



SOLUTION ANTIVIBRATION DAMPING

Rubber to metal & Steel spring

ELASTOPLOTS® 





Technical

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RUBBER TO METAL

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CEF POLYMERES is a major supplier of a diverse range of engineered rubber and bonded metal/rubber products for the vehicle, mining, rail, construction and industrial markets.

Our products are exported worldwide. technologies and skills, breadth and depth of expertise, advanced rubber development expertise, and a variety of manufacturing processes.

Elements of an Isolation System

In discussing vibration protection, there are three basic elements to be considered:

1. An element which creates or transmits vibrational energy.
2. An element which must be protected, or "isolated" from that energy.
3. A third element, interposed between the first two, which provides the necessary vibration isolation between them.

Vibration is usually transmitted between equipment (machinery, components, etc.) and support structures (floors, brackets, baseplates, foundations, etc.).

Vibrational energy can be transmitted from equipment to support structures or vice-versa. In some instances, a clear cut distinction cannot be made between the element creating or transmitting vibrational energy and the element which must be isolated from that energy. This is the case with connections or linkages between moving parts where the need for isolation is necessary to prevent fatigue in the linkage rather than to protect either of the moving parts it connects.



Many situations involve several interrelated elements. In the case of a large punch press located near a precision grinder, for instance, the punch press creates the energy, which is transmitted to the floor and then to the grinder. The floor must be isolated from the press in order to sustain the impact force .without special foundations, and the grinder must be isolated from the floor to maintain the necessary high machining tolerances.

In either case, an isolator serves basically the same function to reduce the magnitude of the vibrational forces transmitted from one element to another.





REDUCED COSTS OF SUPPORTING STRUCTURES

The vibration isolation provided by CEF eliminates the need for special foundations in a large number of instances, enabling the modest price of NIVELASTIC to be substituted for the costly and often prohibitive expense of concrete.

REDUCED INSTALLATION COSTS

CEF mounts need not be bolted to the support structure or floor beneath a machine. These isolators require no holes to drill and fill, no grouting, no glue to smear, no shimming and no cleanup. Compared to bolted foundations, these mounting Systems have provided up to 90% savings.

DECREASED MAINTENANCE COSTS

When vibrating equipment is rigidly bolted to the floor, internal stresses may be amplified. We reduce these stresses and help prevent misalignment of machine frames and undue wear on bearings or related parts. Continued maintenance labor costs are reduced and replacement of worn parts is reduced.

IMPROVED PRODUCTION EFFICIENCY

Production machinery operates more efficiently when isolated from vibration. Higher machine output and quality are possible at higher operating speeds without disruption from neighboring equipment.

CHOICE & AVAILABILITY OF SOLUTION

With CEF mounts, you do not have to "settle" for a solution. Our complete range of types and sizes insures that you can find a CEF mounts suited specifically to your needs. Stocking distributors in principal cities throughout the country assure no lost time or effort.



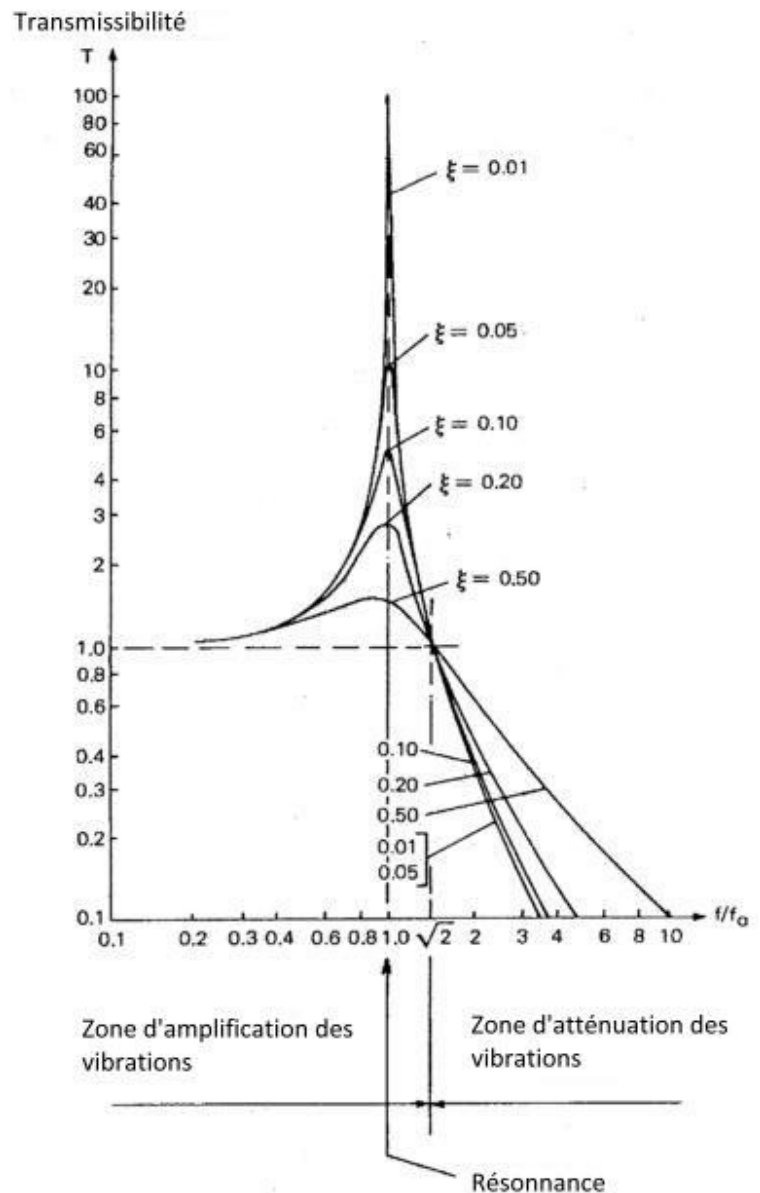
MAXIMUM UTILISATION OF EQUIPMENT

The relative mobility of equipment mounted on CEF mounts offers flexibility in terms of being able to use machines where they are most needed at any particular time. When production priorities are shifted from one area to another, machines can quickly and inexpensively be relocated as necessary. Since no special foundations or lagging are required, a machine on CEF mounts is simply picked up, moved, put down, leveled and can be operated once the power is reconnected. The "portability" of many machines on our product also saves the expense of renting or purchasing machinery for short term needs.

A spring suspended from a ceiling, if stretched downward and released, would continuously vibrate up and down at a fixed number of oscillations per unit time if the spring could vibrate freely and were a perfectly resilient material. This number of oscillations per unit time is known as natural frequency. In a practical sense, however, no real material is perfectly resilient. All isolators exhibit some degree of non-resilience known as damping. If the spring suspended from the ceiling were critically damped, it would not oscillate after being stretched and released, but would rather return to the original unstretched position without overshoot. Such a spring would obviously provide much less isolation than one which was lightly damped and could oscillate more freely.

In addition to the natural frequency and damping characteristics of the isolator, the forcing frequency of the vibrational energy input is the third factor affecting isolation efficiency.

By definition, vibrational energy is oscillatory in nature and is usually input at a characteristic rate per unit time. This rate is known as forcing frequency. In the case of steadily rotating or reciprocating devices such as a ventilating fan, the forcing frequency will be the rpm. [usually expressed in cycles per second (called Hertz or Hz) as rpm divided by 60] . In the case of impacting devices such as punch presses, however, the disturbing frequency is influenced not only by the speed of the press, but also by complex relationships involving the reaction of the material being formed by the impact forces of the press. In such cases, either the forcing frequency must be measured, or the isolators for the press selected by experts on the basis of previous experience. The interrelationships between natural frequency (denoted f_n), forcing frequency (denoted f_d), damping (denoted C), critical damping (denoted C_c), and isolation efficiency are shown on Figures 1 and 2. Figure 1 shows a typical plot of isolation efficiency as a function of f_d/f_n . Note that when this ratio of frequencies is greater than 1.414, isolation efficiency is positive and isolation occurs. When f_d/f_n is less than 1.414 on the other hand, the isolation efficiency is less than zero and the isolator actually magnifies, rather than reduces, the input force. This amplification is maximized when $f_d = f_n$, a condition known as resonance.



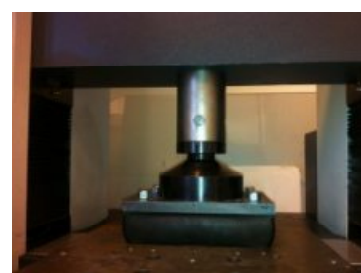
Low damping elastomer	NR 145/155
Medium damping elastomer	CR NBR
High damping elastomer	VMQ HDS

Elastomer	Natural rubber	Chloroprène	Acrylonitrile-butadiène	Silicone	Ethylène propylène	Polyurethane
Internatinal mark DIN ISO 1629	NR	CR	NBR	VMQ	EPDM	PUR / AU
Codification CEF polymeres	1XX	2XX	3XX	4XX	5XX	Serie R
Hardness DIN 53505 (Sh A)	40 ... 80	45 ... 70	45 ... 90	35/45/55/65	45 ... 80	40...99
Tensile strength in the most favorable hardness range DIN 53504 (N/mm ²)	25	2	2	8	18	3
Elongation at break for Hardness range DIN 53504 (%)	8	35	35	45	35	8
Stastic mechanical propertie	Excellent	Very good	Medium	Low	Good	Excellent
Dynamic mechanical propertie	Excellent	Very good	Medium	A voir	Medium	Good
Operating temperature (°C) continue	-40 ... +70°	-30...+80°	-25 ...+125°	-60° +220°	-60° +150°	-40° +100°
Resistance to creeping	Excellent	Good	Good	Medium	Medium	Good
Resistance to aging	Moderate	Very good	Good	Good	Very good	Very good
Compression stress	Very good	Good	Good	Low	Low	Very good
Cold resistance	Good	Good	Moderate	Very good	Low	Very good
Abrasion resistance	Moderate	Low	Low	Low	Low	Very good
Wear resistance	Moderate	Very good	Low	Excellent	Very good	Excellent
Electric isolation	Contact us					
Bonding resistance	Excellent	Very good	Very good	Low	Low	Good
Water	B	A	A	B	A	B
Sea water	B	A	A	B	A	ether
Bleach water dilute	B	C	C	B	A	C
Diluted citric acid	C	C	C	C	C	C
Mineral oil	C	B	A	B	C	A
Fuel	B	C	A	C	B	B
Chlorinated solvent	D	C	D	D	D	D
Ketones	D	D	C	D	B	B
Urea	B	A	A	A	A	C
Gas oil	C	B	A	B	C	A
Grease	C	B	A	B	C	A
Chlore	C	C	C	C	B	C
Ammoniac liquid	C	A	A	C	A	C

Tests norms:

DIN 53505 Test Hardness - DIN 53509 ozon - DIN 53504 traction - DIN 53516 abrasion
DIN 53547 55537 Creep - DIN 53507 résistance tear resistance

ISO 7716 maintenance storage



This table give a simple a quick approach of vibration isolation in fonction of rubber deflection and exciting frequency

AMPLICICATION AREA
 ISOLATION AREA % OPTAINS

Exciting vibration tr/Min	Exciting vibration Hz	Deflection mm under load																			
		Natural frequency Hz																			
		0,5	1	2	3	4	5	6	8	10	12	15	20	25	30	35	40	60	80	100	
		22 Hz	16 Hz	12 Hz	10 Hz	8 Hz	7 Hz	6.5 Hz	5.6 Hz	5 Hz	4.6 Hz	4.3 Hz	3.6 Hz	3.2 Hz	2.9 Hz	2.7 Hz	2.5 Hz	2 Hz	1,8 Hz	1,6 Hz	
60	1	[Red]																			
180	3	[Red]																	43%	60%	
300	5	[Red]													48%	58%	69%	80%	84%	88%	
480	8	[Red]										50%	58%	74%	80%	84%	86%	88%	92%	94%	95%
600	10	[Red]							53%	66%	72%	76%	84%	88%	90%	91%	92%	95%	96%	97%	
900	15	[Red]				59%	71%	76%	83%	86%	89%	90%	93%	94%	95%	96%		97%	98%		
1500	25	[Red]	[Red]	69%	80%	88%	90%	92%	94%	95%	96%		97%	98%			99%				
1800	30	[Red]	59%	80%	86%	91%	93%	94%	95%	96%	97%		98%				99%				
3000	50	75%	88%	93%	95%	96%	97%		98%			99%									
4500	75	90%	94%	96%	97%	98%			99%												
6000	100	94%	96%	98%			99%														
9000	150	97%	98%		99%																
12000	200	98%			99%																

Natural frequency dynamic

In case of dynamic stress the hardness influence the stiffness. More the rubber is hard (hardness shore A) more the natural frequency change and becoming higher

Hardness Sh A	35	40	45	50	55	60	65	70	75
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Ratio Dynamic/Static	1.0	1.1	1.1	1.2	1.3	1.4	1.5	1.7	1.8
----------------------	-----	-----	-----	-----	-----	-----	-----	-----	-----

Isolation D

$V_{err} \text{ min}^{-1}$

$V_e \text{ min}^{-1}$

$$D = 20 \lg \left[\left(\frac{V_{err}}{V_e} \right)^2 - 1 \right]$$

Natural frequency f_e

Hz

Stiffness know

C in N/mm

$$f_e = \frac{1}{2 \cdot \pi} \cdot \sqrt{\frac{c}{m} \cdot 1000}$$

Natural frequency f_e

Hz

Stroke know

S_{subA} in cm

$$f_e = \frac{5}{\sqrt{S_{subA}}}$$

Natural frequency V_e

tr/mm

Stroke know

S_{subA} in cm

$$V_e = \frac{300}{\sqrt{S_{subA}}}$$

Degres isolation V_{err}

Hz

V_{err} in min^{-1}

$$V_{err} = V_e \cdot \sqrt{\frac{1-\eta}{2-\eta}}$$

Degré d'isolation η

V_{err} in min^{-1}

V_e Ferr in N

$$\eta = 1 - \frac{1}{\left(\frac{V_{err}}{V_e} \right)^2 - 1}$$

Force transmise F_u

En N

Ferr en N

V_{err} en min^{-1}

$$F_u = \frac{F_{err}}{\left(\frac{V_{err}}{V_e} \right)^2 - 1}$$

Amplitude S_o

m

Ferr in N

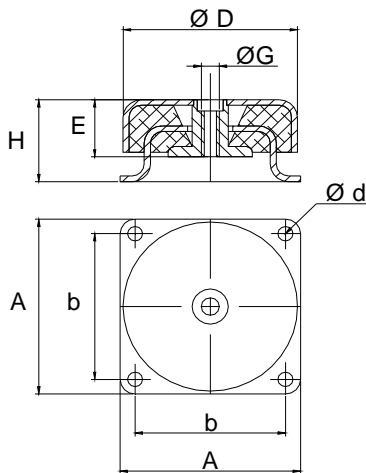
C in N/m

m in kg

W in s^{-1}

$$S_o = \frac{F_{err}}{c - m \cdot \omega^2}$$

ALL ATTITUDE MOUNT



Materials Elastomer chloroprene CR double sertie avec armature et coupelle en acier zingué

Variant Elastomer VMQ with high damping value HDS

Stiffness Ratio Axiale / Radiale 1:1

Hardness 45/55/65/70/80 Sh A +-5

Bolt Without

Fail-safe

Vibration isolation

Shock damping

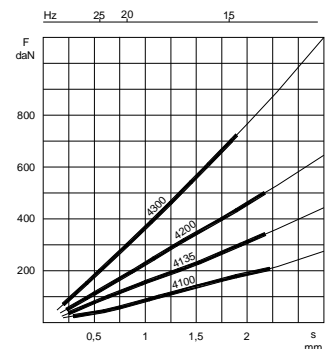
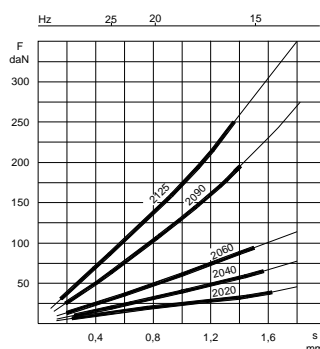
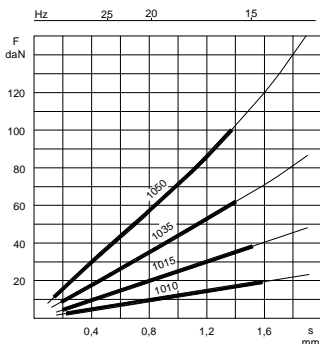
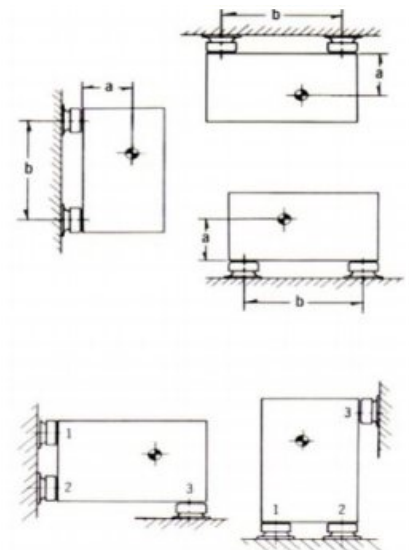
Oil Grease Ozone resistance...

Construction-borne noise isolation

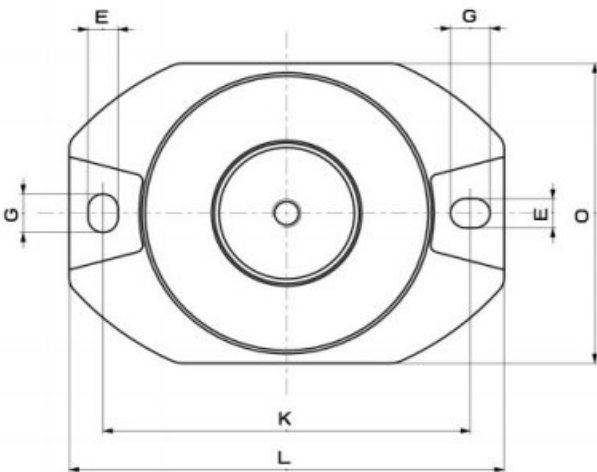
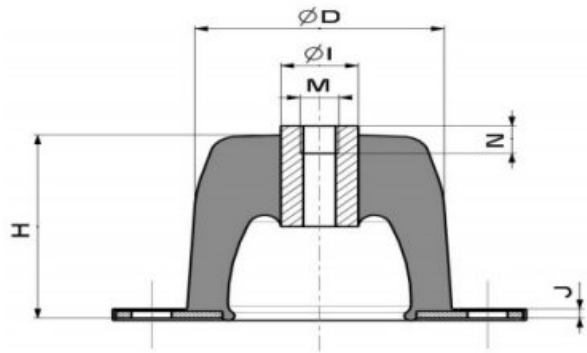
Vehicle off road application

Applications Vehicular electronics Motor Pump
Racking system Fan Shipboard equipment

Reference	D	H	E	A	b	d	G	Weight kg	Load Max kg Vehicle off-road Shock	Load Max kg Vibration
C 1010									20	25
C 1015									40	50
C 1035	58	28	20	60	49,5	5,2	M6 (M8)	0,2	60	85
C 1050									100	150
C 2020									40	50
C 2040									60	75
C 2060	76	38	30	76	63,5	6,4	M10 (M12)	0,45	100	120
C 2090									200	275
C 2125									250	400
C 4100									200	290
C 4135	124	63	19	133	108	11,9	M16	1,8	320	420
C 4200									500	625
C 4300									700	1100



ISOLATOR LOW LOAD



Materials	Elastomer NR bonding on steel base and upper nut
Hardness	50 / 60 / 70Sh A +/-3 sh A
Temperature	-30c° - +80C°
Natural frequency vertical	9 - 7 Hz
Natural frequency horizontal	5,5 - 3,5 Hz

Fail-safe	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Precision leveling	No possible
Isolation	Active & passive
Shock damping	Mot recommended

