

## Current Generation Lift Buffers of AUTAN HE®

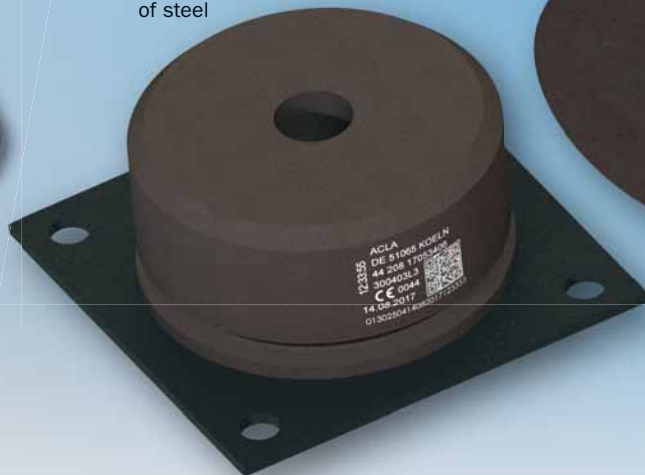
### EN 81-20/50

Test Type Certificate available



**type A**  
with round  
fixing plate  
of steel

**type C**  
with square  
fixing plate  
of steel



**type D**  
with integrated  
steel plate

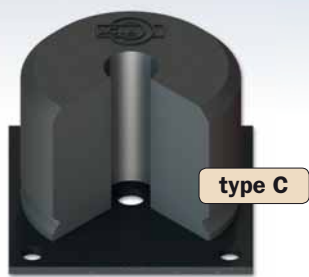


USA / CANADA: Certificates for ASME 17.7 / 17.1 CSA B44 7-07 to -13 approved record 17-1352 are available.



**type A**

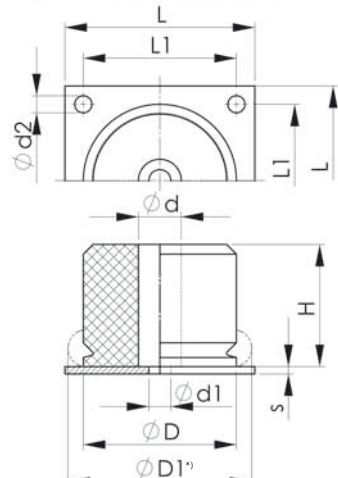
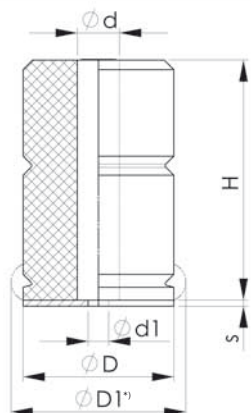
#### Nominal article sizes



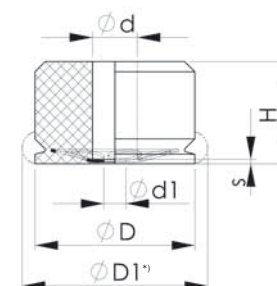
**type C**



**type D**



\*Data for ØD1 on request



## Lift Buffers of AUTAN® HE certified as per EN 81-20/50 and Lift Directive 2014/33/EU

### The ACLA safety product on the latest state-of-the art

We ensure planning certainty for all your future lift projects based on the applicable standard EN 81-20/50 and lift directive 2014/33/EU. All offered buffers are type-tested according to the current regulations.

Putting the focus on the optimisation of manufacturing technology our lift buffers of AUTAN HE series S offer extended application ranges as to min. and max. loads.

All buffers of series S comply with the important mounting height of 80 mm.

### Maintenance 4.0 integrated

Important product data is digitally marked on each ACLA lift buffer of AUTAN HE.

The following table is an overview of our delivery program incl. the admissible application ranges.



Type-examination certificates and declarations of conformity can be downloaded from our website "www.acla-werke.de".

