

BOOSTER REGULATOR WITH AIR TANK



Features



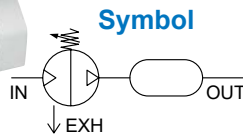
Circuit example



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.
- It is recommended 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 "MVBA 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.

Order example

MVBAT 10 21 — □ — G

MODEL

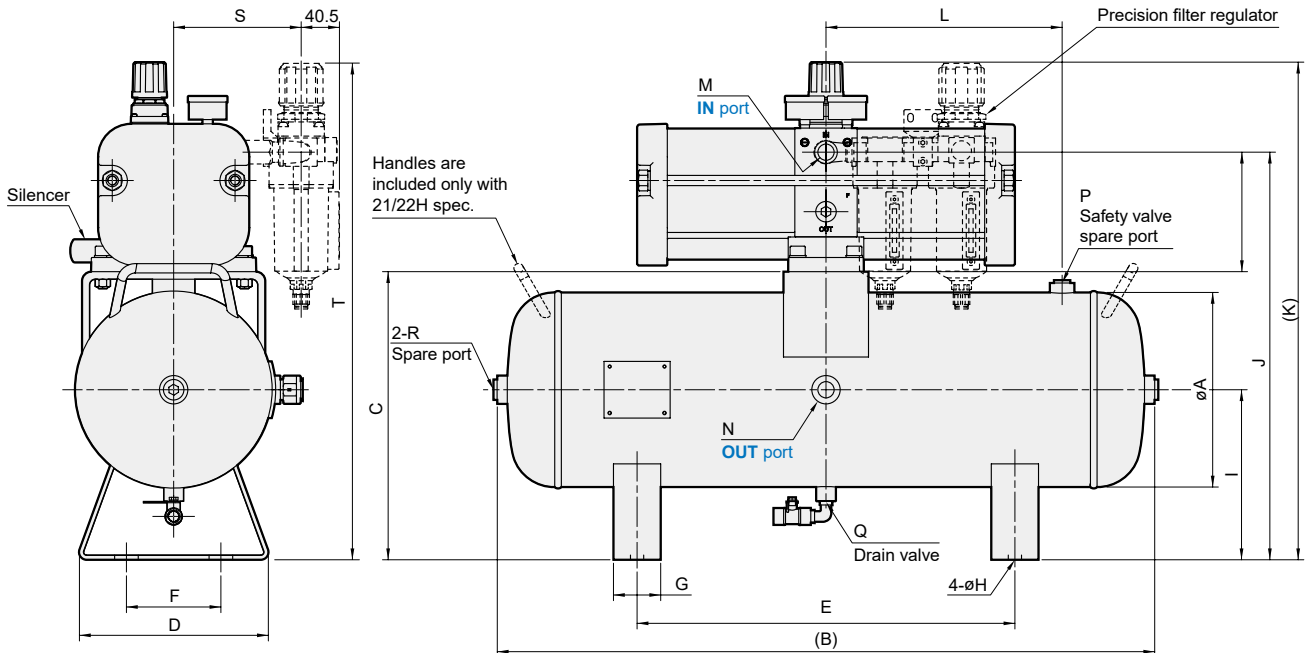
PORT THREAD
Blank: Rc thread
G: G thread
NPT: NPT thread

Tank internal capacity		Booster regulator	
10	10L	21	2100
20	20L		
21	20L	41	4100
	20L		
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	-	Rc3/8	Rc3/8	-	Rc1/4	Rc3/8	115	483
MVBAT 2021	244~248	515	340	250	270	155	38	14	180	429	513		Rc3/8	Rc3/8			Rc3/8		523
MVBAT 2121	244	512								200	400	155	50	14	466.5	551.5	Rc1/2	Rc1/2	Rc1/2
MVBAT 2141			431.5	527	250	Rc3/8	Rc1/2	135	525.5										
MVBAT 22H43	206	696	305	200	400	155	50	14											