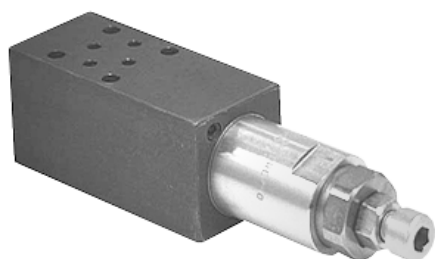


# Intermediate plates with pressure-limiting valve type VDB (size 4)

operating pressure $p_{\max}$	320 bar
volume flow $V_{\max}$	30 L/min



## Product characteristics

Pressure-limiting valves belong to the group of pressure valves. They protect against exceeding the maximum permissible system pressure or limit the working pressure.

- pressure limitation optionally in:
  - line A
  - line B
  - line P
  - line A and B
- adapted for mounting on hydraulic power packs type H3 and H4

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## Technical data

### General

type	seated valve, directly controlled
design	intermediate plate valve
weight	VDB1ZP04E_: 0.53 kg VDB2ZP04E_: 0.7 kg
ambient temperature	-30 to +50 °C
mounting position	arbitrary
connection size	ISO4401-02-01-0-05 (NG04)

### Hydraulic parameters

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

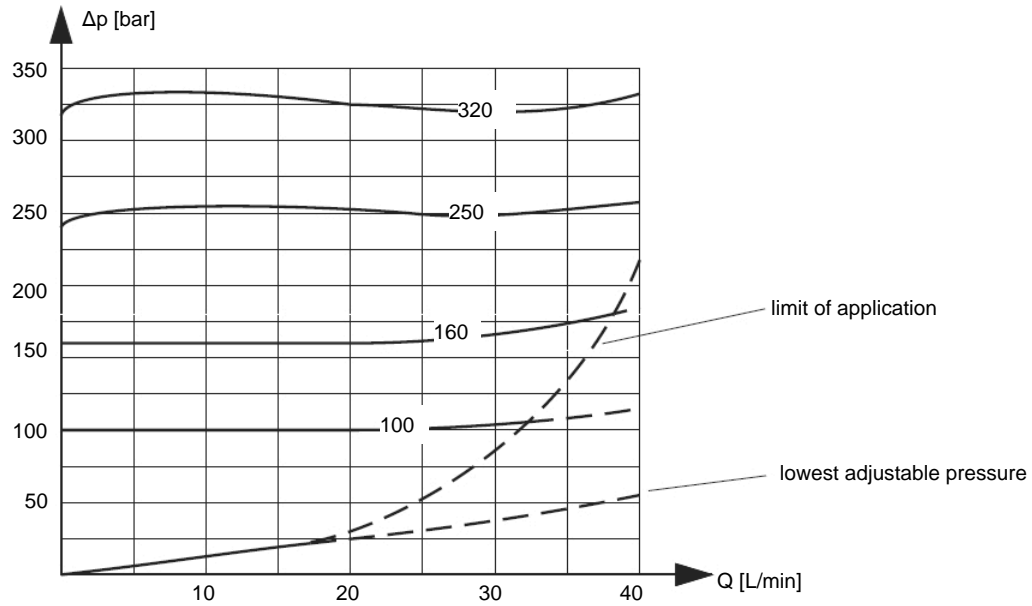
max. operating pressure	320 bar
max. volume flow	20 L/min
hydraulic fluid temperature	-25 to +70 °C
viscosity	10-600 mm <sup>2</sup> /s
permissible degree of pollution	max. class 22/19/16 according ISO 4406
filter recommendation	filter retention rate $\beta_{25} > 75$

### Actuation

actuation type	mechanical with hexagon key
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## Characteristic lines

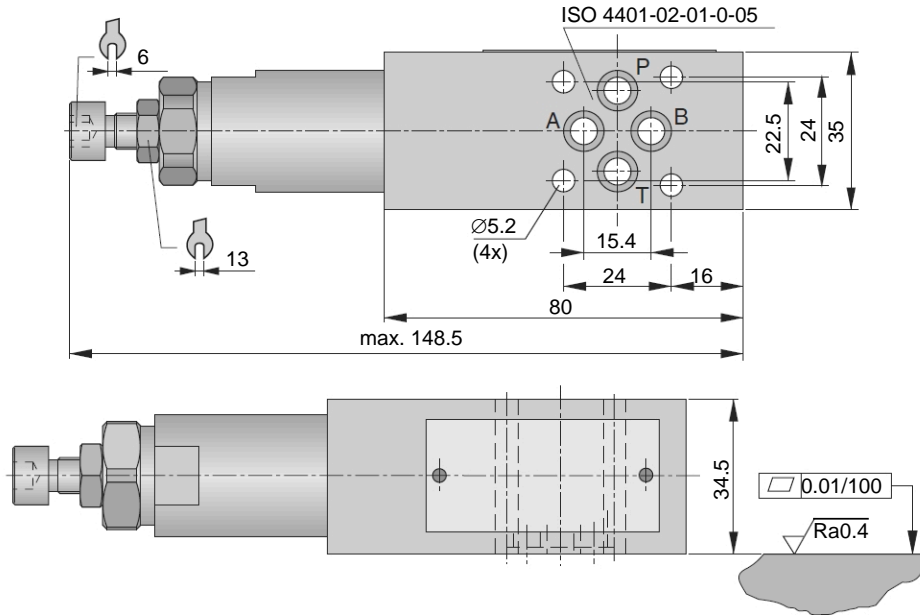
measured at +50 °C temperature of hydraulic fluid, viscosity 35 mm<sup>2</sup>/s, tolerance ±5 %



