# VACUUM PRESSURE REGULATOR -

	DESCRIPTION	PRESSURE RANGE	CONNECTION	SERIES	PAGE		
		bar					
MINIATURE	max. 22 l/min	-850 0 mbar	1%″NPT	V800	7.02		
	max. 22 l/min	-850 0 mbar	10-32" and flange	V900	7.02		
	max. 50 l/min	-1 0.01 bar	<sup>1</sup> ⁄4″NPT	V480	7.03		
PRECISE	max. 70 l/min	-1 +0.14 / 10 bar	G1⁄4	R250	7.04		
	max. 330 l/min	-990 0 mbar	G¼ - G½	V170	7.05		
	max. 800 l/min	-1 +0.7 / 10 bar	G½ u. G¾	R251	7.06		
	vacuum adjustment valve	-10.3	G1⁄8 - G1	V04	7.07		
	vacuum adjustment valve	-1 0 bar	G¼ u. G1	V05	7.07		
ELECTRICAL	control valves	-1 0 / +1 bar	G1⁄8	PQ	10.03		
	proportional magnet	-1 0 / +1 bar	G1⁄8 - G1	PR	10.08		
	piezo-operated	-1 1 /+10 bar	G1⁄8 u. G1⁄4	PRE	10.14		
	digital control	-1 0	G1⁄8 - G1	PP	10.16		
	digital control	-1 0	u/8 - ui		10		

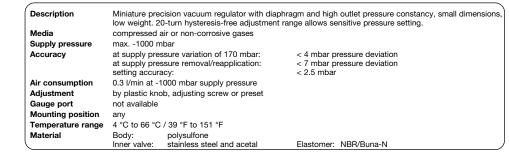


7

Vacuum

# **MINIATURE VACUUM PRESSURE REGULATOR, MADE OF PLASTIC**

#### V800/V900





10-32" or flangeable 0...-350/-850 mbar



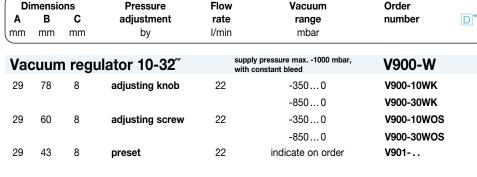
V800-..WK

V900-..WK



V900-..WOS

V901-..



Vac	uum	n reg	lator with flange		supply pressure max1000 mbar, vith constant bleed	V900-M
29	78	8	adjusting knob	22	-3500	V900-10MWK
					-8500	V900-30MWK
29	60	8	adjusting screw	22	-3500	V900-10MWOS
					-8500	V900-30MWOS
29	43	8	preset	22	indicate on order	V901M

Special options, add the appropriate letter or number 1%″ NPT connection thread, width 40 mm

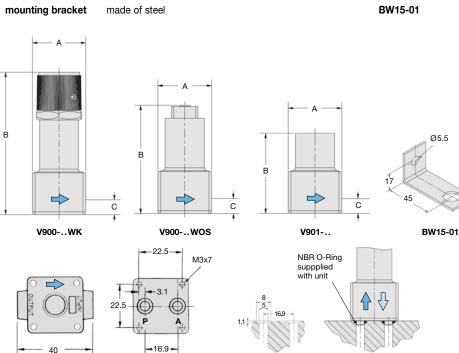


V8..-...

**B**\*



Vacuum



V900-..M

V900-.. M

PDF

CAD www.aircom.net

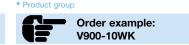
V900-..M

vacuum tank

vacuum connection

regulator

vacuum pump



40 V800-....



# PRECISION VACUUM PRESSURE REGULATOR 70 L/MIN

Vacuum

range

bar

-1 ... +0.14

-1 ... +0.7

-1 ... +2.0

-1 ... +7.0 -1 ... + 10

supply pressure max. 17 bar,

with constant bleed

Order

number

R250

R250-020

R250-02A

R250-02B R250-02C

R250-02D

R250-0..N

**D**\*

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 mbar						
Adjustment	by handwheel with locknut						
Air consumption	max. 2.8 l/min in positive pressure range						
Flow rate	70 l/min*1 in vacuum range, 900 l/min*2 in positive pressure range						
Gauge port	G¼ 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 bras Elastomer: NBR/Buna-N						

Connection

thread

G

G1⁄4

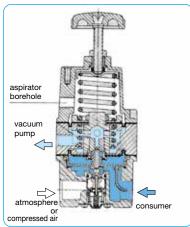
made of aluminium, adjustment by screwdriver, total height 189 mm R250-0. . . T

