

Air Tank

Series VBAT

How to Order



VBAT05A



VBAT38A

VBAT 10 A - S

Tank inner volume

Material	Inner volume
05	5 ℓ
10	10 ℓ
20	20 ℓ
38	38 ℓ

Material

Symbol	Material
A	Carbon steel

Thread type

Symbol	Thread type
—	Rc
F	G

Overseas-compatible product

Symbol	Standard
-Q	CE marking

Option

Symbol	Option
V	Drain valve

Option

Symbol	Option	Applicable model
R	Safety valve (Set pressure 1 MPa)	VBAT20A VBAT38A
S	Safety valve (Set pressure 2 MPa)	VBAT05A VBAT10A

- Compact connections are possible with booster regulators.
- It can be used alone as a tank. The pressure vessel law is different from country to country, so confirm a suitable air tank to your place.

Specifications and option combinations

● Required ○ Combination possible

Option	Material	Option	Thread type
A: Carbon steel S: Stainless steel		Safety valve Drain valve	Rc G
Overseas-compatible product: CE marking ^{Note)}	A	●	○

Note) Tanks for overseas are carbon steel products.

Model (Carbon Steel)

Model	VBAT05A	VBAT10A	VBAT20A	VBAT38A
Tank capacity (ℓ)	5	10	20	38
Max. operating pressure (MPa)	2.0		1.0	
IN port size (Rc)	3/8	1/2	3/4	3/4
OUT port size (Rc)	3/8	1/2	1/2	3/4
Ambient and fluid temperature (°C)	0 to 75			
Weight (kg)	6.6	10.0	14.0	21.0
Material	Carbon steel			
Paint	Outside: Silver paint, Inside: Rustproof paint			

Note) Accessories and options are enclosed in a package.

List of Air Tank for Overseas

The pressure vessel law is different from country to country, so an air tank suitable to a country needs to be manufactured.

Country/Region	Law	Exportable models	Details
EU	CE Marking Simple Pressure Vessels Directive	VBAT05A-SV-Q, VBAT05AF-SV-Q	Applicable product Self-declaration document attached
		VBAT10A-SV-Q, VBAT10AF-SV-Q	
		VBAT20A-RV-Q, VBAT20AF-RV-Q	
		VBAT38A-RV-Q, VBAT38AF-RV-Q	

VBAT□A (Carbon Steel) Accessories/Part No.

Model	VBAT05A	VBAT10A	VBAT20A	VBAT38A
Accessory kit number contains a set with the following parts ① to ⑤.	VBAT5A-Y-2	VBAT10A-Y-2	VBAT20A-Y-2	
① Bushing assembly for connection (1 pc.) ^{Note)}	VBAT5A-Y-1	VBAT10A-Y-1	VBAT20A-Y-1	
② Hexagon socket head cap screw/SW (4 pcs.)	M5	M5/M10	M10	
③ Anchor bolt/Nut (4 pcs.)	No accessories		M12	
④ Drain port plug (1 pc.)	Hexagon socket head taper plug R1/4 (Stainless steel)			
⑤ Safety valve port plug (1 pc.)	Hexagon socket head taper plug R3/8 (Steel)			

Note) Equipped with an ozone-resistant O-ring.

Options/Part No.

Model	VBAT05A	VBAT10A	VBAT20A	VBAT38A
Safety valve (Set pressure 1 MPa) ^{Note)}	VBAT-R			
Safety valve (Set pressure 2 MPa) ^{Note)}	VBAT-S		—	
Drain valve	VBAT-V1			