Reference	Load Mini kg	Load Max kg	Reference	Load Mini kg	Load Max kg
EPCD 1 - 150	1	4	EPCD 2 - 150	5	20
EPCD 1 - 160	2	7	EPCD 2 - 160	10	30
EPCD 1 - 170	3	12	EPCD 2 - 170	20	50

typ	D	H	N	M	I	K	L	O	ExG	J
EPCD1 - XXX	40	40	6	M6	12	50	64	44	6.2*6.2	2,5
EPCD2 - XXX	60	40	6	M6	32	76	64	64	6.2*8.2	2,5

ISOLATOR WITH BOTTOM PLATE

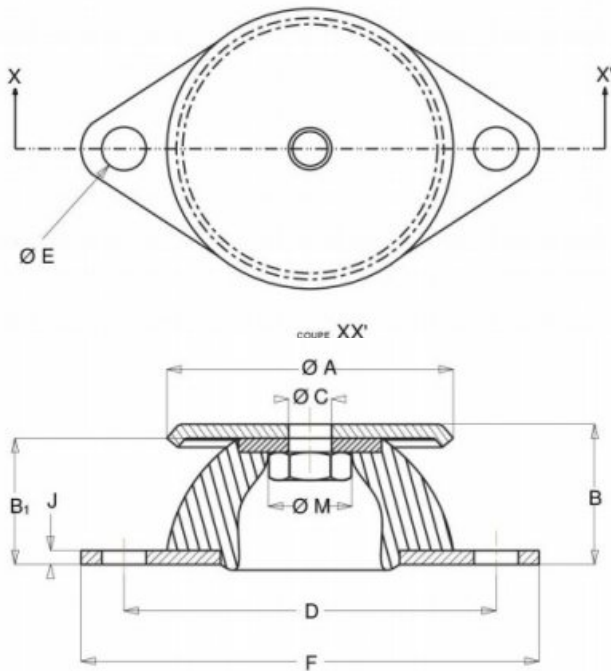


Materials Rubber NR ring bonded to a top and bottom fixing plate
 Additional cover plate for rubber protection and mass distribution
 Anti-slip

Hardness 45 / 60 / 75 Sh A +/- 5 sh A

Natural frequency 16 - 8,5 Hz

Fail-safe	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vehicule off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>



Reference	Load Mini kg	Load Max kg	Deflection load max mm
BCA 40 - 145	2	5	2,5
BCA 40 - 160	3	10	2,5
BCA 60 - 145	3	15	3,2
BCA 60 - 160	6	25	3,2
BCA 60 - 175	10	50	3,5
BCA 80 - 145	10	40	4,5
BCA 80 - 160	20	80	4,5
BCA 80 - 175	30	120	4,5
BCA 100 - 145	20	90	4,5
BCA 100 - 160	40	160	4,5
BCA 100 - 175	50	220	5,5
BCA 150 - 145	50	140	7,5
BCA 150 - 160	80	260	7,5
BCA 150 - 175	100	360	6,5
BCA 200 - 145	135	500	7,5
BCA 200 - 160	220	830	7,5
BCA 200 - 175	320	1250	6,5

typ	A	B	B1	C	D	E	F	M	J
BCA 40 - XX	40	20	18	M6	52	6,2	64	19	2
BCA 60 - XX	60	24	22,5	M6	76	6,2	90	18	3
BCA 80 - XX	80	27	25	M8	100	8,2	120	22	3
BCA 100 - XX	100	28	28	M10	124	10,2	148	22	3
BCA 150 - XX	150	41	38	M14	182	12,2	214	36	4
BCA 200 - XX	200	44	40	M18	240	14,5	280	48	5

Curves load/deflection on request

ISOLATOR HIGH DEFLECTION



Materials	Elastomer NR bonded to bottom plate and metal ring with threaded hole
Hardness	40 / 60 Sh A +-5
Natural frequency	15 - 8 Hz

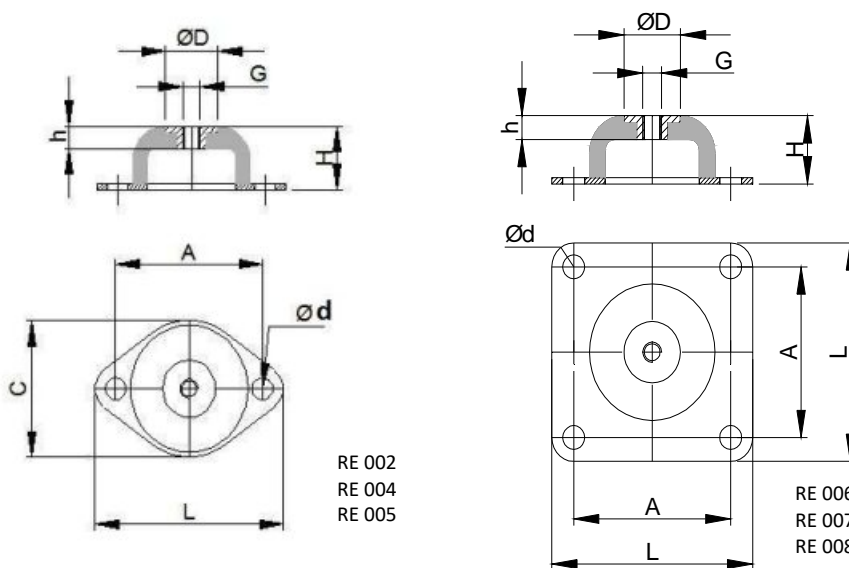
Fail-safe	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

For ordering

typ + raw material code
Exemple **RE004 – 160**

Applications

- Electric motor
- Climatisations
- Testing Measuring
- Medical equipment
- Fan
- Vibrator
- Etc...



typ	A	C	L	H	h	D	d	G	Load Max kg		Deflection mm	
									Hardness		Load Max Hardness	
									40 Sh A	60 Sh A	40 Sh A	60 Sh A
									140	160	140	160
RE 002	66	56	85	25	11	33	8	M8	20	50	4,5	3,6
RE 004	110	96	136	40	15	53	11.5	M10	70	150	10	8,5
RE 005	124	101	151	45	13	58	11.5	M10	130	220	9	7
RE 006	120		150	63	18	78	14.5	M12	280	500	13,8	13
RE 007	160		200	85	25	100	14.5	M16	380	750	18	15
RE 008	250		310	160	43	186	18	M24	1400	2500	50	42

ENGINES MOUNTS



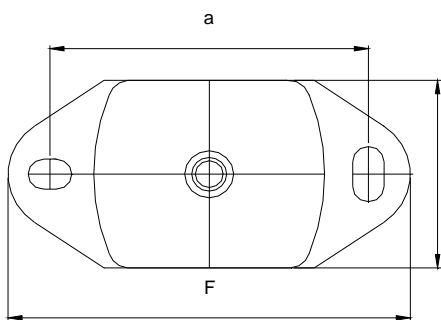
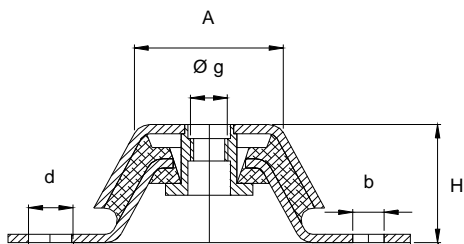
Materials Steel cup protect NR rubber with progressive stiffness
Differents stiffness in 3 axis X-Y-Z
High longitudinal stability
Integrate anti-rebound washer

Natural frequency 08 - 15 Hz

Hardness 45 / 55 / 65 Sh A +-5

Bolt Additionnal

- Fail-safe
- Vibration isolation
- Shock damping
- Oil Grease Ozone resistance...
- Construction-borne noise isolation
- Vehicle off road application

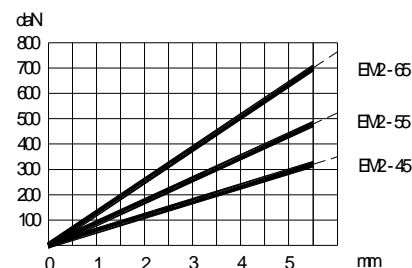
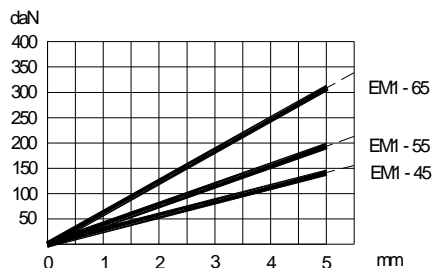
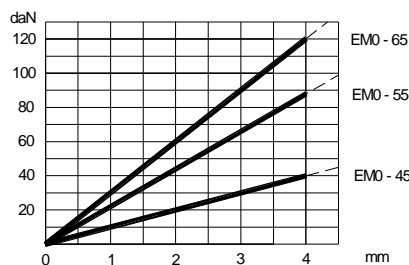


Applications Engines
Marine engines
Pumps
Compressors

VARIANTE Stainless steel 304L
Hardness 75/80/85 Sh A

OPTION Leveling bolt
E

For ordering
typ + fixing + raw material code
Exemple **EM 0 M12 – 160**



typ	A	g	H	a	E	F	d	b
EM 0	60	M12	38	100	60	120	11x14	11x14
EM 1	75	M16	50	140	75	183	20x13	13x30
EM 2	80	M20	70	182	112	230	25x18	18x33

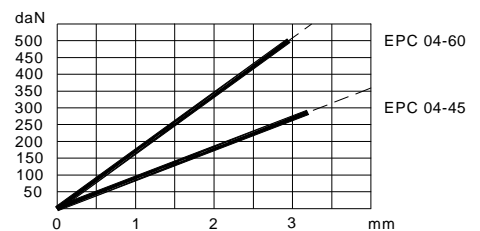
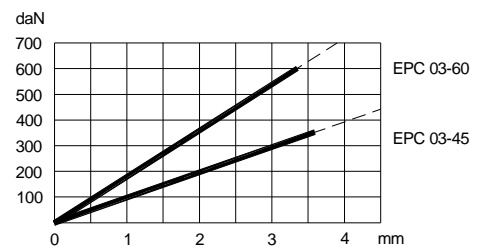
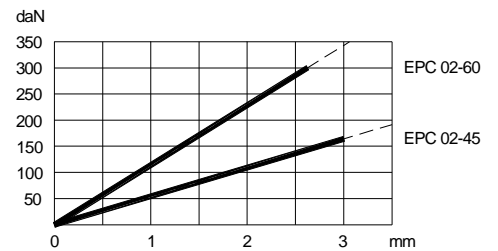
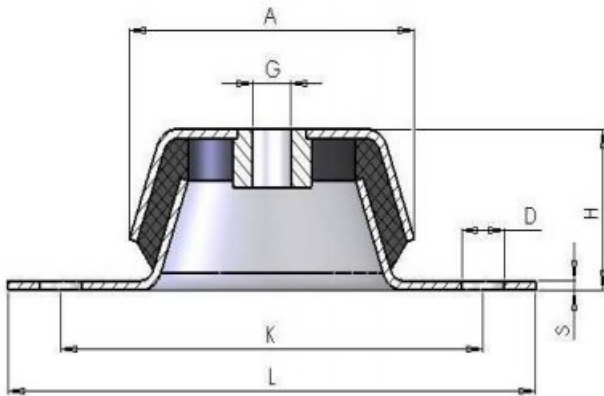
typ	Load Max. daN			Deflection sous Load mm		
	45 Sh A	55 Sh A	65 Sh A	45 Sh A	55 Sh A	65 Sh A
EM 0	145	160	170	4,0	4,0	4,0
EM 1	145	190	305	5,0	5,0	5,0
EM 2	350	500	700	6,0	5,6	5,5

For marine engine decrease load capacity of 20%

ISOLATOR STEEL CUP PROTECTION



Materials	Elastomer NR bonded on steel cup with bottom flange
Natural frequency	10 - 20 Hz
Hardness	45 / 60 / 70Sh A +-5
Tolérance	DIN 7715 M3
Bolt	Additional
Fail-safe	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

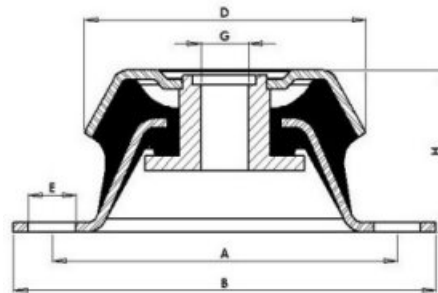


Reference	A	H	S	K	L	D	G	Load Max kg
EPC 02-145	62	30	2	85	105	8.2	M12 (M10)	150
EPC 02-160	62	30	2	85	105	8.2	M12 (M10)	230
EPC 03-145	90	45	2.5	117	151	10.2	M12	250
EPC 03-160	90	45	2.5	117	151	10.2	M12	350
EPC 04-145	115	45	3	160	205	16.2	M16 (M24)	280
EPC 04-160	115	45	3	160	205	16.2	M16 (M24)	600

ISOLATOR STEEL CUP PROTECTION FAIL-SAFE



Materials	Elastomer NR bonded on steel cup with bottom flange Integrate anti-rebound washer Fail-safe
Natural frequency	10 - 20 Hz
Hardness	45 / 60 / 75 Sh A +5
Tolerance	DIN 7715 M3
Bolt	No
Fail-safe	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>

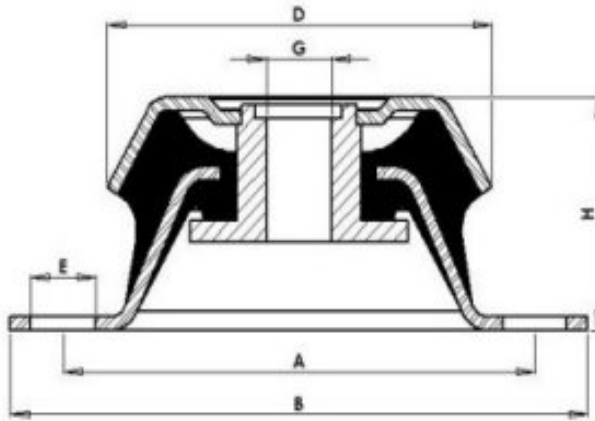


typ	D	H	S	B	A	E	G
EPCR 8335 M10-XX	83	35	3	130	108	9	M10
EPCR 8335 M12-XX	83	35	3	130	108	9	M12
EPCR 10641 M12-XX	106	41	3,5	170	137	12.5	M12
EPCR 10641 M16-XX	106	41	3,5	170	137	12.5	M16

For ordering ex EPCR 8335 M12-145

Reference	Load Max. daN	Deflection mm	Stiffness daN/mm	Reference	Load Max. daN	Deflection mm	Stiffness daN/mm	Reference	Load Max. daN	Deflection mm	Stiffness daN/mm
EPCR 8335 -145	110	4,5	24,44	EPCR 8335 -160	180	4,3	41,80	EPCR 8335 -175	280	4,3	65,10
EPCR 10641 -145	200	5	40	EPCR 10641 -160	400	5,6	71,50	EPCR 10641 -175	580	5	116

ISOLATOR STEEL CUP PROTECTION FAIL-SAFE



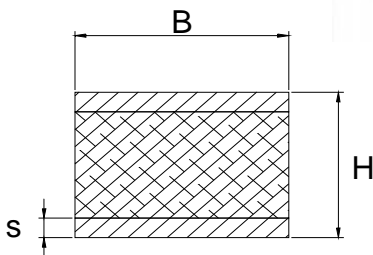
typ	D	H	S	B	A	E	G
EPCR 8335 M10-XX	83	35	3	135	108	11.5x15	M10
EPCR 8335 M12-XX	83	35	3	135	108	11.5x15	M12
EPCR 9245 M12-XX	92	42	3	150	123.5	10x15	M12
EPCR 10641 M12-XX	106	42	3,5	175	143	13x19	M12
EPCR 12548 M16-XX	125	48	3,5	192	156	14.5x20	M16
EPCR 15054 M16-XX	150	54	3,5	218	182	14x18	M16

Reference	Load Max. daN	Deflection mm	Stiffness-moyenne daN/mm	Reference	Load Max. daN	Deflection mm	Stiffness-moyenne daN/mm	Reference	Load Max. daN	Deflection mm	Stiffness-moyenne daN/mm
EPCR 8335 -140	80	4	20	EPCR 8335 -160	200	3,7	38	EPCR 8335 -175	280	4,3	65,10
EPCR 9245 -140	220	3,5	63	EPCR 9245 -160	350	3,5	100	EPCR 9245 -175	510	3,6	141,67
EPCR 10641 -140	380	5	76	EPCR 10641 -160	480	5	96	EPCR 10641 -175	580	5	116
EPCR 12548 -140	500	5	100	EPCR 12548 -160	840	5	168	EPCR 10641 -175	980	5	196
EPCR 15054 -140	600	6	100	EPCR 15054-160	900	7	129	EPCR 15054 -175	1400	6	250



typ	D	H	S	B	A	E	G
EPCR 15554 M20-XX	150	54	3	170x170	132	14x18	M20
EPCR 18086 M20-XX	180	86	3	190x190	150	18.5x21	M20
EPCR 220105M20-XX	220	105	3	220x220	170	17.5x20	M20

Reference	Load Max. daN	Deflection mm	Stiffness-moyenne daN/mm	Reference	Load Max. daN	Deflection mm	Stiffness-moyenne daN/mm
EPCR 15554 M20-140	600	6	100	EPCR 15554 M20-160	7	3,7	129
EPCR 18086 M20-140	800	10	80	EPCR 18086 M20-160	1700	9	189
EPCR 220105M20-140	1700	113	76	EPCR 220105M20-160	3200	15	213



Materials Elastomer NR bonding on 2 steel plate
Lenght lg 2000 mm
Option NBR CR

Hardness 55 Sh A +-5 option 45 / 65 Sh A

Tolérance DIN 7715 M3

Mounting Machining steel plate

Fail-safe

Vibration isolation

Shock damping

Oil Grease Ozone resistance...

Construction-borne noise isolation

Vehicle off road application

Features

Multiple combinations allowing to adapt the length according to the distribution of the loads on the supports

High load capacity

Axial and radial stiffness > transverse stiffness

Custom machining - Tapping in reinforcement - Cutting - Cutting of elastomer

The applicable load varies according to the length, it is preferable to consult us

Reference	Dimensions		
	B	H	S
ER 2525 TA	25	25	5
ER 2530 TA	25	30	5
ER 3030 TA	30	30	5
ER 4020 TA	40	20	5 ou 10
ER 4030 TA	40	30	5 ou 10
ER 4040 TA	40	40	5 ou 10
ER 5030 TA	50	30	5 ou 10
ER 5040 TA	50	40	5 ou 10
ER 5050 TA	50	50	5 ou 10
ER 5070 TA	50	70	5 ou 10
ER 6030 TA	60	30	5 ou 10
ER 6040 TA	60	40	5 ou 10
ER 6060 TA	60	60	5 ou 10
ER 6080 TA	60	80	5 ou 10
ER 7040 TA	70	40	5 ou 10
ER 7050 TA	70	50	5 ou 10

Reference	Dimensions		
	B	H	S
ER 7060 TA	70	60	5 ou 10
ER 8045 TA	80	45	5 ou 10
ER 8060 TA	80	60	5 ou 10
ER 8070 TA	80	70	5 ou 10
ER 10050 TA	100	50	10 ou 15
ER 10060 TA	100	60	10 ou 15
ER 10070TA	100	70	10 ou 15
ER 10080 TA	100	80	10 ou 15
ER 100100 TA	100	100	10 ou 15
ER 12050 TA	120	50	10 ou 15
ER 12060 TA	120	60	10 ou 15
ER 12080 TA	120	80	10 ou 15
ER 15060 TA	150	60	10 ou 15
ER 15080 TA	150	80	10 ou 15
ER 150100 TA	150	100	10 ou 15
ER 200100 TA	200	100	10 ou 15

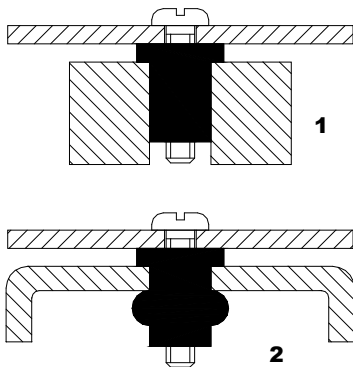
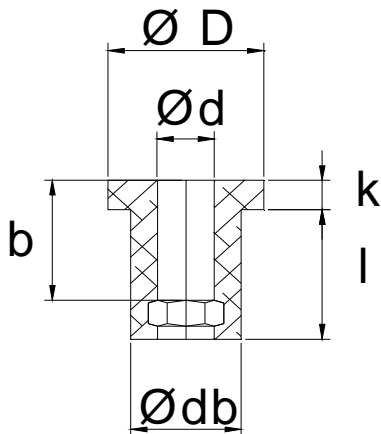
NO NOISE FIXING



Materials	Rubber NBR 370 Nut bonding
Hardness	70 Sh A +-5
Natural frequency	> 50 Hz

Fail-safe	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Applications	Steel metal protection covers Fans Electronic devices Small pumps Acoustic panel
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.A Mounting compression
.B Mounting cisaillement

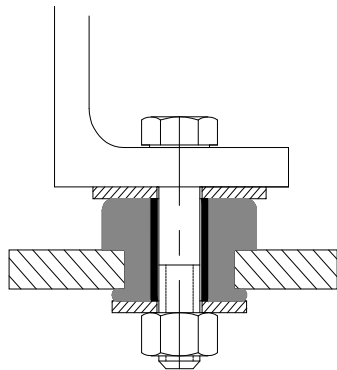
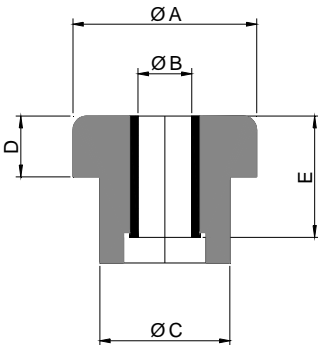
Réf.	Dim. mm	D mm	dB mm	d mm	l mm	k mm	b mm
ECF 3	M3	9	7.2	3.4	9.0	2.5	8.0
ECF 4	M4	12	9.3	4.4	11.5	3.0	10.5
ECF 5	M5	15	10.2	5.4	14.5	3.5	13.0
ECF 6	M6	18	12.7	6.4	17.0	4.0	15.0
ECF 8	M8	24	16.5	8.4	22.0	5.0	19.5

