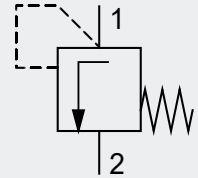


Pressure relief valve DBT



Directly operated
Max. operating pressure 350 bar
Max. flow rate up to 50 l/min



090110_DBT
02.2026

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Characteristics

- Screw-in pressure relief valve
- Also available in piping casing or intermediate plate
- Compact design
- Maintenance-free

Technical data

Hydraulic characteristics

Max operating pressure:	350 bar
Max. tank pressure:	DBT1: 350 bar, DBT2 and DBT3: 70 bar
Rated flow rate:	See type code
Flow direction	1 (P) to 2 (T)
Pressure setting range:	See type code
Operating fluids:	Mineral oils according to DIN 51524, others on request
Viscosity range:	7.4 - 420 cSt
Filtration:	Oil purity according to ISO 4406 (1999) 18/16/13, filter with $\beta_{5(c)} > 200$

NOTE

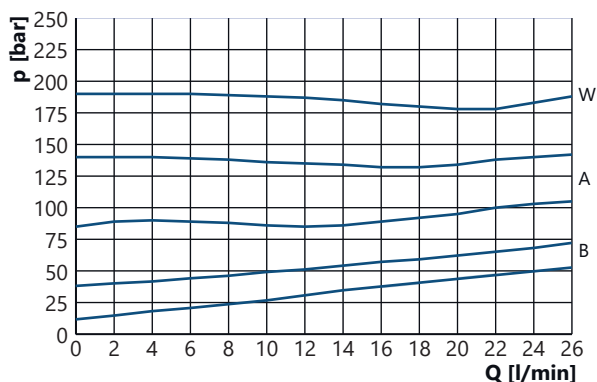
The pressure at connection 2 (T) is added directly to the set value. The total pressure of connection 1 (P) and 2 (T) must not exceed the permissible maximum operating pressure.

Mechanical characteristics

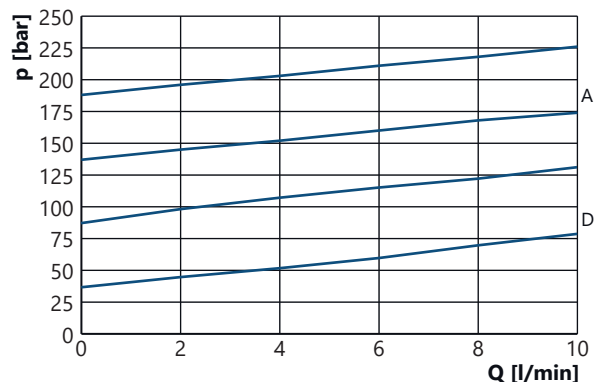
Design:	Screw-in valve
Fluid temperature:	-30 °C to +80 °C
Ambient temperature:	-30 °C to +80 °C
Storage temperature:	-30 °C to +60 °C (non-condensing)
Installation position:	Any
Weight:	DBT1, DBT3: 0.14 kg DBT2: 0.10 kg
Materials:	Valve parts: Steel Seals: NBR, backup rings: PU, Teflon
Surface protection:	Galvanized

Characteristic curves

Pressure characteristic curve (p/Q) DBT1 and DBT3



Pressure characteristic curve (p/Q) DBT2



Measurement conditions

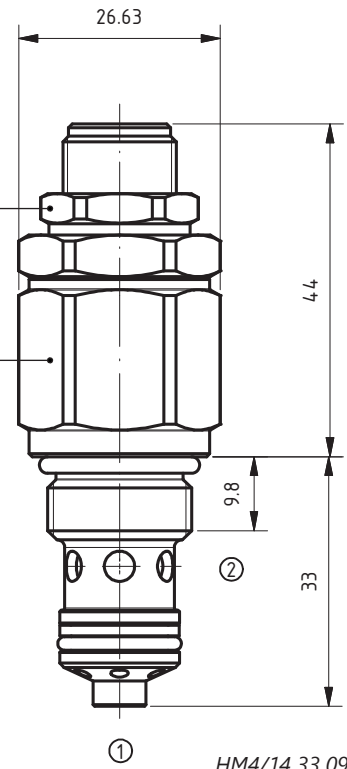
Oil: HLP 32, temperature: 40 °C (~32 cSt).
Higher viscosities change the characteristic curves.

