



the solid

INNOVATIVE TECHNICAL PRODUCTS **bond**



Stöfft
Rudolf
Ges.m.b.H.



INNOVATIVE TECHNICAL PRODUCTS

Rudolf Stöffl GmbH | Austria



Since its launch in 1989, the Austrian company RUDOLF STÖFFL GMBH has grown steadily and has developed into a solid benchmark for the remainder of the market. In its early years, the company was primarily concerned with the sale and expansion of an extensive range of bonded rubber-metal products. However, as a result of a continual strengthening of its market presence and a highly positive customer response, the standard programme was then systematically enlarged to include additional product groups. Thus the expanded Stöffl range now includes moulded rubber parts in all qualities, profiles in the form of PVC edge trim, sealing profiles, sponge rubber-plastic parts, such as moulded tube plugs or sealing elements, standard knobs and handles, cable glands, connections, and special components for conveyors.

Apart from the standard range, special production according to customer drawings constitutes another area that furnishes even greater customer-orientation. Moreover, the team around the company head, Rudolf Stöffl, provides competent technical consulting for special customer requirements via the Stöffl technology service.

Stöffl products are delivered punctually and are supplied to the user in the shortest possible time by means of the very latest stock logistics.

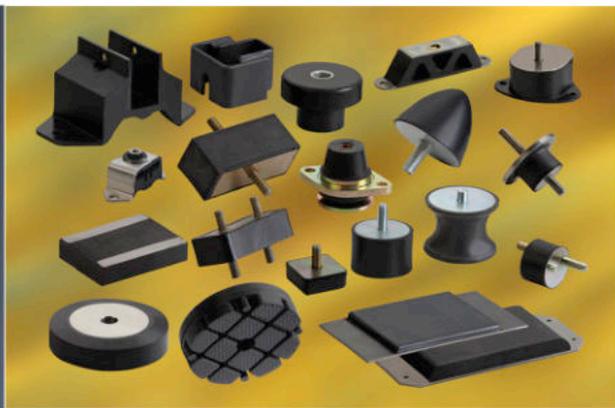
Flexibility, rapid decision-making procedures and an efficiently controlled corporate structure with a competent team make Rudolf Stöffl GmbH an interesting and sympathetic partner.

In 2009, the company transferred to newly built premises in Holzhausen near Wels in Upper Austria with the result that the Stöffl team is now able to offer its customers still greater storage and supply capacity.

You can trust in the 20 years of experience and know-how of the highly qualified Rudolf Stöffl GmbH team from whom you can ask and receive the high standards to which you are accustomed.

Product information is available under www.stoeffl.at, or please request the free product catalogue from the Stöffl team.





01 Bonded rubber-metal parts and moulded rubber parts

A lasting bond ...

... is frequently only the beginning! In order that it holds, stability and flexibility are of equal importance. All these characteristics are evident in Stöffl's bonded rubber-metal parts. Moreover, as a result of optimum stock management, standard parts can be supplied promptly, while special components in line with drawings or samples are produced quickly and with the greatest care. For above all, it is quality and reliability that form **solid bonds**.

Part of the whole

In the area of innovative, product technology, the use of high-quality plastic and rubber components has expanded to a remarkable extent. In this area, the Stöffl technology team offers vast expertise and also provides special solutions and parts of every type. For above all, it is ideas and efficiency that form **solid bonds**.

A clear profile

Plastic profiles, whether as seals, optical edge trim, or simple sponge rubber, fulfil clearly defined functions. They close, protect, or simply represent an optical improvement with a functional task. Whatever the application, Stöffl's specialists ensure a perfect blend of the appropriate materials and product qualities. For above all, it is effective profiles that form **solid bonds**.

Safe transport

Conveyor systems constitute one of the most important elements in our automated world. Indeed, defects in such crucial systems can bring complete production sequences to a grinding halt. Therefore, it is vital to have a reliable partner for conveyor system components, in order that problem-free transportation can be guaranteed and risks avoided. For above all, it is smooth running operations that form **solid bonds**.

04 Tubes and hoses

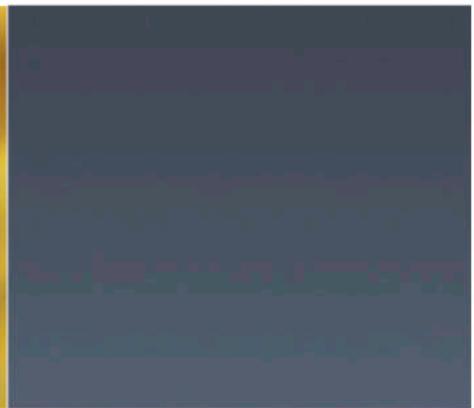


05 Spring elements





02 Plastic parts



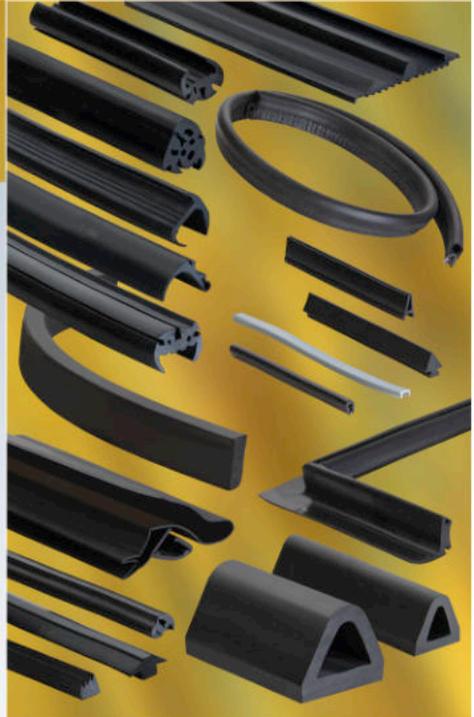
03 Standard parts



06 Conveyor belt components



07 Rubber- and plastic profiles



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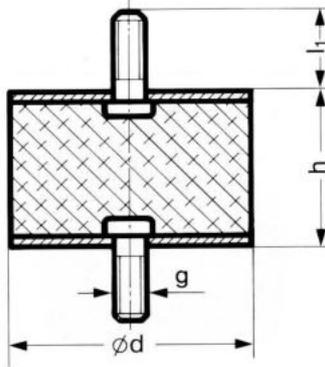
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Viton® is a registered trade mark of DuPont Dow Elastomers

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Type 1 – Double Stud (male / male)



Ex-stock in Natural Rubber (NR)
55 +/- 5 Shore A
Metal plates: Zinc plated steel

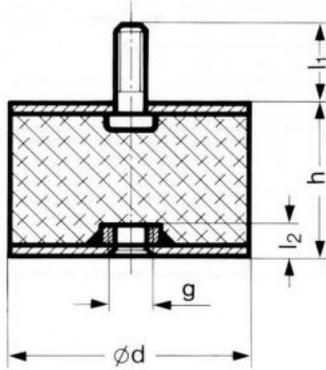
Other durometers or elastomers
available on request

Metal plates also available
in stainless steel

We also offer customized
solutions

P/N	d	h	g	l1	P/N	d	h	g	l1
08-08-1	8	8	M3	6	40-15-1	40	15	M8	20
10-10-1	10	10	M4	10	40-25-1	40	25	M8	23
15-07-1	15	7	M4	10	40-25-1/S	40	25	M10	28
15-08-1	15	8	M4	10	40-30-1	40	30	M8	23
15-10-1	15	10	M4	10	40-30-1/S	40	30	M10	28
15-15-1	15	15	M4	10	40-40-1	40	40	M8	23
15-15-1/S	15	15	M5	8	50-20-1	50	20	M10	28
15-20-1	15	20	M4	13	50-30-1	50	30	M10	28
20-08-1	20	8	M6	18	50-40-1	50	40	M10	28
20-10-1	20	10	M6	18	50-45-1	50	45	M10	33
20-15-1	20	15	M6	18	50-50-1	50	50	M10	28
20-20-1	20	20	M6	18	60-40-1	60	40	M10	28
20-25-1	20	25	M6	18	60-40-1/S	60	40	M12	33
25-10-1	25	10	M6	18	70-45-1	70	45	M10	28
25-15-1	25	15	M6	18	75-25-1	75	25	M12	37
25-20-1	25	20	M6	18	75-40-1	75	40	M12	37
25-25-1	25	25	M6	18	75-50-1	75	50	M12	37
25-30-1	25	30	M6	18	75-55-1	75	55	M12	37
30-15-1	30	15	M8	20	100-40-1	100	40	M16	41
30-20-1	30	20	M8	20	100-50-1	100	50	M16	41
30-25-1	30	25	M8	20	100-55-1	100	55	M16	41
30-30-1	30	30	M8	20	100-60-1	100	60	M16	41
30-40-1	30	40	M8	20	100-75-1	100	75	M16	41
					150-50-1	150	50	M16	41
					150-55-1	150	55	M16	41
					150-75-1	150	75	M16	41

Type 2 – Stud / Insert (male / female)



Ex-stock in Natural Rubber (NR)
55 +/- 5 Shore A
Metal plates: Zinc plated steel

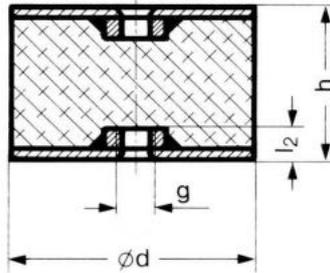
Other durometers or elastomers
available on request

Metal plates also available
in stainless steel

We also offer customized
solutions

P/N	d	h	g	l1	l2	P/N	d	h	g	l1	l2
08-08-2	8	8	M3	6	3	50-20-2	50	20	M10	28	10
10-10-2	10	10	M4	10	4	50-25-2	50	25	M10	28	10
10-15-2	10	15	M4	10	4	50-30-2	50	30	M10	28	10
15-15-2	15	15	M4	10	6	50-40-2	50	40	M10	28	10
15-15-2/S	15	15	M5	8	6	50-45-2	50	45	M10	33	10
15-20-2	15	20	M4	10	5	50-50-1	50	50	M10	28	10
15-30-2	15	30	M4	15	6	60-40-2	60	40	M10	28	10
20-15-2	20	15	M6	18	6	60-40-2/S	60	40	M12	33	12
20-20-2	20	20	M6	18	6	70-45-2	70	45	M10	28	10
20-25-2	20	25	M6	18	6	75-25-2	75	25	M12	37	12
25-15-2	25	15	M6	18	6	75-40-2	75	40	M12	37	12
25-20-2	25	20	M6	18	6	75-45-2	75	45	M12	37	12
25-25-2	25	25	M6	18	6	75-50-2	75	50	M12	37	12
25-30-2	25	30	M6	18	6	75-55-2	75	55	M12	37	12
30-15-2	30	15	M8	20	8	100-40-2	100	40	M16	41	16
30-20-2	30	20	M8	20	8	100-50-2	100	50	M16	41	16
30-25-2	30	25	M8	20	8	100-55-2	100	55	M16	41	16
30-30-2	30	30	M8	20	8	100-60-2	100	60	M16	41	16
30-40-2	30	40	M8	20	8	100-75-2	100	75	M16	41	16
40-25-2	40	25	M8	23	8	150-50-2	150	50	M16	41	16
40-30-2	40	30	M8	23	8	150-55-2	150	55	M16	41	16
40-30-2/S	40	30	M10	28	10	150-75-2	150	75	M16	41	16
40-40-2	40	40	M8	23	8						

Type 3 – Insert / Insert (female / female)



Ex-stock in Natural Rubber (NR)
55 +/- 5 Shore A
Metal plates: Zinc plated steel

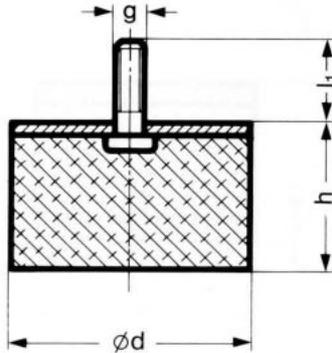
Other durometers or elastomers
available on request

Metal plates also available
in stainless steel

We also offer customized
solutions

P/N	d	h	g	l2	P/N	d	h	g	l2
08-08-3	8	8	M3	3	60-40-3	60	40	M10	10
10-10-3	10	10	M4	4	60-40-3/S	60	40	M12	12
10-15-3	10	15	M4	4	70-45-3	70	45	M10	10
15-15-3	15	15	M4	5	75-40-3	75	40	M12	12
15-15-3/S	15	15	M5	5	75-50-3	75	50	M12	12
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20-15-3	20	15	M6	6	100-40-3	100	40	M16	16
20-20-3	20	20	M6	6	100-50-3	100	50	M16	16
20-25-3	20	25	M6	6	100-55-3	100	55	M16	16
25-20-3	25	20	M6	6	100-60-3	100	60	M16	16
25-25-3	25	25	M6	6	100-75-3	100	75	M16	16
25-30-3	25	30	M6	6	150-50-3	150	50	M16	16
30-20-3	30	20	M8	8	150-55-3	150	55	M16	16
30-25-3	30	25	M8	8	150-75-3	150	75	M16	16
30-30-3	30	30	M8	8	150-50-3	150	50	M20	18
30-40-3	30	40	M8	8	150-55-3	150	55	M20	18
40-30-3	40	30	M8	8	150-75-3	150	75	M20	18
40-30-3/S	40	30	M10	10	200-100-3	200	100	M20	18
40-40-3	40	40	M8	8					
50-30-3	50	30	M10	10					
50-40-3	50	40	M10	10					
50-45-3	50	45	M10	10					
50-50-3	50	50	M10	10					

Type 4 – Single Stud (single male)



Ex-stock in Natural Rubber (NR)
55 +/- 5 Shore A
Metal plates: Zinc plated steel

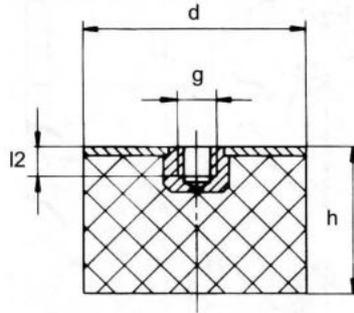
Other durometers or elastomers
available on request

Metal plates also available
in stainless steel

We also offer customized
solutions

P/N	d	h	g	l1	P/N	d	h	g	l1
10-10-4	10	10	M4	10	50-20-4	50	20	M10	28
10-15-4	10	15	M4	10	50-30-4	50	30	M10	28
15-08-4	15	8	M4	10	50-40-4	50	40	M10	28
15-10-4	15	10	M4	10	50-45-4	50	45	M10	28
15-15-4	15	15	M4	10	50-50-4	50	50	M10	28
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20-11-4	20	11	M6	18	60-40-4/S	60	40	M12	33
20-15-4	20	15	M6	18	70-25-4/S2	70	25	M10	28
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25-08-4	25	8	M6	18	75-40-4	75	40	M12	37
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25-20-4	25	20	M6	18	100-40-4	100	40	M16	41
25-25-4	25	25	M6	18	100-50-4	100	50	M16	41
25-30-4	25	30	M6	18	100-55-4	100	55	M16	41
30-15-4	30	15	M8	20	100-60-4	100	60	M16	41
30-20-4	30	20	M8	20	100-75-4	100	75	M16	41
30-25-4	30	25	M8	20	150-50-4	150	50	M16	41
30-30-4	30	30	M8	20	150-60-4	150	60	M16	41
30-40-4	30	40	M8	20	150-75-4	150	75	M16	41
40-20-4	40	20	M8	23					
40-30-4	40	30	M8	23					
40-30-4/S	40	30	M10	28					
40-40-4	40	40	M8	23					

Type 5 – Single Insert (single female)



Ex-stock in Natural Rubber (NR)
55 +/- 5 Shore A
Metal plates: Zinc plated steel

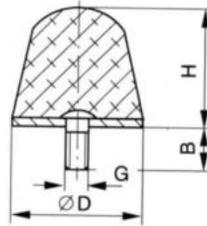
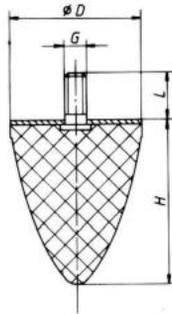
Other durometers or elastomers
available on request

Metal plates also available
in stainless steel

We also offer customized
solutions

P/N	d	h	g	l2	P/N	d	h	g	l2
10-10-5	10	10	M4	4	50-20-5	50	20	M10	10
10-15-5	10	15	M4	4	50-30-5	50	30	M10	10
15-15-5	15	15	M4	5	50-40-5	50	40	M10	10
20-11-5	20	11	M6	6	50-45-5	50	45	M10	10
20-15-5	20	15	M6	6	50-50-5	50	50	M10	10
20-20-5	20	20	M6	6	60-40-5	60	40	M10	10
20-25-5	20	25	M6	6	60-40-5/S	60	40	M12	12
25-10-5	25	10	M6	6	70-45-5	70	45	M10	10
25-15-5	25	15	M6	6	75-25-5	75	25	M12	12
25-20-5	25	20	M6	6	75-40-5	75	40	M12	12
25-25-5	25	25	M6	6	75-50-5	75	50	M12	12
25-30-5	25	30	M6	6	75-55-5	75	55	M12	12
30-15-5	30	15	M8	8	100-40-5	100	40	M16	16
30-17-5	30	17	M8	8	100-50-5	100	50	M16	16
30-20-5	30	20	M8	8	100-55-5	100	55	M16	16
30-25-5	30	25	M8	8	100-60-5	100	60	M16	16
30-30-5	30	30	M8	8	100-75-5	100	75	M16	16
40-30-5	40	30	M8	8	150-45-5	150	45	M16	16
40-30-5/S	40	30	M10	10	150-50-5	150	50	M16	16
40-40-5	40	40	M8	8	150-55-5	150	55	M16	16
					150-60-5	150	60	M16	16
					150-75-5	150	75	M16	16

Type KP - parabolic



Ex-stock in Natural Rubber (NR) 55 +/- 5 Shore A
Metal plates: Zinc plated steel
Other durometers or elastomers available on request

Metal plates also available in stainless steel
We also offer customized solutions

only P/N KP125,5x78

With inside threads upon request

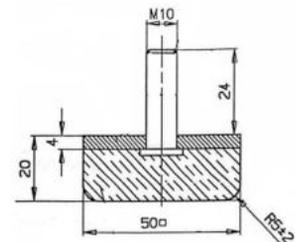
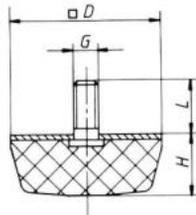
P/N	D	H	G	L	P/N	D	H	G	L
KP 10x10	10	10	M5	12	KP 50x61	50	61	M8	26
KP 20x15	20	15	M6	18	KP 50x67	50	67	M8	36
KP 25x20	25	20	M6	18	KP 72x58	72	58	M12	30
KP 20x24	20	24	M6	18	KP 75x89	75	89	M12	37
KP 30x30	30	30	M8	20	KP 95x80	95	80	M16	41
KP 30x36	30	36	M8	20	KP115x136	115	136	M16	43
KP 35x40	35	40	M8	20	KP118x77	118	77	M16	41
KP 50x50	50	50	M8	23	P/N	D	H	G	B
KP 50x58	50	58	M10	28	KP125,5x78	125,5	78	M16	46

Type K – conical bump stops, square bump stops

conical – round shape:
P/N K25x17, K50x18, K125x45

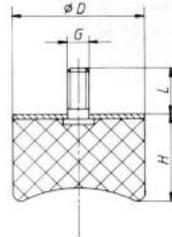
conical – square:
only P/N K80x30

square:
only P/N K50x50



P/N	D	H	G	L	
K 25x17	25	17	M6	18	<p>Ex-stock in Natural Rubber (NR) 55 +/- 5 Shore A Other durometers or elastomers available on request</p> <p>Metal plates: Zinc plated steel Metal plates also available in stainless steel We also offer customized solutions</p>
K 50x18	50	18	M8	28	
K 50x50	50x50	20	M10	24	
K 80x30	80x80	30	M12	35	
K125x45	125	45	M16	45	

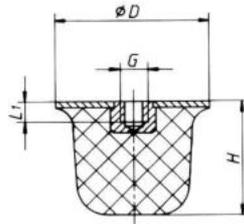
Type DS – bump stop with single stud



Ex-stock in Natural Rubber (NR)
55 +/- 5 Shore A
Metal plates: Zinc plated steel
Other durometers or elastomers
available on request
Metal plates also available
in stainless steel
We also offer customized
solutions

P/N	D	H	G	L	P/N	D	H	G	L
DS 15x14	15	14	M4	13	DS 50x28	50	28	M10	33
DS 20x23,5	20	23,5	M6	18	DS 70x43	70	43	M10	30
DS 25x18,5	25	18,5	M6	18	DS 75x37	75	37	M12	37
DS 30x28,5	30	28,5	M8	20	DS100x50	100	50	M16	45
DS 40x28,5	40	28,5	M8	23					

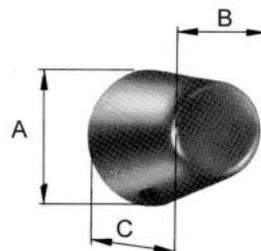
Type KE – bump stop with single insert



Ex-stock in Natural Rubber (NR)
55 +/- 5 Shore A
Metal plates: Zinc plated steel
Other durometers or elastomers
available on request
Metal plates also available
in stainless steel
We also offer customized
solutions

P/N	D	H	G	L1	P/N	D	H	G	L1
KE 50x35	50	35	M10	10	KE125x90	125	90	M16	16
KE 80x60	80	60	M12	12					

Conical bump stop with single stud



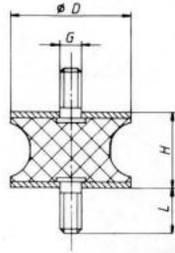
In material NR 70 +/-5 Shore A
available ex-stock
other sizes, durometers or
materials on request

Metal plates also available
in stainless steel
We also offer customized
solutions

P/N	A	B	C	G/L	P/N	A	B	C	G/L
133006	43	30	50	M10x25	133006-2	38	30	35	M10x27
133006-1	43	30	35	M10x27					

G/L: Thread x Bolt Length

Type AT – hour-glass-shaped – double stud

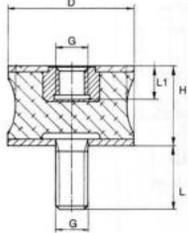


Ex-stock in Natural Rubber (NR)
55 +/- 5 Shore A
Metal plates: Zinc plated steel
Other durometers or elastomers
available on request
Metal plates also available
in stainless steel
We also offer customized
solutions

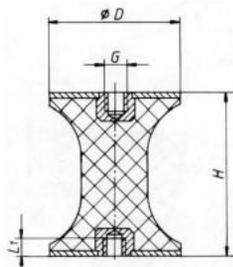
P/N	D	H	G	L	P/N	D	H	G	L
AT 10x10	10	10	M4	10	AT 40x28	40	28	M10	20
AT 20x15	20	15	M6	18	AT 40x30	40	30	M8	20
AT 20x30	20	30	M6	12	AT 40x48	40	48	M8	23
AT 20x40	20	40	M6	12	AT 46x25	46	25	M10	20
AT 25x20/S	25	20	M6	15	AT 50x30	50	30	M10	33
AT 30x20	30	20	M8	20	AT 75x40	75	40	M12	37
AT 30x25*	30	25	M8	15	AT100x55	100	55	M16	45

* - in NR 65 +/- 5 Shore A

Type BT – hour-glass-shaped – stud/insert

P/N	D	H	G	L	L1	available ex-stock or within shortest time
BT 10x10	10	10	M4	10	4	
BT 20x15	20	15	M6	18	6	
BT 25x20	25	20	M6	18	6	
BT 40x30	40	30	M8	20	8	
BT 55x45	55	45	M10	20	10	

Type CT – hour-glass-shaped – double insert

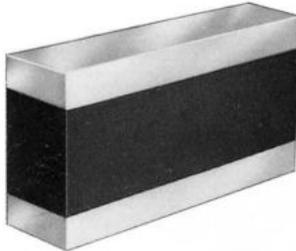


Ex-stock in Natural Rubber (NR)
55 +/- 5 Shore A
Metal plates: Zinc plated steel
Other durometers or elastomers
available on request

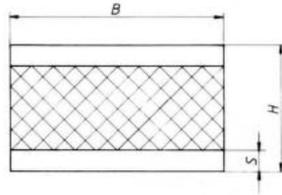
Metal plates also available
in stainless steel
We also offer customized
solutions

P/N	D	H	G	L1	P/N	D	H	G	L1
CT 10x10	10	10	M4	4	CT 40x48	40	48	M8	8
CT 20x30	20	30	M6	6	CT 50x30	50	30	M10	10
CT 30x20	30	20	M8	8	CT 75x40	75	40	M12	12
CT 40x30	40	30	M8	8	CT100x55	100	55	M16	18

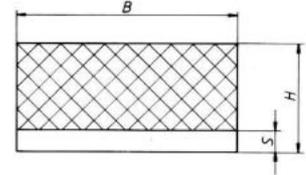
Isolation blocks – Type A and F
standard length 2.000 mm



Type A
metal plates on both sides



Type A
metal plates on both sides



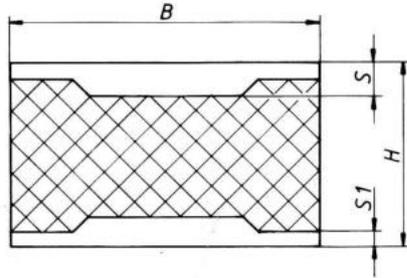
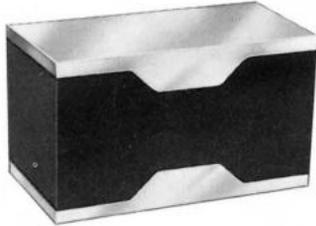
Type F
metal plate on one side

P/N	B	H	S	P/N	B	H	S
25 30	25	30	5	80 45	80	45	10
30 30	30	30	5	80 80	80	80	10
40 20	40	20	5	100 40	100	40	10, 15
40 35	40	35	5, 8, 10	100 45	100	45	10, 15
40 40	40	40	5, 8, 10	100 50	100	50	10, 15
40 45	40	45	5, 8, 10	100 55	100	55	10, 15
50 20	50	20	5	100 60	100	60	10, 15
50 35	50	35	5, 10	100 70	100	70	10, 15
50 40	50	40	5, 10	100 80	100	80	10, 15
50 45	50	45	5, 10	100100	100	100	10, 15
50 50	50	50	5, 10	120 40	120	40	10, 15
50 55	50	55	5, 10	120 45	120	45	10, 15
50 70	50	70	5, 10	120 50	120	50	10, 15
60 40	60	40	10	120 60	120	60	10, 15
60 50	60	50	10	120 70	120	70	10, 15
60 60	60	60	10	120 80	120	80	10, 15
60 70	60	70	10	120100	120	100	10, 15
60 80	60	80	10	150 45	150	45	10, 15
70 30	70	30	10	150 50	150	50	10, 15
70 40	70	40	10	150 60	150	60	10, 15
70 45	70	45	10	150 70	150	70	10, 15
70 50	70	50	10	150 80	150	80	10, 15
70 60	70	60	10	150100	150	100	10, 15
70 65	70	65	10	200 60	200	60	15
70 70	70	70	10	200 80	200	80	15
70 80	70	80	10	200100	200	100	15
				300100	300	100	15

Standard material: Natural Rubber (NR) – blocks can be custom made to any size up to 2000 mm length
trthreaded or through holes in the metal plates can be supplied on special orders

Isolation blocks – Type All

Standard length 2000 mm

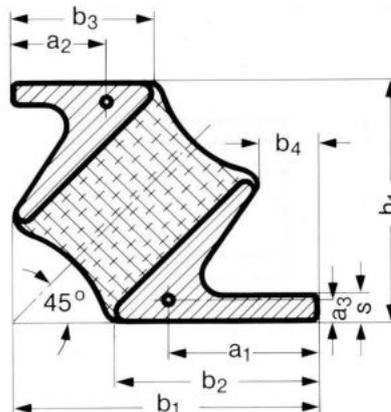


consists of 2 metal plates
(reinforced steel) bonded to
elastomer insert

standard material:
Natural Rubber (NR)

P/N	B	H	S	S1	P/N	B	H	S	S1
All 50 35	50	35	10	5	All 70 50	70	50	12	5
All 50 40	50	40	10	5	All 70 60	70	60	12	5
All 50 45	50	45	10	5	All 70 80	70	80	12	5
All 50 50	50	50	10	5					
All 50 55	50	55	10	5	All 100 40	100	40	15	5
All 50 60	50	60	10	5	All 100 45	100	45	15	5
All 50 70	50	70	10	5	All 100 50	100	50	15	5
					All 100 55	100	55	15	5
All 60 35	60	35	11	5	All 100 60	100	60	15	5
All 60 60	60	60	11	5	All 100 70	100	70	15	5
					All 100 80	100	80	15	5
All 70 30	70	30	12	5					
All 70 45	70	45	12	5					

Anti-vibration mounts



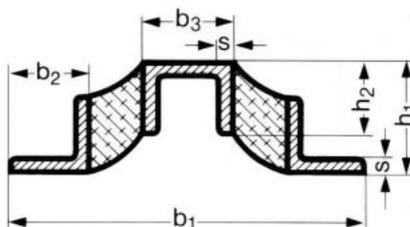
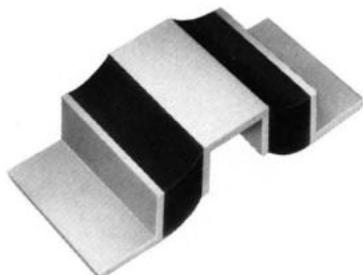
material:

Natural Rubber (NR)
55 +/- 5 Shore A

l = length

P/N	b1	h1	l	b2	b3	b4	s	a1	a2	a3
38537	108	80	75	76	48	28	10	53	25	10
38538	108	80	200	76	48	28	10	53	25	10
38539	144	106	75	105	67	38	15	72	34	15
38540	144	106	200	105	67	38	15	72	34	15

U-Channels

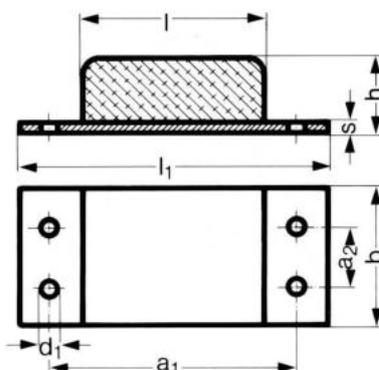


material:

Natural Rubber (NR)
55 +/- 5 Shore A

P/N	b1	h1	l	b2	b3	h2	s
27847	110	34	25	25	27	22	4
27753	110	34	50	25	27	22	4
27788	110	34	75	25	27	22	4
20302	110	34	2000	25	27	22	4

Isolation Blocks

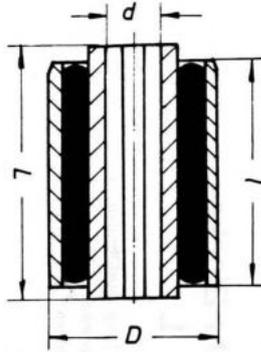


material:

Natural Rubber (NR)
55 +/- 5 Shore A

P/N	b	h	l	l1	s	a1	a2	d1
25081b AN	50	35	70	130	5	100	-	8,5
25080 AN	50	70	70	130	5	100	-	8,5
20299 AN	100	45	120	200	10	160	50	13
24472 AN	100	80	120	200	10	160	50	13
21422b AN	120	45	150	250	10	200	60	15
21422 AN	120	70	150	250	10	200	60	15
21055b AN	150	50	200	300	15	250	80	17
21055 AN	150	80	200	300	15	250	80	17

Bushings



standard material:

Natural Rubber (NR)
durometer 50-60 ° Shore A

P/N	d	D	l	L	P/N	d	D	l	L
ST0816-1517	8	16	15	17	ST1438-6371	14,25	38	63	71
ST0820-1517	8	20	15	17	ST1450-6371	14,25	50	63	71
ST0822-1016	8	22	10	16	ST1450-7381	14,2	50	73	81
ST1018-1820	10	18	18	20	ST1632-2528	16	32	25	28
ST1022-1517	10	22	15	17	ST1632-5054	16	32	50	54
ST1022-2530	10	22	25	30	ST1635-5862	16	35	58	62
ST1022-3033	10	22	30	33	ST1640-3238	16	40	32	38
ST1024-1417	10	24	14	17	ST1834-3642	18	34	36	42
ST1025-2024	10	25	20	24	ST1834-3236	18	34	32	36
ST1027-4551	10	27	45	51	ST1846-6065	18,2	46	60	65
ST1222-2224	12	22	22	24	ST1846-6371	18,25	46	63	71
ST1224-3538	12	24	35	38	ST1846-7381	18,2	46	73	81
ST1225-2528	12	25	25	28	ST2044-3842	20	44	38	42
ST1226-1724	12	26	17	24	ST2045-3030	20	45	30	30
ST1226-1824	12	26	17,5	24	ST2045-5962	20	45	59,5	62,5
ST1226-2024	12	26	20	24	ST2045-6470	20	45	64	70
ST1226-1824*	12	26,5	18	24	ST2240-3240	22	40,5	32	40
ST1226-3236	12	26	32	36	ST2545-5056	25	45	50	56
ST1227-4551	12	27	45	51	ST2550-6267	25	50	62	67
ST1227-6068	12	27	60	68	ST2550-6567	25	50	65,5	67,5
ST1227-7480	12	27	74	80	ST2555-8993	25	55	89,5	93,5
ST1230-2528	12	30	25	28	ST2748-6067	27,8	48	60	67
ST1230-2834	12	30	28	34	ST3055-8994	30	55	89,5	94
ST1230-3444	12	30	34	44	ST3060-6068	30	60	60	68
ST1230-3944	12	30	39	44	ST3065-7070	30	65	70	70
ST1236-3038	12	36	30	38	ST3256-5055	32	56	50	55
ST1330-4040	13	30	40	40	ST4075-8088	40	75	80	88
ST1430-2528	14	30	25	28	ST4075-5770	40	75	57	70
ST1430-6776	14	30	67	76	ST4575-90100	45	75	90	100
ST1434-3240	14	34	32	40	ST5070-6060	50	70	60	60
ST1438-7381	14,2	38	73	81	ST5080-95100	50	80	95	100
ST1438-107116	14,2	38	107	116	ST50100-100110	50	100	100	110
ST1446-3745	14	46	37	45	ST80140-110120	80	140	110	120
					ST100140-110120	100	140	110	120