Réf.	Passage mm	épaisseur mm	Couple en Nm		Load Max kg		
			Mont. 1	Mont. 2	1		2
					A	A	
ECF 3	7.2 – 7.5	0.6 – 2.5	0.3 - 0.4	0.4 - 0.5	1	5	2.5
ECF 4	9.3 – 9.6	0.8 – 3.3	0.4 – 0.6	0.4 – 0.5	1	7	3.5
ECF 5	10.2 – 10.5	0.8 – 4.3	0.6 – 0.10	0.5 – 0.6	1.5	10	5
ECF 6	12.7 – 13.0	1.5 – 5.0	0.23 – 0.35	0.7 – 0.9	3	14	7
ECF 8	16.5 – 16.8	1.5 – 6.5	0.30 – 0.40	0.16 – 0.18	5	28	14

FIXING WASHER



Materials	NR rubber bonding inner insert Fail safe if using washer
Hardness	45 / 60 / 75 Sh A +-5
Température	-30C° +80C°
Natural frequency	20 - 10 Hz
Fail-safe	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Vehicule off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>



typ	A	B	C	D	E
PS 27*10/20	27,7	10	20,6	5,6	17,5
PS 44*13/30	44,5	13	31,5	10,4	25,4
PS 50*13/34	50,8	13	34,3	13,5	35
PS 63*16/41	63,5	16	41,1	15,7	44,5
PS 95*20/56	95	20	56,6	25,4	50,8

Reference	Hardness		Load daN		Deflection Load Max
	Sh A	Mini	Maxi	mm	
PS 27*10/20 145	45	8	15	0,7	
PS 27*10/20 160	60	10	50	0,7	
PS 44*13/30 145	45	15	75	1,2	
PS 44*13/30 160	60	25	100	1,2	
PS 50*13/34 160	60	35	150	1,2	
PS 50*13/34 175	75	80	330	1,2	

Reference	Hardness		Load daN		Flèche Load Max
	Sh A	Mini	Maxi	mm	
PS 63*16/41 160	60	60	250	2	
PS 63*16/41 175	75	125	500	2	
PS 95*20/56 160	60	175	700	3	
PS 95*20/56 175	75	250	1000	3	

2 WASHERS MOUNT



Materials 2 elastomer parts 1 ring 1 bonded on inner metal tube Rubber CR Variant NR

Hardness 45 55 60 Sh A +-5 others Hardness on request

Temperature -30C° + 80C°

Natural frequency 20 - 10 Hz

Fail-safe

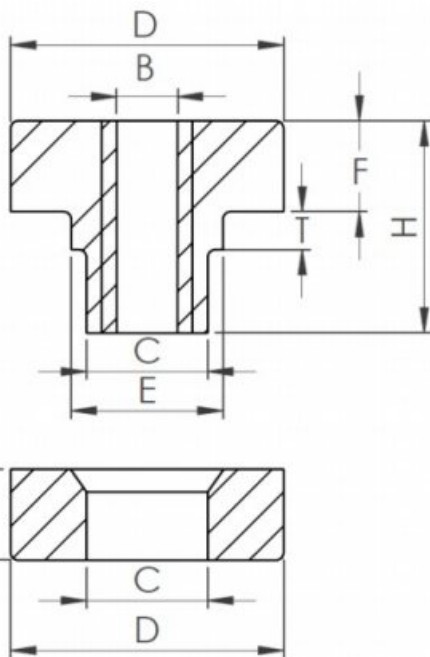
Vibration isolation

Shock damping

Oil Grease Ozone resistance...

Construction-borne noise isolation

Vehicle off road application



typ	D	B	C	E	F	T	H
PSR 221	33,2	10,4	20,6	25	12,3	9,5	31,7
PSR 222	47,7	13,5	31,5	33	19,8	14	49,2
PSR 223	64,8	16,7	34,3	40,1	22,8	22	61,7
PSR 224	89	23,8	41,1	58,4	25,4	28,5	73,1
PSR 225	124	27	56,6	63,5	31,7	32	85,8

Reference	Hardness	Load daN		Deflection Load Max
	Sh A	Mini	Maxi	mm
PSR 221-160	60	10	64	1,3
PSR 222-160	60	10	110	1,8
PSR 223-160	45	15	180	2,2
PSR 224-160	60	25	320	2,3
PSR 225-160	60	35	700	2,5

Mounting :

Contact us for specification



Special parts

Reference	Frame thickness	
	Mini mm	Maxi mm
PSR 221-160	9,5	9,5
PSR 222-160	13	14
PSR 223-160	19	22
PSR 224-160	26	28
PSR 225-160	20	32

CONICAL MOUNT



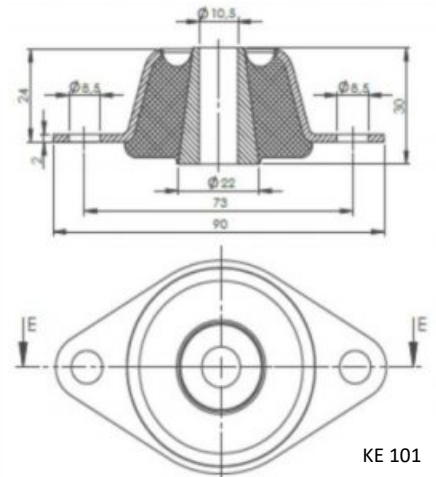
Materials	Elastomer NR bonded between the inner tube and outer housing Zinc anti-corrosion Washer for security mounting and anti-rebound
Hardness	45 - 55 - 70 Sh A +5
Tolerance	DIN 7715 M3
Natural frequency	> 12 Hz

Fail-safe	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>

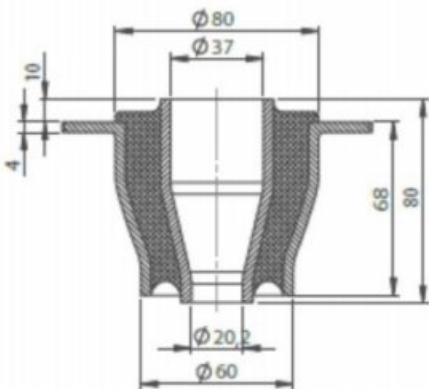
Features

- Rubber working compression/ shearing
- Medium deflection
- Lateral stability
- Stiffness different 3 axes X Y Z
- Fail-safe with washer

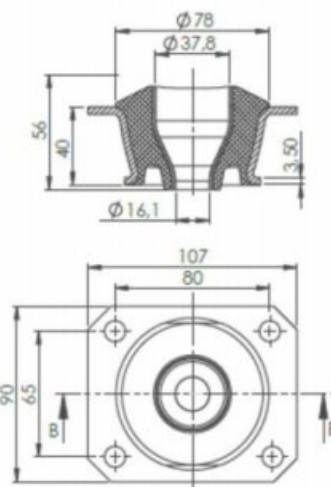
Applications Cabin
Motor
Frame



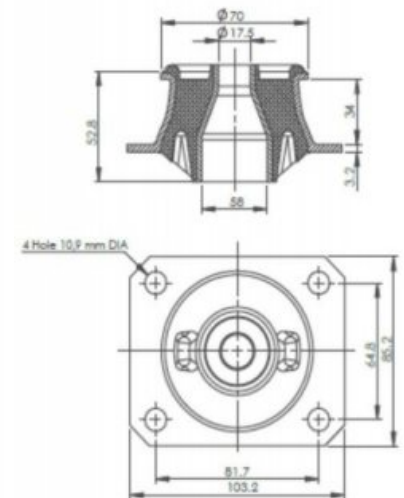
KE 101



KE 104



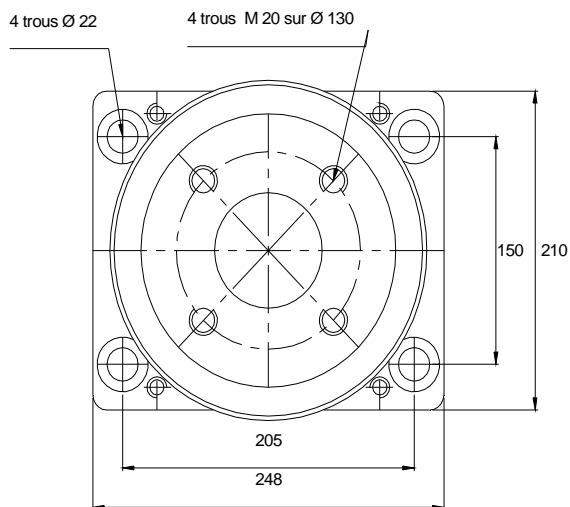
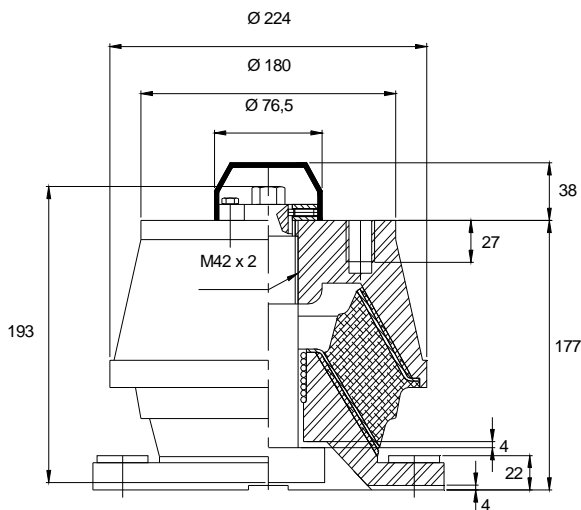
KE 103



KE 102

Curves load/deflection on request

HEAVY LOAD ISOLATOR



Materials	Rubber NR or CR AU4G casting
Natural frequency	8-10 Hz
Hardness	50 Sh A +-5
Tolérance	DIN 7715 M3

Fail-safe	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Features

- Rubber working in semi-shear protected from damage
- Integrated stop to control vertical and horizontal movements
- High elastic deflection for high efficiency for shock and vibration insulation
- High mechanical strength
- Differentiated stiffness in both axes; Horizontal stiffness is superior to vertical stiffness so the transverse stability is optimized.

Applications

- Engine
- Marine engine
- Blower
- Exhaust
- Cabin

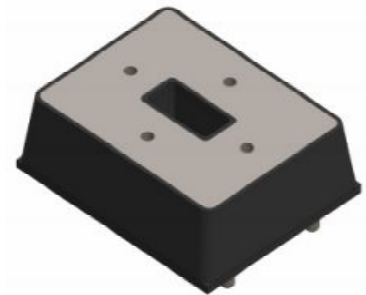
Nous consulter pour le Mounting

Reference	Load maximum compression kg	Deflection Max mm	Stiffness shearing N/mm
J 248177 -150	3100	7.5	413

Other Load on request

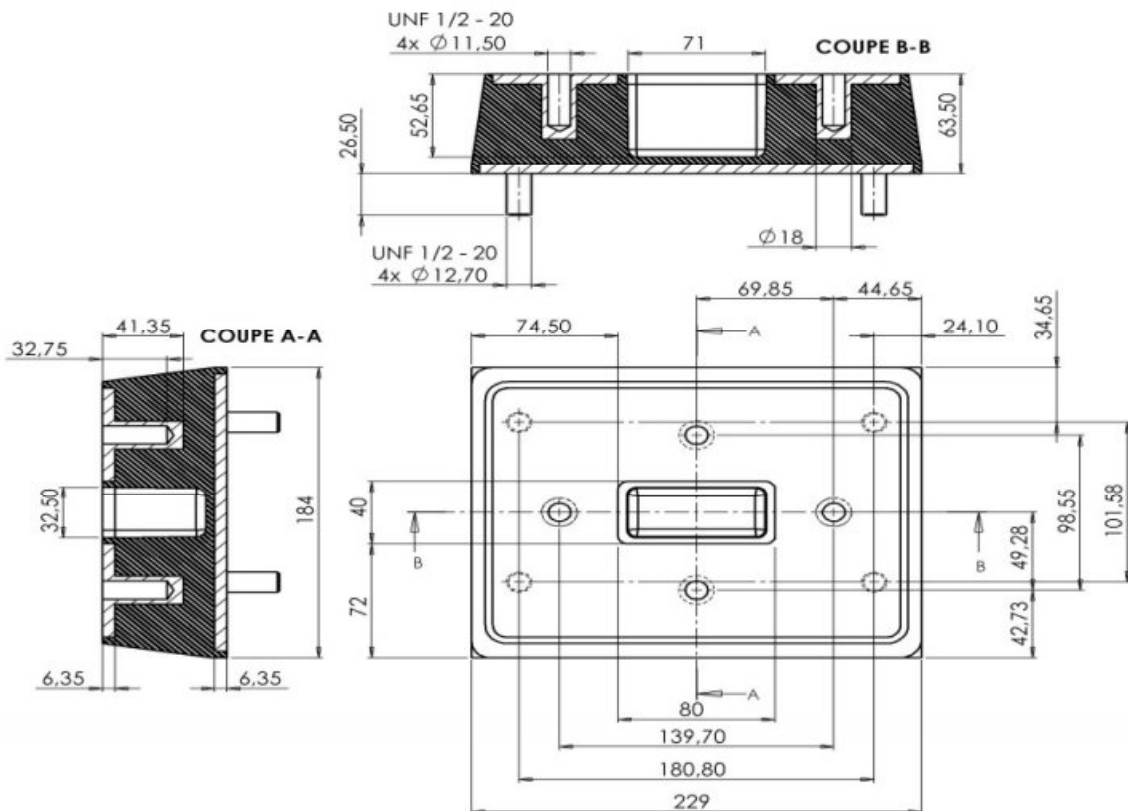
Weight: 14 kg

DAMPER HIGH LOAD CAPACITY



Materials	Elastomer NR or NBR Bonded too steel zinc plates
Hardness	65 Sh A +- 5
Tolerance	DIN 7715 M3
Fixing	UNF
Fail-safe	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

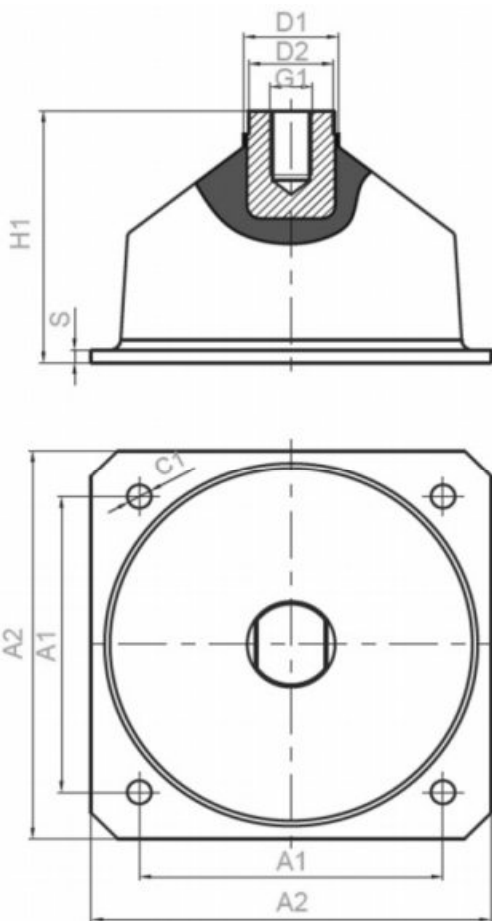
Reference	Load maximum Compression kg	Stiffness compression N/mm	Load maximum Shearing kg	Stiffness shearing N/mm
J 6332 – 165	5900	7100	740	740



DAMPER HIGH DEFLECTION



Materials	Conical rubber NR (Variant CR) bonded on base plate with 4 fixing holes and top steel fixing ring
Hardness	45 - 65 Sh A +-5
Temperature	NR -30C° +80 C° CR -30C° +120 C°
Natural frequency	4 to 8 Hz
Fail-safe	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>



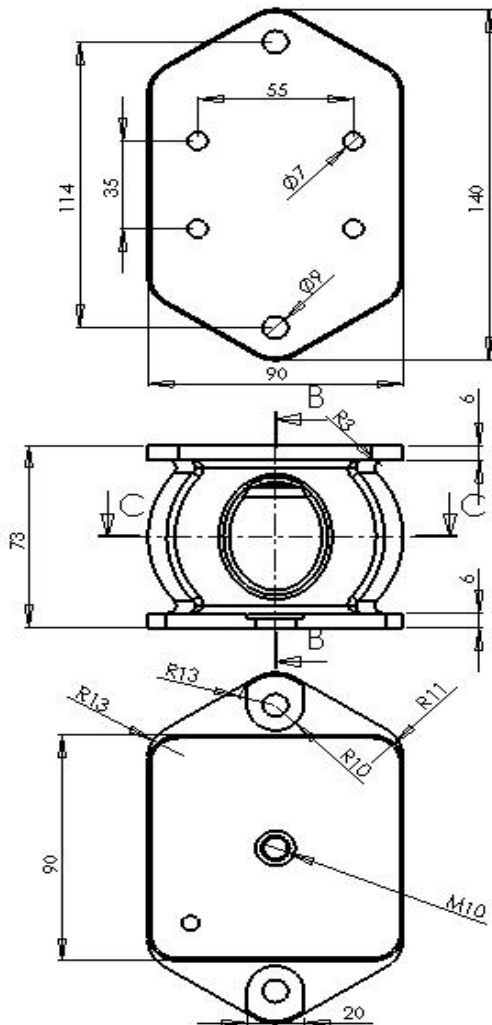
Application	Compressor Alternator On-board equipment under constraints of shocks Transformer Fan Pump Packaging/Shipping
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typ	A1	A2	H1	D1	D2	S	C1	G1
J 150097	114	140	97.5	35	27	5	9	M16
J 165125	140	165	125.5	54	42	10	13	M16
J 190250	210	250	154	116	41	15	18	M24

Reference	Load kg Minimum Fz	Load kg Maximum Fz	Stiffness Fz N/mm	Deflection mm Load Max
J 150097 -145	60	150	166	9
J 150097 -165	160	400	444	9

Reference	Load kg Minimum Fz	Load kg Maximum Fz	Stiffness Fz N/mm	Deflection mm Load Max.
J 165125 -145	100	245	144	17
J 165125 -165	200	600	353	17

Reference	Load kg Minimum Fz	Load kg Maximum Fz	Stiffness Fz N/mm	Deflection mm Load Max
J 190250 -145	300	720	55,40	13
J 190250 -155	400	920	70,80	13



Materials	Rubber NR bonded on 2 steel fixing plate
Load	25—150 Kilos
Stiffness	<ul style="list-style-type: none"> • Stiffness Kx 145 N/mm • Stiffness Ky 20 N/mm • Stiffness Kz 30 N/mm
Shock deflection	15 mm axial

Fail-safe	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>

CYLINDRICAL MOUNT



typ A



typ B



typ C



typ D



typ E

Materials Rubber NR bonding
Metal parts zinc Rohs
Variant stainless steel 304L 316L

Form typ A DIN 95363 Form A
typ B DIN 95363 Form B
typ C DIN 95363 Form C
typ D DIN 95364 Form D
typ E DIN 95364 Form E

