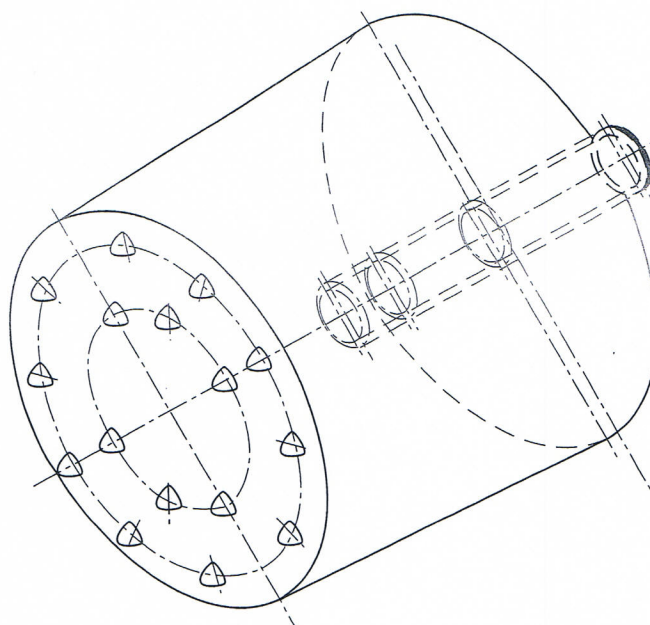
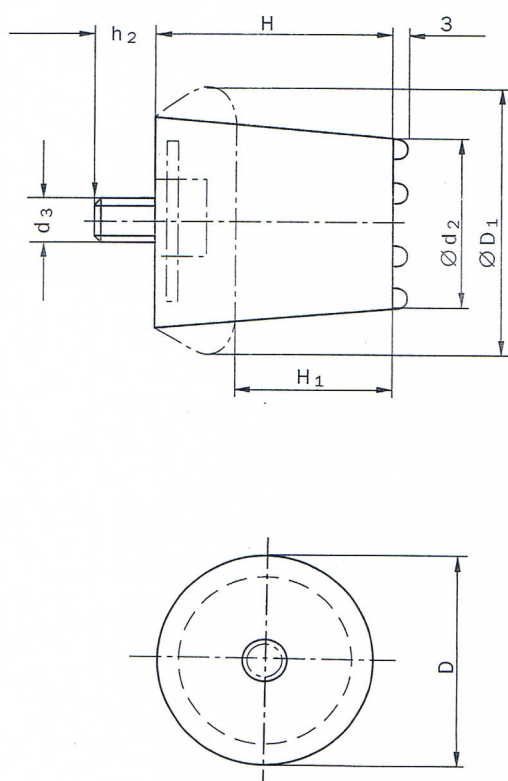


Buffers of AUTAN®

Nominal Sizes



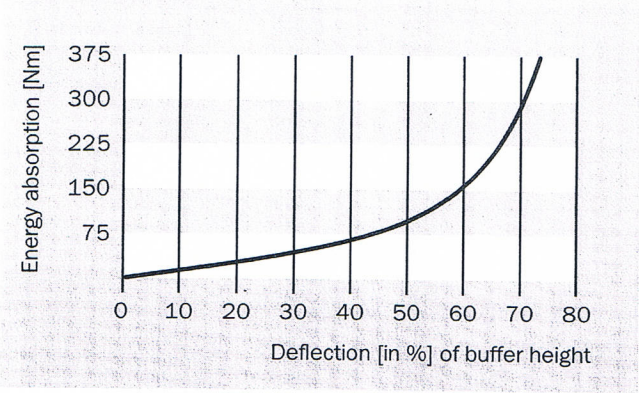
Also deliverable
without corresponding
thread

