VACUUM PRESSURE REGULATOR -

	DESCRIPTION	PRESSURE RANGE	CONNECTION thread	SERIES	PAGE
max. 22 l/min	miniature	-850 0 mbar	1/8″NPT	V800	7.02
max. 22 l/min	miniature	-850 0 mbar	10-32" and flange	V900	7.02
max. 70 l/min	precise	-1 +0,4 / 10 bar	G1⁄4	R250	7.03
max. 330 l/min	precise	-990 0 mbar	G1/4 - G1/2	V170	7.04
max. 800 l/min	precise	-1 +0.7 / 10 bar	G1/2 and G3/4	R251	7.05
vacuum adiustme	ent valve	-10.3 / 0 bar	G1/8 - G1	V04/V05	7.06





MINIATURE VACUUM PRESSURE REGULATOR, MADE OF PLASTIC

Description Miniature precision vacuum regulator with diaphragm and high outlet pressure constancy, small dimensions low weight. 20-turn hysteresis-free adjustment range allows sensitive pressure setting.

Media compressed air or non-corrosive gases

Supply pressure max. -1000 mbar

Accuracy

at supply pressure variation of 170 mbar: at supply pressure removal/reapplication: setting accuracy:

0.3 l/min at -1000 mbar supply pressure

Air consumption Adjustment by plastic knob, adjusting screw or preset

not available Gauge port Mounting position

any Temperature range

4 °C to 66 °C / 39 °F to 151 °F Material Body:

polysulfone stainless steel and acetal Inner valve:

< 4 mbar pressure deviation < 7 mbar pressure deviation

Elastomer: NBR/Buna-N

< 2.5 mbar



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

Di	mensio	ons	Pressure	Flow	Vacuum	Order		
Α	В	С	adjustment	rate	range	number		
mm	mm	mm	by	l/min	mbar			

Vac	uum	n reg	ulator 10-32″		ply pressure max1000 mbar, constant bleed	V900-W
29	78	8	adjusting knob	22	-3500	V900-10WK
					-8500	V900-30WK
29	60	8	adjusting screw	22	-3500	V900-10WOS
					-8500	V900-30WOS
29	43	8	preset	22	indicate on order	V901

Vac	uum	reg	lator with flange		pply pressure max1000 mbar, th constant bleed	V900-M
29	78	8	adjusting knob	22	-3500	V900-10MWK
					-8500	V900-30MWK
29	60	8	adjusting screw	22	-350 0	V900-10MWOS
					-8500	V900-30MWOS
29	43	8	preset	22	indicate on order	V901M



1/8" NPT connection thread, width 40 mm **V**8..-....

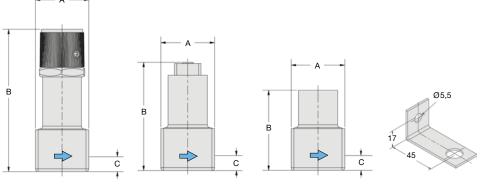
Accessories, enclosed

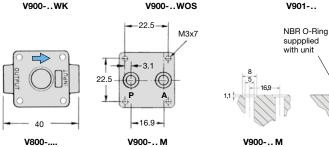
BW15-01 mounting bracket made of steel

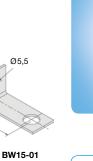




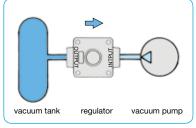
V900- .. WOS







V901-..



vacuum connection



V900-.. M

PRECISION VACUUM PRESSURE REGULATOR 70 L/MIN

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

response sensitivity: < 2 mbar Accuracy by handwheel with locknut Adjustment

Air consumption max. 2.8 I/min in positive pressure range

Flow rate 70 l/min*1 in vacuum range, 900 l/min*2 in positive pressure range

G¼ on both sides of the body, screw plugs supplied Gauge port

Mounting position any

-40 °C to 90 °C / -40 °F to 194 °F Temperature range

Material aluminium die-cast Inner valve: stainless steel and brass

Elastomer: NBR/Buna-N

G¹/₄ vacuum0.14/10 bar	ر

Dimensions		K_{ν}	Flow (Connection	n Vacuum Order)		
Α	В	С	D	value	rate	thread	range	number	
mm	mm	mm	mm	m³/h	m ³ /h* ¹ l/min* ¹	G	bar		

