

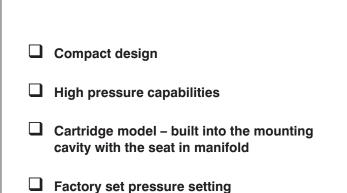
Combined Relief-Check Valves

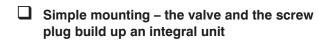
DBV2-420

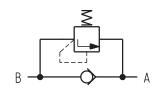
HA 5092 11/2010

Replaces HA 5092 04/2008

Size 10 • 420 bar (6092 PSI) • 200 L/min (52.84 GPM)







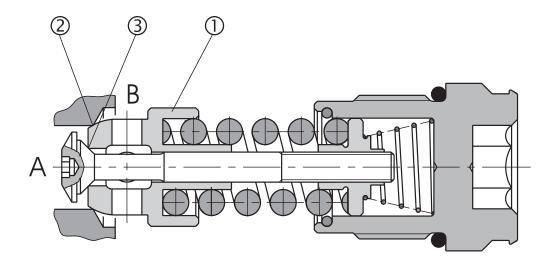


Functional Description

The high-pressure relief-check valve DBV2-420 is delivered as a cartridge unit without bushing, i.e. for direct mounting into the cavity with the seat machined directly in the manifold. In the direction A-B the fluid passes freely through the check valve (1). The direction B-A is closed by main seat (2) and as the pressure

increases above the factory set value the fluid is drained through the seat of the main cone (3). The adjusted pressure is defined as the pressure, which is necessary to open the relief valve at the flow rate 20 L/min (5.28 GPM).

The valve is delivered without any surface treatment.



Ordering Code

DBV2 - 420

Combined Relief-Check Valves

Pressure adjusted pressure 420 bar (6092 PSI)

unrestricted

	10
L/min (GPM)	200 (52.84)
bar (PSI)	420+15 (6091+218)
bar (PSI)	see the characteristics
	Hydraulic oils of power classes (HL, HLP) to DIN 51 524
°C (°F)	-30 +100 (-22 +212)
mm ² /s (SUS)	20 400 (97.3 1840)
	Class 21/18/15 to ISO 4406
kg (lbs)	0,138 (0.300)
	bar (PSI) bar (PSI) °C (°F) mm²/s (SUS)

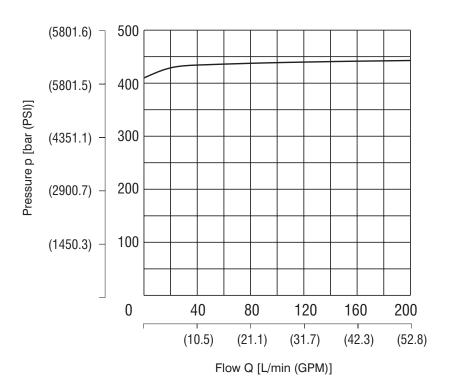
Mounting position

p-Q Characteristics

Measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Pressure Relief Valve, flow direction $\textbf{B} \rightarrow \textbf{A}$

Static characteristic

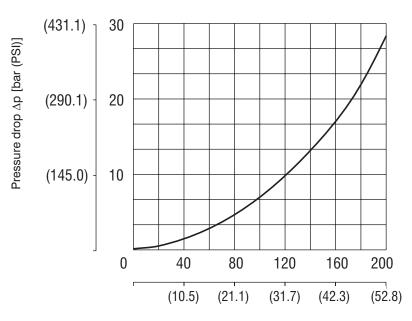


△p-Q Characteristics

Measured at $v = 32 \text{ mm}^2/\text{s} (156 \text{ SUS})$

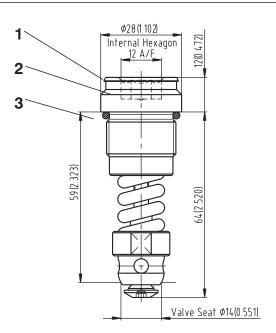
Check Valve, flow direction $A \rightarrow B$

Pressure drop of the check valve alone, measure at test manifold.



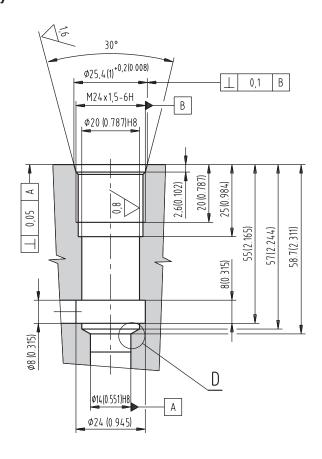
Valve Dimensions

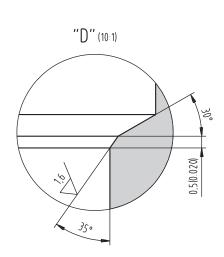
Dimensions in millimeters and inches



- 1 Nominal pressure
- 2 Inside hexagon for valve mounting into the cavity Tightening torque 50 +10 Nm (36.97 + 7.37 ft-lbs)
- 3 Seals: O-Ring 20.35 x 1.78 (supplied with valve)

Cavity





Caution!

- The packing foil is recyclable.
- The technical information regarding the product presented in this catalogue is for descriptive purposes only. It should not be construed in any case as a guaranteed representation of the product properties in the sense of the law.

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