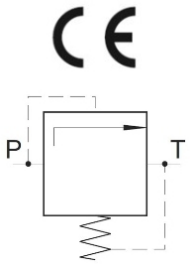
Pressure-limiting valve with EC type examination type VDB (size 8 and 10)

Operating pressure p_{max}	**350 bar**
Volume flow V_{max}	**120 l/min**





Product characteristics

Features and advantages

- Valve for limitation of system pressure
- Screw-in cartridge, directly operated
- Pressure limitation set up in factory and valve lead sealed
- Type examination certificate according to 2014/68/EU (pressure equipment directive)
- Approved as safety valve category IV (module B and D) according 2014/68/EU (pressure equipment directive)
- TÜV-component identification TÜV.SV.25-648.5.F.G.p (VDBE08), TÜV.SV.25-649.5.F.G.p (VDBE10)
- CE mark
- Suitable for pressure holding function
- Option with hand wheel allows ventilation, so that the safety valve can be checked for proper funtion

Table of Contents

Technical data 2
Characteristic lines 3
Dimensions and connections 4
Order information 6

Technical data

General

Weight	BE08: 0.4 kg BE10: 0.7 kg
Ambient temperature	-20 to +50°C
Installation position	any

Hydraulic parameters

Hydraulic fluid: mineral oil according to DIN 51524, other media on request

Pressure setting range: see characteristic lines and order information

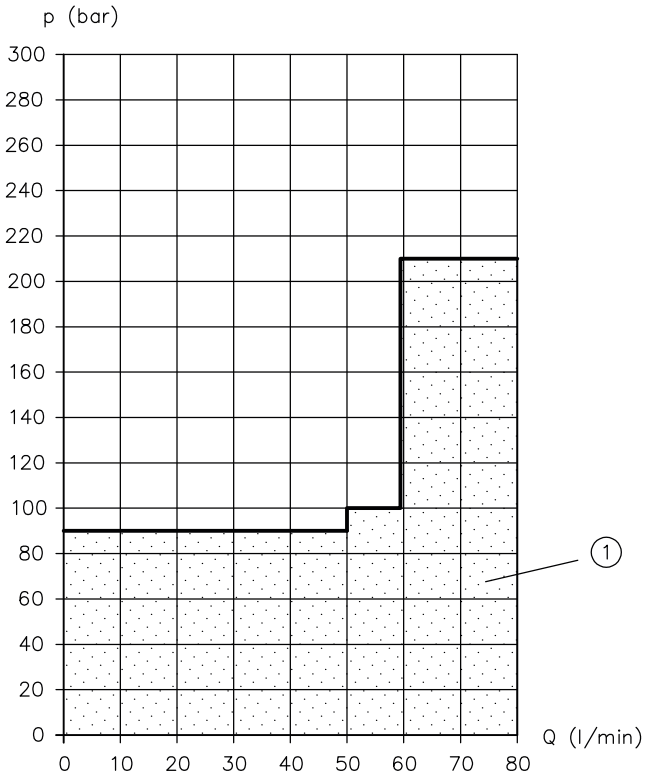
Response pressure	BE08: 90-350 bar BE10: 150-350 bar
Max. operating pressure	1.1x response pressure
Max. counter-pressure (tank pressure)	15% of the response pressure
Max. flow rate	BE08: 80 l/min BE10: 120 l/min
Hydraulic fluid temperature	-20 to +80°C
Viscosity	10-250 mm²/s
Permissible degree of contamination	max. class 20/18/15 according to ISO 4406
Filter recommendation	Filter retention rate $\beta_{25} > 75$

Characteristic lines

Measured at hydraulic fluid temperature of 50°C, viscosity 35 mm²/s, tolerance ±5%

