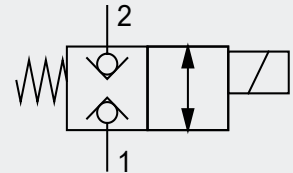


## 2/2-way poppet valve MSVT



Electrically actuated  
Max. operating pressure 350 bar  
Max. flow rate up to 40 l/min



080120\_MSVT\_07  
12.2018

### Table of contents

| Contents                            | Page |
|-------------------------------------|------|
| Characteristics                     | 1    |
| Technical data                      | 2    |
| Characteristic curves               | 2    |
| Dimensions                          | 3    |
| Type code                           | 4    |
| Accessories and further information | 5    |

### Characteristics

- Tight-fitting screw-in poppet valve
- Available as pilot-operated or directly operated
- Available as normally open or normally closed
- Maintenance-free

**Technical data***Hydraulic characteristics*

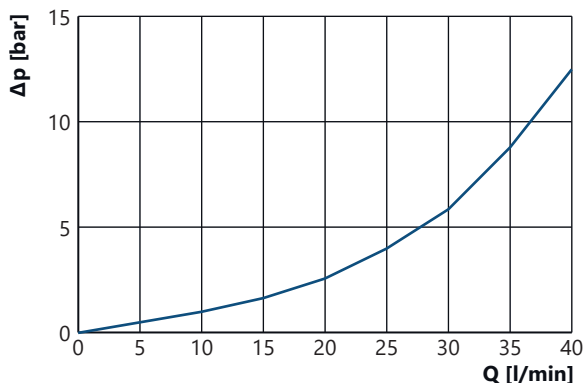
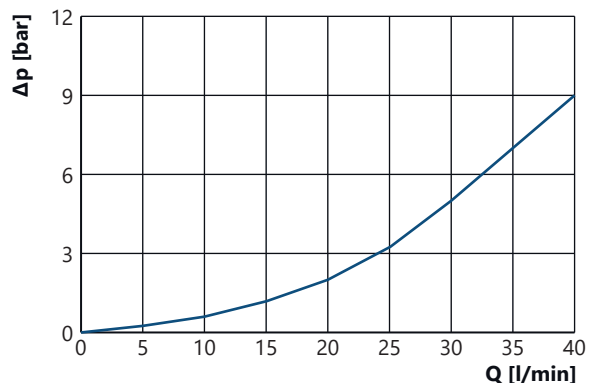
|                         |                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------|
| Max operating pressure: | 350 bar (MSVT-20 and MSVT-21: 250 bar, flow from 1 to 2: 150 bar)                     |
| Flow rate:              | 40 l/min (MSVT-20: 15 l/min, MSVT-21: 30 l/min)                                       |
| Flow direction:         | From 2 to 1 (1 to 2)                                                                  |
| Operating fluids:       | Mineral oils according to DIN 51524, others on request                                |
| Viscosity range:        | 3 - 400 cSt                                                                           |
| Filtration:             | Oil purity according to ISO 4406 (1999)<br>18/16/13, filter with $\beta_{5(c)} > 200$ |

*Mechanical characteristics*

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Design:                | Screw-in valve                                  |
| Fluid temperature:     | -10 °C to +80 °C                                |
| Ambient temperature:   | -20 °C to +50 °C                                |
| Storage temperature:   | -30 °C to +60 °C (non-condensing)               |
| Installation position: | Any                                             |
| Weight:                | 0.31 kg                                         |
| Materials:             | Valve parts: Steel, coil: Plastic<br>Seals: NBR |
| Surface protection:    | burnished/galvanized                            |

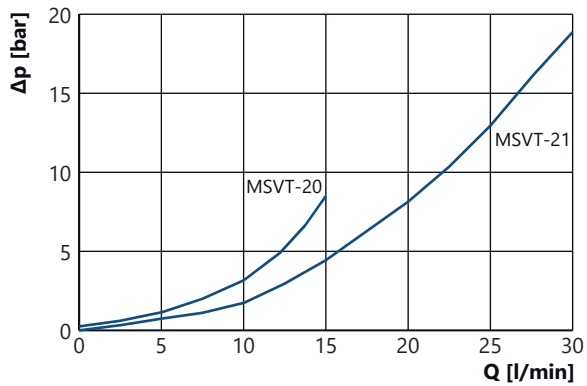
*Electrical characteristics*

|                         |                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Rated voltage:          | 12 V DC, 24 V DC                                                                                                          |
| Rated resistance (R20): | 8 $\Omega$ (12 V), 26 $\Omega$ (24 V)                                                                                     |
| Max. power consumption: | 18 W (12 V), 22 W (24 V)                                                                                                  |
| Power-on time:          | 100 % PO                                                                                                                  |
| Protection class:       | IP65 with a correctly installed wiring box                                                                                |
| Electrical connection:  | Device plug in accordance with DIN EN 175301-803 (formerly DIN 43650) shape A                                             |
| Control units:          | See section 6, " <i>Electronics and Sensors</i> " at <a href="http://www.weber-hydraulik.com">www.weber-hydraulik.com</a> |

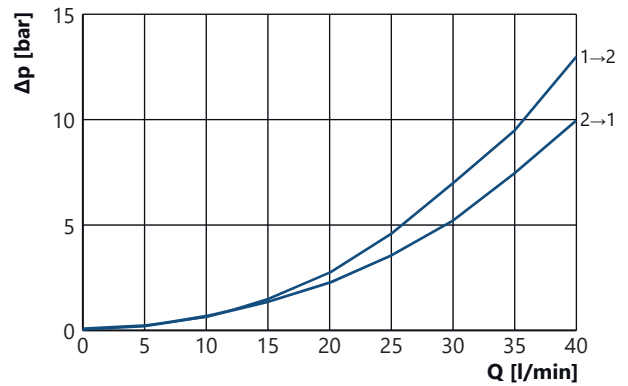
**Characteristic curves****Pressure loss characteristic curve ( $\Delta p/Q$ ) MSVT-03 and MSVT-04****Pressure loss characteristic curve ( $\Delta p/Q$ ) MSVT-07**

