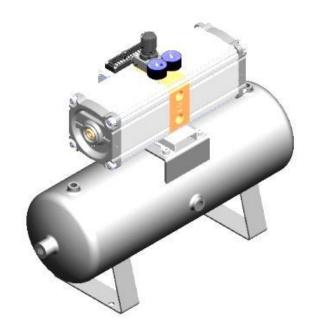
Air Booster module System (ABS SERIES)

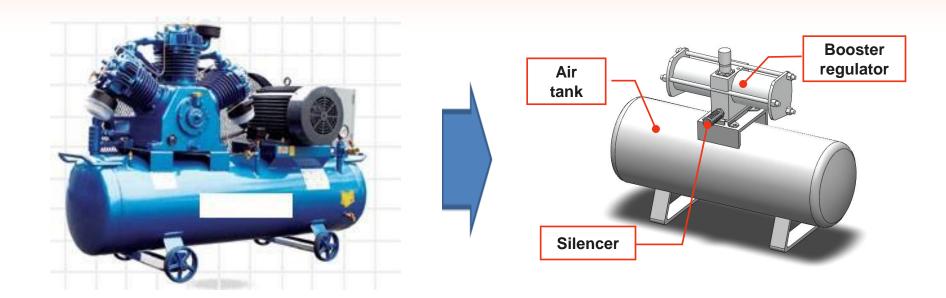


Contents

- 1 Introduction
- 2 How to Order / Specifications
- 3 Performance / Quality
- 4 Sales point



1. Introduction of air booster



Increase factory air pressure 2 times!

- >> Increase air pressure 2 times in 35 seconds
- >> No power supply or wiring needed (eco-friendly)
- >> Easy installation
- >> Reduced noise of compressing air



1. Introduction of air booster

Industry field of applied

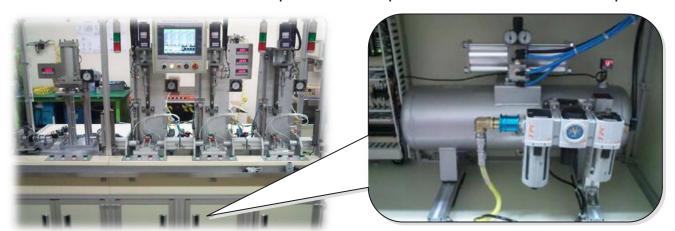
▶ It covers a wide range of industries; factory automation industry, laboratory