**Series S of AUTAN® HE: widened application range at min. and max. loads!**

## Delivery program and application ranges for lift buffers type A, C and D of AUTAN® HE acc. to EN 81-20/50 at nominal speeds up to 0,63 m/s and 1,0 m/s

| Product range | Type-examination certificates |          | Admissible range in [kg] |                    |                  |                   | sizes            |      |     |      |      |    |     |     |     |    |
|---------------|-------------------------------|----------|--------------------------|--------------------|------------------|-------------------|------------------|------|-----|------|------|----|-----|-----|-----|----|
|               | size<br>D x H                 | type     | art. no.                 | up to v = 0,63 m/s |                  | up to v = 1,0 m/s |                  | D    | d   | d1   | H    | s  | L   | L1  | d2  |    |
|               |                               |          |                          | m <sub>min</sub>   | m <sub>max</sub> | m <sub>min</sub>  | m <sub>max</sub> |      |     |      |      |    |     |     |     |    |
| Series S      | 80 x 80                       | A        | 300400L1                 | 44 208 17053401    | 140              | 1650              | 230              | 750  | 80  | 36   | 17,0 | 80 | 5   | 100 | 80  | 11 |
|               |                               | C        | 300400L3                 |                    |                  |                   |                  |      |     |      | 18,0 |    | 6   |     |     |    |
|               |                               | D        | 300400L4                 |                    |                  |                   |                  |      |     |      | 17,2 |    | 2   |     |     |    |
|               | 100 x 80                      | A        | 300401L1                 | 44 208 17053403    | 240              | 3500              | 350              | 1200 | 100 | 36   | 17,0 | 80 | 5   | 130 | 100 | 14 |
|               |                               | C        | 300401L3                 |                    |                  |                   |                  |      |     |      | 18,0 |    | 6   |     |     |    |
|               |                               | D        | 300401L4                 |                    |                  |                   |                  |      |     |      | 17,2 |    | 2   |     |     |    |
|               | 100 x 80                      | A        | 300401M1                 | 44 208 17053402    | 200              | 2100              | 250              | 950  | 100 | 36   | 17,0 | 80 | 5   | 130 | 100 | 14 |
|               |                               | C        | 300401M3                 |                    |                  |                   |                  |      |     |      | 18,0 |    | 6   |     |     |    |
|               |                               | D        | 300401M4                 |                    |                  |                   |                  |      |     |      | 17,2 |    | 2   |     |     |    |
|               | 125 x 80                      | A        | 300402L1                 | 44 208 17053404    | 450              | 5500              | 620              | 1900 | 125 | 36   | 17,0 | 80 | 5   | 155 | 125 | 14 |
|               |                               | C        | 300402L3                 |                    |                  |                   |                  |      |     |      | 18,0 |    | 6   |     |     |    |
|               |                               | D        | 300402L4                 |                    |                  |                   |                  |      |     |      | 17,2 |    | 2   |     |     |    |
| 140 x 80      | A                             | 300419L1 | 44 208 17053405          | 450                | 6500             | 700               | 2300             | 140  | 36  | 17,0 | 80   | 6  | 180 | 140 | 18  |    |
|               | C                             | 300419L3 |                          |                    |                  |                   |                  |      |     | 18,0 |      | 6  |     |     |     |    |
|               | D                             | 300419L4 |                          |                    |                  |                   |                  |      |     | 17,2 |      | 2  |     |     |     |    |
| 165 x 80      | A                             | 300403L1 | 44 208 17053406          | 600                | 9400             | 1000              | 2800             | 165  | 36  | 17,0 | 80   | 5  | 205 | 165 | 18  |    |
|               | C                             | 300403L3 |                          |                    |                  |                   |                  |      |     | 18,0 |      | 6  |     |     |     |    |
|               | D                             | 300403L4 |                          |                    |                  |                   |                  |      |     | 17,2 |      | 2  |     |     |     |    |
| 220 x 80      | A                             | 300404L1 | 44 208 17053407          | 1000               | 9400             | 1400              | 5500             | 220  | 36  | 17,0 | 80   | 5  | 260 | 220 | 21  |    |
|               | C                             | 300404L3 |                          |                    |                  |                   |                  |      |     | 18,0 |      | 6  |     |     |     |    |
|               | D                             | 300404L4 |                          |                    |                  |                   |                  |      |     | 17,2 |      | 2  |     |     |     |    |
| 81 x 120      | A                             | 300335A1 | 44 208 12019089-001      | -                  | -                | 230               | 900              | 81   | 36  | 17,0 | 120  | 5  | 100 | 80  | 11  |    |
|               | C                             | 300335A3 |                          |                    |                  |                   |                  |      |     | 18,0 |      | 6  |     |     |     |    |
|               | D                             | 300335A4 |                          |                    |                  |                   |                  |      |     | 17,2 |      | 2  |     |     |     |    |
| 101 x 163     | A                             | 300405A1 | 44 208 12019092-001      | -                  | -                | 300               | 1600             | 101  | 36  | 17,0 | 163  | 5  | 130 | 100 | 14  |    |
|               | C                             | 300405A3 |                          |                    |                  |                   |                  |      |     | 18,0 |      | 6  |     |     |     |    |
|               | D                             | 300405A4 |                          |                    |                  |                   |                  |      |     | 17,2 |      | 2  |     |     |     |    |
| 129 x 103     | A                             | 300178A1 | 44 208 12019094-001      | -                  | -                | 600               | 2100             | 129  | 36  | 17,0 | 103  | 5  | 155 | 125 | 14  |    |
|               | C                             | 300178A3 |                          |                    |                  |                   |                  |      |     | 18,0 |      | 6  |     |     |     |    |
|               | D                             | 300178A4 |                          |                    |                  |                   |                  |      |     | 17,2 |      | 2  |     |     |     |    |
| 142 x 101     | A                             | 300183A1 | 44 208 12019096-001      | -                  | -                | 700               | 2200             | 142  | 36  | 17,0 | 101  | 6  | 180 | 140 | 18  |    |
|               | C                             | 300183A3 |                          |                    |                  |                   |                  |      |     | 18,0 |      | 6  |     |     |     |    |
|               | D                             | 300183A4 |                          |                    |                  |                   |                  |      |     | 17,2 |      | 2  |     |     |     |    |