Buffer length = H
Sizes in mm

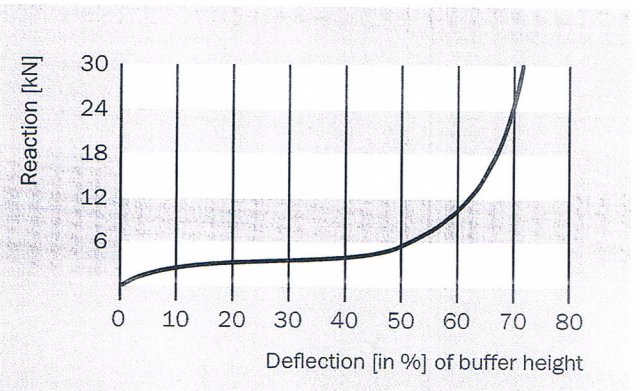
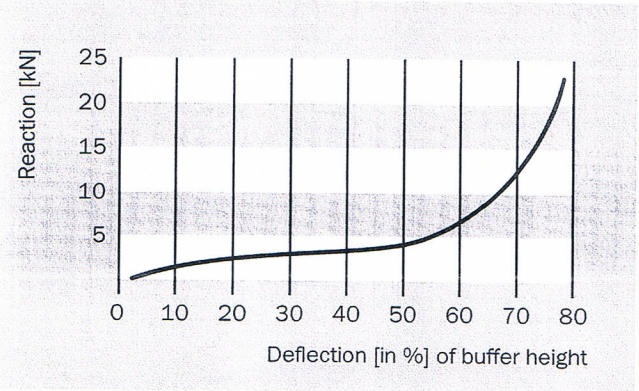
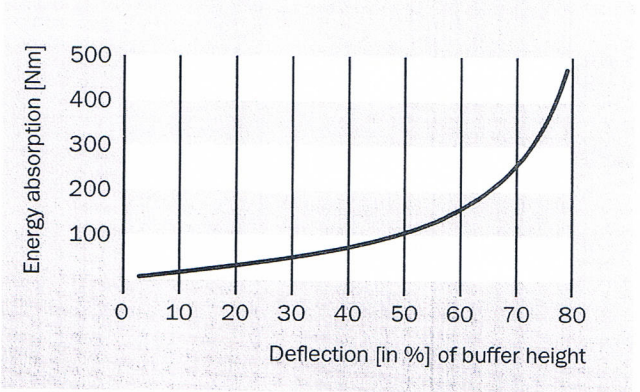
Nominal Size	ϕD	ϕd_2	d_3	H	h_2	D_1 max.	H_1 max.	Art. no.
70	70	—	M 12	70	25	90	45	300 153
80	80	75	M 12	80	25	105	55	300 154
100	100	95	M 12	100	25	130	65	300 155
125	125	120	M 12	125	25	160	85	300 156
150	150	140	M 12	165	25	195	95	300 157
160	160	150	M 12	160	25	205	110	300 158
200	200	185	M 20	200	40	260	135	300 159
250	250	250	M 24	250	82	320	170	300 325

