



# Volume Booster

## TS100 /110/120/105/115/125 Series

- Precise and fast response
- Soft seats provide tight shut off
- Adjustable Sensitivity
- Speed up valve regulation

# Volume Booster TS100/110/120/105/115/125 Series

## ■ Description

Volume Booster is one-to-one Signal to output supply air, when used with a positioner/actuator, it is a control device to increase the stroking speed of control valves.

## ■ Certified



## ■ Features

- ➔ Precise and fast response
- ➔ Soft seats provide tight shut off
- ➔ Adjustable Sensitivity
- ➔ Options available (High and Low temperature)
- ➔ Speed up valve regulation



TS100



TS110



TS120



TS105

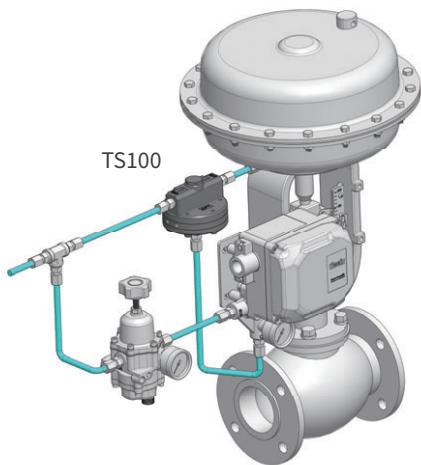


TS115

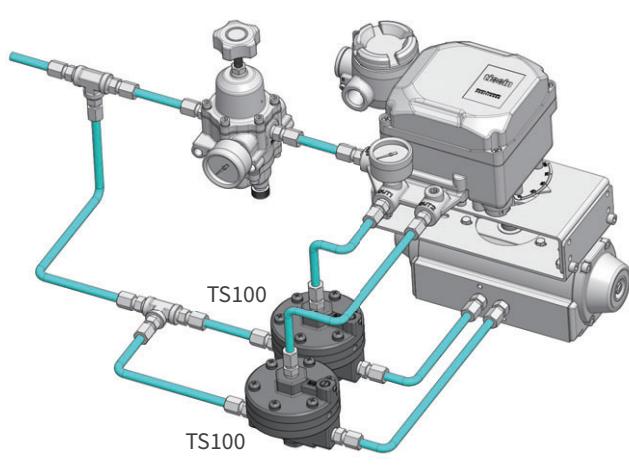


TS125

## ■ Installation examples



Single actuator



Double actuator

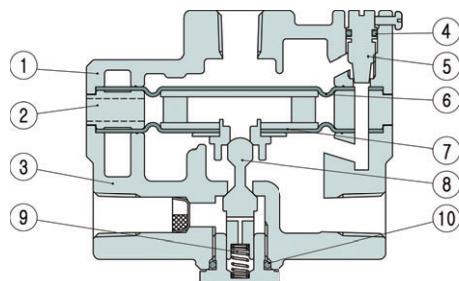
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## ■ Specifications

Model	TS100	TS105	TS110	TS115	TS120	TS125
Max supply pressure	1MPa		1MPa		1MPa	
Signal and output pressure	0.14~0.7MPa		0.14~0.7MPa		0.14~0.7MPa	
Signal to output ratio	1:1		1:1		1:1	
Linearity	1%		1%		1%	
Flow capacity (CV)	Exhaust	1.3		2.1		5.2
	Output	1.2		2.7		4.9
Signal port	NPT1/4, PT1/4		NPT1/4, PT1/4		NPT1/4	
Supply / Output port	NPT1/4, PT1/4		NPT1/2, PT1/2		NPT3/4	
Ambient temperature	Standard type	-20°C~70°C		-20°C~70°C		-20°C~70°C
	High Temp.	-20°C~120°C		-20°C~120°C		-20°C~120°C
	Low Temp.	-40°C~70°C		-40°C~70°C		-40°C~70°C
Material	Aluminum die cast	Stainless steel 316	Aluminum die cast	Stainless steel 316	Aluminum die cast	Stainless steel 316
Weight	0.55kg	1.4kg	0.75kg	1.9kg	1.9kg	4.5kg

## ■ Materials of construction



No.	Title	TS100/110/120	TS105/115/125
1	Cover	ALDC12	STS316
2	Ring exhaust	ALDC12	STS316
3	Body	ALDC12	STS316
4	O-ring	NBR/SILICONE	NBR/SILICONE
5	Adjust screw	STS303	STS316
6	Diaphragm upper	NBR/SILICONE	NBR/SILICONE
7	Ass'y diaphragm	AL/NBR	STS/SILICONE
8	Poppet	STS304	STS316
9	Spring seat	STS304	STS316
10	O-ring	NBR/SILICONE	NBR/SILICONE

## ■ Product code

Model	TS1			
In/ Output port size	1/4"	0		
	1/2"	1		
	3/4"	2		
Material	Aluminum	0		
	Stainless steel 316	5		
Air connection type*	NPT		N	
	PT		P	
Ambient temperature	-20°C~70°C		S	
	-20°C~120°C		H	
	-40°C~70°C		L	
	-60°C~70°C		U	

\* TS120/105/115/125 are only available with NPT.



Solutions for control valve system

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