION

2. Installation	
2.1 Installation	4
2.2 Wiring	4

SPECIFICATIONS

3. Specifications	5
4. Schematics	5
5. Model Numbering System	6
6. Application Numbering System	7

1. Introduction

1.1 Model Overview

Model 626 is a target actuated flow switch. It is equipped with a body that fits into and becomes part of the pipeline. It is used to detect very low flow rates in offshore deluge firewater piping systems.

Model 626 is equipped with a fitted target that nearly fills the inside area of the in-line pipeline body under no flow conditions. The target is a “full swing” type. It rotates back 90 degrees to rest against the inside of the pipeline when the flow rate exceeds the calibrated alarm activation flow rate.

The target has been cupped and fitted so that it fills the inside pipe area and is flush against the interior curve of the pipeline during higher flow rates. Only the thin edge of the target, plus its support block, is in the flow. The inside area of the pipeline is not restricted and the result is a full pipe size open bore. This design allows extremely high flow velocities without damage or pressure losses. Even so, the 626 actuates at a very low flow rate, which occurs when a single nozzle has begun to operate.

The Delta Controls Model 626 has detected seawater flow in deluge fire systems for over 15 years. It has been used on offshore oil platforms in the North Sea, Gulf of Mexico, Persian Gulf, as well as near Australia, Indonesia, and Russia. It has also seen service on drill ships and floating production facilities.

1.2 Theory of Operation

Connection of the target to the output switch is done magnetically. A heavy-duty solid sealing tube separates the process media (seawater) from the switch mechanism. Failures that could occur due to seal, diaphragm, and bellows leaks are eliminated.

2. Installation

2.1 Installation

Install the Model 626 flow switch in a horizontal section of the flow line to be monitored. It is important that the vertical centerline of the body be level.

It is necessary that the arrow on the body be parallel with and point in the direction of flow.

The flow rate setpoint of the Model 626 is fixed at the factory and is not field adjustable.

2.2 Wiring

Wire the unit in accordance with the National Electrical or other governing code.

Do not incorrectly wire or overload the electrical contacts as this can destroy the unit or result in unsafe conditions.

- Black: Common
- Blue: Normally Open
- Red: Normally Closed



NOTE

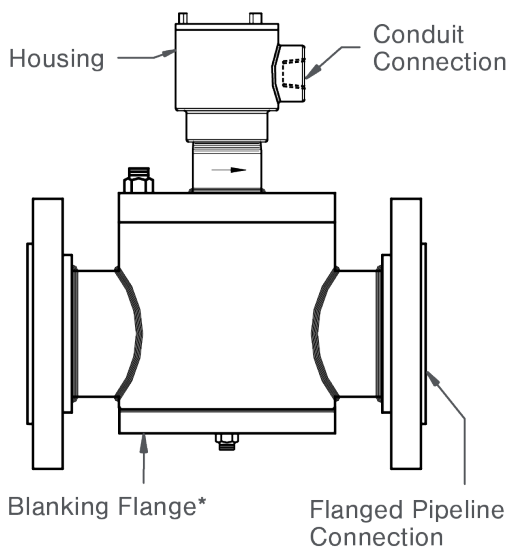
Units with DPDT output have two individual switches and dual sets of the same wire colors. Units with SPDT output have one set of colored wires.