Application

▶ It is used for a kind of component on production line and inspection facility



1. Introduction of air booster

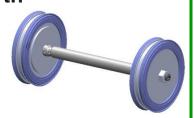


Regulator

Set pressure by adjusting a handle



Increases air pressure 2 times by moving back and forth



Switching valve

5 port air opearted valve operates a piston



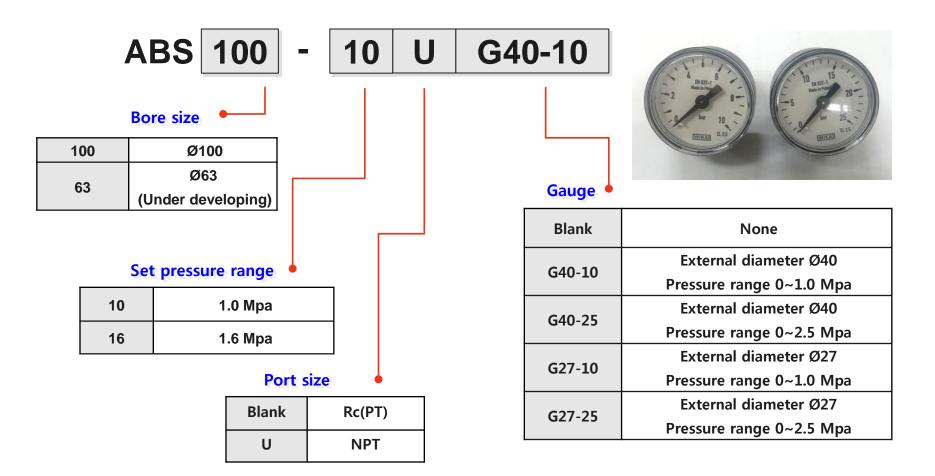
■ Sensing valve

Operated by the piston, and it operates the switching valve



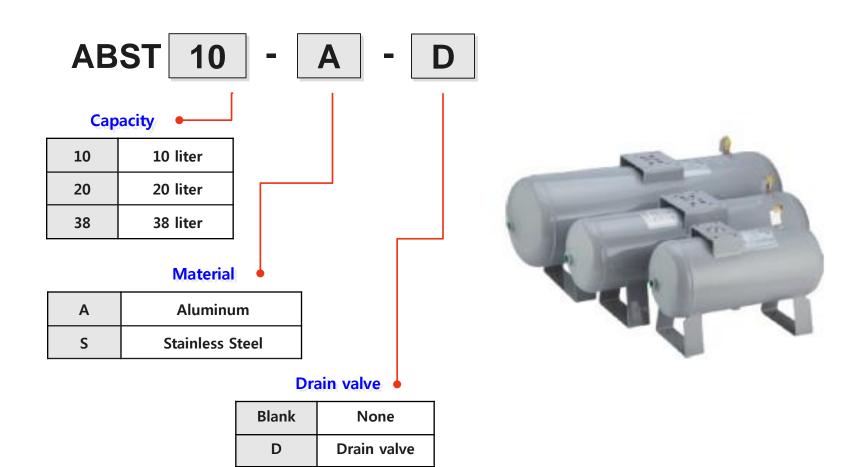
2. How to order

1) Booster regulator



2. How to order

2) Air tank





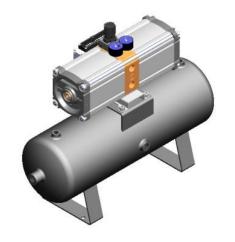
2. Specifications

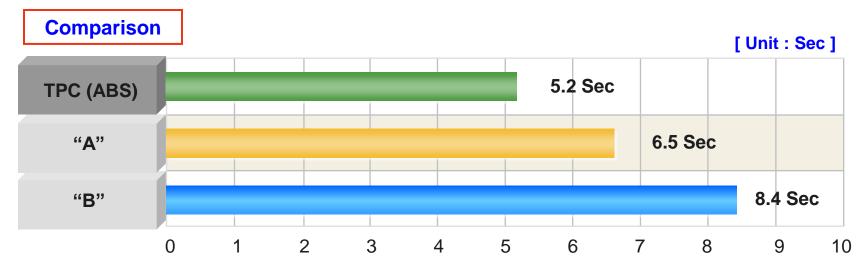
Model	ABS100	
Fluid	Compressed air	
Pressure increase ratio	Twice	
Supply pressure range	0.1 to 1.0 MPa	
Set pressure range	0.2 to 1.0 / 0.2 to 1.6 MPa	
Proof pressure	1.5 MPa	
Pressure characteristics	±0.04 MPa	
Charge characteristics	Under 35 sec	
Noise	Under 80 dB	
Port size (IN, OUT) (RcPT)	1/2	
Port size for pressure gauge (RcPT)	1/8	
Ambient and fluid temperature	0~50 °C	
Lubrication	Non-lube	



Charge time

- 5.2sec required to charge tank(20L) pressure from 5 to 10 Bar (2 times)
- 20% improved than competitor "A"
- 40% improved than competitor "B"







Noise

- With silencer: Max. 71dB
 - Charge pressure from 5 to 10 Bar
 - Background noise 42 ~ 45dB



[unit:dB]

Maker	Without silencer	With silencer	Remark
TPC	91.3 ~ 91.6	66.5 ~ 71.1	
Competitor A		67.3 ~ 73.6	



Piston packing comparison

- Competitor "A" applies PSD PISTON packing with short life span
- TPC applies U-PISTON packing (urethane)
 - Compared to "A" booster, a life span is increased significantly



- Two way packing has shorter life span
- NBR packing gets easily worn down under high speed operation



- Urethane packing gives longer life span
- Improved performance under low pressure operation
- Improved leakage under low pressure operation by one way packing

[Competitor "A"]

[TPC]



Piston packing comparison

After 4 million cycles operated of Competitor "A"



After 9 million cycles operated of TPC booster



▶ U piston packing has only little abrasion after 9 million cycles of operation

4. Sales point







Dust proof by built in mesh at P port

Easy maintenance by outer installation of core parts



4. Sales point

Dimensions

	TPC	Competitor "A"	Competitor "B"	Remark
Length (L)	397.4	404	357	
Width (W)	186	150	244	
Height (H)	227.3	221	244	
Weight (kg)	10.1	8.5	13	