**Conical mounts – 2 through holes
oval flanges**



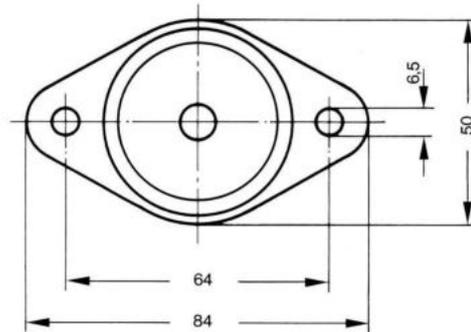
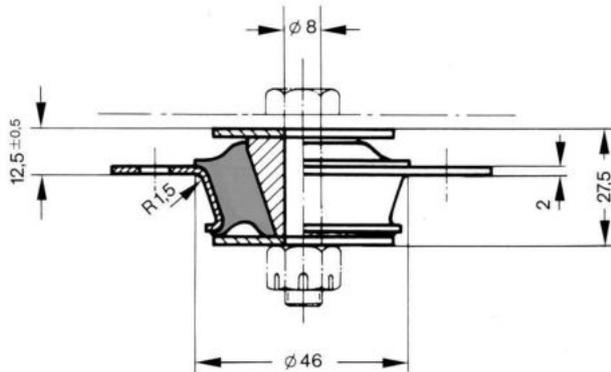
P/N 786021, 786025

**Conical mounts – 4 through holes
rectangular flanges**

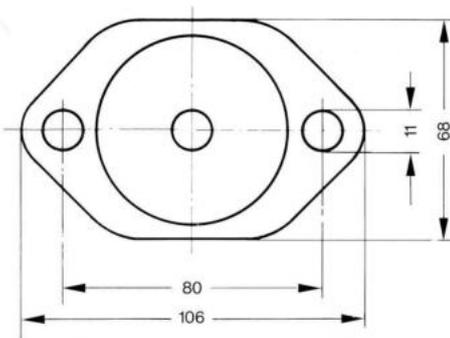
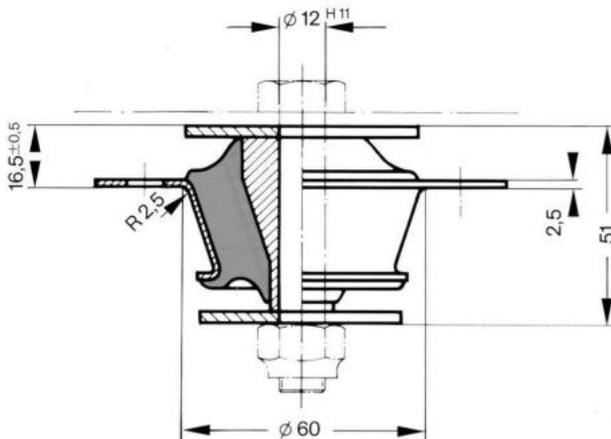


P/N 786026S1, 786027S5, 786030

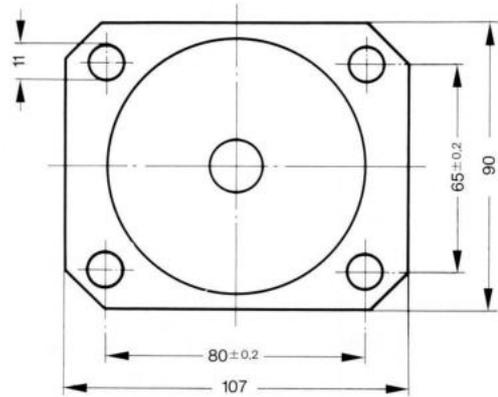
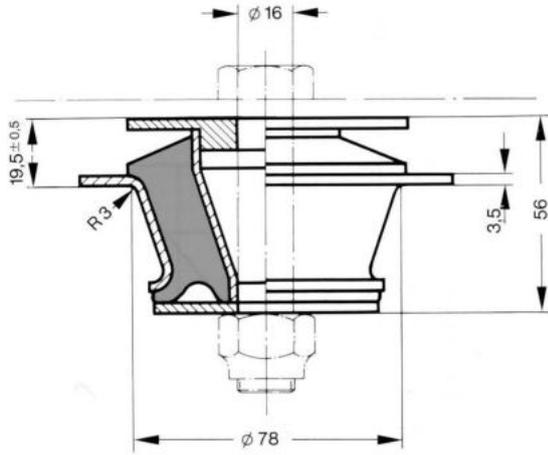
**oval flange - 2 through holes
P/N 786021**



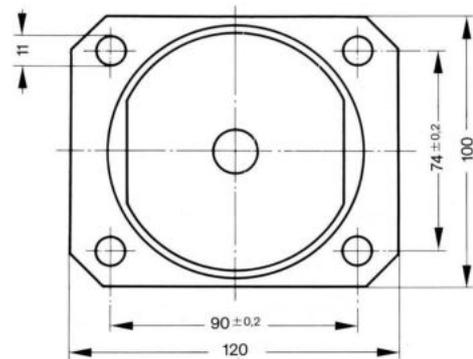
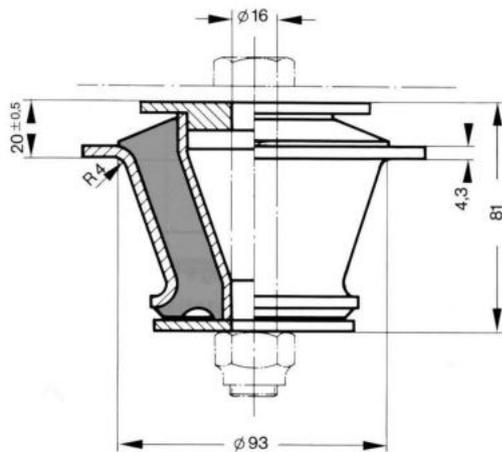
**oval flange - 2 through holes
P/N 786025**



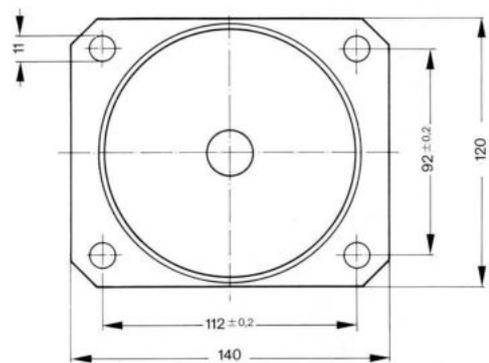
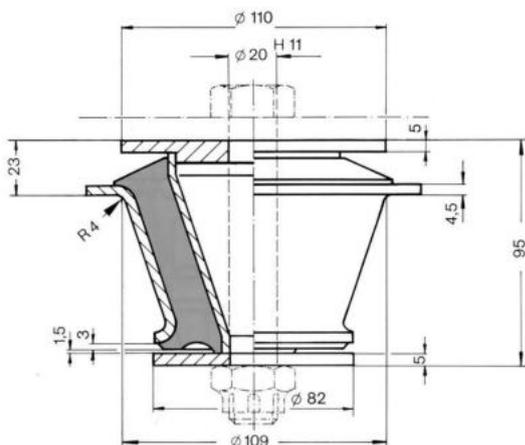
rectangular flange – 4 through holes
 P/N 786026S1



rectangular flange – 4 through holes
 P/N 786027S5



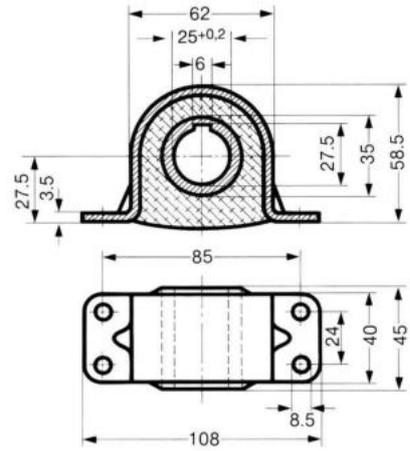
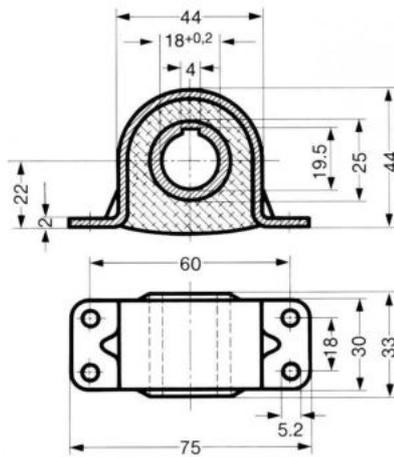
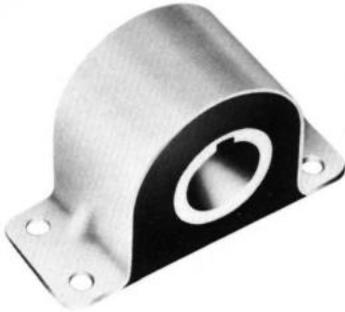
rectangular flange – 4 through holes
 P/N 786030



Pillow block

small
P/N 31510

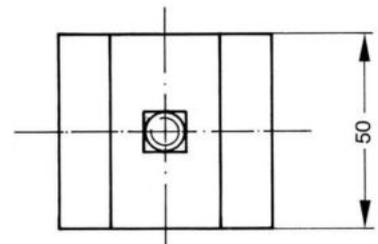
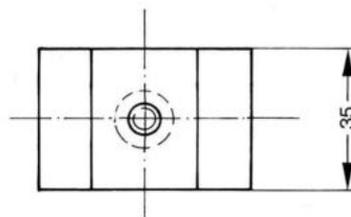
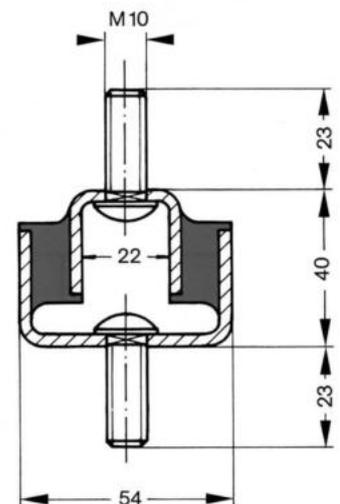
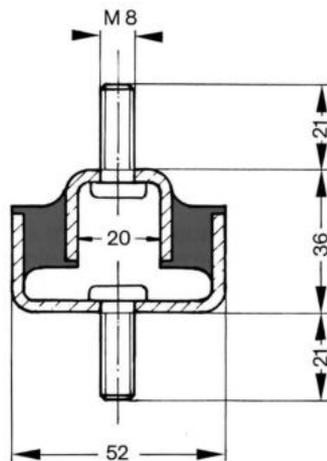
large
P/N 31700



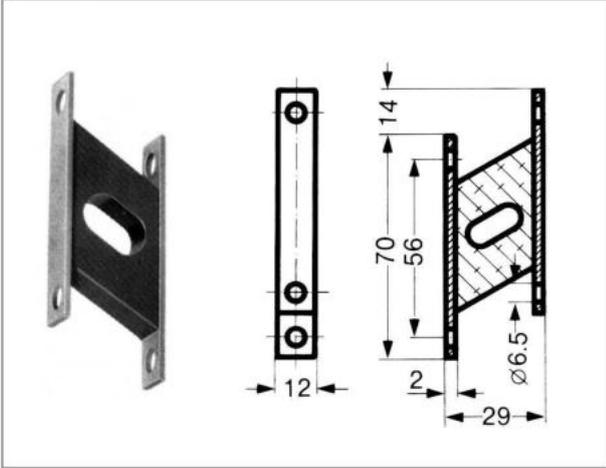
„U“-Mounting

small
P/N 782000

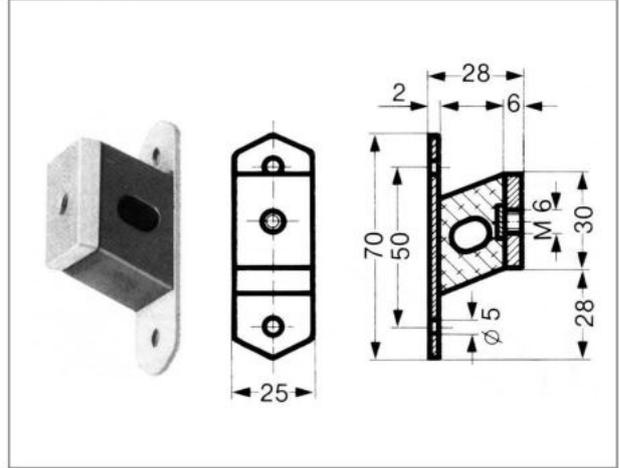
large
P/N 782001



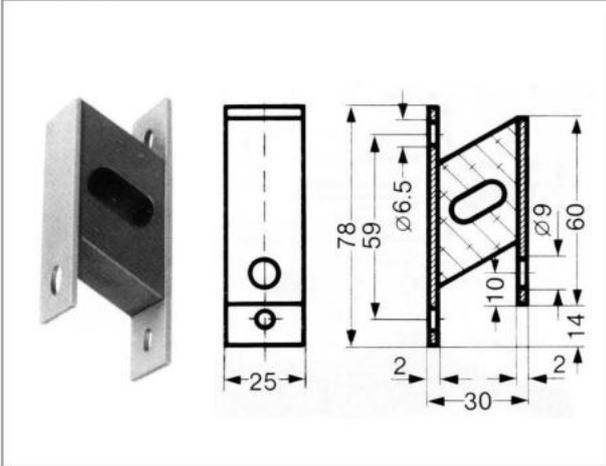
Shear mount
P/N 25187



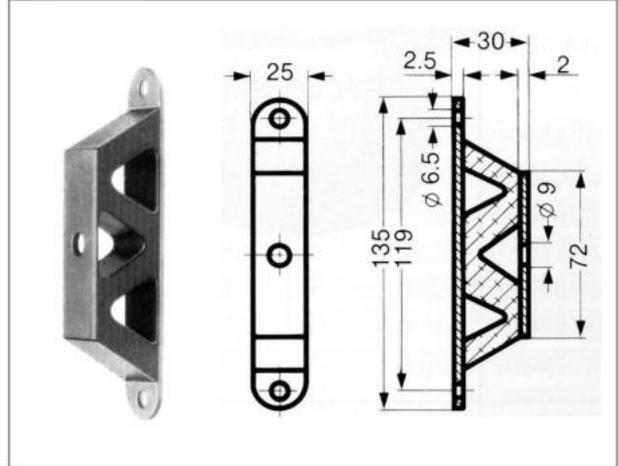
Shear mount
P/N 25284



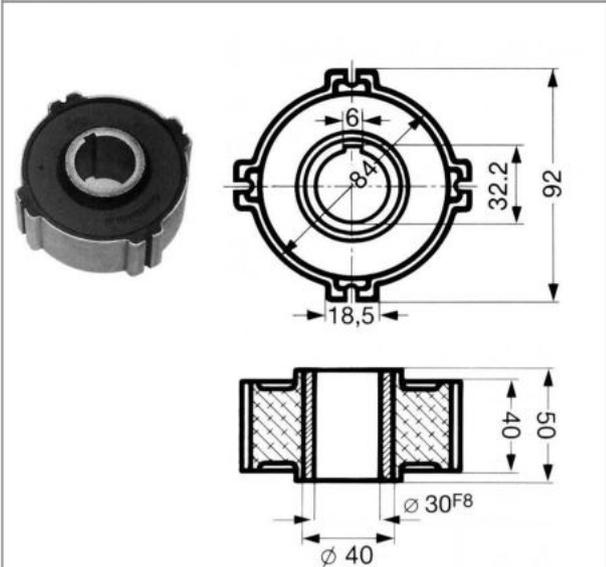
Shear mount
P/N 21423



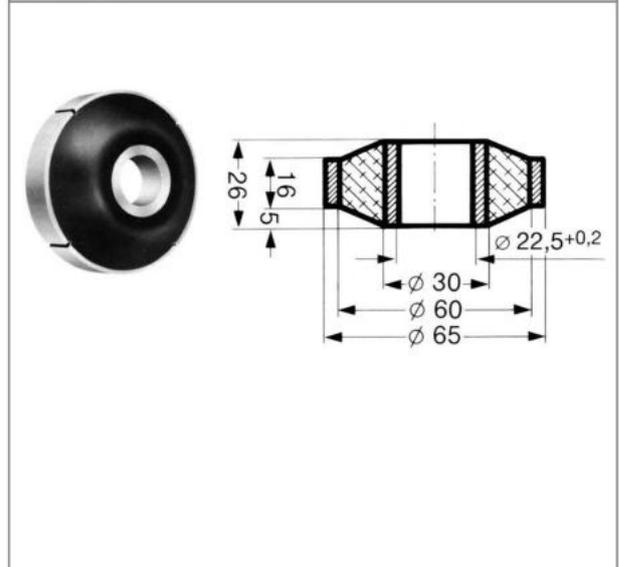
Shear mount
P/N 24332



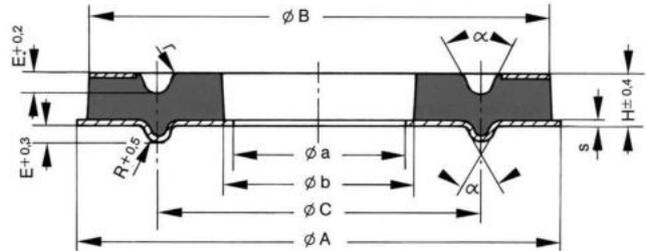
Torsion mount
P/N 27843a



Ring mount
P/N 21489

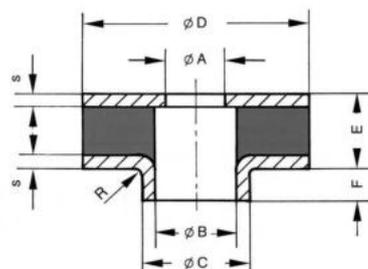


Ring Mountings



P/N		a	B	b	C	H	s	E	α°	R	r
741473	65	26	62	30	46	11	1	2,5	60	2	0,5
741481	95	45	90	50	70	10,5	1,5	2,5	60	2,5	1
741444	100	35	90	40	64	27,5	1,5	3,5	60	3	1
741401	110	30	102	38	76	20,8	1,75	3,5	60	3	1
741409	110	30	102	38	76	25,8	1,75	3,5	60	3	1
741493	110	40	102	44	76	15,8	1,75	3,5	60	3	1
741488	130	55	123	60	90	16	2	5	60	4	2
741433	153	55	145	60	102	16	2	5	60	4	2
741472	153	55	145	60	102	30	2	5	60	4	2
741485	155	75	150	80	115	12	2	5	60	4	2
741486	160	90	155	95	125	12	2	5	60	4	2
741424	164	60	156	64	110	16	2	4	60	4	2
741432	164	60	156	64	110	23	2	4	60	4	2
741482	210	55	200	60	154	20	2	6	60	6	1,2
741436	210	95	200	100	154	20	2	6	60	6	1,2
741407	220	66	200	100	154	62	2	6	60	6	1,2
741434	240	70	230	76	154	25	2	6	60	5	2
741427	265	78	250	90	166	27,8	2,75	7	60	6	2
741483	320	154	310	160	235	18	3	7	100	6	2

Torsional Mountings

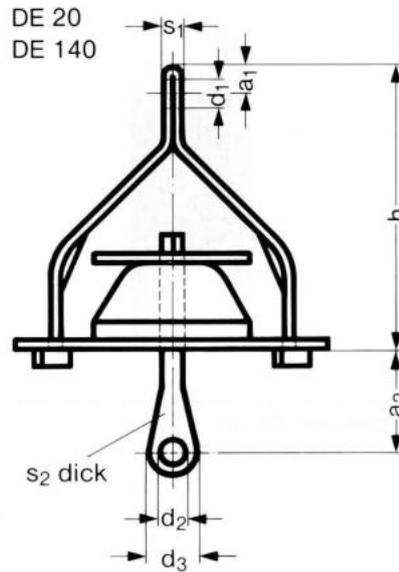


P/N	D	A	B	C	E	F	s	R
741029	36	6,2	-	15	10	6	1	1
741027	36	8,5	12	18	10	4	1	1
741092	36	16,6	-	20	8	3	1	1
741020	50	16,5	20	23	13	9,5	1,5	2,5
741026	60	20,5	24	27	13	10,5	1,5	2,5

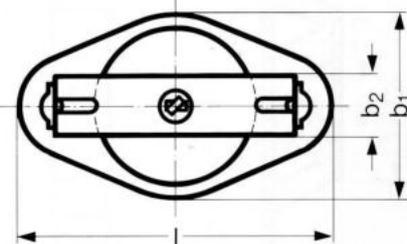
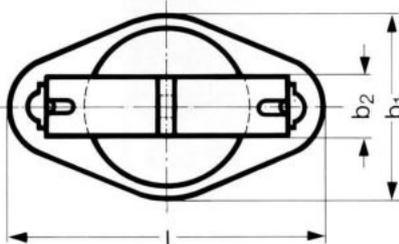
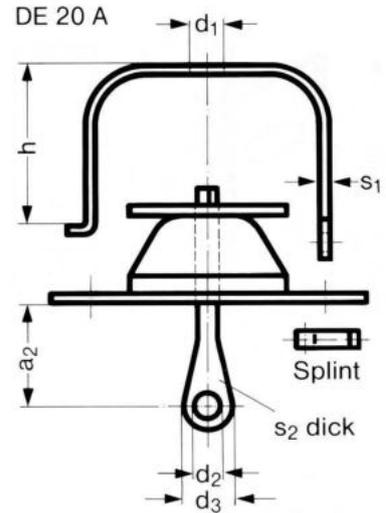
Ceiling Mounts



DE 20
DE 140

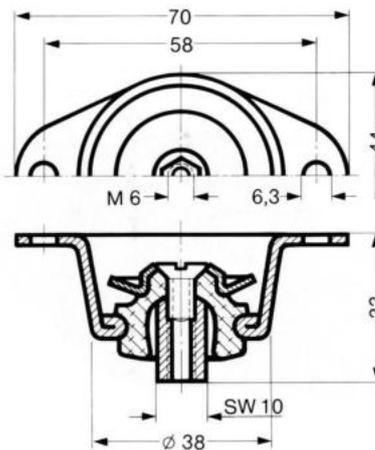


DE 20 A

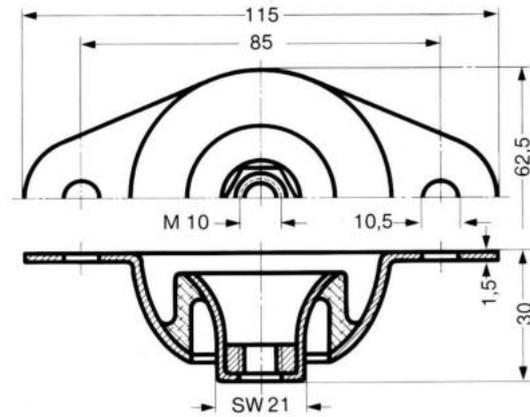


P/N	a1	a2	b1	b2	d1	d2	d3	h	l	s1	s2
DE20	7	35	35	12	5,5	6,5	10	55	60	3	2
DE140	12	20	80	20	8,5	8,5	16	105	140	5	4
DE20 A		35	35	13	6,5	6,5	10	30	60	1,5	2

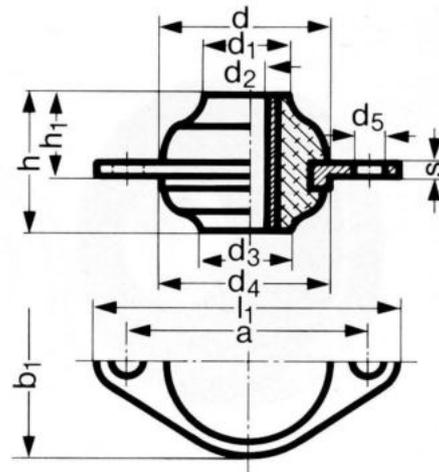
**Bell Mount
P/N 58500**



Bell mount
P/N 27994

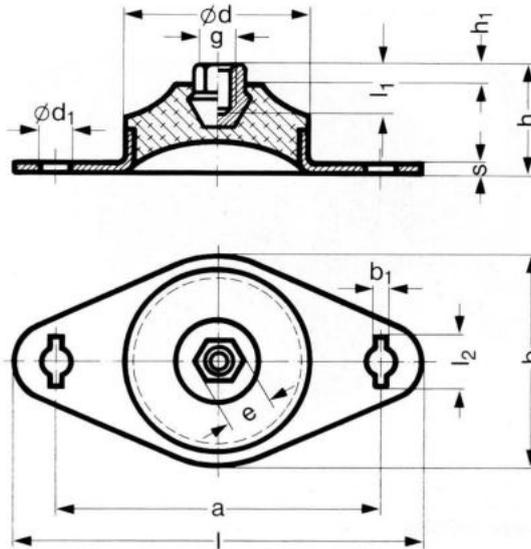


Flange mounts



P/N	d	h	l1	d1	d2	d3	d4	a	b1	h1	d5	s
48684	33	29	58	15,5	8	15,5	-	45	34	21	6,3	6
48685	47	40	90	23	12	22	-	70	48	28	9	8
48686	68	54	117	33	16	37	65	94	71	33	9	5
48687	68	49	117	39	16	37	65	94	71	28	9	5
48688	68	44	117	52	16	48	65	94	71	21	9	5
48689	82	68	150	40	20	42	80	114	90	40	13	6
48690	82	62	150	49	20	42	80	114	90	34	13	6
48691	82	51	150	60	20	53	80	114	90	23	13	6
48692	96	82	174	45	20	47	95	138	108	46	13	8
48693	96	76	174	58	20	47	95	138	108	40	13	8
48694	96	68	174	62	20	63	95	138	108	29	13	8

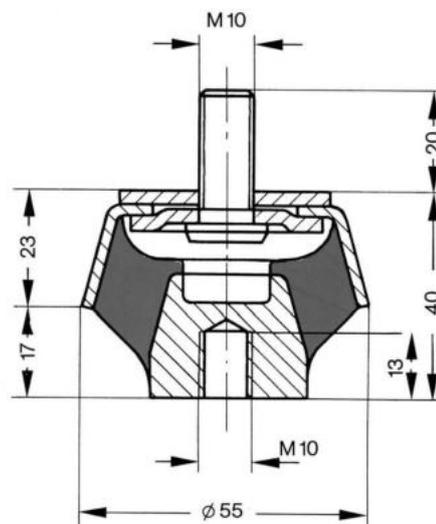
Small compression mounts



P/N	d	b	h	l	a	d1	h1	g	l1	e	s	b1	l2
27860	30	35	20	60	45	6	5	M6	6	SW11	1,5	2	10
27859	45	50	32	90	70	9	8	M10	16	SW17	1,5	-	-
27924	70	80	50	140	105	13	13	M16	17	SW24	2	3	19

Machine mounting

P/N 786012

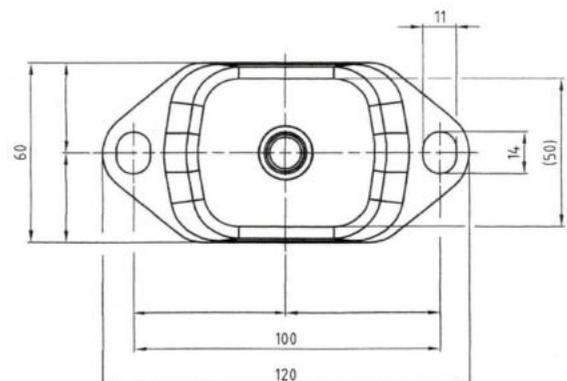
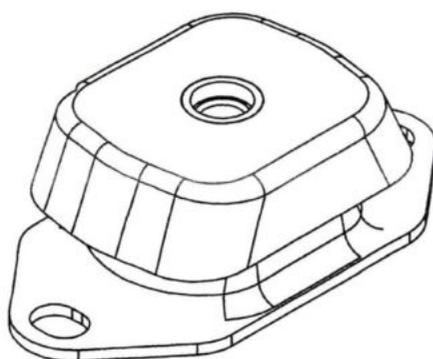
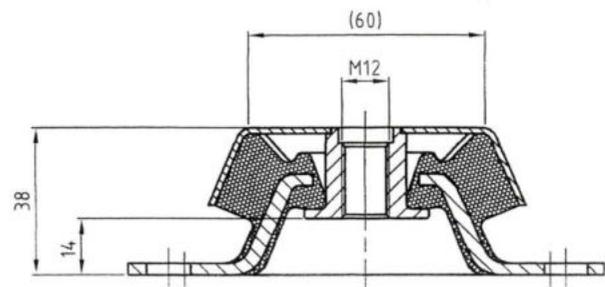


Available ex-stock in NR 60 +/- 5 Shore A – max. static load: 1.000 Newton
designed for light-weight equipment such as small engines or compressors

Machine mounts, cupmounts

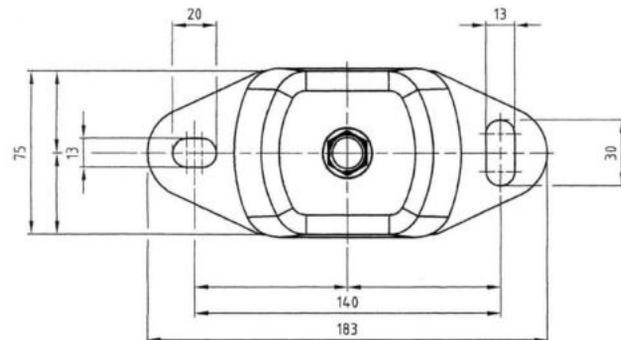
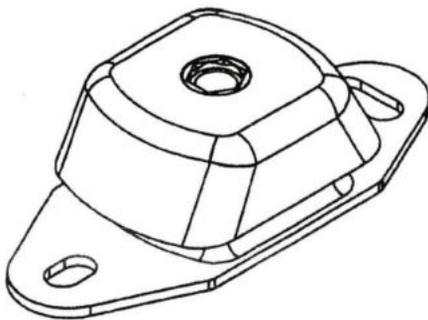
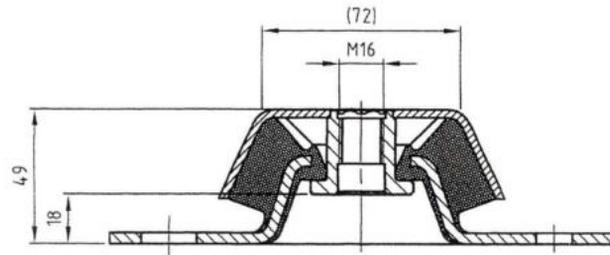
Typical machine mount and cupmount applications include fans, machinery, centrifuges, blowers, numerical control equipment, railroad equipment, motors, pumps and generators.
High vibration dampening characteristics – Provide exceptional performance against shear and compression forces and flexible vertically and stable horizontally – Low-profile, compact design

Machine mounts – square - small



P/N / Type	durometer Shore A	average deflection stiffness N/mm	max. static load N (Newton)	max. deflection mm
ST804012/45	40-45	100	400	4,0
ST804012/50	50	160	600	4,0
ST804012/55	55	220	880	4,0
ST804012/65	65	300	1.200	4,0

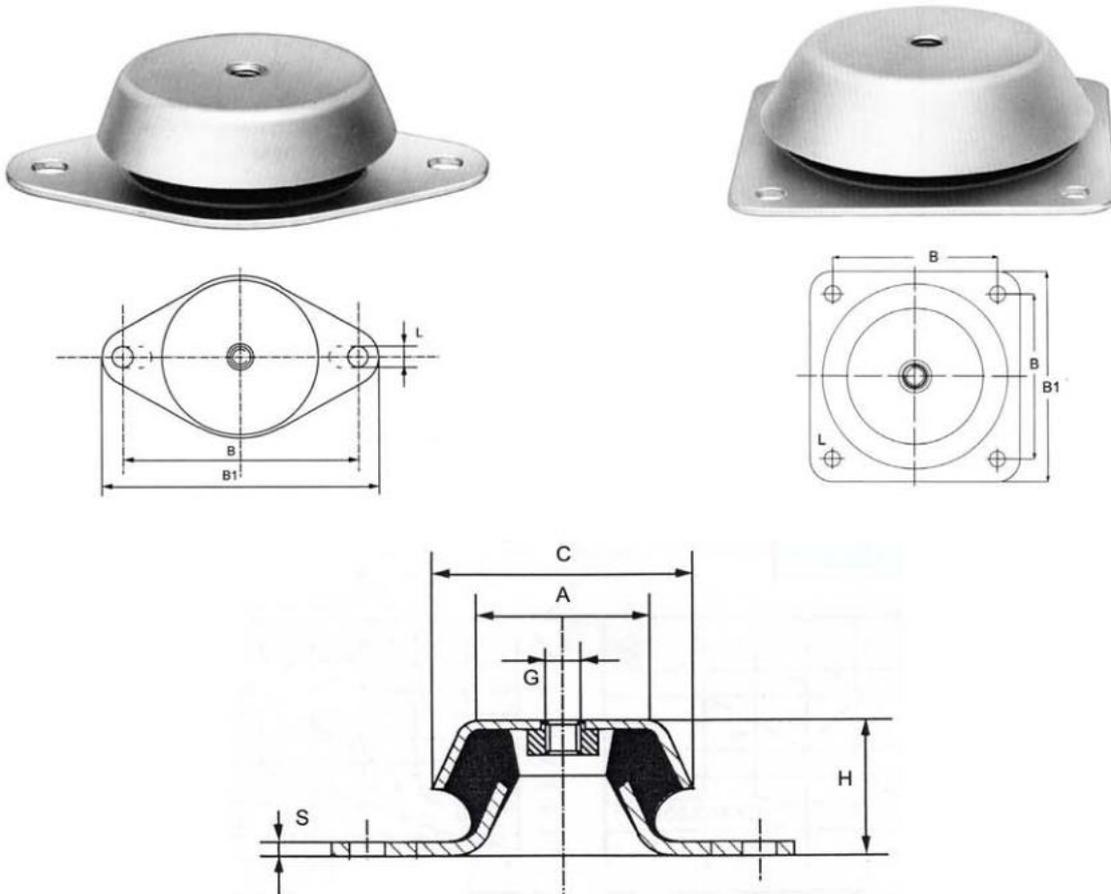
Machine mounts – square - large



P/N / Type	durometer Shore A	average deflection stiffness N/mm	max. static load N (Newton)	max. deflection mm
ST1045016/35	35	180	900	5,0
ST1045016/45	45	290	1.450	5,0
ST1045016/55	55	380	1.900	5,0
ST1045016/65	65	610	3.050	5,0
ST1045016/75	75	850	4250	5,0

Cupmounts – with round or oval flange (also available fail-safe on request)

The cupmounts shown on the following pages are in-stock items in rubber quality Natural Rubber (NR) 60° Shore A. Other durometers or rubber qualities on request.



