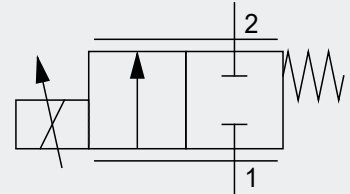


Proportional throttle valve PVDE_2-11



Directly operated, electrically actuated
Max. operating pressure 350 bar
Rated flow rate up to 21 l/min
Cavity PVDE2-11
or cavity T-13A



040110_PVDE_2-11
12.2025

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Characteristics

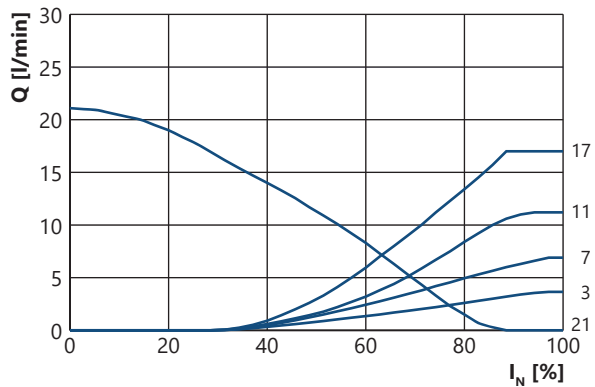
- Proportional 2/2-way throttle valve
- Normally open or normally closed models
- Slip-in valve for cavity PVDE2-11
- Or screw-in valve for cavity T-13A
- Maintenance-free

Technical data

<i>Hydraulic characteristics</i>	Max operating pressure:	350 bar, differential pressure control Δp max. 25 bar
	Rated flow rate:	3, 7, 11, 17, 21 l/min at differential pressure control $\Delta p = 10$ bar
	Performance limit:	Max. nominal flow rate also at a higher differential pressure control Δp
	Flow direction:	1 to 2 (2 to 1 not permitted)
	Operating fluids:	Mineral oils according to DIN 51524, others on request
	Viscosity range:	10 - 350 cSt
	Filtration:	Oil purity according to ISO 4406 (1999) 18/16/13, filter with $\beta_{5(c)} > 200$
	Repeatability:	< 3 % with optimized PMW-signal*
	Hysteresis:	< 5 % with optimized PMW-signal*
	* at 20 % to 100 % of the rated solenoid current	
<i>Mechanical characteristics</i>	Design:	PVDE slip-in design, PVDR piping installation or PVDES screw-in design, directly operated
	Size:	11
	Fluid temperature:	-20 °C to +65 °C
	Ambient temperature:	-20 °C to +50 °C
	Storage temperature:	-30 °C to +60 °C (non-condensing)
	Installation position:	Any
	Permissible acceleration:	3 g
	Weight:	PVDE2-11: 0.61 kg, PVDR2-11: 1.27 kg, PVDES2-11: 0.72 kg
	Materials:	Valve parts and casing: Steel Seals: NBR, optional Viton
<i>Electrical characteristics</i>	Surface protection:	Exterior parts: Galvanized steel
	Rated voltage:	12 V DC, 24 V DC
	Rated solenoid current:	1.7 A (12 V), 0.7 A (24 V)
	Rated resistance (R20):	4 Ω (12 V), 25 Ω (24 V)
	Power consumption:	16 W at rated solenoid current
	Power-on time:	100 % PO
	Control command:	PWM signal
	PWM frequency:	Typically 140 Hz (depending on the application)
	Protection class:	IP65 with a correctly installed wiring box
	Electrical connection:	Device plug in accordance with DIN EN 175301-803 shape A, AMP Junior Timer or unterminated wire
	Control units:	See the <i>“Electronics and Sensors”</i> section at www.weber-hydraulik.com .

