

DBV 20



Vacuum safety valve

- Medium : inert gases / rare gases / O2 / CO2 / air, other media on request
- This value is suitable for high-pressure oxygen service
- Pressure sensor ports available
- Approval : CTE

The valve type DBV 20 is a vacuum safety valve. This valve has been specifically designed to protect the vacuum unit against pressure strokes. The valve opens (depending on version) at 0,015 / 0,02 / or 0,05 bar relative pressure.

Technical data

- Pressure range
- Standard connection A
- Standard connection B
- Standard connection C
- Nominal diameter
- Media temperature
- Ambient temperature
- Vacuum leak rate
- Opening
- Flow direction
- Sensor Port Connection
- Weight

PN 420 SW 1/2", SW 3/4" KF40 small flange Pipe connection Ø42,4 x 2 (butt welding) DN 20 from -40 °C to +80 °C from -40 °C to +60 °C 1,0⁻⁴ mbar l/s at 0,015 / 0,02 / 0,05 bar relative pressure A > B at Normal operation, Vacuum / A > C at overpressure, safety function G 1/4 7,65 kg (Connection adapter included)

Material specification



Function without or with RDK 40



Execution

Without spring: Vertical mounting. Continuous operation of the vacuum pump.

With 1 spring: Vertical mounting. Continuous operation of the vacuum pump. Valve moves back to the normal position when slight pressure strokes occure during the process.

With 2 springs: For any mounting position (overhead). Continuous operation of the vacuum pump. Valve moves back to the normal position when slight pressure strokes occure during the process.

Options with this valve type

Connection types

Gas inlet: connection A, welding end (stainless steel, Monel) : SW 1/2", SW 3/4"

Vacuum suction pipe: connection B, welding end (stainless steel) : KF40 small flange

Venting line: connection C, welding end (Stainless Steel, Brass): BW 1 1/4", (pipe connection Ø42.4 x 2 (butt welding))

- Sensor Port Connection G 1/4 pressure acquisition / measurement
- Installation of residual pressure valve. This option allows residual pressure to escape from the valve body, avoiding to damage the pump during a pressure surge.
- Other options on request

Dimensions



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*Depending on the length of the exhaust air duct and bends