

The Kytola® Constant Flow Regulator Model 3631 is designed to provide a constant flow of liquids in applications where supply or back pressure varies. It also provides a constant flow of gases in applications where back pressure varies.



Model 3631 equipped with model L flow meter

- For liquid and gas
- High performance
- Reliable operation
- Easy maintenance
- Flow rate up to
24 USGPH H₂O
2.3 SCFM air

ISO 9001 ISO 14001

CONSTANT FLOW REGULATOR WITH ALARM 3631

The model 3631 is a membrane type differential pressure controller with alarm function. It is supplied with variable area flow meter model L for indicating and setting the flow rate.

FEATURES

- Adjustable alarm flow rate
- Aluminium or stainless steel construction
- Vertical installation
- Competitively priced

TYPICAL APPLICATIONS

- Water purging for instruments
- Air purging in level measurements
- Gas purging in Δp measurements

OPTIONS

- Thread adapters

Model 3631

Max. flow	24 USGPH H ₂ O, 2.3 SCFM at 87 psig air 1.5 L/min H ₂ O, 60 NL/min at 6 bar(g) air	Weight	1.3 lbs (0.6 kg) aluminium body 2.6 lbs (1.2 kg) AISI 316 body
Max. pressure difference	145 psi (10 bar)	Membrane plate	Nylon (PA 6) (*PVDF)
Max. static pressure	290 psi (20 bar)	Membrane	EPDM
Min. pressure difference	29 psi (2 bar)	Mesh	PTFE
Max. temperature	167°F (75°C) / *176°F (80°C)	Seals	Nitrile (*Viton®, EPDM)
Body	Aluminium or stainless steel AISI 316	Alarm sensor	NAMUR or PNP/NPN (2-wire)
Spring	Stainless steel AISI 316	Connections	NPT 1/4" or G 1/4"

*) Special construction on request

3631

Regulator Body

Aluminium (not for H₂O) A
AISI 316 H

Connections

NPT 1/4" N
G 1/4" R

Flow Tube

Acrylic A
Grilamid TR55 G
Trogamid-T T

Flow Range H₂O Flow Range Air*

USGPH	L/min	SCFH	NL/min	
0.2 – 1.3	15 – 80**	(1.5 – 6)*	(0.5 – 2.5)*	4C
0.2 – 2.0	0.01 – 0.13	(1 – 14)*	(0.5 – 6)*	5K
0.2 – 3.6	0.01 – 0.2	(1 – 16)*	(0.5 – 7)*	5A
0.5 – 5.5	0.025 – 0.325	(2 – 24)*	(1 – 10)*	5B
1 – 8.5	0.05 – 0.5	(4 – 32)*	(2 – 14)*	5C
2 – 12	0.1 – 0.75	(7.5 – 45)*	(3 – 20)*	8T
2 – 17	0.1 – 1	(10 – 70)*	(5 – 30)*	8M
4 – 26	0.2 – 1.6	(20 – 120)*	(10 – 50)*	8P

**mL/min

Factory assigned model number for special range XX

Scale

H₂O L/min (20°C) A

H₂O USGPH (70°F) N

Relative scale 1–10 D

Factory assigned model number for special scale XX

Alarm Range

H ₂ O USGPH	H ₂ O L/min	Air SCFH	Air NL/min	
0 – 0.08...5.5	0 – 0.005...0.35	(0 – 0.5...23)*	(0 – 0.2...10)*	A
0 – 0.5...8	0 – 0.03...0.5	(0 – 3.4...39)*	(0 – 1.5...17)*	B

Sensors

Without sensor D

PNP/NPN (2-wire) 10 – 55 VDC F

NAMUR N

Special Features

Hand knob in valve H

Viton seals V

***Example air ranges at 70°F / 14.7 psia (20°C / 1.013 bar (abs)) for calibration purpose only.**

NOTE: When ordering special regulators (range or scale or both), process conditions must be mentioned as shown in the special product code example below.

