

# Wallace & Tiernan® Flow Measurement Equipment

## Flow Controllers

# SIEMENS

The Wallace & Tiernan® flow measurement product line offers three types of flow controllers:

- Series 5700 General Purpose.
- Series 5750 General Purpose Purge Controller.
- Series 5800 Purge Type Flow Controller.

Each is designed to maintain a constant set flow rate regardless of variations in the line pressure. All of these basic arrangements are suitable for gas and liquid service.

The Series 5700 General Purpose type has a broad range of applications. It can be used with almost any equipment or within any flow system in which the process fluid is compatible with stainless steel construction. It is ideally suited for the Wallace & Tiernan® Armored Purge Meters, Armored Flow Meters, Direct-View Flow Meters, Glass-tube Varea-Meter® units, and all Wallace & Tiernan® Straight-through Varea-Meter® units.

The Series 5800 and 5750 purge type flow controllers are engineered specifically for use with the Wallace & Tiernan® Glass-tube Purge Meters, Low-flow Meters, and Arma-View®II Armored Purge Meters. Inlet and outlet connections match up for easy adaptation.

### Features

#### Simple, Direct Design

The clean, straight-through design makes it simple to integrate these controllers within a system. Installation piping is direct and uncomplicated.

#### Reliable and Accurate Operation

These controllers maintain a constant set flow rate by sustaining a constant pressure drop across their orifices. The size of the orifice is varied while the pressure drop is held constant. This balance provides a set flow despite changes in the supply pressures.

#### Sturdy Construction

The housing for the general purpose controllers is constructed of 316 SS. The purge flow controller can be either 316 SS or brass construction.

*Series 5750 High Pressure Purge Type Flow Controller*



### Key Benefits:

- Choice of integral and stand alone design allows for flexible installation options
- Easily adapt to existing meters
- Reliable and accurate operation despite changes in the supply pressures
- Chemically resistant to many process conditions
- Wide spectrum of flow rates and pressures allowable
- Easy to integrate controllers within the system with direct and uncomplicated installation piping

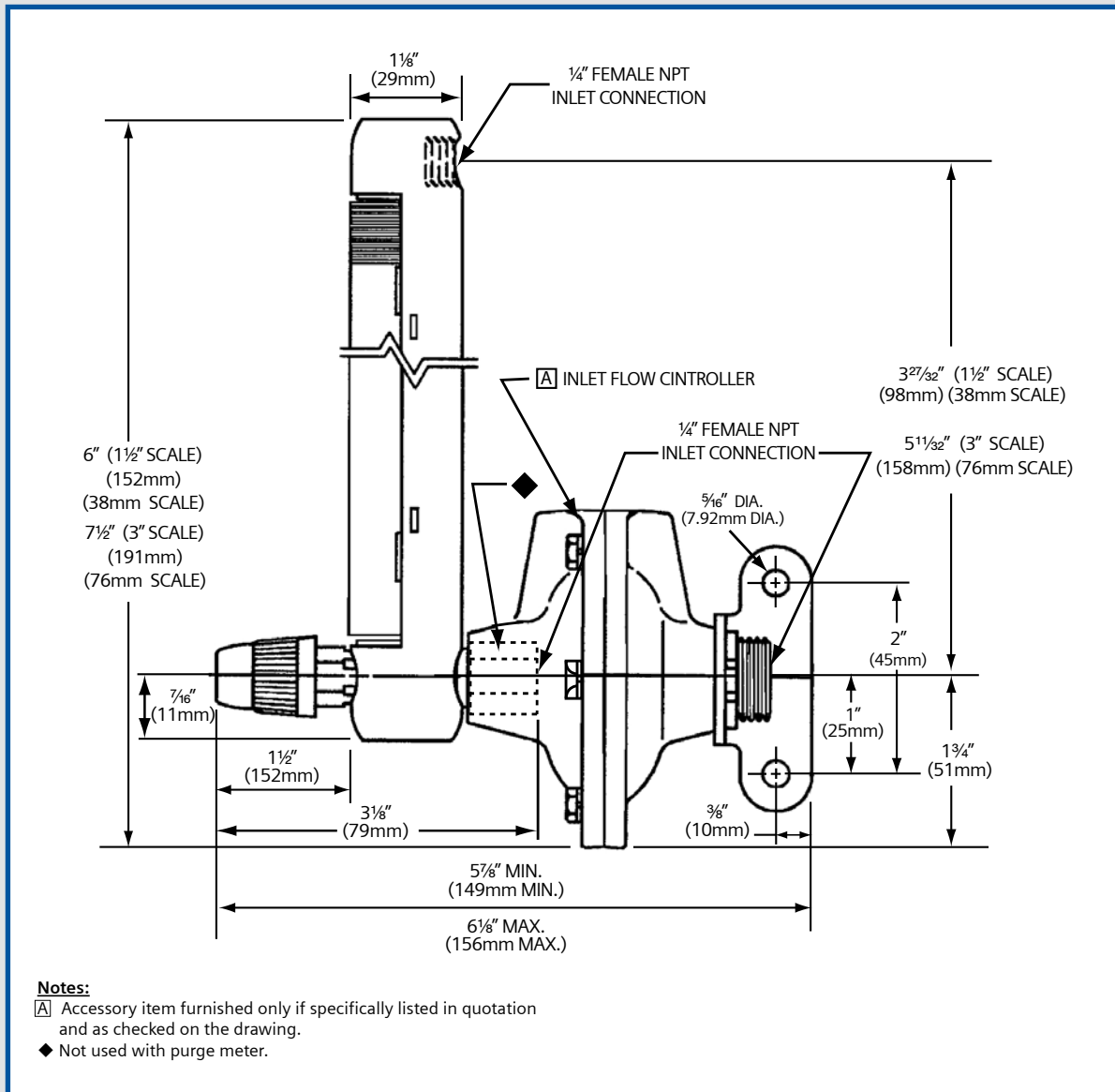
## SERIES 5800 PURGE TYPE FLOW CONTROLLER