Characteristic curves

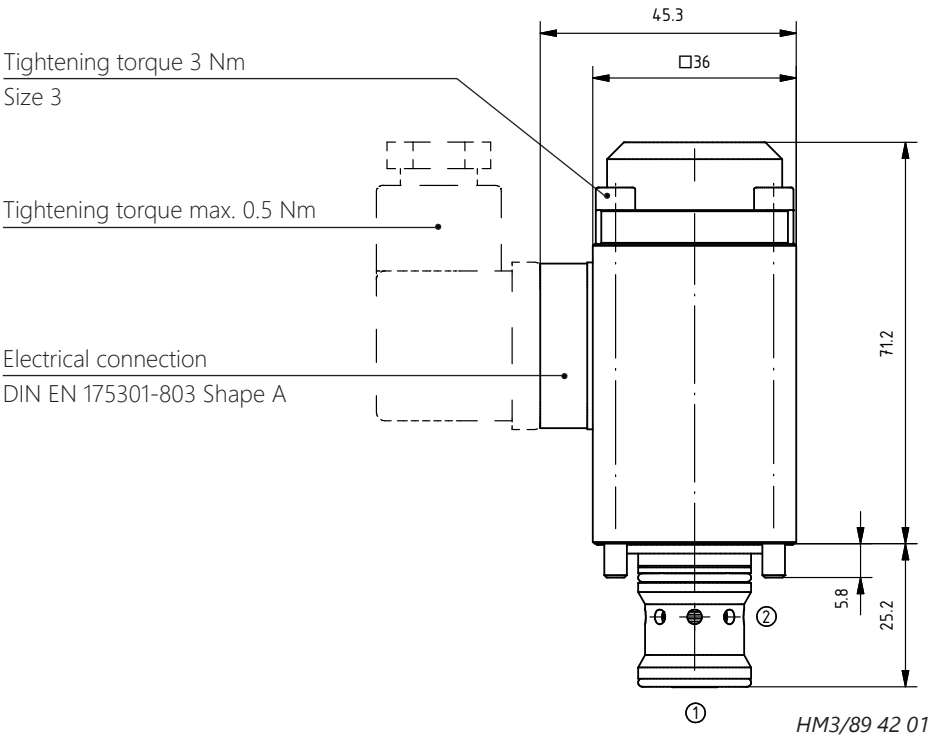
Flow rate diagram (Q/I) PVDE2-11 at $\Delta p = 10$ bar



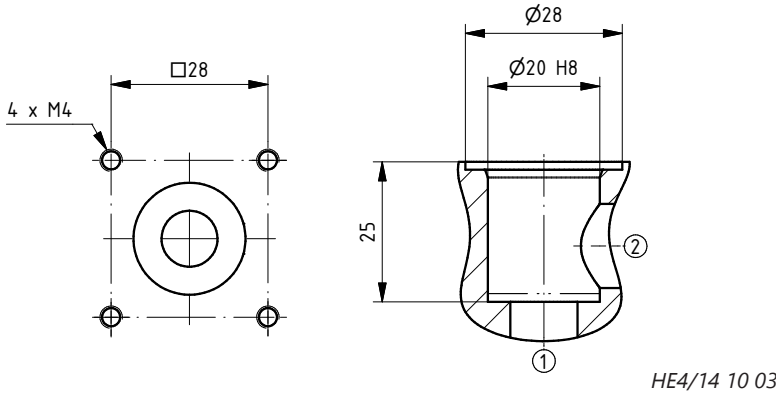
Measurement conditions Oil: HLP 32, temperature: 40 °C (~32 cSt).
Higher viscosities change the characteristic curves.

