

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 H ₂ O)	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
0.2 – 2.0	0.01 – 0.13	1 – 14	0.5 – 6
0.2 – 3.6	0.01 – 0.2	1 – 16	0.5 – 7
0.5 – 5.5	0.025 – 0.325	2 – 24	1 – 10
1 – 8.5	0.05 – 0.5	4 – 32	2 – 14
2 – 12	0.1 – 0.75	7.5 – 45	3 – 20
2 – 17	0.1 – 1	10 – 70	5 – 30
4 – 26	0.2 – 1.6	20 – 120	10 – 50
	**mL/min		
Factory assigned model number for special range		XX	
Scale			
H ₂ O L/min (20°C)		A	
H ₂ O 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*
0 – 0.5...8	0 – 0.03...0.5	0 – 3.4...39*	0 – 1.5...17*
			A
			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

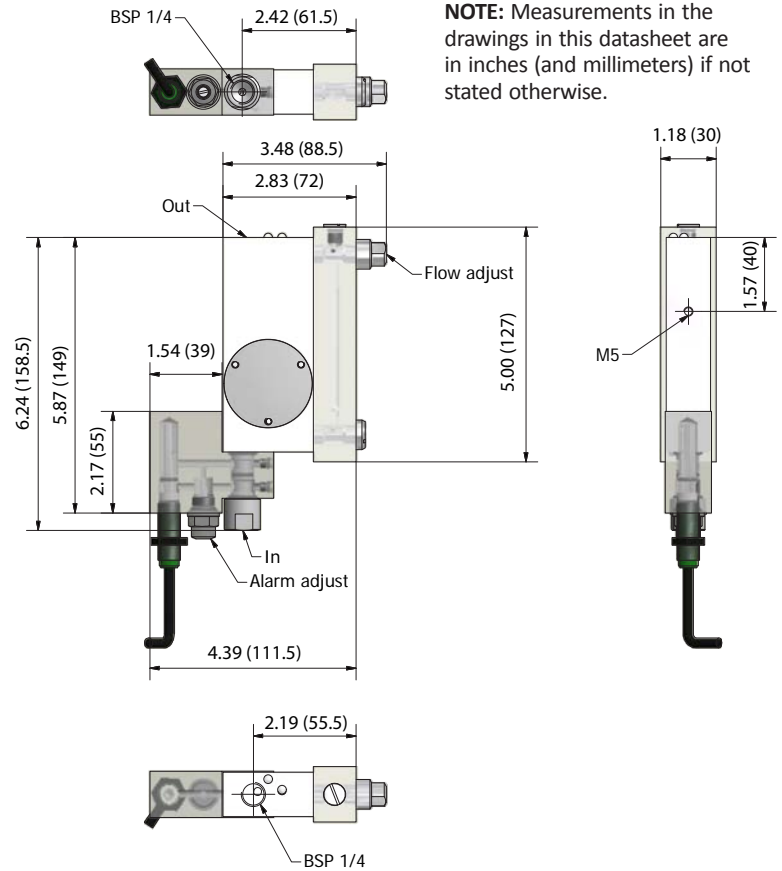
*Example air ranges at 70°F / 14.7 psia (20°C / 1.013 bar (abs)) for calibration purpose only.

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

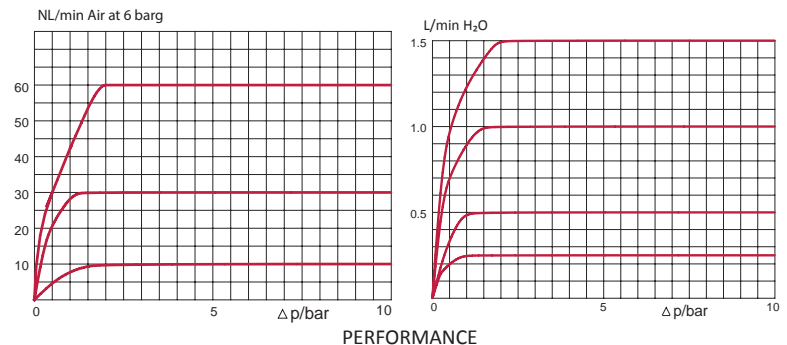
NOTE: The gas scale always has to be calibrated according to the actual medium, inlet pressure, and temperature. Δp over the regulator must be ≥ 29 psi (2 bar).

PRODUCT CODE EXAMPLES

Standard product code	3631HRT8TAANHV
Special product code	3631ANAXXXXAFH
Medium	CO ₂
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