

SHOCK ABSORBER SPECIFICATION FORM (sheet 1/2)

(Subject to technical modifications, **mandatory field**)

| | | | |
|-------------------|----------------------|---------------|--|
| Company: | <input type="text"/> | Location: | <input type="text"/> |
| Name, First name: | <input type="text"/> | Project name: | <input type="text"/> |
| E-mail: | <input type="text"/> | Requirement: | <input type="text"/> pieces/year |
| Telephone no.: | <input type="text"/> | as | <input type="checkbox"/> spare part <input type="checkbox"/> original equipment |

Accumulator type

- Bladder accumulator
- Piston accumulator
- Diaphragm accumulator
- Metal bellows accumulator
- _____

Accumulator data

Max. operating pressure
 bar

Min. operating pressure
 bar

Pre-charge pressure at 20 °C (nitrogen) ¹⁾
 bar

Ambient temperature
Min. °C Max. °C

Operating temperature of the accumulator
Min. °C Max. °C

Complete cycle time
 s

Materials ²⁾

Accumulator shell

Fluid port

Elastomer

Remarks:

Fluids/medium

Fluid

Density
 kg/m³

Viscosity at 20 °C
 cSt

Viscosity at operating temperature
 cSt

Additional information

Installation dimensions (height x Øa)
 mm

Fluid port
 Flange

Thread

Gas port
 M28x1.5 7/8-14UNF

Coating/finish
 internal

external

¹⁾ see catalogue section No. 3.000, section on dimensioning

²⁾ dependent on operating temperature and/or fluid resistance

Further information

Industry

Country of installation

Dimensioning/certification

Specification

Pump data

Zero head
 m

Pressure of the pump at the operating point
 bar

Flow rate of the pump at the operating point
 l/min

Cause of the pressure shock

When pump starts

When pump switches off

When check valves close

Pipeline data

Please provide pipeline data on the next page.

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SHOCK ABSORBER SPECIFICATION FORM (sheet 2/2)

(Subject to technical modifications, mandatory field)

General data on the pipeline

Material of line Total closing time of the valve s
 Max. permitted pressure of the line bar Speed of sound in the system m/s

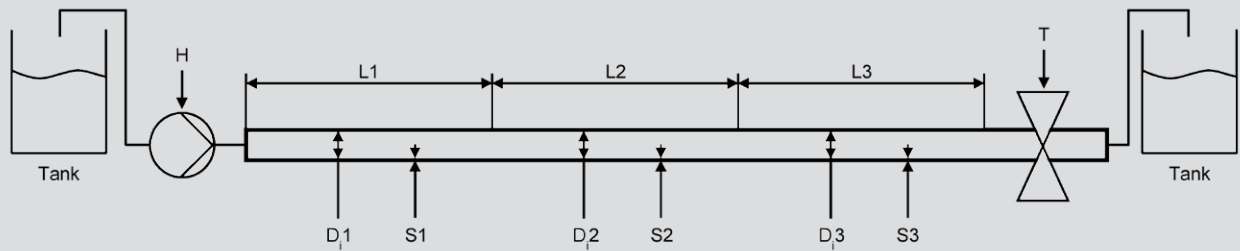
Information on pipeline sections

L = length of the pipeline [m]
 D_i = internal diameter of the pipeline [mm]
 S = wall thickness of pipeline [mm]
 H = zero head of the pump [m]
 T = closing time of the valve [s] (effectively roughly 30 % of the total closing time)

Number of different pipes _____

| | | | | | |
|--------------|---------------------|---------------|--------------|---------------------|---------------|
| L1 = _____ m | D_{i1} = _____ mm | S1 = _____ mm | L4 = _____ m | D_{i4} = _____ mm | S4 = _____ mm |
| L2 = _____ m | D_{i2} = _____ mm | S2 = _____ mm | L5 = _____ m | D_{i5} = _____ mm | S5 = _____ mm |
| L3 = _____ m | D_{i3} = _____ mm | S3 = _____ mm | L6 = _____ m | D_{i6} = _____ mm | S6 = _____ mm |

Example



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