

# Series PR precision regulators with manual override

New 

Ports: G1/4



- » High precision
- » Triple diaphragm construction
- » Compact dimensions
- » Adjustment lock
- » Removable adjustment knob
- » Three ranges of pressure

Series PR precision pressure regulators work on a three diaphragms force-balance principle which allows them to react even to the smallest changes in pressure that can occur during operation.

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TREATMENT

## GENERAL DATA

<b>Construction</b>	compact, diaphragm type
<b>Materials</b>	see the following page
<b>Ports</b>	G1/4
<b>Mounting</b>	vertical in-line, wall or panel mounting (in any position)
<b>Working temperature</b>	from 0°C to 50°C
<b>Inlet pressure</b>	0.1 ÷ 9 bar
<b>Outlet pressure</b>	0.05 ÷ 2 bar 0.05 ÷ 4 bar 0.05 ÷ 7 bar (standard)
<b>Overpressure exhaust</b>	with relieving (standard)
<b>Nominal flow</b>	see flow diagrams (following pages)
<b>Media</b>	filtered and not lubricated compressed air according to DIN ISO 8573-1 Classes 1-3-2
<b>Hysteresis</b>	20mbar
<b>Repeatability</b>	±0.2% FS
<b>Bleed air consumption</b>	≤ 5 l/min

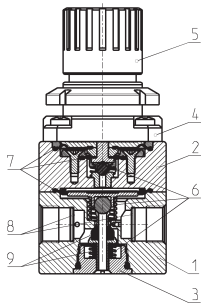
**CODING EXAMPLE**

<b>PR</b>	<b>1</b>	<b>04</b>	<b>-</b>	<b>M</b>	<b>07</b>
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<b>PR</b>	SERIES
<b>1</b>	SIZE: 1 = Size 1
<b>04</b>	PORTS: 04 = G1/4
<b>M</b>	TYPE OF ADJUSTMENT: M = manual
<b>07</b>	OPERATING PRESSURE (1 bar = 14,5 psi): 02 = 0.05 + 2 bar 04 = 0.05 + 4 bar 07 = 0.05 + 7 bar (standard)

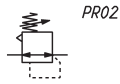
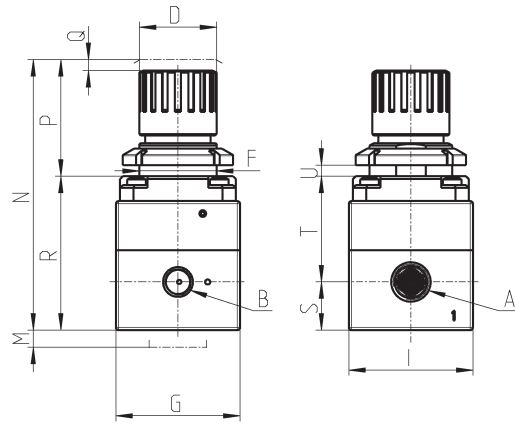
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TREATMENT

**Series PR precision regulators - materials**


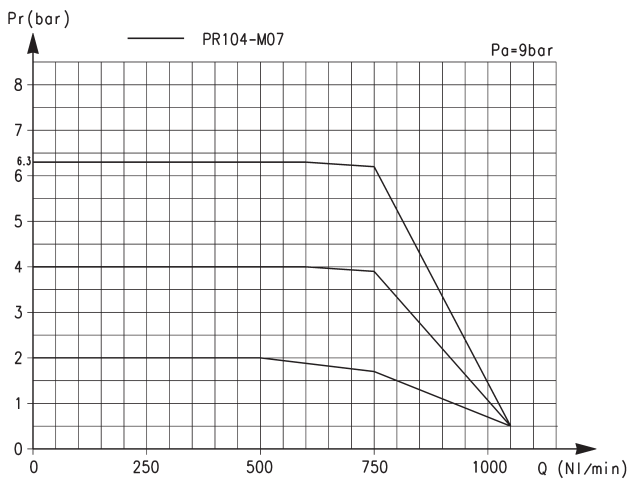
PARTS	MATERIALS
<b>1 = Body</b>	Anodized aluminium
<b>2 = Intermediate body</b>	Aluminium
<b>3 = Valve holder plug</b>	Brass
<b>4 = Bell</b>	Polyamide
<b>5 = Regulator knob</b>	Polyamide
<b>6 = Springs</b>	Stainless steel
<b>7 = Diaphragms</b>	NBR
<b>8 = Filters</b>	Stainless steel
<b>9 = Seals</b>	NBR
<b>O-ring</b>	NBR

Series PR precision regulators - dimensions

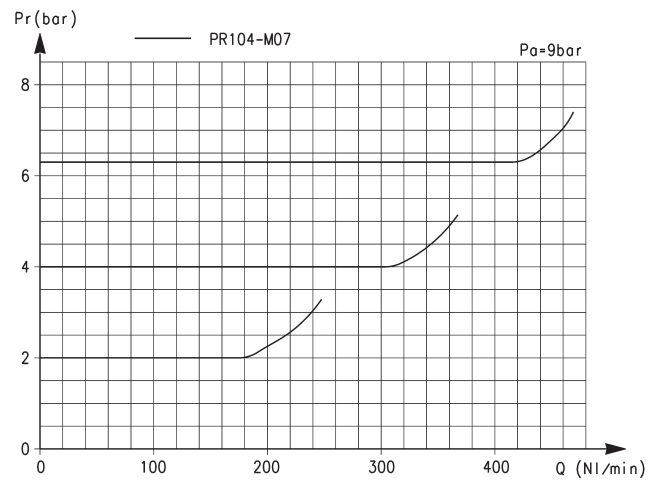


DIMENSIONS																
Mod.	A	B	D	F	G	I	M	N	P	Q	R	S	T	U	Weight (Kg)	
<b>PR104-M07</b>	G1/4	G1/8	28	30	45	45	25	96	40	2	56	17.5	38.5	0-6	0.35	