Elastomer Variant CR EPDM CR VMQ

Temperature NR – 40° + 80°
For other rubber on request

Hardness Standard 55 Sh A
Variante 45 / 70 Sh A
Sur demande 65 / 80Sh A

Tolerance DIN 7715 M3
Hardness +/- 5 Sh A

Fail-safe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Avantages

- .Extensive range 5 series
- .Quick fixing
- .Cost
- .Universal mounts

Mounting

- .Compression
- .Semi-cisaillement
- .Cisaillement

Traction not available



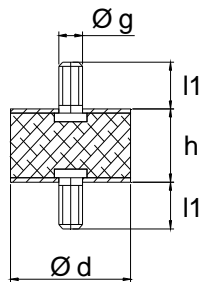
Variant

Stainless steel



EC typ A

MALE - MALE



Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard				mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 0606/A M3x06 -145	1,2			EC 0606/A M3x06 -155	6	6	M3x6	1,2		0	EC 0606/A M3x06 -170	1,2		
EC 0610/A M3x06 -145	2			EC 0610/A M3x06 -155	6	10	M3x6	2		0	EC 0610/A M3x06 -170	2		
EC 0806/A M3x06-145	1,2	0,94	1,13	EC 0806/A M3x06-155	8	6	M3x6	1,2	2,91	3,492	EC 0806/A M3x06-170	1,2	3,76	4,52
EC 0808/A M3x06-145	1,6	1,35	2,2	EC 0808/A M3x06-155	8	8	M3x6	1,6	3,79	6,064	EC 0808/A M3x06-170	1,6	5,55	8,88
EC 0810/A M3x06-145	2		2	EC 0810/A M3x06-155	8	10	M3x6	2		0	EC 0810/A M3x06-170	2		
EC 1006/A M4x10-145	1,2			EC 1006/A M4x10-155	10	6	M4x10	1,2		0	EC 1006/A M4x10-170	1,2		
EC 1008/A M4x10-145	1,6			EC 1008/A M4x10-155	10	8	M4x10	1,6		0	EC 1008/A M4x10-170	1,6		
EC 1010/A M4x10-145	2	2,08	5,2	EC 1010/A M4x10-155	10	10	M4x10	2	4,22	10	EC 1010/A M4x10-170	2	6,08	13
EC 1015/A M4x10-145	3	1,5	4,5	EC 1015/A M4x10-155	10	15	M4x10	3	3,29	10	EC 1015/A M4x10-170	3	4,61	13
EC 1020/A M4x10-145	4	1,32	4	EC 1010/A M4x10-155	10	20	M4x10	4	2,82	10	EC 1010/A M4x10-170	4	3,95	13
EC 1215/A M5x10-145	3			EC 1215/A M4x10-155	12	12	M5x10	2,4		0	EC 1215/A M4x10-170	2,4		
EC 1505/A M4x10-145	1			EC 1505/A M4x10-155	15	5	M4x10	1		20	EC 1505/A M4x10-170	1		
EC 1510/A M4x10-145	2	7,64	16	EC 1510/A M4x10-155	15	10	M4x10	2	14,17	29	EC 1510/A M4x10-170	2	21,23	43
EC 1515/A M4x10-145	3	2,64	8	EC 1515/A M4x10-155	15	15	M4x10	3	5,65	17	EC 1515/A M4x10-170	3	9,18	28
EC 1520/A M4x10-145	4	1,72	7	EC 1520/A M4x10-155	15	20	M4x10	4	4,46	16	EC 1520/A M4x10-170	4	7,91	23
EC 1525/A M4x10-145	5			EC 1525/A M4x10-155	15	25	M4x10	5		0	EC 1525/A M4x10-170	5		
EC 1530/A M4x10-145	6	1,35	6	EC 1530/A M4x10-155	15	30	M4x10	6	2,3	14	EC 1530/A M4x10-170	6	3,25	20
EC 1510/A M6x18-145	2	7,64	16	EC 1510/A M6x18-155	15	10	M6x18	2	14,17	30	EC 1510/A M6x18-170	2	21,23	45
EC 1515/A M6x18-145	3	2,64	8	EC 1515/A M6x18-155	15	15	M6x18	3	5,65	17	EC 1515/A M6x18-170	3	9,18	29
EC 1520/A M6x18-145	4	1,72	7	EC 1520/A M6x18-155	15	20	M6x18	4	4,46	14	EC 1520/A M6x18-170	4	7,91	30
Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard				mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 2005/A M6x18-145	1	13,8	14	EC 2005/A M6x18-155	20	5	M6x18	1	24,6	25	EC 2005/A M6x18-170	1	36,9	37
EC 2008/A M6x18-145	1,6	12,6	20	EC 2008/A M6x18-155	20	8	M6x18	1,6	21,53	35	EC 2008/A M6x18-170	1,6	33,84	55
EC 2010/A M6x18-145	2	11,66	25	EC 2010/A M6x18-155	20	10	M6x18	2	19,74	40	EC 2010/A M6x18-170	2	32,62	65
EC 2012/A M6x18-145	2,4	9,74	25	EC 2012/A M6x18-155	20	12	M6x18	2,4	16	40	EC 2012/A M6x18-170	2,4	25,13	60
EC 2015/A M6x18-145	3	7,83	25	EC 2015/A M6x18-155	20	15	M6x18	3	12,28	40	EC 2015/A M6x18-170	3	17,63	52
EC 2020/A M6x18-145	4	4,7	25	EC 2020/A M6x18-155	20	20	M6x18	4	9,4	38	EC 2020/A M6x18-170	4	11,52	46
EC 2025/A M6x18-145	5	3,38	25	EC 2025/A M6x18-155	20	25	M6x18	5	7,59	35	EC 2025/A M6x18-170	5	7,94	40
EC 2030/A M6x18-145	6	3,12	20	EC 2030/A M6x18-155	20	30	M6x18	6	4,41	27	EC 2030/A M6x18-170	6	6,73	40
EC 2040/A M6x18-145	8		0	EC 2040/A M6x18-155	20	40	M6x18	8		0	EC 2040/A M6x18-170	8		
EC 2005/A M8x23-145	1	13,8	13,8	EC 2005/A M8x23-155	20	5	M8x23	1	24,6	25	EC 2005/A M8x23-170	1	36,9	37
EC 2008/A M8x23-145	1,6	12,6	25	EC 2008/A M8x23-155	20	8	M8x23	1,6	21,53	35	EC 2008/A M8x23-170	1,6	33,84	55
EC 2010/A M8x23-145	2	11,66	25	EC 2010/A M8x23-155	20	10	M8x23	2	19,74	40	EC 2010/A M8x23-170	2	32,62	65
EC 2012/A M8x23-145	2,4	9,74	25	EC 2012/A M8x23-155	20	12	M8x23	2,4	16	40	EC 2012/A M8x23-170	2,4	25,13	60
EC 2015/A M8x23-145	3	7,83	25	EC 2015/A M8x23-155	20	15	M8x23	3	12,28	40	EC 2015/A M8x23-170	3	17,63	52
EC 2020/A M8x23-145	4	4,7	25	EC 2020/A M8x23-155	20	20	M8x23	4	9,4	38	EC 2020/A M8x23-170	4	11,52	46
EC 2025/A M8x23-145	5	3,38	25	EC 2025/A M8x23-155	20	25	M8x23	5	7,59	35	EC 2025/A M8x23-170	5	7,94	40
EC 2030/A M8x23-145	6	3,12	20	EC 2030/A M8x23-155	20	30	M8x23	6	4,41	27	EC 2030/A M8x23-170	6	6,73	40
EC 2040/A M8x23-145	8			EC 2040/A M8x23-155	20	40	M8x23	8			EC 2040/A M8x23-170	8		
EC 2508/A M6x18-145	1,6			EC 2508/A M6x18-155	25	8	M6 x18	1,6			EC 2508/A M6x18-170	1,6		
EC 2510/A M6x18-145	2	38,54	80	EC 2510/A M6x18-155	25	10	M6 x18	2	64,86	130	EC 2510/A M6x18-170	2	92,78	185
EC 2515/A M6x18-145	3	11,62	35	EC 2515/A M6x18-155	25	15	M6 x18	3	21,15	65	EC 2515/A M6x18-170	3	27,26	80
EC 2520/A M6x18-145	4	8,07	32	EC 2520/A M6x18-155	25	20	M6 x18	4	13,05	50	EC 2520/A M6x18-170	4	18,57	75
EC 2522/A M6x18-145	4,4			EC 2522/A M6x18-155	25	22	M6 x18	4,4			EC 2522/A M6x18-170	4,4		
EC 2525/A M6x18-145	5	5,55	28	EC 2525/A M6x18-155	25	25	M6 x18	5	8,98	45	EC 2525/A M6x18-170	5	14,1	70
EC 2530/A M6x18-145	6	4,24	25	EC 2530/A M6x18-155	25	30	M6 x18	6	6,72	40	EC 2530/A M6x18-170	6	9,73	58
EC 2535/A M6x18-145	7	3,49	22	EC 2535/A M6x18-155	25	35	M6 x18	7	5,78	38	EC 2535/A M6x18-170	7	6,44	45
EC 2540/A M6x18-145	8			EC 2540/A M6x18-155	25	40	M6 x18	8			EC 2540/A M6x18-170	8		
EC 2508/A M8x23-145	1,6			EC 2508/A M8x23-155	25	8	M8x23	1,6			EC 2508/A M8x23-170	1,6		
EC 2510/A M8x23-145	2	38,54	75	EC 2510/A M8x23-155	25	10	M8x23	2	64,86	130	EC 2510/A M8x23-170	2	92,78	185
EC 2515/A M8x23-145	3	11,62	34	EC 2515/A M8x23-155	25	15	M8x23	3	21,15	65	EC 2515/A M8x23-170	3	27,26	80
EC 2520/A M8x23-145	4	8,07	43	EC 2520/A M8x23-155	25	20	M8x23	4	13,05	50	EC 2520/A M8x23-170	4	18,57	75
EC 2522/A M8x23-145	4,4			EC 2522/A M8x23-155	25	22	M8x23	4,4			EC 2522/A M8x23-170	4,4		
EC 2525/A M8x23-145	5	5,55	27	EC 2525/A M8x23-155	25	25	M8x23	5	8,98	45	EC 2525/A M8x23-170	5	14,1	70
EC 2530/A M8x23-145	6	4,24	25	EC 2530/A M8x23-155	25	30	M8x23	6	6,72	42	EC 2530/A M8x23-170	6	9,73	58
EC 2535/A M8x23-145	7	3,49	23	EC 2535/A M8x23-155	25	35	M8x23	7	5,78	38	EC 2535/A M8x23-170	7	6,44	45

EC typ A



MALE - MALE

Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard				mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 3010/A M8x23-145	2	43,71	90	EC 3010/A M8x23-155	30	10	M8x23	2	66,93	140	EC 3010/A M8x23-170	2	78,87	160
EC 3015/A M8x23-145	3	25	75	EC 3015/A M8x23-155	30	15	M8x23	3	45,68	138	EC 3015/A M8x23-170	3	65,8	200
EC 3016/A M8x23-145	3,2	24,1	75	EC 3016/A M8x23-155	30	16	M8x23	3,2	43,2	138	EC 3016/A M8x23-170	3,2	63,2	200
EC 3020/A M8x23-145	4	12,6	50	EC 3020/A M8x23-155	30	20	M8x23	4	19,1	80	EC 3020/A M8x23-170	4	28,11	113
EC 3022/A M8x23-145	4,4			EC 3022/A M8x23-155	30	22	M8x23	4,4			EC 3022/A M8x23-170	4,4		
EC 3025/A M8x23-145	5	8,41	42	EC 3025/A M8x23-155	30	25	M8x23	5	12,91	65	EC 3025/A M8x23-170	5	19,14	95
EC 3030/A M8x23-145	6	5,78	35	EC 3030/A M8x23-155	30	30	M8x23	6	10	60	EC 3030/A M8x23-170	6	14,61	88
EC 3035/A M8x23-145	7	5,26	35	EC 3035/A M8x23-155	30	35	M8x23	7	9,02	58	EC 3035/A M8x23-170	7	12,41	85
EC 3040/A M8x23-145	8	4,79	35	EC 3040/A M8x23-155	30	40	M8x23	8	8,46	55	EC 3040/A M8x23-170	8	11,84	80
EC 3045/A M8x23-145	9	4,23	35	EC 3045/A M8x23-155	30	45	M8x23	9	7,9	50	EC 3045/A M8x23-170	9	11,56	75
EC 3050/A M8x23-145	10			EC 3050/A M8x23-155	30	50	M8x23	10			EC 3050/A M8x23-170	10		
EC 3010/A M10x28-145	2	43,71	90	EC 3010/A M10x28-155	30	10	M10x28	2	66,93	140	EC 3010/A M10x28-170	2	78,87	160
EC 3015/A M10x28-145	3	25	75	EC 3015/A M10x28-155	30	15	M10x28	3	45,68	138	EC 3015/A M10x28-170	3	65,8	200
EC 3020/A M10x28-145	4	12,6	50	EC 3020/A M10x28-155	30	20	M10x28	4	19,1	80	EC 3020/A M10x28-170	4	28,11	113
EC 3022/A M10x28-145	4,4			EC 3022/A M10x28-155	30	22	M10x28	4,4			EC 3022/A M10x28-170	4,4		
EC 3025/A M10x28-145	5	8,41	42	EC 3025/A M10x28-155	30	25	M10x28	5	12,91	65	EC 3025/A M10x28-170	5	19,14	95
EC 3030/A M10x28-145	6	5,78	35	EC 3030/A M10x28-155	30	30	M10x28	6	10	60	EC 3030/A M10x28-170	6	14,61	88
EC 3035/A M10x28-145	7	5,26	33	EC 3035/A M10x28-155	30	35	M10x28	7	9,02	60	EC 3035/A M10x28-170	7	12,41	85
EC 3040/A M10x28-145	8	4,79	33	EC 3040/A M10x28-155	30	40	M10x28	8	8,46	58	EC 3040/A M10x28-170	8	11,84	80
EC 3045/A M10x28-145	9	4,23	30	EC 3045/A M10x28-155	30	45	M10x28	9	7,9	50	EC 3045/A M10x28-170	9	11,56	113
EC 3050/A M10x28-145	10			EC 3050/A M10x28-155	30	50	M10x28	10			EC 3050/A M10x28-170	10		
EC 3015/A M12x28-145	3	25	75	EC 3015/A M12x28-155	30	15	M10x28	3	25	138	EC 3015/A M12x28-170	3	25	200
EC 3020/A M12x37-145	4	12,6	50	EC 3020/A M12x37-155	30	20	M12x37	4	19,6	80	EC 3020/A M12x37-170	4	12,6	113
EC 3025/A M12x37-145	5	8,31	42	EC 3025/A M12x37-155	30	25	M12x37	5	12,91	65	EC 3025/A M12x37-170	5	19,14	100
EC 3030/A M12x37-145	6	5,78	35	EC 3030/A M12x37-155	30	30	M12x37	6	10	60	EC 3030/A M12x37-170	6	14,61	88
EC 3035/A M12x37-145	7	5,26	33	EC 3035/A M12x37-155	30	35	M12x37	7	9,02	58	EC 3035/A M12x37-170	7	12,41	85
EC 3040/A M12x37-145	8	4,79	33	EC 3040/A M12x37-155	30	40	M12x37	8	8,46	50	EC 3040/A M12x37-170	8	11,84	80

Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard				mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 4010/A M8x23-145	2	0		EC 4010/A M8x23-155	40	10	M8x23	2	0		EC 4010/A M8x23-170	2		
EC 4015/A M8x23-145	3	23,31	70	EC 4015/A M8x23-155	40	15	M8x23	3	42,86	130	EC 4015/A M8x23-170	3	81,17	245
EC 4020/A M8x23-145	4	21,15	85	EC 4020/A M8x23-155	40	20	M8x23	4	29,52	130	EC 4020/A M8x23-170	4	69,56	280
EC 4025/A M8x23-145	5	18,24	85	EC 4025/A M8x23-155	40	25	M8x23	5	26,13	130	EC 4025/A M8x23-170	5	55,1	275
EC 4030/A M8x23-145	6	12,1	73	EC 4030/A M8x23-155	40	30	M8x23	6	19,6	115	EC 4030/A M8x23-170	6	28,18	170
EC 4035/A M8x23-145	7	11,8	70	EC 4035/A M8x23-155	40	35	M8x23	7	16,73	115	EC 4035/A M8x23-170	7	25,38	170
EC 4040/A M8x23-145	8	7,86	63	EC 4040/A M8x23-155	40	40	M8x23	8	12,56	100	EC 4040/A M8x23-170	8	18,24	155
EC 4045/A M8x23-145	9	8,38	60	EC 4045/A M8x23-155	40	45	M8x23	9	11,75	100	EC 4045/A M8x23-170	9	17,92	140
EC 4050/A M8x23-145	10			EC 4050/A M8x23-155	40	50	M8x23	10			EC 4050/A M8x23-170	10		
EC 4010/A M10x28-145	2			EC 4010/A M10x28-155	40	10	M10x28	2			EC 4010/A M10x28-170	2		
EC 4015/A M10x28-145	3	23,31	70	EC 4015/A M10x28-155	40	15	M10x28	3	42,86	130	EC 4015/A M10x28-170	3	81,17	245
EC 4020/A M10x28-145	4	21,15	85	EC 4020/A M10x28-155	40	20	M10x28	4	29,52	130	EC 4020/A M10x28-170	4	69,56	280
EC 4025/A M10x28-145	5	18,24	85	EC 4025/A M10x28-155	40	25	M10x28	5	26,13	130	EC 4025/A M10x28-170	5	55,1	275
EC 4030/A M10x28-145	6	12,1	73	EC 4030/A M10x28-155	40	30	M10x28	6	19,6	115	EC 4030/A M10x28-170	6	28,18	170
EC 4035/A M10x28-145	7	11,8	70	EC 4035/A M10x28-155	40	35	M10x28	7	16,73	115	EC 4035/A M10x28-170	7	25,38	170
EC 4040/A M10x28-145	8	7,86	63	EC 4040/A M10x28-155	40	40	M10x28	8	12,56	100	EC 4040/A M10x28-170	8	18,24	155
EC 4045/A M10x28-145	9	8,38	60	EC 4045/A M10x28-155	40	45	M10x28	9	11,75	100	EC 4045/A M10x28-170	9	17,92	140
EC 4050/A M10x28-145	10			EC 4050/A M10x28-155	40	50	M10x28	10			EC 4050/A M10x28-170	10		
EC 4010/A M12x37-145	2			EC 4010/A M12x37-155	40	10	M12x37	2			EC 4010/A M12x37-170	2		
EC 4015/A M12x37-145	3	23,31	70	EC 4015/A M12x37-155	40	15	M12x37	3	42,86	130	EC 4015/A M12x37-170	3	81,17	245
EC 4020/A M12x37-145	4	21,15	85	EC 4020/A M12x37-155	40	20	M12x37	4	29,52	130	EC 4020/A M12x37-170	4	69,56	280
EC 4025/A M12x37-145	5	18,24	85	EC 4025/A M12x37-155	40	25	M12x37	5	26,13	130	EC 4025/A M12x37-170	5	55,1	275
EC 4030/A M12x37-145	6	12,1	73	EC 4030/A M12x37-155	40	30	M12x37	6	19,6	115	EC 4030/A M12x37-170	6	28,18	170
EC 4035/A M12x37-145	7	11,8	70	EC 4035/A M12x37-155	40	35	M12x37	7	16,73	115	EC 4035/A M12x37-170	7	25,38	170
EC 4040/A M12x37-145	8	7,86	63	EC 4040/A M12x37-155	40	40	M12x37	8	12,56	100	EC 4040/A M12x37-170	8	18,24	155

Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard				mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 5010/A M10x28-145	2			EC 5010/A M10x28-155	50	10	M10x28	2			EC 5010/A M10x28-170	2		
EC 5015/A M10x28-145	3	67,67	205	EC 5015/A M10x28-155	50	15	M10x28	3	126,43	380	EC 5015/A M10x28-170	3	191,85	575
EC 5020/A M10x28-145	4	50,22	200	EC 5020/A M10x28-155	50	20	M10x28	4	93	370	EC 5020/A M10x28-170	4	149,82	550
EC 5025/A M10x28-145	5	29,85	150	EC 5025/A M10x28-155	50	25	M10x28	5	54,36	270	EC 5025/A M10x28-170	5	79,22	400
EC 5030/A M10x28-145	6	20,46	120	EC 5030/A M10x28-155	50	30	M10x28	6	36,92	220	EC 5030/A M10x28-170	6	53,1	320
EC 5035/A M10x28-145	7	20,29	115	EC 5035/A M10x28-155	50	35	M10x28	7	28,02	195	EC 5035/A M10x28-170	7	42,2	295
EC 5040/A M10x28-145	8	13,67	110	EC 5040/A M10x28-155	50	40	M10x28	8	24,27	195	EC 5040/A M10x28-170	8	34,41	275
EC 5045/A M10x28-145	9	11,16	100	EC 5045/A M10x28-155	50	45	M10x28	9	17,86	160	EC 5045/A M10x28-170	9	29,02	260
EC 5050/A M10x28-145	10	9,58	95	EC 5050/A M10x28-155	50	50	M10x28	10	16,09	160	EC 5050/A M10x28-170	10	24,74	250
EC 5055/A M10x28-145	11			EC 5055/A M10x28-155	50	55	M10x28	11			EC 5055/A M10x28-170	11		
EC 5010/A M12x27-145	2			EC 5010/A M12x27-155	50	10	M12x37	2			EC 5010/A M12x27-170	2		
EC 5015/A M12x27-145	3	67,67	205	EC 5015/A M12x27-155	50	15	M12x37	3	126,43	380	EC 5015/A M12x27-170	3	191,85	575
EC 5020/A M12x27-145	4	50,22	200	EC 5020/A M12x27-155	50	20	M12x37	4	93	370	EC 5020/A M12x27-170	4	149,82	550
EC 5025/A M12x27-145	5	29,85	150	EC 5025/A M12x27-155	50	25	M12x37	5	54,36	270	EC 5025/A M12x27-170	5	79,22	400
EC 5030/A M12x27-145	6	20,46	120	EC 5030/A M12x27-155	50	30	M12x37	6	36,92	220	EC 5030/A M12x27-170	6	53,1	320
EC 5035/A M12x27-145	7	20,29	115	EC 5035/A M12x27-155	50	35	M12x37	7	28,02	195	EC 5035/A M12x27-170	7	42,2	295
EC 5040/A M12x27-145	8	13,67	110	EC 5040/A M12x27-155	50	40	M12x37	8	24,27	195	EC 5040/A M12x27-170	8	34,41	275
EC 5045/A M12x27-145	9	11,16	100	EC 5045/A M12x27-155	50	45	M12x37	9	17,86	160	EC 5045/A M12x27-170	9	29,02	260