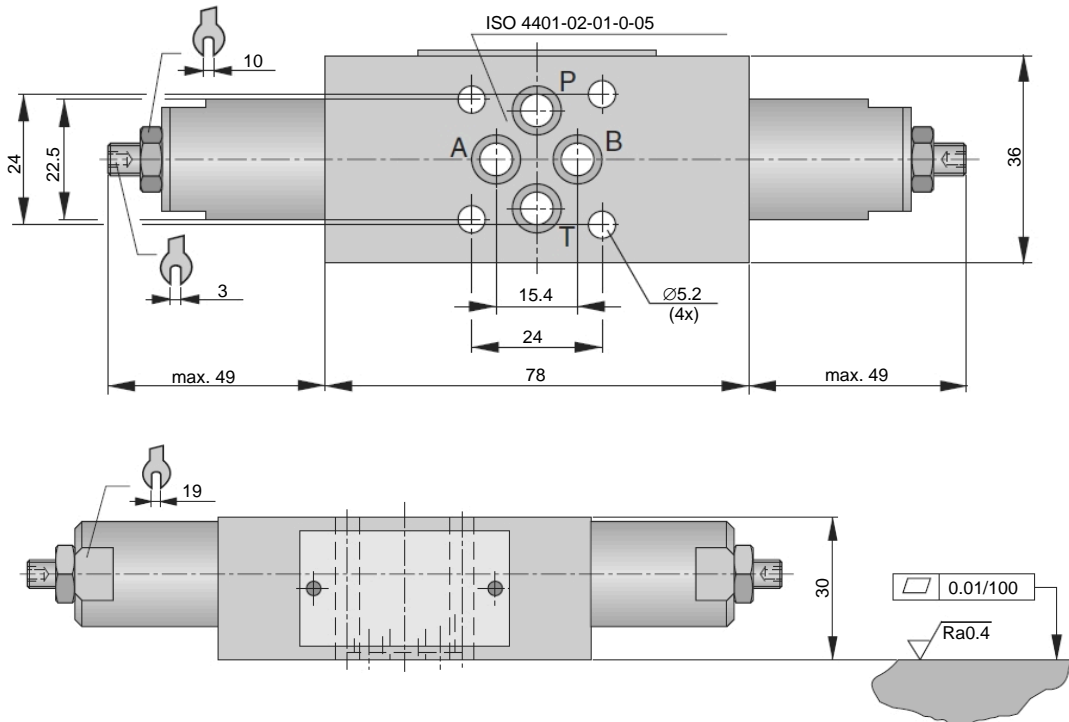
## Dimensions and connections

Dimensions are given in mm.

### VDB1ZP04E\_

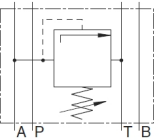
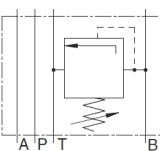
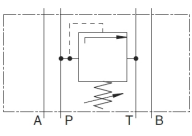
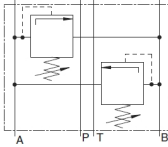


### VDB2ZP04E\_



## Order information

### Type code

<b>VDB</b>	<b>1</b>	<b>ZP04</b>	<b>E</b>	<b>250</b>	<b>B</b>	
						<p><b>pressure control in</b></p> <p><b>A</b>     A → T</p>  <p><b>B</b>     B → T</p>  <p><b>P</b>     P → T</p>  <p><b>AB</b>    A → B; B → A</p> 
						<p><b>pressure ranges</b></p> <p>100    max. 100 bar</p> <p>160    max. 160 bar</p> <p>250    max. 250 bar</p> <p>320    max. 320 bar</p>
						<p><b>setting type</b>    E    with hexagonal key</p>
						<p><b>size</b>            ZP04        hole pattern according ISO4401-02-01-0-05 (NG04)</p>
						<p><b>number of pressure limiting valves in housing</b></p> <p>VDB1    pressure-limiting valve in line A, line B, or line P</p> <p>VDB2    pressure-limiting valve in line A and line B</p>
<b>type</b>						intermediate plate for pressure-limiting valve

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