Energy absorption and reaction

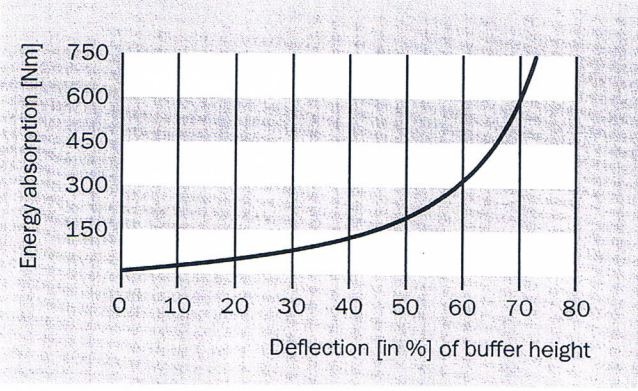
AUTAN-buffer $\varnothing$ 70 x 70



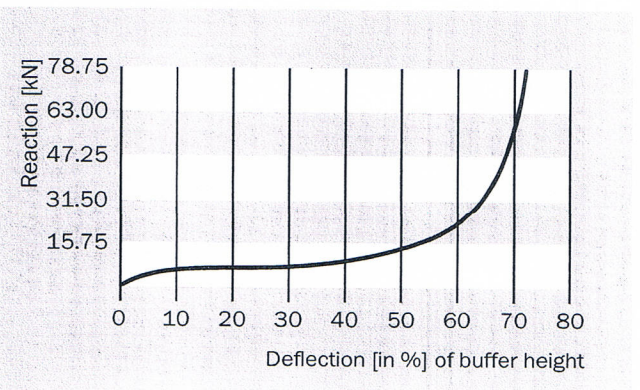
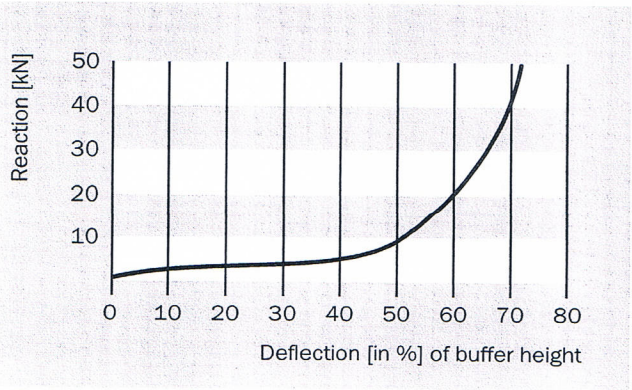
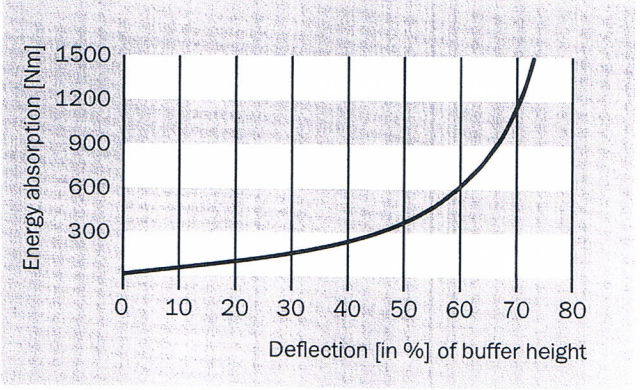
AUTAN-buffer $\varnothing$ 80 x 80



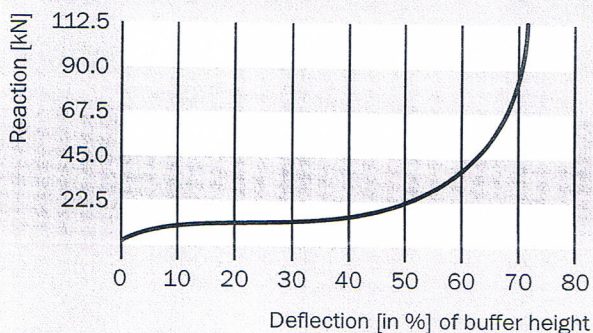
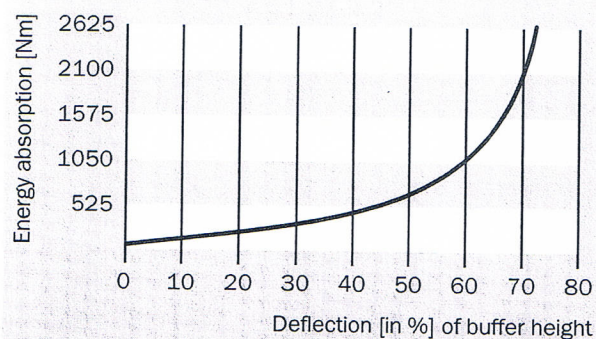
AUTAN-buffer $\varnothing$ 100 x 100