Cupmounts with oval flange – 2 through holes

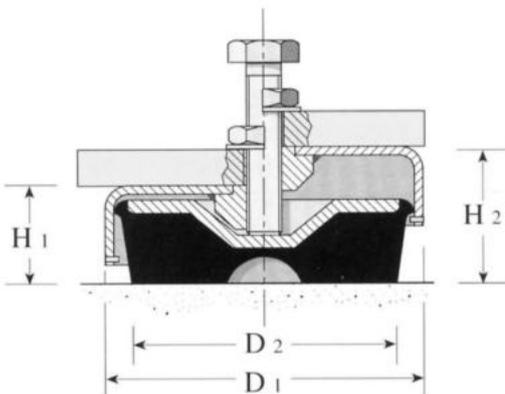
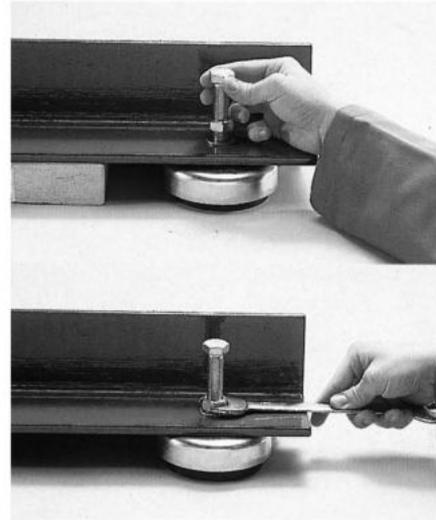
P/N	C	H	A	G	S	L	B	B1	load N*
T1	48	23	38	M8	1,5	6,2	68	81	1.900
T2	62	30	50	M10	3	8,2	85	106	3.900
T9	77	30	59	M10	2	9,0	110	128	3.500
T3	92	45	73,5	M12	3	10,2	110	128	5.800
T8	106	38	81	M12	3	12,4	140	172	8.000
T4	120	50	90	M16	5	16,2	160	190	11.500
T5	160	60	120	M16	3	16,2	200	235	23.000

Cupmounts with square flange – 4 through holes

P/N	C	H	A	G	S	L	B	B1	load N*
T6	150	51,5	110	M16	4	12,5	132x132	168	7.800
T7	177	63	125	M20	4,5	13,0	150x150	184	16.500

*: All load rating informations refer to a durometer of 60° Shore A, permanent static load N = Newton

Machine mounts – leveling mounts



Load ratings
static load per mount in Newton (N)

max 1: for industrial machines (in general)
max 2: for presses or injection molding machines

material:
NBR - Nitrile Rubber 70° Shore A

P/N	D1	D2	H1	H2	adj.	G x L	Load ratings in Newton (N)		
							Min	Max 1	Max 2
0-70	50	36	21	30	9	10x1,5x60	200	2.200	1.500
1-80	78	60	32	44	12	12x1,75x100	600	4.000	3.000
2-80	118	100	39	55	16	16x2,00x100	2.000	12.000	9.000
3-80	160	150	54	70	16	20x1,50x100	5.000	30.000	25.000
4-80	225	210	60	80	20	24x1,50x130	10.000	60.000	40.000
5-80	320	300	70	100	30	30x2,00x200	20.000	110.000	80.000
KA 01	73	53	30	40	10	10x60	600	1.500	800
KA 090	90	73	35	45	10	12x100	1.500	4.200	3.000
KA 015	120	95	35	47	12	12x100	2.000	6.500	4.200
KA 015S	120	95	35	47	12	16x100	2.000	6.500	4.200
KA 02	150	120	40	52	12	16x100	5.000	14.000	8.000
KA 02S	150	120	40	52	12	20x100	5.000	14.000	8.000
KA 03	200	170	45	60	15	20x1,50x120	10.000	34.000	25.000

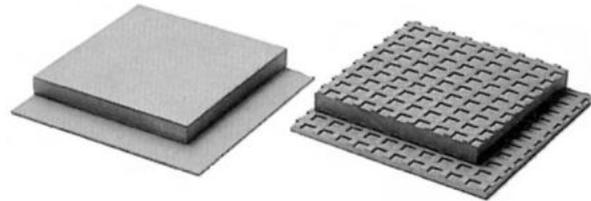
adj.: adjustable height – G x L: thread x bolt length

Anti-vibration pads Squaregrip (SG)

High strength, stiff vibration damping materials for machinery needing stiff vibration damped support with minimum machine movement

Material:

Molded from high grade nitrile rubber reinforced with fine cotton and polyester fibres to increase strength and stiffness. Excellent oil and chemical resistance.



Variants:

SG - Treaded both sides

For maximum friction grip to floor and machine, allowing in many cases for a free standing installation. Tread allows surface irregularities to be absorbed. Tread seals contact surfaces from ingress of oil and other liquids
Applications: machine tools, printing machinery, textile machines, structural damping of machinery

SG - P1 - Tread one side, plain one side

SG - P2 - No tread both sides for higher loadings and stiffness

Applications: Machines requiring some damping with high support stiffness e.g. lathes, machining centres, long bed machines, structural damping

Anti-vibration pads NBR

An elastic vibration damping material with good shock and vibration absorbing capacity

Material: Molded from high grade nitrile (NBR) rubber in various durometers to suit desired loadings, natural frequency and isolation efficiency
Excellent oil and chemical resistance

Variants:

NBR - treaded both sides

Available in durometer from 40-80° Shore A

Treaded one side, plain one side:

NBR-70-5-P1
NBR-70-15-P1



Anti-vibration pads Isomat (IM)

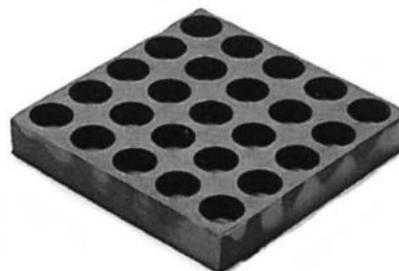
Anti-Vibration pads - "Isomat" - IM

A specially designed highly effective low frequency shock and vibration isolation material - Molded from Nitrile rubber (IM-BR) or Natural rubber (IM-NR)
Molded circular pockets increase elasticity and create trapped air pockets to increase isolation efficiency. Tread pattern on top to increase friction grip between machine and material

Variants:

IM-BR - Material: NBR - nitrile - excellent oil and chemical resistance

IM-NR - Material: NR - Natural Rubber - not oil resistant
IM-BR-50-50 / IM-BR-50-75 and IM-BR-70-50 / IM-BR-70-75 with steel interleaves.



Anti-vibration pads Hamamat (HM)

Anti-Vibration Pads - "Hamamat" - HM

High impact load shock and vibration absorbing material

Material: A compression molded material made up of laminations of nitrile rubber interleaved with a high strength woven nylon fabric.

Excellent oil and chemical resistance, plain, black

Applications:

For structural support of machine tools including: Transfer machines, machining centres, turning machines, lathes.

Impact shock absorption of: forging and forming machinery; forging anvil mats; power presses; rolling mills and metal processing machinery, quarrying and mining machinery



Technical Data

NBR*: Molded from high grade nitrile rubber reinforced with fine cotton and polyester fibres

NBR:** A compression molded material made up of laminations of nitrile rubber interleaved with a high strength woven nylon fabric

Standard sheet-sizes: 1000x500 mm or 500x500 mm - **S:** sheet thickness

Shore A: durometer (tolerances +/-3°) - **temp.:** working temperature range °C

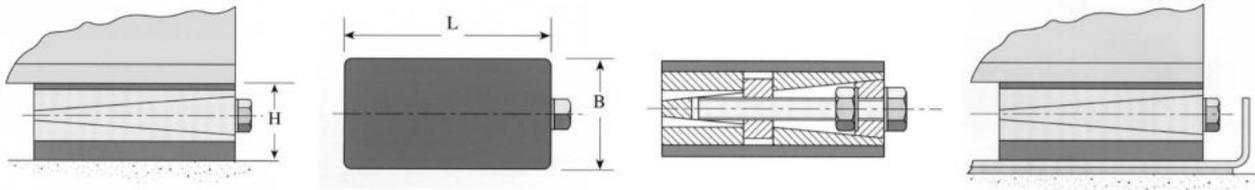
Load rating: static pressure (permanent load) in Newton/mm² or kg/cm²

Type	P/N	material	S	durometer Shore A	temp.	color	load rating N/mm ²	load rating kg/cm ²
SG	SG-6	NBR*	6	90	-30 / +120	green	2,0	20
	SG-15	NBR*	15	90	-30 / +120	green	2,0	20
	SG-5-P1	NBR*	5	90	-30 / +120	green	2,0	20
	SG-15-P1	NBR*	15	90	-30 / +120	green	2,0	20
	SG-2-P2	NBR*	2	90	-30 / +120	green	5,0	50
	SG-5-P2	NBR*	5	90	-30 / +120	green	5,0	50
	SG-14-P2	NBR*	14	90	-30 / +120	green	5,0	50
NBR	NBR-40-8	NBR	8	40	-30 / +120	gray	0,5	5
	NBR-60-8	NBR	8	60	-30 / +120	black	1,0	10
	NBR-70-8	NBR	8	70	-30 / +120	black	1,5	15
	NBR-70-15	NBR	15	70	-30 / +120	black	1,5	15
	NBR-80-25	NBR	25	80	-30 / +120	black	2,0	20
	NBR-70-5-P1	NBR	5	70	-30 / +120	black	1,5	15
	NBR-70-15-P1	NBR	15	70	-30 / +120	black	1,5	15
IM	IM-BR-50-25	NBR	25	50	-30 / +120	black	0,5	5
	IM-BR-50-50	NBR	50	50	-30 / +120	black	0,5	5
	IM-BR-50-75	NBR	75	50	-30 / +120	black	0,5	5
	IM-BR-70-25	NBR	25	70	-30 / +120	black	1,2	12
	IM-BR-70-50	NBR	50	70	-30 / +120	black	1,2	12
	IM-BR-70-75	NBR	75	70	-30 / +120	black	1,2	12
HM	HM-6	NBR**	6	80	-30 / +120	black	6,0	60
	HM-14	NBR**	14	80	-30 / +120	black	6,0	60
	HM-25	NBR**	25	80	-30 / +120	black	6,0	60

Wedgemounts - WL,WLF - Free standing

Machines can be installed and accurately leveled without bolting down or grouting

Height adjustable machine mounts
Based on screw driven three part machined cast iron wedges
Machine performance is improved through effective shock and vibration isolation and damping
Fitted with various types of vibration damping material depending on application (materials as described on pages "Anti-Vibration Pads")
For machines without strong vertical or horizontal dynamic or inertia forces
Ideal for machines without leveling screws - High friction grip and excellent seating on irregular surfaces
Typical applications include: Machine tools, rubber mills, printing machines, large injection molding machines



Styles WL, WLF are fitted with anti-vibration pads acc. to the variants below:

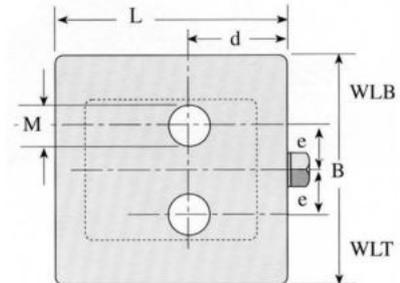
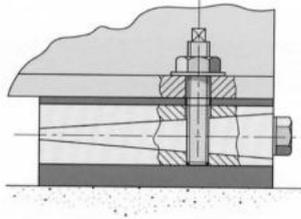
Variant	fitted with pad:		vibration damping grades	applications
	top	bottom		
	SG-5-P1	SG-15-P1	standard	general machine tools, printing machines
B	SG-2-P2	HM-6	stiff	CNS lathes, machining centres, transfer machines
C	SG-2-P2	IM-BR-70-25	elastic	passive isolation of sensitive equipment active isolation of impact machinery, presses etc.
D	NBR-5-P1	NBR-15-P1	flexible	shock absorbing injection molding + diecasting
E	SG-2-P2	SG-2-P2	very stiff	long bed machinery

Type order examples view page 32	dimensions		H height – mid. position					adj.		max. static load/mount (kN)				
	L	B	A	B	C	D	E	+/-	Total	A	B	C	D	E
WL 1	105	55	56	44	63	56	40	4	8	5	6	4	5	15
WL 2	150	75	60	48	67	60	44	5	10	10	13	8	10	30
WLF 1	115	80	60	48	67	60	44	5	10	9	12	7	9	30
WLF 2	115	115	66	54	73	66	50	6	12	13	16	10	13	40
WL 3	200	95	65	53	72	65	49	6	12	19	22	15	19	60
WLF 3	150	150	66	54	73	66	50	6	12	23	30	18	23	70
WL 4	200	200	65	53	72	65	49	6	12	40	50	32	40	120
WL 5	250	115	90	78	97	90	74	9	18	30	40	23	30	90
WL 6	250	220	90	78	97	90	74	9	18	60	80	44	60	160
WL 7	250	330	90	78	97	90	74	9	18	90	100	65	90	250
WL 8	300	400	105	93	112	105	89	9	18	120	150	100	120	350

height H: middle position with pad variants A to E
kN: Kilonewton - adj.: adjustable height

Wedgemounts - WLB - Bolt on

Machines can be installed and accurately leveled without bolting down or grouting



Height adjustable machine mounts

Based on screw driven three part machined cast iron wedges

Machine performance is improved through effective shock and vibration isolation and damping

Fitted with various types of vibration damping material depending on application (materials as described on pages "Anti-Vibration Pads")

Mounts can be attached to machine base to integrate machine and mountings

For machinery with strong vertical or horizontal dynamic or inertia forces or applications where mounts need to be attached to machine. Typical applications include: Machine tools, presses, forging machines, cold headers, large injection molding machines

Style WLB is fitted with anti-vibration pads acc. to the variants below:

Variant	fitted with pad:		vibration damping grades	applications
	top	bottom		
	no pad	SG-15-P1	standard	general machine tools, printing machines etc.
G	no pad	HM-6	stiff	boring and milling machines, grinders
H	no pad	SG-2-P2	very stiff	long bed machinery

Type order examples view page 32	dimensions		H height – mid. pos			adj.		max. static load/mount (kN)			bolt on hole		thread
	L	B	F	G	H	+/-	total	F	G	H	d	e	M*
WLB 1	115	80	55	46	42	6	12	9	12	30	45	15	12x1,75
WLB 2	115	115	61	52	48	6	12	13	16	40	50	24	16x2,00
WLB 3	150	150	61	52	48	6	12	23	30	70	60	24	20x2,50
WLB 4	200	200	60	51	47	6	12	40	50	120	75	27	20x2,50
WLB 6	250	220	85	76	72	9	18	60	80	160	125	62	20x2,50
WLB 7	250	330	85	76	72	9	18	90	100	250	125	117	24x3,00
WLB 8	300	400	100	91	87	9	18	120	150	350	124	125	24x3,00

height H: mid position with pad variants F-H - kN: Kilonewton - adj.: adjustable height

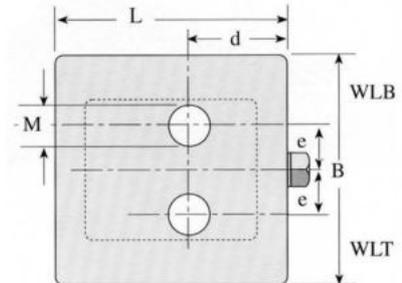
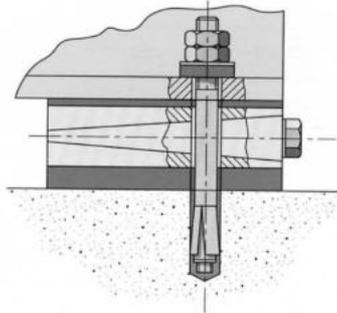
*: also available with bolt on stud assemblies SNW for WLB wedgemounts – supplied as: 1 stud, 1 washer, 1 nut

bolt lengths: pls. see below

Thread	M 12 x 1.75	M 16 x 2.00	M 20 x 2.50	M 24 x 3.00
Bolt Lengths	80	80	-	-
	100	100	100	-
	120	115	-	-
	150	150	150	150
	180	180	180	180

Wedgemounts - WLT - Bolt through

For machines which require bolting down to floors or foundations



For machines which are top heavy or need bolting down
Typical applications include:
Long bed lathes, horizontal broachers

Style WLT is fitted with anti-vibration pads acc. to the variants below:

Variant	fitted with pad:		vibration damping grades	applications
	top	bottom		
	no pad	SG-15 P1	standard	general machine tools, printing machines etc.
G	no pad	HM-6	stiff	boring and milling machines, grinders
H	no pad	SG-2-P2	very stiff	long bed machinery

Type order example see below		dimensions		H Heights – mid pos. with pad variant:			adjustable height		max. load/mount (kN) Kilonewton			bolt on hole		
		L	B	F	G	H	+/-	total	F	G	H	d	e	M*
WLT	1	115	80	55	46	42	6	12	9	12	30	45	15	14
WLT	2	115	115	61	52	48	6	12	13	16	40	50	24	18
WLT	3	150	150	61	52	48	6	12	23	30	70	60	24	22
WLT	4	200	200	60	51	47	6	12	40	50	120	75	27	22
WLT	6	250	220	85	76	72	9	18	60	80	160	125	62	22
WLT	7	250	330	85	76	72	9	18	90	100	250	125	117	26
WLT	8	300	400	100	91	87	9	18	120	150	350	124	125	26

height H: mid position with pad variants F-H

*: also available with washers AW 12, AW 16, AW 20, AW 24 - Hold down bolts customer supply

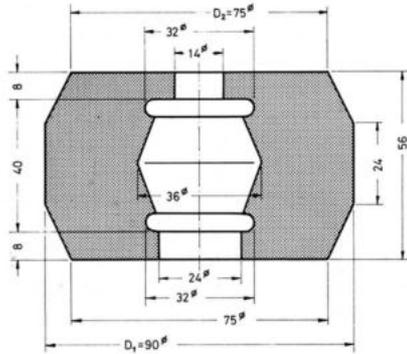
Order examples

Please specify type / size / pad variant / assembly

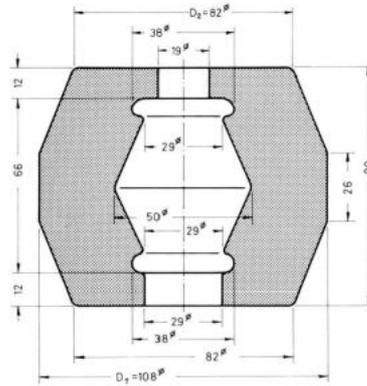
WL	2	C		Free standing – size 2 – anti-vibration pads variant „C“
WLB	6	G		Bolt on – size 6 – anti-vibration pads variant „G“ – without stud assembly
WLB	4	H	SNW M20x2,50x150	Bolt on – size 4 – anti-vibration pads variant „H“ - with stud assembly
WLT	3	F		Bolt through – size 3 – anti-vibration pads variant „F“ – without washer
WLT	8	G	AW 24	Bolt through – size 8 – anti-vibration pads variant „G“ – with washer AW 24

Single convolution springs - standard material NR/SBR 60-70° Shore
 other designs available on request (also double convolution springs)

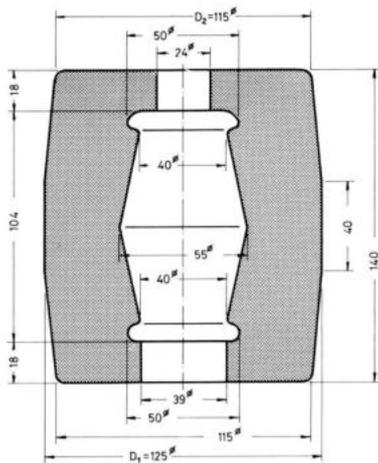
P/N TO 56/90



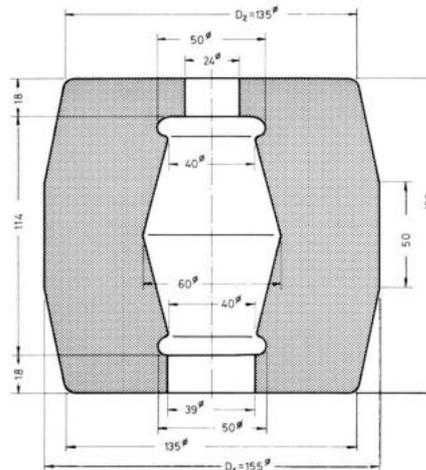
P/N TO 90/108



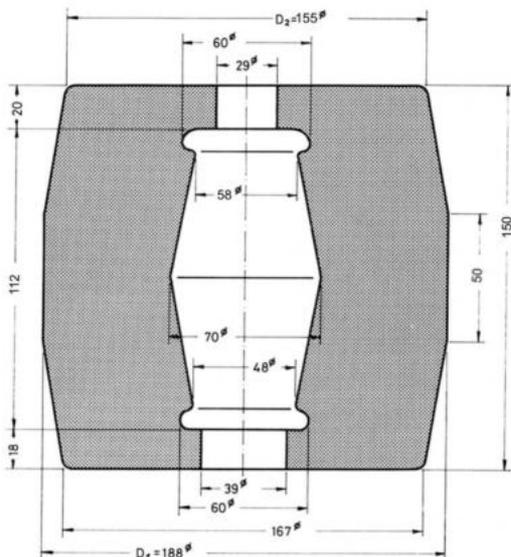
P/N TO 140/125



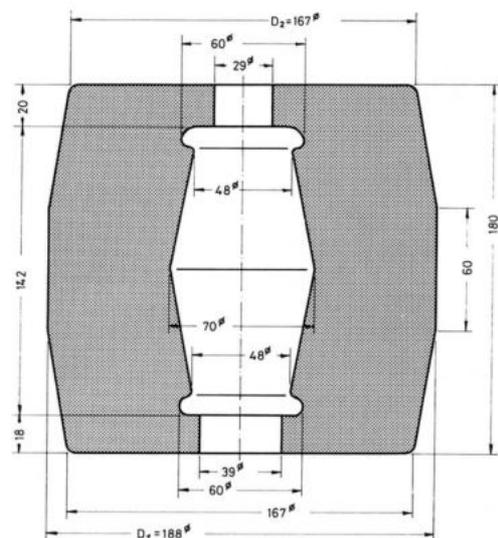
P/N TO 150/155



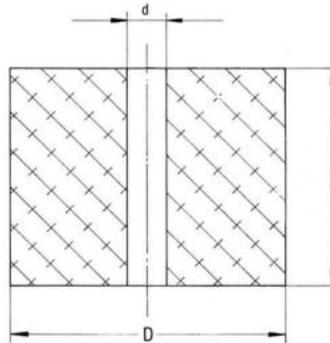
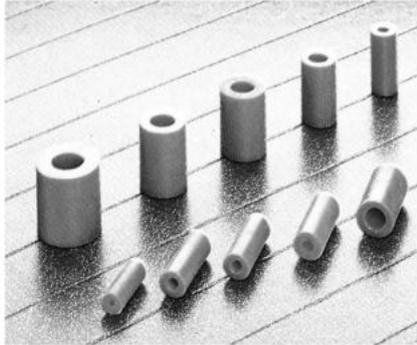
P/N TO 150/188



P/N TO 180/188



Hollow springs



Material:

rubber CR 70° Shore A

or

Polyurethane 90° Shore A, red

P/N	D	d	l	P/N	D	d	l	P/N	D	d	l
1612	16	6,5	12	5032	50	17,0	32	10032	100	21,0	32
1616	16	6,5	16	5040	50	17,0	40	10040	100	21,0	40
1620	16	6,5	20	5050	50	17,0	50	10050	100	21,0	50
1625	16	6,5	25	5063	50	17,0	63	10063	100	21,0	63
16200	16	6,5	200	5080	50	17,0	80	10080	100	21,0	80
				50100	50	17,0	100	100100	100	21,0	100
2016	20	8,5	16	50500	50	17,0	500	100125	100	21,0	125
2020	20	8,5	20					100500	100	21,0	500
2025	20	8,5	25	6332	63	17,0	32				
2032	20	8,5	32	6340	63	17,0	40	12532	125	27,0	32
20290	20	8,5	290	6350	63	17,0	50	12540	125	27,0	40
				6363	63	17,0	63	12550	125	27,0	50
2520	25	10,5	20	6380	63	17,0	80	12563	125	27,0	63
2525	25	10,5	25	63100	63	17,0	100	12580	125	27,0	80
2532	25	10,5	32	63125	63	17,0	125	125100	125	27,0	100
2540	25	10,5	40	63500	63	17,0	500	125125	125	27,0	125
25290	25	10,5	290					125160	125	27,0	160
				8032	80	21,0	32	125500	125	27,0	500
3232	32	13,5	32	8040	80	21,0	40				
3240	32	13,5	40	8050	80	21,0	50				
3250	32	13,5	50	8063	80	21,0	63				
3263	32	13,5	63	8080	80	21,0	80				
32500	32	13,5	500	80100	80	21,0	100				
				80125	80	21,0	125				
4032	40	13,5	32	80500	80	21,0	500				
4040	40	13,5	40								
4050	40	13,5	50								
4063	40	13,5	63								
4080	40	13,5	80								
40500	40	13,5	500								

Rubber bumpers – 2 holes



P/N	H	L	W	holes	h-dist
133007-15	15	125	40	2	60
133007-40	40	125	40	2	60
133007-50	50	125	43	2	60
133007-70	70	125	43	2	60

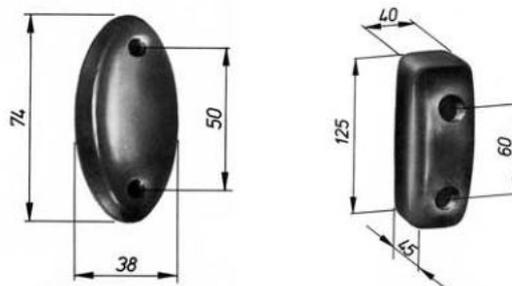
Rubber bumpers – 2-, 3-, 4-holes



P/N	H	L	W	holes	h-dist.
133000	60	200	52	2	120
133003	80	200	52	2	120
133001	60	300	52	3	115
133004	80	300	52	3	115
133002	60	400	52	3	165
133005	80	400	52	3	165
601370	35	530	60	4	157

H=height L=length W=width H-dist=distance between holes

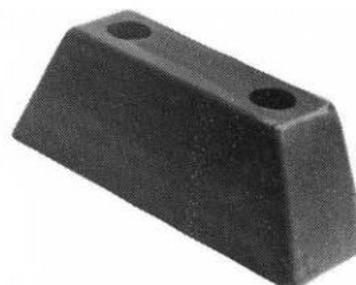
Rubber bumpers



	H	L	W	holes	h-dist
601300	24	74	38	2	50
oval					
601310	45	125	40	2	60
rectangular					

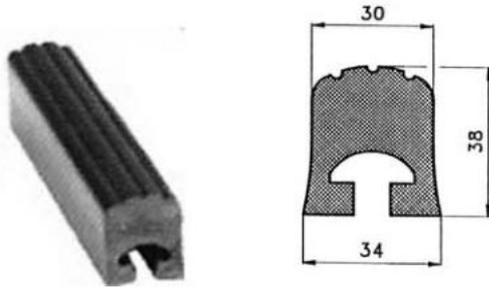
Rubber bumpers

with bevelled edges or rectangular shape



	H	L	W	holes	h-dist.
133010	93	243	82	2	120
TM4003	70	170	90	2	82
133011	80	200	150	4	75/115

PVC bumper – (hard PVC)



P/N	dimensions
001055/3	view sketch cut to lengths of 3.000 mm

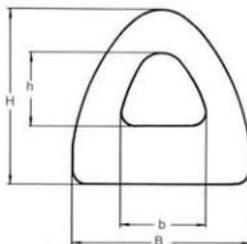
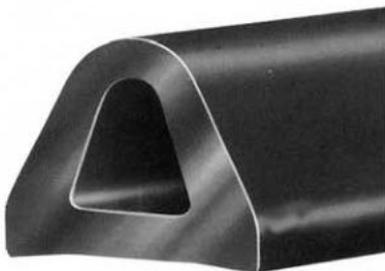
Hood rubber bumpers



metal parts included

P/N	length
123000	125 mm – large
122999	63 mm – small

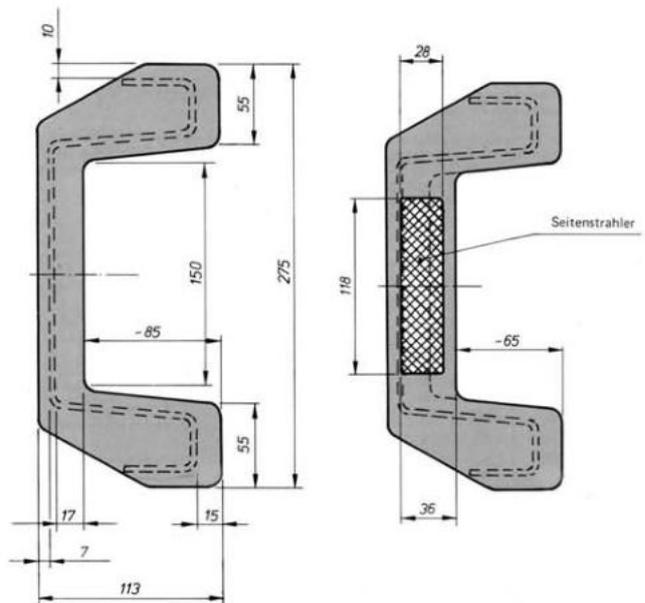
„D“-profiles



cut to lengths of 5.200 mm
material: Natural Rubber (NR) 70° Shore A

P/N	H	B	h	b	kg/m
RP52-60	52	60	30	30	2
RP67-79	67	79	40	48	3
RP90-110	90	110	55	70	7

Rubber bumper guard



P/N	dimensions
TE734	view sketch

Mudflaps



monogrammed or with color print

P/N	width	height		P/N	width	height
237	240	300		257	450	350
247	350	300		267	530	370
287	400	300		277	620	400

Mudflaps



monogrammed, relief

P/N	width	height		P/N	width	height
289	400	300		279	620	400
259	450	350		251	600	350
269	530	370		252	600	400

Mudflaps

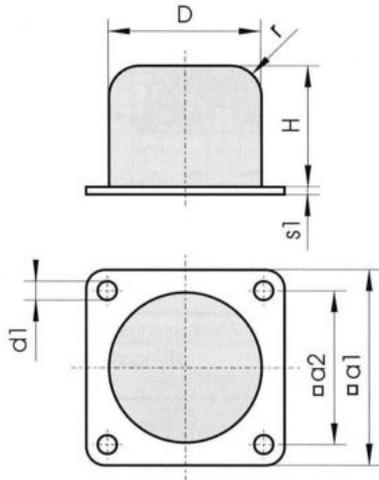


plain black

P/N	width	height		P/N	width	height
236	240	300		266	530	370
246	350	300		276	620	400
286	400	300		741	2400	380
256	450	350		841	2400	380

customized solutions – not held in stock
other styles upon request

QP – with square flange

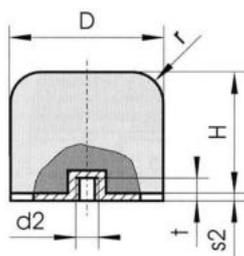


material: standard in NR/SBR 70 +/- 5 Shore A
other elastomers upon request

metal plates: zinc plated steel

P/N	D	H	a1	a2	d1	r	s1
40x32	40	32	50	40	5,5	8	2
50x40	50	40	63	50	6,5	10	3
63x50	63	50	80	63	6,5	12,5	4
80x63	80	63	100	80	9	18	5
100x80	100	80	125	100	9	20	6
125x100	125	100	160	125	11	25	6
160x125	160	125	200	160	11	32	8
200x160	200	160	250	200	13	40	8

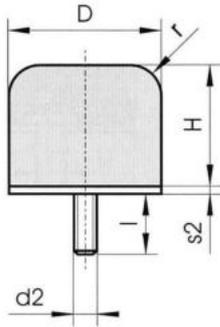
GP-1I – with single insert



material: standard in NR/SBR 70 +/- 5 Shore A
other elastomers upon request

P/N	D	H	d2	r	s2	t
40x32	40	32	M8	8	2	8
50x40	50	40	M10	10	2	10
63x50	63	50	M10	12,5	3	10
80x63	80	63	M12	18	3	12
100x80	100	80	M12	20	4	12
125x100	125	100	M16	25	4	16
160x125	160	125	M16	32	6	16
200x160	200	160	M20	40	6	18

GP-1G – with single stud

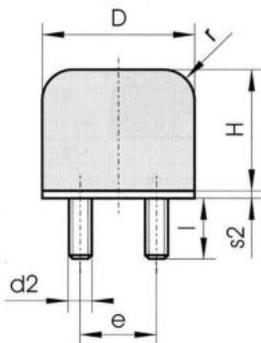


material: standard in NR/SBR 70 +/- 5 Shore A
other elastomers upon request

metal plates: zinc plated steel

P/N	D	H	d2	l	r	s2
40x32	40	32	M8	23	8	2
50x40	50	40	M10	28	10	2
63x50	63	50	M10	28	12,5	3
80x63-M10	80	63	M10	28	18	3
80x63-M12	80	63	M12	37	18	3
100x80	100	80	M12	36	20	4
125x100	125	100	M16	36	25	4
160x125	160	125	M16	44	32	6
200x160	200	160	M20	44	40	6

GP-2G – with two studs



material: standard in NR/SBR 70 +/- 5 Shore A
other elastomers upon request

metal plates: zinc plated steel

P/N	D	H	d2	l	r	e	s2
100x80	100	80	M12	36	20	50	4
125x100	125	100	M16	36	25	63	4
160x125	160	125	M16	44	32	80	6
200x160	200	160	M20	44	40	100	6

Crane bumpers - Polyurethane

Polyurethane crane bumpers
available with square flange, single stud, single insert or two studs

material: cellular polyurethane
density: 0,5 to 0,55 g/cm³

BS – bumper sizes:

The crane bumpers below come in a wide range of diameters and in 3 sizes each diameter:

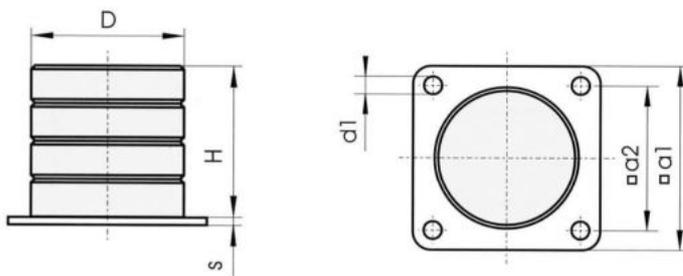
bumper size 1: diameter to height in a ratio of 1,0 : 0,5 – cylindrical shape

bumper size 2: diameter to height in a ratio of 1,0 : 1,0 – conical shape

bumper size 3: diameter to height in a ratio of 1,0 : 1,5 – cylindrical shape

Part Number = Ø D x height H

Crane bumper – with square flange

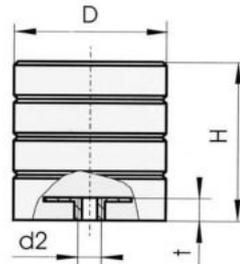
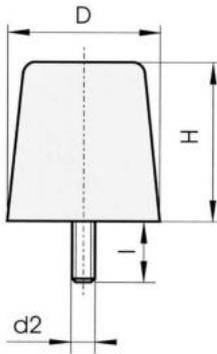


material flange:

