

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



$\label{eq:tolume Booster} TS100/110/120/105/115/125 \ Series$

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



TS100



TS110

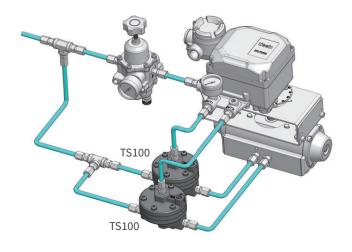


TS120

Installation examples



Single actuator



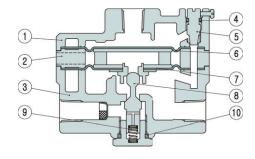
Double actuator

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

Specifications

| Model | | TS100 | TS110 | TS120 | |
|----------------------------|---------------|-------------------|-------------------|-------------------|--|
| 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 | Aluminum die cast | Aluminum die cast | |
| Weight | | 0.55kg | 0.75kg | 1.9kg | |

■ 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 | 1/4" | | 0 | | | |
| port size | 1/2" | | 1 | | | |
| | 3/4" | | 2 | | | |
| Material | Aluminum | | | 0 | | |
| | Stainless ste | eel 316 | | 5 | | |
| Air connection | NPT | | | | N | |
| type* | PT | | | | Р | |
| Ambient | -20°C~70°C | | | | | S |
| temperature | -20°C~120°C | | | | | Н |
| | -40°C~70°C | | | | | L |
| | -60°C~70°C | | | | | U |

 $^{^{\}star}$ TS120/105/115/125 are only available with NPT .



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