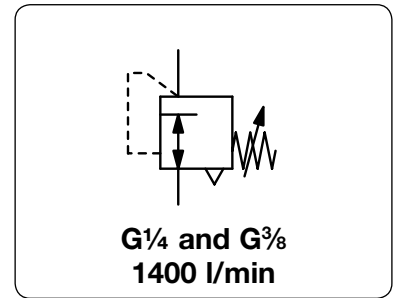


# Precision Pressure Regulator without Constant Bleed

R101

<b>Description</b>	Regulator provides precision regulation in high flow and high relief applications. A sensitive rolling diaphragm and balanced inner valve assure constant outlet pressure even with changing supply pressure and flow fluctuations.		
<b>Media</b>	compressed air or non-corrosive gases		
<b>Supply pressure</b>	max. 18 bar		
<b>Accuracy</b>	at supply pressure variation of 7 bar: < 7 mbar pressure deviation response sensitivity: < 2 mbar		
<b>Air consumption</b>	without constant bleed		
<b>Adjustment</b>	by handwheel with locknut		
<b>Relieving function</b>	relieving		
<b>Relief capacity</b>	200 l/min at 1.5 bar outlet and 0.35 bar overpressure above setpoint		
<b>Gauge port</b>	G $\frac{1}{4}$ on both sides of the body, screw plugs supplied		<b>Mounting position</b> any
<b>Temperature range</b>	0 °C to 80 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F		
<b>Material</b>	Body: zinc die-cast	Inner valve: aluminium, brass and neoprene	Elastomer: NBR/Buna-N



Dimensions			K <sub>v</sub> value (m <sup>3</sup> /h)	Flow rate		Connection thread G	Pressure range bar	Order number
A mm	B mm	C mm		m <sup>3</sup> /h*1	l/min*1			

Precision pressure regulator						supply pressure max. 18 bar, relieving, without constant bleed	R101	
54	129	25	0.73	78	1300	G $\frac{1}{4}$	0.03 ... 0.7	R101-021
							0.03 ... 2.0	R101-02A
							0.07 ... 4.0	R101-02B
							0.14 ... 10.0	R101-02C
54	129	25	0.78	84	1400	G $\frac{3}{8}$	0.03 ... 0.7	R101-031
							0.03 ... 2.0	R101-03A
							0.07 ... 4.0	R101-03B
							0.14 ... 10.0	R101-03C



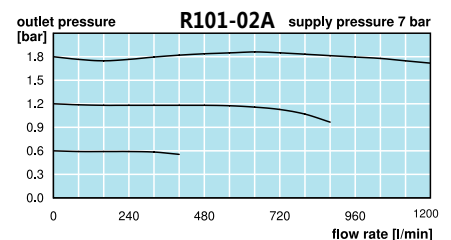
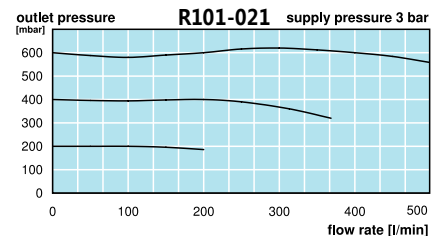
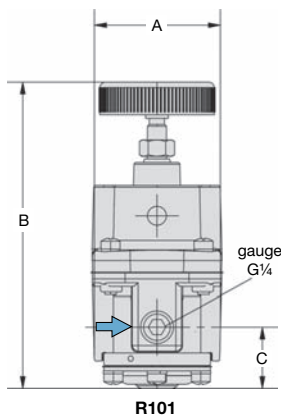
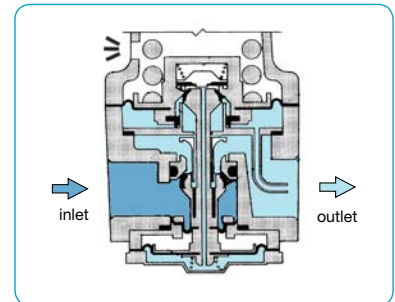
R101

## Special options, add the appropriate letter

<b>NPT</b>	connection thread	R101-0..N
<b>tamper-proof cap</b>	of aluminium, adjustment by screwdriver, total height 139 mm	R101-0..T

## Accessories, enclosed

<b>pressure gauge</b>	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	MA5002-..*2
<b>mounting bracket</b>	made of steel	BW20-04



\*1 at 7 bar supply pressure and 1.4 bar outlet pressure  
\*2 01 = 0...1 bar, 02 = 0...2.5 bar, 04 = 0...4 bar, 10 = 0...10 bar



**Order example:**  
**R101-021**  
China website: [www.duray-control.cn](http://www.duray-control.cn)