D = 80 – 200 mm: aluminium
D = 250 – 600 mm: steel, rust-protected

BS	Ø Dxheight H	a1	a2	s	d1	BS	Ø Dxheight H	a1	a2	s	d1
1	80x40	110	80	10	12,5	1	250x125	315	250	15	21,0
2	80x80	110	80	10	12,5	2	250x250	315	250	15	21,0
3	80x120	110	80	10	12,5	3	250x375	315	250	15	21,0
1	100x50	125	100	10	12,5	1	315x158	400	315	15	21,0
2	100x100	125	100	10	12,5	2	315x315	400	315	15	21,0
3	100x150	125	100	10	12,5	3	315x475	400	315	15	21,0
1	125x63	160	125	12	17,0	1	400x200	500	400	20	25,0
2	125x125	160	125	12	17,0	2	400x400	500	400	20	25,0
3	125x190	160	125	12	17,0	3	400x600	500	400	20	25,0
1	160x80	200	160	12	17,0	1	500x250	630	500	20	25,0
2	160x160	200	160	12	17,0	2	500x500	630	500	20	25,0
3	160x240	200	160	12	17,0	3	500x750	630	500	20	25,0
1	200x100	250	200	14	21,0	1	600x300	730	600	20	25,0
2	200x200	250	200	14	21,0	2	600x600	730	600	20	25,0
3	200x300	250	200	14	21,0	3	600x900	730	600	20	25,0

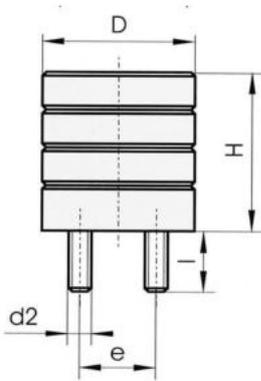
Crane bumper – with single stud or single insert



BS		with single stud		BS		with single insert	
		d2	l			d2	t
2	70x70	M12	35	2	70x70	M12	12,5
1	80x40	M12	35	1	80x40	M12	12,5
2	80x80	M12	35	2	80x80	M12	12,5
3	80x120	M12	35	3	80x120	M12	12,5
1	100x50	M12	35	1	100x50	M12	12,5
2	100x100	M12	35	2	100x100	M12	12,5
3	100x150	M12	35	3	100x150	M12	12,5
1	125x63	M12	35	1	125x63	M12	14,0
2	125x125	M12	35	2	125x125	M12	14,0
3	125x190	M12	35	3	125x190	M12	14,0
1	160x80	M12	35	1	160x80	M12	14,0
2	160x160	M12	35	2	160x160	M12	14,0
3	160x240	M12	35	3	160x240	M12	14,0
1	200x100	M12	35	1	200x100	M12	14,0
2	200x200	M12	35	2	200x200	M12	14,0
3	200x300	M12	35	3	200x300	M12	14,0
1	250x125	M24	80	1	250x125	M24	25,0
2	250x250	M24	80	2	250x250	M24	25,0
3	250x375	M24	80	3	250x375	M24	25,0
1	315x158	M24	80	1	315x158	M24	25,0
2	315x315	M24	80	2	315x315	M24	25,0
3	315x475	M24	80	3	315x475	M24	25,0
1	400x200	M30	80	1	400x200	M30	30,0
2	400x400	M30	80	2	400x400	M30	30,0
3	400x600	M30	80	3	400x600	M30	30,0

BS: bumper size – for description please view page 40

Crane bumper – with 2 studs

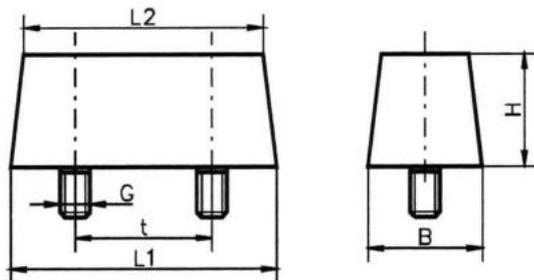


BS: bumper size
for description please view
page 40

	Ø Dxheight H	d2	l	e		BS	Ø Dxheight H	d2	l	e
1	100x50	12	35	50		1	250x125	24	80	125
2	100x100	12	35	50		2	250x250	24	80	125
3	100x150	12	35	50		3	250x375	24	80	125
1	125x63	12	35	63		1	315x158	24	80	160
2	125x125	12	35	63		2	315x315	24	80	160
3	125x190	12	35	63		3	315x475	24	80	160
1	160x80	12	35	80		1	400x200	30	80	200
2	160x160	12	35	80		2	400x400	30	80	200
3	160x240	12	35	80		3	400x600	30	80	200
1	200x100	12	35	100						
2	200x200	12	35	100						
3	200x300	12	35	100						

Rubber bumper RP-2G
with two studs

material: Natural Rubber (NR) 70 +/- 5 Shore A

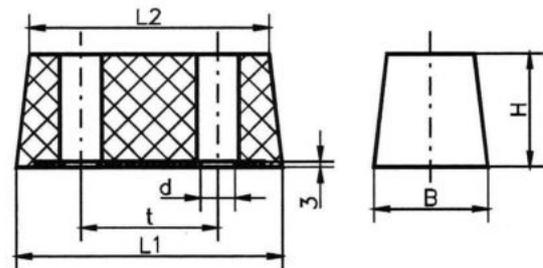


P/N	L1	L2	B	H	t	G
150	150	136	60	60	70	M10x32
150S	150	140	60	30	70	M10x32
200	200	168	100	100	90	M12x36

order example: RP-2G/150

Rubber bumper RP-0G
with through holes

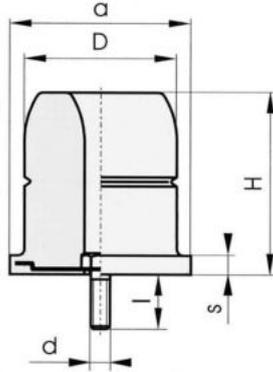
material: Natural Rubber (NR) 70 +/- 5 Shore A



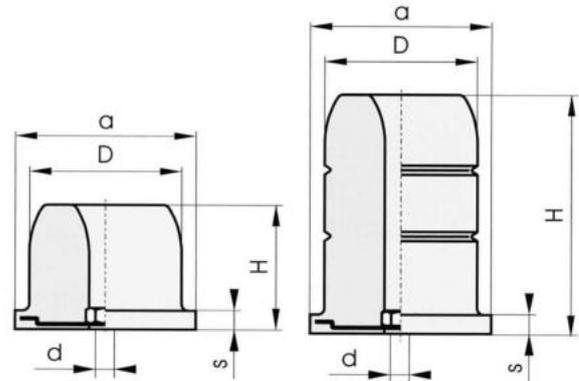
P/N	L1	L2	B	H	t	d
150	150	136	60	60	70	11
150S	150	140	60	30	70	11
200	200	168	100	100	90	13

order example: RP-0G/150

PU-spring HF-1G – with single stud



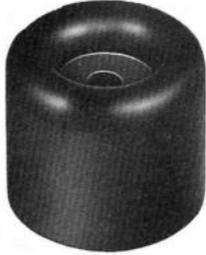
PU-spring HF-1I – with single insert



D x height H	a	s	d	l	D x height H	a	s	d
50x40	60	6	M8	30	50x40	60	6	M8
50x60	60	6	M8	30	50x60	60	6	M8
50x75	60	6	M8	30	50x75	60	6	M8
63x50	80	10	M8	30	63x50	80	10	M8
63x75	80	10	M8	30	63x75	80	10	M8
63x95	80	10	M8	30	63x95	80	10	M8
80x65	95	10	M10	30	80x65	95	10	M10
80x95	95	10	M10	30	80x95	95	10	M10
80x125	95	10	M10	30	80x125	95	10	M10
100x80	120	12	M12	30	100x80	120	12	M12
100x120	120	12	M12	30	100x120	120	12	M12
100x150	120	12	M12	30	100x150	120	12	M12
112x90	135	12	M12	35	112x90	135	12	M12
112x130	135	12	M12	35	112x130	135	12	M12
112x170	135	12	M12	35	112x170	135	12	M12
125x100	145	12	M14	35	125x100	145	12	M14
125x150	145	12	M14	35	125x150	145	12	M14
125x190	145	12	M14	35	125x190	145	12	M14
140x110	165	15	M14	35	140x110	165	15	M14
140x165	165	15	M14	35	140x165	165	15	M14
140x210	165	15	M14	35	140x210	165	15	M14
160x130	185	15	M16	40	160x130	185	15	M16
160x185	185	15	M16	40	160x185	185	15	M16
160x240	185	15	M16	40	160x240	185	15	M16
180x145	210	15	M20	50	180x145	210	15	M20
180x210	210	15	M20	50	180x210	210	15	M20
180x270	210	15	M20	50	180x270	210	15	M20
200x160	230	15	M20	50	200x160	230	15	M20
200x235	230	15	M20	50	200x235	230	15	M20
200x300	230	15	M20	50	200x300	230	15	M20

material: Vulkollan® , Desmodur 15, density = 0,5 g/cm³
metal plates: zinc plated steel

Stopper
cylindrical



material: NR/SBR
80° Shore A

Stopper
conical

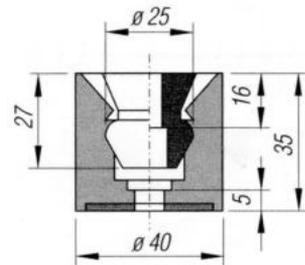
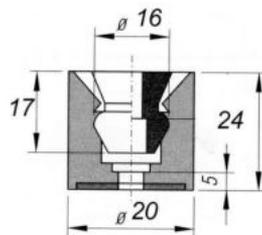
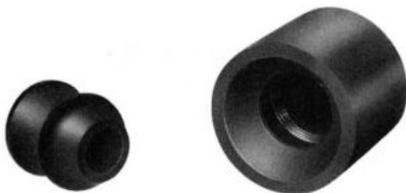


material: NR/SBR
80° Shore A

P/N	F	Ø	H	B		P/N	F	Ø	H	B		P/N	F	Ø	H	B
3350	s	26	29	5		3358	s	40	25	6		3305	s	20	10	5,0
3351	r	26	29	5		3359	r	40	25	6		3306	r	20	10	5,0
3352	g	26	29	5		3360	g	40	25	6		3307	g	20	10	5,0
3353	h	26	29	5		3361	h	40	25	6		3308	h	20	10	5,0
						121001	s	40	25	7		3309	s	25	10	4,5
3354*	s	28	25	6		3362	s	40	31	6		3310	r	25	10	4,5
3355*	r	28	25	6		3363	r	40	31	6		3311	g	25	10	4,5
3356*	g	28	25	6		3364	g	40	31	6		3312	h	25	10	4,5
3357*	h	28	25	6		3365	h	40	31	6		536/Sch	s	30	17	6
						121002	s	40	35	7						
3371	s	30	32	6		3366	s	40	46	6						
3372	r	30	32	6		3367	r	40	46	6						
3373	g	30	32	6		3368	g	40	46	6						
3374	h	30	32	6		3369	h	40	46	6						

F=color H=height B=bore - s=black r=red g=gray h=light-colored
*: slightly conical

Door holders



rubber and plastic part
also available separately

P/N	dimensions
	small
SI9	view sketch

P/N	dimensions
	large
SI1	view sketch

Rubber Molding



Custom rubber
molded parts
to your
specifications

Please fax us your
drawings specifications
or samples so we can
provide you a quotation
on custom parts and
shapes.

Available in all
commonly used
elastomers
(s. page 101-107)

Standard parts and customized solutions

Rubber molded parts are used throughout industry and there is almost no limit to color, shape or size. From standard molds and dies we supply many standard sizes of grommets, bumpers, stops or plugs.

We can also produce custom molded parts in a wide variety of natural and synthetic elastomers in any shape or configuration exactly to your specifications.

In order to give you best assistance, either in the development phase or when choosing the proper material for your parts and application it will be helpful to know more about the environment conditions under which the parts must work. When submitting requests, please provide us with all relevant information which can be:

Function sketch and/or detailed application description - Operating temperature - Mechanical stresses ? - Exposure to chemical media ? Weathering/ozone resistance required ? - Tooling already existing or prototype ?

Already manufactured:

Buffers, seals, gaskets, feet, membranes, flanges, grommets, caps, plugs, handles, tubes, rings, balls, sleeves, bumpers

Overview

Edge trims: Flexible profiles (mostly made of PVC) with inside metal clips which provide permanent grip and are used as edge guards

Trim Seals made of PVC/Sponge rubber and Rubber/Sponge rubber

Double function seals – edge protection combined with sealing function of doors etc.

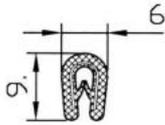
- **Co-extruded trim seals PVC/Sponge rubber:** Edge protection - flexible PVC profile with inside metal clips / Sealing area - sponge rubber profile sealed on the PVC profile
- **Co-extruded trim seals Rubber/Sponge rubber:** Edge protection - rubber profile with inside metal clips / Sealing area - sponge rubber profile. Both extruded profiles are bonded by vulcanization.

Bulb seals, door seals, weatherstrips, glass support profiles and miscellaneous profiles

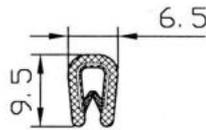
All profiles shown are available ex-stock. For purchase units or minimum order quantities please see detail description.

P/N	profile	p.	P/N	profile	p.	P/N	profile	p.
010001	edge trim	47	010040	trim seal	50	080-ALU	aluminium strip	54
010001/S	edge trim	47	011002	trim seal	49	128	bulb seal	54
010002	edge trim	47	011003	trim seal	49	13-08	door seal	55
010002/S	edge trim	47	011004	trim seal	49	135	bulb seal	54
010003	edge trim	47	011006	trim seal	52	142	bulb seal	54
010003/S	edge trim	47	011008	trim seal	48	162	glass support profile	57
010004	edge trim	47	011009	edge trim	47	163	glass support profile	57
010005	edge trim	47	011010	trim seal	51	164	glass support profile	57
010006	edge trim	47	011011	trim seal	51	165	glass support profile	57
010007/2	trim seal	49	011012	trim seal	51	166	glass support profile	57
010007/4	trim seal	49	011013	trim seal	51	1821	u-channel	56
010007/6	trim seal	49	011014	trim seal	48	26/26	support profile	53
010008	edge trim	47	011015	trim seal	50	3003	trim seal	50
010009	edge trim	47	011015/S1	trim seal	50	36/36	support profile	53
010010	edge trim	47	011015/S2	trim seal	50	4221	sound insulation profile	55
010012	edge trim	47	011016/2-3	trim seal	48	7160	trim seal	51
010012/S	edge trim	47	011017	trim seal	52	830R	flocked glass channel	53
010013	trim seal	52	011018	trim seal	48	8541	trim seal	50
010014	trim seal	52	011024	trim seal	48	8541-5	trim seal	50
010015	trim seal	52	012001	rubber profile	57	8555	trim seal	50
010016	trim seal	52	017	weatherstrip	57	8569	trim seal	53
010017	trim seal	49	01A001	trim seal	51	8632	trim seal	53
010018	trim seal	49	01A002	trim seal	50	B1117	glazing rubber strip	56
010019	trim seal	49	01A006	trim seal	51	B2144	glazing rubber strip	56
010021	trim seal	52	01A007	trim seal	51	D1119	weatherstrip	56
010021/S	trim seal	53	01A007/S	trim seal	51	D1127	door seal	55
010022	trim seal	49	01A020	trim seal	53	D1137	weatherstrip	56
010023	trim seal	48	020001	door seal	55	D2274	door seal	55
010024	trim seal	48	020002	door seal	55	P004	glass support profile	56
010025	trim seal	52	020003	door seal	55	P004-PVC	glass support profile	56
010026	trim seal	52	020004	door seal	55	S4219	u-channel	57
010028	trim seal	49	020015	bulb seal	54	S9038	weatherstrip	56
010030	trim seal	48	02A069	bulb seal	54	T695	u-channel	56
010031	trim seal	48	063	bulb seal	54	TE217	aluminium profile	57
010033	edge trim	47	071	sound insulation profile	55	W9361	bulb seal	53
010034	trim seal	50	080	bulb seal	54			
010035	trim seal	53	080111	aluminium profile	54			

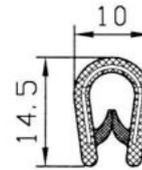
Edge trims



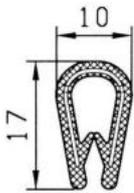
P/N	010001/010002/010003
CR	1,0 – 2,0
material	PVC
color	white / black / gray
PU	100 m



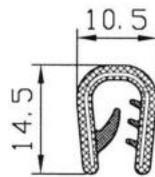
P/N	010001/S 010002/S -03/S
CR	1,0 – 2,0
material	PVC
color	white / black / gray
PU	100 m



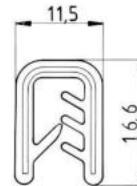
P/N	010004/010005/010006
CR	1,0 – 4,0
material	PVC
color	white / black / light-gray
PU	100 m / 50 m / 100 m



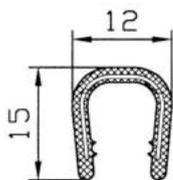
P/N	010008
CR	2,0 – 4,00
material	PVC
color	black
PU	50 m



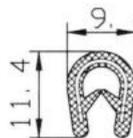
P/N	010009
CR	2,0 – 5,0
material	PVC
color	black
PU	100 m



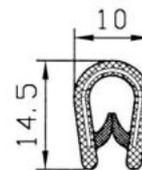
P/N	010010
CR	4,0 – 6,0
material	PVC
color	black
PU	100 m



P/N	010012 / 010012/S
CR	6,0 – 8,0 / 8,0 – 10,0
material	PVC
color	black
PU	100 m



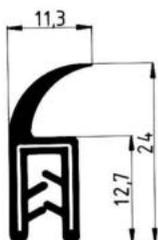
P/N	010033
CR	2,0 – 4,0
material	PVC
color	black
PU	100 m



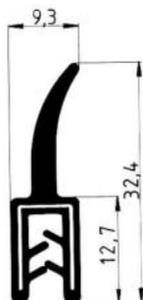
P/N	011009
CR	1,0 – 4,0
material	EPDM
color	black
PU	25 m

CR: clamp range - PU: purchase unit

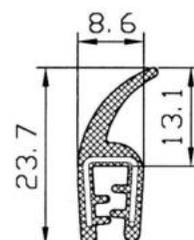
Trim seals



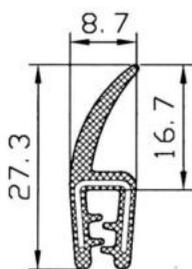
P/N	010023
CR	0,5 – 3,0
material	TPE
color	black
PU	50 m



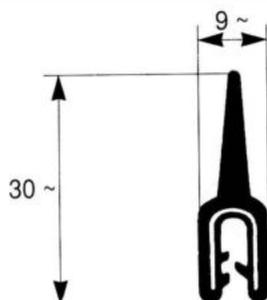
P/N	010024
CR	1,0 – 2,5
material	TPE
color	black
PU	50 m



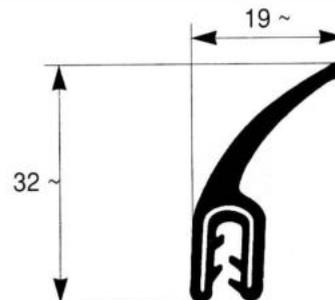
P/N	010030
CR	1,5 – 2,5
material	EPDM
color	black
PU	50 m



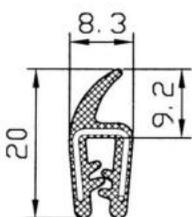
P/N	010031
KB	1,0 – 3,0
material	EPDM
color	black
PU	50 m



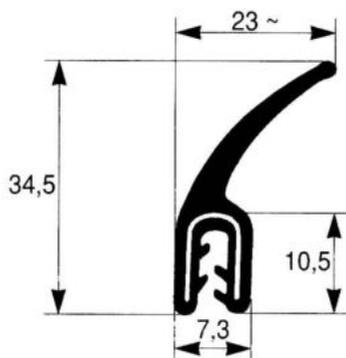
P/N	011008
KB	2,0 – 3,0
material	TPE
color	black
PU	25 m



P/N	011014
KB	2,0 – 4,0
material	TPE
color	black
PU	25m



P/N	011018
CR	1,0 – 2,0
material	EPDM
color	black
PU	50 m



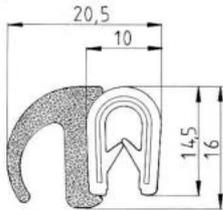
P/N	011024
CR	2,0 – 4,0
material	TPE
color	black
PU	25 m



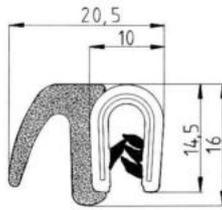
P/N	011016/2-3
CR	2,0 – 3,0
material	EPDM
color	black
PU	50m

CR: clamp range - PU: purchase unit

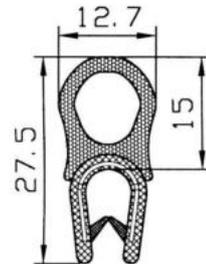
Trim seals, co-extruded seals



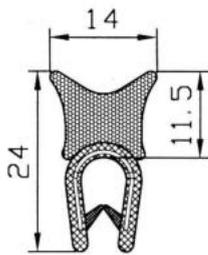
P/N	010017
CR	1,0 – 4,0
material	PVC/EPDM
color	black
PU	50 m



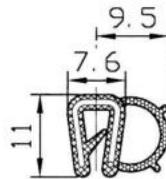
P/N	010018
CR	1,0 – 4,0
material	PVC/EPDM
color	black
PU	100 m



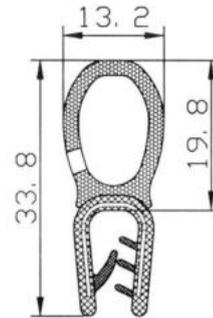
P/N	010019
CR	1,0 – 4,0
material	PVC/EPDM
color	black
PU	50m



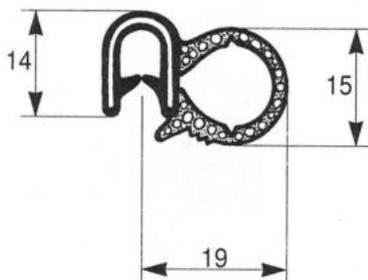
P/N	010022
CR	1,0 – 4,0
material	PVC/EPDM
color	black
PU	50 m



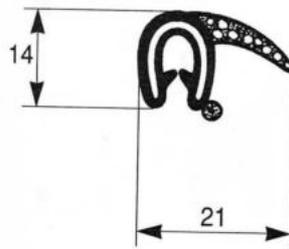
P/N	010028
CR	1,0 – 2,0
material	EPDM
color	black
PU	50 m



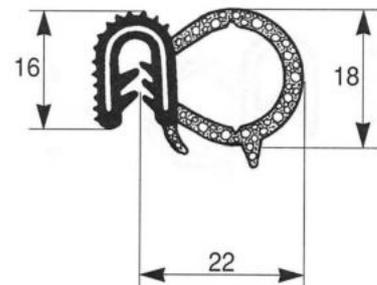
P/N	3 different clamp ranges 010007/2 - 010007/4 - 010007/6
CR	1,0-2,5 / 2,0-4,0 / 4,0-6,0
material	PVC/EPDM
color	black
PU	50 m / 50 m / 50 m



P/N	011002
CR	1,0 – 4,0
material	EPDM
color	black
PU	50 m



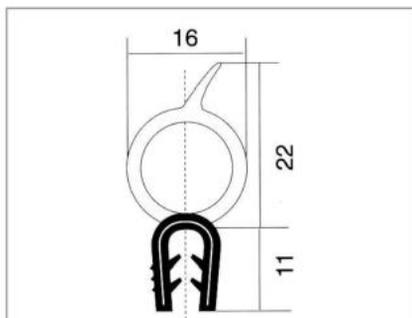
P/N	011003
CR	1,0 – 4,0
material	EPDM
color	black
PU	25 m



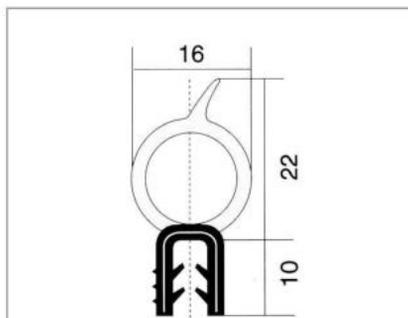
P/N	011004
CR	1,0 – 4,0
material	EPDM
color	black
PU	50 m

CR: clamp range - PU: purchase unit

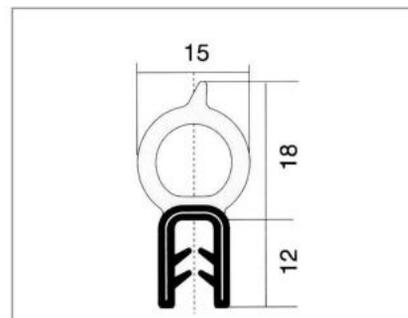
Trim seals, co-extruded seals



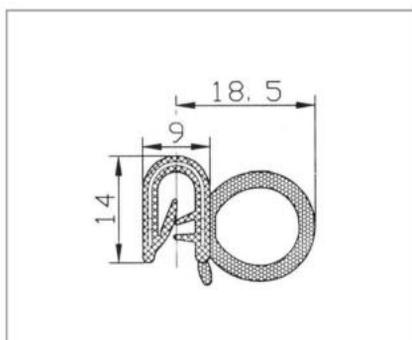
P/N	8541
CR	1,5 – 3,0
material	EPDM
color	black
PU	25 m



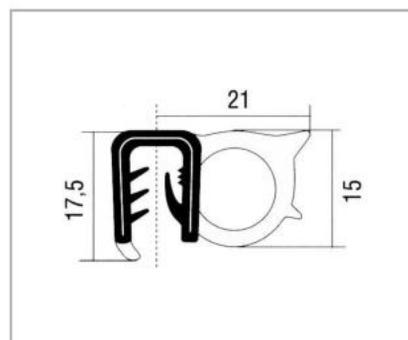
P/N	8541-5
CR	3,0 – 5,0
material	EPDM
color	black
PU	25 m



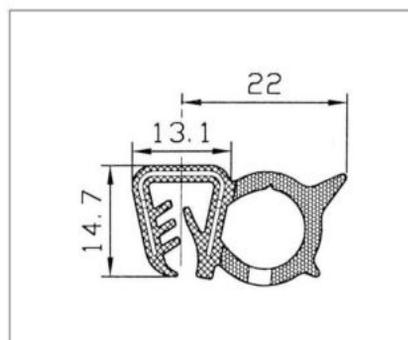
P/N	8555
CR	1,0 – 2,5
material	EPDM
color	black
PU	25 m



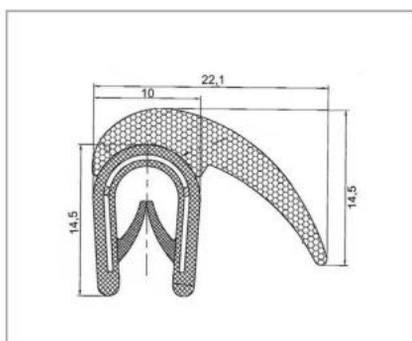
P/N	3003
CR	1,0-3,0
material	EPDM
color	black
PU	100 m



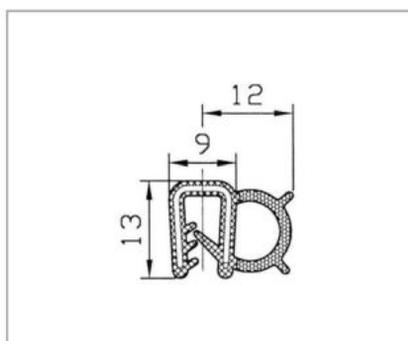
P/N	011015
CR	5,0 – 6,0
material	EPDM
color	black
PU	50 m



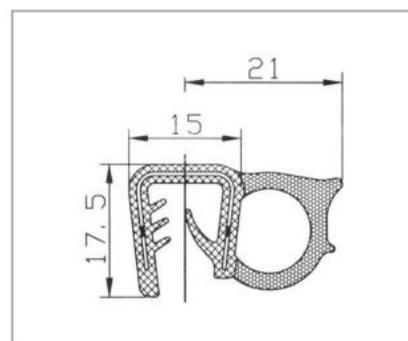
P/N	011015/S1 – 011015/S2
CR	1,0-2,5 / 2,0-4,0
material	EPDM
color	black
PU	75 m / 75 m



P/N	010034
CR	1,0 – 4,0
material	PVC/EPDM
color	black
PU	50m



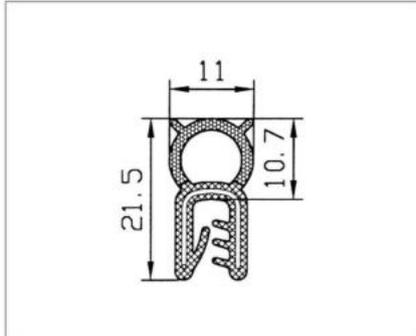
P/N	01A002
CR	2,0
material	EPDM
color	black
PU	50 m



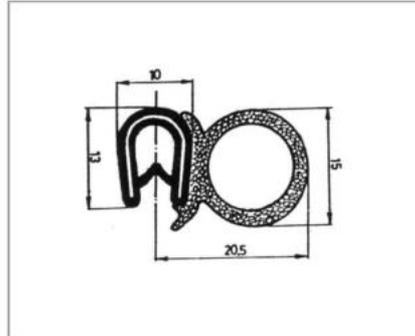
P/N	010040
CR	5,0 – 9,0
material	EPDM
color	black
PU	50 m

CR: clamp range - PU: purchase unit

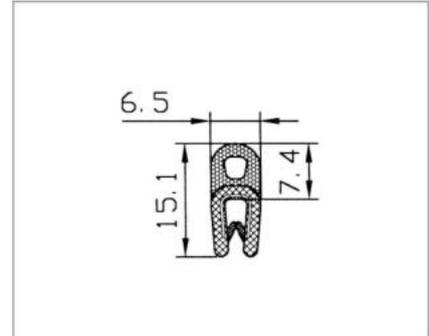
Trim seals, co-extruded profiles



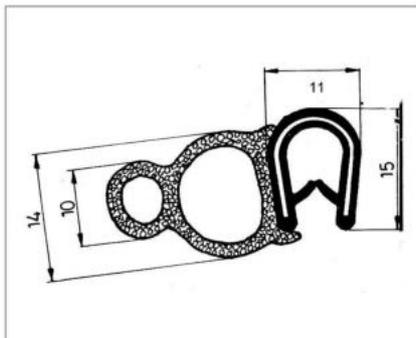
P/N	011010
CR	1,0 – 3,0
material	EPDM
color	black
PU	50 m



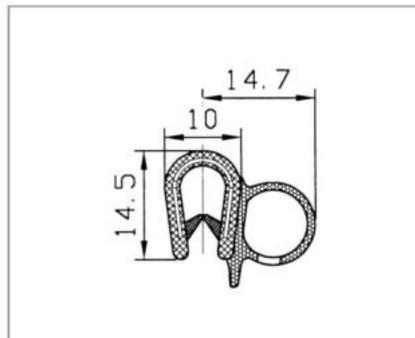
P/N	011011
CR	1,0 – 4,0
material	PVC/EPDM
color	black
PU	100 m



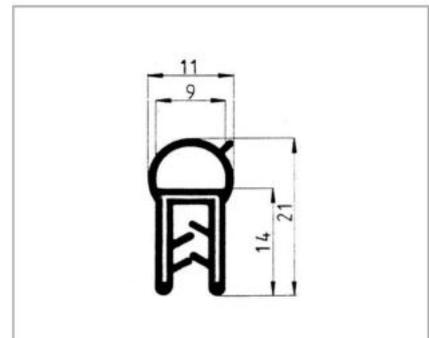
P/N	011013
CR	1,0 – 2,0
material	PVC/EPDM
color	black
PU	100 m



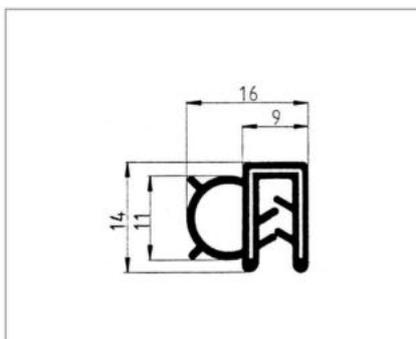
P/N	011012
CR	1,0 – 4,0
material	PVC/EPDM
color	black
PU	50 m



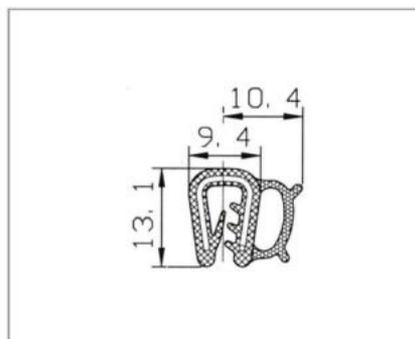
P/N	01A001
CR	1,0 – 4,0
material	PVC/EPDM
color	black
PU	50 m



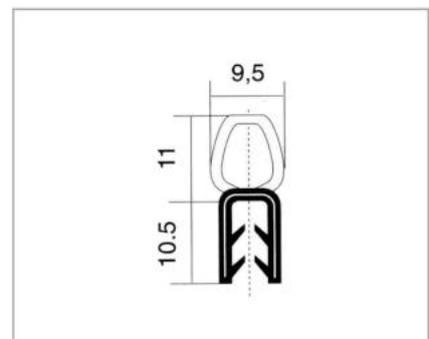
P/N	01A006
CR	1,0 – 2,5
material	TPE
color	black
PU	50 m



P/N	01A007
CR	1,0 – 2,5
material	TPE
color	black
PU	50 m



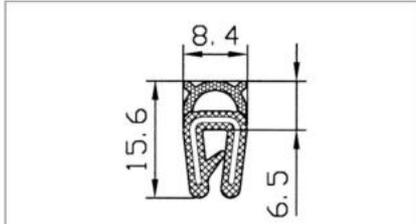
P/N	01A007/S
CR	2,0
material	EPDM
color	black
PU	50 m



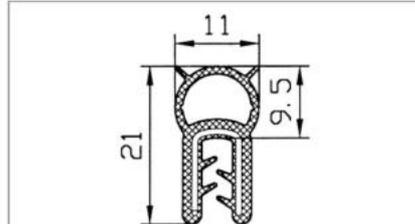
P/N	7160
CR	1,5 – 3,0
material	EPDM
color	black
PU	25 m

