EcoReg®

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





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 is 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 critcal 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	Flow gases Ltrs./min - scfm	Dimensions (mm)		Weight Gram	Maximum Inlet Pressure	*Temperature Range*	*Material*	*Order Code*	
				At 10 bar/145 psig milli litres/Min. **Δp:0,8 bar / 11.5 psig**		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												

Toleranzes*

Test medium: Air, Pe = 6 bar/90 psig (at Pa <= 4 bar/60 psig), 10 Nl/Min / 0,35 scfm
Test medium: Air, Pe = 10 bar/150 psig (at Pa >= 4 bar/60 psig), 10 Nl/Min / 0,35 scfm