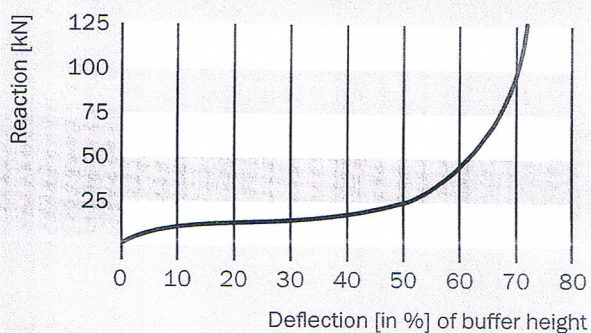
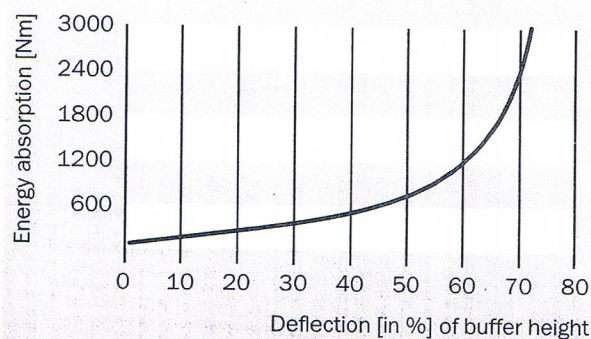
AUTAN-buffer $\varnothing$ 125 x 125



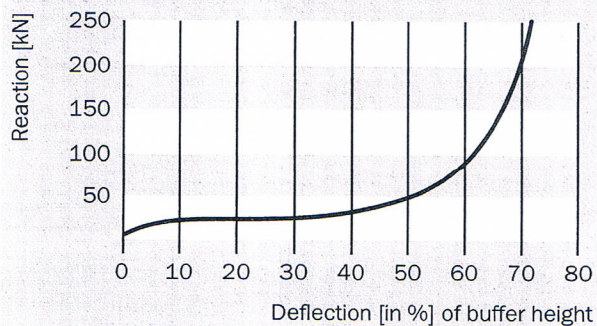
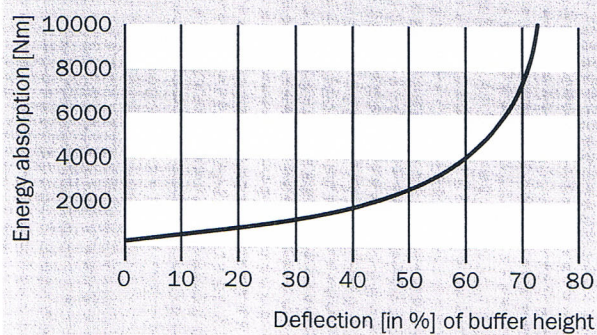
AUTAN-buffer ϕ 150 x 165



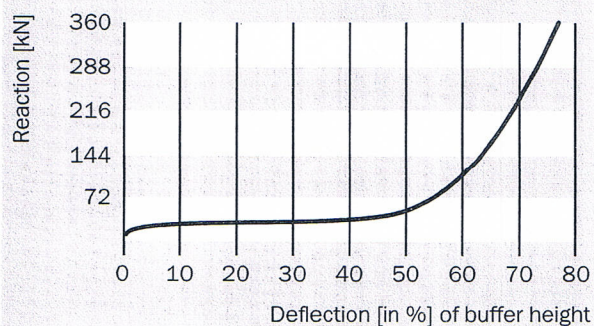
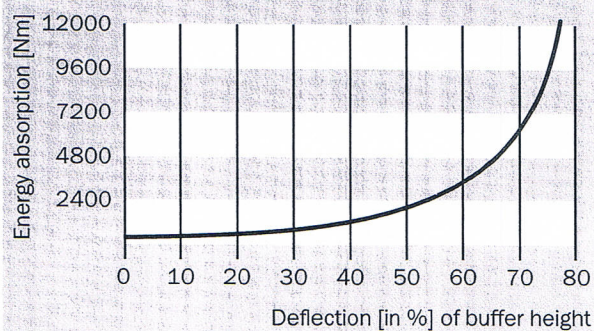
AUTAN-buffer ϕ 160 x 160



