

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



operating pressure p_{max}	420 bar
volume flow V_{max}	120 lpm



Product characteristics

Pressure-limiting valves are a type of pressure control valve. They safeguard the system against excessive system pressure or limit the operation pressure.

Features and advantages

- Pressure-limiting valve: available in 6 pressure levels, pressure adjustable within each pressure range
- Screw-in cartridge
- Seated valve, directly operated
- Suitable for pressure holding function
- Leakproof
- Setting type: hexagon key or hand wheel

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Technical data

General

weight	BE08: 0.4 kg
	BE10: 0.7 kg
ambient temperature	-30 to +50 °C
mounting position	arbitrary

Hydraulic parameters

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

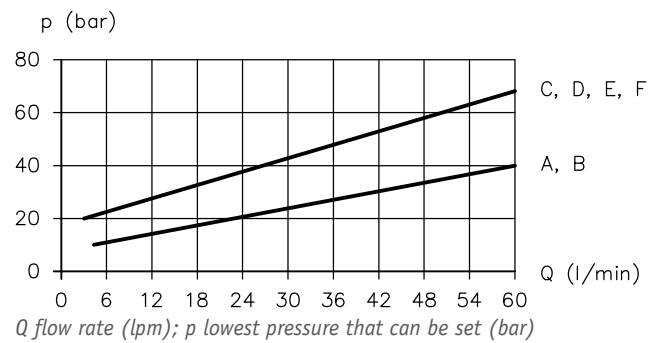
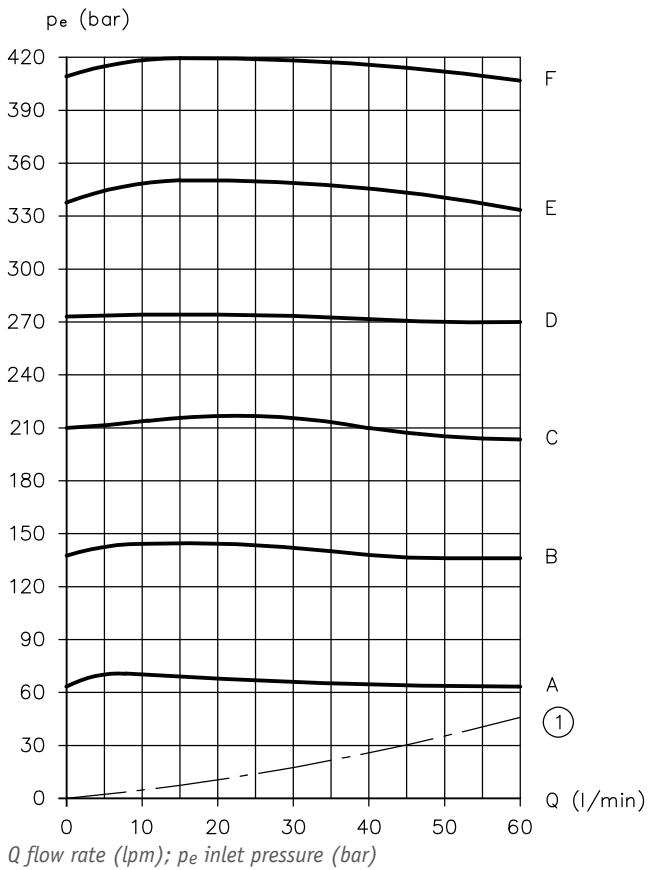
Pressure setting range: see characteristic lines and order information

max. operating pressure	BE08: 420 bar
	BE10: 350 bar
max. volume flow	BE08: 60 lpm
	BE10: 120 lpm
temperature hydraulic fluid	-25 to +70 °C
viscosity	10-600 mm ² /s
permissible degree of pollution	max. class 20/18/15 according ISO 4406
filter recommendation	filter retention rate $\beta_{25} > 75$

Characteristic lines

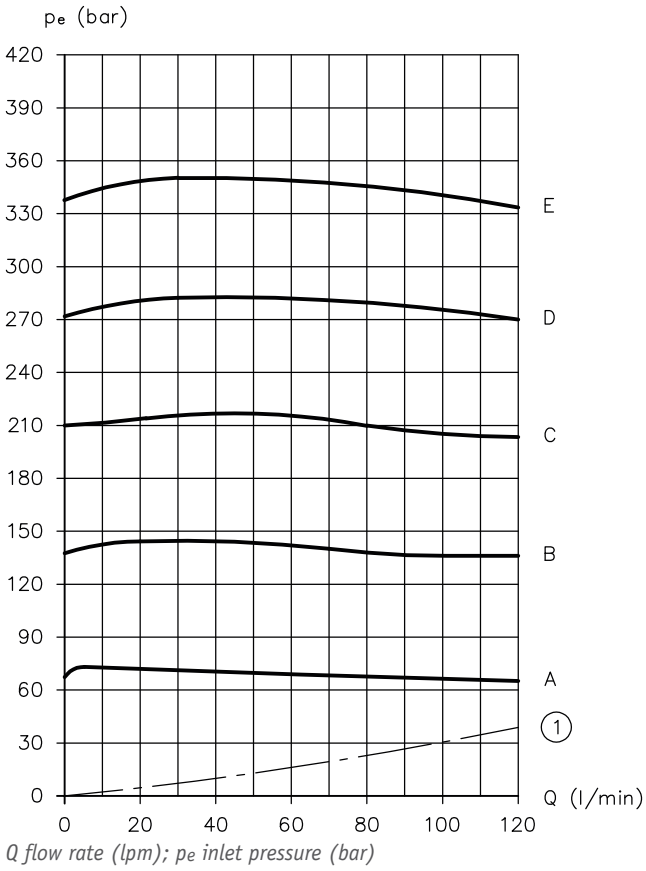
measured at 50 °C temperature of hydraulic fluid, viscosity 35 mm²/s, tolerance ±5 %

VDBE08

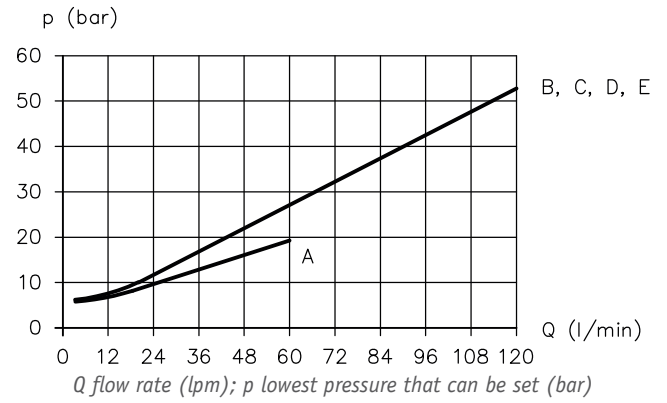


1 recommended application limit

VDBE10



1 recommended application limit



Order information

Type code

VDBE	08	E	D
			<p>pressure range up to...</p> <p>A 70 bar</p> <p>B 140 bar</p> <p>C 210 bar</p> <p>D 280 bar</p> <p>E 350 bar</p> <p>F* 420 bar</p> <p>*VDBE08 only</p>
			<p>adjustment possibility</p> <p>E: with hexagonal key</p> <p>H: with handwheel</p>
	<p>size</p> <p>08</p> <p>10</p>		<p>see dimensions</p>
type	pressure-limiting valve		

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