

Contact Details

Before using the product, please check the guide pages at the front of this catalog.

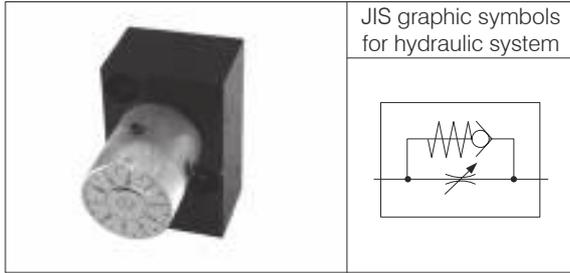
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Compact Throttle Valve with Check Valve

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Features

- The built-in check valve controls the flow in one direction while keeping free flow in the other direction.
- Capable of flow rate control of minimal flow rate to the fully closed state.

Nomenclature

TSC - **※** **01** - **※** **※**

1 2 3 4

1 Model No.

TSC: Compact throttle valve with check valve

2 Connections

G: Gasket mount type
T: Screw connection type

3 Nominal diameter

01: 1/8

4 Design No. (The design No. is subject to change)

No designation: Screw connection type (T) connection
11: Gasket mount type (G) connection

Specifications

| Model code | Nominal diameter | Maximum operating pressure MPa {kgf/cm ² } | Maximum control flow rate L/min | Check valve Cracking pressure MPa {kgf/cm ² } | Mass kg |
|------------|------------------|--|------------------------------------|---|------------|
| TSC-G01-11 | 1/8 | 7 {70} | See the performance curves. | 0.1 {1} | 0.2 |
| TSC-T01 | | | | 0.08 {0.8} | 0.1 |

Accessories (gasket mount type)

| Hexagon socket head cap bolt | Quantity | Tightening torque N·m {kgf·cm} |
|------------------------------|----------|-----------------------------------|
| M5 × 22 | 2 | 5.5 to 7.5 {55 to 75} |

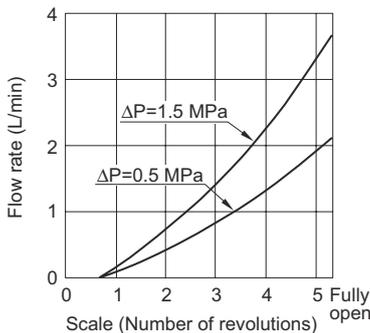
Handling

- Turning the flow rate adjusting handle counterclockwise increases the flow rate. After adjusting the flow rate, tighten the handle locking screw to keep the adjusted position.
- The handle locking screw stops the handle from coming off, so do not loosen it too far.
- There is no special sub-plate provided.

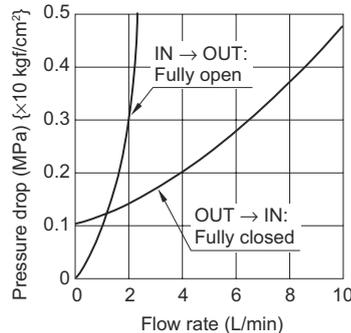
Performance curves (viscosity: 32 mm²/s {cSt})

● TSC-G01

Scale - Flow rate characteristics

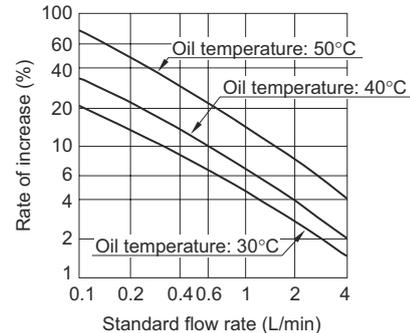


Pressure drop characteristics



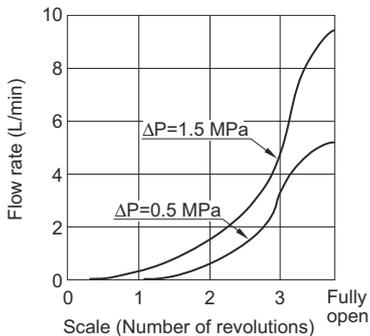
● TSC-※01

Fluid temperature - Flow rate characteristics

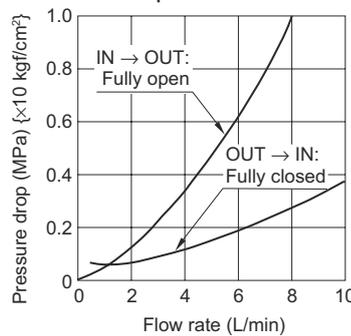


● TSC-T01

Scale - Flow rate characteristics



Pressure drop characteristics



Conditions for the fluid temperature - Flow rate characteristics curve

| | |
|--|--|
| Oil usable | Equivalent to ISO VG32 |
| Pressure difference between inlet and outlet ports | 3 MPa {30 kgf/cm ² } |
| Standard flow rate | Flow rate at fluid temperature of 20°C |