## Characteristic curves

Pressure loss characteristic curve ( $\Delta p/Q$ ) MSVT-20 and MSVT-21



Pressure loss characteristic curve ( $\Delta p/Q$ ) MSVT-22

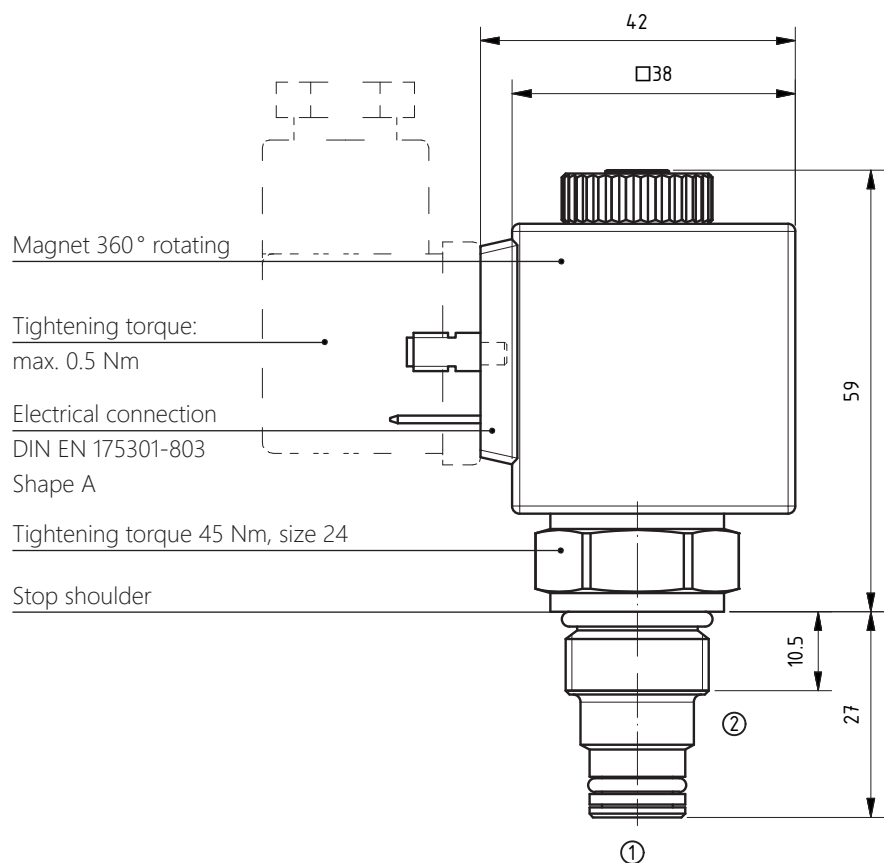


Measurement  
conditions

Oil: HLP 32, temperature: 40 °C (~32 cSt)

## Dimensions

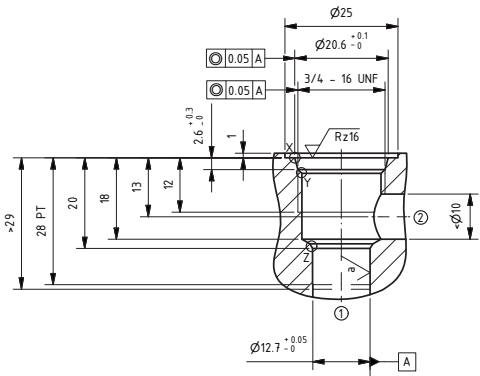
Screw-in valve MSVT



HM4/07 13 04

Dimensions

MSVT (SAE08)



HE4/14 31 03

**NOTE** A detailed drawing of the cavity is provided in section 11, “General information” at [www.weber-hydraulik.com](http://www.weber-hydraulik.com).

Type code

MSVT

2/2-way poppet valve

| Model |                                              |
|-------|----------------------------------------------|
| 03    | Normally closed<br>                          |
| 04    | Normally closed with manual override<br>     |
| 07    | Normally open<br>                            |
| 20    | Normally closed on both sides (15 l/min)<br> |
| 21    | Normally closed on both sides (30 l/min)<br> |
| 22    | Normally closed on both sides<br>            |

| Rated voltage |         |
|---------------|---------|
| 12 V          | 12 V DC |
| 24 V          | 24 V DC |

 Standard program

## Accessories and further information

| <i>Accessories/spare parts</i> | <b>Article:</b>                                                                                                                                                                             | <b>Article number:</b> |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
|                                | Socket DIN EN 175301-803 (formerly DIN 43650), shape A, black                                                                                                                               | 149.0007               |
|                                | Socket DIN EN 175301-803 (formerly DIN 43650), shape A, gray                                                                                                                                | 149.0008               |
|                                | Aluminum casing 3/8"                                                                                                                                                                        | 093.0024               |
|                                | Steel casing 3/8"                                                                                                                                                                           | 153.0139               |
| <i>Operating manual</i>        | Information regarding assembly, commissioning and maintenance is available in section 11, " <b>General information</b> " in the " <b>General Operating Manual</b> " category or on request. |                        |