CR: clamp range - PU: purchase unit

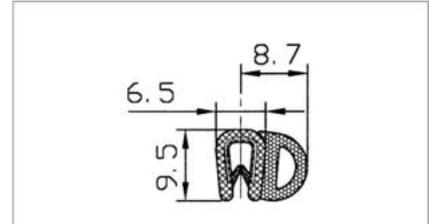
Trim seals, co-extruded seals



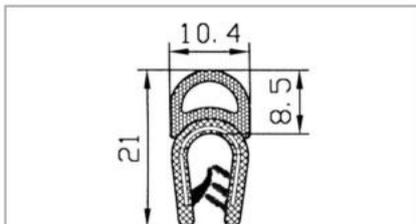
P/N	010025
CR	1,0 – 2,0
material	EPDM
color	black
PU	50 m



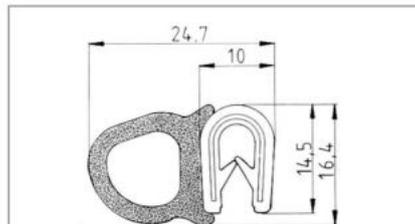
P/N	010026
CR	1,0 – 2,5
material	TPE
color	black
MOQ	500 m



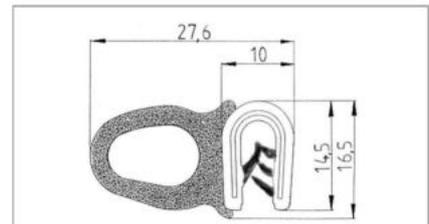
P/N	010013
CR	1,0 – 2,0
material	PVC/EPDM
color	black
PU	100 m



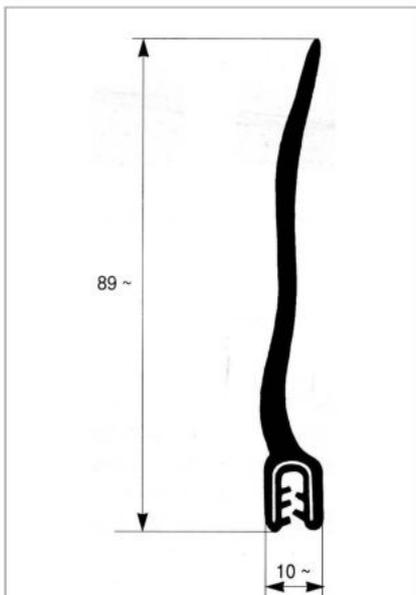
P/N	010014
CR	1,0 – 4,0
material	PVC/EPDM
color	black
PU	100 m



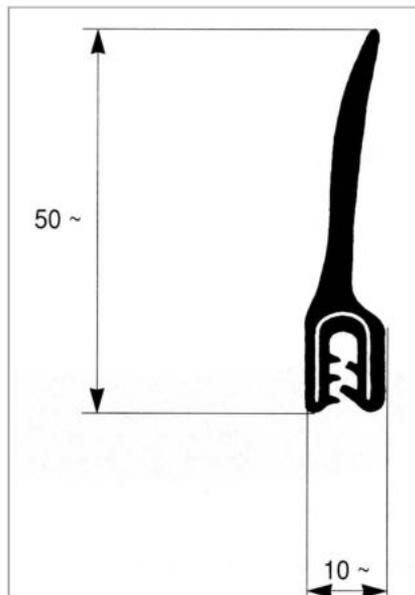
P/N	010015
CR	1,0 – 4,0
material	PVC/EPDM
color	black
PU	100 m



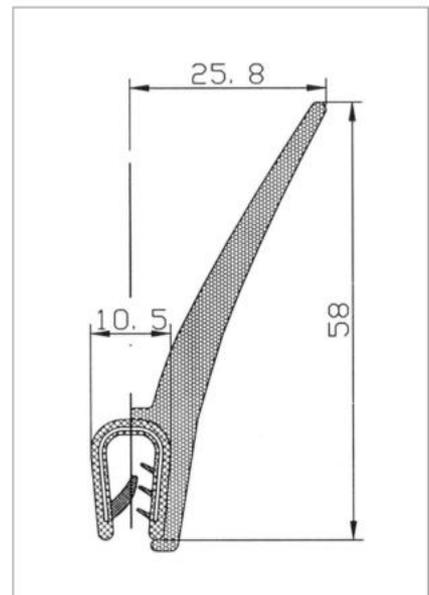
P/N	010016
CR	1,0 – 4,0
material	PVC/EPDM
color	black
PU	75 m



P/N	011006
CR	2,0 – 4,0
material	TPE
color	black
PU	25 m



P/N	011017
CR	2,0 – 4,0
material	TPE
color	black
PU	25 m



P/N	010021
CR	2,5 – 4,0
material	PVC/EPDM
color	black
PU	25 m

CR: clamp range - PU: purchase unit - MOQ: minimum order quantity

Miscellaneous profiles

P/N	010021/S
CR	1,0 – 3,5
material	EPDM
color	black
PU	50 m

P/N	W9361
material	EPDM
color	black
MOQ	300 m

P/N	26/26
material	EPDM
color	black
PU	40 m

P/N	36/36
material	EPDM
color	black
PU	40 m

P/N	01A020
CR	2,0-4,0
material	PVC/EPDM
color	black
MOQ	500 m

P/N	010035
CR	2,0-4,0
material	PVC/EPDM
color	black
MOQ	100

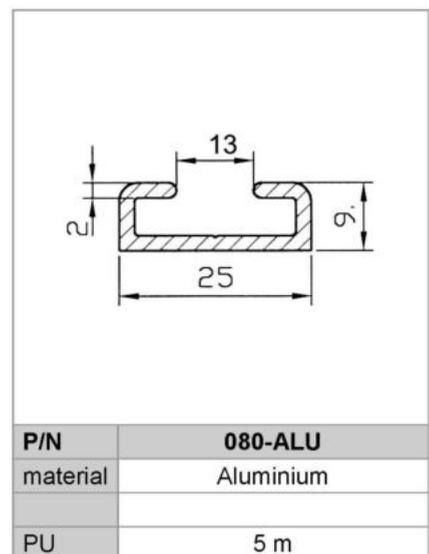
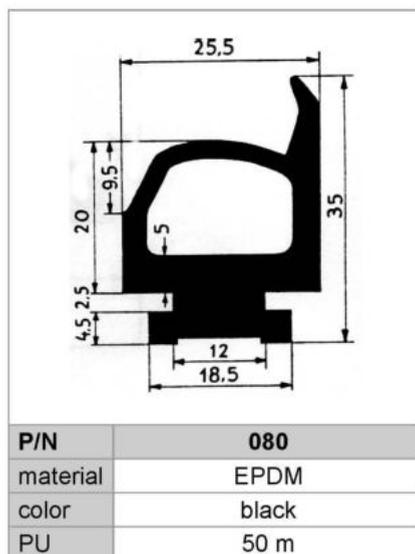
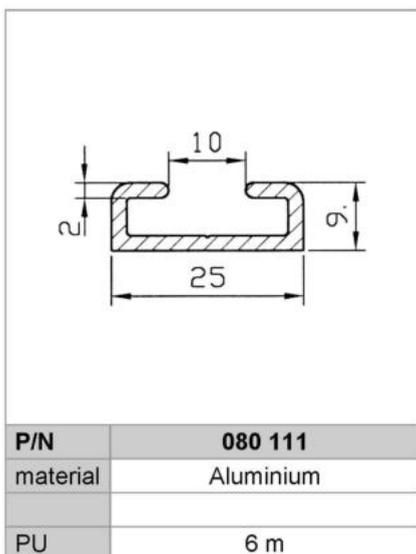
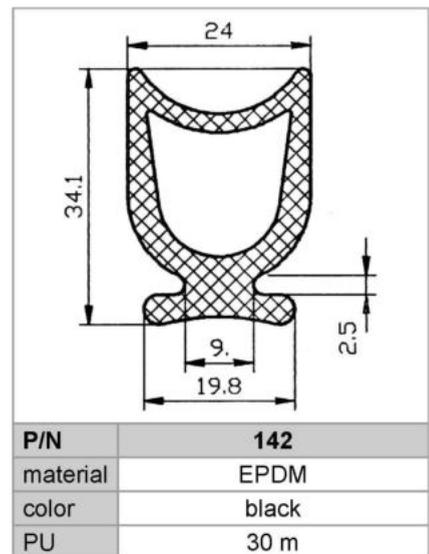
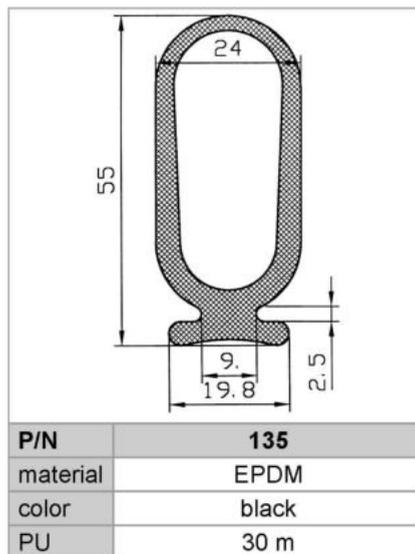
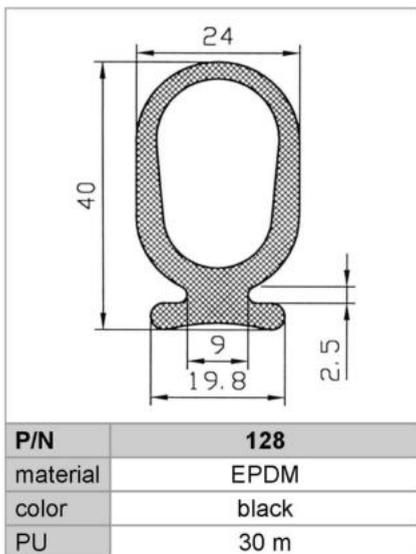
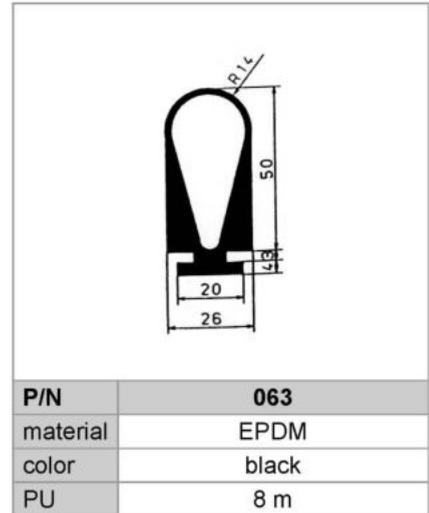
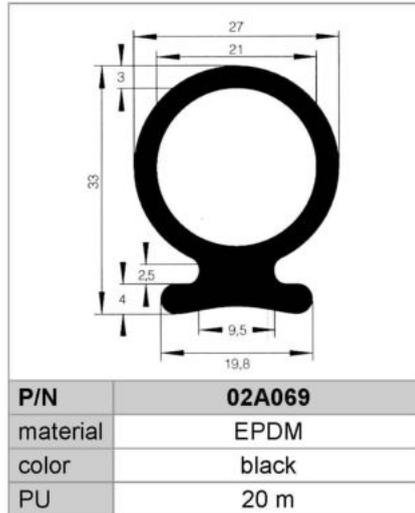
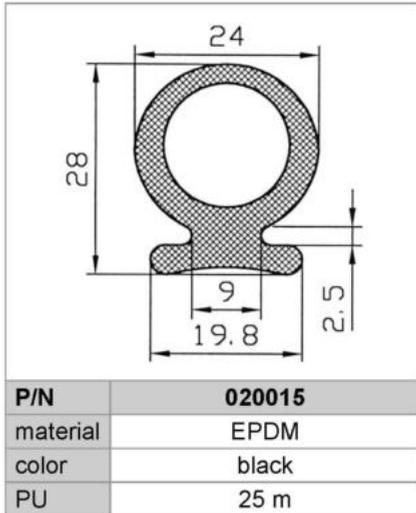
P/N	8569
CR	2,5-3,5
material	EPDM
color	black
MOQ	1.200 m

P/N	8632
CR	2,0-3,0
material	EPDM
color	black
MOQ	1.200 m

P/N	830R
	flocked glass run channel
material	EPDM
color	black
PU	20 m

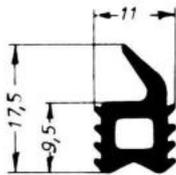
CR: clamp range - PU: purchase unit - MOQ: minimum order quantity

Bulb seals

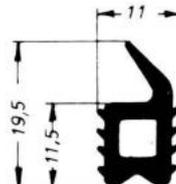


PU: purchase unit

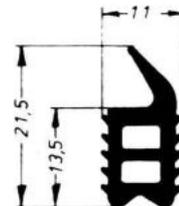
Door seals, miscellaneous



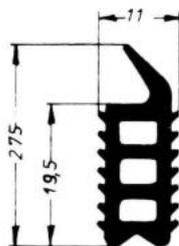
P/N	020001
material	PVC-soft
color	black
PU	20 m



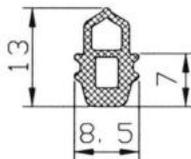
P/N	020002
material	PVC-soft
color	black
PU	20 m



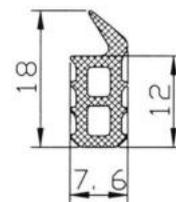
P/N	020003
material	PVC-soft
color	black
PU	20 m



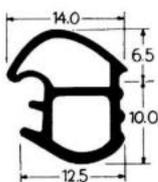
P/N	020004
material	PVC-soft
color	black
PU	20 m



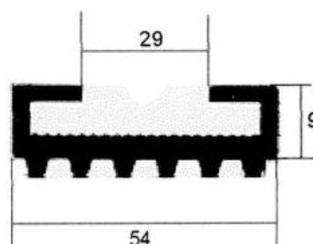
P/N	D2274
material	EPDM
color	black
PU	200 m



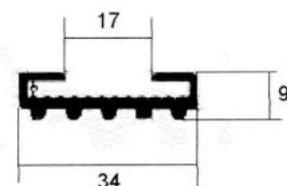
P/N	D1127
material	EPDM
color	black
PU	100 m



P/N	13-08
material	PVC
color	gray / black / white
PU	25 m



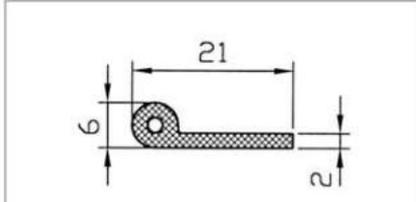
P/N	071
material	EPDM
color	black
PU	50 m
	for sheet plate 50 x 4 mm



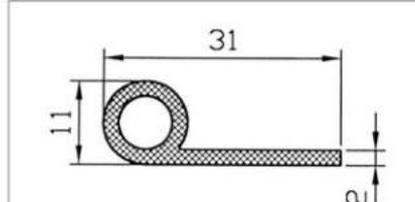
P/N	4221
material	EPDM
color	black
PU	50 m
	for sheet plate 30 x 2 mm

PU: purchase unit

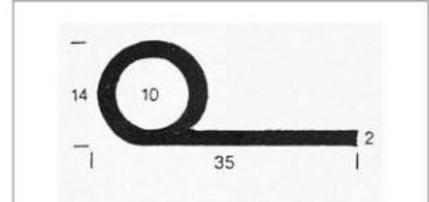
Miscellaneous profiles



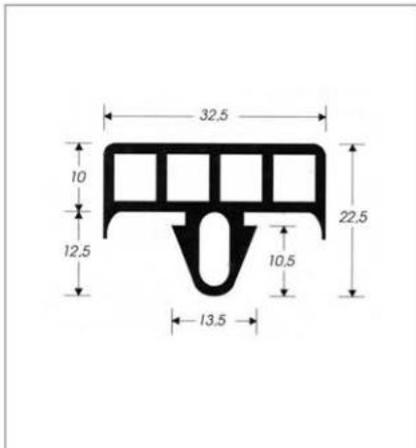
P/N	D1119
material	EPDM
color	black
PU	100 m



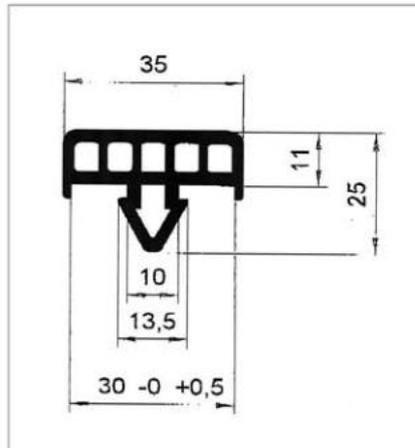
P/N	D1137
material	EPDM
color	black
PU	50 m



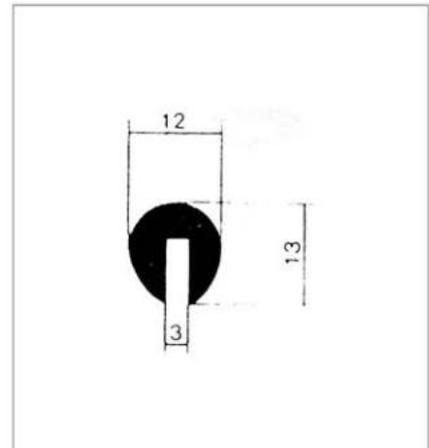
P/N	S9038
material	EPDM
color	black
PU	50 m



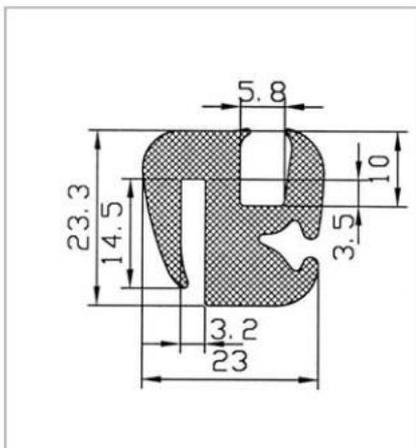
P/N	P004
material	EPDM
color	black
PU	37 m



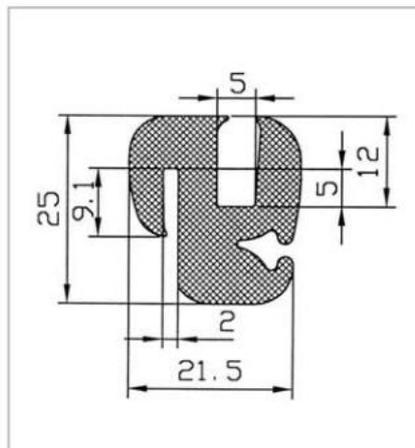
P/N	P004-PVC
material	PVC
color	black
PU	50 m



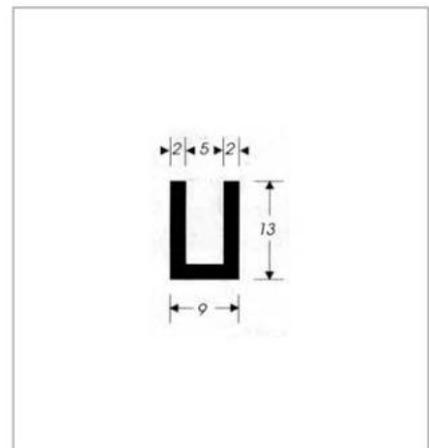
P/N	1821
material	EPDM
color	black
PU	100 m



P/N	B2144
material	EPDM
color	black
PU	25 m



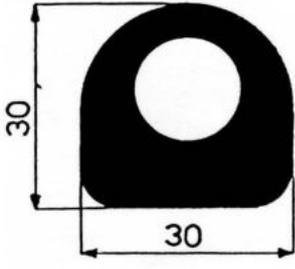
P/N	B1117
material	EPDM
color	black
PU	15 m



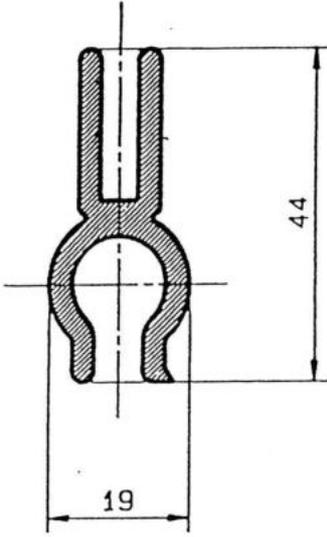
P/N	T695
material	EPDM
color	black
PU	100 m

PU: purchase unit

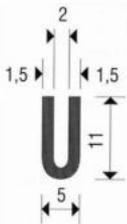
Miscellaneous profiles



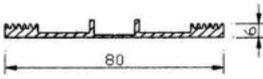
P/N	012001
material	NBR
color	black
PU	25 m



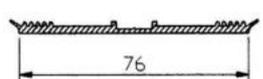
P/N	TE217
material	Aluminium
PU	1.740 mm



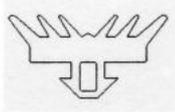
P/N	S4219
material	EPDM
color	black
PU	50 m



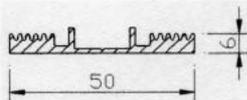
P/N	162
material	EPDM
color	black
PU	50 m



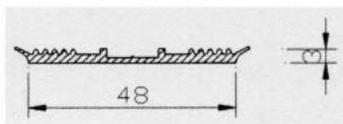
P/N	163
material	EPDM
color	black
PU	50 m



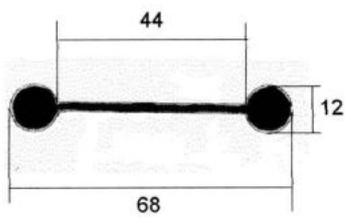
P/N	164
material	EPDM
color	black
PU	100 m



P/N	165
material	EPDM
color	black
PU	50 m



P/N	166
material	EPDM
color	black
PU	50 m

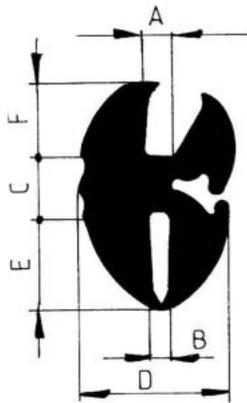


P/N	017
material	EPDM
color	black
PU	25 m

PU: purchase unit

Glazing rubber strips

material: EPDM 60 +/- 5 Shore A



You will find the appropriate closing/lock strips on page 59

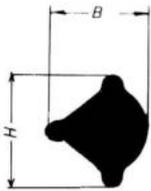
tool for threading in the closing/lock strips on request (see picture to the right)



P/N	A	B	C	D	E	F	BR	G	PU	closing strip #
030001	3	1	4	10,2	3	3	20	90	50	031001/4
030002	3	1	4	11,6	4,5	6	35	145	25	031002/5/6/7
030003	3	2	4	10,2	3	3	20	100	20	031001/4
030004	4	1,5	4	13,6	5	6	35	165	25	031002/5/6/7
030005	4	1,5	7	16	7	7	80	300	20	031003/8/9/10/11
030006	4	1,5	7,5	17,5	7,5	8	90	360	20	031003/8/9/10/11
030007	4	2	7,3	18	11	8,7	100	440	15	031003/8/9/10/11
030008	4	3	4	12,6	5	6	35	150	20	031002/5/6/7
030009	4	3	7	16	7	7	80	300	20	031003/8/9/10/11
030010	4	3	7,5	19	12,5	9,5	100	500	15	031003/8/9/10/11
030011	4,5	5	7	16	7	7	80	300	20	031003/8/9/10/11
030012	5	2	7,5	19	12,5	9,5	100	490	15	031003/8/9/10/11
030013	5	3	7,5	18	7,5	8	90	345	15	031003/8/9/10/11
030014	5	3	7,5	19	12,5	9,5	100	460	20	031003/8/9/10/11
030015	5	5	7	18,4	9	8	90	360	15	031003/8/9/10/11
030016	5,5	2	7,3	19	11	8,7	100	460	15	031003/8/9/10/11
030017	6	1,5	7,5	19	12,5	9,5	100	490	15	031003/8/9/10/11
030018	6	2,5	7	19	8	8	90	350	20	031003/8/9/10/11
030019	6	3	7,5	19	12,5	9,5	100	470	15	031003/8/9/10/11
030020	6	4	7,5	19	12,5	9,5	100	480	15	031003/8/9/10/11
030021	6	6	8,5	19	9,5	9	100	470	15	031003/8/9/10/11
030022	6	6	7,5	23	12	9,5	100	535	15	031003/8/9/10/11
030023	6	10	7,5	22,7	12,5	9,5	100	530	15	031003/8/9/10/11
030024	6,5	3,5	7,5	18	7,5	8	90	360	20	031003/8/9/10/11
030025	8	3	7,5	22	12,5	9,5	120	550	15	031003/8/9/10/11
030026	8	4	8,5	25	12,5	10	100	620	15	031003/8/9/10/11
030027	10	3	7,5	23	12,5	9,5	120	600	15	031003/8/9/10/11
030028	10	6	7,5	24	12,5	9,5	100	570	15	031003/8/9/10/11
030030	14	4	11	29	11	12	100	950	14,5	031003/8/9/10/11

BR = bend radius G = weight (g/m) PU=purchase unit (m)

Closing/Lock strips for glazing rubber strips



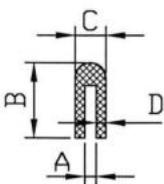
Closing/lock strips for the glazing rubber strips shown on page 58

tool for threading in the strips is available upon request
please also see page 58

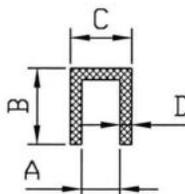
P/N	H	B	material	color	weight (g/m)	PU (m)
0310001	5,5	4,5	rubber	black	18	100
0310004	5,5	4,5	PVC	white	16	100
0310002	7,0	6,0	rubber	black	28	100
0310005	7,0	6,0	PVC	ivory-colored	25	100
0310006	7,0	6,0	PVC	silver	25	100
0310007	7,0	6,0	PVC	white	25	100
0310003-E	9,5	7,5	rubber	black	50	100
0310003	9,5	7,5	PVC	black	50	100
0310008	9,5	7,5	PVC	ivory-colored	40	100
0310009	9,5	7,5	PVC	silver	40	100
0310010	9,5	7,5	PVC	red	40	100
0310011	9,5	7,5	PVC	white	40	100

U-channels

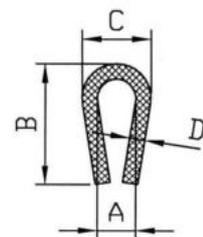
material: EPDM



Type 1 - (1)



Type 2 - (2)



Type 3 - (3)

P/N	A	B	C	D	P/N	A	B	C	D
D1010 (1)	1,5	10	4	1,25	D1014 (3)	3	13	6	1,5
D1028 (1)	4	15	7,5	1,75	D1024 (3)	4	11,5	6	1
D1020 (2)	2	8	5	1,5	D1034 (3)	5	16	9	2
D1011 (2)	3	10	6	1,5	D1025 (3)	6	18	11	2,5
D1021 (2)	4	8	7	1,5	D1015 (3)	6,5	20	10	1,75
D1012 (2)	5	10	8	1,5	D1026 (3)	8	21	14	3
D1022 (2)	5	15	8	1,5					

Roll length: 100 m - only D1015: 50 m

Cords - material: FPM/FKM 75 – fluoro rubber

FPM/FKM 75, black Outstanding resistance to heat and oil combinations Excellent ozone and weather resistance Broad chemical compatibility please also view pages 101, 103, 106-107 for detailed information about material properties roll lengths: up to Ø 9,5 mm: 50 m from Ø 10 mm: 25 m	Ø D	Ø D	Ø D	Ø D
	2,00	5,00	8,00	14,00
	2,40	5,33	8,50	15,00
	2,50	5,50	9,00	16,00
	2,62	5,70	9,50	17,00
	3,00	6,00	10,00	18,00
	3,53	6,50	11,00	20,00
	4,00	7,00	12,00	
	4,50	7,50	13,00	

Sponge rubber

All products shown on the following pages are closed cell rubber extrusions.
The surface of the extruded section has a natural skin formed during vulcanization.

Weight densities of sponge rubber range from 0,4 to 0,8 g/ccm depending on the material. Sponge rubber can be fabricated from NR, CR, NBR, EPDM, silicone

For more information about material properties – please view pages 101 – 103
On the following pages you will find our standard rubber cords, strips and profiles. Other sizes or shapes on request. Also sheets are available on request.

Cords – material: sponge rubber, EPDM

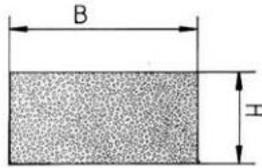


EPDM
gray or black

in other materials
upon request

diameter Ø D	roll length (m)	diameter Ø D	roll length (m)
2,00	200	13,00	50
2,50	200	14,00	50
3,00	200	15,00	50
3,50	200	16,00	50
4,00	200	18,00	25
4,50	200	20,00	25
5,00	200	22,00	25
6,00	200	25,00	25
7,00	200	30,00	20
8,00	200	35,00	20
9,00	200	40,00	20
10,00	100	45,00	10
11,00	100	50,00	10
12,00	100		

Sponge rubber strips - EPDM



standard material: EPDM gray or black

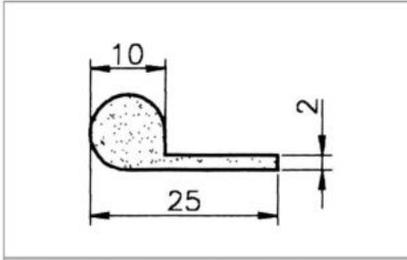
standard: non-adhesive
on request also available single- or double-side adhesive

other elastomers upon request

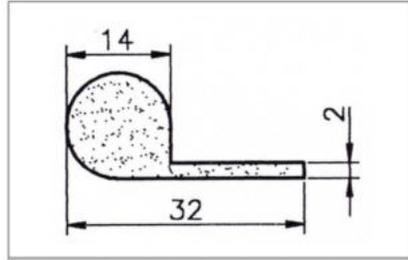
P/N = MO+HxB	roll length						
MO2x08	100	MO6x06	100	MO10x10	50	MO16x30	25
MO2x10	100	MO6x10	100	MO10x12	50		
MO2x15	100	MO6x12	100	MO10x15	50	MO18x18	25
MO2x20	100	MO6x15	100	MO10x16	50	MO18x25	25
MO2x25	50	MO6x20	50	MO10x18	50		
MO2x50	50	MO6x25	50	MO10x20	50	MO20x20	25
		MO6x30	50	MO10x25	50	MO20x25	25
MO3x05	100	MO6x35	25	MO10x30	25	MO20x30	25
MO3x10	100	MO6x40	25	MO10x35	25	MO20x40	25
MO3x15	100	MO6x50	25	MO10x40	25	MO20x45	25
MO3x18	100			MO10x50	25	MO20x50	25
MO3x20	100	MO7x10	100	MO10x60	25	MO20x60	10
MO3x30	50	MO7x15	50	MO10x70	25		
MO3x40	50	MO7x20	50			MO25x25	25
MO3x50	50			MO12x12	50	MO25x30	25
		MO8x08	100	MO12x15	50	MO25x35	25
MO4x06	100	MO8x10	100	MO12x20	50	MO25x40	25
MO4x08	100	MO8x12	50	MO12x25	50		
MO4x10	100	MO8x15	50	MO12x40	25	MO30x30	20
MO4x12	100	MO8x16	50			MO30x40	15
MO4x15	100	MO8x18	50	MO15x15	50	MO30x50	15
MO4x20	100	MO8x20	50	MO15x20	25		
MO4x25	50	MO8x25	50	MO15x25	25	MO40x40	10
MO4x30	50	MO8x30	50	MO15x30	25	MO40x50	10
MO4x40	50	MO8x35	50	MO15x35	25		
MO4x50	50	MO8x40	50	MO15x40	25	MO45x50	10
		MO8x50	50	MO15x45	25		
MO5x05	100			MO15x50	25	MO50x50	10
MO5x10	100	MO9x16	50				
MO5x12	100	MO9x23	50				
MO5x15	50						
MO5x20	50						
MO5x25	50						
MO5x30	50						
MO5x40	50						
MO5x50	25						
MO5x60	25						

Sponge rubber profiles

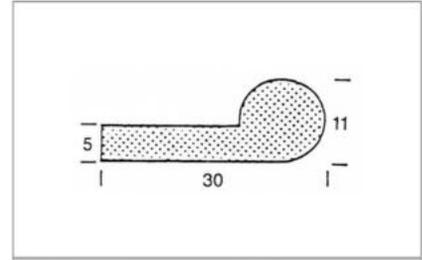
material: EPDM



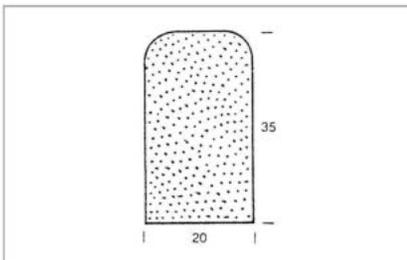
MO25004/S – black – PU 50 m



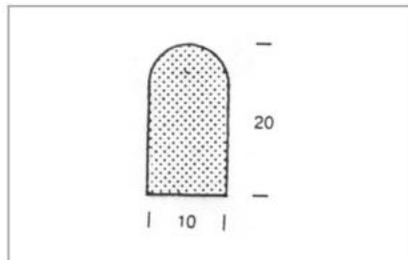
MO25208/S – black – PU 50 m



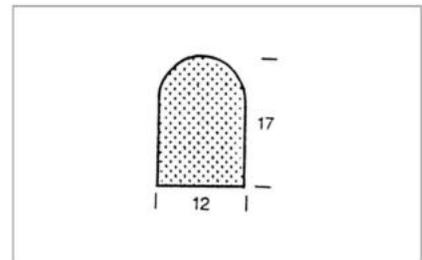
MO25274 – gray – PU 50 m



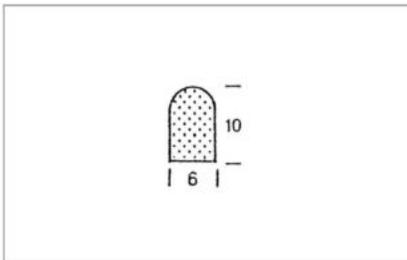
MO25115/S – black – PU 25 m



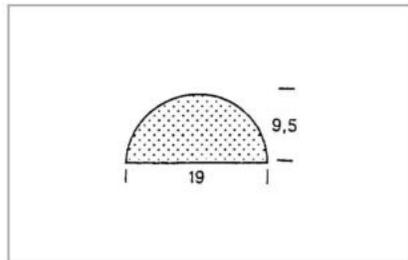
MO25088/G + /S - g. + b. – PU 50 m



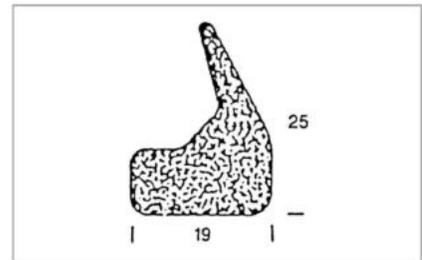
MO25007/G + /S - g. + b. – PU 50 m



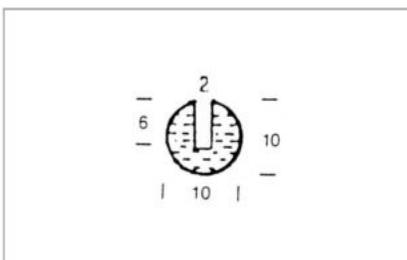
MO25261/G – gray – PU 100 m



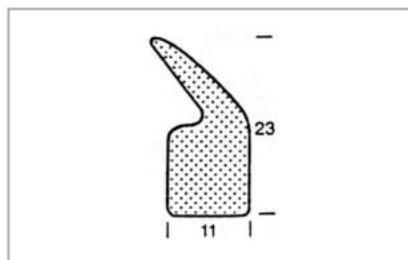
MO25319/G – gray – PU 50 m



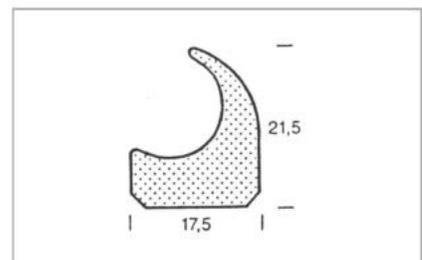
MO25024/G – gray – PU 25 m



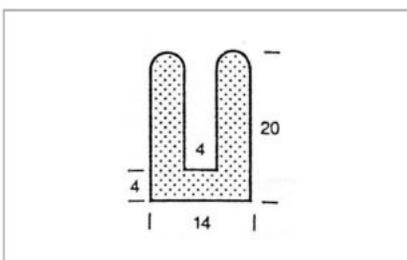
MO25002/S – black – PU 50 m



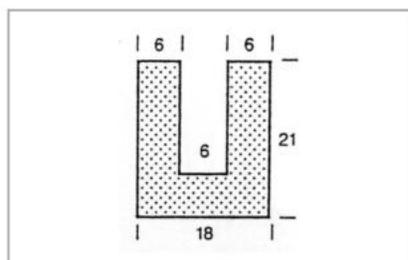
MO25232/G – gray – PU 50 m



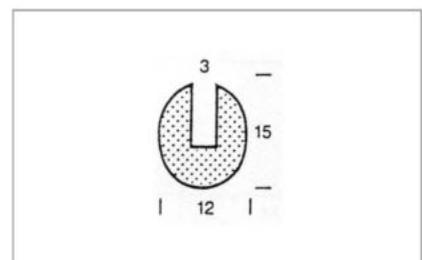
MO25240 – gray – PU 25 m



MO25230/G – gray – PU 25 m



MO25237/G + /S - g. + b. – PU 50 m



MO25239/S – black – PU 50 m

PU: purchase unit b: black g: gray

All profiles shown above are available ex-stock. Other shapes and sizes upon request.