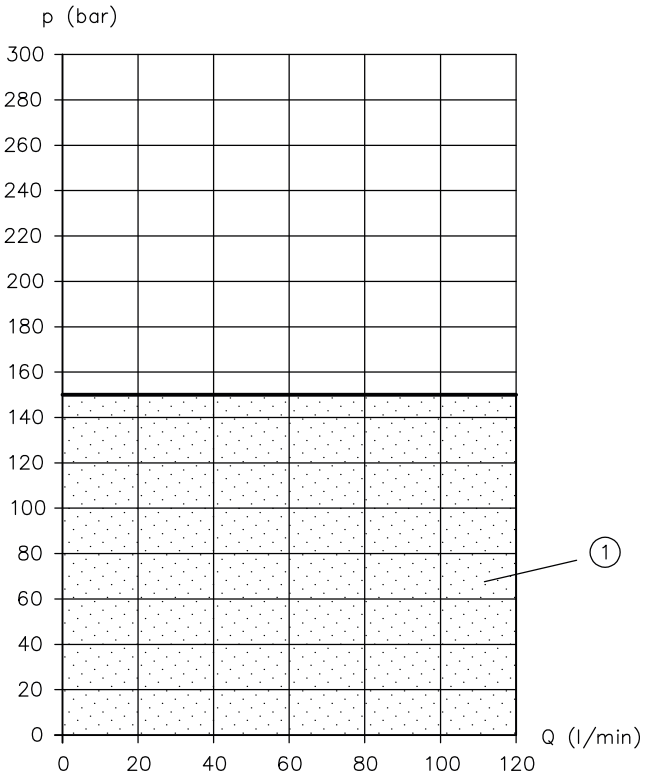
Application limit

VDBE08



Q flow rate (l/min); p inlet pressure (bar)

VDBE10



Q flow rate (l/min); p inlet pressure (bar)

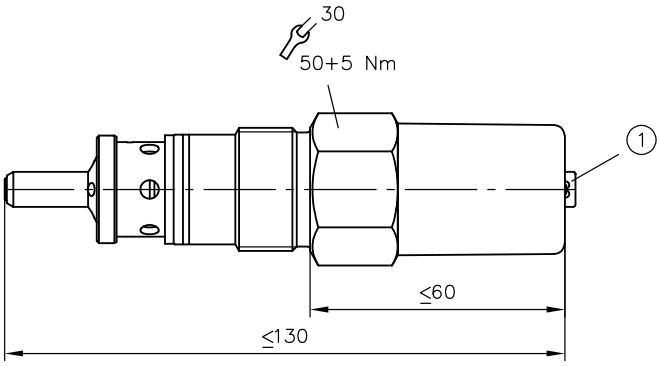
1 **ATTENTION:** Valves must not be used in this range.

Dimensions and connections

Dimensions are given in mm.

