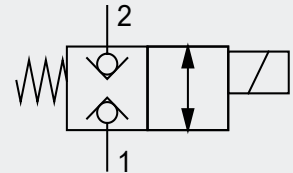


2/2-way poppet valve MSVT



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



080120_MSVT_22
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) 18/16/13, filter with $\beta_{5(c)} > 200$

Mechanical characteristics

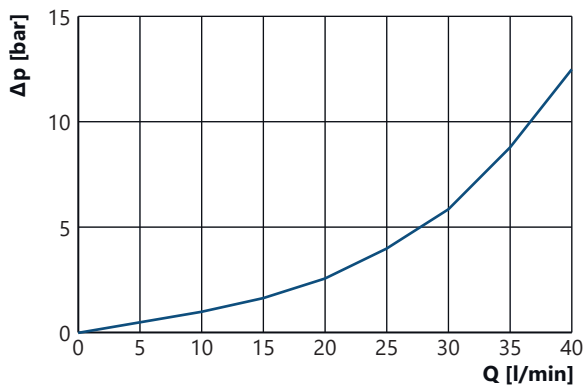
Design:	Screw-in valve
Fluid temperature:	-10 °C to +80 °C
Ambient temperature:	-20 °C to +50 °C
Storage temperature:	-30 °C to +60 °C (non-condensing)
Installation position:	Any
Weight:	0.31 kg
Materials:	Valve parts: Steel, coil: Plastic Seals: NBR
Surface protection:	burnished/galvanized

Electrical characteristics

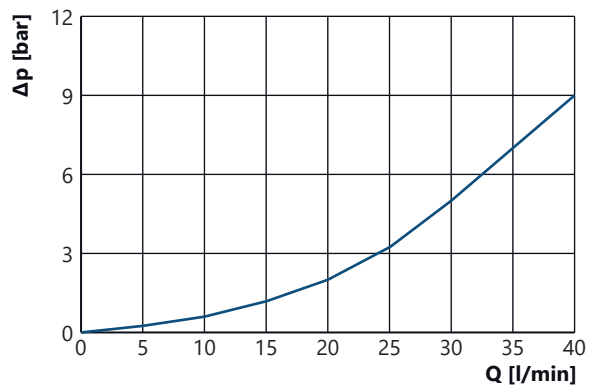
Rated voltage:	12 V DC, 24 V DC
Rated resistance (R20):	8 Ω (12 V), 26 Ω (24 V)
Max. power consumption:	18 W (12 V), 22 W (24 V)
Power-on time:	100 % PO
Protection class:	IP65 with a correctly installed wiring box
Electrical connection:	Device plug in accordance with DIN EN 175301-803 (formerly DIN 43650)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

