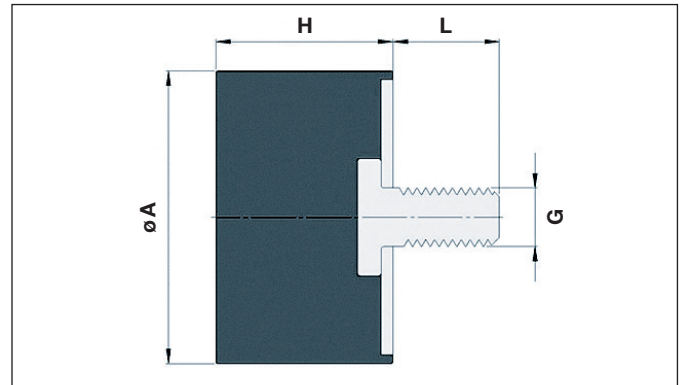
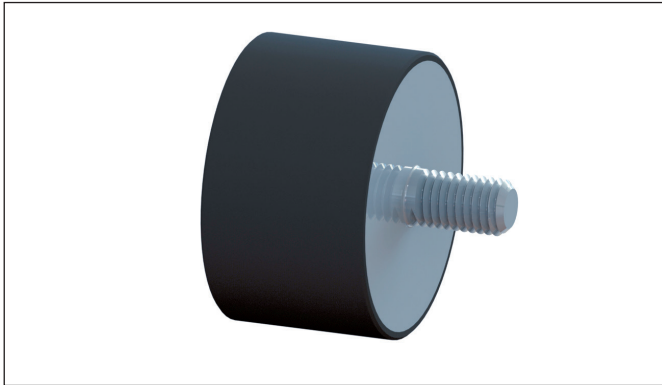


# Rubber-Metal Buffer Type D

with one-sided threaded bolt



## 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

øA	H	G	L	Shore	Pressure Stress		Shear Stress	
					Spring rate cz	max. rated load	Spring rate cz	max. rated load
mm	mm		mm	A	N/mm	F max. *in N	N/mm	F max. *in N
15	8	M4	13,00	65	– *	– *	– *	– *
				55	50	75	– *	– *
				45	– *	– *	– *	– *
15	15	M4	13,00	65	– *	– *	– *	– *
				55	350	150	– *	– *
				45	– *	– *	– *	– *

ø A	H	G	L	Shore	Pressure Stress		Shear Stress	
					Spring rate cz	max. rated load	Spring rate cz	max. rated load
					N/mm	F max. *in N	N/mm	F max. *in N
20	11	M6	18,00	65	- *	- *	- *	- *
				55	150	260	- *	- *
				45	- *	- *	- *	- *
20	15	M6	18,00	65	- *	- *	- *	- *
				55	145	250	- *	- *
				45	- *	- *	- *	- *
20	20	M6	18,00	65	- *	- *	- *	- *
				55	100	240	- *	- *
				45	- *	- *	- *	- *
20	23	M6	18,00	65	- *	- *	- *	- *
				55	85	225	- *	- *
				45	- *	- *	- *	- *
20	25	M6	18,00	65	- *	- *	- *	- *
				55	70	200	- *	- *
				45	- *	- *	- *	- *
25	10	M6	18,00	65	- *	- *	- *	- *
				55	310	500	- *	- *
				45	- *	- *	- *	- *
25	15	M6	18,00	65	- *	- *	- *	- *
				55	280	480	- *	- *
				45	- *	- *	- *	- *
25	20	M6	18,00	65	- *	- *	- *	- *
				55	110	290	- *	- *
				45	- *	- *	- *	- *
25	25	M6	18,00	65	- *	- *	- *	- *
				55	80	250	- *	- *
				45	- *	- *	- *	- *
25	30	M6	18,00	65	- *	- *	- *	- *
				55	72	235	- *	- *
				45	- *	- *	- *	- *
30	15	M8	21,00	65	- *	- *	- *	- *
				55	360	470	- *	- *
				45	- *	- *	- *	- *
30	18	M8	21,00	65	- *	- *	- *	- *
				55	360	750	- *	- *
				45	- *	- *	- *	- *
30	20	M8	21,00	65	- *	- *	- *	- *
				55	250	660	- *	- *
				45	- *	- *	- *	- *
30	25	M8	21,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
30	30	M8	21,00	65	- *	- *	- *	- *
				55	200	500	- *	- *
				45	- *	- *	- *	- *
30	40	M8	21,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *

ø A	H	G	L	Shore	Pressure Stress		Shear Stress	
					Spring rate cz	max. rated load	Spring rate cz	max. rated load
mm	mm		mm	A	N/mm	F max. *in N	N/mm	F max. *in N
40	20	M8	23,50	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
40	30	M8	23,50	65	- *	- *	- *	- *
				55	270	970	- *	- *
				45	- *	- *	- *	- *
40	35	M8	23,50	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
40	40	M8	23,50	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
40	45	M8	23,50	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
50	20	M10	28,00	65	- *	- *	- *	- *
				55	650	1750	- *	- *
				45	- *	- *	- *	- *
50	25	M10	28,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
50	30	M10	28,00	65	- *	- *	- *	- *
				55	350	1300	- *	- *
				45	- *	- *	- *	- *
50	40	M10	28,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
50	45	M10	28,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
50	50	M10	28,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
60	30	M10	28,00	65	- *	- *	- *	- *
				55	830	2400	- *	- *
				45	- *	- *	- *	- *
70	45	M10	28,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
75	15	M12	37,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
75	25	M12	37,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
75	40	M12	37,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *

ø A	H	G	L	Shore	Pressure Stress		Shear Stress	
					Spring rate cz	max. rated load	Spring rate cz	max. rated load
					N/mm	F max. *in N	N/mm	F max. *in N
75	50	M12	37,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
75	55	M12	37,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
100	20	M16	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
100	40	M16	41,00	65	-*	-*	-*	-*
				55	1400	7750	-*	-*
				45	-*	-*	-*	-*
100	50	M16	41,00	65	-*	-*	-*	-*
				55	1300	7800	-*	-*
				45	-*	-*	-*	-*
100	55	M16	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
100	60	M16	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
100	75	M16	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
125	50	M16	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
125	55	M16	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
125	60	M16	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
150	50	M16	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
150	50	M20	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
150	55	M16	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
150	55	M20	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*
150	60	M20	41,00	65	-*	-*	-*	-*
				55	-*	-*	-*	-*
				45	-*	-*	-*	-*

ø A	H	G	L	Shore	Pressure Stress		Shear Stress	
					Spring rate cz	max. rated load	Spring rate cz	max. rated load
mm	mm		mm	A	N/mm	F max. *in N	N/mm	F max. *in N
150	60	M16	41,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
150	75	M16	41,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
150	75	M20	41,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
200	100	M20	41,00	65	- *	- *	- *	- *
				55	2000	18000	- *	- *
				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.