G <sup>1</sup> /4 vacuum 0.14 / 10 bar

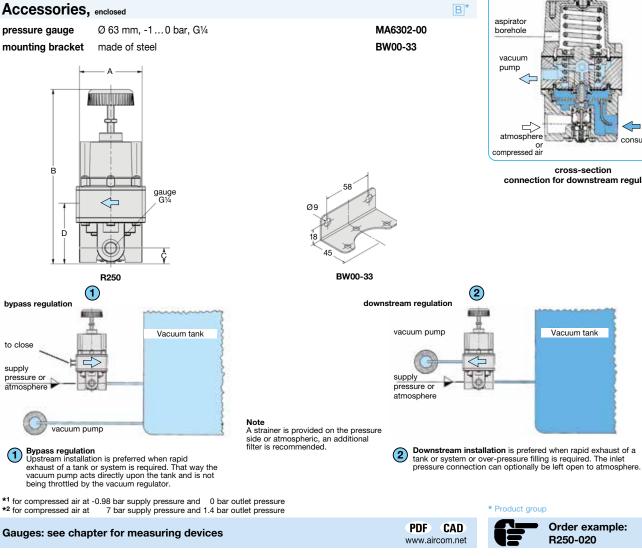
R250



R250



connection for downstream regulation



Dimensions

С

mm

20

D

mm

Vacuum pressure regulator

65

Special options, add the appropriate letter

В

mm

184

tamper-proof cap

Α

mm

68

NPT

K٧

value

m³/h

0.78

connection thread

Flow

rate

4

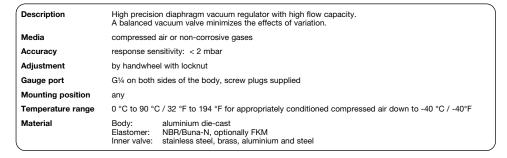
m<sup>3</sup>/h\*1 l/min\*1

70

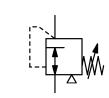


**7**.04

# PRECISION VACUUM PRESSURE REGULATOR 330 L/MIN



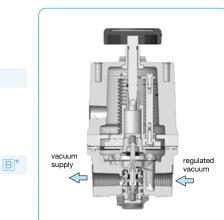
der nber	Pressure range mbar	Connection thread G	e	Flo rat m³/h*1	K₀- value (m³/h)	ons C mm	mensio B mm	Di A mm
170		supply pressure max. without constant blee		ulator	uum reg	n vac	cisio	Pre
70-02A 70-02B 70-02C	-170 0 -500 0 -990 0	G1⁄4	330	20	1.1	25	152	67
70-03A 70-03B 70-03C	-170 0 -500 0 -990 0	G¾	330	20	1.1	25	152	67
70-04A 70-04B 70-04C	-170 0 -500 0 -990 0	G½	330	20	1.1	25	152	67



G¼ up to G½ -170 / -500 / -990 ... 0 mbar



V170



cross-section

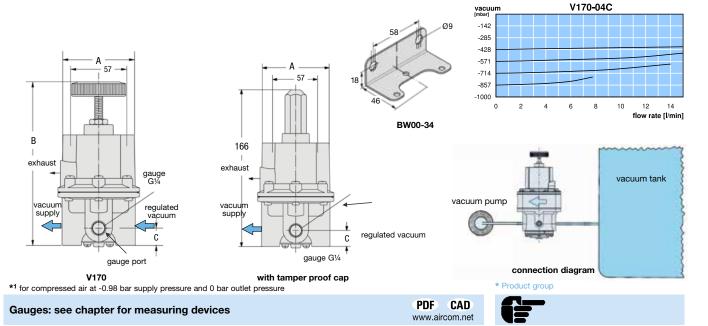
### Special options, add the appropriate letter

NPT	connection thread	V170-0 <b>N</b>
Verstellsicherung	made of aluminium, adjustment by screwdriver, total height 160 mm	V170-0 <b>T</b>
FKM-Elastomere		V170-0 <b>V</b>

#### Accessories, enclosed

pressure gauge	Ø 63 mm, -1 bar0 bar, G¼	MA6302-00
mounting bracket	made of steel	BW00-34





# PRECISION VACUUM PRESSURE REGULATOR 800 L/MIN

Vacuum

range

bar

-1 ... +0.7

-1 ... +2.0 -1 ... + 10

-1 ... +0.7

-1 ... +2.0

-1 ... + 10

supply pressure max. 17 bar,

without constant bleed

Description	Diaphragm vacuum regulator ensuring high pre	ecision 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 without constant bleed					
Air consumption						
Flow rate	800 l/min*1 in vacuum range, 4200 l/min*2 in positive pressure range					
Gauge port	uge port %"NPT on both sides of the body, screw plugs supplied					
Mounting position						
Temperature range						
Material	Body: aluminium die-cast Elastomer: NBR/Buna-N	Inner valve: stainless steel and brass				

