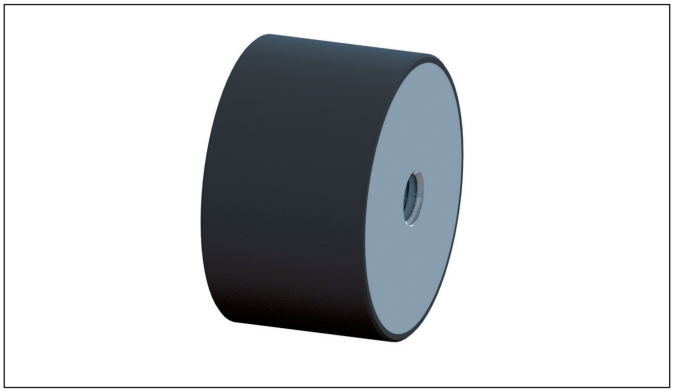
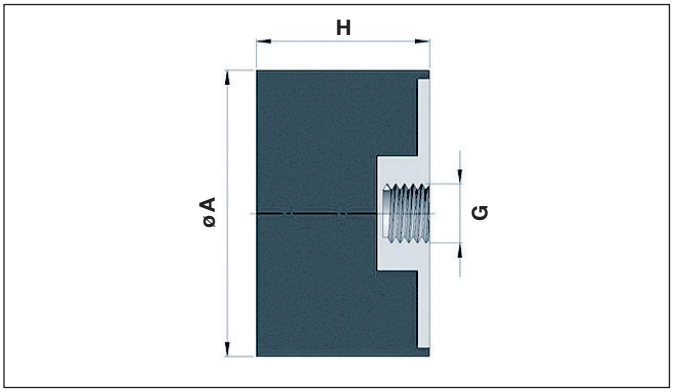
trygonal GROUP

Rubber-Metal Buffer Type E

with one-sided internal thread





Product description

Buffers are characterised by their strength and robustness. The wide range of dimensions allows multiple options for usage.

Anwendung

Buffers are particularly suitable for elastic travel limiting and for cushioning impacts on mobile and non-mobile units, machines and generally as stops.

Benefits

- Effective dampening and cushioning of impacts
- Easy to install
- RoHS compliant

Operating temperature

- Natural Rubber (NR): – 50 °C until + 90 °C

Standard quality

Natural Rubber (NR)

Special qualities

- Nitrile-Butadiene Rubber (NBR)
- Chloroprene Rubber (CR)
- Fluoro Rubber (FPM)
- Ethylene-Propylene-Diene-Rubber (EPDM)
- Polyurethan (PUR)
- Silicon
- H-NBR

  More qualities on request

Metal parts

- Steel galvanized or chromated
- Steel blank from a diameter 100 mm upwards
- Alternative support members, e. g. Stainless steel, brass, aluminum, etc. available on request

ø A	H	G	Shore	Pressure Stress		Shear Stress	
				Spring rate cz	max. rated load	Spring rate cz	max. rated load
mm	mm		A	N/mm	F max. *in N	N/mm	F max. *in N
15	8	M4	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
15	15	M4	65	– *	– *	– *	– *
			55	320	140	– *	– *
			45	– *	– *	– *	– *

Trygonal Group

ø A	H	G	Shore	Pressure Stress		Shear Stress	
				Spring rate cz	max. rated load	Spring rate cz	max. rated load
mm	mm		A	N/mm	F max. *in N	N/mm	F max. *in N
20	11	M6	65	– *	– *	– *	– *
			55	220	230	– *	– *
			45	– *	– *	– *	– *
20	15	M6	65	– *	– *	– *	– *
			55	210	220	– *	– *
			45	– *	– *	– *	– *
20	20	M6	65	– *	– *	– *	– *
			55	100	240	– *	– *
			45	– *	– *	– *	– *
20	23	M6	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
20	25	M6	65	– *	– *	– *	– *
			55	70	180	– *	– *
			45	– *	– *	– *	– *
25	10	M6	65	– *	– *	– *	– *
			55	310	420	– *	– *
			45	– *	– *	– *	– *
25	15	M6	65	– *	– *	– *	– *
			55	280	410	– *	– *
			45	– *	– *	– *	– *
25	20	M6	65	– *	– *	– *	– *
			55	110	270	– *	– *
			45	– *	– *	– *	– *
25	25	M6	65	– *	– *	– *	– *
			55	90	250	– *	– *
			45	– *	– *	– *	– *
25	30	M6	65	– *	– *	– *	– *
			55	80	230	– *	– *
			45	– *	– *	– *	– *
30	15	M8	65	– *	– *	– *	– *
			55	360	450	– *	– *
			45	– *	– *	– *	– *
30	18	M8	65	– *	– *	– *	– *
			55	350	620	– *	– *
			45	– *	– *	– *	– *
30	20	M8	65	– *	– *	– *	– *
			55	250	600	– *	– *
			45	– *	– *	– *	– *
30	25	M8	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
30	30	M8	65	– *	– *	– *	– *
			55	200	500	– *	– *
			45	– *	– *	– *	– *
30	40	M8	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *

ø A	H	G	Shore	Pressure Stress		Shear Stress	
				Spring rate cz	max. rated load	Spring rate cz	max. rated load
mm	mm		A	N/mm	F max. *in N	N/mm	F max. *in N
40	20	M8	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
40	30	M8	65	– *	– *	– *	– *
			55	350	920	– *	– *
			45	– *	– *	– *	– *
40	35	M8	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
40	40	M8	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
40	45	M8	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
50	20	M10	65	– *	– *	– *	– *
			55	700	1100	– *	– *
			45	– *	– *	– *	– *
50	25	M10	65	– *	– *	– *	– *
			55	520	1200	– *	– *
			45	– *	– *	– *	– *
50	30	M10	65	– *	– *	– *	– *
			55	450	1250	– *	– *
			45	– *	– *	– *	– *
50	40	M10	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
50	45	M10	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
50	50	M10	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
60	30	M12	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
70	45	M10	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
75	25	M12	65	– *	– *	– *	– *
			55	1700	3200	– *	– *
			45	– *	– *	– *	– *
75	40	M12	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
75	50	M12	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *

ø A	H	G	Shore	Pressure Stress		Shear Stress	
				Spring rate cz	max. rated load	Spring rate cz	max. rated load
mm	mm		A	N/mm	F max. *in N	N/mm	F max. *in N
75	55	M12	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
100	40	M16	65	– *	– *	– *	– *
			55	1400	5000	– *	– *
			45	– *	– *	– *	– *
100	50	M16	65	– *	– *	– *	– *
			55	1300	7500	– *	– *
			45	– *	– *	– *	– *
100	55	M16	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
100	60	M16	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
100	75	M16	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
150	50	M16	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
150	50	M20	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
150	55	M16	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
150	55	M20	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
150	60	M16	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
150	60	M20	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
150	75	M16	65	– *	– *	– *	– *
			55	1300	11 500	– *	– *
			45	– *	– *	– *	– *
150	75	M20	65	– *	– *	– *	– *
			55	– *	– *	– *	– *
			45	– *	– *	– *	– *
200	100	M20	65	– *	– *	– *	– *
			55	1700	21 000	– *	– *
			45	– *	– *	– *	– *

* No values have been determined / measured yet. The values will be added gradually.
If you need other buffers or other thread sizes than listed, please contact us directly.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party, and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.