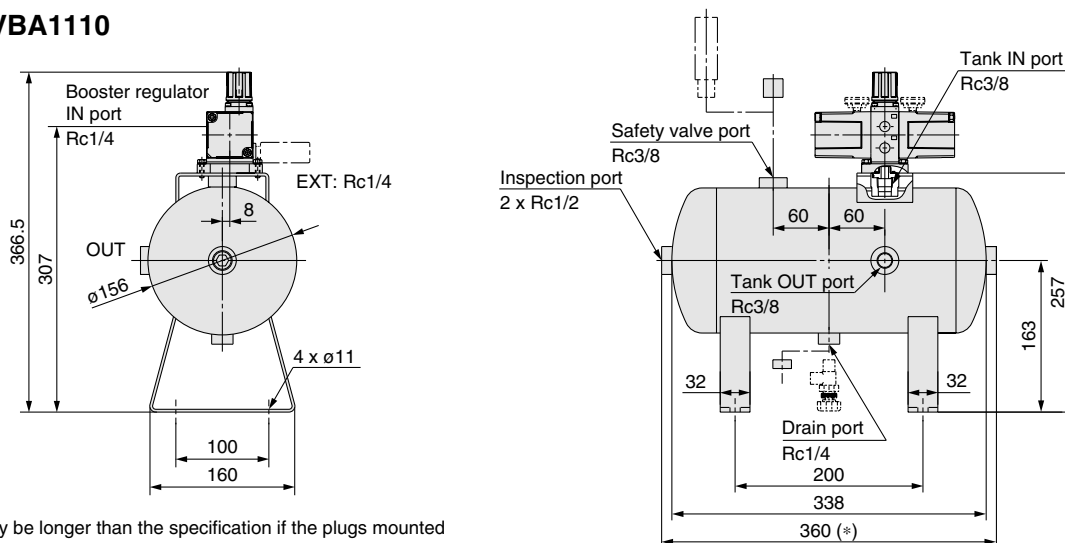
Note) The set pressure of the safety valve cannot be changed.

Series VBAT

Dimensions: VBAT05A, 10A (Material: Carbon Steel)

VBAT05A

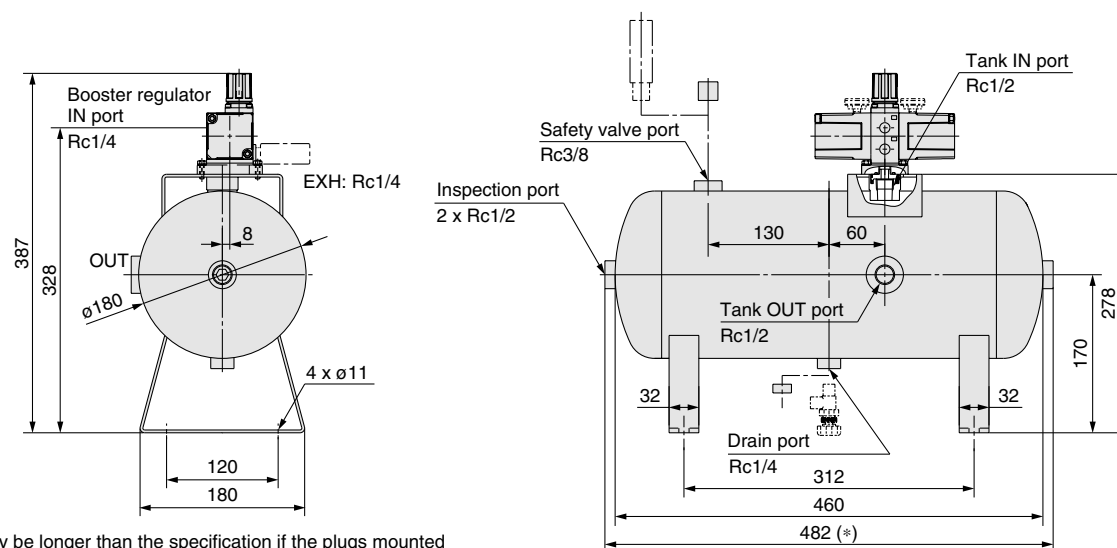
Connected to VBA1110



Note) The length may be longer than the specification if the plugs mounted on the both sides of the tank are not fit to the end.

