

# EcoReg®



## In-line pre-set regulator for drinking water and other fluids



WRAS  
APPROVED  
PRODUCT

FDA



Made of the certified material Grivory® GV-5 FWA which is ideal for application areas such as drinking water, food industry, medical industry, etc. Conforms to the DIN 50930-6 / FDA/EU drinking water directives and other regulations.

The use of lead-free materials is growing in importance in particular as an alternative material for drinking water applications, where health standards are high. As an alternative material to conventional brass or lead-free brass TRI-MATIC offers the EcoReg® pre-set fluid regulator made of the synthetic material Grivory®.

Drinking water is considered the most vital element for life next to air / oxygen. Since there is no alternative to this finite resource, protecting and securing the standard and quality of drinking water is a top priority for engineers, planners and Technicians as well as system operators.

The EU drinking water directive plays an important role here. Its 2013 amendment does lower the lead Concentration limit from the current level of 25 microgram per litre of drinking water to 10 microgram.

Free of toxic additives, Grivory® is conform to the requirements specified in DIN 50930- 6. This makes it particularly suitable for critical applications.

These are good reasons to choose EcoReg® fluid regulators that meet health and safety requirements and in areas that are constantly subject to corrosion risk.



### Product Benefits:

- Factory pressure presetting
- Reduces consumption
- Reliability
- Service free - no adjustment needed
- Competitively priced
- Tamper proof
- Lightweight – compact construction
- Easy to mount in any water supply system
- Extension by sprinkler equipment
- In compliance with FDA

The pre-set EcoReg® fluid regulator is an independent diaphragm pressure regulator that can be installed in all fluid systems. The pressure regulator ensures a constant and precise output pressure independent from the input pressure. The pressure value has been factory preset and cannot be changed. This ensures that no one can manipulate the specified pressure value.

It is generally known that the pressure of fluid lines is usually too high, fluctuates or varies according to building height. In such cases, the In-Line EcoReg® fluid regulator protects all downstream installations, devices and components, because only the proper pressure is admitted. This is particularly important for all machines and plants dosing fluids because costly stops in production can be avoided.

If the EcoReg® fluid regulator is also combined with a sprinkler nozzle, optimal conditions are created for cooling and cleaning applications with sprayed water or sprayed mists.

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## Technical Data and Ordering Information

### Installation:

Fluid regulator made of Grivory® GV-5 FWA ideal for critical application areas such as drinking water, food industry, medical industry, etc. Conforms to the DIN 50930-6/FDA/EU drinking water directives and other regulations. The regulator ensures that a constant pressure is always maintained, despite the normal pressure fluctuations in a system. To avoid unnecessary loss of pressure in long pipes or hoses, the regulator has to be mounted as close as possible to the point of consumption.

**Medium:** Water and other fluids

Thread Connection	Outlet Pressure		Tolerances* (at 10 ltrs. Min)	Flow water milli litres/Min At 10 bar/145 psig milli litres/Min. $\Delta p$ 0.8 bar / 11.5 psig	Flow gases Ltrs./min - scfm	Dimensions (mm)		Weight Gram	Maximum Inlet Pressure	Temperature Range	Material	Order Code							
						A	Across Flat					BSP	NPT						
BSP/NPT	bar	psig	1/4 BSP FluidReg female-female																
1/4	1.0 bar	15 psig	+/- 0.3 bar / 4.35 psig	3000	400 / 14.2	52	17	125	Water: 10 bar / 145 psig Other Gases 18 bar / 260 psig	Water: 4 °C to 60°C (39°F to 140°F) Other Gases: 0 °C to 60°C (32°F to 140°F)	Housing: Grivory® Spindle: DIN 1.4404 / AISI 316L Diaphragm: Nitril / FPM Spring: DIN 1.4310 / AISI 301 Valve Seat: PPH	239K0210	239KS1215						
1/4	1.5 bar	23 psig	+/- 0.3 bar / 4.35 psig	3500	400 / 14.2							239K0215	239KS1223						
1/4	2.0 bar	30 psig	+/- 0.3 bar / 4.35 psig	4000	600 / 21.3							239K0220	239KS1230						
1/4	2.5 bar	35 psig	+/- 0.3 bar / 4.35 psig	4000	600 / 21.3							239K0225	239KS1235						
1/4	3.0 bar	45 psig	+/- 0.3 bar / 4.35 psig	4000	700 / 24.7							239K0230	239KS1245						
1/4	3.5 bar	50 psig	+/- 10%	4000	700 / 24.7							239K0235	239KS1250						
1/4	4.0 bar	60 psig	+/- 10%	4000	700 / 24.7							239K0240	239KS1260						
1/4	4.5 bar	65 psig	+/- 10%	4000	700 / 24.7							239K0245	239KS1265						
1/4	5.0 bar	75 psig	+/- 10%	4000	700 / 24.7							239K0250	239KS1275						
1/4	5.5 bar	80 psig	+/- 10%	4000	700 / 24.7							239K0255	239KS1280						
1/4	6.0 bar	90 psig	+/- 10%	4000	800 / 28.3							239K0260	239KS1290						
1/4	6.5 bar	95 psig	+/- 10%	4000	800 / 28.3							239K0265	239KS1295						
1/4	7.0 bar	100 psig	+/- 10%	4000	800 / 28.3							239K0270	239KS12100						
1/4	8.0 bar	120 psig	+/- 10%	4000	800 / 28.3							239K0280	239KS12120						
On request:	Other pre-set pressures																		

### Tolerances\*

Test medium: Air, Pe = 6 bar/90 psig (at Pa ≤ 4 bar/60 psig), 10 NI/Min / 0,35 scfm

Test medium: Air, Pe = 10 bar/150 psig (at Pa ≥ 4 bar/60 psig), 10 NI/Min / 0,35 scfm

