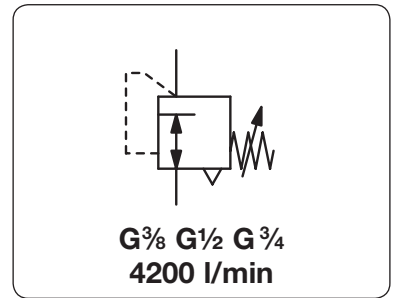


# Precision Pressure Regulator without Constant Bleed

R401

<b>Description</b>	The diaphragm regulator provides high-precision regulation in high flow and high relief applications. A sensitive rolling diaphragm and balanced inner valve ensure 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>	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>	1000 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>Temperature range</b>	0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F	
<b>Material</b>	Body: aluminium die-cast	Elastomer: NBR/Buna-N
	Inner valve: stainless steel, brass, aluminium and cadmium-plated steel	

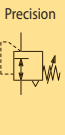


Dimensions			K <sub>v</sub> value (m <sup>3</sup> /h)	Flow rate		Connection thread G	Pressure range bar	Order number
A	B	C		m <sup>3</sup> /h*1	l/min*1			

Precision pressure regulator							supply pressure max. 18 bar, relieving, without constant bleed	R401
89	206	39	2.12	228	3800	G $\frac{3}{8}$	0.03 ... 0.7	R401-031
							0.03 ... 2.0	R401-03A
							0.07 ... 4.0	R401-03B
							0.14 ... 10.0	R401-03C
							0.14 ... 17.0	R401-03D
89	206	39	2.23	240	4000	G $\frac{1}{2}$	0.03 ... 0.7	R401-041
							0.03 ... 2.0	R401-04A
							0.07 ... 4.0	R401-04B
							0.14 ... 10.0	R401-04C
							0.14 ... 17.0	R401-04D
89	206	39	2.34	252	4200	G $\frac{3}{4}$	0.03 ... 0.7	R401-061
							0.03 ... 2.0	R401-06A
							0.07 ... 4.0	R401-06B
							0.14 ... 10.0	R401-06C
							0.14 ... 17.0	R401-06D

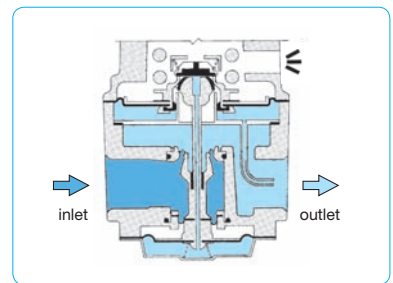


R401



## Special options, add the appropriate letter

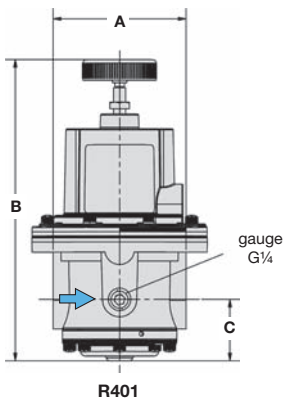
<b>tapped exhaust</b>	connection thread G $\frac{1}{4}$	R401-0..X12
<b>NPT</b>	connection thread	R401-0..N
<b>tamper-proof cap</b>	of aluminium, adjustment by screwdriver, total height 295 mm	R401-0..T
<b>FKM elastomer</b>	up to 10 bar	R401-0..V



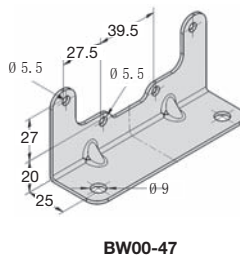
cross section

## Accessories, enclosed

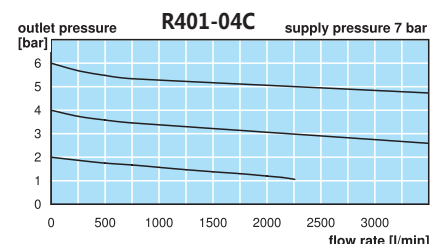
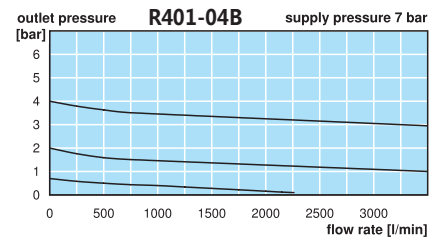
<b>pressure gauge</b>	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	MA6302-..*2
<b>mounting bracket</b>	made of steel	BW00-47



R401



BW00-47



\*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, 25 = 0...25 bar



**Order example:**  
R401-041  
China website: www.duray-control.cn