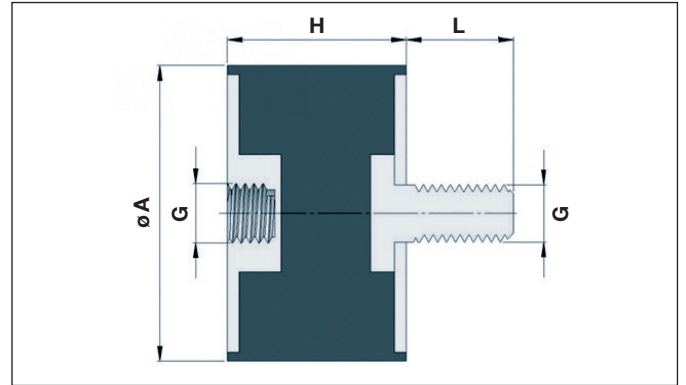
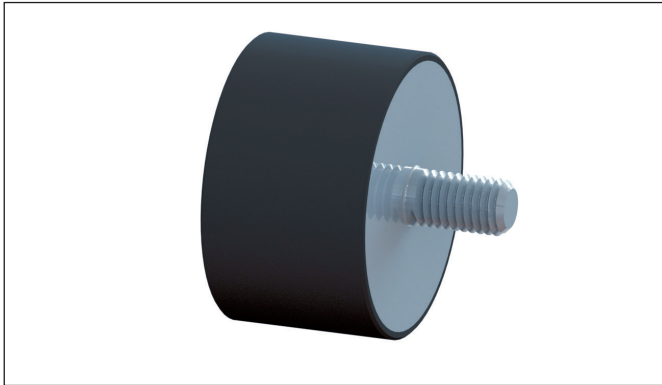


Rubber-Metal Buffer Type B

with threaded bolt and 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

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
8	6	M3	6,00	65	50	24	22	30
				55	30	16	15	24
				45	15	8	9	15
8	8	M3	6,00	65	110	35	19	26
				55	60	25	12	19
				45	30	10	6	10

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
10	8	M4	10,00	65	150	55	25	30
				55	85	35	17	25
				45	45	18	9	15
10	10	M4	10,00	65	110	70	22	27
				55	65	45	14	20
				45	30	20	7	12
10	15	M4	10,00	65	60	65	15	25
				55	35	45	9	17
				45	15	20	5	10
15	10	M4	13,00	65	175	175	80	56
				55	165	115	49	45
				45	70	50	13	25
15	15	M4	13,00	65	140	150	5	55
				55	85	95	30	45
				45	35	40	16	23
15	20	M4	13,00	65	100	135	35	55
				55	60	95	20	40
				45	25	40	12	20
15	25	M4	13,00	65	75	135	10	50
				55	45	95	7	30
				45	25	40	3	15
15	30	M4	13,00	65	60	120	7	42
				55	35	80	4	28
				45	15	40	2	20
20	15	M6	18,00	65	300	490	90	150
				55	185	305	55	95
				45	110	185	30	60
20	20	M6	18,00	65	185	385	27	145
				55	115	370	17	75
				45	50	95	12	55
20	25	M6	18,00	65	140	290	27	140
				55	80	180	17	90
				45	50	100	10	50
25	15	M6	18,00	65	550	700	140	300
				55	330	440	85	190
				45	455	200	50	110
25	20	M6	18,00	65	300	470	60	220
				55	140	290	38	140
				45	110	170	22	80
25	25	M6	18,00	65	220	510	60	210
				55	140	310	38	135
				45	110	150	20	75
25	30	M6	18,00	65	185	500	30	150
				55	110	300	20	120
				45	50	140	10	60
25	35	M6	18,00	65	150	470	22	145
				55	95	300	15	95
				45	40	135	8	50