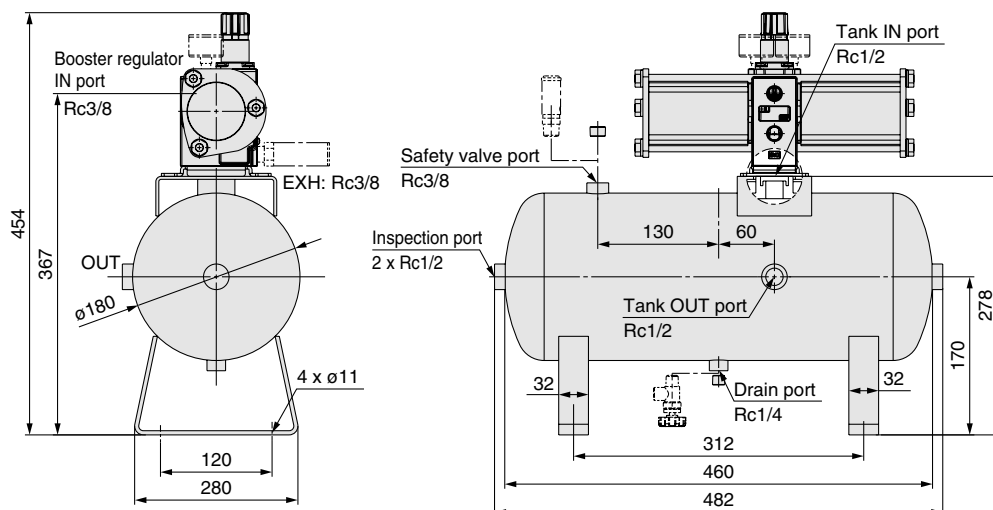
VBAT10A

Connected to VBA1110



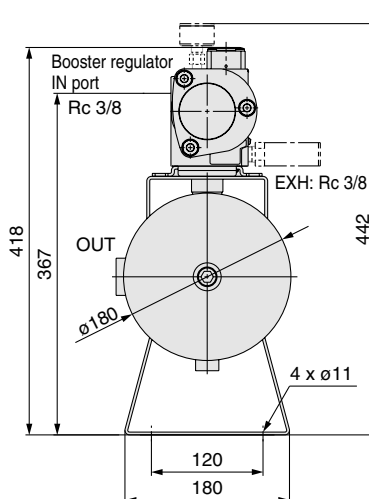
Note) The length may be longer than the specification if the plugs mounted on the both sides of the tank are not fit to the end.

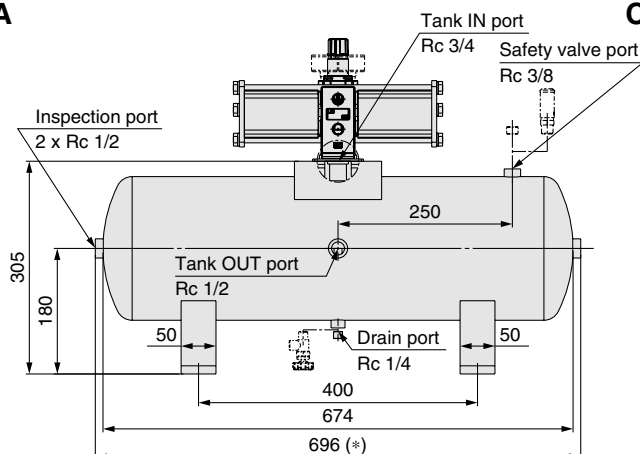
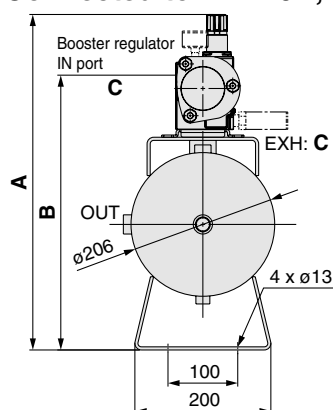
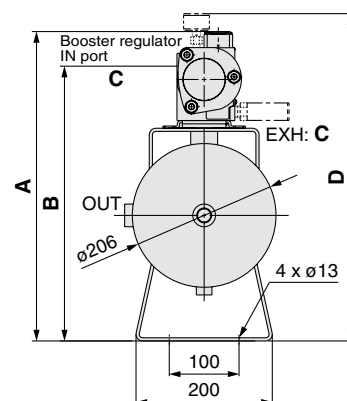
Connected to VBA20A



Note) The length may be longer than the specification if the plugs mounted on the both sides of the tank are not fit to the end.

