

# Booster Regulator

# VBA Series

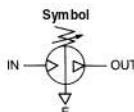
## How to Order

**VBA 40A - □ 04 - □**

Body size\*

10A	1/4", Knob-operated type	Pressure increase ratio: Twice
20A	3/8", Knob-operated type	
40A	1/2", Knob-operated type	
22A	3/8", Air-operated type	
11A Note)	1/4", Knob-operated type	Pressure increase ratio: 2 to 4 times

Note) Set the pressure increase ratio to 2 or more.



VBA10A-02



VBA20A-03



VBA40A-04

Thread type Note)

Symbol	Thread type
NII	Rc
F	G
N	NPT
T	NPTF

Note) Thread types apply to the IN, OUT, and EXH ports of the VBA1□A and to the IN, OUT, EXH, and gauge ports of the VBA2□A and VBA4□A.

The gauge ports of the VBA1□A are Rc thread type regardless of the thread type indication.

Port size\*

Symbol	Port size	Applicable series
02	1/4	VBA1□A
03	3/8	VBA2□A
04	1/2	VBA4□A

● Semi-standard

Symbol	Semi-standard
NII	Standard product
Z Note)	<ul style="list-style-type: none"> <li>Pressure unit on the product name label: psi</li> <li>Pressure unit on the pressure gauge: MPa and psi</li> </ul>

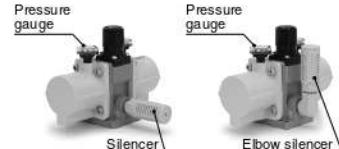
Note) Thread type: NPT, NPTF

Under the new measurement law, the pressure unit of "psi" on the pressure gauges cannot be used in Japan.

● Option

Symbol	Option
NII	None
G	Pressure gauge
N	Silencer
S	High-noise reduction silencer Note)
GN	Pressure gauge, Silencer
GS	Pressure gauge, High-noise reduction silencer Note)
LN	Elbow silencer Note)
LS	Elbow high-noise reduction silencer Note)
GLN	Pressure gauge, Elbow silencer Note)
GLS	Pressure gauge, Elbow high-noise reduction silencer Note)

Note) Refer to "Combination of Thread Type and Options."

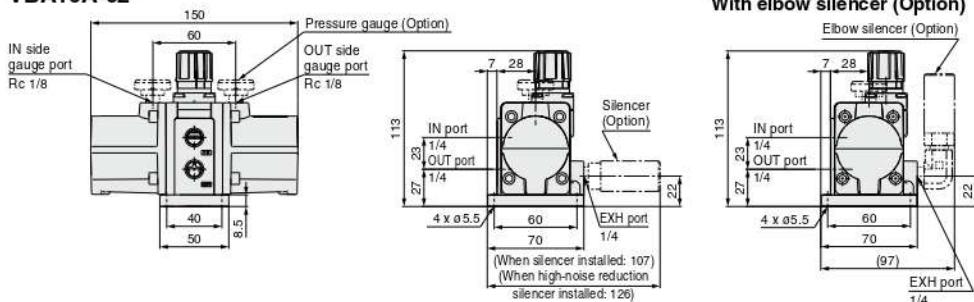


Combination of Thread Type and Options

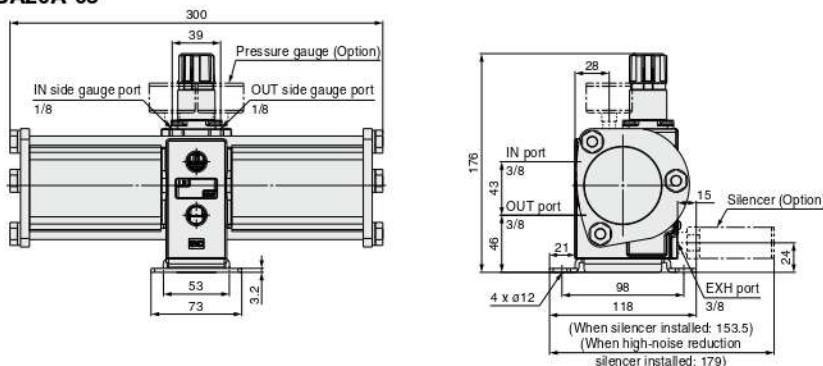
Body size	Thread type	Option										Semi-standard	
		NII	G	N	S	GN	GS	LN	LS	GLN	GLS	NII	-Z
10A	NII	●	●	●	●	●	●	●	●	●	●	●	●
	F	●	●	●	●	●	●	●	●	●	●	●	—
	N	●	●	●	●	—	●	—	●	—	●	●	●
	T	●	●	●	—	●	●	●	●	●	—	●	●
20A	NII	●	●	●	●	●	●	●	●	●	●	●	●
	F	●	●	●	●	●	●	●	●	●	●	●	—
	N	●	●	●	●	●	●	●	●	●	●	●	●
	T	●	●	●	●	●	●	●	●	●	●	●	●
40A	NII	●	●	●	●	●	●	●	●	●	●	●	—
	F	●	●	●	●	●	●	●	●	●	●	●	—
	N	●	●	●	●	●	●	●	●	●	●	●	●
	T	●	●	●	●	●	●	●	●	●	●	●	●