NOTE: The gas scale always has to be calibrated according to the actual medium, inlet pressure, and temperature. Δp over the regulator must be ≥ 29 psi (2 bar).

PRODUCT CODE EXAMPLES

Standard product code

3631HRT8TAANHV

Special product code

3631ANAXXXXAFH

Medium

CO₂

Max flow rate

13 NL/min

Min flow rate

1 NL/min

Inlet pressure

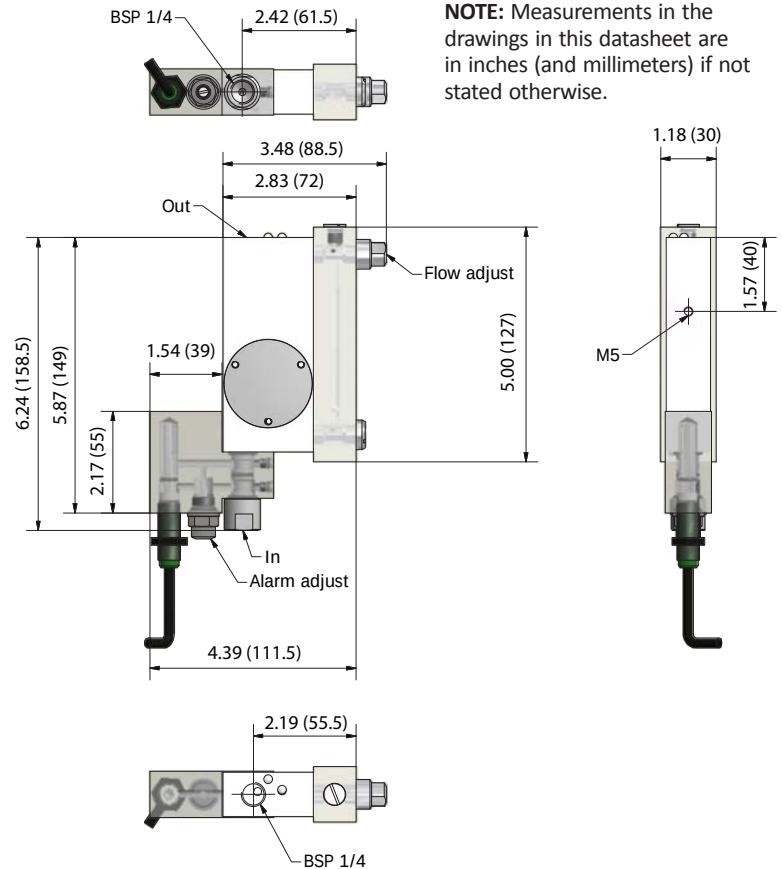
5 bar(g)

Operating temperature

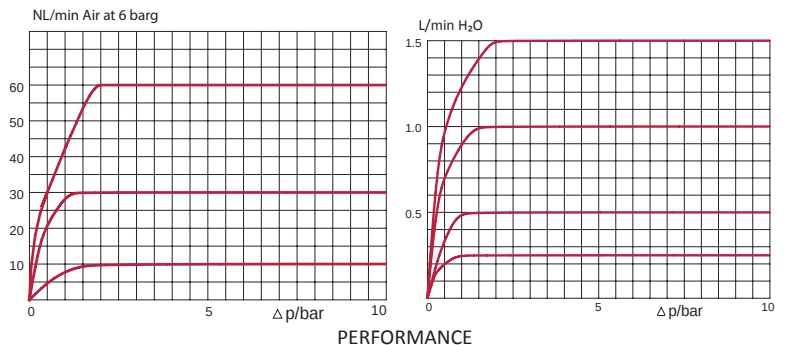
+20°C

Alarm flow rate

0 – 1...10 NL/min
(adjustable 1...10 NL/min,
always activated 0 – 1 NL/min)



NOTE: Measurements in the drawings in this datasheet are in inches (and millimeters) if not stated otherwise.



PERFORMANCE

Kytola
INSTRUMENTS

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