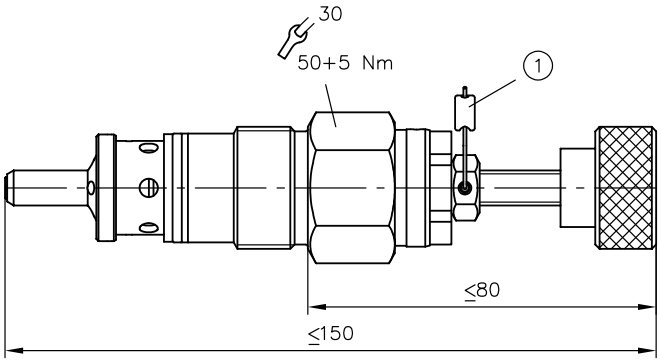
VDBE08

VDBE08E



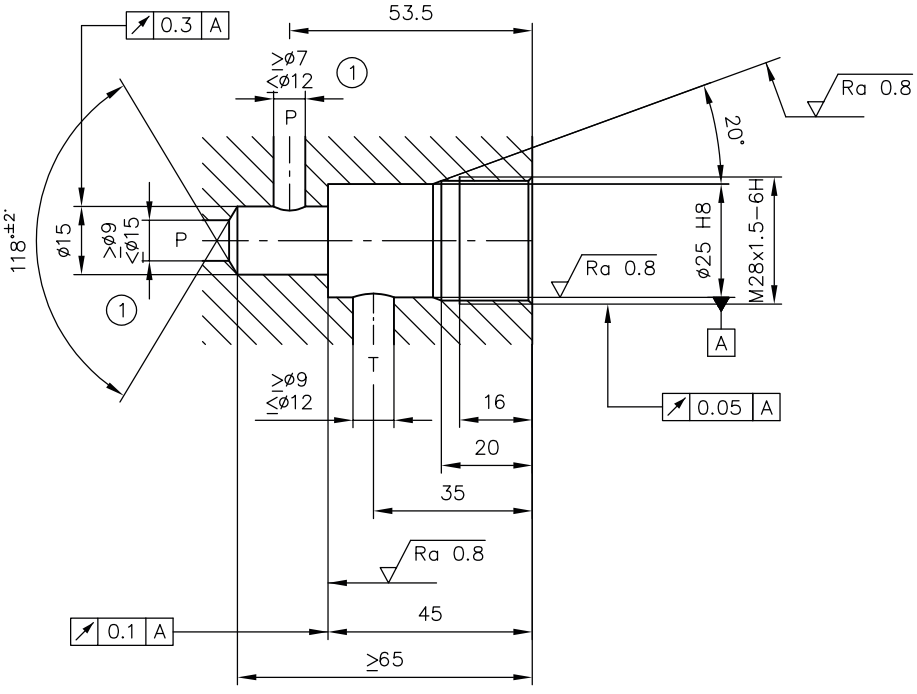
1 sealed

VDBE08EH



1 sealed

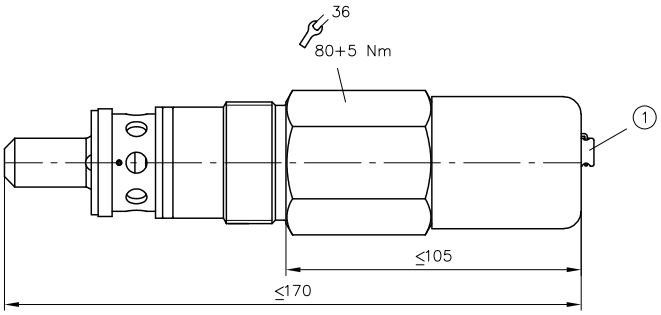
Mounting hole



1 axial or radial P hole can be provided

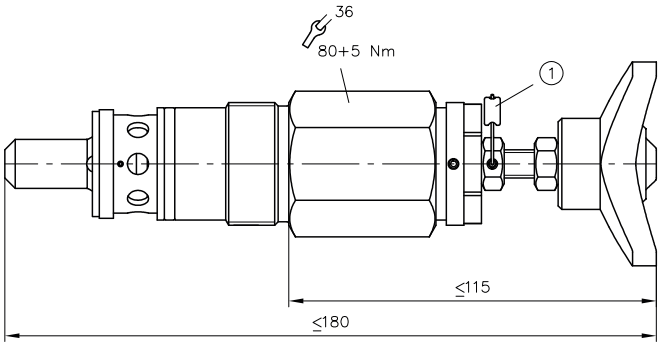
VDBE10

VDBE10E



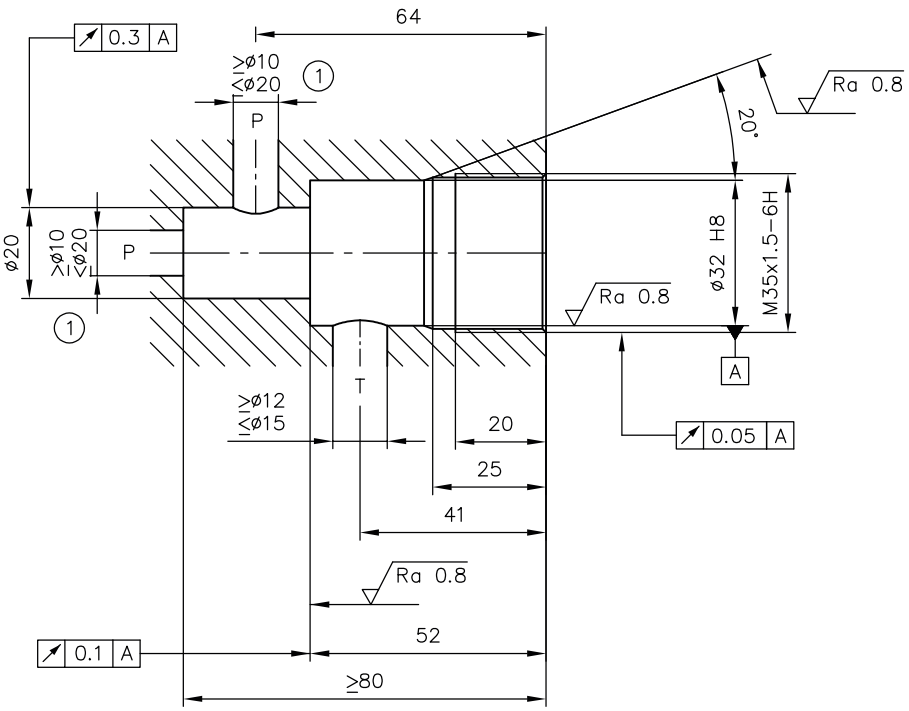
1 sealed

VDBE10EH



1 sealed

Mounting hole



1 axial or radial P hole can be provided

Order information

Type code

VDBE **08** **E** **210**

opening pressure [bar]

VDBE08	VDBE10
100	150
120	250
140	280
180	330
200	350
210	
250	
280	
300	
315	
330	
350	

adjustment possibility

- E: response pressure fixed and sealed
- EH: with handwheel, response pressure fixed and sealed, ventilation possible

size

- 08
- 10

see dimensions

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