### Dimensions

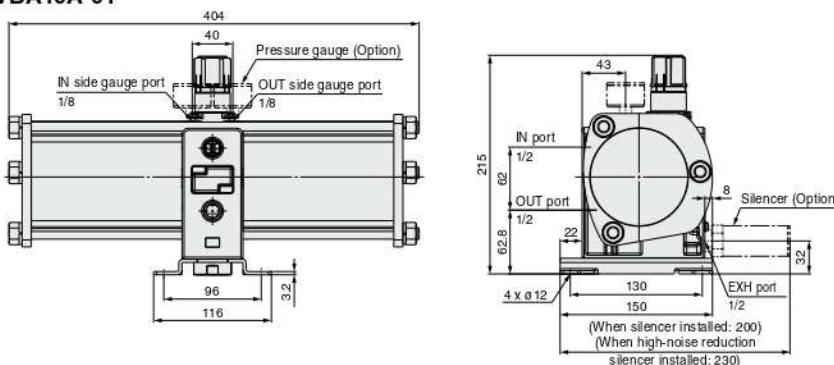
#### VBA10A-02



#### VBA20A-03



#### VBA40A-04



**Standard Specifications**

Model	VBA10A-02	VBA20A-03	VBA40A-04
<b>Fluid</b>	Compressed air		
<b>Pressure increase ratio</b>	Twice		
<b>Pressure adjustment mechanism</b>	Knob-operated with relief mechanism <small>Note 2)</small>		
<b>Max. flow rate</b> <small>(Note 3) (L/min (ANR))</small>	230	1000	1900
<b>Set pressure range (MPa)</b>	0.2 to 2.0	0.2 to 1.0	
<b>Supply pressure range (MPa)</b>	0.1 to 1.0		
<b>Proof pressure (MPa)</b>	3	1.5	
<b>Port size (Rc) (IN/OUT/EXH: 3 locations)</b>	1/4	3/8	1/2
<b>Pressure gauge port size (Rc) (IN/OUT: 2 locations)</b>	1/8		
<b>Tank connection port (with plug)</b> <small>(Note 5)</small>	1/4	3/8	1/2
<b>Ambient and fluid temperature (°C)</b>	2 to 50 (No freezing)		
<b>Installation</b>	Horizontal		
<b>Lubrication</b>	Grease (Non-lube)		
<b>Weight (kg)</b>	0.84	3.9	8.6

Note 1) Be sure to secure an air supply capacity of the minimum operating pressure (0.1 MPa) or more.

Note 2) If the OUT pressure is higher than the set pressure by the knob, excess pressure is exhausted from the back of the knob.

Note 3) Flow rate at IN=OUT=0.5 MPa. The pressure varies depending on the operating conditions. Refer to "Flow Rate Characteristics" on pages 1012 and 1013.

Note 4) Set the pressure increase ratio to 2 or more.

Note 5) The tank connection port cannot be used for applications other than the connection with VBAT.

**Options/Part No.****Pressure Gauge, Silencer (When thread type is Rc or G.)**

Model	VBA10A-02	VBA20A-03	VBA40A-04
Description	VBA10A-F02	VBA20A-F03	VBA40A-F04
Pressure gauge G	G27-20-01	G36-10-01	
Silencer N	AN20-02	AN30-03	AN40-04
High-noise reduction silencer S	ANA1-02	ANA1-03	ANA1-04
Elbow for silencer L	KT-VBA10A-18	—	—

Note 1) In the case of options GN, two pressure gauges and one silencer are included in the same container as accessories.

Note 2) KT-VBA22A-7 is a pressure gauge with fitting. (Please order two units when using with IN and OUT.)

**Pressure Gauge, Silencer (When thread type is NPT or NPTF.)**

Model	VBA10A-N02*	VBA20A-N03*	VBA40A-N04*
Description	VBA10A-T02*	VBA20A-T03*	VBA40A-T04*
Pressure gauge *: when "N"	*: when "Z"	*: when "Z"	*: when "Z"
Pressure gauge *: when "Z" <small>Note 4)</small>	G27-20-01	G36-10-N01	
Silencer N	G27-P20-01-X30	G36-P10-N01-X30	
High-noise reduction silencer S	AN20-N02	AN30-N03	AN40-N04
Elbow for silencer L	KT-VBA10A-18N	—	—

Note 1) In the case of options GN, two pressure gauges and one silencer are included in the same container as accessories.

Note 2) KT-VBA22A-7N, KT-VBA22A-8N are pressure gauges with fittings. (Please order two units when using with IN and OUT.)

Note 3) Under the new measurement law, the pressure unit of "psi" on the pressure gauges cannot be used in Japan.

Note 4) Pressure unit on the pressure gauge: MPa and psi