This unit is designed specifically for use with the Wallace & Tiernan® Glass-tube Purge Meters and Low-flow Meters. The inlet and outlet connections are immediately compatible with the meters. Connections are simple and direct; the expense of awkward static piping is eliminated. Controllers can be used for gas or liquid, and are available in inlet and outlet configurations.

The units are available in two capacity ranges. Either capacity can be provided in brass or stainless steel construction for a choice of temperature limits.

## Technical Data

	High Cap.	Low Cap.
max. capacity (at STP) gas liquid	193 SCFH 40 GPH	30 SCFH 5 GPH
maximum temperature and materials of construction	200° F – Brass (Black Paint Finish) with Buna-N Diaphragm 250° F – 316 Stainless Steel with TFE Diaphragm	
max. inlet pressure	250 psi	250 psi
pressure drop (at max. flow rate)	8 psi	6 psi
connections inlet/outlet	1/4-inch NPT	1/4-inch NPT
shipping weight	3 lbs.	3 lbs.



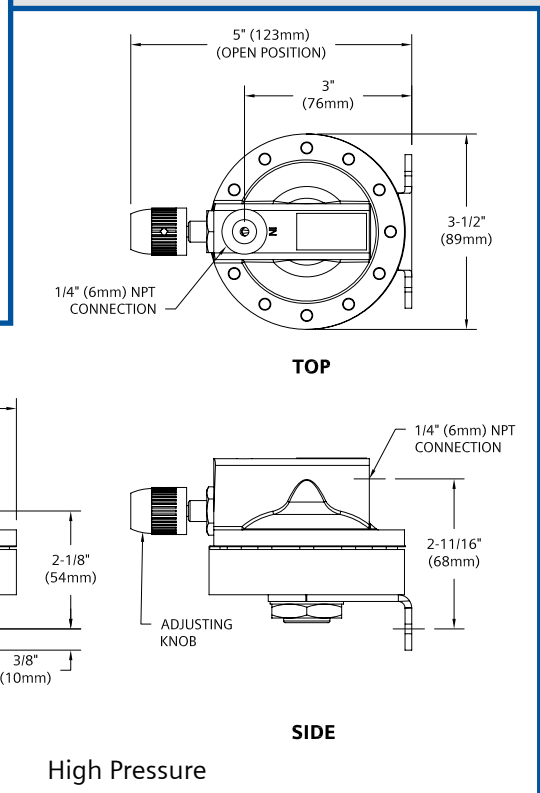
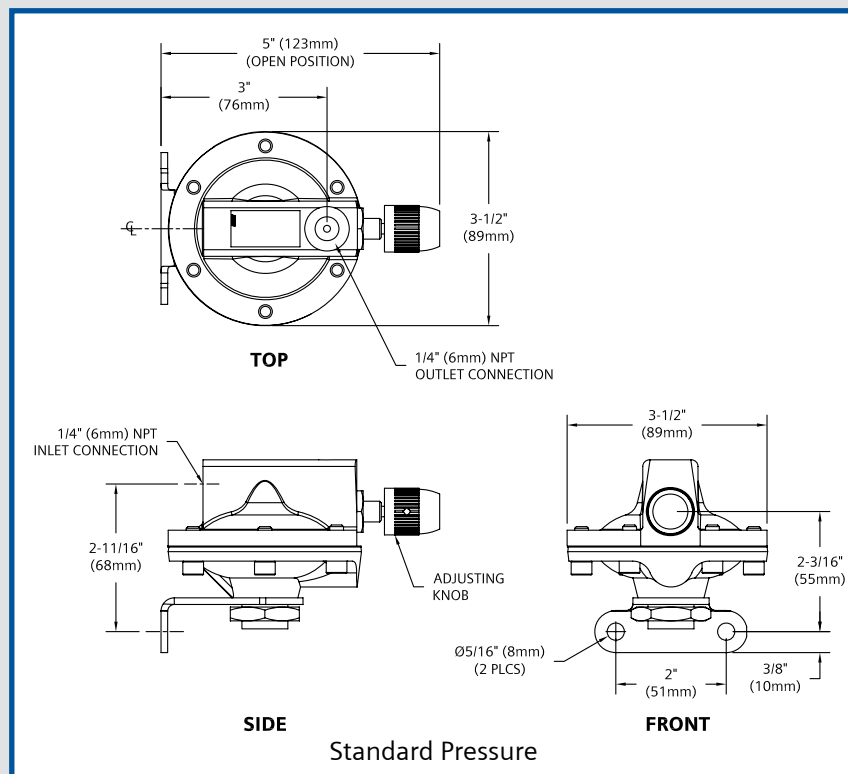
## SERIES 5750 GENERAL PURPOSE

### PURGE FLOW CONTROLLER

This unit is designed for the control of low-volume flows of aggressive chemicals in systems with varying pressures. It maintains constant flow regardless of pressure variations. An integral control valve provides easy setting of flow rate. It is offered in 316 SS construction, for inlet and outlet configurations. It can be assembled to a purge/low-flow meter, or as a standalone in the process line. Controllers are available in standard and high-pressure versions.

## Technical Data

	High Cap.	Medium Cap.	Low Cap.
<b>max. capacity (at STP)</b> gas liquid	117 SCFH 25 GPH	23.4 SCFH 5 GPH	4.5 SCFH 0.8 GPH
<b>maximum temperature and materials of construction</b>	300° F – 316 Stainless Steel with TFE Diaphragm		
<b>max. inlet pressure</b>	350 psi for standard version 5750 1000 psi for high-pressure version 5750		
<b>maximum differential</b>	300 psi between inlet and outlet pressures		
<b>pressure drop (at max. flow rate)</b>	9 psi	6 psi	6 psi
<b>connections inlet/outlet</b>	¼-inch NPT	¼-inch NPT	¼-inch NPT
<b>shipping weight</b>	4 lbs.	4 lbs.	4 lbs.