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
30	15	M8	21,00	65	800	1600	120	440
				55	600	890	80	270
				45	350	540	45	160
30	20	M8	21,00	65	650	1350	110	370
				55	410	560	70	230
				45	240	330	40	140
30	25	M8	21,00	65	575	1200	70	210
				55	370	755	42	160
				45	220	445	22	95
30	30	M8	21,00	65	340	740	65	340
				55	210	460	40	210
				45	120	270	25	120
30	40	M8	21,00	65	180	660	32	290
				55	110	410	20	180
				45	60	240	12	100
40	15	M8	23,50	65	2000	5200	190	600
				55	1300	1400	120	350
				45	720	750	65	200
40	20	M8	23,50	65	1400	4200	145	480
				55	650	1300	95	305
				45	320	720	60	165
40	30	M8	23,50	65	540	1200	100	510
				55	340	740	60	320
				45	200	440	35	190
40	40	M8	23,50	65	390	1150	90	580
				55	190	700	40	360
				45	110	410	25	210
50	20	M10	28,00	65	2390	2400	210	550
				55	1500	1900	125	300
				45	750	1000	60	130
50	25	M10	28,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
50	30	M10	28,00	65	900	2100	150	910
				55	500	1320	90	570
				45	230	780	40	340
50	40	M10	28,00	65	550	2000	110	900
				55	350	1240	65	560
				45	210	730	35	330
50	45	M10	28,00	65	540	2750	85	800
				55	340	1730	50	495
				45	200	1020	30	310
50	50	M10	28,00	65	340	1700	70	790
				55	210	1060	40	480
				45	120	620	25	290
60	30	M10	28,00	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
60	35	M10	28,00	65	1500	3700	190	1500
				55	950	2400	115	1200
				45	450	1150	60	700
60	40	M10	28,00	65	1130	2900	150	1600
				55	710	2050	95	1040
				45	315	1700	50	540
60	45	M10	28,00	65	780	4700	110	1610
				55	490	2955	70	1010
				45	290	1705	45	600
70	45	M10	28,00	65	1200	4750	165	1200
				55	710	3005	95	750
				45	315	1205	55	600
75	25	M12	37,00	65	4700	9300	450	3100
				55	3000	6100	300	1800
				45	1800	3720	180	1400
75	40	M12	37,00	65	4500	8800	430	2800
				55	2900	5900	270	1600
				45	1700	3450	160	1250
75	45	M12	37,00	65	1700	5600	340	2700
				55	1000	3550	215	1150
				45	480	1610	105	850
75	50	M12	37,00	65	930	4600	160	1850
				55	600	2850	100	1700
				45	310	1680	60	680
75	55	M12	37,00	65	950	6310	170	2600
				55	590	3950	100	1300
				45	350	2310	60	970
75	60	M12	37,00	65	645	4800	120	2100
				55	405	2945	70	1040
				45	140	1735	40	780
75	70	M12	37,00	65	630	4550	110	1610
				55	410	2860	70	1040
				45	215	1340	35	530
100	40	M16	41,00	65	3100	16700	400	2250
				55	1900	11200	220	1400
				45	1120	2500	130	820
100	55	M16	41,00	65	2950	14900	360	2020
				55	1850	9800	215	1360
				45	1080	5500	120	730
100	60	M16	41,00	65	1400	7500	250	1400
				55	830	4900	150	1100
				45	500	2800	90	540
100	75	M16	41,00	65	1350	7100	230	790
				55	800	4700	140	980
				45	470	4100	80	480
125	55	M16	41,00	65	4010	20100	505	7400
				55	2510	13400	300	4650
				45	1300	8100	170	2380

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
125	60	M16	41,00	65	3850	18900	450	6700
				55	2450	11600	275	4300
				45	1220	7000	155	2250
125	75	M16	41,00	65	3200	16400	400	6400
				55	1950	9800	245	3900
				45	510	5900	140	1990
150	50	M20	41,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
150	50	M16	41,00	65	- *	- *	- *	- *
				55	- *	- *	- *	- *
				45	- *	- *	- *	- *
150	55	M16	41,00	65	6600	31600	660	8200
				55	4000	18700	420	5000
				45	2100	12400	220	3400
150	55	M20	41,00	65	6600	31600	660	8200
				55	4000	18700	420	5000
				45	2100	12400	220	3400
150	60	M16	41,00	65	6500	30500	650	8150
				55	3950	18100	410	4550
				45	2010	12015	220	3380
150	60	M20	41,00	65	6500	30500	650	8150
				55	3950	18100	410	4550
				45	2010	12015	220	3380
150	75	M16	41,00	65	5200	27300	580	7500
				55	3300	16800	360	4710
				45	1600	11050	200	2780
150	75	M20	41,00	65	5200	27300	580	7500
				55	3300	16800	360	4710
				45	1600	11050	200	2780
200	100	M20	41,00	65	4300	38100	560	11150
				55	2550	23400	340	6810
				45	1200	14030	185	3730

* 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.