SC423XL Series

Gas Flow Controller

Low Flow, Vacuum Applications, Stainless Steel



Value Proposition:

The SC423XL Series Flow Controller is a unique device which supplies a constant flow with a self correcting action to compensate for changes in downstream pressure. The SC423XL was designed for air and analyzer sampling systems which require very low flow rates (less than 10 scc/m). Connected to a vacuum cylinder, the SC423XL provides consistent flow control despite changes in the vacuum.

Product Features:

- Rugged Design
- Flow Control as low as 1 scc/m
- Adjustable Flows
- Hastelloy® C-22 Diaphragms
- Stable Flows as Vacuum Pressure Changes for 28 in. Hg to 5 in. Hg
- Stable Flows over Wide Temperature Band
- Color Coded Orifices
- Special CFC Free Cleaning
- Tamper Proof
- Oxygen cleaned in accordance with ASTM G93 Level C

Specifications:

Material of Construction		
	Wetted	
Body	316L Stainless Steel	
Piston	316L Stainless Steel	
Diaphragm	Hastelloy® C-22	
Seat	FKM	
Seals	FKM	
Inlet Fitting	316 Stainless Steel	
Outlet Fitting	316 Stainless Steel	
Non-Wetted		
Cap	316 Stainless Steel	
Nut	316 Stainless Steel	
Filter	Sintered Hastelloy®	

Functional Performance		
Leak Rate	Inboard Test Method	
External	1 x 10-6 scc/sec He	
Approximate Weight	1.75 lbs. (0.80 kg)	

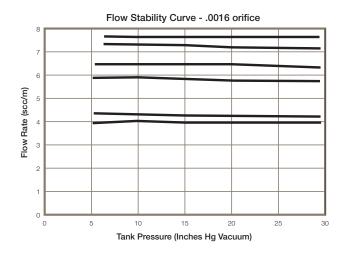
	Operating Conditions
Maximum Inlet	Atmospheric
Outlet	Vacuum
Flow (see Flow Curve)	Low as 1 scc/m
Temperature	-40°F to 200°F (-40°C to 94°C)

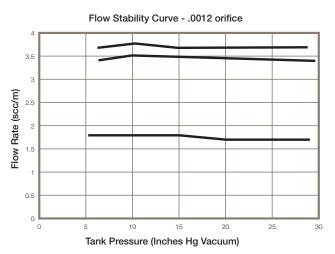
 $\mbox{Hastelloy}^{\mbox{\scriptsize @}}$ C-22 is a registered trademark of Haynes International, Inc.

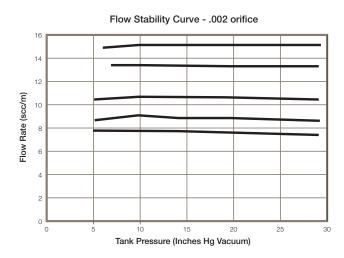
For additional information on materials of construction, functional performance and operating conditions, please contact factory.

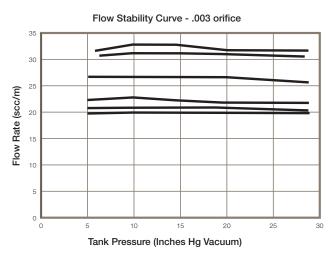
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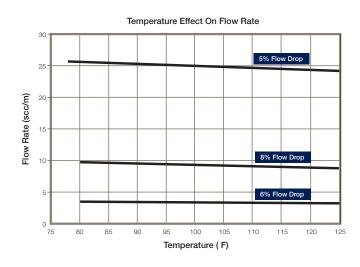
Flow Curves:





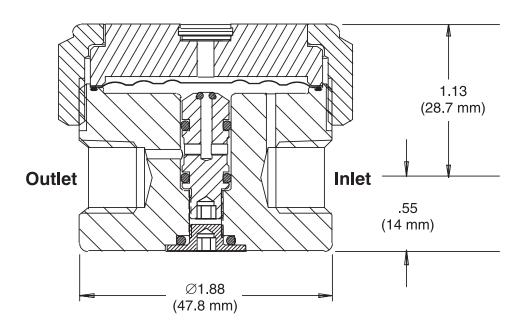






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Dimensional Drawing:



Ordering Information:

Building a Part Number: Example: SC423XLS2444

Example Part Number:	SC423XL	S	24	4	4
Ordering Parameters/Options:	Series	Body Material	Sample Time/Flow Rate	Inlet Connection	Outlet Connection
Table Reference: (see below)	А	В	С	D	Е

A - Series	
SC423XL	Gas Flow Controller

B - Body Material		
	S	316L Stainless Steel

C - Sample Time/Flow Rate	
3	27.1 - 27.7 sccm (yellow)
8	10.0 - 10.4 sccm (green)
12	6.5 - 6.9 sccm (blue)
24	3.1 - 3.4 sccm (red)

D - Inlet Connection	
4	1/4" NPT Female (All Gauge Ports are 1/4" NPT Female)

E - Outlet Connection		Connection
	X	No Connections
	4	1/4" NPT Female (All Gauge Ports are 1/4" NPT Female)