EC typ A

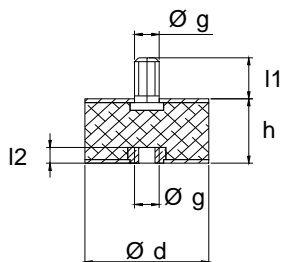


MALE - MALE

Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard				mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 6015/A M10x28-145	3	115,8	350	EC 6015/A M10x28-155	60	15	M10x28	3	153,14	480	EC 6015/A M10x28-170	3	222,65	660
EC 6020/A M10x28-145	4	89,11	350	EC 6020/A M10x28-155	60	20	M10x28	4	117,78	470	EC 6020/A M10x28-170	4	129	510
EC 6025/A M10x28-145	5	66,18	330	EC 6025/A M10x28-155	60	25	M10x28	5	88,17	440	EC 6025/A M10x28-170	5	86,89	435
EC 6030/A M10x28-145	6	43,24	260	EC 6030/A M10x28-155	60	30	M10x28	6	58,56	360	EC 6030/A M10x28-170	6	65,14	390
EC 6035/A M10x28-145	7	31,9	225	EC 6035/A M10x28-155	60	35	M10x28	7	43,52	310	EC 6035/A M10x28-170	7	65,14	456
EC 6040/A M10x28-145	8	25,1	200	EC 6040/A M10x28-155	60	40	M10x28	8	34,69	280	EC 6040/A M10x28-170	8	52,17	415
EC 6045/A M10x28-145	9	20,77	186	EC 6045/A M10x28-155	60	45	M10x28	9	28,86	260	EC 6045/A M10x28-170	9	46,62	415
EC 6050/A M10x28-145	10	13,16	130	EC 6050/A M10x28-155	60	50	M10x28	10	18,8	190	EC 6050/A M10x28-170	10	47	400
EC 6015/A M12x37-145	3	115,8	350	EC 6015/A M12x37-155	60	15	M12x37	3	153,14	480	EC 6015/A M12x37-170	3	222,65	660
EC 6020/A M12x37-145	4	89,11	350	EC 6020/A M12x37-155	60	20	M12x37	4	117,78	470	EC 6020/A M12x37-170	4	129	510
EC 6025/A M12x37-145	5	66,18	330	EC 6025/A M12x37-155	60	25	M12x37	5	88,17	440	EC 6025/A M12x37-170	5	86,89	435
EC 6030/A M12x37-145	6	43,24	260	EC 6030/A M12x37-155	60	30	M12x37	6	58,56	360	EC 6030/A M12x37-170	6	65,14	390
EC 6035/A M12x37-145	7	31,9	225	EC 6035/A M12x37-155	60	35	M12x37	7	43,52	310	EC 6035/A M12x37-170	7	65,14	456
EC 6040/A M12x37-145	8	25,1	200	EC 6040/A M12x37-155	60	40	M12x37	8	34,69	280	EC 6040/A M12x37-170	8	52,17	415
EC 6045/A M12x37-145	9	20,77	186	EC 6045/A M12x37-155	60	45	M12x37	9	28,86	260	EC 6045/A M12x37-170	9	46,62	415
EC 6050/A M12x37-145	10	13,16	130	EC 6050/A M12x37-155	60	50	M12x37	10	18,8	190	EC 6050/A M12x37-170	10	47	400
Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
EC 7020/A M10x28-145	4			EC 7020/A M10x28-155	70	20	M10x28	4			EC 7020/A M10x28-170	4		
EC 7025/A M10x28-145	5	95,3	480	EC 7025/A M10x28-155	70	25	M10x28	5	148	740	EC 7025/A M10x28-170	5	193,3	970
EC 7030/A M10x28-145	6	66,46	400	EC 7030/A M10x28-155	70	30	M10x28	6	89	530	EC 7030/A M10x28-170	6	130,94	785
EC 7035/A M10x28-145	7	47,56	330	EC 7035/A M10x28-155	70	35	M10x28	7	64,58	450	EC 7035/A M10x28-170	7	95,88	670
EC 7040/A M10x28-145	8	36,85	295	EC 7040/A M10x28-155	70	40	M10x28	8	50,48	400	EC 7040/A M10x28-170	8	75,48	600
EC 7045/A M10x28-145	9			EC 7045/A M10x28-155	70	45	M10x28	9			EC 7045/A M10x28-170	9		
EC 7050/A M10x28-145	10	25,38	255	EC 7050/A M10x28-155	70	50	M10x28	10	35,16	351,6	EC 7050/A M10x28-170	10	44,56	445
EC 7060/A M10x28-145	12	17,11	205	EC 7060/A M10x28-155	70	60	M10x28	12	20,68	350	EC 7060/A M10x28-170	12	36,66	425
EC 7070/A M10x28-145	14	15,04	200	EC 7070/A M10x28-155	70	70	M10x28	14	17,86	250	EC 7070/A M10x28-170	14	29,33	410
Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
EC 7520/A M12x37-145	4			EC 7520/A M12x37-155	75	20	M12x37	4			EC 7520/A M12x37-170	4		
EC 7525/A M12x37-145	5			EC 7525/A M12x37-155	75	25	M12x37	5			EC 7525/A M12x37-170	5		
EC 7530/A M12x37-145	6	61,48	370	EC 7530/A M12x37-155	75	30	M12x37	6	96,16	580	EC 7530/A M12x37-170	6	155,48	930
EC 7535/A M12x37-145	7	37,6	265	EC 7535/A M12x37-155	75	35	M12x37	7	65,8	470	EC 7535/A M12x37-170	7	103,4	720
EC 7540/A M12x37-145	8	33,1	260	EC 7540/A M12x37-155	75	40	M12x37	8	68,4	550	EC 7540/A M12x37-170	8	88,2	705
EC 7545/A M12x37-145	9			EC 7545/A M12x37-155	75	45	M12x37	9			EC 7545/A M12x37-170	9		
EC 7550/A M12x37-145	10	26,13	260	EC 7550/A M12x37-155	75	50	M12x37	10	47,1	470	EC 7550/A M12x37-170	10	68,36	680
EC 7560/A M12x37-145	11	18,9	200	EC 7560/A M12x37-155	75	55	M12x37	11	36,4	400	EC 7560/A M12x37-170	11	48,24	530
EC 7520/A M16x42-145	4			EC 7520/A M16x42-155	75	20	M16x42	4			EC 7520/A M16x42-170	4		
EC 7525/A M16x42-145	5			EC 7525/A M16x42-155	75	25	M16x42	5			EC 7525/A M16x42-170	5		
EC 7530/A M16x42-145	6	61,48	370	EC 7530/A M16x42-155	75	30	M16x42	6	96,16	580	EC 7530/A M16x42-170	6	155,48	930
EC 7535/A M16x42-145	7	37,6	265	EC 7535/A M16x42-155	75	35	M16x42	7	65,8	470	EC 7535/A M16x42-170	7	103,4	720
EC 7540/A M16x42-145	8	33,1	260	EC 7540/A M16x42-155	75	40	M16x42	8	68,4	550	EC 7540/A M16x42-170	8	88,2	705
EC 7545/A M16x42-145	9			EC 7545/A M16x42-155	75	45	M16x42	9			EC 7545/A M16x42-170	9		
EC 7550/A M16x42-145	10	26,13	260	EC 7550/A M16x42-155	75	50	M16x42	10	47,1	470	EC 7550/A M16x42-170	10	68,36	680
EC 7560/A M16x42-145	11	26,29	200	EC 7560/A M16x42-155	75	55	M16x42	11	40,83	400	EC 7560/A M16x42-170	11	59,43	530
Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
EC 8030/A M14x37-145	6	98,14	590	EC 8030/A M14x37-155	80	30	M14x37	6	130,2	780	EC 8030/A M14x37-170	6	190	1140
EC 8040/A M14x37-145	8	51,79	415	EC 8040/A M14x37-155	80	40	M14x37	8	70,88	570	EC 8040/A M14x37-170	8	105,37	850
EC 8050/A M14x37-145	10	43,24	430	EC 8050/A M14x37-155	80	50	M14x37	10	59,38	560	EC 8050/A M14x37-170	10	88,52	800
EC 8060/A M14x37-145	12			EC 8060/A M14x37-155	80	60	M14x37	12			EC 8060/A M14x37-170	12		
EC 8080/A M14x37-145	16	17,77	285	EC 8080/A M14x37-155	80	80	M14x37	16	24,91	400	EC 8080/A M14x37-170	16	37,98	610
Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
EC 10030/A M16x42-145	6	273,91	1645	EC 10030/A M16x42-155	100	30	M16x42	6	309,1	1855	EC 10030/A M16x42-170	6	443,12	2660
EC 10040/A M16x42-145	8	91,61	740	EC 10040/A M16x42-155	100	40	M16x42	8	181,72	1450	EC 10040/A M16x42-170	8	270,91	2170
EC 10050/A M16x42-145	10	59,52	600	EC 10050/A M16x42-155	100	50	M16x42	10	123,97	1240	EC 10050/A M16x42-170	10	151,96	1510
EC 10055/A M16x42-145	11	49,29	540	EC 10055/A M16x42-155	100	55	M16x42	11	87,89	970	EC 10055/A M16x42-170	11	123,97	1364
EC 10060/A M16x42-145	12			EC 10060/A M16x42-155	100	60	M16x42	12			EC 10060/A M16x42-170	12		
EC 10075/A M16x42-145	15	28,85	430	EC 10075/A M16x42-155	100	75	M16x42	15	53	795	EC 10075/A M16x42-170	15	88,4	1326
EC 100100/A M16x42-145	20			EC 100100/A M16x42-155	100	100	M16x42	20			EC 100100/A M16x42-170	20		
EC 10030/A M20x45-145	6	273,91	1645	EC 10030/A M20x45-155	100	30	M20x45	6	309,1	1855	EC 10030/A M20x45-170	6	443,12	2660
EC 10040/A M20x45-145	8	91,61	740	EC 10040/A M20x45-155	100	40	M20x45	8	181,72	1455	EC 10040/A M20x45-170	8	270,91	2170
EC 10050/A M20x45-145	10	59,52	600	EC 10050/A M20x45-155	100	50	M20x45	10	123,97	1240	EC 10050/A M20x45-170	10	151,96	1510
EC 10055/A M20x45-145	11	49,29	540	EC 10055/A M20x45-155	100	55	M20x45	11	87,89	970	EC 10055/A M20x45-170	11	123,97	1364
EC 10060/A M20x45-145	12			EC 10060/A M20x45-155	100	60	M20x45	12			EC 10060/A M20x45-170	12		
EC 10075/A M20x45-145	15	28,85	430	EC 10075/A M20x45-155	100	75	M20x45	15	53	795	EC 10075/A M20x45-170	15	88,4	1326
EC 100100/A M20x45-145	20			EC 100100/A M20x45-155	100	100	M20x45	20			EC 100100/A M20x45-170	20		
Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
EC 15050/A M20x45-145	10	141,68	1420	EC 15050/A M20x45-155	150	50	M16x42	10	247,34	2470	EC 15050/A M20x45-170	10	368,52	3690
EC 15060/A M20x45-145	12	132,43	1590	EC 15060/A M20x45-155	150	60	M16x42	12	231,2	2780	EC 15060/A M20x45-170	12	344,47	4130
EC 15075/A M20x45-145	15	81,18	1670	EC 15075/A M20x45-155	150	75	M16x42	15	115,15	2300	EC 15075/A M20x45-170	15	280	3730

EC typ B

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Forme	typ B DIN 95363 Forme B
Hardness	155 Standard 145 Soft 170 Hard
Tolérance	DIN 7715 M3

Reference	De-flectio	Stiffness Cz	Load	Reference	D	H	G	I2	Deflec-tion	Stiffness Cz	Load	Reference	De-flectio	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 0808/B M3x06-145	1,6	1,35	2,2	EC 0808/B M3x06-155	8	8	M3x6	3	1,6	3,79	6	EC 0808/B M3x06-170	1,6	5,61	9
EC 0810/B M3x06-145	2	1,1	2	EC 0810/B M3x06-155	8	10	M3x6	3	2	3	6	EC 0810/B M3x06-170	2	4,8	9
EC 1008/B M4x10-145	1,6			EC 1008/B M4x10-155	10	8	M4x10	4	1,6			EC 1008/B M4x10-170	1,6		
EC 1010/B M4x10-145	2			EC 1010/B M4x10-155	10	10	M4x10	4	2	4,2	9	EC 1010/B M4x10-170	2	5,8	11
EC 1015/B M4x10-145	3	1,52	5	EC 1015/B M4x10-155	10	15	M4x10	4	3	3,33	9	EC 1015/B M4x10-170	3	4,66	11
EC 1020/B M4x10-145	4	1,33	5	EC 1020/B M4x10-155	10	20	M4x10	4	4	2,85	9	EC 1020/B M4x10-170	4	3,99	11
EC 1215/B M5x10-145	3			EC 1215/B M5x10-155	12	15	M5x10	5	2,4			EC 1215/B M5x10-170	0		
EC 1510/B M4x10-145	2	7,75	15	EC 1510/B M4x10-155	15	10	M4x10	4	2	14,32	28	EC 1510/B M4x10-170	2	21,45	40
EC 1515/B M4x10-145	3	2,67	8	EC 1515/B M4x10-155	15	15	M4x10	4	3	5,71	17	EC 1515/B M4x10-170	3	9,28	28
EC 1520/B M4x10-145	4	1,74	7	EC 1520/B M4x10-155	15	20	M4x10	4	4	4,46	17	EC 1520/B M4x10-170	4	7,99	28
EC 1525/B M4x10-145	5			EC 1525/B M4x10-155	15	25	M4x10	4	5			EC 1525/B M4x10-170	5		
EC 1530/B M4x10-145	6			EC 1530/B M4x10-155	15	30	M4x10	4	6			EC 1530/B M4x10-170	6		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 2010/B M6x18-145	2	11,78	25	EC 2010/B M6x18-155	20	10	M6x18	6	2	20	40	EC 2010/B M6x18-170	2	32,97	66
EC 2012/B M6x18-145	2,4	9,85	24	EC 2012/B M6x18-155	20	12	M6x18	6	2,4	16,18	38	EC 2012/B M6x18-170	2,4	25,39	60
EC 2015/B M6x18-145	3	7,91	20	EC 2015/B M6x18-155	20	15	M6x18	6	3	12,41	38	EC 2015/B M6x18-170	3	17,82	54
EC 2020/B M6x18-145	4	4,75	19	EC 2020/B M6x18-155	20	20	M6x18	6	4	7,92	32	EC 2020/B M6x18-170	4	11,64	46
EC 2025/B M6x18-145	5	3,42	17	EC 2025/B M6x18-155	20	25	M6x18	6	5	5,63	28	EC 2025/B M6x18-170	5	8,03	40
EC 2030/B M6x18-145	6	3,16	16	EC 2030/B M6x18-155	20	30	M6x18	6	6	4,46	26	EC 2030/B M6x18-170	6	6,81	38
EC 2040/B M6x18-145	8			EC 2040/B M6x18-155	20	40	M6x18	6	8			EC 2040/B M6x18-170	8		
EC 2015/B M8x23-145	3	7,91	20	EC 2015/B M8x23-155	20	15	M8x23	8	3	12,41	38	EC 2015/B M8x23-170	3	17,82	54
EC 2020/B M8x23-145	4	4,75	19	EC 2020/B M8x23-155	20	20	M8x23	8	4	7,92	32	EC 2020/B M8x23-170	4	11,64	46
EC 2025/B M8x23-145	5	3,42	17	EC 2025/B M8x23-155	20	25	M8x23	8	5	5,63	28	EC 2025/B M8x23-170	5	8,03	40
EC 2030/B M8x23-145	6	3,16	16	EC 2030/B M8x23-155	20	30	M8x23	8	6	4,46	26	EC 2030/B M8x23-170	6	6,81	38
EC 2040/B M8x23-145	8			EC 2040/B M8x23-155	20	40	M8x23	8	8			EC 2040/B M8x23-170	8		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 2510/B M6x18-145	2	38,54	80	EC 2510/B M6x18-155	25	10	M6 x18	6	2	64,86	130	EC 2510/B M6x18-170	2	92,78	190
EC 2515/B M6x18-145	3	11,62	40	EC 2515/B M6x18-155	25	15	M6 x18	6	3	21,15	65	EC 2515/B M6x18-170	3	27,26	85
EC 2520/B M6x18-145	4	8,07	35	EC 2520/B M6x18-155	25	20	M6 x18	6	4	13,05	53	EC 2520/B M6x18-170	4	18,57	75
EC 2522/B M6x18-145	4,4			EC 2522/B M6x18-155	25	22	M6 x18	6	4,4			EC 2522/B M6x18-170	4,4		
EC 2525/B M6x18-145	5	5,55	30	EC 2525/B M6x18-155	25	25	M6 x18	6	5	8,98	45	EC 2525/B M6x18-170	5	14,1	70
EC 2530/B M6x18-145	6	4,24	26	EC 2530/B M6x18-155	25	30	M6 x18	6	6	6,79	40	EC 2530/B M6x18-170	6	9,83	60
EC 2535/B M6x18-145	7	3,49	26	EC 2535/B M6x18-155	25	35	M6 x18	6	7	5,78	40	EC 2535/B M6x18-170	7	6,44	45
EC 2540/B M6x18-145	8			EC 2540/B M6x18-155	25	40	M6 x18	6	8			EC 2540/B M6x18-170	8		
EC 2520/B M8x23-145	4	8,07	33	EC 2520/B M8x23-155	25	20	M8x23	8	4	13,05	55	EC 2520/B M8x23-170	4	18,57	75
EC 2522/B M8x23-145	4,4			EC 2522/B M8x23-155	25	22	M8x23	8	4,4			EC 2522/B M8x23-170	4,4		
EC 2525/B M8x23-145	5	5,55	28	EC 2525/B M8x23-155	25	25	M8x23	8	5	8,98	45	EC 2525/B M8x23-170	5	14,1	70
EC 2530/B M8x23-145	6	4,24	25	EC 2530/B M8x23-155	25	30	M8x23	8	6	6,72	40	EC 2530/B M8x23-170	6	9,73	60
EC 2535/B M8x23-145	7	3,49	24	EC 2535/B M8x23-155	25	35	M8x23	8	7	5,78	35	EC 2535/B M8x23-170	7	6,44	45
EC 2540/B M8x23-145	8			EC 2540/B M8x23-155	25	40	M8x23	8	8			EC 2540/B M8x23-170	8		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 3015/B M8x23-145	3	25,27	77	EC 3015/B M8x23-155	30	15	M8x23	8	3	46,17	140	EC 3015/B M8x23-170	3	66,5	200
EC 3016/B M8x23-145	3,2	24,3	77	EC 3016/B M8x23-155	30	16	M8x23	8	3,2	43,2	135	EC 3016/B M8x23-170	3,2	63,2	200
EC 3020/B M8x23-145	4	12,73	50	EC 3020/B M8x23-155	30	20	M8x23	8	4	19,3	80	EC 3020/B M8x23-170	4	28,4	114
EC 3022/B M8x23-145	4,4			EC 3022/B M8x23-155	30	22	M8x23	8	4,4			EC 3022/B M8x23-170	4,4		
EC 3025/B M8x23-145	5	8,6	43	EC 3025/B M8x23-155	30	25	M8x23	8	5	13,04	65	EC 3025/B M8x23-170	5	19,34	97
EC 3030/B M8x23-145	6	5,84	40	EC 3030/B M8x23-155	30	30	M8x23	8	6	10,14	60	EC 3030/B M8x23-170	6	14,8	90
EC 3035/B M8x23-145	7	5,32	40	EC 3035/B M8x23-155	30	35	M8x23	8	7	9,12	58	EC 3035/B M8x23-170	7	12,56	85
EC 3040/B M8x23-145	8	4,85	38	EC 3040/B M8x23-155	30	40	M8x23	8	8	8,86	53	EC 3040/B M8x23-170	8	12	80
EC 3045/B M8x23-145	9	4,28	38	EC 3045/B M8x23-155	30	45	M8x23	8	9	8	53	EC 3045/B M8x23-170	9	11,7	75
EC 3050/B M8x23-145	10			EC 3050/B M8x23-155	30	50	M8x23	8	10			EC 3050/B M8x23-170	10		