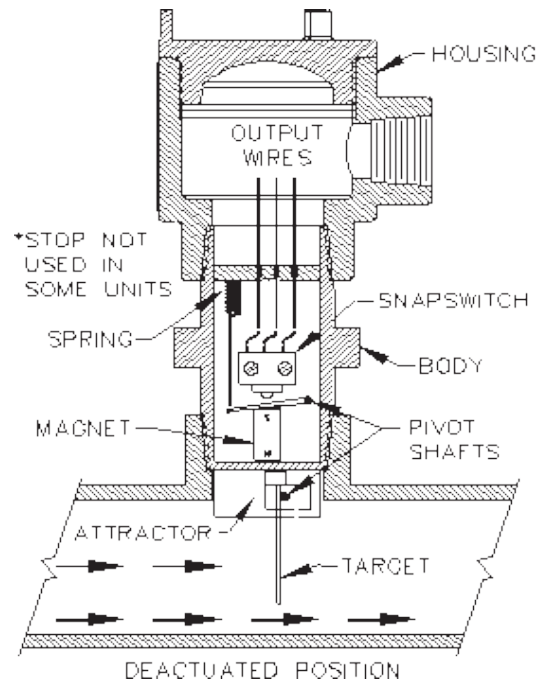
3. Specifications

Style:	Inline
Type:	Full swing
Temperature:	-4 °F to +400 °F (-20 °C to +204 °C)
Standard Pressure:	≤ +2000 psi (≤ +137.9 bar) *Limited by process connection pressure rating
Optional Pressure:	+5000 psi (+344.7 bar)
Actuation:	≥ 3.0 gpm (26.0 L/min) (water)
Deactuation:	≥ 3.9 gpm (14.8 L/min) (water)
Accuracy:	≤ 10%
Output:	Gold contacts; SPDT, 5 A, +220 °F max
Wetted Material:	316 Stainless Steel, Monel 400, titanium Alloy 20 (other materials available)
Housing Material:	Stainless steel, aluminum
Flanged Process Connection:	2 in to 6 in
Flange Rating:	≤ 150 lb
Body Gasket:	Metal spiral; PTFE seal studs and bolts: A-193BB, A-194; stainless steel
Certifications:	Housing is Third Party Listed by CSA NRTL/C (USA and Canada)
Stainless Steel Housing Option Only	