Cellular Rubber

Cellular rubber with closed cell structure, available as sheets, cut-to-size or as strips.

Self-adhesive or non-adhesive.

Available in different materials, whereby our standard strips are provided in EPDM-quality as shown below.

Natural rubber-based (NR) cellular rubber features good physical properties, such as high tensile strength and high resilience.

Polychloroprene-based (CR) cellular rubber especially features high flame retardance. Well known trade names for CR-material are Neopren® and Baypren®.

EPDM-based cellular rubber features excellent weathering, ageing and ozone resistance combined with good impact resilience. It also shows good temperature resistance and works good also at low temperatures.

These characteristics make EPDM-based cellular rubber a favorable sealing material and commonly used sealing profile. EPDM-based cellular rubber usually shows no crystallization and no changes in color.

Density: approx. 190kg/m³.

Building Industry

Isolation and sealing of metal roofs, pipe sealing material, strips for borrowed light constructions

Air-Conditioning Technology

Sealing of air-conditioning systems, blowers and fans; use for vibration damping and vibration isolation and sound absorption

Automotive Industry

Die-cut parts, seals for panels and controls and instruments, anti-skid pads for rear trunks

Chemical Industry

Die-cut parts for various applications, isolating material in laboratories

Furniture Industry

Drawer inlays, stop bumpers, sound absorbing and shock absorbing keyboard pads, pads for wall units

Packaging

Impact damping cushions as pads or strips or as continuous material, sealings for container closures

Sports Goods and Leisure Equipment

Cushioning and impact-damping pads, camping mats, sporting mats, helmet inlays

Various Industrial Applications

Sealings for containers, tanks; anti-skid pads for household equipment, sealing strips for control cabinets

Cellular rubber strips – material: EPDM

P/N size (mm)	color	roll length (m)		P/N size (mm)	color	roll length (m)
ZK2x6	black	10		ZK4x6	black	10
ZK2x9	black	10		ZK4x9	black	10
ZK2x12	black	10		ZK4x12	black	10
ZK2x15	black	10		ZK4x15	black	10
ZK2x20	black	10		ZK4x20	black	10
ZK2x25	black	10		ZK4x25	black	10
ZK2x1000	black	10		ZK4x1000	black	10
ZK3x6	black	10		ZK5x6	black	10
ZK3x9	black	10		ZK5x9	black	10
ZK3x12	black	10		ZK5x12	black	10
ZK3x15	black	10		ZK5x15	black	10
ZK3x20	black	10		ZK5x20	black	10
ZK3x25	black	10		ZK5x25	black	10
ZK3x1000	black	10		ZK5x1000	black	10

Other sizes on request

Polyethylene foam

Applications

Building and Construction Industry

Sealing strips, groove sealings, pipe protections, tube insulation, freeze protection films, roof coverings, isolation material for metal roofs and walls, sound proofing floor floating isolation, floor underlays, f.e. used as parquet underlays, ceiling and wall linings.

In road construction polyethylene foam particularly is used as freeze protection covers, supplied in rolls of 1 m width or welded together to larger widths.

Industrial Applications in General

Sealing strips, both-sided adhesive tapes, die-cut seals, thermal isolation, cushioning and vibration damping, sound insulation, self-adhesive strips.

Automotive Industry

Head linings, shock mounts, sun shields, paddings, cushionings, mats for rear trunks, linings, carrier material for seat covers, carpet underlays, sealings (for example for headlights and rear lights).

Characteristics:

Closed-cell polyethylene foam – available as sheeting material, mats, pads, tapes or strips. Very smooth and regular cell structure, smooth surface, good physical properties, shows good shock absorbing effects, good subsonic noise insulation, highly resilient material, excellent thermal isolation properties, good resistance to ageing, minimal absorption of water, very low steam permeability, good resistance to chemicals, high volume and dimensional stability, odorless and non-toxic, non-corrosive, eco-friendly, easy waste disposal.

One-sided adhesive tapes

thickness:	2 mm	roll length:	20 meters
width	7 9 10 12 15 19 20 25 30 40 50 100		

thickness:	6 mm	roll length:	10 meters
width	7 9 10 12 15 19 20 25 30 40 50 100		

thickness:	3 mm	roll length:	20 meters
width	7 9 10 12 15 19 20 25 30 40 50 100		

thickness:	8 mm	roll length:	10 meters
width	7 9 10 12 15 19 20 25 30 40 50 100		

thickness:	4 mm	roll length:	20 meters
width	7 9 10 12 15 19 20 25 30 40 50 100		

thickness:	10 mm	roll length:	5 meters
width	7 9 10 12 15 19 20 25 30 40 50 100		

thickness:	5 mm	roll length:	10 meters
width	7 9 10 12 15 19 20 25 30 40 50 100		

thickness:	12 mm	roll length:	5 meters
width	7 9 10 12 15 19 20 25 30 40 50 100		

thickness – width: dimensions in mm

Available in all widths up to 1.000 mm on request

Diamond plate pattern



Art.-Nr. TE1

material:
NK/SBR
65 Shore
black

thickness: 3 mm

width: approx. 1.200 mm
roll length: 10 m

pyramid matting



Art.-Nr. TE4

material:
NK/SBR
65 Shore
black

thickness: 3 mm

width: approx. 1.200 mm
roll length: 10 m

Ripped surface



Art.-Nr. TE15

material:
NK/SBR
black

thickness: 3 mm

width: approx. 1.200 mm
roll length: 10 m

available ex-stock

Ripped surface



Art.-Nr. TE16

material:
NK/SBR
black

thickness: 3,5 mm

width: approx. 1.200 mm
roll length: 10 m

Diamond plate pattern



Art.-Nr. TE1215

material:
NK/SBR
black

thickness: 3 mm

width: approx. 1.400 mm
roll length: 10 m

available ex-stock

Studded pattern



**Art.-Nr. TE1307 - black
Art.-Nr. TE1273 - gray**

material:
NK/SBR

thickness: 4 mm

width: approx. 1.250 mm
roll length: 10 m

Ripped surface



Art.-Nr. TE1338

material:
NK/SBR
black

thickness: 6 mm

width: 1.200 mm
roll length: 10 Meter

**Rubber matting, plain black
Rubber sheets - cut to size**

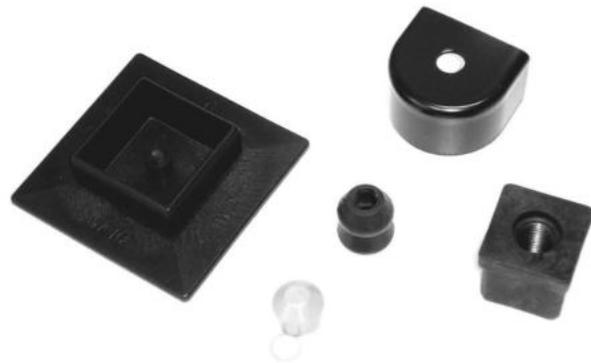


Available in all commonly used materials
please view pages 103 - 105

Semi-finished products - Plastic parts



Semi-finished products available as sheets, hollow rolls or rods



We also provide custom plastic parts acc. to your specifications

Material	DIN designation – Short form	Density – g/cm ³
Polyamide 6	PA 6	1,14
Polyamide 6.6 with MoS2	PA 6.6 Mo	1,14
Polyamide 6.6	PA 6.6	1,14
Polyamide 11/12	PA 11/12	1,03
Polyamide 12 GV	PA 12 GV	1,23
Cast polyamide 6	PA 6 G	1,14
Polyacetal	POM	1,42
Polyethylene terephthalate	PETP	1,37
Polycarbonate	PC	1,20
Polycarbonate with glass fibre	PC GV	1,43
Polyethylene	PE	0,94
Polypropylene	PP	0,91
Polyvinylchloride	PVC	1,38
Polyvinylide fluoride	PVDF	1,78
Polytetrafluoroethylene	PTFE	2,15
Polymethyl methacrylate	PMMA	1,20

Other materials on request

Hex caps

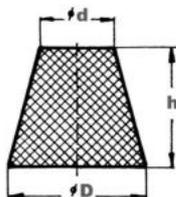


material: PE
stocked as standard in black

gray or white on request

P/N	wrench size	thread	P/N	wrench size	thread
SKS 4	7	M4	SKS 22	32	M22
SKS 5	8	M5	SKS 24	36	M24
SKS 6	10	M6	SKS 27	42	M27
SKS 8	13	M8	SKS 30	46	M30
SKS 10	17	M10	SKS 33	50	M33
SKS 12	19	M12	SKS 36	55	M36
SKS 14	22	M14	SKS 39	60	M39
SKS 16	24	M16	SKS 42	65	M42
SKS 18	27	M18	SKS 45	70	M45
SKS 20	30	M20			

Plugs for test-tubes



Natural Rubber NR, gray
durometer 40-50° Shore A

working temperature range: -30 to + 80 °C

also available in silicone – for heat resistance up to 200° C

P/N	Ø d	Ø D	h	P/N	Ø d	Ø D	h
LS02-05	2	5	20	LS34-41	34	41	35
LS03-07	3	7	20	LS35-44	35	44	40
LS3,5-6,5	3,5	6,5	15	LS38-45	38	45	35
LS04-08	4	8	20	LS42-49	42	49	35
LS05-09	5	9	20	LS46-54	46	54	40
LS06-10	6	10	20	LS50-60	50	60	45
LS08-12	8	12	20	LS50-60/S	50	60	50
LS09-13	9	13	20	LS55-65	55	65	50
LS11-15	11	15	20	LS63-73	63	73	50
LS12-17	12	17	25	LS65-76	65	76	55
LS12,5-16,5	12,5	16,5	20	LS70-90	70	90	50
LS14-18	14	18	20	LS78-92	78	92	50
LS16-21	16	21	25	LS85-95	85	95	50
LS17-23	17	23	30	LS90-150	90	150	50
LS19-24	19	24	25	LS94-107	94	107	65
LS22-27	22	27	25	LS95-105	95	105	50
LS25-31	25	31	30	LS100-130	100	130	85
LS28-34	28	34	30	LS105-125	105	125	50
LS31-38	31	38	35				

End caps for round tubes – style 275



with grooves for better adhesion

stocked as standard
in polyethylene gray

A-Ø: outer diameter of tube in mm
PU: purchase unit

A-Ø	height	PU	A-Ø	height	PU	A-Ø	height	PU	A-Ø	height	PU
8	13	1.000	28	20	1.000	63,5	30	300	114,3	40	100
10	13	1.000	30	30	1.000	66,5	30	300	125	40	100
12	13	1.000	32	30	1.000	70	30	300	127	40	75
13	13	1.000	33,7	30	1.000	73	30	300	133	40	70
13,7	13	1.000	35	30	1.000	75	30	250	139,7	40	70
14	13	1.000	38	30	900	76	30	250	141,3	40	70
15	13	1.000	40	30	800	77	30	250	151	40	65
16	13	1.000	41,5	30	800	82	30	200	152,4	40	65
17,2	13	1.000	42,4	30	700	83	30	200	159	40	60
18	13	1.000	44,5	30	700	85	40	150	160	40	60
19	13	1.000	48,3	30	600	89	40	150	168,3	40	50
20	20	1.000	50	30	500	90	40	150	177,8	40	40
21,3	20	1.000	51	30	500	95	40	125	185	40	35
22	20	1.000	52	30	500	102	40	100	193,7	40	35
24	20	1.000	54	30	400	104	40	100	200	40	35
25	20	1.000	57	30	400	108	40	100	210	40	30
26	20	1.000	59	30	400	110	40	100	219,1	50	25
26,9	20	1.000	60,3	30	400	111	40	100	273	50	18

Flexible end caps for round tubes – style K



stocked as standard in PVC black
part number P/N = outside-diameter of tube (in mm)

**Square/rectang.
Style VK**



in-stock item
in PE black-
other colors
on request

P/N	height	P/N	height	P/N	height	P/N	height
K6	13,0	K22-23	28,4	K43-44	32,0	VK20x20	24,5
K8	15,3	K24	31,0	K45-46	33,5	VK25x25	27,8
K10-11	16,8	K25-26	31,0	K47-48	32,0	VK30x30	28,5
K12-13	18,8	K27	31,5	K48-49	33,0	VK40x40	28,0
K13	19,5	K28-29	30,0	K49-51	33,0	VK45x45	52,9
K14	21,5	K30-31	31,0	K54-55	38,5	VK50x50	28,5
K15	21,4	K32-33	31,0	K59-60	37,5	VK30x15	24,4
K16-17	26,0	K34-35	31,5	K63-64	37,5	VK40x20	28,0
K18	26,0	K35-36	31,0	K69-70	37,0	VK40x25	53,4
K19	26,0	K38-39	33,0	K75-76	38,5	VK40x30	53,6
K20	26,5	K40-41	32,5	K90-91	42,0		
K21	26,5	K42-43	32,5	K103-104	40,0		

P/N=VK+tube dimensions

plugs – style 95



plugs – style 94



plugs – style 84



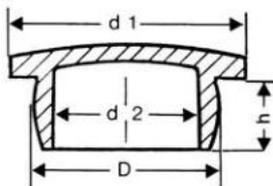
plugs style 95,94, 84 in PE, black available ex-stock - in gray, green or white on request

P/N	outer Ø of head	inner Ø of tube
9509	26,9	21,6
9510	33,7	27,2
9511	42,4	35,9
9512	48,3	41,8
9513	60,3	53,0
9514	76,1	68,8
9515	89,0	80,5

P/N	outer Ø of head	inner Ø of tube
9410	21,8	15,4
9411	28,0	21,8
9412	34,5	27,0
9413	41,8	36,5
9414	48,0	41,8
9415	60,0	54,6

P/N	outer Ø of head	inner Ø of tube
8409	26,9	21,6
8410	33,7	27,2
8411	42,4	35,9
8412	48,3	41,8
8413	60,3	53,0

Hole plugs – style H



material: PE – clear
available ex-stock

P/N	D	h	d1	d2	P/N	D	h	d1	d2	P/N	D	h	d1	d2
02	7,2	5,5	11,2	5,2	7A	18,9	9,0	24,6	16,8	17	31,7	12,0	34,8	28,6
01	8,4	5,5	11,2	6,4	7B/3,8	19,2	3,8	24,6	17,5	18	32,6	12,0	34,8	29,7
1	9,2	5,5	14,4	7,0	8	19,5	9,0	24,6	17,5	19	34,6	12,0	40,4	31,6
1A	10,1	5,5	14,4	8,2	8A	20,1	9,0	24,6	18,1	20	35,5	12,0	40,4	32,3
2	10,6	5,5	14,4	8,8	9	20,7	9,0	24,6	18,4	21	36,7	8,0	40,4	33,6
2A	11,3	5,5	14,4	9,5	9A	21,2	9,0	24,6	19,0	23	39,0	16,0	49,3	35,3
2B	11,8	5,5	14,4	10,0	9A/6	21,2	7,0	24,6	19,0	25	40,7	16,0	49,3	37,0
3	12,3	7,0	18,7	10,4	10	21,7	9,0	24,6	19,4	27	42,5	18,0	49,3	38,8
3A	13,0	7,0	18,7	11,1	11	22,4	9,0	24,6	20,2	32	46,2	18,0	58,7	41,9
3A1	13,3	7,0	18,7	11,4	11A	23,0	9,0	28,5	20,8	35	51,5	18,0	58,7	47,5
3B	13,6	7,0	18,7	11,7	111	23,6	9,0	28,5	21,5	362	54,1	18,0	58,7	49,2
3B1	14,0	7,0	18,7	12,1	112	24,0	9,0	28,5	21,9	39	58,2	18,0	64,8	53,3
3C	14,4	7,0	18,7	12,3	12	24,6	9,0	28,5	22,5	40	59,6	17,4	73,5	54,5
4	15,0	7,0	18,7	12,9	13	25,5	9,0	28,5	23,4	49	73,7	17,4	82,3	68,7
5	15,8	7,0	18,7	13,8	14	26,5	12,0	28,5	24,6	54	80,8	17,4	92,5	75,8
6	16,5	7,0	18,7	14,5	141	27,0	12,0	34,8	24,8	57	86,5	17,4	99,3	81,3
6A	17,1	9,0	24,6	15,2	142	27,5	12,0	34,8	25,3	64	98,8	17,4	112	93,5
6B	17,8	9,0	24,6	15,9	151	28,8	12,0	34,8	26,6	70	111,7	17,4	123	106,4
7	18,5	9,0	24,6	16,5	16	30,5	12,0	34,8	27,3					

Round – style GL



material: in PE black available ex-stock

in gray or white upon request

WS: tube thickness - AD: outer Ø of tube

P/N	WS	AD									
10	1,0-2,0	10	25/3	3,0	25	40	1,0-2,0	40	60	1,5-2,5	60
12	1,0-2,0	12	27	1,0-2,0	27	40/3	2,5-4,0	40	60/3	3,0-4,0	60
13	1,0-2,0	13	28	1,0-2,0	28	42	1,0-2,0	42	65/3	1,5-3,5	65
14	1,0-2,0	14	30	1,0-2,0	30	42/3	3,0-4,0	42	70	2,0-4,5	70
15	1,0-2,0	15	30/3	2,5-4,0	30	45	1,0-2,0	45	76	1,5-2,5	76
16	1,0-2,0	16	32	1,0-2,0	32	46	1,0-2,0	46	76/3	3,0-4,0	76
18	1,0-2,0	18	34	1,0-2,0	34	48	1,0-2,0	48	80	1,5-2,0	80
20	1,0-2,0	20	34/3	2,5-4,0	34	48/3	3,0	48	90	2,5-5,0	90
22	1,0-2,0	22	35	1,0-2,0	35	50	1,0-2,0	50	102	2,0-4,0	102
22/3	3,0	22	36	1,0-2,0	36	50/3	2,5-4,0	50	108	2,9-5,0	108
25	1,0-2,0	25	38	1,0-2,0	38	55	1,0-2,0	55	120	2,0-4,0	120

Round – style SFL



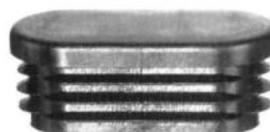
material: in PE black available ex-stock

in gray or white upon request

P/N	WS	AD	P/N	WS	AD
10	1,0-2,0	10	24	1,5-2,0	24
12	1,0-2,0	12	25	1,5-2,5	25
13	1,0-2,0	13	26	1,5-2,5	26
14	1,0-2,0	14	28	1,5-2,5	28
15	1,0-2,0	15	30	1,5-2,5	30
16	1,0-2,0	16	32	1,5-2,5	32
18	1,5-2,5	18	34	1,5-2,5	34
19	1,5-2,5	19	35	1,5-2,5	35
20	1,5-2,5	20	38	1,5-2,5	38
21	1,5-2,5	21	40	1,5-3,0	40
22	1,0-2,0	22	45	1,5-2,5	45

WS: tube thickness - AD: outer Ø of tube

Oval – style FO



material: in PE black available ex-stock

in gray or white upon request

P/N	outer Ø of tube	tube thickness
FO 20102	20x10	2,0
FO 25122	25x12	2,0
FO 30152	30x15	1,5-2,0
FO 30155	30x15	2,5
FO 35155	35x15	1,5-2,5
FO 35202	35x20	1,5-2,0
FO 38202	38x20	1,0-3,0
FO 40202	40x20	2,0
FO 40205	40x20	2,5
FO 48202	48x20	1,5-2,0
FO 50202	50x20	1,0-3,0
FO 60302	60x30	2,0

Square – style LQ

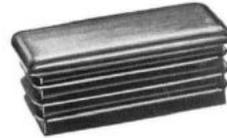


material: PE
in black available
ex-stock
in gray or white upon
request

P/N=tube dimensions

P/N	tube thickness	P/N	tube thickness
10x10	1,0-2,0	90x90	1,0-2,0
12x12	1,0-2,0	90x90	3,0
13x13	1,0-2,0	90x90	5,0
15x15	1,0-2,0	100x100	1,0-4,0
16x16	1,0-2,0	100x100	5,0-8,0
18x18	1,0-2,0	110x110	3,0-5,0
20x20	1,0-2,0	120x120	2,5-5,0
22x22	1,0-2,0		
25x25	1,0-2,0		
25x25	3,0		
27x27	1,0-2,0		
28x28	1,0-2,0		
30x30	1,0-2,0		
30x30	2,5-4,5		
32x32	2,0-2,5		
34x34	1,0-2,0		
35x35	1,0-2,0		
35x35	3,0		
40x40	1,0-2,0		
40x40	1,0-4,0		
40x40	3,0		
40x40	4,0		
40x40	5,0		
45x45	1,0-2,0		
50x50	1,0-4,0		
50x50	2,6-5,0		
50x50	5,0		
60x60	1,5-2,0		
60x60	2,9-4,0		
60x60	4,0		
60x60	5,0		
70x70	1,0-2,0		
70x70	2,0-4,0		
70x70	5,0		
80x80	3,0-4,0		
80x80	5,0		
90x90	3,6-5,0		

Rectangular – style LR

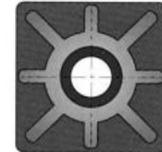
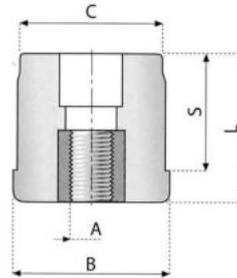


material: PE
in black available
ex-stock
in gray or white upon
request

P/N=tube dimensions

P/N	tube thickness	P/N	tube thickness
20x10	1,0-2,0	60x30	1,0-2,0
20x15	1,0-2,0	60x30	3,0
25x10	1,0-2,0	60x40	1,0-3,0
25x12	1,0-2,0	60x40	4,0-5,0
25x15	1,0-2,0	70x20	1,0-2,0
25x20	1,0-2,0	70x25	1,0-2,0
30x10	1,0-2,0	70x30	1,0-2,0
30x15	1,0-2,0	70x40	1,0-2,0
30x20	1,0-2,0	70x40	4,0
30x20	3,0	70x50	2,0-5,0
30x25	1,0-2,0	80x20	1,0-2,0
35x10	1,0-2,0	80x30	1,0-2,0
35x15	1,0-2,0	80x30	2,5-4,0
35x20	1,0-2,0	80x40	1,0-3,0
35x25	1,0-2,0	80x40	4,0
35x30	1,0-2,0	80x50	2,0-4,0
40x10	1,0-2,0	80x60	2,5-3,0
40x15	1,0-2,0	80x60	5,0
40x20	1,0-2,0	90x50	2,0-4,5
40x20	3,0	100x20	1,0-2,0
40x25	1,0-2,0	100x25	1,0-3,0
40x30	1,0-2,0	100x40	1,0-2,0
40x30	3,0	100x40	3,0
45x15	1,0-2,0	100x50	3,0-5,0
45x20	1,0-2,0	100x60	2,0-4,0
45x25	1,0-2,0	100x80	3,5-5,0
45x35	1,0-3,5	120x30	1,0-2,0
50x20	1,0-2,0	120x40	1,0-2,0
50x25	1,0-2,0	120x40	3,0
50x30	1,0-2,0	120x50	3,0-5,5
50x30	3,0	120x60	2,0-4,0
50x34	1,0-2,0	120x80	2,0-3,0
50x40	1,0-2,0	120x80	5,0
50x40	3,0-4,0	120x100	3,5-6,0
55x34	1,0-2,0	140x80	4,0
60x20	1,0-2,0	150x100	3,0-8,0
60x25	1,0-2,0	160x40	1,5-2,0

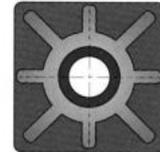
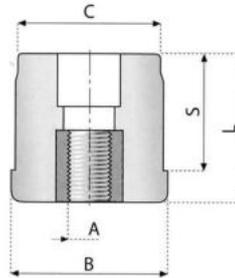
Threaded tube ends for square tubes



material: polyamide, threaded bush in nickel plated brass

P/N	A	B	C	L	S	tube outer Ø	tube inner Ø	tube thickness
14824	M8	25	22,5	30	25	25	22	1,5
14822	M10	25	22,5	30	25	25	22	1,5
14823	M12	25	22,5	30	25	25	22	1,5
14779	M10	30	27,5	33	27	30	27	1,5
14780	M12	30	27,5	33	27	30	27	1,5
14781	M14	30	27,5	33	27	30	27	1,5
14782	M16	30	27,5	33	27	30	27	1,5
14810	M10	30	26,5	33	27	30	26	2,0
14811	M12	30	26,5	33	27	30	26	2,0
14812	M14	30	26,5	33	27	30	26	2,0
14813	M16	30	26,5	33	27	30	26	2,0
14805	M10	35	32,5	43	35	35	32	1,5
14806	M12	35	32,5	43	35	35	32	1,5
14807	M14	35	32,5	43	35	35	32	1,5
14808	M16	35	32,5	43	35	35	32	1,5
14809	M20	35	32,5	43	35	35	32	1,5
14825	M10	35	31,5	43	35	35	31	2,0
14826	M12	35	31,5	43	35	35	31	2,0
14827	M14	35	31,5	43	35	35	31	2,0
14828	M16	35	31,5	43	35	35	31	2,0
14829	M20	35	31,5	43	35	35	31	2,0
14783	M10	38	35,4	43	35	38,1	34,9	1,6
14756	M12	38	35,4	43	35	38,1	34,9	1,6
14784	M14	38	35,4	43	35	38,1	34,9	1,6
14757	M16	38	35,4	43	35	38,1	34,9	1,6
14785	M20	38	35,4	43	35	38,1	34,9	1,6
14786	M10	38	32,6	43	35	38,1	32,1	3,0
14758	M12	38	32,6	43	35	38,1	32,1	3,0
14759	M14	38	32,6	43	35	38,1	32,1	3,0
14787	M16	38	32,6	43	35	38,1	32,1	3,0
14788	M20	38	32,6	43	35	38,1	32,1	3,0

Threaded tube ends for square tubes



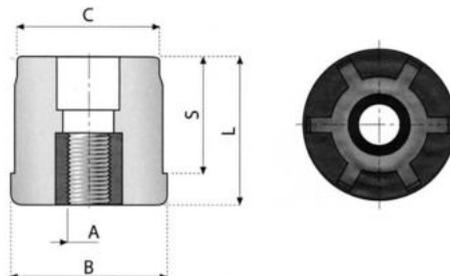
material: polyamide, threaded bush in nickel plated brass

P/N	A	B	C	L	S	tube outer Ø	tube inner Ø	tube thickness
14790	M10	40	37,5	43	35	40	37	1,5
14769	M12	40	37,5	43	35	40	37	1,5
14770	M14	40	37,5	43	35	40	37	1,5
14771	M16	40	37,5	43	35	40	37	1,5
14772	M20	40	37,5	43	35	40	37	1,5
14600	M10	40	36,58	43	35	40	36	2,0
14601	M12	40	36,5	43	35	40	36	2,0
14602	M14	40	36,5	43	35	40	36	2,0
14603	M16	40	36,5	43	35	40	36	2,0
14604	M20	40	36,5	43	35	40	36	2,0
14605	M12	50	47,5	55	44	50	47	1,5
14606	M14	50	47,5	55	44	50	47	1,5
14607	M16	50	47,5	55	44	50	47	1,5
14608	M20	50	47,5	55	44	50	47	1,5
14609	M12	50	46,5	55	44	50	46	2,0
14610	M14	50	46,5	55	44	50	46	2,0
14611	M16	50	46,5	55	44	50	46	2,0
14612	M20	50	46,5	55	44	50	46	2,0
14795	M12	50	45,5	55	44	50	45	2,5
14796	M14	50	45,5	55	44	50	45	2,5
14797	M16	50	45,5	55	44	50	45	2,5
14798	M20	50	45,5	55	44	50	45	2,5
14830	M14	60	56,5	55	45	60	46	2,0
14831	M16	60	56,5	55	45	60	46	2,0
14832	M20	60	56,5	55	45	60	46	2,0

max. static load – in Newton (N)

at Ø B =	25 mm	30 mm	35 mm	38 mm	40 mm	50 mm	60 mm
	5.000 N	5.500 N	5.500 N	6.000 N	6.000 N	10.000 N	12.000 N

Threaded tube ends for round tubes



material: polyamide, threaded bush in nickel plated brass

P/N	A	B	C	L	S	tube outer Ø	tube inner Ø	tube thickness
14799	M10	30	28,4	35	29	30	28	1,0
14800	M12	30	28,4	35	29	30	28	1,0
14801	M14	30	28,4	35	29	30	28	1,0
14773	M10	38	35,5	43	34	38	35	1,5
14752	M12	38	35,5	43	34	38	35	1,5
14774	M14	38	35,5	43	34	38	35	1,5
14764	M16	38	35,5	43	34	38	35	1,5
14775	M10	42	39,9	42	34	42,4	39,4	1,5
14763	M12	42	39,9	42	34	42,4	39,4	1,5
14776	M14	42	39,9	42	34	42,4	39,4	1,5
14750	M16	42	39,9	42	34	42,4	39,4	1,5
14765	M20	42	39,9	42	34	42,4	39,4	1,5
14766	M12	48	45,8	49	38	48,3	45,3	1,5
14777	M14	48	45,8	49	38	48,3	45,3	1,5
14767	M16	48	45,8	49	38	48,3	45,3	1,5
14751	M20	48	45,8	49	38	48,3	45,3	1,5
14754	M12	50	48,4	49	38	50,9	47,9	1,5
14778	M14	50	48,4	49	38	50,9	47,9	1,5
14755	M16	50	48,4	49	38	50,9	47,9	1,5
14768	M20	50	48,4	49	38	50,9	47,9	1,5
14791	M16	60	58	50	38	60,3	57,3	1,5
14792	M20	60	58	50	38	60,3	57,3	1,5
14793	M16	60	57	50	38	60,3	56,3	2,0
14794	M20	60	57	50	38	60,3	56,3	2,0
14802	M16	60	56	50	38	60,3	55,3	2,5
14803	M20	60	56	50	38	60,3	55,3	2,5
14804	M24	60	56	50	38	60,3	55,3	2,5

max. static load – in Newton (N)

at Ø B =	30 mm	38 mm	42 mm	48 mm	50 mm	60 mm
	3.000 N	5.000 N	6.000 N	6.000 N	6.500 N	8.000 N

Threaded tube ends for square tubes



for square tubes with wall thickness 2 mm, if not otherwise stated
threaded insert zinc plated, molded in
G=thread

material: PE/PP, black
threaded insert zinc plated, molded in

* dimensions: for tube – outer Ø
** without ribs
G: thread

P/N	tube*	G
J1600	16x16	M6
J2016	20x16	M8
J2000	20x20	M8
J2500	25x25	M8
J2510	25x25	M10
J2540**	25x25x4	M10
J2700**	27x27x1,5	M10
J3015	30x15	M8

P/N	tube*	G
J3020	30x20	M10
J3025	30x25	M10
J3008	30x30	M8
J3000	30x30	M10
J3036	30x30xR6	M10
J3030	30x30x2,5	M10
J3520	35x20	M10
J3525	35x25	M10

P/N	tube*	G
J3508	35x35	M8
J3500	35x35	M10
J4020	40x20	M10
J4030	40x30	M10
J4000	40x40	M10
J5025	50x25	M10
J5030	50x30	M10
J5040	50x40	M10

**Threaded tube ends
for round tubes**



material: PP, black
for tubes 2 mm thick
threaded insert zinc plated,
molded in

*tube dimensions: outer Ø of tube
G: thread

P/N	tube*	G
JGL2000	20	M8
JGL2700	27	M10
JGL3000	30	M10
JGL3200	32	M10
JGL4200	42	M10
JGL4800	48	M10

**Adjustable feet
for square tubes**



material: PVC, black
for tubes 1,5-2,0 mm thick
height is adjustable with bolt
G: thread/bolt length

*tube dimensions: outside
dimensions of tube

P/N	tube*	G
JL20	20x20	M16x60
JL25	25x25	M16x60
JL30	30x30	M22x60
JL35	35x35	M22x60
JL40	40x40	M22x60
JL50	50x50	M22x60

**Threaded inserts
for square tubes**



material: PE, black
for tubes 2 mm thick
with bushing (not zinc plated)
molded in