Mod. PR104-M07 FLOW DIAGRAMS (STANDARD VERSION)

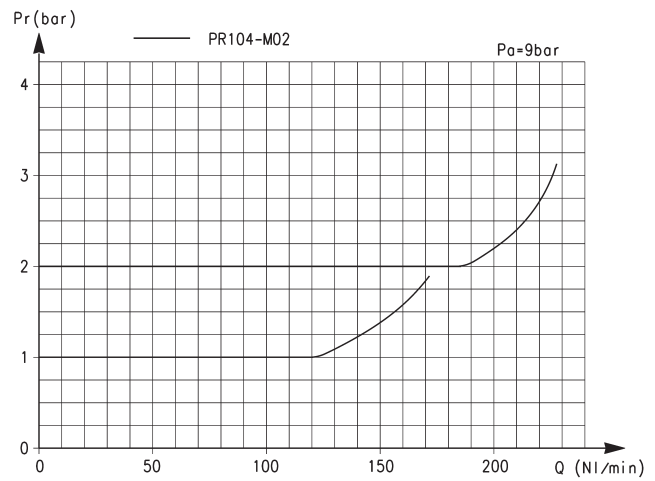
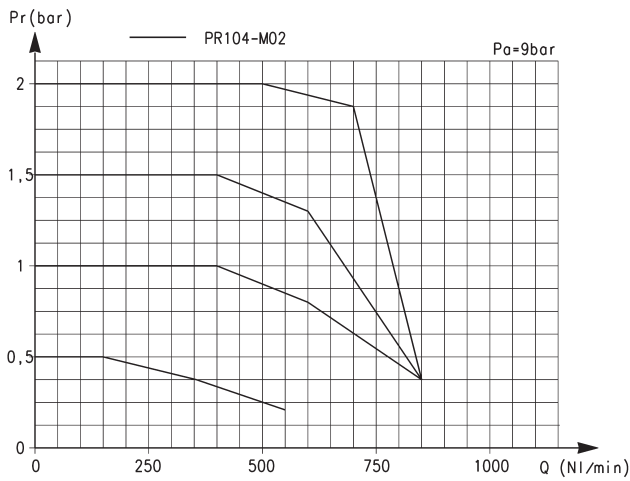


Pr = Regulated pressure  
 Q = Flow  
 Pa = Inlet pressure



EXHAUST FLOW DIAGRAM  
 Pr = Regulated pressure  
 Q = Flow  
 Pa = Inlet pressure

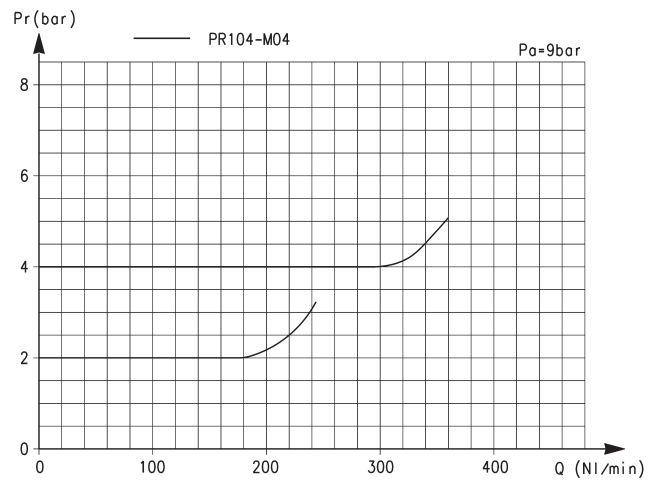
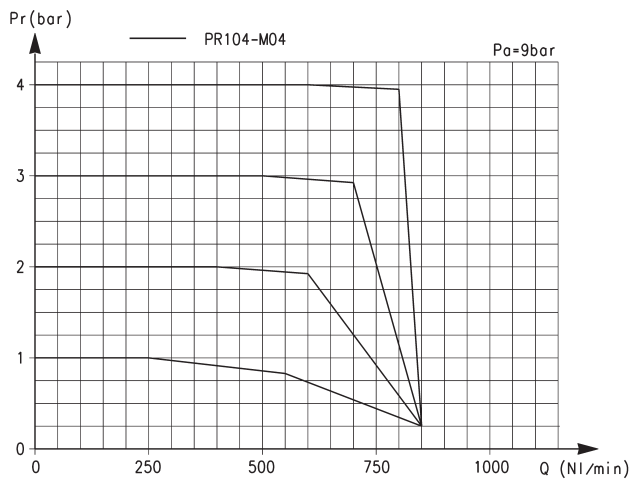
Mod. PR104-M02 FLOW DIAGRAMS



Pr = Regulated pressure  
Q = Flow  
Pa = Inlet pressure

EXHAUST FLOW DIAGRAM  
Pr = Regulated pressure  
Q = Flow  
Pa = Inlet pressure

Mod. PR104-M04 FLOW DIAGRAMS



Pr = Regulated pressure  
Q = Flow  
Pa = Inlet pressure

EXHAUST FLOW DIAGRAM  
Pr = Regulated pressure  
Q = Flow  
Pa = Inlet pressure