EC typ B

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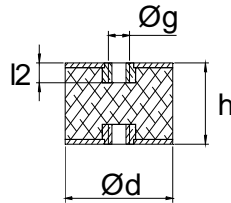
Reference	De-flectio			Reference	D	H	G	I2	Deflec-tion			Reference	Deflec-tion		
	n	Stiffness Cz	Load						Stiffness Cz	Load	Stiffness Cz		Load	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 3020/B M10x28-145	4	12,73	50	EC 3020/B M10x28-155	30	20	M10x28	10	4	19,3	80	EC 3020/B M10x28-170	4	28,4	114
EC 3022/B M10x28-145	4,4			EC 3022/B M10x28-155	30	22	M10x28	10	4,4		0	EC 3022/B M10x28-170	4,4		0
EC 3025/B M10x28-145	5	8,6	43	EC 3025/B M10x28-155	30	25	M10x28	10	5	13,04	65	EC 3025/B M10x28-170	5	19,34	97
EC 3030/B M10x28-145	6	5,84	40	EC 3030/B M10x28-155	30	30	M10x28	10	6	10,14	60	EC 3030/B M10x28-170	6	14,8	90
EC 3035/B M10x28-145	7	5,32	40	EC 3035/B M10x28-155	30	35	M10x28	10	7	9,12	58	EC 3035/B M10x28-170	7	12,56	85
EC 3040/B M10x28-145	8	4,85	38	EC 3040/B M10x28-155	30	40	M10x28	10	8	8,86	53	EC 3040/B M10x28-170	8	12	80
EC 3045/B M10x28-145	9	4,28	38	EC 3045/B M10x28-155	30	45	M10x28	10	9	8	53	EC 3045/B M10x28-170	9	11,7	75
EC 3050/B M10x28-145	10			EC 3050/B M10x28-155	30	50	M10x28	10	10			EC 3050/B M10x28-170	10		
EC 3025/B M12x37-145	5	8,6	43	EC 3025/B M12x37-155	30	25	M12x37	12	5	13,04	65	EC 3025/B M12x37-170	5	19,34	97
EC 3030/B M12x37-145	6	5,84	40	EC 3030/B M12x37-155	30	30	M12x37	12	6	10,14	60	EC 3030/B M12x37-170	6	14,8	90
EC 3035/B M12x37-145	7	5,32	38	EC 3035/B M12x37-155	30	35	M12x37	12	7	9,12	53	EC 3035/B M12x37-170	7	12,56	85
EC 3040/B M12x37-145	8	4,84	38	EC 3040/B M12x37-155	30	40	M12x37	12	8	8,86	53	EC 3040/B M12x37-170	8	12	80
EC 4015/B M8x23-145	3	23,56	82	EC 4015/B M8x23-155	40	15	M8x18	8	3	43,32	130	EC 4015/B M8x23-170	3	82,65	250
EC 4020/B M8x23-145	4	21,38	80	EC 4020/B M8x23-155	40	20	M8x18	8	4	29,83	120	EC 4020/B M8x23-170	4	70,3	240
EC 4025/B M8x23-145	5	18,43	75	EC 4025/B M8x23-155	40	25	M8x18	8	5	26,41	118	EC 4025/B M8x23-170	5	55,67	235
EC 4030/B M8x23-145	6	12,22	70	EC 4030/B M8x23-155	40	30	M8x18	8	6	18,05	110	EC 4030/B M8x23-170	6	28,48	180
EC 4035/B M8x23-145	7	12,16	68	EC 4035/B M8x23-155	40	35	M8x18	8	7	16,91	105	EC 4035/B M8x23-170	7	25,65	170
EC 4040/B M8x23-145	8	7,94	65	EC 4040/B M8x23-155	40	40	M8x18	8	8	12,69	100	EC 4040/B M8x23-170	8	18,43	150
EC 4045/B M8x23-145	9	8,46	63	EC 4045/B M8x23-155	40	45	M8x18	8	9	11,88	95	EC 4045/B M8x23-170	9	18,11	133
EC 4050/B M8x23-145	10			EC 4050/B M8x23-155	40	50	M8x18	8	10			EC 4050/B M8x23-170	10		
EC 4020/B M10x28-145	4	21,38	80	EC 4020/B M10x28-155	40	20	M10x28	10	4	29,83	120	EC 4020/B M10x28-170	4	70,3	240
EC 4025/B M10x28-145	5	18,43	75	EC 4025/B M10x28-155	40	25	M10x28	10	5	26,41	118	EC 4025/B M10x28-170	5	55,67	235
EC 4030/B M10x28-145	6	12,22	70	EC 4030/B M10x28-155	40	30	M10x28	10	6	18,05	110	EC 4030/B M10x28-170	6	28,48	180
EC 4035/B M10x28-145	7	12,16	68	EC 4035/B M10x28-155	40	35	M10x28	10	7	16,91	105	EC 4035/B M10x28-170	7	25,65	170
EC 4040/B M10x28-145	8	7,94	65	EC 4040/B M10x28-155	40	40	M10x28	10	8	12,69	100	EC 4040/B M10x28-170	8	18,43	150
EC 4045/B M10x28-145	9	8,46	63	EC 4045/B M10x28-155	40	45	M10x28	10	9	11,88	95	EC 4045/B M10x28-170	9	18,11	133
EC 4050/B M10x28-145	10			EC 4050/B M10x28-155	40	50	M10x28	10	10			EC 4050/B M10x28-170	10		
EC 4020/B M12x37-145	5	21,38	80	EC 4020/B M12x37-155	40	20	M12x37	10	5	26,41	118	EC 4020/B M12x37-170	5	70,3	240
EC 4025/B M12x37-145	6	18,43	75	EC 4025/B M12x37-155	40	25	M12x37	10	6	18,05	110	EC 4025/B M12x37-170	6	55,67	235
EC 4030/B M12x37-145	7	12,22	70	EC 4030/B M12x37-155	40	30	M12x37	10	7	16,91	105	EC 4030/B M12x37-170	7	28,48	180
EC 4035/B M12x37-145	8	12,16	68	EC 4035/B M12x37-155	40	35	M12x37	10	8	12,69	100	EC 4035/B M12x37-170	8	25,65	170
EC 4040/B M12x37-145	9	7,94	65	EC 4040/B M12x37-155	40	40	M12x37	10	9	11,88	95	EC 4040/B M12x37-170	9	18,43	150
EC 5025/B M10x28-145	5	30,17	150	EC 5025/B M10x28-155	50	25	M10x28	10	5	54,95	275	EC 5025/B M10x28-170	5	80,1	400
EC 5030/B M10x28-145	6	20,68	125	EC 5030/B M10x28-155	50	30	M10x28	10	6	37,32	220	EC 5030/B M10x28-170	6	53,67	320
EC 5035/B M10x28-145	7	20,51	120	EC 5035/B M10x28-155	50	35	M10x28	10	7	28,32	200	EC 5035/B M10x28-170	7	42,65	300
EC 5040/B M10x28-145	8	13,82	110	EC 5040/B M10x28-155	50	40	M10x28	10	8	24,53	190	EC 5040/B M10x28-170	8	34,78	280
EC 5045/B M10x28-145	9	11,3	100	EC 5045/B M10x28-155	50	45	M10x28	10	9	18,05	170	EC 5045/B M10x28-170	9	29,33	265
EC 5050/B M10x28-145	10	9,79	95	EC 5050/B M10x28-155	50	50	M10x28	10	10	16,44	160	EC 5050/B M10x28-170	10	25,27	255
EC 5055/B M10x28-145	11			EC 5055/B M10x28-155	50	55	M10x28	10	11			EC 5055/B M10x28-170	11		
EC 5060/B M10x28-145	12			EC 5060/B M10x28-155	50	60	M10x28	10	12			EC 5060/B M10x28-170	12		
EC 5020/B M12x27-145	4	50,76	200	EC 5020/B M12x27-155	50	20	M12x27	10	4	94	380	EC 5020/B M12x27-170	4	151,43	605
EC 5025/B M12x27-145	5	30,17	150	EC 5025/B M12x27-155	50	25	M12x27	12	5	54,95	275	EC 5025/B M12x27-170	5	80,1	400
EC 5030/B M12x27-145	6	20,68	125	EC 5030/B M12x27-155	50	30	M12x27	12	6	37,32	220	EC 5030/B M12x27-170	6	53,67	320
EC 5035/B M12x27-145	7	20,51	120	EC 5035/B M12x27-155	50	35	M12x27	12	7	28,32	200	EC 5035/B M12x27-170	7	42,65	300
EC 5040/B M12x27-145	8	13,82	110	EC 5040/B M12x27-155	50	40	M12x27	12	8	24,53	190	EC 5040/B M12x27-170	8	34,78	280
EC 5045/B M12x27-145	9	11,3	100	EC 5045/B M12x27-155	50	45	M12x27	12	9	18,05	170	EC 5045/B M12x27-170	9	29,33	265
EC 5050/B M12x27-145	10	9,79	95	EC 5050/B M12x27-155	50	50	M12x27	12	10	16,44	160	EC 5050/B M12x27-170	10	25,27	255
EC 5055/B M12x27-145	11			EC 5055/B M12x27-155	50	55	M12x27	12	11			EC 5055/B M12x27-170	11		
EC 5060/B M12x27-145	12			EC 5060/B M12x27-155	50	60	M12x27	12	12			EC 5060/B M12x27-170	12		
EC 6025/B M10x28-145	5	66,88	335	EC 6025/B M10x28-155	60	25	M10x28	10	5	89,12	445	EC 6025/B M10x28-170	5	130,45	650
EC 6030/B M10x28-145	6	43,7	260	EC 6030/B M10x28-155	60	30	M10x28	10	6	59,19	355	EC 6030/B M10x28-170	6	87,79	525
EC 6035/B M10x28-145	7	32,21	225	EC 6035/B M10x28-155	60	35	M10x28	10	7	43,99	307	EC 6035/B M10x28-170	7	65,84	460
EC 6040/B M10x28-145	8	25,37	200	EC 6040/B M10x28-155	60	40	M10x28	10	8	35,06	280	EC 6040/B M10x28-170	8	52,73	420
EC 6045/B M10x28-145	9	21	189	EC 6045/B M10x28-155	60	45	M10x28	10	9	29,17	269	EC 6045/B M10x28-170	9	47,5	380
EC 6050/B M10x28-145	10	13,3	133	EC 6050/B M10x28-155	60	50	M10x28	10	10	19	190	EC 6050/B M10x28-170	10	44	370
EC 6025/B M12x37-145	5	66,88	335	EC 6025/B M12x37-155	60	25	M12x37	12	5	89,12	445	EC 6025/B M12x37-170	5	130,45	650
EC 6030/B M12x37-145	6	43,7	260	EC 6030/B M12x37-155	60	30	M12x37	12	6	59,19	355	EC 6030/B M12x37-170	6	87,79	525
EC 6035/B M12x37-145	7	32,21	225	EC 6035/B M12x37-155	60	35	M12x37	12	7	43,99	307	EC 6035/B M12x37-170	7	65,84	460
EC 6040/B M12x37-145	8	25,37	200	EC 6040/B M12x37-155	60	40	M12x37	12	8	35,06	280	EC 6040/B M12x37-170	8	52,73	420
EC 6045/B M12x37-145	9	21	189	EC 6045/B M12x37-155	60	45	M12x37	12	9	29,17	269	EC 6045/B M12x37-170	9	44,08	380
EC 6050/B M12x37-145	10	13,3	133	EC 6050/B M12x37-155	60	50	M12x37	12	10	19	190	EC 6050/B M12x37-170	10	47,5	370
EC 7025/B M10x28-145	5			EC 7025/B M10x28-155	70	25	M10x28	12	5			EC 7025/B M10x28-170	5		
EC 7030/B M10x28-145	6	67,18	400	EC 7030/B M10x28-155	70	30	M10x28	12	6	89,97	540	EC 7030/B M10x28-170	6	132,34	795
EC 7035/B M10x28-145	7	48,07	336	EC 7035/B M10x28-155	70	35	M10x28	12	7	65,27	456	EC 7035/B M10x28-170	7	96,9	680
EC 7040/B M10x28-145	8	37,24	300	EC 7040/B M10x28-155	70	40	M10x28	12	8	51,02	405	EC 7040/B M10x28-170	8	76,29	620
EC 7045/B M10x28-145	9			EC 7045/B M10x28-155	70	45	M10x28	12	9			EC 7045/B M10x28-170	9		
EC 7050/B M10x28-145	10	25,65	256	EC 7050/B M10x28-155	70	50	M10x28	12	10	35,53	355	EC 7050/B M10x28-170	10	45,03	450
EC 7060/B M10x28-145	12	20,1	240	EC 7060/B M10x28-155	70	60	M10x28	12	12	34,6	340	EC 7060/B M10x28-170	12	42	500
EC 7070/B M10x28-145	14	15,2	210	EC 7070/B M10x28-155	70	70	M10x28	12	14	18,05	250	EC 7070/B M10x28-170	14	29,64	410

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Reference	Deflection	Stiffness Cz	Load	Reference	D	H	G	I2	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 7525/B M12x37-145	5	88,35	44	EC 7525/B M12x37-155	75	25	M12x37	12	5	117,78	59	EC 7525/B M12x37-170	5	261,11	13
EC 7535/B M12x37-145	6	67,17	4	EC 7535/B M12x37-155	75	3	M12x37	12	6	89,97	54	EC 7535/B M12x37-170	6	132,34	795
EC 7535/B M12x37-145	7	38	265	EC 7535/B M12x37-155	75	35	M12x37	12	7	66,5	465	EC 7535/B M12x37-170	7	14,5	73
EC 7540/B M12x37-145	8	3,97	245	EC 7540/B M12x37-155	75	40	M12x37	12	8	59,85	48	EC 7540/B M12x37-170	8	84,55	675
EC 7545/B M12x37-145	9			EC 7545/B M12x37-155	75	45	M12x37	12	9			EC 7545/B M12x37-170	9		
EC 7550/B M12x37-145	1	26,4	264	EC 7550/B M12x37-155	75	50	M12x37	12	1	47,5	475	EC 7550/B M12x37-170	1	69,1	69
EC 7560/B M12x37-145	11	18,9	28	EC 7560/B M12x37-155	75	55	M12x37	12	11	36,4	4	EC 7560/B M12x37-170	11	52	57
EC 7570/B M12x37-145	14	15,51	215	EC 7570/B M12x37-155	75	70	M12x37	12	14	24,44	34	EC 7570/B M12x37-170	14	49,81	695
EC 7530/B M16x42-145	6	67,17	4	EC 7530/B M16x42-155	75	30	M16x42	16	6	89,97	54	EC 7530/B M16x42-170	6	132,34	795
EC 7535/B M16x42-145	7	38	265	EC 7535/B M16x42-155	75	35	M16x42	16	7	66,5	465	EC 7535/B M16x42-170	7	14,5	73
EC 7540/B M16x42-145	8	3,97	245	EC 7540/B M16x42-155	75	40	M16x42	16	8	59,85	48	EC 7540/B M16x42-170	8	84,55	675
EC 7545/B M16x42-145	9			EC 7545/B M16x42-155	75	45	M16x42	16	9			EC 7545/B M16x42-170	9		
EC 7550/B M16x42-145	1	26,4	264	EC 7550/B M16x42-155	75	50	M16x42	16	1	47,5	475	EC 7550/B M16x42-170	1	69,1	69
EC 7560/B M16x42-145	11	18,9	28	EC 7560/B M16x42-155	75	55	M16x42	16	11	36,4	4	EC 7560/B M16x42-170	11	52	57
EC 7570/B M16x42-145	14	15,51	215	EC 7570/B M16x42-155	75	70	M16x42	16	14	24,44	34	EC 7570/B M16x42-170	14	49,81	695
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 8030/B M14x37-145	6	99,18	595	EC 8030/B M14x37-155	8	30	M14x37	14	6	13,2	78	EC 8030/B M14x37-170	6	192,9	115
EC 8040/B M14x37-145	8	52,35	42	EC 8040/B M14x37-155	8	40	M14x37	14	8	71,64	58	EC 8040/B M14x37-170	8	16,5	85
EC 8050/B M14x37-145	1	43,7	43	EC 8050/B M14x37-155	8	50	M14x37	14	1	6	55	EC 8050/B M14x37-170	1	89,47	52
EC 8060/B M14x37-145	12			EC 8060/B M14x37-155	8	60	M14x37	14	12			EC 8060/B M14x37-170	12		
EC 8080/B M14x37-145	16	17,9	29	EC 8080/B M14x37-155	8	80	M14x37	14	16	25,2	4	EC 8080/B M14x37-170	16	38,38	615
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 10040/B M16x42-145	8	92,59	74	EC 10040/B M16x42-170	1	4	M16x42	16	8	147,85	118	EC 10040/B M16x42-170	8	273,82	219
EC 10050/B M16x42-145	1	6,2	6	EC 10050/B M16x42-170	1	5	M16x42	16	1	132,42	132	EC 10050/B M16x42-170	1	153,6	153
EC 10055/B M16x42-145	11	49,82	545	EC 10055/B M16x42-170	1	55	M16x42	16	11	88,83	98	EC 10055/B M16x42-170	11	125,3	138
EC 10060/B M16x42-145	12			EC 10060/B M16x42-170	1	6	M16x42	16	12			EC 10060/B M16x42-170	12		
EC 10070/B M16x42-145	14	34,1	48	EC 10070/B M16x42-170	1	7	M16x42	16	14	62,39	88	EC 10070/B M16x42-170	14	89,4	125
EC 10075/B M16x42-145	15	29,17	44	EC 10075/B M16x42-170	1	75	M16x42	16	15	54,15	81	EC 10075/B M16x42-170	15	78,19	117
EC 100100/B M16x42-145	2			EC 100100/B M16x42-170	1	1	M16x42	16	2			EC 100100/B M16x42-170	2		
EC 10040/B M20x45-145	8	92,59	74	EC 10040/B M20x45-170	1	4	M2x45	2	8	147,85	118	EC 10040/B M20x45-170	8	273,82	219
EC 10045/B M20x45-145	1	6,2	6	EC 10045/B M20x45-170	1	5	M2x45	2	1	132,42	132	EC 10045/B M20x45-170	1	153,6	153
EC 10050/B M20x45-145	11	49,82	545	EC 10050/B M20x45-170	1	55	M2x45	2	11	88,83	98	EC 10050/B M20x45-170	11	125,3	138
EC 10060/B M20x45-145	12			EC 10060/B M20x45-170	1	6	M2x45	2	12			EC 10060/B M20x45-170	12		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 15050/B M20x45-145	1	15,34	15	EC 155/B M20x45-170	15	5	M2x45	2	1	254,71	255	EC 155/B M20x45-170	1	378,42	39
EC 15060/B M20x45-145	12	133,86	14	EC 156/B M20x45-170	15	6	M2x45	2	12	233,68	245	EC 156/B M20x45-170	12	348,18	37
EC 15075/B M20x45-145	15	91,43	13	EC 1575/B M20x45-170	15	75	M2x45	2	15	167,46	24	EC 1575/B M20x45-170	15	238	36
EC 150100/B M20x45-145	2	8,84	12	EC 151/B M20x45-170	15	1	M2x45	2	2	115,32	23	EC 151/B M20x45-170	2	27,95	345
EC 200100/B M20x45-145	2	13,97	28	EC 21/B M20x45-170	2	1	M2x45	2	2	19,37	38	EC 21/B M20x45-170	2	27,54	54

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Form	typ C DIN 95363 Form C
Hardness	155 Standard 145 Soft 170 Hard
Tolerance	DIN 7715 M3

