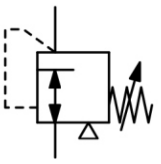
R251 - Régulateur de pression négative, de précision, pour air et gaz non corrosifs, sans consommation

Description	Diaphragm vacuum regulator ensuring high precision in both vacuum and positive pressure range.
Media	compressed air or non-corrosive gases
Supply pressure	max. 17 bar
Accuracy	response sensitivity: < 2.5 mbar
Adjustment	by handwheel with locknut
Air consumption	without constant bleed
Flow rate	800 l/min*1 in vacuum range, 4200 l/min*2 in positive pressure range
Gauge port	¼"NPT on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	-40 °C to 90 °C / -40 °F to 194 °F
Material	Body: aluminium die-cast Inner valve: stainless steel and brass Elastomer: NBR/Buna-N



G½ and G¾
vacuum ... 0.7/10 bar

Dimensions A mm	B mm	C mm	D mm	K_v value m^3/h	Flow rate m^3/h*1	l/min*1	Connection thread G	Vacuum range bar	Order number
Vacuum pressure regulator							supply pressure max. 17 bar, without constant bleed		**R251**
87	238	40	98	2.5	48	800	G½	-1 ... +0.7	**R251-04A**
								-1 ... +2.0	**R251-04B**
								-1 ... + 10	**R251-04D**
87	238	40	98	2.5	48	800	G¾	-1 ... +0.7	**R251-06A**
								-1 ... +2.0	**R251-06B**
								-1 ... + 10	**R251-06D**

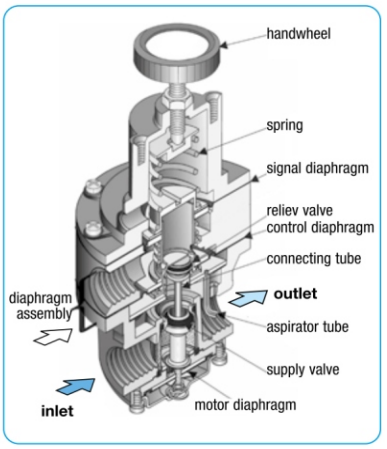
R251

Special options, add the appropriate letter

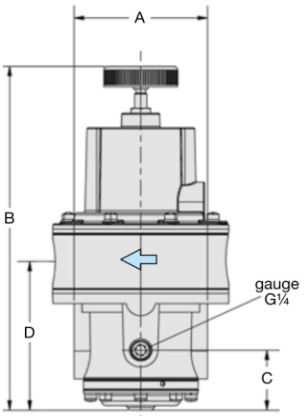
NPT	connection thread	R251-0 . . **N**
tamper-proof cap	made of aluminium, adjustment by screwdriver, total height 240 mm	R251-0 . . **T**
FKM elastomer		R251-0 . . **V**

Accessories, enclosed

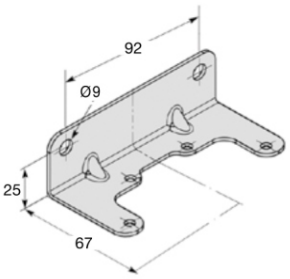
pressure gauge	Ø 63 mm, -1 ... 0 bar, G¼	**MA6302-00**
gauge connector	made of brass, adapter ¼"NPT-G¼ female	**AM-06**
mounting bracket	made of steel	**BW00-47**



cross section
connection for downstream regulation

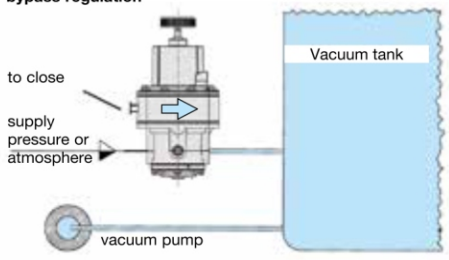


R251

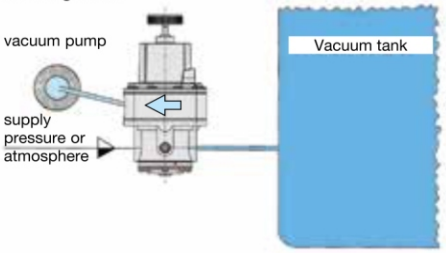


BW00-47

1 **bypass regulation**



2 **downstream regulation**



Note
A strainer is provided on the pressure side or atmospheric, an additional filter is recommended.

1 **Bypass regulation**
Upstream installation is preferred when rapid exhaust of a tank or system is required. That way the vacuum pump acts directly upon the tank and is not being throttled by the vacuum regulator.

2 **Downstream installation** is prefered when rapid exhaust of a tank or system or over-pressure filling is required. The inlet pressure connection can optionally be left open to atmosphere.

*1 for compressed air at -0.98 bar supply pressure and 0 bar outlet pressure
*2 for compressed air at 7 bar supply pressure and 1.4 bar outlet pressure

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