Dimensions

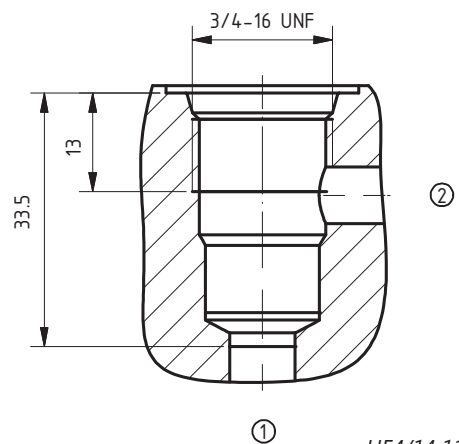
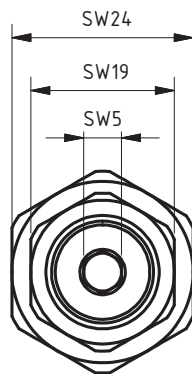
Screw-in valve DBT1

Tightening torque 18 - 22 Nm,
size 19

Tightening torque 40 - 45 Nm,
size 24



Cavity DBT

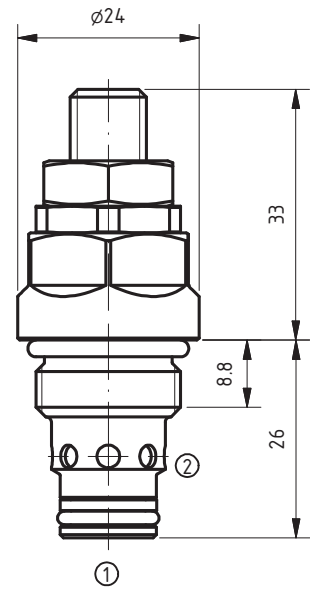


NOTE A detailed drawing of the cavity is provided in section 11, "**General information**" at www.weber-hydraulik.com.

NOTE The valve is also available in a piping casing. Dimension sheets are available upon request.

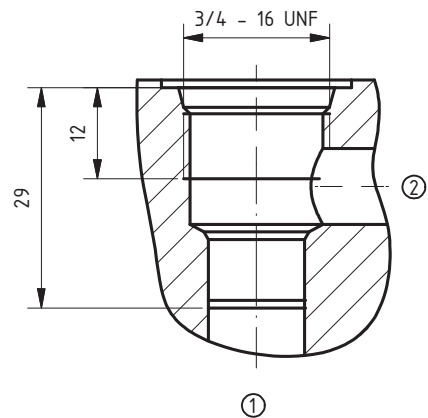
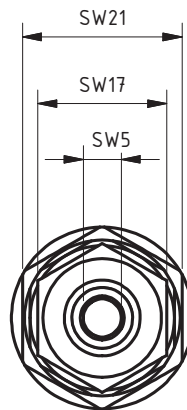
Dimensions

Screw-in valve DBT2



HM4/14 33 08

Cavity DBT2 (STO)