# Lift Buffers of AUTAN® HE: Additional types

**Enhanced security as to fixing**  
We were now able to widen our delivery program for lift buffers of AUTAN HE from 3 to 5 buffer types by extensive application- and field tests as well as optimized production methods in our serial production.

Both of our new patent protected buffer types „AD“ and „CD“ show best results in practical use by their significantly improved fixing security.

Provided that the recommended maintenance intervals are kept,

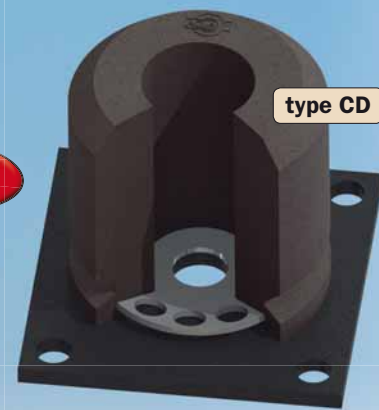
separations of the buffer from the steel plate can be excluded under normal service conditions.

Technical information and type-examination certificates of these new lift buffer types of AUTAN HE will be submitted on demand.



type AD

with round steel plate  
+ foamed-in perforated  
steel plate

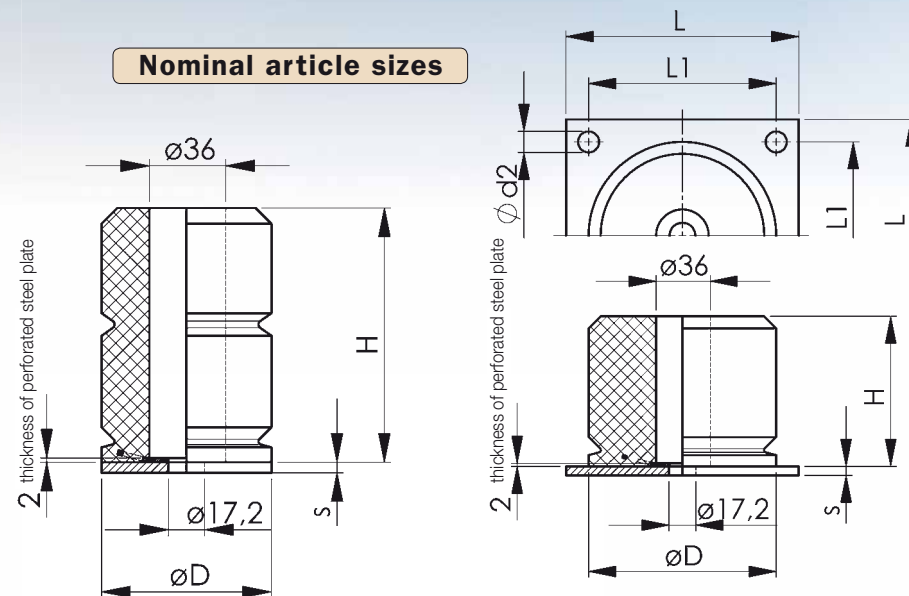


type CD

with square steel plate  
+ foamed-in perforated  
steel plate

patent  
protected

## Nominal article sizes



## Delivery program

| sizes type AD |    |   | sizes type CD |    |   |     |     |    |
|---------------|----|---|---------------|----|---|-----|-----|----|
| D             | H  | s | D             | H  | s | L   | L1  | d2 |
| 80            | 80 | 5 | 80            | 80 | 6 | 100 | 80  | 11 |
| 100           | 80 | 5 | 100           | 80 | 6 | 130 | 100 | 14 |
| 125           | 80 | 5 | 125           | 80 | 6 | 155 | 125 | 14 |
