

INCREASED PERMISSIBLE LOAD

EXPERIENCE

SAFETY COMPONENT

TYPE-EXAMINATED

PROFESSIONAL COMPETENCE

Diepocell®

EMERGENCY BUFFER

lift buffers

DAMPING-OPTIMIZED

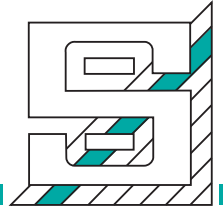
MAXIMUM ENERGY ABSORPTION

MINIMAL TRANSVERSE EXPANSION

VIBRATION DECOUPLING

COMPRESSION BEHAVIOUR

P+S Polyurethan-Elastomere



In general, buffers are intended to reliably cushion impacts resulting from unsprung masses bumping into each other. P+S stop buffers made of high performance polyurethane Diepocell successfully meet these requirements. Due to its hydrolysis resistance, an excellent damping capacity and high energy absorption with minimal transverse expansion, they provide increased permissible loads for a wide portfolio.

Our proven stop buffer program is highly suitable for applications in the fields of elevator technology, conveyor systems and mechanical engineering. We provide type-examined safety buffers even for the smallest installation spaces and for maximum stress applications.

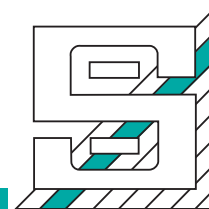
Even with extreme load, Diepocell lift buffers show convincing results due to extraordinary material features.



The Profile of Properties

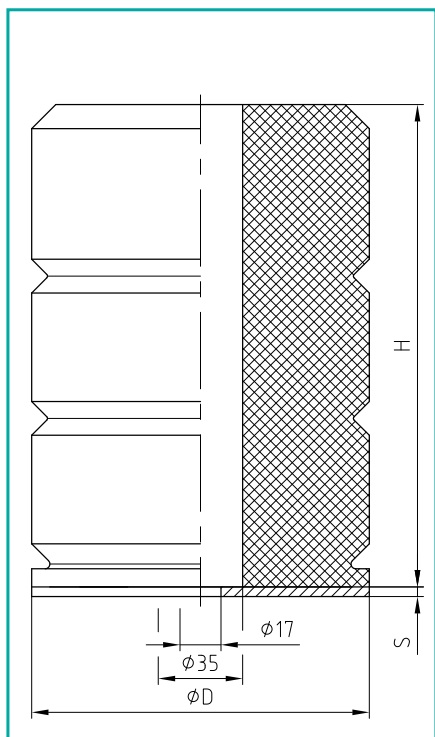
- excellent damping characteristics
- high volume compressibility with minimal transverse expansion
- wide range of permissible loads
- good resistance to oil and grease
- good resistance to ozone as well as ultraviolet and energy-rich radiation
- temperature range -30°C to $+70^{\circ}\text{C}$
- hydrolysis resistant
- all current fixing variants available