G: thread/bushing
*tube dimensions: outside
dimensions of tube

P/N	tube*	G
CGF20208	20x20	M8
CGF25258	25x25	M8
CGF25251	25x25	M10
CGF30208	30x20	M8
CGF30308	30x30	M8
CGF30301	30x30	M10

Height adjuster (round foot)



material: PE, black

useful bolt length
5 mm less each

G/L: thread/bolt length

P/N	foot	G/L	P/N	foot	G/L
K20861	20x8	6x15	K24814	24x8	10x40
K20862	20x8	6x20	K24815	24x8	10x50
K20882	20x8	8x20	K34882	34x8	8x20
K20810	20x8	10x20	K34883	34x8	8x30
K24861	24x8	6x15	K34884	34x8	8x40
K24862	24x8	6x20	K34885	34x8	8x50
K24882	24x8	8x20	K34812	34x8	10x20
K24883	24x8	8x30	K34813	34x8	10x30
K24884	24x8	8x40	K34814	34x8	10x40
K24885	24x8	8x50	K34815	34x8	10x50
K24812	24x8	10x20	K45015	45x8	10x50
K24813	24x8	10x30			

Height adjuster (hexagonal foot)



material: PE, black

useful bolt length
5 mm less each

G/L: thread/bolt length

P/N	foot	G/L	P/N	foot	G/L
L2082	20x20	8x20	L2512	25x25	10x20
L2083	20x20	8x30	L2513	25x25	10x30
L2084	20x20	8x40	L2514	25x25	10x40
L2085	20x20	8x50	L2515	25x25	10x50
L2582	25x25	8x20	L3012	30x30	10x20
L2583	25x25	8x30	L3013	30x30	10x30
L2584	25x25	8x40	L3014	30x30	10x40
L2585	25x25	8x50	L3015	30x30	10x50

Articulated adjustable feet (A)



Base Ø = 48 mm (pivoted)
height = 10 mm

G/L: thread/bolt length

material base:
polyamide, black

material bolt:
DIN 558-4.5A2F zincd

P/N	G/L	P/N	G/L	P/N	G/L	P/N	G/L
S48182	M8x20	S48189	M8x90	S48117	M10x70	S48125	M12x50
S48183	M8x30	S48180	M8x100	S48118	M10x80	S48126	M12x60
S48184	M8x40	S48112	M10x20	S48119	M10x90	S48127	M12x70
S48185	M8x50	S48113	M10x30	S48110	M10x100	S48128	M12x80
S48186	M8x60	S48114	M10x40	S48122	M12x20	S48129	M12x90
S48187	M8x70	S48115	M10x50	S48123	M12x30	S48120	M12x100
S48188	M8x80	S48116	M10x60	S48124	M12x40		

Articulated adjustable feet (A)



Base $\varnothing = 38$ mm (pivoted)
height = 5 mm

G/L: thread/bolt length

material base:
polyamide, black

material bolt:
DIN 558-4.5A2F zincd

P/N	G/L	P/N	G/L	P/N	G/L	P/N	G/L
S38582	M8x20	S38589	M8x90	S38517	M10x70	S38525	M12x50
S38583	M8x30	S38580	M8x100	S38518	M10x80	S38526	M12x60
S38584	M8x40	S38512	M10x20	S38519	M10x90	S38527	M12x70
S38585	M8x50	S38513	M10x30	S38510	M10x100	S38528	M12x80
S38586	M8x60	S38514	M10x40	S38522	M12x20	S38529	M12x90
S38587	M8x70	S38515	M10x50	S38523	M12x30	S38520	M12x100
S38588	M8x80	S38516	M10x60	S38524	M12x40		

Rigid feet

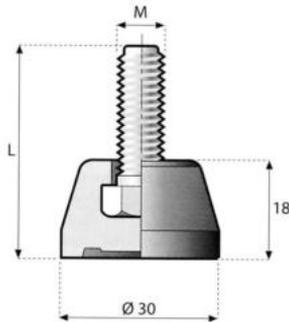


material: base in high density
polyethylene
bolt: stainless steel

Load ratings in Newton (N)
(max. static load)

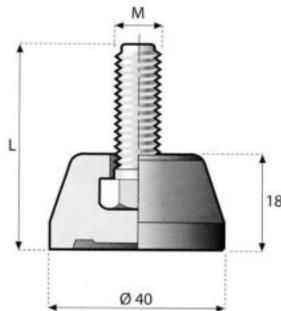
Foot \varnothing 30 mm: 5.000 N
Foot \varnothing 40 mm: 7.000 N
Foot \varnothing 50 mm: 9.000 N

Foot \varnothing 30 mm



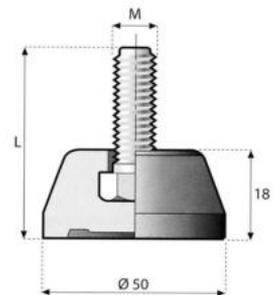
P/N	M	L
170049	8	55
170050	8	75
170051	10	55
170052	10	75

Foot \varnothing 40 mm



P/N	M	L
170059	8	55
170060	8	75
170061	10	55
170062	10	75
170063	12	55
170064	12	75

Foot \varnothing 50 mm



P/N	M	L
170071	8	55
170072	8	75
170073	10	55
170074	10	75
170075	12	55
170076	12	75

Articulated Feet

base: polyamide, glass fibre reinforced

available in $\varnothing 40 - 120$ mm

$\varnothing 80$ und $\varnothing 100$: also available with bores
(can be fixed to the floor)

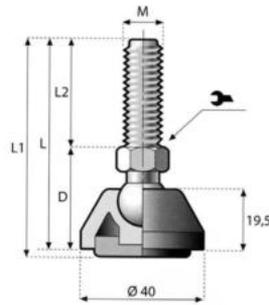
max. static load 1.000 – 2.500 kg,
depends of base- \varnothing and thread

available in standard or anti-slip:

- without rubber pad
- anti-slip with nitrile rubber pad 70 Shore A

bolt: either zinc plated steel or stainless steel 1.4301

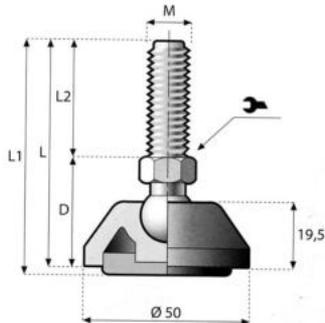
Foot with base- $\varnothing 40$ mm



threads available:
M8 / M10 / M12 / M14 / M16

bolt lengths L: 71 – 188 mm

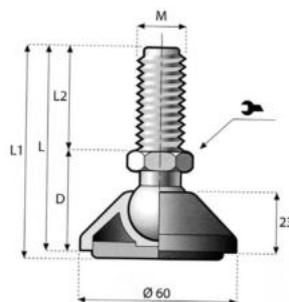
Foot with base- $\varnothing 50$ mm



threads available:
M8 / M10 / M12 / M14 / M16

bolt lengths L: 71 – 188 mm

Foot with base- $\varnothing 60$ mm

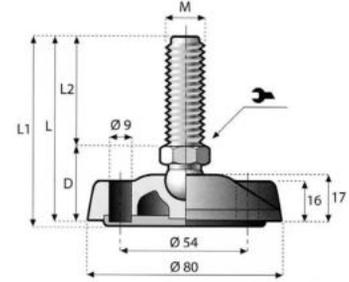
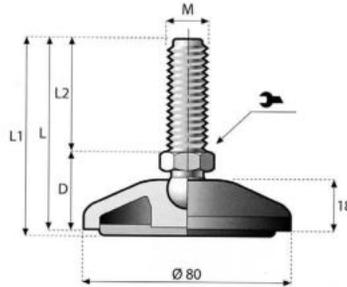


threads available:
M16 / M20 / M24

bolt lengths L: 98-236 mm

Foot with base-Ø 80 mm – available with holes (for fixing to the floor) / without holes

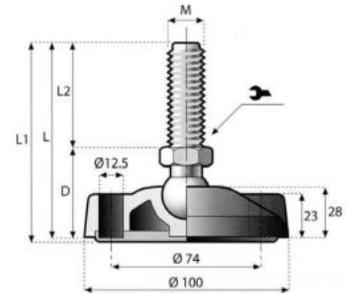
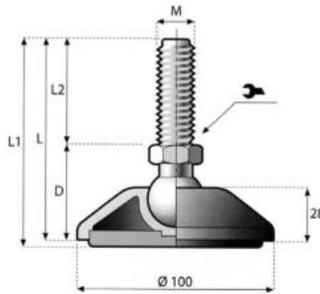
picture: without holes



Thread: M8 / M10 / M12 / M14 / M16 / M20 – bolt length L: 71-181 mm

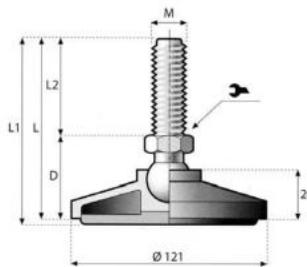
Foot with base-Ø 100 mm – available with holes (for fixing to the floor) / without holes

picture: with holes



Thread: M16 / M20 / M24 – bolt length L: 102 – 240 mm

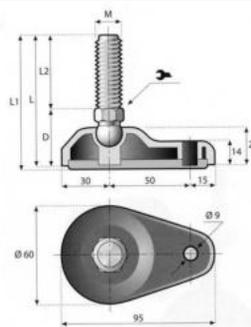
Foot with base-Ø 121 mm



thread:
M16 / M20 / M24

bolt length L: 98 – 236 mm

Foot with oval base: 60x95 mm



thread:
M 8 / 12 / 14 / 16 / M20

bolt length L: 75 – 202 mm

Support base - Bipod

P/N	DF
15727	42,4
15725	48,3
15729	50,9
15731	60,3

material: polyamide,
glass fibre reinforced
metal parts:
stainless steel 1.4301

Support base - Bipod 120°

P/N	DF
15335	48,3
15337	50,9
15339	60,3

material: polyamide,
glass fibre reinforced
metal parts:
stainless steel 1.4301

Support base – Bipod 180 °

P/N	DF
15732	48,3
15736	50,9
15738	60,3

material: polyamide,
glass fibre reinforced
metal parts:
stainless steel 1.4301

Max. static load: 7.500 – 10.000 N (Newton) – depends on chosen style and size

Support base – Bipod

		P/N	DF
		15705	42,4
		15509	48,3
		15825	50,9
		15513	60,3
<p>material: polyamide, glass fibre reinforced metal parts: stainless steel 1.4301</p>			

Support base - Tripod

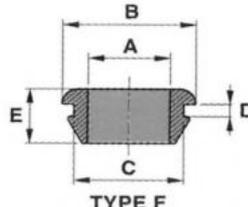
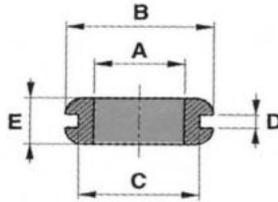
		P/N	DF
		15703	42,4
		15507	48,3
		15826	50,9
		15511	60,3
<p>material: polyamide, glass fibre reinforced metal parts: stainless steel 1.4301</p>			

Reduction bushes

		P/N	DF
		15204	50,9
		15205	48,3
		15206	42,4
		15207	50
<p>material: polyamide</p>			

max. static load of support bases: 7.500 – 10.000 N (Newton) – depends on style and size

Grommets

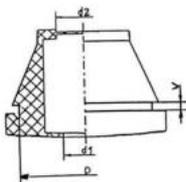


material: soft-PVC
available ex-stock

*:only P/N 0420801, 0421000 +
0421200

P/N	A	B	C	D	E	P/N	A	B	C	D	E
0420250	2,7	8,0	4,8	0,8	4,7	0421000*	10,0	18,0	12,0	2,0	7,0
0420300	3,0	9,0	6,0	0,6	4,6	0421001	10,0	20,0	15,0	4,0	9,0
0420301	3,2	8,0	4,8	1,6	6,4	0421002	10,0	18,0	14,0	6,0	10,0
0420302	3,0	11,0	8,0	3,0	8,0	0421100	11,0	20,0	14,0	1,6	5,5
0420400	4,5	9,5	6,4	1,2	6,0	0421101	11,0	19,0	14,0	1,6	6,4
0420401	4,0	9,5	6,4	1,6	6,4	0421200*	12,0	19,5	16,0	2,0	8,5
0420402	4,0	9,5	6,4	3,0	8,0	0421201	12,5	20,5	16,0	1,2	7,0
0420500	4,8	9,6	6,4	1,6	6,5	0421202	12,5	22,0	17,5	1,6	6,4
0420501	5,0	11,0	8,0	1,5	6,0	0421400	14,0	23,0	18,0	2,0	8,0
0420502	5,0	11,0	8,0	3,0	8,0	0421401	14,0	22,0	17,5	1,6	4,7
0420600	6,0	11,5	9,0	1,5	6,0	0421600	16,0	28,0	20,0	2,0	8,0
0420601	6,4	14,0	9,5	2,4	7,0	0421601	16,0	24,0	19,0	1,6	6,4
0420700	8,0	14,0	10,0	1,5	8,0	0421800	18,0	30,0	23,0	2,0	8,0
0420701	7,0	13,5	10,0	5,9	9,7	0421801	18,5	31,5	25,0	1,6	8,0
0420800	8,0	18,0	14,0	1,0	6,0	0422000	20,0	32,0	26,0	2,0	9,0
0420801*	8,0	15,0	11,5	1,5	9,0	0422200	22,0	32,0	25,5	1,6	8,0
0420802	8,0	14,0	11,0	1,6	8,0	0422500	25,0	35,0	31,0	3,0	10,0
0420803	8,0	16,0	12,5	3,0	8,0	0422501	25,5	38,0	32,0	1,6	7,5
0420900	9,0	16,0	12,0	1,5	6,5	0423200	32,0	46,0	38,0	1,6	9,5
0420901	9,5	17,0	12,5	3,0	8,8	0423201	32,0	46,0	38,0	3,0	11,0

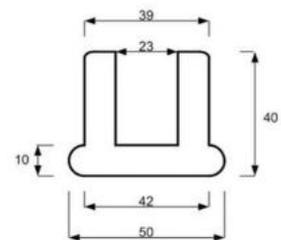
Grommets



"TÜV"-tested
acc. to IP 67
material: CR 60 ° Shore A,
black

CR = clamp range

Rubber bumper



P/N	CR	d1	d2	D	v
TET032	5-7	4	4,5	16	1-2
TET033	7-10	6	7,0	18	1-3
TET034	10-14	8	9,0	23	1-4
TET035	14-20	13	14,0	28	1-4
TET036	20-26	16	19,0	38	1-4
TET037	26-35	21	25,0	48	1-4

P/N	
	material: EPDM 45 ° Shore A, black available ex-stock

Cable glands / Locknuts / Blanking plugs



material: impact resistant polyamide

In RAL 7035 (light gray) ex-stock
– also available in RAL 7001 (dark gray) and RAL 9005 (black) upon request

PG-standard

	CR	thr.length	spanner size
PG 7	3,0 – 6,5	8,0	SW15
PG 9	4,0 – 8,0	8,0	SW19
PG11	5,0 – 10,0	8,0	SW22
PG13,5	6,0 – 12,0	9,0	SW24
PG16	10,0 – 14,0	11,0	SW27
PG21	13,0 – 18,0	11,0	SW33
PG29	18,0 – 25,0	11,0	SW42
PG36	22,0 – 32,0	13,0	SW53
PG42	30,0 – 38,0	13,0	SW60
PG48	34,0 – 44,0	14,0	SW65

Thread size	depth	spanner size
PG 7	5,0	SW19
PG 9	5,0	SW22
PG11	5,0	SW24
PG13,5	6,0	SW27
PG16	6,0	SW30
PG21	7,0	SW36
PG29	7,0	SW46
PG36	8,0	SW60
PG42	8,0	SW65
PG48	8,0	SW70

Thread size	Ø flange	depth	
		h1	h2
PG 7	15	6,0	2,0
PG 9	19	6,0	3,0
PG11	22	6,0	3,0
PG13,5	25	6,0	3,5
PG16	27	6,0	3,5
PG21	33	8,0	3,0
PG29	44	8,0	4,0
PG36	55	10,0	5,0
PG42	62	10,0	6,0
PG48	69	12,0	4,0

Metric-standard

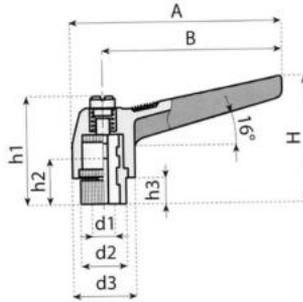
	CR	thr.length	spanner size
M12x1,5	3,0 – 6,5	8,0	SW15
M16x1,5	4,0 – 8,0	8,0	SW19
M20x1,5	6,0 – 12,0	9,0	SW24
M25x1,5	10,0 – 14,0	11,0	SW27
M32x1,5	18,0 – 25,0	11,0	SW42
M40x1,5	22,0 – 32,0	13,0	SW53
M50x1,5	30,0 – 38,0	13,0	SW60
M63x1,5	34,0 – 44,0	14,0	SW68

	depth	spanner size
M12x1,5	5,0	SW15
M16x1,5	7,0	SW19
M20x1,5	8,0	SW24
M25x1,5	9,0	SW27
M32x1,5	7,0	SW42
M40x1,5	7,0	SW53
M50x1,5	8,0	SW60
M63x1,5	8,0	SW68

Thread size	Ø flange	depth	
		h1	h2
M12x1,5	17	5,0	2,0
M16x1,5	21	6,0	3,0
M20x1,5	25	6,0	3,0
M25x1,5	30	7,0	3,0
M32x1,5	38	8,0	4,0
M40x1,5	46	8,0	5,0
M50x1,5	56	9,0	5,0
M63x1,5	69	10,0	5,0

thr.length: length of thread CR: clamping range h1: length of thread h2: flange

Clamping levers 16°

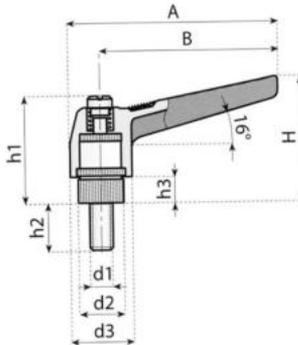


Clamping lever 16°

material:
polyamide, glass fibre
reinforced, black

threaded bush in nickel plated
brass

P/N	A	B	H	d1	d2	d3	h1	h2	h3
14220	50	42	32	M6	12	19	29	9	3
14221	73	63	43	M8	15	25	39	13	4
14222	92	80	54	M10	16	30	48	16	6



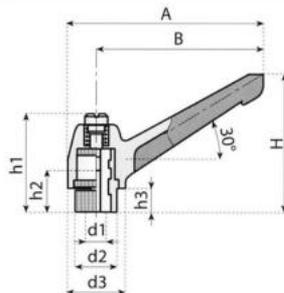
Clamping lever 16°

material:
polyamide, glass fibre reinforced,
black

bolt: stainless steel

P/N	A	B	H	d1	d2	d3	h1	h2	h3
14230	50	42	32	M6	12	19	29	20	3
14231	50	42	32	M6	12	19	29	30	3
14232	73	63	43	M8	15	25	39	20	4
14233	73	63	43	M8	15	25	39	25	4
14234	73	63	43	M8	15	25	39	30	4
14235	92	80	54	M10	16	30	48	25	6
14236	92	80	54	M10	16	30	48	30	6

Clamping lever 30°

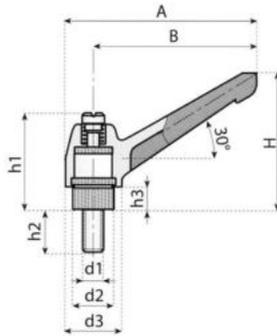


material:
polyamide, glass fibre
reinforced, black

threaded bush in nickel plated
brass

P/N	A	B	H	d1	d2	d3	h1	h2	h3
14200	49	40	38	M6	11	18	30	12	7
14201	65	55	49	M8	14	22	37	14	10
14202	93	80	68	M10	20	29	48	20	12

Clamping lever 30°



Clamping lever 30°

material:
polyamide, glass fibre reinforced,
black

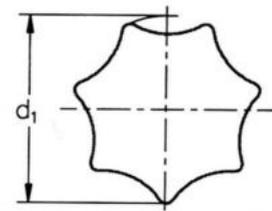
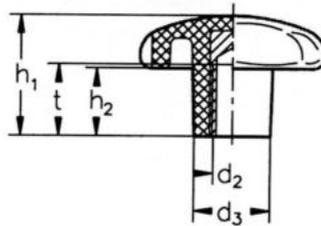
bolt: stainless steel

P/N	A	B	H	d1	d2	d3	h1	h2	h3
14199	49	40	38	M6	11	18	30	15	7
14203	49	40	38	M6	11	18	30	20	7
14204	65	55	49	M8	14	22	37	25	10
14205	65	55	49	M8	14	22	37	30	10
14208	65	55	49	M8	14	22	37	60	10
14206	93	80	68	M10	20	29	48	25	12
14207	93	80	68	M10	20	29	48	30	12

Other dimensions and types on request

Star knob with inside thread

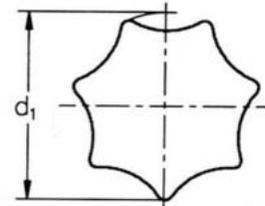
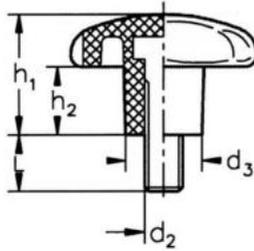
DIN 6336 material: polyamide, black – inside thread brass



P/N	d1	d2	d3	h1	h2	t		P/N	d1	d2	d3	h1	h2	t
SG-25-M5	25	M5	13	16	8	7		SG-50-M10	50	M10	21	32	19	20
SG-25-M6	25	M6	13	16	8	7		SG-60-M8	60	M8	24	40	20	24
SG-30-M6	30	M6	15	20	10	10		SG-60-M10	60	M10	24	40	20	24
SG-30-M8	30	M8	15	20	10	10		SG-60-M12	60	M12	24	40	20	24
SG-40-M6	40	M6	16	23	11	12		SG-80-M10	80	M10	34	47	26	24
SG-40-M8	40	M8	16	23	11	12		SG-80-M12	80	M12	34	47	26	24
SG-50-M8	50	M8	21	32	19	20		SG-80-M16	80	M16	34	47	26	24

Star knobs with threaded bolts

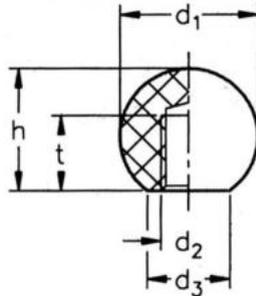
DIN 6336 material: polyamide, black – bolt: zinc plated steel



P/N	d1	d2	L	d3	h1	h2	P/N	d1	d2	L	d3	h1	h2
SG-25-M5x10	25	M5	10	13	16	8	SG-50-M8x10	50	M8	10	21	32	19
SG-25-M5x25	25	M5	25	13	16	8	SG-50-M8x30	50	M8	30	21	32	19
SG-25-M5x40	25	M5	40	13	16	8	SG-50-M8x35	50	M8	35	21	32	19
SG-30-M5x15	30	M5	15	15	20	10	SG-50-M8x45	50	M8	45	21	32	19
SG-30-M5x45	30	M5	45	15	20	10	SG-50-M8x50	50	M8	50	21	32	19
SG-30-M6x10	30	M6	10	15	20	10	SG-50-M10x15	50	M10	15	21	32	19
SG-30-M6x20	30	M6	20	15	20	10	SG-50-M10x25	50	M10	25	21	32	19
SG-30-M6x30	30	M6	30	15	20	10	SG-50-M10x35	50	M10	35	21	32	19
SG-30-M8x15	30	M8	15	15	20	10	SG-50-M10x65	50	M10	65	21	32	19
SG-30-M8x30	30	M8	30	15	20	10	SG-60-M8x15	60	M8	15	24	40	20
SG-30-M8x50	30	M8	50	15	20	10	SG-60-M8x25	60	M8	25	24	40	20
SG-40-M6x15	40	M6	15	16	23	11	SG-60-M8x35	60	M8	35	24	40	20
SG-40-M6x25	40	M6	25	16	23	11	SG-60-M10x20	60	M10	20	24	40	20
SG-40-M6x35	40	M6	35	16	23	11	SG-60-M10x30	60	M10	30	24	40	20
SG-40-M6x50	40	M6	50	16	23	11	SG-60-M10x60	60	M10	60	24	40	20
SG-40-M8x10	40	M8	10	16	23	11	SG-60-M12x25	60	M12	25	24	40	20
SG-40-M8x20	40	M8	20	16	23	11	SG-60-M12x30	60	M12	30	24	40	20
SG-40-M8x30	40	M8	30	16	23	11	SG-60-M12x40	60	M12	40	24	40	20
SG-40-M8x40	40	M8	40	16	23	11	SG-80-M12x40	80	M12	40	34	49	26
SG-40-M8x60	40	M8	60	16	23	11							

Other sizes and bolt lengths upon request

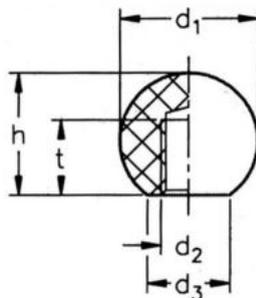
Self-fixing ball knobs



material: polyamide, black

P/N	d1	d2	d3	h	t	P/N	d1	d2	d3	h	t
KG-20-4	20	4	12	18	10	KG-33-8	33	8	16	31	20
KG-20-5	20	5	12	18	10	KG-33-10	33	10	16	31	20
KG-20-6	20	6	12	18	10	KG-33-12	33	12	16	31	20
KG-20-8	20	8	12	18	10	KG-40-10	40	10	23	35	20
KG-25-6	25	6	14	23	15	KG-40-12	40	12	23	35	20
KG-25-8	25	8	14	23	15	KG-40-16	40	16	23	35	20
KG-25-10	25	10	14	23	15						

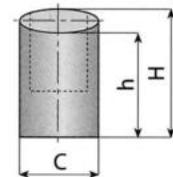
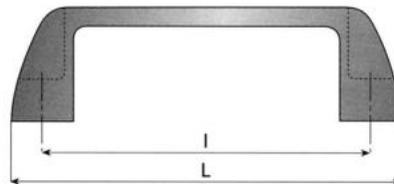
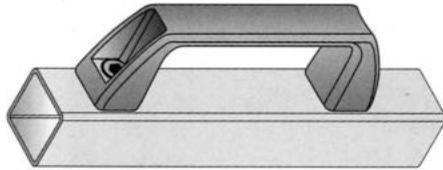
Ball knobs with molded threads



material: polyamide, black

P/N	d1	d2	d3	h	t	P/N	d1	d2	d3	h	t
KG-15-M4	15	M4	9	15	7	KG-35-M8	35	M8	19	33	18
KG-15-M5	15	M5	9	15	7	KG-35-M10	35	M10	19	33	18
KG-15-M6	15	M6	9	15	7	KG-40-M8	40	M8	23	35	18
KG-20-M4	20	M4	12	18	9	KG-40-M10	40	M10	23	35	18
KG-20-M5	20	M5	12	18	9	KG-40-M12	40	M12	23	35	18
KG-20-M6	20	M6	12	18	9	KG-45-M8	45	M8	15	45	20
KG-20-M8	20	M8	12	18	9	KG-45-M10	45	M10	15	45	20
KG-25-M5	25	M5	14	23	11	KG-45-M12	45	M12	15	45	20
KG-25-M6	25	M6	14	23	11	KG-45-M14	45	M14	15	45	20
KG-25-M8	25	M8	14	23	11	KG-50-M10	50	M10	26	47	21
KG-25-M10	25	M10	14	23	11	KG-50-M12	50	M12	26	47	21
KG-30-M6	30	M6	14	28	14	KG-50-M16	50	M16	26	47	21
KG-30-M8	30	M8	15	27	14						
KG-30-M10	30	M10	16	27	14						

Bridgehandles



material: polyamide, glass fibre reinforced - black

P/N	I	L	C	H	h	A	B	D	d	Type 1
14121	93,5	112	21	36	30	13	6	10,5	6,5	
14122	117	139	26	41	34	15	8,5	10,5	6,5	
14123	117	139	26	41	34	15	6	13	8,5	
14131	120	139	26	41	34	10	5	9	5,5	
14130	120	139	26	41	34	10	4	10,5	6,5	

P/N	I	L	C	H	h	B	M			Type 2
14124	93,5	112	21	36	30	9	6			<p>material bush: brass</p>
14125	117	139	26	41	34	9	6			
14126	117	139	26	41	34	9	8			
14132	120	139	26	41	34	8	5			
14133	120	139	26	41	34	9	6			

P/N	I	L	C	H	h	A	B	D	d	Type 3
14128	120	139	26	41	34	10	8	9	5	
14129	120	139	26	41	34	10	7	10,5	5,5	

Bridge handles

P/N	M
14115	6
14116	8
14117	10

material:
polyamide, glass fibre reinforced
black
material bush: brass

Safety handles

P/N	type
14114	closed
14135	open

material:
polyamide, glass fibre reinforced
black

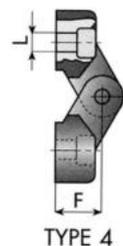
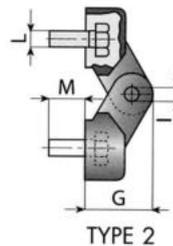
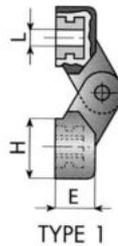
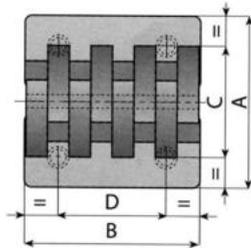
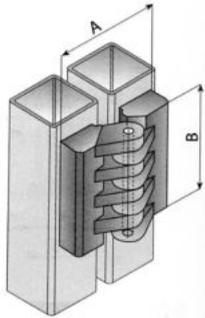
Bridge handles „Vario“

material:
polyamide, 30% glass fibre reinforced
black
incl. 2 caps for covering of fixing bores

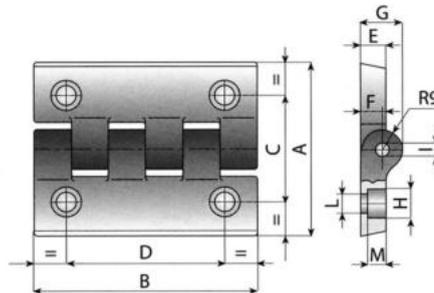
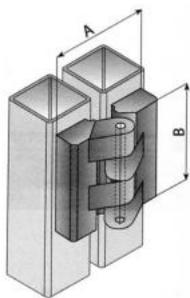
P/N	L	H	B	H1	MA	L1	h1	h2	SW/Ø	d
P225-094	110	36	21	30	90-94	72,5	12,0	5	10/10	6,5
P225-118	137	42	26	35	112-118	92,5	13,5	5	13/13	8,5
P225-132	151	42	26	35	126-132	106,5	13,5	5	13/13	8,5

Hinges

180°, material: polyamide, glass fibre reinforced - Inserts: brass. Bolts: stainless steel 1.4301

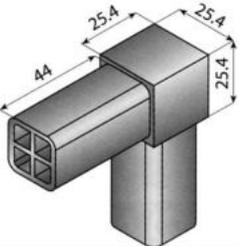
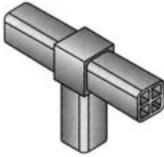
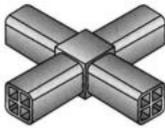
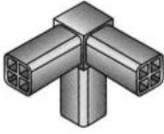
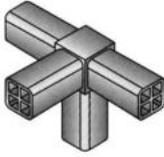
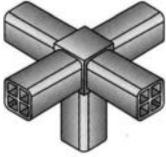
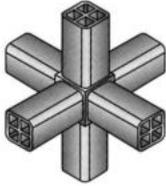
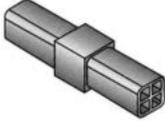
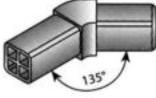
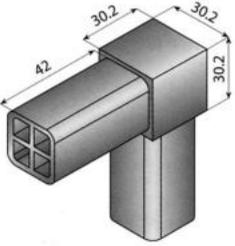
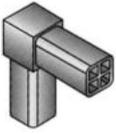
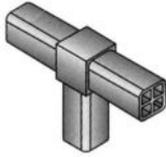
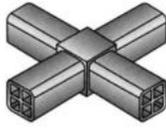
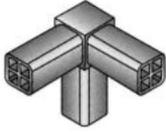
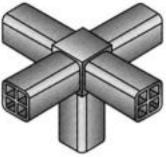
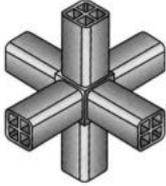
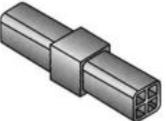
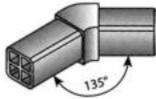


Type	P/N	A	B	C	D	E	F	G	H	I	L	M
3	40018	39	39,5	25,5	25,5	9	9,5	14,5	14	3	4,2	-
1	40009	49	49	31	30	11	13	19	17	4	M6	-
1	40012	49	49	31	30	11	13	19	17	4	M5	-
2	40015	49	49	31	30	11	13	19	17	4	M5	14
3	40019	49	49	31	30	11	13	19	17	4	5,5	-
4	40031	49	49	31	30	11	13	19	17	4	5,5	-
1	40013	64	65	40	40	13,5	15	23	24	5	M6	-
2	40016	64	65	40	40	13,5	15	23	24	5	M6	17
3	40020	64	65	40	40	13,5	15	23	24	5	6,5	-
1	40014	97,5	97,5	63	60	20,5	23	35	35	8	M10	-
2	40017	97,5	97,5	63	60	20,5	23	35	35	8	M10	20
3	40021	97,5	97,5	63	60	20,5	23	35	35	8	10,5	-



P/N	A	B	C	D	E	F	G	H	I	L	M
14104	70	50	46	30	10	11	20	10,5	6	6,5	6
14105	70	50	46	30	10	11	20	13,5	6	8,5	4
14112	80	102	49,5	72,5	11,5	10	19	10,5	6	6,5	6
14106	80	102	49,5	72,5	11,5	10	19	13,5	6	8,5	8
14113	80	102	49,5	72,5	18	16,5	25,5	10,5	6	6,5	6
14107	80	102	49,5	72,5	18	16,5	25,5	13,5	6	8,5	8

Tube connectors

		<p>For square tubes 25 x 25 x 1,5 mm</p> <p>material: polyamide, glass fibre reinforced</p>							
									
P/N	Type	P/N	Type	P/N	Type	P/N	Type	P/N	Type
40001	A	40002	B	40003	C	40004	D	40005	E
									
P/N	Type	P/N	Type	P/N	Type	P/N	Type		
40006	F	40007	G	40008	H	40035	K		
		<p>For square tubes 30 x 30 x 2,0 mm</p> <p>material: polyamide, glass fibre reinforced</p>							
									
P/N	Type	P/N	Type	P/N	Type	P/N	Type	P/N	Type
40022	I	40023	L	40024	M	40025	N	40026	O
									
P/N	Type	P/N	Type	P/N	Type	P/N	Type		
40027	P	40028	Q	40029	R	40036	S		

Leveling mounts, adjustable feet



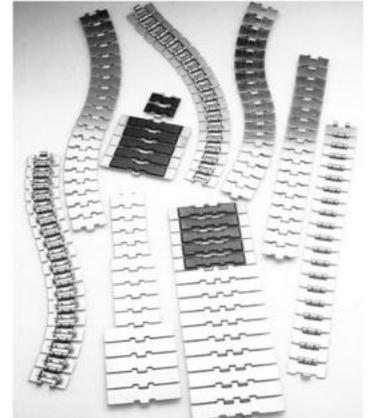
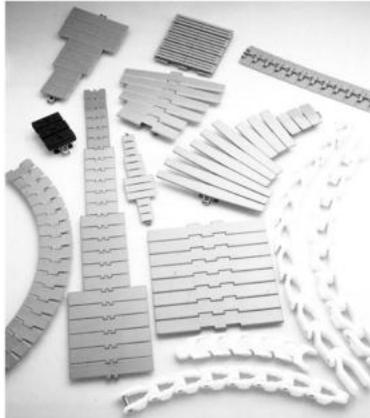
Flange mountings



Miscellaneous components



**Chain/Sprocket wheels
Chains – plastic or metal**



**Protective components
for encasements**



Request for catalog

If interested in these products please ask for your catalog:

**Stöffl Rudolf GmbH
Gewerbeparkstraße 8
4615 - Holzhausen**

Fax: +43 (0)7243/51 333

Company	Contact person
Address	Phone:
Catalog:	Fax :
	email:

Overview

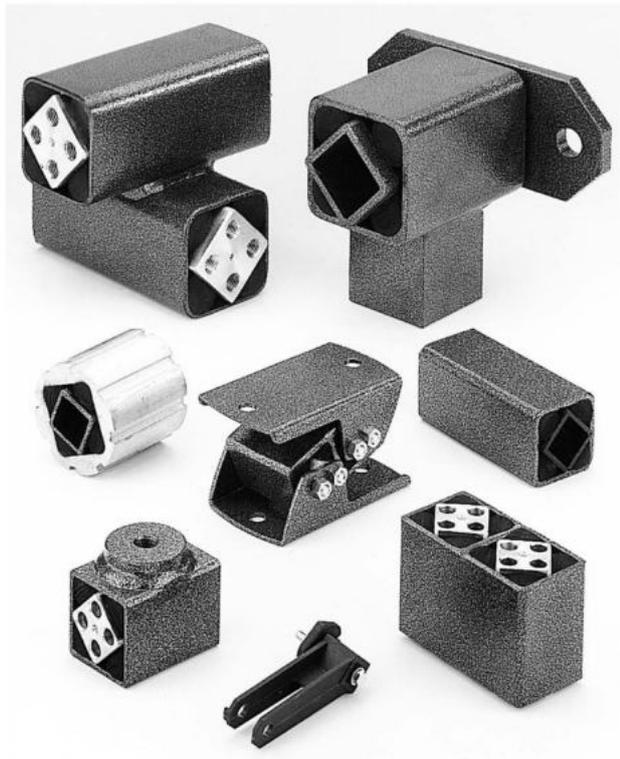
Rubber suspension elements – Oscillating mountings – Anti-vibration mountings:
as shown below on this page, please also see overview on pages 95 + 96

Tensioning devices :
pages 97, 98, 99

You will find all types and dimensions as well as a variety of application examples listed on our website www.stoeffl.com - Products/Rubber suspension elements, Oscillating elements
All tech data sheets available for pdf-download or upon request

Our product range includes another 4 series of tensioning devices – TEN BLOC, TEN JOY, ASSO and ARCO (page 100 + 101). If you are interested in these parts, just contact us and we will provide you with further information.

