ACLA-WERKE GMBH

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Technical Sheets 341.14 en

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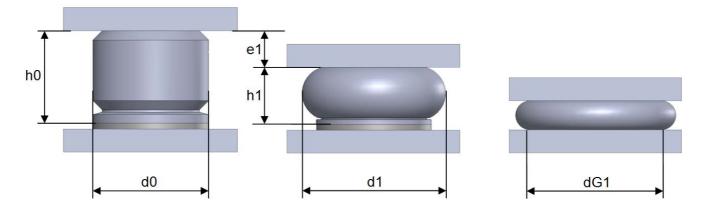
ACLA® Lift Buffers of AUTAN® HE Expansion and supporting surface during deflection

Buffer group 300401L...

300401L↓↓↓ 300401L elastic base: Ø100/36 x 80 mm, AUTAN® HE mounting type 1 = type A, round steel plate 3 mounting type 3 = type C, square steel plate foamed-in perforated plate 4 mounting type 4 = type D, mounting type 5 = type AD, 5 round steel plate plus additionally foamed-in perforated plate 6 mounting type 6 = type CD, square steel plate plus additionally foamed-in perforated plate

X X code for model details, no meaning for the EC type-test certificate

Considering a compression of the buffer from its initial diameter d0 and an elastic height h0 by a spring displacement e1 to the remaining height h1, the buffer will be expanded convexly to diameter d1. In case of a strong deformation the expanded area will rest on the counter-pressure plates on diameter dG1.



The following curve shows some values for the expanded buffer diameter and the diameter of the supporting surface depending from the deflection.

These are just reference values which may vary within the admissible diffusions depending on external conditions and preload of the buffer.

The deflection values acc. to lines ①②... correspond roughly with the values reached at the loads shown in the additional field of the curve.

This Technical Sheet has only orientating character and is just intended to support the lift constructor. It is not suitable for a quality control of the buffers.

Our verbal or written recommendations for any application as well as tests are carried out to the best of our knowledge. They are without engagement also as far as patent rights of third parties are concerned, and do not exempt you from checking the products supplied by us to their suitability for the intended procedure and purpose. Application, use and processing of the products are outside our control, and are exclusively the responsibility of the customer. Moreover our general sales conditions apply. This data sheet replaces all previous sheets. As it is not subject to any updating service the user has to check for relevance, whenever necessary.

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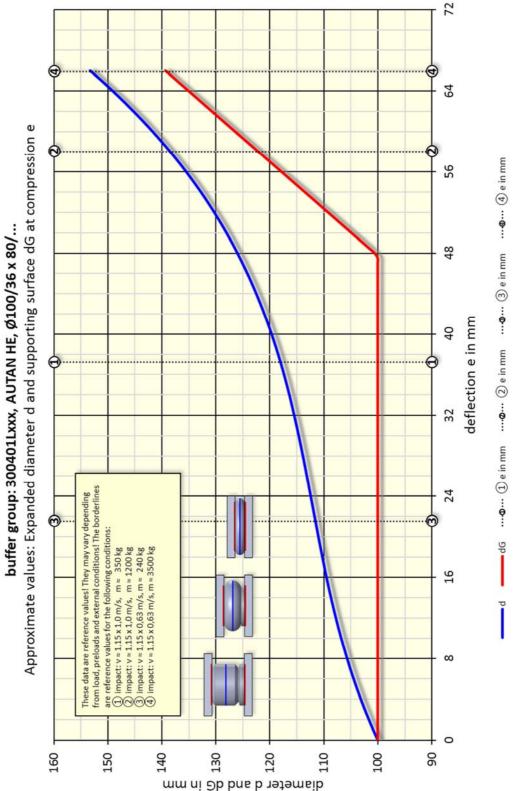
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Example:

Buffer diameter dG \approx 122 mm touches the counter-pressure surfaces and the expanded diameter is d \approx 138 mm. The buffer requires radially a free space of (138 - 100) / 2 \approx 19 mm for free deflection. Twice the distance between 2 of the same buffers is required. As described in line \bigcirc there is an impact of m = 1200 kg at 1,15 m/s. This results in a deflection of e \approx 58 mm up to line \bigcirc ...