| 140           | 80 | 6 | 140           | 80 | 6 | 180 | 140 | 18 |
| 165           | 80 | 5 | 165           | 80 | 6 | 205 | 165 | 18 |
| 220           | 80 | 5 | 220           | 80 | 6 | 260 | 220 | 21 |

# Every millimetre counts!

Expansion and deflection of ACLA buffers of AUTAN® HE

## Technology advantage in favour of construction

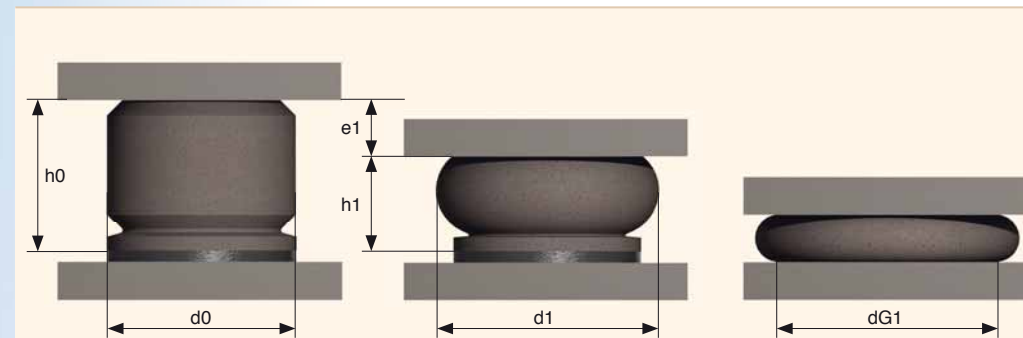
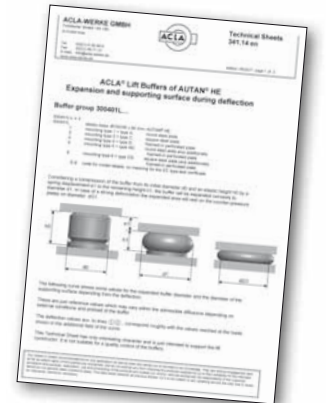
The high-grade PUR material AUTAN HE used for our ACLA lift buffers offers a clear technical advantage to the lift manufacturer in relation to construction:

The actual deflection of most buffer types of AUTAN HE is significantly less the value of 90% of the initial foam height required by the applicable standard. Thus total construction heights can be reduced in a cost-efficient manner.

The below diagram gives you a first impression of this important issue to the constructor.

Upon request, we will send you our „Technical Sheets 341“ giving detailed information about the expansion and deflection at the min. and max. loads. They may serve as a support in lift configuration and approval.

Please contact us for more information.



Considering a compression of the buffer from its initial diameter  $d_0$  and an elastic height  $h_0$  by a spring displacement  $e_1$  to the remaining height  $h_1$ , the buffer will be expanded convexly to diameter  $d_1$ . In case of a strong deformation the expanded area will rest on the counter-pressure plates on diameter  $d_{G1}$ .