Rubber suspension elements – Oscillating mountings – Anti-vibration mountings



Rubber suspension elements

Overview of all available types on page 95

- multi-purpose and versatile components for a variety of applications in modern machine construction
- available in 8 different types and more than 150 sizes
- multifunctional, maintenance-free, efficient and cost-effective elastic components for use as springs, bearings and dampers

Oscillating mountings – Anti-vibrations mountings

Overview of all available types on page 96

- suspensions and mountings used for suspending and supporting screening machines, sorters, shaker systems, oscillating conveyors
- elastic elements for vibration-damping machine mounting

Detailed information and tech data for the different types available on our website www.stoeffl.com
- or tech data sheets upon request -

Rubber suspension elements - Oscillating elements – Anti-vibration mountings

The elements shown on pages 95 + 96 are available in numerous sizes each type.

These machine components are highly resilient and thus feature high oscillation and vibration damping properties.



All these parts follow the same functional principle: Inner and outer squares (core and surrounding housings) are set to each other at an angle of 45° and in the thereby formed free spaces there are four pretensioned special rubber inserts. Together they form an integral spring device with dampening function caused by molecular friction within the rubber inserts.

These elements can operate and be used for oscillating angles of up to +/- 30 °.

Detailed information and tech data for the different types available on our website www.stoeffl.com
- or tech data sheets upon request -

Rubber suspension elements



Type AR-T



Type AR-P



Type AR-F



Type AC-T



Type AC-P

We also provide all appropriate accessories for the fixing and positioning of the rubber suspension elements by means of screw connections.

No welding connection permissible – otherwise damage of the rubber inserts by overheating !

Fixing Elements



Type AD-T



Type AD-P



Type AS-P

Oscillating elements, rocker suspensions, anti-vibration mountings



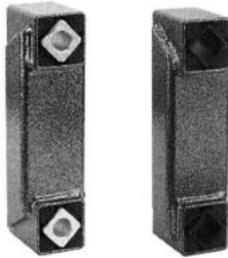
Type BT-F



Type TB



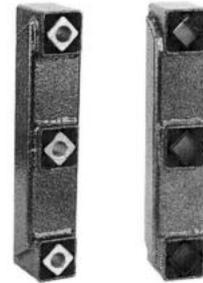
Type TP-S



Type TP-F and TP-T



Type TD-S



Type TD-F and TD-T



Type CR-P



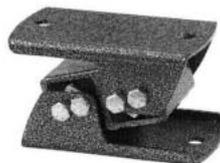
Type DE



Type DE-2L



Type Y



Type AN



Type PAR-T

Tensioner devices – chain tensioners, belt tensioners

Housings and metal parts: zinc plated steel



Tensioner Devices and Accessories

Overview pages 98 + 99

Detailed information and tech data for the different types available on our website www.stoeffl.com - or tech data sheets upon request -

- chain and belt tensioning – vibration damping
- designed to provide smooth and reliable running of chain drives
- easy to install – extend operation periods of the chain drives
- the tensioning elements operate as rubber springs and absorb and reduce chain vibrations
- all tensioners also can be supplied with electrical devices
- also available with pretensioning devices to provide easy installation and adjustment

Tensioner devices – chain tensioners, belt tensioners

Housings: plastic – Metal parts: stainless steel



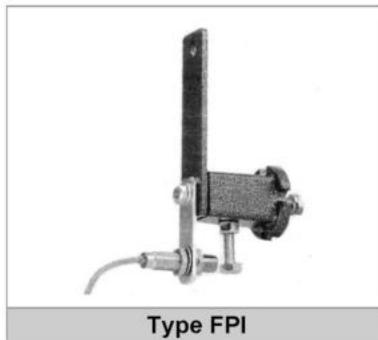
Tensioner Devices and Accessories

Overview pages 98 + 99

Detailed information and tech data for the different types available on our website www.stoeffl.com - or tech data sheets upon request -

- made of plastic and stainless steel and therefore primarily suitable for applications in the food industry and chemical processing technology and where rust-proof solutions are required
- applications as mentioned above - chain tensioners, reducers, shock absorbers, elastic mountings

Tensioner Devices



Chain rider sets, sprocket wheel sets, wheel sets



Chain rider set - Type VR / XVR



Chain rider set - Type LR / XLR



Wheel set - Type RO / XRO



Sprocket wheel set



Sprocket wheel set

Sprocket wheel sets available in different types – see figures left

Type XZN
Type AZN
Type ZN / ZI / ZK
Type XZK

Types acc. to pages 98+99	Description	Materials (MP = Metal parts)	Comments
RE + REP	Tensioning device	Housing steel / metal parts: zinc plated steel	REP: with pretensioning bolt
FE + FEP	Tensioning device	Housing steel / metal parts: zinc plated steel	FEP: with pretensioning bolt
BE + BEP	Tensioning device	Housing steel / metal parts: zinc plated steel	BEP: with pretensioning bolt
ME + MEP	Tensioning device	Housing steel / metal parts: zinc plated steel	MEP: with pretensioning bolt
CEA + CEAP	Tensioning device	Housing steel / metal parts: zinc plated steel	CEAP: with pretensioning bolt
CEB + CEBP	Tensioning device	Housing steel / metal parts: zinc plated steel	CEBP: with pretensioning bolt
FM	Tensioning device	Housing steel / metal parts: zinc plated steel	with electrical device
FPI	Tensioning device	Housing steel / metal parts: zinc plated steel	with electrical device
PX	Tensioning device	Housing plastic / MP: stainless steel	
SN	Tensioning device	Housing plastic / MP: stainless steel	
RP	Tensioner pulley	Polyamide / zinc plated steel	
XRP	Tensioner pulley	Polyamide / stainless steel	
RU	Tensioner pulley	Zinc plated steel / zinc plated steel	
XRU	Tensioner pulley	Stainless steel / stainless steel	
VR	Chain rider set	Polyethylene / zinc plated steel	
XVR	Chain rider set	Polyethylene / stainless steel	
LR	Chain rider set	Polyethylene / zinc plated steel	
XLR	Chain rider set	Polyethylene / stainless steel	
RO	Wheel set	Polyethylene / zinc plated steel	
XRO	Wheel set	Polyethylene / stainless steel	
XZN	Sprocket wheel set	Polyethylene / stainless steel	
AZN	Sprocket wheel set	Polyethylene / zinc plated steel	
ZN / ZI / ZK	Sprocket wheel set	Steel / zinc plated steel	differ in type of ball-bearing
XZK	Sprocket wheel set	Stainless steel / stainless steel	

Product line TEN BLOC



The product line TEN BLOC features a variety of interchangeable modular components, which can be combined in numerous ways to provide efficient and cost-effective mounting solutions for a wide range of applications.

These axial components serve as:

- self-adjustable chain tighteners
- self-adjustable belt tighteners
- shock absorbers
- manual chain tighteners

Various other applications are possible.

Further information on request.

Product line TEN JOY



The system TEN JOY is another product line for elastic, axial elements.

- self-adjustable chain tighteners
- self-adjustable belt tighteners
- shock absorbers
- decelerators and restraining elements

Especially suitable for conveyor systems with roller chains

Further information on request.

Product line ARCO



ARCO components are elastic spring elements with rotational function. Possible rotation angles are +/- 40° and +/- 90°.

Due to their compact design and small dimensions and 5 different mounting possibilities these elements are very suitable for applications where space-saving mounting is required. Parts can be mounted without additional use of brackets or other fixing elements.

ARCO tensioning elements are also suitable for use under tough environmental conditions such as exposure to extremely high/low temperatures. Standard material is galvanized steel but parts also can be provided with special surface finishing to achieve better resistance to chemical media.

Main applications of ARCO elements are chain and belt tensioners. Further applications are decelerators; vibration damping mountings for motors, compressors; elastic springs.

Further information on request

Product line ASSO



The tensioning system ASSO shows versatile mechanical elastic elements which are extremely easy to operate and fast and precisely in mounting.

Main applications also are automatic chain and belt tightening.

However, this modular system also finds use in many other applications. The base elements of this product line can easily be assembled in various ways to more complex devices which then function as shock absorbing and vibration damping mountings acc. to the specific application needs.

Further information on request

Product Range - FPM/FKM Parts

The difference between FPM, FKM, Viton®

In practice, the terms FPM, FKM and Viton® very often cause confusion and lead to incorrect interpretations. All of these designations actually stand for one single base material only – fluoro rubber. FPM is the international abbreviation according to DIN/ISO, whereas FKM is the short form for the fluoroelastomer category according to the American standard ASTM. Viton® is the registered trade mark of DuPont Dow Elastomers.

You will find detailed information about the outstanding properties of fluoro elastomers (FPM/FKM) on pages 106 + 107.

We also can provide you with standard parts of this material.

The following parts are available in FPM/FKM:

- Cords - please also see page 60
- Cord rings
- Hoses – please see below
- Profiles – on request
- Sheet material
- Molded parts – on request

FPM/FKM Hoses

P/N	inner diameter	wall thickness	purchase unit
ST95-14-0005	4	1,0	50 m
ST95-14-0006	4	1,5	50 m
ST95-14-0007	4	2,0	50 m
ST95-14-0008	5	1,0	50 m
ST95-14-0009	5	1,5	50 m
ST95-14-0010	5	2,0	50 m
ST95-14-0011	6	1,0	50 m
ST95-14-0012	6	1,5	50 m
ST95-14-0013	6	2,0	50 m
ST95-14-0014	7	1,5	50 m
ST95-14-0027	7	2,0	50 m
ST95-14-0015	8	1,5	50 m
ST95-14-0016	8	2,0	50 m
ST95-14-0017	9	2,0	25 m
ST95-14-0018	10	1,5	25 m
ST95-14-0019	10	2,0	25 m
ST95-14-0020	12	1,5	25 m
ST95-14-0021	12	2,0	25 m
ST95-14-0022	15	2,0	25 m
ST95-14-0023	18	2,0	25 m

Characteristic	NR	SBR	IIR	EPDM	NBR	HNBR	CR	CSM	ACM	PU	Q	MFQ	FPM
Durometer range Shore A	30-90	35-95	30-80	30-90	30-95	45-90	30-90	45-90	50-90	55-95	30-85	40-80	45-95
Tensile strength without fillers	1	5	4	5	5	4	3	5	5	2	3	3	4
Tensile strength filler-reinforced	1	2	3	3	2	1	2	3	3	1	3	3	3
Elongation at break	1	2	2	3	2	2	2	3	3	2	3	3	3
Impact resilience	2	3	5	3	3	3	3	4	5	3	3	3	5
Abrasion resistance	2	2	3	3	2	2	2	3	4	1	4	4	4
Tear-growth resistance	2	3	3	3	3	2	2	4	4	3	5	5	4
Compression set at -40° C	3	3	5	4	5	5	5	5	5	5	3	3	5
Compression set at +20° C	2	3	4	3	3	2	3	5	3	3	2	2	2
Compression set at +100° C	5	5	2	2	5	2	4	5	5	5	1	1	1
Temperature resistance from/to in °C	-40 +70	-30 +80	-30 +90	-35 +120	-20 +80	-50 +140	-30 +90	-10 +90	-5 +150	-40 +80	-60 +200	-55 +175	-20 +200
Low temperature flexibility	2	3	2	2	3	3	3	5	5	4	1	1	5
Ageing resistance	3	3	2	1	3	1	2	2	2	2	1	1	1
Resistance to ozone	4	4	2	1	3	1	2	2	2	2	1	1	1
Resistance to fuels	5	5	5	5	1	1	2	2	1	1	5	1	1
Oil- and grease resistance	5	5	5	5	1	1	2	2	1	1	3	1	1
Resistance to acids	3	3	2	1	4	4	2	2	5	5	5	5	1
Resistance to bases	3	3	2	2	3	3	2	2	5	5	5	5	1
Resistance to hot water	3	2	1	1	3	2	3	3	5	5	5	5	2
Gas permeability	5	4	1	4	2	2	3	3	3	1	5	5	2

1 = excellent 2 = very good 3 = good 4 = fair 5 = poor

NR	Natural rubber	CSM	Chlorosulfonated polyethylene
SBR	Styrene-butadiene rubber	ACM	Polyacrylate rubber
IIR	Butyl rubber	PU	Polyurethane rubber
EPDM	Ethylene-propylene rubber	Q	Silicone rubber
NBR	Butadiene-acrylo-nitrile rubber	MFQ	Fluorosilicone rubber
HNBR	Hydrogenated nitrile rubber	FPM	Fluoro rubber
CR	Chloroprene rubber		

The range of properties that can be developed for any given polymer is limited by the material itself, and will vary within that range with compound formulation. All properties in a particular class are not found in a single compound. However, it is often possible to raise or lower some ratings to acceptable levels through creative compounding. The information presented herein is intentionally general in nature as it represents a consensus based on input from many sources. Selecting the best elastomer for a particular application isn't always easy or clear cut. Temperature and other environmental factors can affect the long-term physical properties of a compound. The best course is to seek a balance of properties desired for an application. Information about the original material and service conditions can help when seeking a replacement material for an existing product.

Natural Rubber (NR)		Common names, trade names: SMR, Latex, smoked sheets, Para
<small>(in this catalog „NK“ for the German designation „Naturkautschuk“)</small>		
+	very good resilience and mechanical properties (tensile strength, elongation, abrasion resistance)	
+	ability to recover after applied deformation	
-	fair/poor resistance to oil, heat, weathering and ozone	
-	flammable	

Styrene-butadiene rubber (SBR)		Trade names: BUNA-S [®] , KER [®] , EUROPRENE [®]
+	better abrasion resistance and ageing resistance than NR	
+	withstands for short periods of time higher temperatures than NR	
-	fair/poor resistance to oils, greases and fuels	
-	less tear growth resistance than NR; flammable	

Butyl rubber (IIR)		Trade names: BUTYL, BUCAR [®]
+	good resistance to weathering and ozone; very low permeability to air and gases; good electrical resistance	
+	good low temperature properties; highly dampening material against aperiodic oscillations	
+	good resistance to hot water and chemicals	
-	low resilience; no resistance to oils and greases	
-	flammable	

Ethylene-propylene rubber (EPDM)		Trade names: NORDEL [®] , KELTAN [®] , VISTALON [®] , DURTRAL [®] , BUNA EP [®]
+	excellent resistance to weathering, ageing, ozone, chemicals, hot water/steam and polar solvents such as acetone, methanol or esters; excellent electrical insulating properties	
+	very good heat resistance, good low temperature properties	
-	fair resistance to aliphatic and aromatic hydrocarbons (mineral oils, gasoline, fuels)	
-	flammable	

Nitrile rubber (NBR)		Trade names: PERBUNAN [®] , BUNA-N [®] , HYCAR [®] , EUROPRENEN [®] , NIPOL [®]
+	very good resistance to oil and fuels; good mechanical strength; good compression set properties	
+	better heat resistance than SBR, low gas permeability	
-	fair weathering resistance; flammable with formation of toxic flue gases	
-	poor resistance to aromatics and polar solvents	

Hydrogenated nitrile rubber (HNBR)		Trade names: THERBAN [®] , ZETPOL [®]
+	very good mechanical properties; very good abrasion resistance, very good heat resistance	
+	very good ageing, weathering and ozone resistance	
+	very good oil/grease resistance and resistance to fuels; very good hot water/steam resistance	
-	poor resistance to aromatics and polar solvents	
-	poor electrical properties; flammable with formation of toxic flues gases	

Chloroprene rubber (CR)		Trade names: NEOPRENE [®] , BAYPRENE [®] , DENKA CHLOROPRENE [®]
+	good resistance to heat, ageing, weathering and ozone	
+	moderate resistance to oil; good mechanical properties and resilience	
+	not flammable (in own flame)	
-	depending on CR-type more or less stiffening, crystallization tendency at low temperatures	
-	poor resistance to fuels	

Chlorsulfonated polyethylene (CSM)		Trade name: HYPALON®
+	good resistance to ageing, weathering and ozone; low gas permeability	
+	good resistance to chemicals (especially to strongly oxidizing agents)	
-	poor low temperature properties	
-	poor resistance to fuels	

Polyacrylate rubber (ACM)		Trade names: HYCAR®, VAMAC®, CANACRYL®
+	very good resistance to ageing, weathering and ozone	
+	very good resistance to fuels, oils and greases	
+	good heat resistance	
-	poor low temperature flexibility and poor resistance to chemicals; poor hydrolysis resistance	
-	fair mechanical properties; low resilience	

Polyurethane rubber (PU)		Trade names: VULKOLLAN®, UREPAN®, ADIPRENE®, VIBRATHANE®
+	very good resistance to ageing, weathering and ozone	
+	very good abrasion resistance, high tensile strength	
+	low gas permeability	
-	water sensitive, especially at temperatures of more than 50° C	
-	poor compression set properties at elevated temperatures, flammable	

Silicone rubber (Q)		Trade names: SILOPREN®, SILASTIC®
+	excellent heat resistance and low temperature resistance; excellent resistance to weathering, ageing and ozone	
+	good electrical insulating properties; constant values of mechanical properties over a wide temperature range	
+	physiologically unobjectionable	
-	moderate mechanical properties; moderate resistance to oil; sensitive to hot water and steam	
-	poor resistance to fuels	

Fluorosilicone rubber (MFQ)	
+	very good heat and low temperature resistance; excellent resistance to weathering, ageing and ozone
+	good electrical insulating properties; constant values of mechanical properties over a wide temperature range
+	good resistance to oils and fuels
-	moderate mechanical properties
-	very high-priced material

Fluoro rubber (FPM)		Trade names: VITON®, FLUOREL®, TECNOFLON®, DAI-EL®
+	very good resistance to heat and low temperatures; excellent resistance to weathering, ageing and ozone	
+	very good resistance to chemicals; low gas permeability	
+	not flammable in own flame	
-	hot water and steam sensitive; sensitive to the effect of amines, organic acids and polar solvents	
-	poor low temperature flexibility	

FPM, FKM, Viton® - Properties

The Difference between FPM, FKM and Viton®

All of these designations actually stand for one single base material only – fluoro rubber. FPM is the international abbreviation according to DIN/ISO, whereas FKM is the short form for the fluoroelastomer category according to the American standard ASTM. Viton® is the registered trade mark of DuPont Dow Elastomers.

The Exceptional Strengths of FPM

FPM are materials based on fluoroelastomers. These materials offer one of the most highest resistances to heat and chemical media of all elastomers ever developed. They withstand hundreds of ordinary to most aggressive fluids over a wide temperature range. Additionally, they retain reliable and leakage free sealing force in situations where ordinary elastomers already have failed long before.

Fluoroelastomers do not come cheap. This is why they primarily were used only for small parts in environments where in contact with hot and corrosive fluids. Today, however, as a result of higher energy costs, stringent environmental regulations, extended warranties and increasing maintenance costs, many users have rethought and now consider FPM very well as a cost-effective material, especially when regarding complete lifetime of a product.

Temperature Resistance

Fluoropolymers in general feature excellent heat resistance. FPM retains its elastic properties even at a continuous operating temperature of 200° C. When talking about temperature resistance, it has to be considered over which period of time materials are exposed to heat or elevated temperatures. Figure 1 shows the relation between operating temperature and hours of use. Besides the ability to withstand short excursions of more than 300° C, laboratory tests have confirmed that products made of FPM still remained soft and elastic even after ageing in a heat cabinet over a period of three years at a temperature of 190° C. If you compare these values with the performance of other elastomers they seem even more significant. Nitrile rubber (NBR), for example, continuously and usefully serves only up to a maximum temperature of 120° C. Similar in temperature performance are the materials chloroprene (CR) and chlorosulfonated polyethylene. Aged at a temperature of 200° C, products made of these materials would embrittle only after a few hours.

Fig 1: Temperature resistance of FPM in air

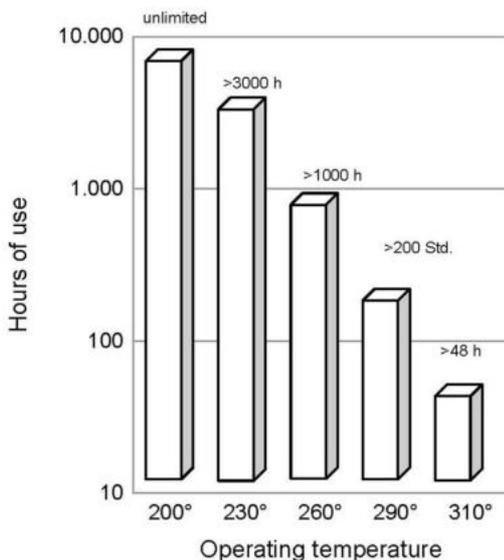
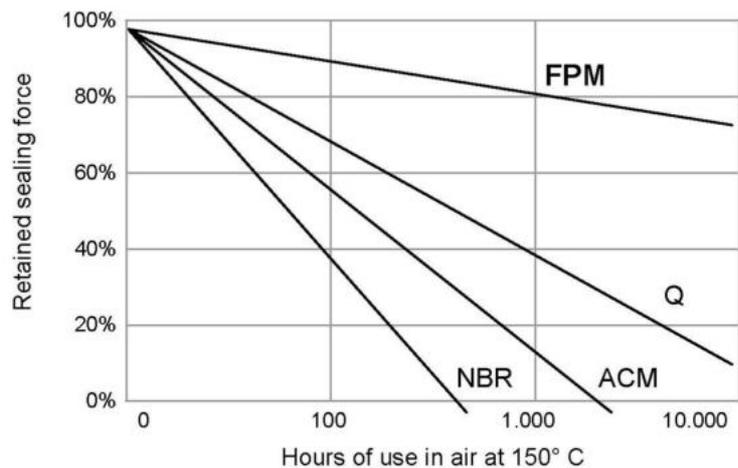


Fig 2: Long-term sealing force of FPM in comparison with other elastomers

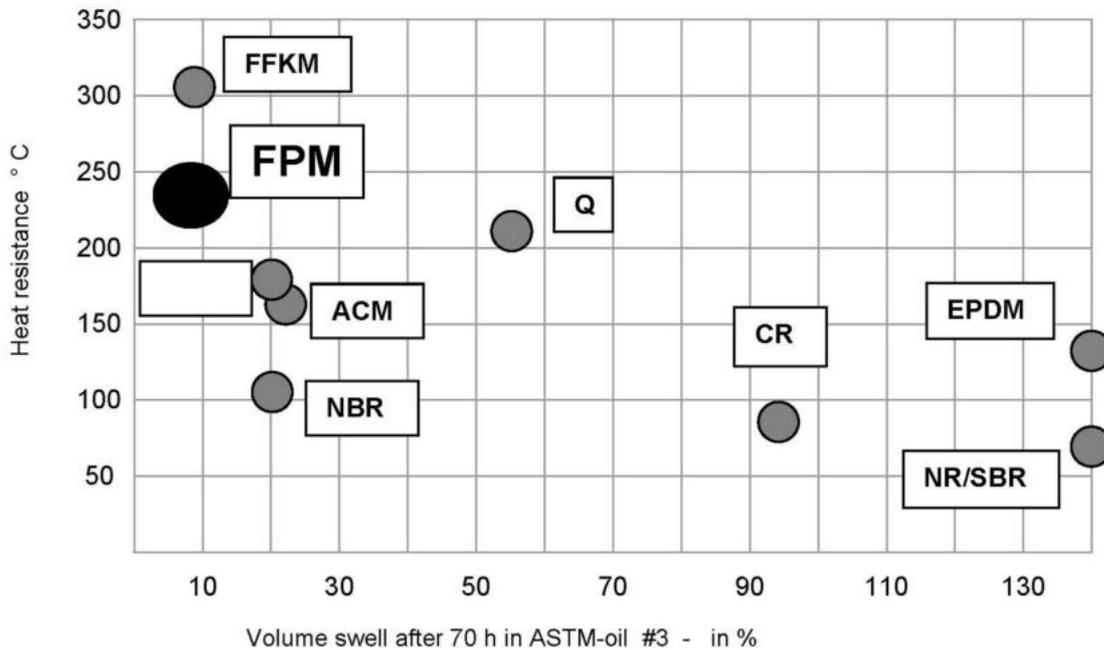


Swell Resistance

The excellent swell behaviour of fluoroelastomers has already been tested in a number of important media, for example: mineral oils,

fuels, acids, bases, solvents and numerous chemicals. In sealing technology, in particular in engine construction and hydraulics, oil resistance combined with exposure to heat, plays a fundamental role. All other commercially processed elastomers neither achieve the thermal stability of FPM nor feature the same low volume swell characteristics. This outstanding resistance to swell combined with exposure to heat makes FPM the most universal sealing material of all commercial elastomers - see figure 3.

Fig 3 - Heat- and oil resistance of FPM in comparison with other elastomers



Long-Term Retention of Sealing Force

Resistance to compression set is another very important physical property in sealing technology. The lower the compression set values the better the sealing force and ability to recover from applied deformation. In combination with exposure to high temperatures, FPM even more shows its superior compression set properties. Without any problems values of 8% at 200° C can be achieved.

FPM also is unbeatable, when regarding sealing force over a longer period of time. All other common elastomers fail long before (figure 2). These characteristics then are of special importance when designing long-life, high-quality machines, where absolute product reliability is demanded, when high guarantees are required or when the risks of causing environmental damage due to seal failure or leakage get uncalculable.

Low Temperature Resistance

Experience has shown that sealings made of FPM in dynamic applications usefully serve at temperatures down to approx. -20° C. In case of static use they even can work at temperatures down to -40° C. Furthermore, experience has shown that the more thin-walled parts are, the lower is the operating temperature they can work at. Same effect when the sealing is continuously in contact with media that slightly causes swell. This appearance of swell improves the low temperature flexibility and allows use at even lower temperatures.

Flame Retardance

FPM is based upon fluorocarbon elastomers. The chemical bond of fluorine to carbon is extremely strong. Thus, under conditions of fire, its resistance to breaking and damage exceeds that of all other hydrocarbon elastomers.

Use in Vacuum

FPM contains no plasticizers and thus exhibits very low outgassing in use under extreme vacuum conditions. Loss of weight of only 2-3 % in vacuum applications is typical for this material. Therefore FPM is the ideally suited material for sealings requiring ultimate pureness, lowest outgassing rates and minimal volume changes in extreme vacuums.

Weathering and Ozone Resistance

The combination of atmospheric oxygen with sunlight and ozone (weathering) is a very aggressive and corrosive effect. But also in this respect FPM offers best resistance. As a matter of fact, even after 20 years of exposure to direct sunlight no cracking or splitting was observed. But also direct exposure to ozone has no effect on FPM. For example, after 300 hours of continuous ageing at a temperature of 60° C in an environment containing 150 ppm ozone no cracks could be observed. For comparison, parts produced from natural rubber would end up with cracked and splitted surfaces and get useless after just 10 minutes under same conditions. The extremely good weathering and ozone resistance of FPM also is shown in the fact that UV-radiation does not have any effect on colored parts made of FPM.

Gas Permeability

Products made of FPM have very low gas permeability.
FFKM=perfluoroelastomer

Tolerances for molded parts - rubber

acc. to ISO 3302-1

nominal dimension (mm)	tolerance class M1		tolerance class M2		tolerance class M3		tolerance class M4	
	mold- dependant dimensions	dimensions with overflow	mold- dependant dimensions	dimensions with overflow	mold- dependant dimensions	dimensions with overflow	mold- dependant dimensions	dimensions with overflow
			tolerances - in mm :		tolerances - in mm :		tolerances - in mm :	
		tolerances - in % :		tolerances - in % :		tolerances - in % :		

Tolerances for profiles and hoses (without reinforcement) - rubber

acc. to ISO 3302-1

nominal dimension	tolerance class E1	tolerance class E2	tolerance class E3
	tolerances - in mm :		tolerances - in mm :
	± 0,15	± 0,25	± 0,40
	± 0,20	± 0,35	± 0,50
	± 0,25	± 0,40	± 0,70
	± 0,35	± 0,50	± 0,80
	± 0,40	± 0,70	± 1,00
	± 0,50	± 0,80	± 1,30
	± 0,70	± 1,00	± 1,60
	± 0,80	± 1,30	± 2,00
	by agreement	± 1,60	
	by agreement	± 2,00	

Tolerances for sheets, cut-to-size parts, die-cut parts

acc. to DIN 7715 part 5

nominal dimension	tolerance class P1	tolerance class P1	tolerance class P3
	tolerances - in mm		tolerances - in mm
	± 0,20	± 0,20	± 0,40
	± 0,20	± 0,30	± 0,40
	± 0,20	± 0,40	± 0,50
	± 0,30	± 0,50	± 0,60
	± 0,30	± 0,60	± 0,80
	± 0,40	± 0,80	± 1,00
	± 0,50	± 1,00	± 1,50
	± 0,60	± 1,20	± 2,00
	± 0,80	± 1,40	± 2,50
	± 1,00	± 1,60	± 3,00
	± 1,60	± 2,50	± 5,00
tolerances - in %:		tolerances - in %:	tolerances - in %:
	± 0,50	± 0,80	± 1,50

All tech data presented without guarantee - no liability for correctness, actuality and completeness

Tolerances for cord rings and extruded vulcanized rings

acc. to ISO 3302-1

nominal dimension (mm)	tolerances as to cord thickness	tolerances as to length and inner-Ø	
	tolerance class E2	+/- 0,8%	
	tolerances – in mm		
	± 0,25		
	± 0,35		
	± 0,40		
	± 0,50		
	± 0,70		
	± 0,80		
	± 1,00		
	± 1,30		
	± 1,60		
	± 2,00		

Tolerances for sponge rubber

acc. to ISO 3302-1

nominal dimension (mm)	tolerance class E1	tolerance class E2	tolerance class E3
	tolerances – in mm		
	± 0,15	± 0,25	± 0,40
	± 0,20	± 0,35	± 0,50
	± 0,25	± 0,40	± 0,70
	± 0,35	± 0,50	± 0,80
	± 0,40	± 0,70	± 1,00
	± 0,50	± 0,80	± 1,30
	± 0,70	± 1,00	± 1,60
	± 0,80	± 1,30	± 2,00
	by agreement	± 1,60	
	by agreement	± 2,00	

Tolerances for cut-to-length extrusions

acc. to ISO 3302-1

nominal dimension (mm)	tolerance class L1	tolerance class L2	tolerance class L3
	tolerances – in mm		
	± 0,70	± 1,00	± 1,60
	± 0,80	± 1,30	± 2,00
	± 1,00	± 1,60	± 2,50
	± 1,30	± 2,00	± 3,20
	± 1,60	± 2,50	± 4,00
	± 2,00	± 3,20	± 5,00
	± 2,50	± 4,00	± 6,30
	± 3,20	± 5,00	± 10,00
	± 4,00	± 6,30	± 12,50
	± 5,00	± 10,00	± 16,00
	± 6,30	± 12,50	± 20,00
	tolerances – in mm	tolerances – in mm	tolerances – in mm
	± 0,16	± 0,32	± 0,50

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Catalog

Profiles · Semi-Finished Products · Rubber Matting, Sheets
Molded Parts



Catalog

Plastic Parts



Catalog

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