Connection

thread

G

G1⁄2

G¾

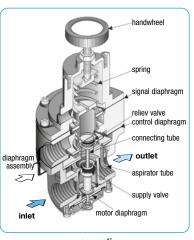
made of aluminium, adjustment by screwdriver, total height 240 mm R251-0...T



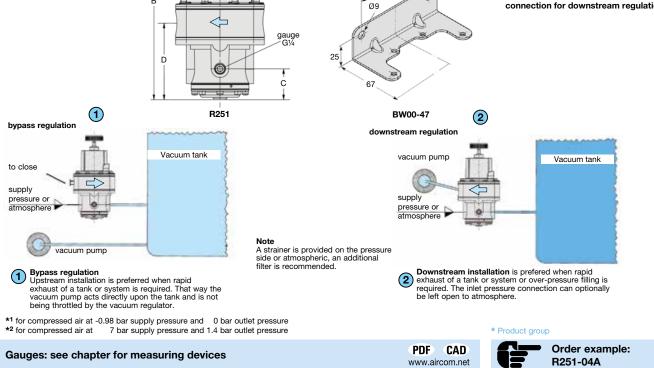
G1/2 and G3/4 vacuum ... 0.7/10 bar



**B251** 



cross section connection for downstream regulation



# Accessories, enclosed

Dimensions

С

mm

40

40

D

mm

Vacuum pressure regulator

98

98

Special options, add the appropriate letter

В

mm

238

238

Α

mm

87

87

NPT

Vakuum

K٧

value

m³/h

2.5

2.5

connection thread

Flow

rate

48

48

m3/h\*1 l/min\*1

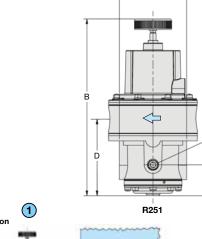
800

800

pressure gauge gauge connector mounting bracket made of steel

tamper-proof cap FKM elastomer

> Ø 63 mm, -1 ... 0 bar, G1/4 made of brass, adapter 1/4"NPT-G1/4 female



MA6302-00 AM-06 BW00-47

92

Order

number

R251

R251-04A R251-04B

R251-04D

R251-06A

R251-06B

R251-0..N

R251-0..V



**B**\*

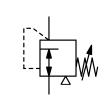
**D**\*

R251

# **VACUUM ADJUSTMENT VALVES**

# V04/V05

Description	When these valves reach a certain precalibrated vacuum degree, they introduce atmospheric air into the circuit to prevent the increase of the actual value and keep it constant.					
Application	They are used as safety valves on non-commissioned tanks or containers at high vacuum level and on vacuum cup lifting systems.					
Media	compressed air or non-corrosive gases					
Adjustment	V04: by rotating the spindle with lock nut in both directions V05: by knurled head screw or adjusting knob on spindle with fine thread					
Mounting position	any					
Temperature range	-20 °C to 80 °C / -4 °F to 176 °F					
Material	Body: nickel-plated brass Inner valve: spring steel and brass Elastomer: NBR/Buna-N					



G<sup>1</sup>/<sub>8</sub> up to G1 vacuum -1 ... 0 bar



A	imensi B	ions SW	Flo	te	Connection Vacuum- thread range		Order number	D*
mm	mm	mm	m³/h	l/min	G	bar		
Vac	cuum	n adju	stment val	ve		um regulator with nal leakage	V04	
45	7	12	4	60	G1⁄/8	-1 0.3	V04-01	
57	15	24	20	330	G1⁄2	-1 0.3	V04-04	
60	12	30	40	660	G¾	-1 0.3	V04-06	
65	12	35	70	1100	G1	-1 0.3	V04-08	

V04-08	-1 0.3	G1	1100	70	35	12	65
V05	cuum regulator with ernal leakage		valve, pree	istment v	n adjus	uum	Vac
V05-02	-1 0	G1⁄4	260	4	25	26	63

G1

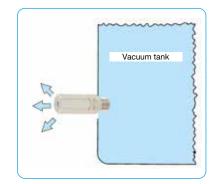




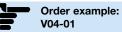
V04-08

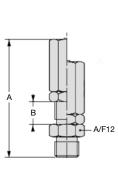






\* Product group





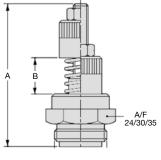
20

700

82

52 32

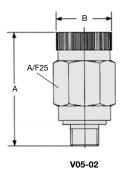
V04-01

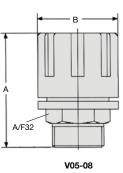


-1 ... 0

V05-08

V04-04 / -06 / -08





#### PDF CAD www.aircom.net

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