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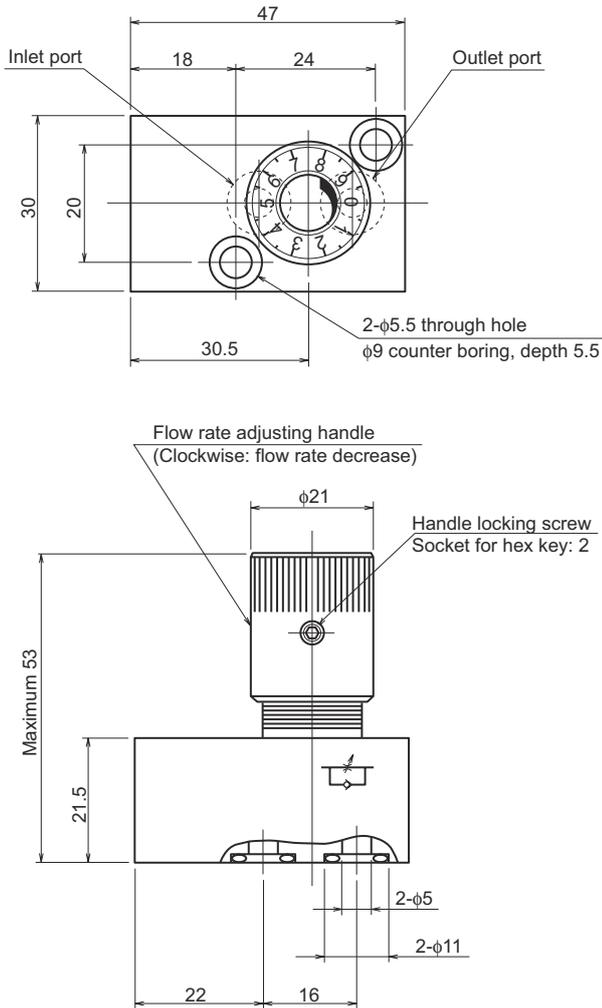
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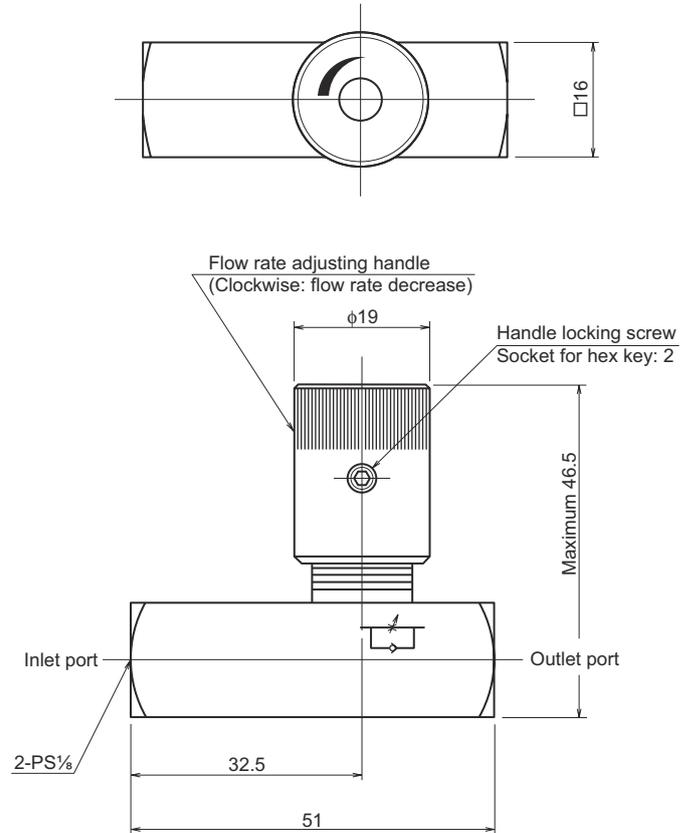
External dimension diagram

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TSC-G01



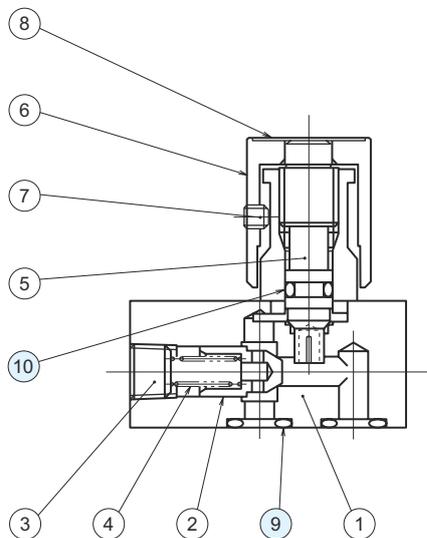
TSC-T01



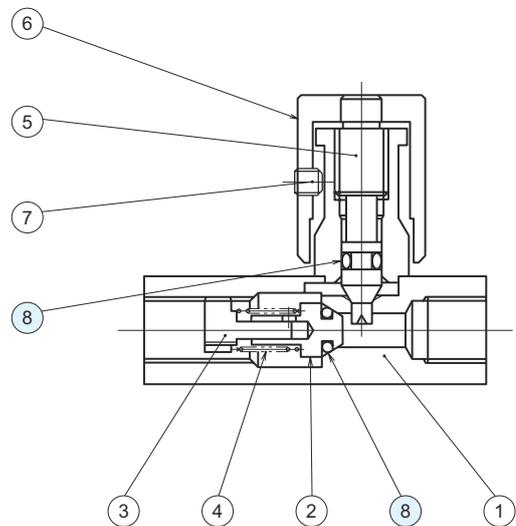
F
FLOW CONTROL VALVES

Sectional structural diagram

TSC-G01



TSC-T01



Sealing part table

| Part No. | Name | Quantity | Part specifications |
|----------|--------|----------|---------------------|
| 9 | O-ring | 2 | JIS B 2401 1B P8 |
| 10 | O-ring | 1 | JIS B 2401 1B P5 |

Sealing part table

| Part No. | Name | Quantity | Part specifications |
|----------|--------|----------|---------------------|
| 8 | O-ring | 2 | JIS B 2401 1B P3 |