



Features



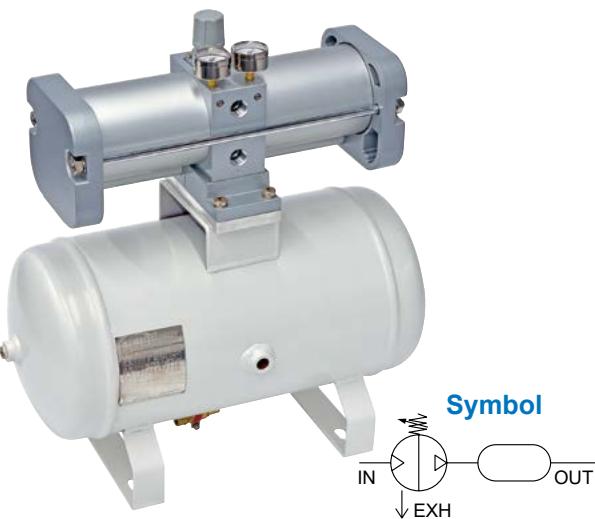
Circuit example



Energy saving



Caution for safety
(Read before installing)



Features

- Increase the primary pressure in the air line up to twice.
- Air-only operation requires no power supply, reduces heat generation, and allows easy installation.

Caution

- If the outlet capacity is undersized, pulsation may occur.
- Make sure to install a mist separator (0.3µm) at the inlet side of the booster regulator.
- The booster regulator has a sliding part inside, and it generates dust. Also, install a cleaning device such as an air filter or a mist separator on the outlet side as necessary.
- Provide a dedicated pipe to release the exhaust air from each booster regulator. If exhaust air is converged into a pipe, the back pressure that is created could cause improper operation.
- Depending on the necessity, install a silencer on the exhaust port of the booster regulator to reduce the exhaustion sound.
- Sufficient space for maintenance and inspection is suggested.

Specification

Model	MVBAT1021	MVBAT2021	MVBAT2121	MVBAT2141	MVBAT22H43			
Medium	Compressed air							
Operating pressure range	0.2~1 MPa			0.2~1.6 MPa				
Supply pressure range	0.1~1 MPa							
Ambient temperature	+2~+50°C (No freezing)							
Attachment (*3)	Pressure gauge	PG-25		PG-40W	PG-40W-20K			
Option (*3)	A: Precision filter regulator	A-BA-03		A-BA-04				
	S: Silencer	MSLT-03		MSLT-04				
	V: Drain valve & piping joint	V-BA-02						
Weight (Booster regulator with air tank) (kg)	12	20	18.5	24	34			
Booster regulator (*1)								
Applicable model	MVBA-2100			MVBA-4100	MVBA-4300			
IN, OUT, EXH port	Rc3/8		Rc1/2					
Air tank (*2)								
Applicable model	MVBAT10A	MVBAT20A	MVBAT21B	MVBAT21C	MVBAT22HC			
OUT port size	Rc3/8		Rc1/2					
IN port size	No port thread provided							
Safety valve square port	–				Rc3/8			
Drain valve port	Rc1/4							
Max. operating pressure MPa	1.15	1.5	1	2				
Proof pressure MPa	1.725	2.25	1.6	3.3				
Ambient & operating fluid temperature	0~+75°C							
Volume (L)	10	20	20					
Material	Carbon steel							
Painting	Exterior	Exterior: Cool gray-white baked paint						
	Interior	No anti-rust coating						
Weight (kg)	8	16	14.5	14.5	24.5			

*1. When selecting option A (precision filter regulator), the booster will use Rc thread specification exclusively. Refer to "MVBAT series spec. .

*2. Not recommended for use solely as an air tank. Only Rc threading is available. For those opting for G or NPT threading, one male-to-female OUT port adapter (1 pc) is included as needed.