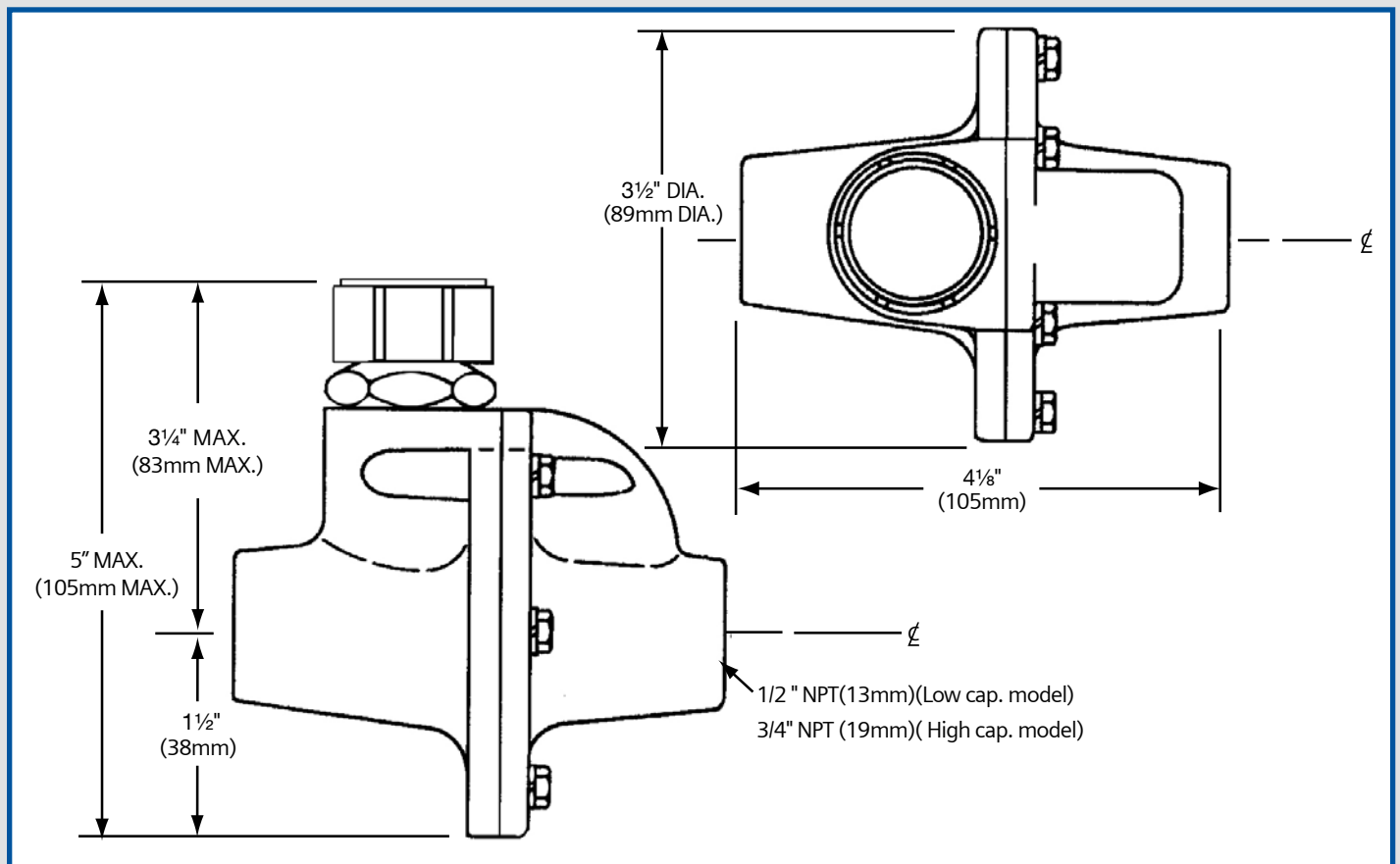
## SERIES 5700 GENERAL PURPOSE

### FLOW CONTROLLER

This unit can be used in any flow system in which the process fluid is compatible with the stainless steel construction. The straight-through design facilitates integration with most flow metering systems. Connections are simple and direct; expensive, awkward static piping is unnecessary. An integral control valve provides easy setting of flow rate. General purpose flow controllers are available in two capacity arrangements and can be used for liquid or gas service.

### Technical Data

	High Cap.	Low Cap.
max. capacity (at STP) gas liquid	53 SCFM 10 GPM	5 SCFM 1 GPM
maximum temperature and materials of construction	450° F – 316 Stainless Steel with TFE Diaphragm	
max. inlet pressure	250 psi	250 psi
pressure drop (at max. flow rate)	25 psi	15 psi
connections inlet/outlet	¾-inch NPT	½-inch NPT
shipping weight	4½ lbs.	4½ lbs.



*The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Wallace & Tiernan, Varea-Meter and Arma-View are trademarks of Siemens, its subsidiaries or affiliates.*

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