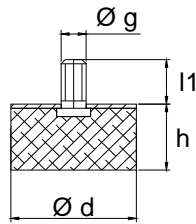
Reference	Deflec- tion	Stiffness Cz	Load	Reference	d	h	g	l2	Deflec- tion	Stiffness Cz	Load	Reference	Deflec- tion	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 0808/C M3-145	1,2	1,58	1,9	EC 0808/C M3-155	8	8	M3	3	1,2	4,43	5,3	EC 0808/C M3-170	6,49	5,55	6,66
EC 0810/C M3-145	3			EC 0810/C M3-155	10	10	M4	4	3			EC 0810/C M 3-170	3		
EC 1015/C M3-145	2,25	1,75	4	EC 1015/C M3-155	10	15	M4	4	2,25	3,85	8,6	EC 1015/C M3-170	2,25	5,39	12
EC 1020/C M4-145	3	1,54	4,6	EC 1210/C M3-155	10	20	M3	3	3	3,3	10	EC 1210/C M3-170	3	4,62	14
EC 1515/C M4-145	2,25	3,09	7	EC 1515/C M4-155	15	15	M4	4	2,25	6,61	14,9	EC 1515/C M4-170	2,25	10,75	24
EC 1520/C M4-145	3	2,01	6	EC 1520/C M4-155	15	20	M4	4	3	5,22	15,6	EC 1520/C M4-170	3	9,25	22
EC 1525/C M4-145	3,75			EC 1525/C M4-155	15	25	M4	4	3,75			EC 1525/C M4-170	3,75		
EC 1530/C M4-145	4,5	1,58	7,11	EC 1530/C M4-155	15	30	M4	4	4,5	2,7	12,1	EC 1530/C M4-170	4,5	3,81	17,1
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 2020/C M6-145	3	5,5	16	EC 2020/C M6-155	20	20	M6	6	3	9,17	28	EC 2020/C M6-170	3	13,48	40
EC 2025/C M6-145	3,75	3,96	15	EC 2025/C M6-155	20	25	M6	6	3,75	4,2	18	EC 2025/C M6-170	3,75	9,3	34
EC 2030/C M6-145	4,5	3,33	14	EC 2030/C M6-155	20	30	M6	6	3,36	3,69	13	EC 2030/C M6-170	4,5	7,17	32
EC 2040/C M6-145	6			EC 2040/C M6-155	20	40	M6	6	6			EC 2040/C M6-170	6		
EC 2025/C M8-145	0	3,96	15	EC 2025/C M6-155	20	25	M6	6	3,75	4,2	18	EC 2025/C M6-170	3,75	9,3	34
EC 2030/C M8-145	0	3,33	14	EC 2030/C M6-155	20	30	M6	6	4,5	9,3	13	EC 2030/C M6-170	4,5	7,17	32
EC 2040/C M8-145	0			EC 2040/C M6-155	20	40	M6	6	6			EC 2040/C M6-170	6		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 2520/C M6-145	3	9,45	28	EC 2520/C M6-155	25	20	M6	6	3	15,27	46	EC 2520/C M6-170	3	21,73	66
EC 2525/C M6-145	3,75	6,49	24	EC 2525/C M6-155	25	25	M6	6	3,75	10,51	40	EC 2525/C M6-170	3,75	16,5	62
EC 2530/C M6-145	4,5	4,97	22	EC 2530/C M6-155	25	30	M6	6	4,5	7,87	35	EC 2530/C M6-170	4,5	11,39	52
EC 2535/C M6-145	5,25	4,09	21	EC 2535/C M6-155	25	35	M6	6	5,25	6,77	32	EC 2535/C M6-170	5,25	7,54	40
EC 2540/C M6-145	6			EC 2540/C M6-155	25	40	M6	6	6			EC 2540/C M6-170	6		
EC 2525/C M8-145	3,75	6,49	24	EC 2525/C M6-155	25	25	M6	6	3,75	10,51	40	EC 2525/C M6-170	3,75	16,5	62
EC 2530/C M8-145	4,5	4,97	22	EC 2530/C M6-155	25	30	M6	6	4,5	7,87	35	EC 2530/C M6-170	4,5	11,39	52
EC 2535/C M8-145	5,25	4,09	21	EC 2535/C M6-155	25	35	M6	6	5,25	6,77	32	EC 2535/C M6-170	5,25	7,54	40
EC 2540/C M8-145	6			EC 2540/C M6-155	25	40	M6	6	6			EC 2540/C M6-170	6		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 3025/C M8-145	3,75	9,85	37	EC 3025/C M8-155	30	25	M8	8	3,75	15,1	60	EC 3025/C M8-170	3,75	22,4	90
EC 3030/C M8-145	4,5	6,77	30	EC 3030/C M8-155	30	30	M8	8	4,5	11,74	55	EC 3030/C M8-170	4,5	17,09	85
EC 3035/C M8-145	5,25	6,16	32	EC 3035/C M8-155	30	35	M8	8	5,25	10,56	53	EC 3035/C M8-170	5,25	14,52	80
EC 3040/C M8-145	6	5,61	30	EC 3040/C M8-155	30	40	M8	8	6	9,9	50	EC 3040/C M8-170	6	13,86	75
EC 3045/C M8-145	6,75	4,95	28	EC 3045/C M8-155	30	45	M8	8	6,75	9,24	48	EC 3045/C M8-170	6,75	13,53	70
EC 3050/C M8-145	7,5			EC 3050/C M8-155	30	50	M8	8	7,5			EC 3050/C M8-170	7,5		
EC 3030/C M10-145	4,5	6,77	30	EC 3030/C M10-155	30	30	M10	10	4,5	11,74	55	EC 3030/C M10-170	4,5	17,09	85
EC 3035/C M10-145	5,25	6,16	32	EC 3035/C M10-155	30	35	M10	10	5,25	10,56	53	EC 3035/C M10-170	5,25	14,52	80
EC 3040/C M10-145	6	5,61	30	EC 3040/C M10-155	30	40	M10	10	6	9,9	50	EC 3040/C M10-170	6	13,86	75
EC 3045/C M10-145	6,75	4,95	28	EC 3045/C M10-155	30	45	M10	10	6,75	9,24	48	EC 3045/C M10-170	6,75	13,53	70
EC 3050/C M10-145	7,5			EC 3050/C M10-155	30	50	M10	10	7,5			EC 3050/C M10-170	7,5		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 4025/C M8-145	3,75	21,34	80	EC 4025/C M8-155	40	25	M8	8	3,75	30,58	115	EC 4025/C M8-170	3,75	64,46	240
EC 4030/C M8-145	4,5	14,08	70	EC 4030/C M8-155	40	30	M8	8	4,5	19,58	100	EC 4030/C M8-170	4,5	30	165
EC 4035/C M8-145	5,25	12,05	66	EC 4035/C M8-155	40	35	M8	8	5,25	19,2	90	EC 4035/C M8-170	5,25	29,7	155
EC 4040/C M8-145	6	8,37	60	EC 4040/C M8-155	40	40	M8	8	6	13,37	85	EC 4040/C M8-170	6	21	126
EC 4045/C M8-145	6,75	8	54	EC 4045/C M8-155	40	45	M8	8	6,75	13,75	76	EC 4045/C M8-170	6,75	19,41	120
EC 4050/C M8-145	7,5			EC 4050/C M8-155	40	50	M8	8	7,5			EC 4050/C M8-170	7,5		
EC 4030/C M10-145	4,5	14,08	70	EC 4030/C M10-155	40	30	M10	10	4,5	19,58	100	EC 4030/C M10-170	4,5	30	165
EC 4035/C M10-145	5,25	12,05	66	EC 4035/C M10-155	40	35	M10	10	5,25	19,2	90	EC 4035/C M10-170	5,25	29,7	155
EC 4040/C M10-145	6	8,37	60	EC 4040/C M10-155	40	40	M10	10	6	13,37	85	EC 4040/C M10-170	6	21	126
EC 4045/C M10-145	6,75	8	54	EC 4045/C M10-155	40	45	M10	10	6,75	13,75	76	EC 4045/C M10-170	6,75	19,41	120
EC 4050/C M10-145	7,5		0	EC 4050/C M10-155	40	50	M10	10	7,5			EC 4050/C M10-170	7,5		

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Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	I2	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 6030/C M10-145	4,5	50,6	228	EC 6030/C M10-155	60	30	M10	10	4,5	68,53	310	EC 6030/C M10-170	4,5	101,64	600
EC 6035/C M10-145	5,25	37,29	195	EC 6035/C M10-155	60	35	M10	10	5,25	50,93	270	EC 6035/C M10-170	5,25	76,23	530
EC 6040/C M10-145	6	29,37	176	EC 6040/C M10-155	60	40	M10	10	6	40,59	245	EC 6040/C M10-170	6	61,05	490
EC 6045/C M10-145	6,75	24,31	165	EC 6045/C M10-155	60	45	M10	10	6,75	33,77	228	EC 6045/C M10-170	6,75	51,04	460
EC 6050/C M10-145	7,5	15,4	115	EC 6050/C M10-155	60	50	M10	10	7,5	22	165	EC 6050/C M10-170	7,5	55	410
EC 6040/C M12-145	6	29,37	176	EC 6040/C M12-155	60	40	M12	10	6	40,59	245	EC 6040/C M12-170	6	61,05	490
EC 6045/C M12-145	6,75	24,31	165	EC 6045/C M12-155	60	45	M12	10	6,75	33,77	228	EC 6045/C M12-170	6,75	51,04	460
EC 6050/C M12-145	7,5	15,4	115	EC 6050/C M12-155	60	50	M12	10	7,5	22	165	EC 6050/C M12-170	7,5	55	410
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 7030/C M10-145	4,5	77,77	350	EC 7030/C M10-155	70	30	M10	10	4,5	104,17	625	EC 7030/C M10-170	4,5	153,23	920
EC 7035/C M10-145	5,25	55,66	290	EC 7035/C M10-155	70	35	M10	10	5,25	75,57	530	EC 7035/C M10-170	5,25	112,2	785
EC 7040/C M10-145	6	43,12	260	EC 7040/C M10-155	70	40	M10	10	6	59,07	480	EC 7040/C M10-170	6	88,33	710
EC 7045/C M10-145	6,75			EC 7045/C M10-155	70	45	M10	10	6,75			EC 7045/C M10-170	6,75		
EC 7050/C M10-145	7,5	29,7	230	EC 7050/C M10-155	70	50	M10	10	7,5	41,14	410	EC 7050/C M10-170	7,5	52,14	520
EC 7060/C M10-145	9	20,2	180	EC 7060/C M10-155	70	60	M10	10	9	24,2	290	EC 7060/C M10-170	9	42,9	510
EC 7070/C M10-145	10,5	17,6	170	EC 7070/C M10-155	70	70	M10	10	10,5	20,9	280	EC 7070/C M10-170	10,5	39,8	480
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 7530/C M12-145	4,5	71,94	325	EC 7530/C M12-155	75	30	M12	12	4,5	112,53	505	EC 7530/C M12-170	4,5	181,94	1090
EC 7535/C M12-145	5,25	44	260	EC 7535/C M12-155	75	35	M12	12	5,25	77	400	EC 7535/C M12-170	5,25	121	850
EC 7540/C M12-145	6	39,6	240	EC 7540/C M12-155	75	40	M12	12	6	67,1	390	EC 7540/C M12-170	6	99,22	790
EC 7545/C M12-145	6,75			EC 7545/C M12-155	75	45	M12	12	6,75			EC 7545/C M12-170	6,75		
EC 7550/C M12-145	7,5	27,82	210	EC 7550/C M12-155	75	50	M12	12	7,5	50,09	360	EC 7550/C M12-170	7,5	72,77	730
EC 7560/C M12-145	8,25			EC 7560/C M12-155	75	55	M12	12	8,25			EC 7560/C M12-170	8,25		0
EC 7570/C M12-145	10,5	14,85	160	EC 7570/C M12-155	75	70	M12	12	10,5	23,4	240	EC 7570/C M12-170	10,5	47,7	670
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 7530/C M16-145	4,5	71,94	325	EC 7530/C M16-155	75	30	M16	16	4,5	112,53	505	EC 7530/C M16-170	4,5	181,94	1090
EC 7535/C M16-145	5,25	44	260	EC 7535/C M16-155	75	35	M16	16	5,25	77	400	EC 7535/C M16-170	5,25	121	850
EC 7540/C M16-145	6	39,6	240	EC 7540/C M16-155	75	40	M16	16	6	67,1	390	EC 7540/C M16-170	6	99,22	790
EC 7545/C M16-145	6,75			EC 7545/C M16-155	75	45	M16	16	6,75			EC 7545/C M16-170	6,75		
EC 7550/C M16-145	7,5	27,82	210	EC 7550/C M16-155	75	50	M16	16	7,5	50,09	360	EC 7550/C M16-170	7,5	72,77	730
EC 7560/C M16-145	8,25			EC 7560/C M16-155	75	55	M16	16	8,25			EC 7560/C M16-170	8,25		0
EC 7570/C M16-145	10,5	14,85	160	EC 7570/C M16-155	75	70	M16	16	10,5	23,4	240	EC 7570/C M16-170	10,5	47,7	670
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 8040/C M14-145	6	60,6	410	EC 8040/C M14-155	80	40	M14	14	6	82,94	550	EC 8040/C M14-170	6	123,4	990
EC 8050/C M14-145	7,5	50,6	380	EC 8050/C M14-155	80	50	M14	14	7,5	69,49	525	EC 8050/C M14-170	7,5	103,59	950
EC 8060/C M14-145	9			EC 8060/C M14-155	80	60	M14	14	9			EC 8060/C M14-170	9		
EC 8080/C M14-145	12	20,79	260	EC 8080/C M14-155	80	80	M14	14	12	29,16	360	EC 8080/C M14-170	12	44,44	710
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 10040/C M16-145	6	97,52	585	EC 10040/C M16-155	100	40	M16	16	6	193,45	1200	EC 10040/C M16-170	6	288,39	1730
EC 10050/C M16-145	7,5	63,36	470	EC 10050/C M16-155	100	50	M16	16	7,5	131,97	990	EC 10050/C M16-170	7,5	161,77	1215
EC 10055/C M16-145	8,25	52,57	430	EC 10055/C M16-155	100	55	M16	16	8,25	93,56	800	EC 10055/C M16-170	8,25	131,97	1090
EC 10060/C M16-145	9			EC 10060/C M16-155	100	60	M16	16	9			EC 10060/C M16-170	9		
EC 10070/C M16-145	10,5	35,84	380	EC 10070/C M16-155	100	70	M16	16	10,5	65,74	680	EC 10070/C M16-170	10,5	94,05	980
EC 10075/C M16-145	11,25	30,39	350	EC 10075/C M16-155	100	75	M16	16	11,25	56,43	630	EC 10075/C M16-170	11,25	81,48	920
EC 100100/C M16-145	15			EC 100100/C M16-155	100	100	M16	16	15			EC 100100/C M16-170	15		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 10040/C M20-145	6	97,52	585	EC 10040/C M20-155	100	40	M20	20	6	193,45	1200	EC 10040/C M20-170	6	288,39	1730
EC 10050/C M20-145	7,5	63,36	470	EC 10050/C M20-155	100	50	M20	20	7,5	131,97	990	EC 10050/C M20-170	7,5	161,77	1215
EC 10055/C M20-145	8,25	52,57	430	EC 10055/C M20-155	100	55	M20	11	8,25	93,56	800	EC 10055/C M20-170	8,25	131,97	1090
EC 10060/C M20-145	9			EC 10060/C M20-155	100	60	M20	12	9			EC 10060/C M20-170	9		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 15050/C M20-145	7,5	156,62	1170	EC 15050/C M20-155	150	50	M20	20	7,5	253,47	2530	EC 15050/C M20-170	7,5	375,08	3750
EC 15060/C M20-145	9	140,98	1265	EC 15060/C M20-155	150	60	M20	20	9	246,11	2400	EC 15060/C M20-170	9	366,7	3600
EC 15075/C M20-145	11,25	85,14	960	EC 15075/C M20-155	150	75	M20	20	11,25	122,76	1850	EC 15075/C M20-170	11,25	221,36	3300
EC 150100/C M20-145	15	80,84	930	EC 150100/C M20-155	150	100	M20	20	15	115,32	1750	EC 150100/C M20-170	15	207,95	4100
EC 200100/C M20-145	15	110,68	1660	EC 200100/C M20-155	200	100	M20	20	15	202,65	4050	EC 200100/C M20-170	15	287,99	5700

EC typ D

MALE - RUBBER



Forme	typ D DIN 95364 Forme D
Hardness	155 Standard 145 Soft 170 Hard
Tolérance	DIN 7715 M3

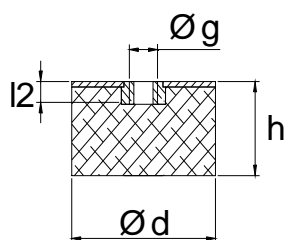
Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g*l1	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard				mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 0607/D M3x06 -145	1,6			EC 0606/D M3x06 -155	6	8	M3x6	1,6			EC 0606/D M3x06 -170	1,6		0
EC 0806/D M3x06-145	1,2	2,66	3,2	EC 0806/D M3x06-155	8	6	M3x6	1,2	4,94	6	EC 0806/D M3x06-170	1,2	8,74	12
EC 0808/D M3x06-145	1,6	1,8	2,9	EC 0808/D M3x06-155	8	8	M3x6	1,6	3,6	5,8	EC 0808/D M3x06-170	1,6	7,29	10
EC 0810/D M3x06-145	2			EC 0810/D M3x06-155	8	10	M3x6	2			EC 0810/D M3x06-170	2		
EC 1006/D M3x06-145	1,2			EC 1006/D M3x06-155	10	6	M4x10	1,2			EC 1006/D M3x06-170	1,2		
EC 1008/D M3x06-145	1,6			EC 1008/D M3x06-155	10	8	M4x10	1,6			EC 1008/D M3x06-170	1,6		
EC 1010/D M3x06-145	2	1,89	3,8	EC 1010/D M3x06-155	10	10	M4x10	2	3,8	8	EC 1010/D M3x06-170	2	5,23	15
EC 1015/D M3x06-145	3	1,62	3,8	EC 1015/D M3x06-155	10	15	M4x10	3	3,42	8	EC 1015/D M3x06-170	3	4,56	13
EC 1020/D M3x06-145	4	1,44	3,8	EC 1015/D M3x06-155	10	15	M4x10	3	3,14	8	EC 1015/D M3x06-170	3	4,56	13
EC 1505/D M4x10-145	1			EC 1505/D M4x10-155	15	5	M4x10	1			EC 1505/D M4x10-170	1		
EC 1510/D M4x10-145	2	8,18	16	EC 1510/D M4x10-155	15	10	M4x10	2	11,66	23	EC 1510/D M4x10-170	2	17,3	35
EC 1515/D M4x10-145	3	3,42	10	EC 1515/D M4x10-155	15	15	M4x10	3	4,83	15	EC 1515/D M4x10-170	3	7,36	22
EC 1520/D M4x10-145	4	2,35	9,4	EC 1520/D M4x10-155	15	20	M4x10	4	3,85	14	EC 1520/D M4x10-170	4	5,64	20
EC 1525/D M4x10-145	5			EC 1525/D M4x10-155	15	25	M4x10	5			EC 1525/D M4x10-170	5		
EC 1530/D M4x10-145	6	1,33	8	EC 1530/D M4x10-155	15	30	M4x10	6	2,57	12	EC 1530/D M4x10-170	6	3,71	18
EC 1510/D M6x18-145	2	8,18	16	EC 1510/D M6x18-155	15	10	M6x18	2	11,66	23	EC 1510/D M6x18-170	2	17,3	35
EC 1515/D M6x18-145	3	3,42	10	EC 1515/D M6x18-155	15	15	M6x18	3	4,83	15	EC 1515/D M6x18-170	3	7,36	22
EC 1520/D M6x18-145	4	2,35	9,4	EC 1520/D M6x18-155	15	20	M6x18	4	3,85	10	EC 1520/D M6x18-170	4	5,64	20
Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g*l1	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard				mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 2005/D M6x18-145	2	29,49	58	EC 2005/D M6x18-155	20	5	M6x18	2	41	80	EC 2005/D M6x18-170	2	58,1	116
EC 2008/D M6x18-145	1,6	24,53	40	EC 2008/D M6x18-155	20	8	M6x18	1,6	32,53	50	EC 2008/D M6x18-170	1,6	47,47	96
EC 2010/D M6x18-145	2,2	11,89	26	EC 2010/D M6x18-155	20	11	M6x18	2,2	16,17	35	EC 2010/D M6x18-170	2,2	24,16	53
EC 2012/D M6x18-145	2,4	10,06	24	EC 2012/D M6x18-155	20	12	M6x18	2,4	13,82	33	EC 2012/D M6x18-170	3	20,68	62
EC 2015/D M6x18-145	3	7	21	EC 2015/D M6x18-155	20	15	M6x18	3	9,59	28	EC 2015/D M6x18-170	3	14,48	45
EC 2020/D M6x18-145	4	4,61	19	EC 2020/D M6x18-155	20	20	M6x18	4	5,7	25	EC 2020/D M6x18-170	4	9,78	40
EC 2025/D M6x18-145	5	3,48	17	EC 2025/D M6x18-155	20	25	M6x18	5	4,79	22	EC 2025/D M6x18-170	5	7,43	38
EC 2030/D M6x18-145	6	2,73	16	EC 2030/D M6x18-155	20	30	M6x18	6	3,96	20	EC 2030/D M6x18-170	6	6,02	35
EC 2040/D M6x18-145	8		0	EC 2040/D M6x18-155	20	40	M6x18	8			EC 2040/D M6x18-170	8		
EC 2005/D M8x23-145	1	29,49	58	EC 2005/D M8x23-155	20	5	M8x23	1	41	47	EC 2005/D M8x23-170	1	58,1	60
EC 2008/D M8x23-145	1,6	24,53	40	EC 2008/D M8x23-155	20	8	M8x23	1,6	32,53	45	EC 2008/D M8x23-170	1,6	47,47	55
EC 2010/D M8x23-145	2	11,89	26	EC 2010/D M8x23-155	20	10	M8x23	2	16,17	38	EC 2010/D M8x23-170	2	24,16	50
EC 2012/D M8x23-145	2,4	10,06	24	EC 2012/D M8x23-155	20	12	M8x23	2,4	13,82	33	EC 2012/D M8x23-170	2,4	20,68	49
EC 2015/D M8x23-145	3	7	21	EC 2015/D M8x23-155	20	15	M8x23	3	9,59	28	EC 2015/D M8x23-170	3	14,48	44
EC 2020/D M8x23-145	4	4,61	19	EC 2020/D M8x23-155	20	20	M8x23	4	5,7	25	EC 2020/D M8x23-170	4	9,78	40
EC 2025/D M8x23-145	5	3,48	17	EC 2025/D M8x23-155	20	25	M8x23	5	4,79	23	EC 2025/D M8x23-170	5	7,43	37
EC 2030/D M8x23-145	6	2,73	16	EC 2030/D M8x23-155	20	30	M8x23	6	3,96	21	EC 2030/D M8x23-170	6	6,02	36
EC 2040/D M8x23-145	8			EC 2040/D M8x23-155	20	40	M8x23	8			EC 2040/D M8x23-170	8		
Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g*l1	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard				mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 2510/D M6x18-145	2	30,64	62	EC 2510/D M6x18-155	25	10	M6 x18	2	40,7	82	EC 2510/D M6x18-170	2	59,41	120
EC 2515/D M6x18-145	3	12,6	38	EC 2515/D M6x18-155	25	15	M6 x18	3	17,3	52	EC 2515/D M6x18-170	3	25,85	80
EC 2520/D M6x18-145	4	7,9	32	EC 2520/D M6x18-155	25	20	M6 x18	4	10,9	45	EC 2520/D M6x18-170	4	16,56	66
EC 2526/D M6x18-145	5	5,73	30	EC 2525/D M6x18-155	25	25	M6 x18	5	9	45	EC 2525/D M6x18-170	5	12,22	61
EC 2530/D M6x18-145	6	4,56	28	EC 2530/D M6x18-155	25	30	M6 x18	6	6,4	38	EC 2530/D M6x18-170	6	9,78	58
EC 2535/D M6x18-145	7	3,29	23	EC 2535/D M6x18-155	25	35	M6 x18	7	4,89	35	EC 2535/D M6x18-170	7	7,52	52
EC 2540/D M6x18-145	8			EC 2540/D M6x18-155	25	40	M6 x18	8			EC 2540/D M6x18-170	8		
EC 2508/D M8x23-145	1,6			EC 2508/D M8x23-155	25	8	M8x23	1,6			EC 2508/D M8x23-170	1,6		
EC 2510/D M8x23-145	2	30,64	62	EC 2510/D M8x23-155	25	10	M8x23	2	40,7	82	EC 2510/D M8x23-170	2	59,41	120
EC 2515/D M8x23-145	3	12,6	38	EC 2515/D M8x23-155	25	15	M8x23	3	17,3	52	EC 2515/D M8x23-170	3	25,85	80
EC 2520/D M8x23-145	4	7,9	32	EC 2520/D M8x23-155	25	20	M8x23	4	10,9	45	EC 2520/D M8x23-170	4	16,56	66
EC 2525/D M8x23-145	5	5,73	30	EC 2525/D M8x23-155	25	25	M8x23	5	9	45	EC 2525/D M8x23-170	5	12,22	61
EC 2530/D M8x23-145	6	4,56	28	EC 2530/D M8x23-155	25	30	M8x23	6	6,4	38	EC 2530/D M8x23-170	6	9,78	58
EC 2535/D M8x23-145	7	3,29	23	EC 2535/D M8x23-155	25	35	M8x23	7	4,89	35	EC 2535/D M8x23-170	7	7,52	52
EC 2540/D M8x23-145	8			EC 2540/D M8x23-155	25	40	M8x23	8			EC 2540/D M8x23-170	8		

