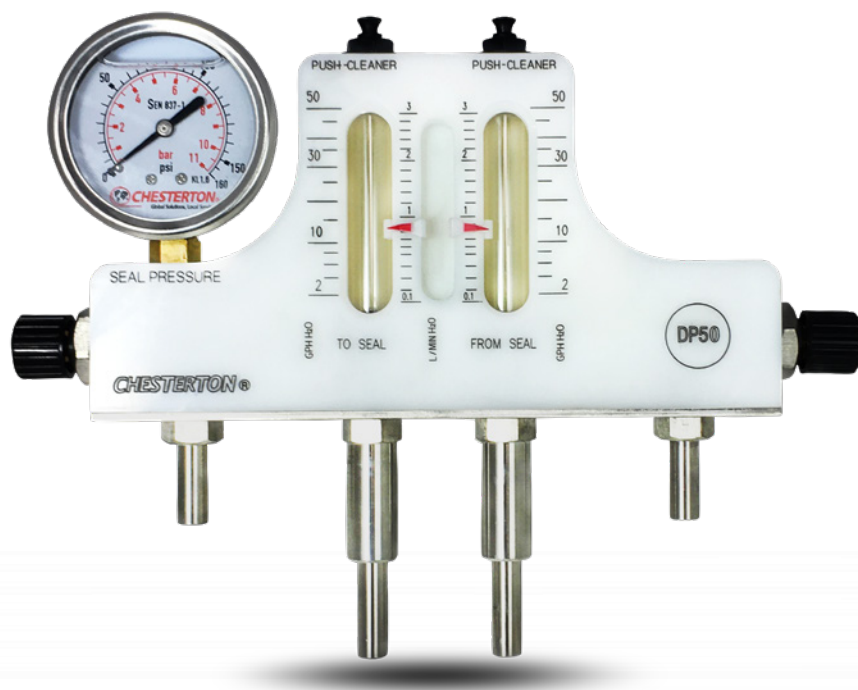


# CHESTERTON® FLOW GUARDIAN™ FLOW METERS

## HELPING TO MEET WATER CONSERVATION GOALS

*Chesterton Flow Guardian flow meters are specifically designed to supply uninterrupted, regulated seal flush water and deliver operational efficiency when used with mechanical seals and packings. Adding Flow Guardian meters can help to reduce costly equipment failures as well as contribute to plant water conservation initiatives.*



Flow Guardian DP50 for double seals

### Features

- Built-in plunger cleaner
- Built-in pressure regulator
- Rugged, compact design
- Reliable operation
- Tamper-proof locking system
- Alarm sensor-ready
- Excellent corrosion resistance
- Rebuild kits available
- Optional barb or compression fittings
- Liquid-filled compound pressure gauge

## Plant Water Conservation

Flow Guardian™ flow meters can assist in your water conservation programs. In today's competitive environment, plants are faced with improving operational efficiency and meeting federal mandates through seal flush water reduction. Seal water flush rates can be reduced from gallons per minute to gallons per hour without adversely affecting seal performance.

## Double Seal Leak Detection

Double seals require reliable and adequate water flow for optimum cooling and lubrication. In most process applications, it is important to detect a seal failure to preserve product quality. The DP double seal version accurately measures water flow in and out of the mechanical seal. The DP and SP versions have a built-in regulating valve that enables the user to simultaneously adjust flush pressure in the mechanical seal, providing reliable seal performance.

# Conservation and Savings

## INCREASE OPERATIONAL EFFICIENCY AND REDUCE FAILURES

### Durable and Easy

The clear flow tubes can be cleaned while in service and without flow interruption. The built-in plunger cleans the tube of contaminants, algae, or water impurities which would otherwise foul the tube walls and impair visibility or restrict flow.

The innovative Flow Guardian flow meter is designed to improve seal reliability. The uniquely shaped flow orifice permits contaminants to pass without blockage.

The standard Flow Guardian flow meter can be fitted with a versatile, inductive proximity flow sensor designed to alarm the user when there is an interruption in water flush flow. It can also be used for high flow indication.



Flow Guardian SP50 with 1810 Single Cartridge Seal

### Design Criteria

Body Material	Polyoxymethylene (POM)
Metering Tube	Polysulfone (PSU)
Metallic Parts	AISI 316, float ASI 329
O-Rings	Fluorocarbon
Max. Pressure	145 psig (10 bar g)
Max. Temperature	100°C (212°F)
Connectors	3/8" compression connection or hose barb connectors
Pressure Gauge	0 -145 psig/0 - 10 barg stainless steel casing, liquid filled
Flow Range	2 - 50 GPH (0,1 - 3 liters/minute)

### Compression Fitting Connectors

ITEM#	DESCRIPTION	APPLICATION
199801	S50 Single Tube	Single Seal/ Packing Sets
199802	SP50 Single Tube with Pressure Valve	Single Seal/Packing Sets
199803	DP50 Dual Tube with Pressure Valve	Double Seal

### Hose Barb Connectors

ITEM#	DESCRIPTION	APPLICATION
199804	S50 Single Tube	Single Seal/ Packing Sets
199805	SP50 Single Tube with Pressure Valve	Single Seal/Packing Sets
199806	DP50 Dual Tube Double Seal with Pressure Valve	

### Accessories

ITEM#	DESCRIPTION	APPLICATION
199809	Operational Flow Sensor	AC/DC
199810	Operational Flow Sensor	DC
199807	Single Tube Repair Kit	S50/SP50
199808	Dual Tube Repair Kit	DP50

Chesterton ISO certificates available on  
[chesterton.com/corporate/iso](http://chesterton.com/corporate/iso)

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