AUTAN-buffer ϕ 200 x 200



AUTAN-buffer ϕ 250 x 250





The special material properties of AUTAN

Important construction features

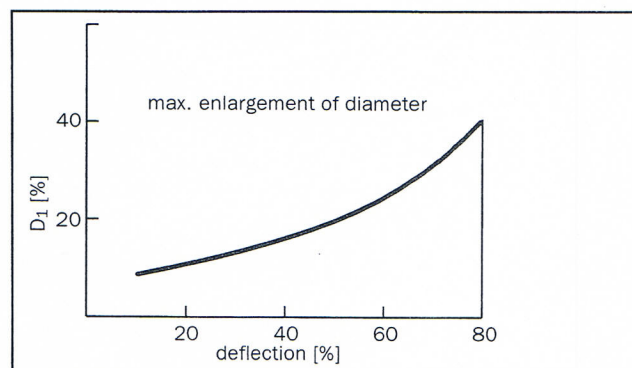
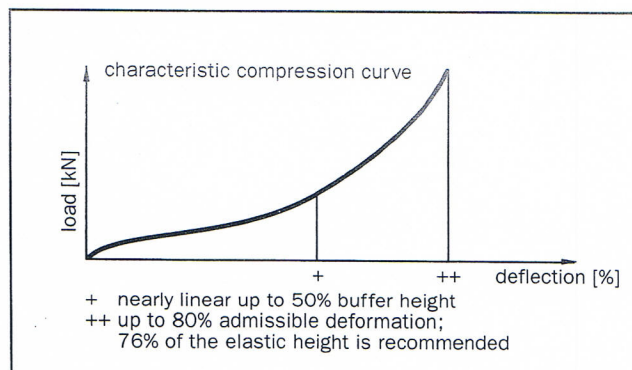
- Low true specific weight of the foamed polyurethane elastomer of $\sim 500 \text{ kg/m}^3$ ($\sim 227 \text{ lbs/cubic feet}$) (for comparison: rubber $\sim 1.400 \text{ kg/m}^3$; $\sim 635 \text{ lbs/cubic feet}$)
- High deformation up to ca. 80% of the elastic height
- Small enlargement of diameter under load
- Nearly linear curve up to 50% deflection
- Long travel stroke in spite of low buffer height
- Excellent absorption of the kinetic energy
- Very good dampening
- No hard limit stop even with extreme loads
- Silencing (no metallic impact noise)
- Corrosion resistant
- Nearly uniform energy absorption within the temperature range from -35°C (-31°F) to $+80^\circ \text{C}$ ($+176^\circ \text{F}$)
- No danger of buckling on account of favourable diameter/height ratio and conical execution
- It is possible to run the buffers against each other also with center offset (max. 20% of d_2) due to the knob profile on the upper end
- The counter surface of the buffer should not be larger than $1,2 \times d_2$
- Especially friendly to the environment since buffers of AUTAN do not require any grease or oily hydraulic elements
- Easy to maintain

Mechanical properties of AUTAN

Kind of test	Dimension	Test specification	Quality AUTAN 5
Gross density	g/cm^3	DIN 53 420	0.50
Tensile strength	N/mm^2	DIN 53 571	6
Elongation at break	%	DIN 53 571	400
Tear strength	N/cm	DIN 53 575	180
Shock absorption	%	DIN 53 512	70
Compression set		DIN 53 572	
+ 20°C ($+68^\circ \text{F}$)			
70 hours	%		6.5
+ 70°C ($+158^\circ \text{F}$)			
24 hours	%		8

(Tested at ambient temperature and normal relative humidity; the values indicated represent standard values only.)

Characteristic curves for AUTAN



Dimensions in mm.
We reserve the right to change sizes.
Further dimensions and special types on request.

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 sup-

plied by us as 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.

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