Connected to VBA22A



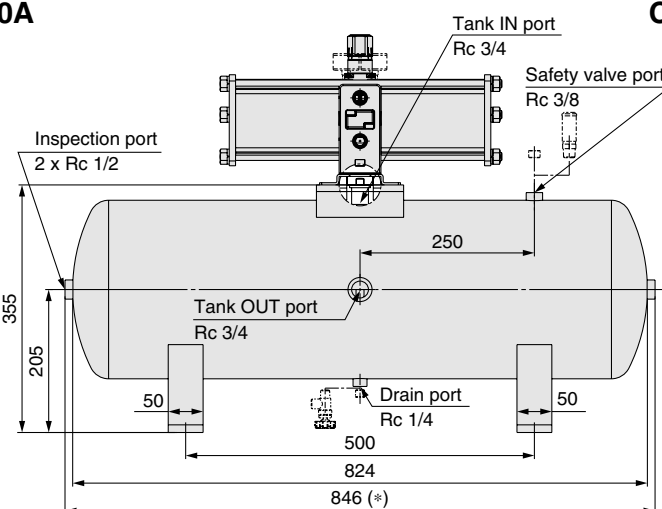
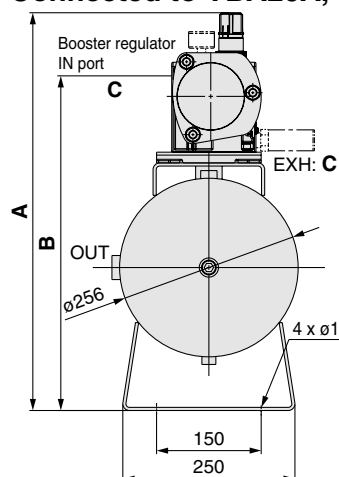
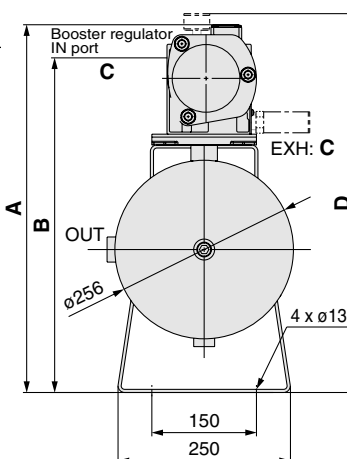
Air Tank **Series VBAT****Dimensions: VBAT20A, 38A (Material: Carbon Steel)****VBAT20A****Connected to VBA20A, 40A****Connected to VBA22A, 42A**

(mm)

Booster regulator model	A	B	C	D (Note)
VBA20A	481	394	Rc 3/8	—
VBA40A	520	430	Rc 1/2	—
VBA22A	445	394	Rc 3/8	469
VBA42A	478	430	Rc 1/2	493

(Note) Option: when G (pressure gauge) is selected

(Note) The length may be longer than the specification if the plugs mounted on the both sides of the tank are not fit to the end.

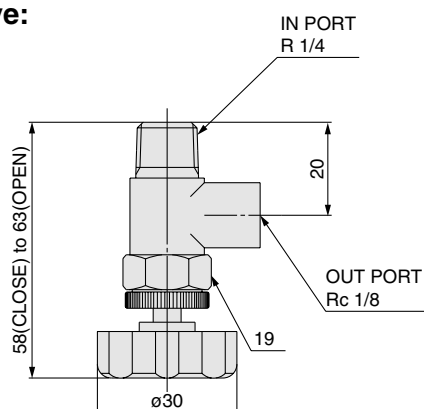
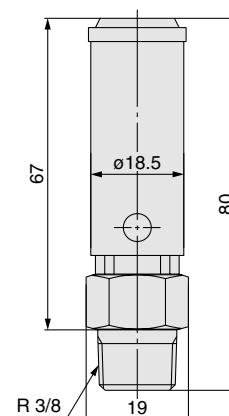
VBAT38A**Connected to VBA20A, 40A****Connected to VBA22A, 42A**

(mm)

Booster regulator model	A	B	C	D (Note)
VBA20A	531	444	Rc 3/8	—
VBA40A	570	480	Rc 1/2	—
VBA22A	495	444	Rc 3/8	519
VBA42A	528	480	Rc 1/2	543

(Note) Option: when G (pressure gauge) is selected

(Note) The length may be longer than the specification if the plugs mounted on the both sides of the tank are not fit to the end.

**Drain valve:
VBAT-V1****Safety valve:
VBAT-R, VBAT-S**

Series VBA**Made to Order**

Please contact SMC for detailed dimensions, specifications, and lead times.

**1 Copper-free/Fluorine-free**

The inner or outer copper parts material has been changed to stainless steel or aluminum. The fluorine resin parts has been changed to general resin.

20 – Standard model no.

- Made to Order
Copper-free, Fluorine-free

Note 1) Inquire about booster regulator with pressure gauge.

2 CE explosion-proof directive (ATEX) compliant**56 – Standard model no.**

- Made to Order
CE explosion-proof directive (ATEX): Category 3GD

3 Ozone resistant

Ozone resistance is strengthened through the use of fluoro rubber (diaphragm) and hydrogenated NBR (valve, rod seal) for the rubber parts of the seal material.

80 – Standard model no.

- Made to Order
Ozone resistant

Note) Weather resistant NBR (diaphragm) and hydrogenated NBR (valve) is used for the rubber parts of standard products.