R250	supply pressure max. 17 bar, with constant bleed			Vacuum pressure regulator											
R250-020	-1 +0.14	G1⁄4	70	4	0,78	65	20	184	68						
R250-02A	-1 +0.7														
R250-02B	-1 +2.0														
R250-02C	-1 +7.0														
R250-02D	-1 + 10														

Special options, add the appropriate letter

connection thread R250-0 . . N

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



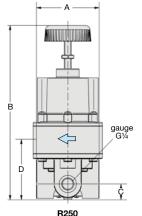
R250

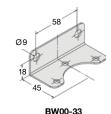
Accessories, enclosed

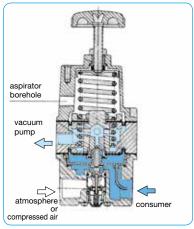
pressure gauge mounting bracket

Ø 63 mm, -1 ... 0 bar, G %made of steel

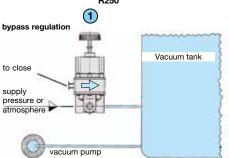




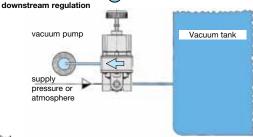




cross-section connection for downstream regulation



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



Downstream regulation
The regulator is located between the pump and the tank. The vacuum pump is energy-saving and it is easy to fill the tank to its optimal level with pressure or vacuum.







Vacuum

 $^{^{\}star 1}$ for compressed air at -0.98 bar supply pressure and $$ 0 bar outlet pressure $^{\star 2}$ for compressed air at $$ 7 bar supply pressure and 1.4 bar outlet pressure

PRECISION VACUUM PRESSURE REGULATOR 330 L/MIN

Description High precision diaphragm vacuum regulator with high flow capacity. A balanced vacuum valve minimizes the effects of variation.

Media compressed air or non-corrosive gases response sensitivity: < 2 mbar Adjustment by handwheel with locknut

Gauge port G1/4 on both sides of the body, screw plugs supplied

Mounting position

Temperature range 0 °C to 90 °C / 32 °F to 194 °F for appropriately conditioned compressed air down to -40 °C / -40 °F

Material Body: aluminium die-cast

Elastomer: Inner valve:

NBR/Buna-N, optionally FKM stainless steel, brass, aluminium and steel

G¼ up to G½ -170 / -500 / -990 0 mbar

Dimensions		Kv-	Flow	Connection	Pressure	Order			
	Α	В	С	value	rate	thread	range	number	
n	nm	mm	mm	(m³/h)	m³/h*¹ l/mi	n*1 G	mbar		
F	Pre	cisio	n vac	uum red	nulator	supply pressure max.		V170	

Pre	ecisio	n vac	uum regu	ılator		supply pressure max without constant bleed		V170
67	152	25	1.1	20	330	G ½	-170 0 -500 0 -990 0	V170-02A V170-02B V170-02C
67	152	25	1.1	20	330	G¾	-170 0 -500 0 -990 0	V170-03A V170-03B V170-03C
67	152	25	1.1	20	330	G ½	-170 0 -500 0 -990 0	V170-04A V170-04B V170-04C



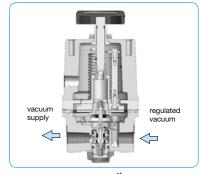
V170

Special options, add the appropriate letter

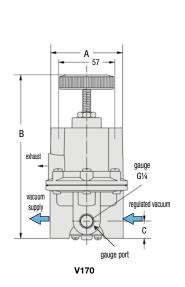
connection thread V170-0.. **N** Verstellsicherung made of aluminium, adjustment by screwdriver, total height 160 mm V170-0.. T **FKM-Elastomere** V170-0.. **V**

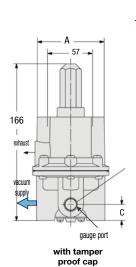
Accessories, enclosed

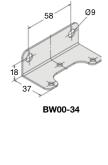
pressure gauge Ø 63 mm, 0 bar down to $\,$ -1bar, G1/4 MA6302-00 mounting bracket made of steel BW00-34

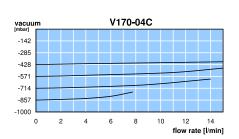


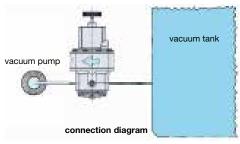
cross-section













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PRECISION VACUUM PRESSURE REGULATOR 800 L/MIN

Description Diaphragm vacuum regulator ensuring high precision in both vacuum and positive pressure range.