Dimensions

Slip-in valve
PVDE2-11



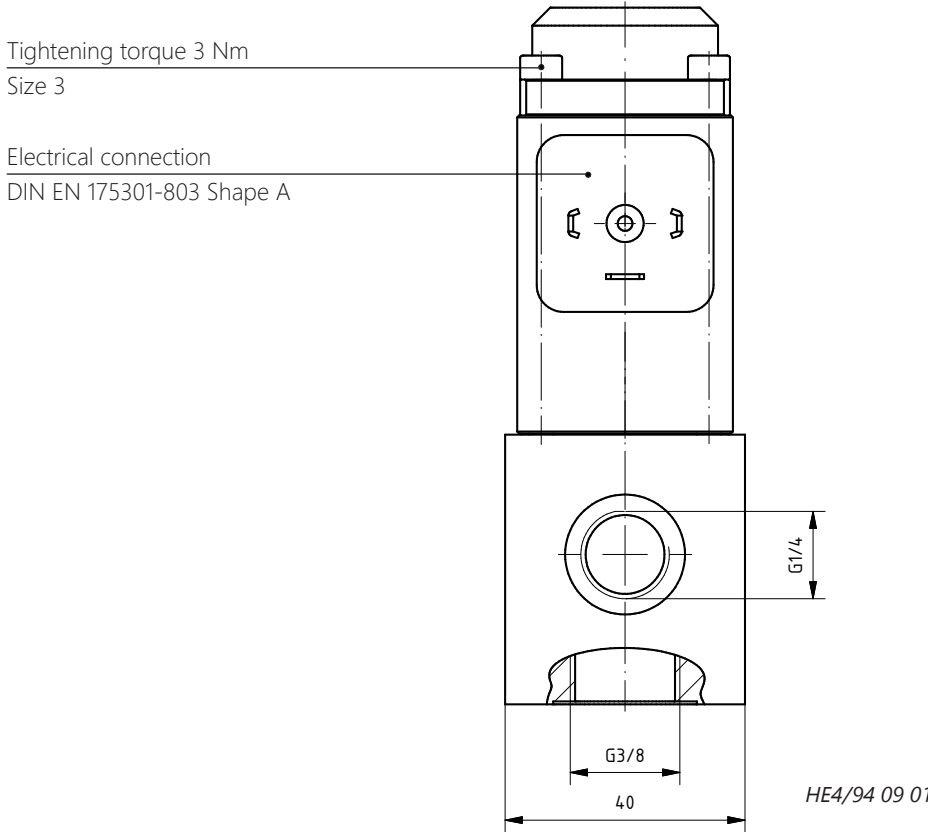
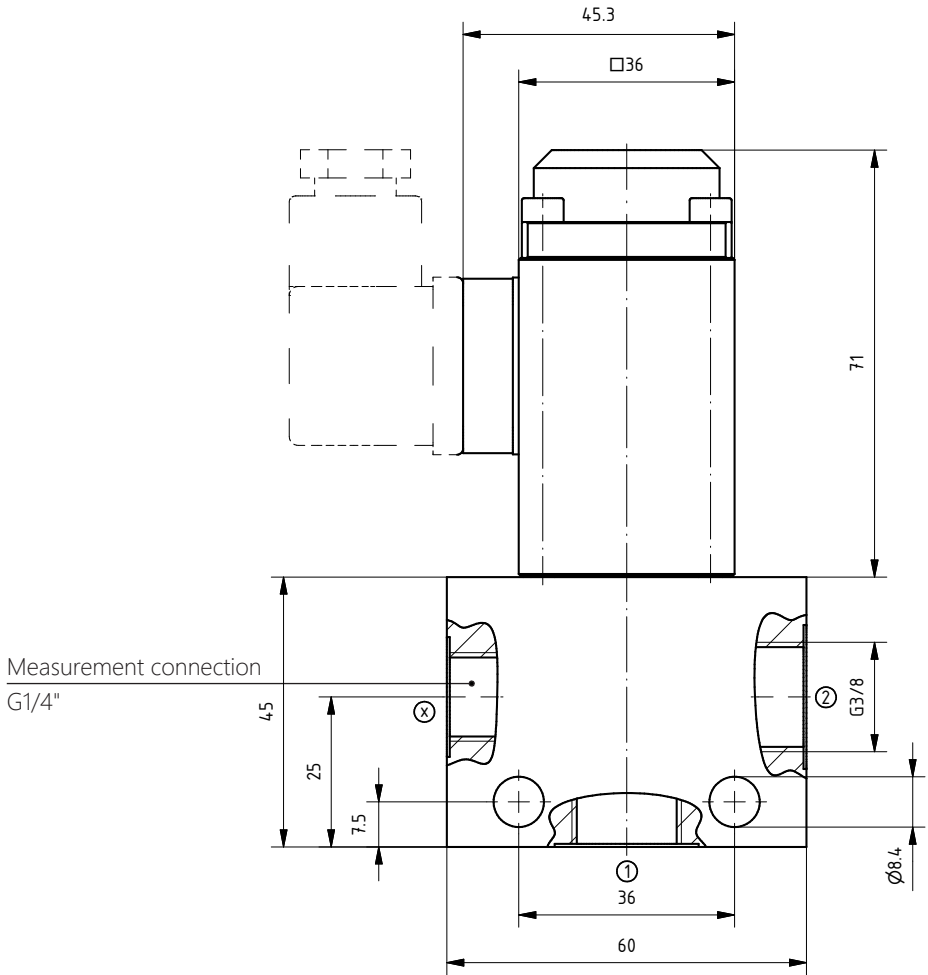
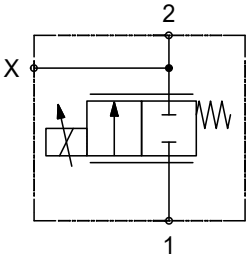
Cavity
PVDE2-11