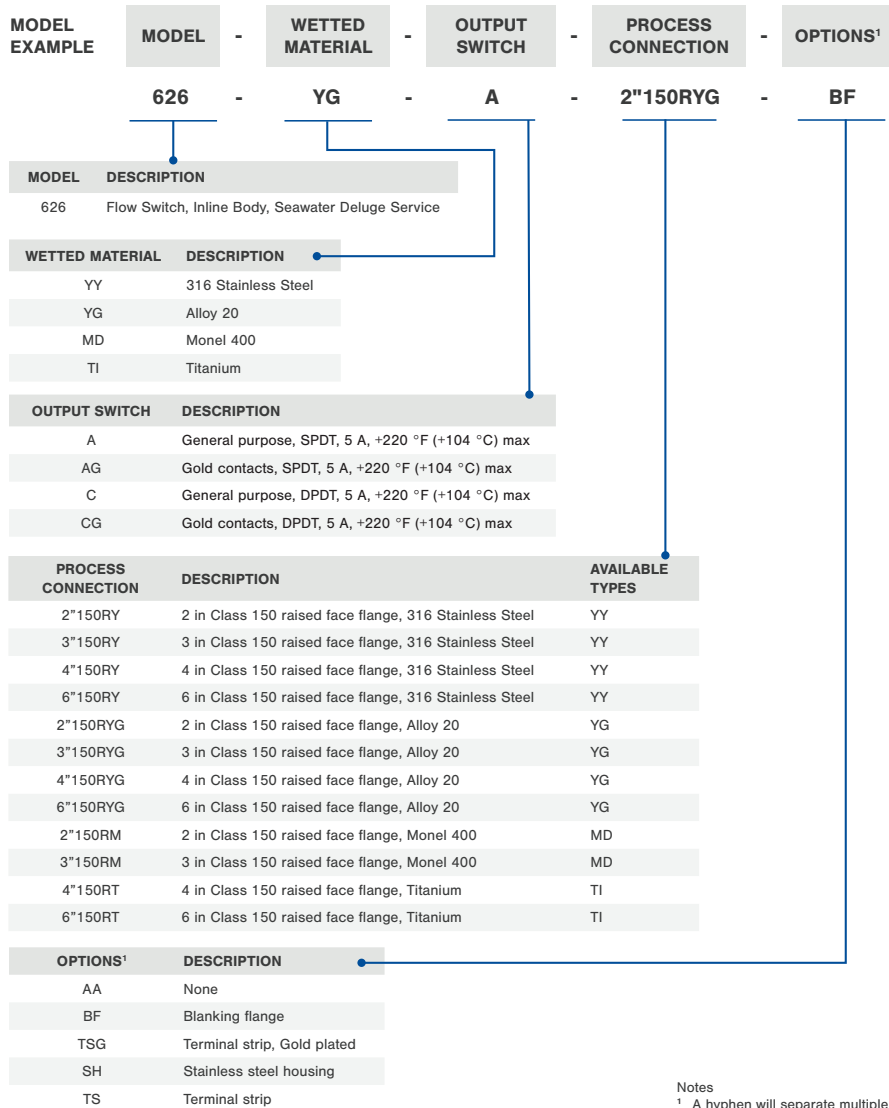
4. Schematics



*For system flushing and testing purposes



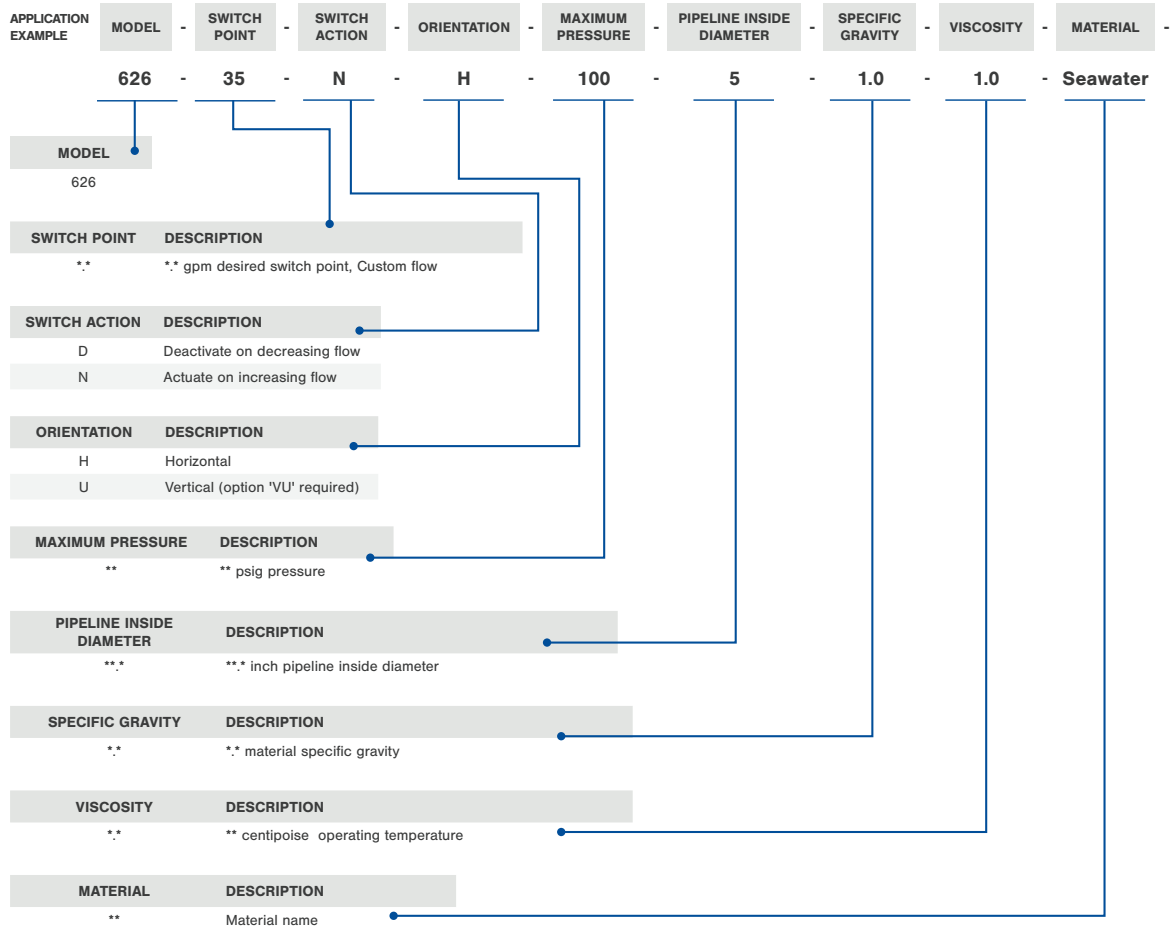
5. Model Numbering System





See next page for Application Number.

6. Application Numbering System





NORMAL FLOW	MAXIMUM FLOW
- 50	- 100
NORMAL FLOW	DESCRIPTION
**	** gpm normal flow rate
MAXIMUM FLOW	DESCRIPTION
**	** gpm maximum flow rate

WATER				
Minimum actuation rates				
	2 IN	3 IN	4 IN	6 IN
gpm	3	4.8	8.5	17.5
L/min	11.4	18.2	32.1	64.5

Contact Us

Since 1972 • All products made at the Shreveport, LA USA factory

Delta Controls Corporation

585 Fortson Street, Shreveport, Louisiana 71107

Phone: 1-318-424-8471 / Email: inquiry@deltacnt.com

www.deltacnt.com/contact/



MADE IN U.S.A.



DELTA.CNT.COM