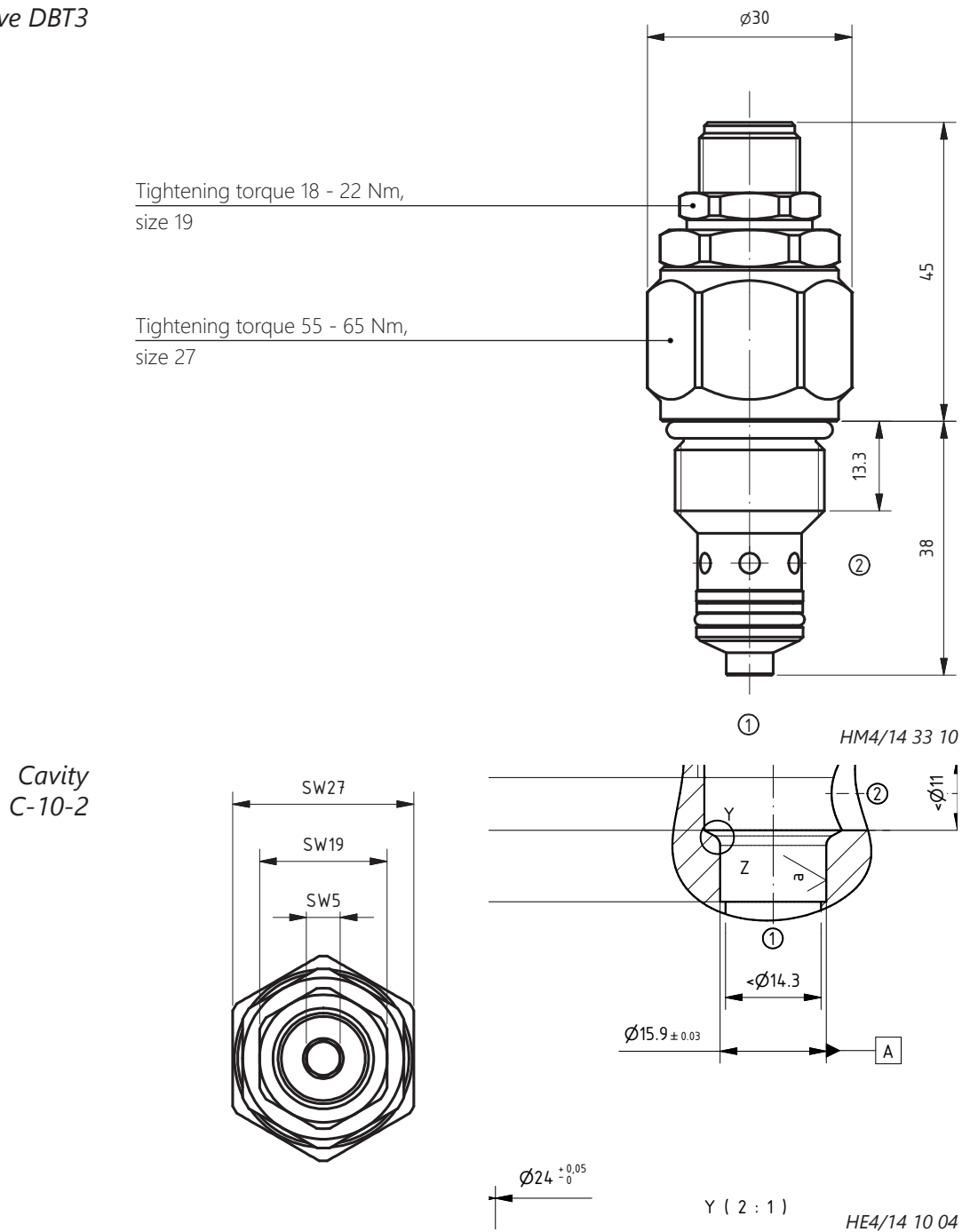
HM4/14 33 08

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

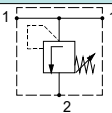
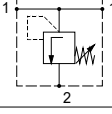
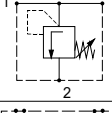
NOTE The valve is also available in a piping casing. Dimension sheets are available upon request.

Dimensions

Screw-in valve DBT3



Type code

DBT1	-	L		N	-	
Pressure relief valve max. 25 l/min		Setting screw with lock nut		Seal NBR		
		Pressure setting range		Symbol image	Casing	
		20-130 bar	B		Without	
		40-180 bar	A		Piping casing G 3/8	RG3
		180-350 bar	W			
DBT2	-	L		N	-	
Pressure relief valve max. 10 l/min		Setting screw with lock nut		Seal NBR		
		Pressure setting range		Symbol image	Casing	
		10-60 bar	D		Without	
		40-270 bar	A		Piping casing G 3/8	9702
DBT3	-	L		N	-	
Pressure relief valve max. 50 l/min		Setting screw with lock nut		Seal NBR		
		Pressure setting range		Symbol image	Casing	
		40-200 bar	A		Piping casing G 3/8	RG2
		180-350 bar	W		Intermediate plate NG 6	ZW6

NOTE

The pressure set value can be preset according to customer request. To do so, please contact our customer service anfrage.dekw@weber-hydraulik.com.

Accessories and further information

<i>Accessories/ spare parts</i>	Article:	Material number:
	Seal kit DBT1 (NBR)	407.0003
	Seal kit DBT3 (NBR)	407.0007

Operating manual Information regarding assembly, commissioning and maintenance is available in section 11, ***“General information”*** in the ***“General Operating Manual”*** category or on request.