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

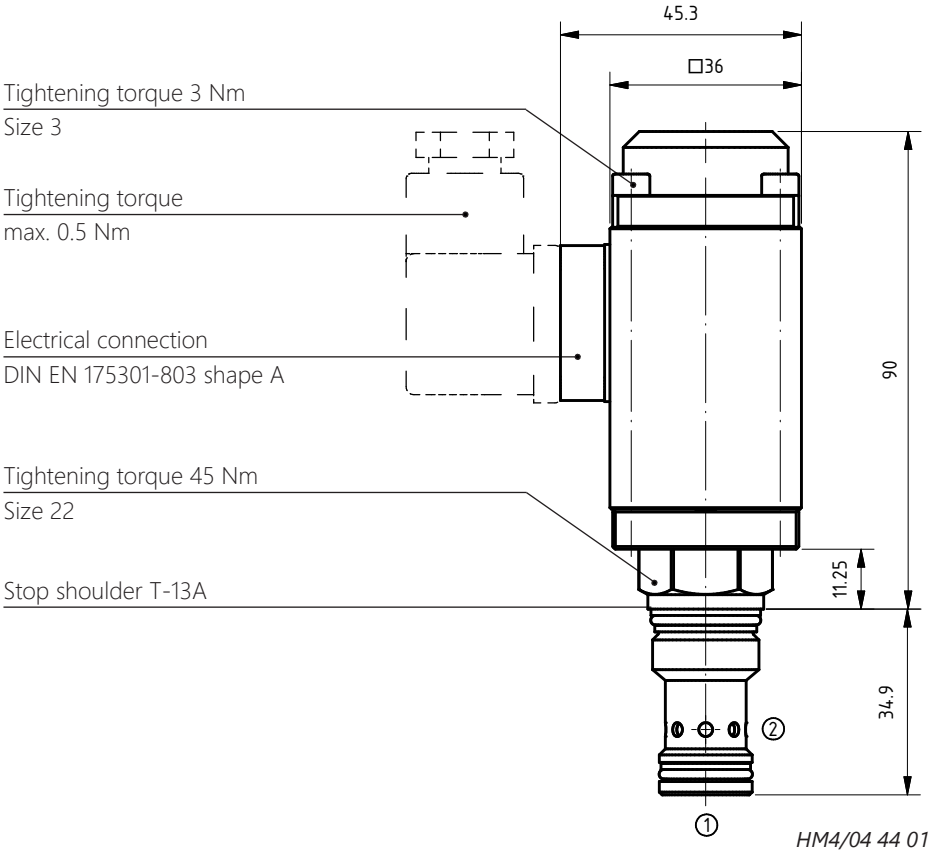
Dimensions

Slip-in valve in the
piping casing G3/8"
PVDR2-11

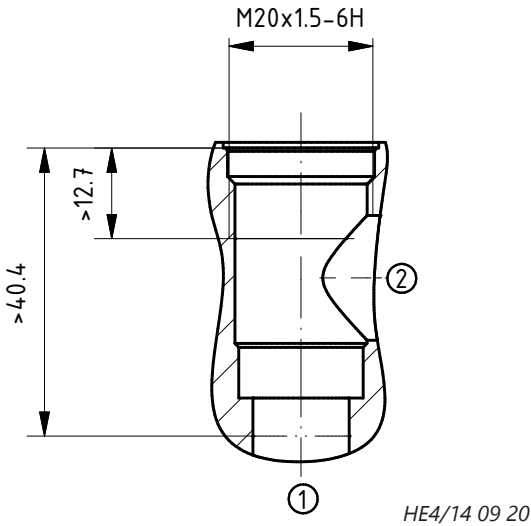


Dimensions

Screw-in valve
PVDES2-11



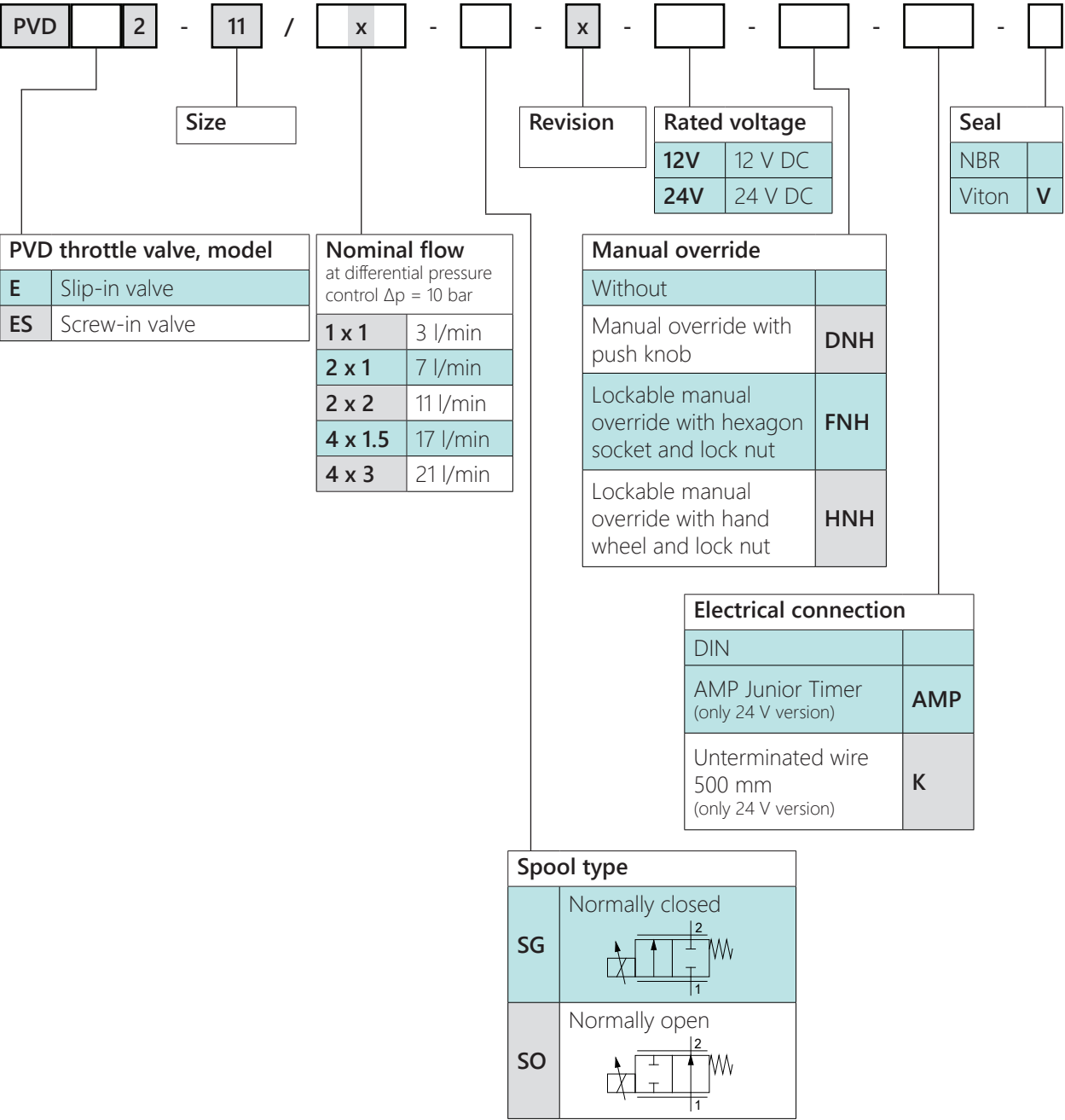
Cavity
T-13A



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

NOTE Suitable casings for T-13A are available on request.

Type code



Standard program

Accessories and further information

<i>Accessories/spare parts</i>	Article:	Material number:
	Socket connector DIN EN 175301-803, shape A, black	149.0007
	Seal kit PVDE2-11 (NBR)	405.0020
	Seal kit PVDE2-11 (Viton)	405.0068
	Seal kit T-13A (NBR)	405.0013
	Seal kit T-13A (Viton)	405.0037
	Other manual override variants or electrical connections are available on request	

NOTE For appropriate electronic controllers, see the *"Electronics and Sensors"* section at www.weber-hydraulik.com.

Operating manual Information regarding assembly, commissioning and maintenance is available in the *"General information"* section in the *"General Operating Manual"* category or on request.