Media compressed air or non-corrosive gases

max. 17 bar Supply pressure

Accuracy response sensitivity: < 2.5 mbar Adjustment by handwheel with locknut Air consumption without constant bleed

800 l/min*1 in vacuum range, 4200 l/min*2 in positive pressure range Flow rate

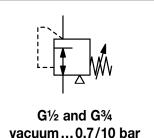
Gauge port $\ensuremath{\text{G}}\xspace\ensuremath{\ensuremath{\mbox{\ensuremath{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath}\ensuremat$

Mounting position

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



	Dimensions				\mathbf{K}_{v}	Flow	Connection	Vacuum	Order	
	Α	В	С	D	value	rate	thread	range	number	
n	nm	mm	mm	mm	m³/h	m ³ /h* ¹ l/min* ¹	G	bar		J

Vac	cuum	n pre	ssur	e reg	ulato		supply pressure max. 17 bar, without constant bleed		
87	238	40	98	2,5	48	800	G1⁄2	-1 +0.7 -1 +2.0 -1 + 10	R251-04A R251-04B R251-04D
87	238	40	98	2,5	48	800	G3/4	-1 +0.7 -1 +2.0 -1 + 10	R251-06A R251-06B R251-06D

Special options, add the appropriate letter

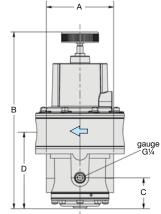
connection thread R251-0..**N** made of aluminium, adjustment by screwdriver, total height 240 mm R251-0..T tamper-proof cap **FKM** elastomer R251-0..**V**

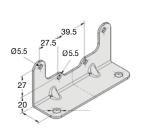


R251

Accessories, enclosed

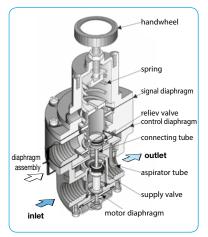
pressure gauge Ø 63 mm, -1 ... 0 bar, $G\frac{1}{4}$ MA6302-00 BW00-47 mounting bracket made of steel



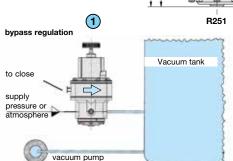


BW00-47

downstream regulation

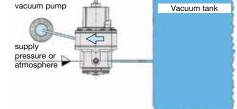


cross section connection for downstream regulation



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.

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



(2)

Downstream regulationThe regulator is located between the pump and the tank. The vacuum pump is energy-saving and it is easy to fill the tank to its optimal level with pressure or vacuum.

*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

Gauges: see chapter for measuring devices

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7.05 7.05



VACUUM ADJUSTMENT VALVES

When these valves reach a certain precalibrated vacuum degree, they introduce atmospheric air into the circuit to prevent the increase of the set value and keep it constant. Description

Application

Media compressed air or non-corrosive gases

Adjustment

V04: by rotating the knurled bush in both directions V05: by knurled head screw or adjusting knob on spindle with fine thread

Mounting position

-20 °C to 80 °C / -4 °F to 176 °F Temperature range

Material Inner valve: spring steel and brass

nickel-plated brass NBR/Buna-N Body: Elastomer:



G1/8 up to G1 vacuum -1 ... 0 bar

1	Dimensions			Flo	Flow		Vacuum-	Order	
	Α	В	SW	rat	rate		range	number	
	mm	mm	mm	m³/h*1	I/min*1	G	bar		

Vac	uum	ı adjı	ustment val	ve	Vacuum regulator with external leakage		V04	
45	7	12	4	60	G½	-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	



Vac	uum	ı adjı	ustment v	alve, pred		acuum regulator with kternal leakage	V05
63	26	25	4	260	G1/4	-1 0	V05-02
82	52	32	20	700	G1	-1 0	V05-08



V04-06 V04-08