*3. Drain valves and precision filter regulator are assembled for shipment. Attachment and optional accessories are included with the shipment separately and are not pre-assembled.

BOOSTER REGULATOR WITH AIR TANK

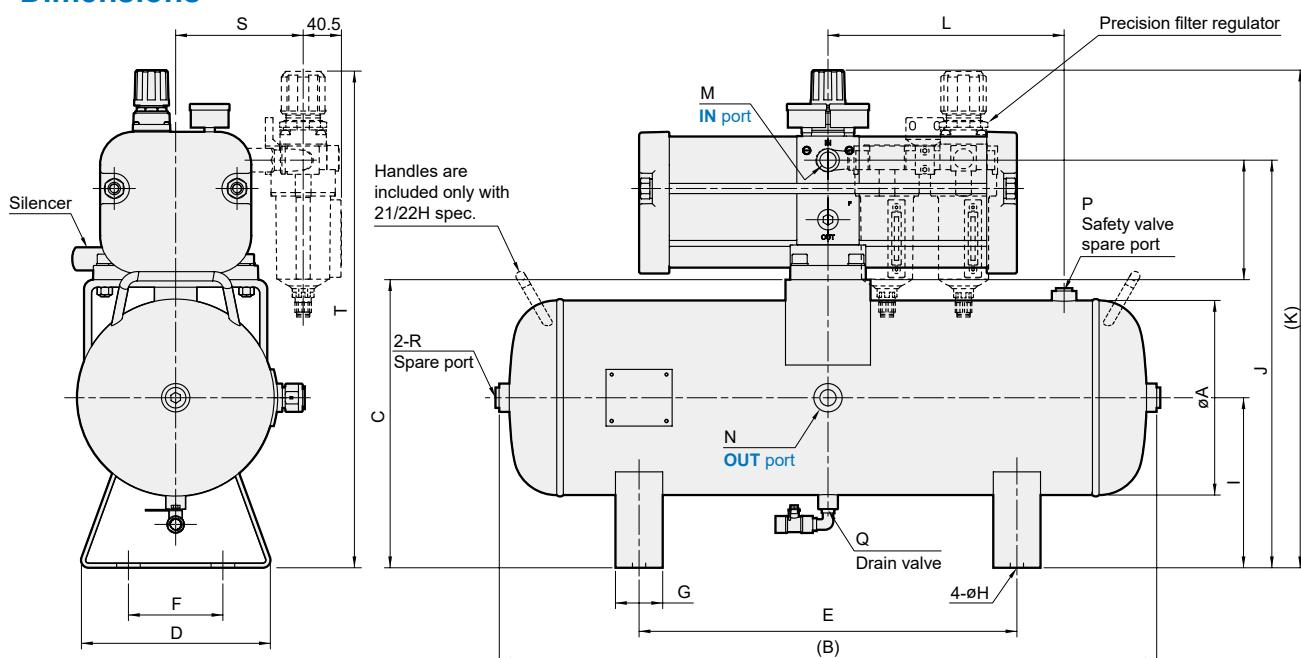
Order example

MVBAT 10 21 – □ – G

MODEL		PORT THREAD	
Tank internal capacity	Booster regulator	Blank: Rc thread	G: G thread
10	10L	21	2100
20	20L		
21	20L	41	4100
22H	20L	43	4300

OPTIONAL
Blank: without
A: Precision filter regulator
S: Silencer
V: Drain valve

Dimensions



Code Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T
MVBAT 1021	200	407	300	200	180	125	25	10	160	389	473							483	
MVBAT 2021	244-248	515								429	513		Rc3/8	Rc3/8			Rc3/8	115	523
MVBAT 2121	244	512	340	250	270	155	38	14	180	466.5	551.5					Rc1/4			560.5
MVBAT 2141										431.5	527	250	Rc1/2	Rc1/2		Rc3/8	Rc1/2	135	525.5
MVBAT 22H43	206	696	305	200	400	155	50	14											