Diepocell® lift buffers

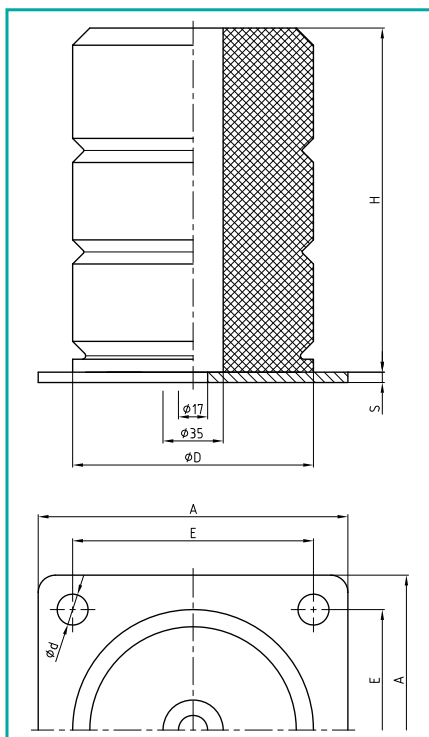


Dimensions table and item numbers

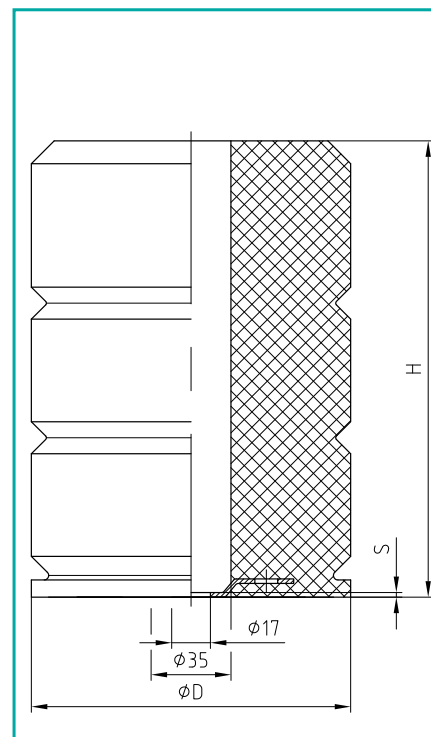
| Series | | Version A with round steel base | | Version C with square steel base | | | | Version D with integrated metal insert | | |
|---------|-----------------------------|------------------------------------|-----------|-------------------------------------|--------------------|--------------------|--------------------|--|--------------------|-----------|
| Size | Dimensions D x H (mm) | S (mm) .+ 1,0 | Item no. | A (mm) .+/- 1,0 | E (mm) .+/- 0,5 | D (mm) .+/- 0,5 | S (mm) .+/- 0,5 | Item no. | S (mm) .+/- 0,5 | Item no. |
| E1 - G | 100 x 160 | 4 | 211610074 | 130 | 100 | 14 | 6 | 211610174 | 2 | 211610774 |
| E2 - G | 125 x 100 | 4 | 211212074 | 155 | 125 | 18 | 6 | 211212174 | 2 | 211212774 |
| E3 - G | 125 x 160 | 4 | 211812074 | 155 | 125 | 18 | 6 | 211812174 | 2 | 211812774 |
| E4 - G | 125 x 200 | 4 | 211412074 | 155 | 125 | 18 | 6 | 211412174 | 2 | 211412774 |
| E5 - G | 140 x 100 | 4 | 211514074 | 180 | 140 | 18 | 6 | 211514174 | 2 | 211514774 |
| E6 - G | 140 x 200 | 4 | 211614074 | 180 | 140 | 18 | 6 | 211614174 | 2 | 211713774 |
| E7 - G | 165 x 160 | 6 | 211916074 | 205 | 165 | 18 | 6 | 211916174 | 2 | 211916774 |
| E9 - G | 220 x 160 | 6 | 211022074 | 260 | 220 | 18 | 6 | 211022174 | 2 | 211022774 |
| E11 - G | 140 x 250 | 4 | 211614274 | 180 | 140 | 18 | 6 | 211614974 | 2 | 211614774 |
| T1 - G | 80 x 80 | 4 | 211108074 | – | – | – | – | – | 2 | 211108774 |
| T2 - G | 100 x 80 | 4 | 211210074 | 130 | 100 | 14 | 6 | 211210174 | 2 | 211210774 |
| T3 - G | 125 x 80 | 4 | 211312074 | 155 | 125 | 18 | 6 | 211312174 | 2 | 211312774 |
| T4 - G | 165 x 80 | 6 | 211416074 | 205 | 165 | 18 | 6 | 211416174 | 2 | 211416774 |
| T5 - G | 220 x 80 | 6 | 211522074 | 260 | 220 | 18 | 6 | 211522174 | 2 | 211522774 |



Version A
With round fixing plate made of steel and a central hole. The lift buffer will be fixed with one bolt.



Version C
With a square fixing plate made of steel and four holes at the corners and one in the centre. The lift buffer can be fixed either with four bolts at the corners or with one in the centre.



Version D
With integrated metal insert. The buffer will be fixed with one bolt.

Diepocell® lift buffers



The type-examination tests for **P+S-lift buffers** made of Diepocell® have been carried out in accordance with the lift directive **95/16/EU**. EN 81-1+2:1998+A3:2009

Certification Body:
TÜV NORD CERT GMBH
Langemarckstraße 20
D-45141 Essen

The **certificate number** records the permissible load ranges for every type of lift buffer. On request, an **EU type-examination** test certificate can be provided for every type of lift buffer. P+S lift buffers are available ex stock or at short notice.

For lifts with lower speeds than the nominal speed used for the EU type-certification (**VN_{max.}**), the load range is applicable if the maximum car or counterweight loads are within the **m_{max.}** and **m_{min.}** load (kg).

| Size | Dimensions | | TÜV ID-number | Nominal speed v | | | |
|-------|---------------|-------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | Diameter (mm) | Height (mm) | | 0,63 (m/s) | | 1,00 (m/s) | |
| | | | | m _{min} (kg) | m _{max} (kg) | m _{min} (kg) | m _{max} (kg) |
| E1 G | 100 | 160 | 44 208 13 181601 | 180 | 4900 | 180 | 3000 |
| E2 G | 125 | 100 | 44 208 13 181602 | 180 | 5500 | 250 | 4000 |
| E3 G | 125 | 160 | 44 208 13 181603 | 230 | 6500 | 300 | 5500 |
| E4 G | 125 | 200 | 44 208 13 181604 | 230 | 7000 | 300 | 6000 |
| E5 G | 140 | 100 | 44 208 13 181605 | 300 | 7500 | 340 | 5000 |
| E6 G | 140 | 200 | 44 208 13 181606 | 230 | 9500 | 340 | 7000 |
| E7 G | 165 | 160 | 44 208 13 181607 | 310 | 9600 | 450 | 9500 |
| E9 G | 220 | 160 | 44 208 13 181608 | 470 | 9600 | 800 | 9600 |
| E11 G | 140 | 250 | 44 208 13 181609 | 310 | 8000 | 310 | 5400 |
| T1 G | 80 | 80 | 44 208 13 181610 | 180 | 1800 | 180 | 1000 |
| T2 G | 100 | 80 | 44 208 13 181611 | 180 | 2700 | 200 | 1350 |
| T3 G | 125 | 80 | 44 208 13 181612 | 230 | 5500 | 350 | 2500 |
| T4 G | 165 | 80 | 44 208 13 181613 | 450 | 8600 | 580 | 4000 |
| T5 G | 220 | 80 | 44 208 13 181614 | 900 | 9600 | 1350 | 9600 |

When applying P+S lift buffers made of Diepocell, please always take note of our operating instructions.