Characteristic curves

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

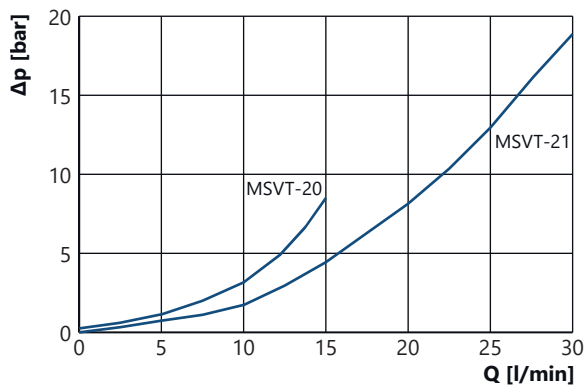


Pressure loss characteristic curve ($\Delta p/Q$) MSVT-07

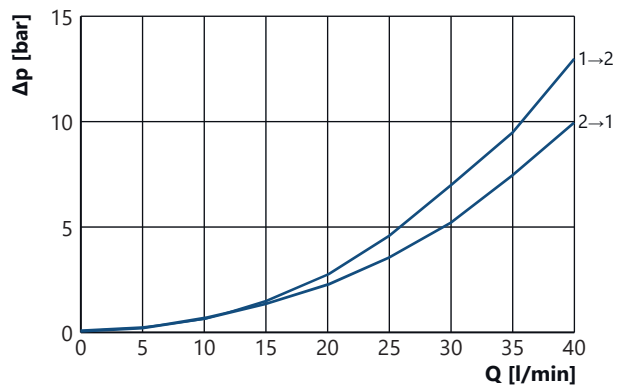


Characteristic curves

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



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

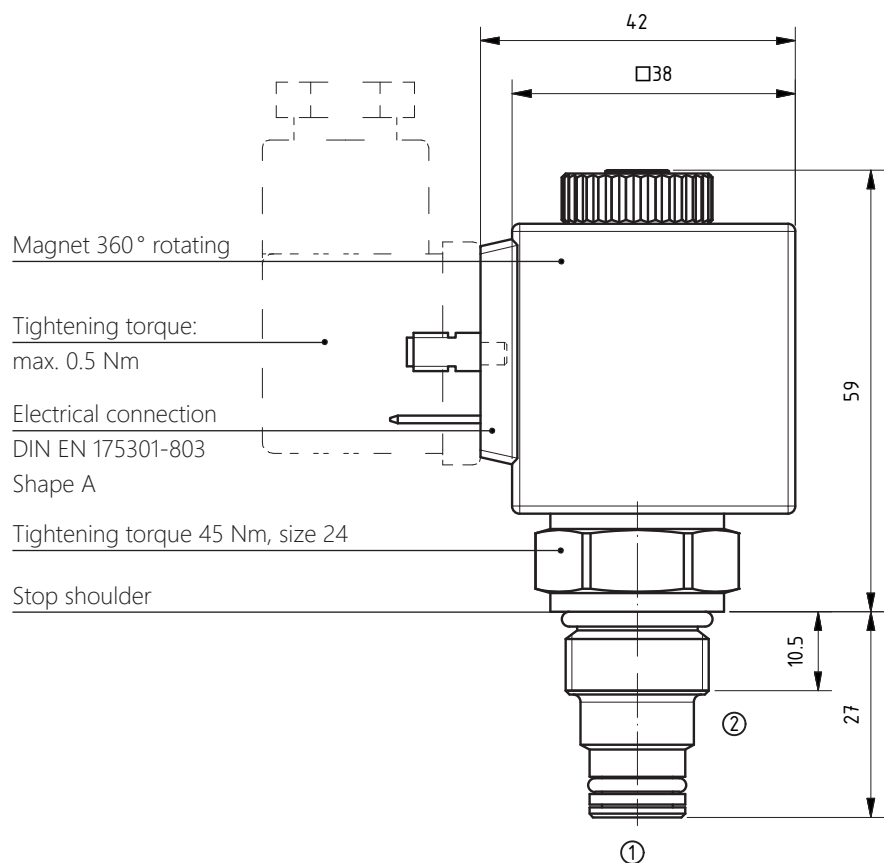


Measurement
conditions

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

Dimensions

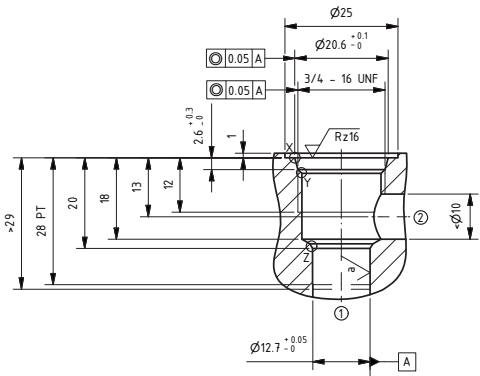
Screw-in valve MSVT



HM4/07 13 04

Dimensions

MSVT (SAE08)



NOTE A detailed drawing of the cavity is provided in section 11, “General information” at www.weber-hydraulik.com.

Type code

MSVT

2/2-way poppet valve

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

Rated voltage	
12 V	12 V DC
24 V	24 V DC

Standard program

Accessories and further information

<i>Accessories/spare parts</i>	Article:	Article number:
	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, " General information " in the " General Operating Manual " category or on request.	