



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.

Features

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

Certified



TS100



TS110



TS120



TS105

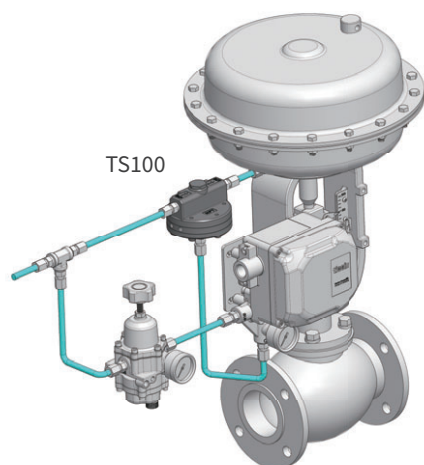


TS115

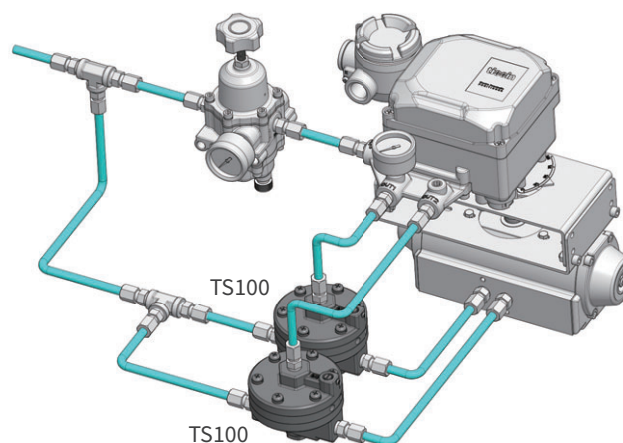


TS125

Installation examples



Single actuator



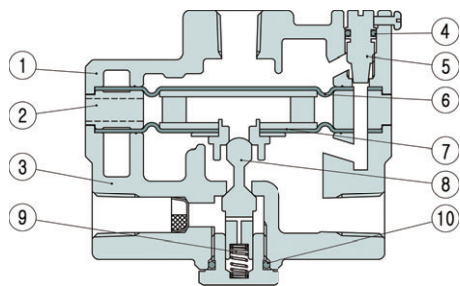
Double actuator

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

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

tissin

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Version: PC-100EN_06/2025

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Printed in Korea