Reference	Deflection			Reference	d	h	g*11	Deflection			Reference	Deflection		
	mm	Stiffness Cz daN/mm	Load daN					Standard	mm	Stiffness Cz daN/mm		Load daN	Hard	mm
EC 3010/D M8x23-145	2	62,51	125	EC 3010/D M8x23-155	30	10	M8x23	2	81,5	160	EC 3010/D M8x23-170	2	112,84	225
EC 3015/D M8x23-145	3	21,62	65	EC 3015/D M8x23-155	30	15	M8x23	3	29,33	90	EC 3015/D M8x23-170	3	43,43	130
EC 3020/D M8x23-145	4	12,6	50	EC 3020/D M8x23-155	30	20	M8x23	4	16	74	EC 3020/D M8x23-170	4	26,13	105
EC 3025/D M8x23-145	5	9,31	46	EC 3025/D M8x23-155	30	25	M8x23	5	12,97	70	EC 3025/D M8x23-170	5	20	100
EC 3030/D M8x23-145	6	6,96	41	EC 3030/D M8x23-155	30	30	M8x23	6	8,7	65	EC 3030/D M8x23-170	6	14,76	85
EC 3035/D M8x23-145	7	5,73	40	EC 3035/D M8x23-155	30	35	M8x23	7	7,99	60	EC 3035/D M8x23-170	7	12,31	80
EC 3040/D M8x23-145	8	4,79	38	EC 3040/D M8x23-155	30	40	M8x23	8	6,77	55	EC 3040/D M8x23-170	8	10,34	80
EC 3045/D M8x23-145	9	4,23	36	EC 3045/D M8x23-155	30	45	M8x23	9	5,79	50	EC 3045/D M8x23-170	9	7,05	65
EC 3050/D M8x23-145	10			EC 3050/D M8x23-155	30	50	M8x23	10			EC 3050/D M8x23-170	10		
EC 3010/D M10x28-145	2	62,51	125	EC 3010/D M10x28-155	30	10	M10x28	2	81,5	160	EC 3010/D M10x28-170	2	112,84	225
EC 3015/D M10x28-145	3	21,62	65	EC 3015/D M10x28-155	30	15	M10x28	3	29,33	90	EC 3015/D M10x28-170	3	43,43	130
EC 3020/D M10x28-145	4	12,6	50	EC 3020/D M10x28-155	30	20	M10x28	4	16	74	EC 3020/D M10x28-170	4	26,13	105
EC 3025/D M10x28-145	5	9,31	46	EC 3025/D M10x28-155	30	25	M10x28	5	12,97	70	EC 3025/D M10x28-170	5	20	100
EC 3030/D M10x28-145	6	6,96	41	EC 3030/D M10x28-155	30	30	M10x28	6	8,7	65	EC 3030/D M10x28-170	6	14,76	85
EC 3035/D M10x28-145	7	5,73	40	EC 3035/D M10x28-155	30	35	M10x28	7	7,99	60	EC 3035/D M10x28-170	7	12,31	80
EC 3040/D M10x28-145	8	4,79	38	EC 3040/D M10x28-155	30	40	M10x28	8	6,77	55	EC 3040/D M10x28-170	8	10,34	80
EC 3045/D M10x28-145	9	4,23	36	EC 3045/D M10x28-155	30	45	M10x28	9	5,79	50	EC 3045/D M10x28-170	9	7,05	65
EC 3050/D M10x28-145	10			EC 3050/D M10x28-155	30	50	M10x28	10			EC 3050/D M10x28-170	10		
EC 3010/D M12x37-145	2	62,51	125	EC 3010/D M12x37-155	30	10	M10x28	2	81,5	160	EC 3010/D M10x28-170	2	112,84	225
EC 3015/D M12x37-145	3	21,62	65	EC 3015/D M12x37-155	30	15	M12x37	3	29,33	90	EC 3015/D M12x37-170	3	43,43	130
EC 3020/D M12x37-145	4	12,6	50	EC 3020/D M12x37-155	30	20	M12x37	4	16	74	EC 3020/D M12x37-170	4	26,13	105
EC 3025/D M12x37-145	5	9,31	46	EC 3025/D M12x37-155	30	25	M12x37	5	12,97	70	EC 3025/D M12x37-170	5	20	100
EC 3030/D M12x37-145	6	6,96	41	EC 3030/D M12x37-155	30	30	M12x37	6	8,7	65	EC 3030/D M12x37-170	6	14,76	85
EC 3035/D M12x37-145	7	5,73	40	EC 3035/D M12x37-155	30	35	M12x37	7	7,99	60	EC 3035/D M12x37-170	7	12,31	80
EC 3040/D M12x37-145	8	4,79	38	EC 3040/D M12x37-155	30	40	M12x37	8	6,77	55	EC 3040/D M12x37-170	8	10,34	80
EC 4010/D M8x23-145	2			EC 4010/D M8x23-155	40	10	M8x23	2			EC 4010/D M8x23-170	2		
EC 4015/D M8x23-145	3	31,5	110	EC 4015/D M8x23-155	40	15	M8x23	3	63,12	190	EC 4015/D M8x23-170	3	108	324
EC 4020/D M8x23-145	4	26,13	105	EC 4020/D M8x23-155	40	20	M8x23	4	35,44	140	EC 4020/D M8x23-170	4	52,64	210
EC 4025/D M8x23-145	5	17,52	90	EC 4025/D M8x23-155	40	25	M8x23	5	24,13	120	EC 4025/D M8x23-170	5	36,19	180
EC 4030/D M8x23-145	6	13,21	80	EC 4030/D M8x23-155	40	30	M8x23	6	18,33	110	EC 4030/D M8x23-170	6	27,73	170
EC 4035/D M8x23-145	7	10,62	75	EC 4035/D M8x23-155	40	35	M8x23	7	14,85	100	EC 4035/D M8x23-170	7	22,56	160
EC 4040/D M8x23-145	8	8,93	70	EC 4040/D M8x23-155	40	40	M8x23	8	12,05	97	EC 4040/D M8x23-170	8	18,99	150
EC 4045/D M8x23-145	9	7,71	67	EC 4045/D M8x23-155	40	45	M8x23	9	10,81	90	EC 4045/D M8x23-170	9	16,45	145
EC 4050/D M8x23-145	10			EC 4050/D M8x23-155	40	50	M8x23	10			EC 4050/D M8x23-170	10		
EC 4010/D M10x28-145	2			EC 4010/D M10x28-155	40	10	M10x28	2			EC 4010/D M10x28-170	2		
EC 4015/D M10x28-145	3	31,5	110	EC 4015/D M10x28-155	40	15	M10x28	3	63,12	190	EC 4015/D M10x28-170	3	81,17	324
EC 4020/D M10x28-145	4	26,13	105	EC 4020/D M10x28-155	40	20	M10x28	4	35,44	140	EC 4020/D M10x28-170	4	69,56	210
EC 4025/D M10x28-145	5	17,52	90	EC 4025/D M10x28-155	40	25	M10x28	5	24,13	120	EC 4025/D M10x28-170	5	55,1	180
EC 4030/D M10x28-145	6	13,21	80	EC 4030/D M10x28-155	40	30	M10x28	6	18,33	110	EC 4030/D M10x28-170	6	28,18	170
EC 4035/D M10x28-145	7	10,62	75	EC 4035/D M10x28-155	40	35	M10x28	7	14,85	100	EC 4035/D M10x28-170	7	25,38	160
EC 4040/D M10x28-145	8	8,93	70	EC 4040/D M10x28-155	40	40	M10x28	8	12,05	97	EC 4040/D M10x28-170	8	18,24	150
EC 4045/D M10x28-145	9	7,71	67	EC 4045/D M10x28-155	40	45	M10x28	9	10,81	90	EC 4045/D M10x28-170	9	17,92	145
EC 4050/D M10x28-145	10			EC 4050/D M10x28-155	40	50	M10x28	10			EC 4050/D M10x28-170	10		
EC 4010/D M12x37-145	2			EC 4010/D M12x37-155	40	10	M12x37	2			EC 4010/D M12x37-170	2		
EC 4015/D M12x37-145	3	31,5	110	EC 4015/D M12x37-155	40	15	M12x37	3	63,12	190	EC 4015/D M12x37-170	3	81,17	324
EC 4020/D M12x37-145	4	26,13	105	EC 4020/D M12x37-155	40	20	M12x37	4	35,44	140	EC 4020/D M12x37-170	4	69,56	210
EC 4025/D M12x37-145	5	17,52	90	EC 4025/D M12x37-155	40	25	M12x37	5	24,13	120	EC 4025/D M12x37-170	5	55,1	180
EC 4030/D M12x37-145	6	13,21	80	EC 4030/D M12x37-155	40	30	M12x37	6	18,33	110	EC 4030/D M12x37-170	6	28,18	170
EC 4035/D M12x37-145	7	10,62	75	EC 4035/D M12x37-155	40	35	M12x37	7	14,85	100	EC 4035/D M12x37-170	7	25,38	160
EC 4040/D M12x37-145	8	8,93	70	EC 4040/D M12x37-155	40	40	M12x37	8	12,05	97	EC 4040/D M12x37-170	8	18,24	150
EC 4045/D M12x37-145	9	7,71	67	EC 4045/D M12x37-155	40	45	M12x37	9	10,81	90	EC 4045/D M12x37-170	9	17,92	145
EC 4050/D M12x37-145	10			EC 4050/D M12x37-155	40	50	M12x37	10			EC 4050/D M12x37-170	10		
EC 5010/D M10x28-145	2			EC 5010/D M10x28-155	50	10	M10x28	2		0	EC 5010/D M10x28-170	2		0
EC 5015/D M10x28-145	3	67,63	200	EC 5015/D M10x28-155	50	15	M10x28	3	83,28	260	EC 5015/D M10x28-170	3	127	380
EC 5020/D M10x28-145	4	48,22	192	EC 5020/D M10x28-155	50	20	M10x28	4	62,34	250	EC 5020/D M10x28-170	4	94,94	370
EC 5025/D M10x28-145	5	30,83	150	EC 5025/D M10x28-155	50	25	M10x28	5	41,92	210	EC 5025/D M10x28-170	5	62,42	310
EC 5030/D M10x28-145	6	22,56	135	EC 5030/D M10x28-155	50	30	M10x28	6	31	190	EC 5030/D M10x28-170	6	42	250
EC 5035/D M10x28-145	7	17,77	124	EC 5035/D M10x28-155	50	35	M10x28	7	24,53	170	EC 5035/D M10x28-170	7	37,04	240
EC 5040/D M10x28-145	8	14,66	115	EC 5040/D M10x28-155	50	40	M10x28	8	20,4	165	EC 5040/D M10x28-170	8	31,02	230
EC 5045/D M10x28-145	9	12,5	110	EC 5045/D M10x28-155	50	45	M10x28	9	17,48	155	EC 5045/D M10x28-170	9	26,66	220
EC 5050/D M10x28-145	10	9	90	EC 5050/D M10x28-155	50	50	M10x28	10	14,44	145	EC 5050/D M10x28-170	10	30,15	210
EC 5055/D M10x28-145	11			EC 5055/D M10x28-155	50	55	M10x28	11			EC 5055/D M10x28-170	11		
EC 5060/D M10x28-145	12			EC 5060/D M10x28-155	50	60	M10x28	12			EC 5060/D M10x28-170	12		
EC 5010/D M12x27-145	2			EC 5010/D M12x27-155	50	10	M12x37	2			EC 5010/D M12x27-170	2		
EC 5015/D M12x27-145	3	67,63	200	EC 5015/D M12x27-155	50	15	M12x37	3	83,28	260	EC 5015/D M12x27-170	3	127	380
EC 5020/D M12x27-145	4	48,22	192	EC 5020/D M12x27-155	50	20	M12x37	4	62,34	250	EC 5020/D M12x27-170	4	94,94	370
EC 5025/D M12x27-145	5	30,83	150	EC 5025/D M12x27-155	50	25	M12x37	5	41,92	210	EC 5025/D M12x27-170	5	62,42	310
EC 5030/D M12x27-145	6	22,56	135	EC 5030/D M12x27-155	50	30	M12x37	6	31	190	EC 5030/D M12x27-170	6	42	250
EC 5035/D M12x27-145	7	17,77	12											

Reference	Deflec-	Stiffness Cz	Load	Reference	d	h	g*1	Deflec-	Stiffness Cz	Load	Reference	Deflec-	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard				mm	daN/mm	daN	Hard	mm	daN/mm	daN
EC 6020/D M10x28-145	4			EC 6020/D M10x28-155	60	20	M10x28	4			EC 6020/D M10x28-170	4		
EC 6025/D M10x28-145	5	33,24	165	EC 6025/D M10x28-155	60	25	M10x28	5	45,68	268	EC 6025/D M10x28-170	5	107,1	535
EC 6030/D M10x28-145	6	26,32	160	EC 6030/D M10x28-155	60	30	M10x28	6	39,15	260	EC 6030/D M10x28-170	6	86	515
EC 6035/D M10x28-145	7	24,4	155	EC 6035/D M10x28-155	60	35	M10x28	7	36,19	247	EC 6035/D M10x28-170	7	54,34	380
EC 6040/D M10x28-145	8	23,5	150	EC 6040/D M10x28-155	60	40	M10x28	8	31,96	240	EC 6040/D M10x28-170	8	45,97	365
EC 6045/D M10x28-145	9	18,89	145	EC 6045/D M10x28-155	60	45	M10x28	9	26,23	230	EC 6045/D M10x28-170	9	39,76	355
EC 6050/D M10x28-145	10	16,17	140	EC 6050/D M10x28-155	60	50	M10x28	10	20,4	200	EC 6050/D M10x28-170	10	37,04	348
EC 6020/D M12x37-145	4			EC 6020/D M12x37-155	60	20	M12x37	4			EC 6020/D M12x37-170	4		
EC 6025/D M12x37-145	5	33,24	165	EC 6025/D M12x37-155	60	25	M12x37	5	45,68	268	EC 6025/D M12x37-170	5	107,1	535
EC 6030/D M12x37-145	6	22,95	160	EC 6030/D M12x37-155	60	30	M12x37	6	39,15	260	EC 6030/D M12x37-170	6	86	515
EC 6035/D M12x37-145	7	26,32	155	EC 6035/D M12x37-155	60	35	M12x37	7	36,19	247	EC 6035/D M12x37-170	7	54,34	380
EC 6040/D M12x37-145	8	23,5	150	EC 6040/D M12x37-155	60	40	M12x37	8	31,96	240	EC 6040/D M12x37-170	8	45,97	365
EC 6045/D M12x37-145	9	18,89	145	EC 6045/D M12x37-155	60	45	M12x37	9	26,23	230	EC 6045/D M12x37-170	9	39,76	355
EC 6050/D M12x37-145	10	16,17	140	EC 6050/D M12x37-155	60	50	M12x37	10	20,4	200	EC 6050/D M12x37-170	10	37,04	348
EC 7020/D M10x28-145	4			EC 7020/D M10x28-155	70	20	M10x28	4			EC 7020/D M10x28-170	4		
EC 7025/D M10x28-145	5	60,8	310	EC 7025/D M10x28-155	70	25	M10x28	5	74,1	410	EC 7025/D M10x28-170	5	101	580
EC 7030/D M10x28-145	6	50,4	300	EC 7030/D M10x28-155	70	30	M10x28	6	63,08	400	EC 7030/D M10x28-170	6	88,93	575
EC 7035/D M10x28-145	7	40,58	285	EC 7035/D M10x28-155	70	35	M10x28	7	55,37	390	EC 7035/D M10x28-170	7	82,6	560
EC 7040/D M10x28-145	8	27,55	220	EC 7040/D M10x28-155	70	40	M10x28	8	50,35	376	EC 7040/D M10x28-170	8	67,76	540
EC 7045/D M10x28-145	9			EC 7045/D M10x28-155	70	45	M10x28	9			EC 7045/D M10x28-170	9		
EC 7050/D M10x28-145	10	23,31	220	EC 7050/D M10x28-155	70	50	M10x28	10	32,24	320	EC 7050/D M10x28-170	10	48,88	480
EC 7060/D M10x28-145	12	19,08	210	EC 7060/D M10x28-155	70	60	M10x28	12	26,13	310	EC 7060/D M10x37-170	12	42,86	470
EC 7515/D M12x37-145	3	385,87	1150	EC 7515/D M12x37-155	75	15	M12x37	3	491,9	1480	EC 7515/D M12x37-170	3	693,72	2080
EC 7525/D M12x37-145	5	91,16	480	EC 7525/D M12x37-155	75	25	M12x37	5	127,6	650	EC 7525/D M12x37-170	5	185,84	930
EC 7530/D M12x37-145	6	71,25	430	EC 7530/D M12x37-155	75	30	M12x37	6	103,4	630	EC 7530/D M12x37-170	6	144,95	870
EC 7535/D M12x37-145	7	45,6	320	EC 7535/D M12x37-155	75	35	M12x37	7	79,8	560	EC 7535/D M12x37-170	7	114,95	800
EC 7540/D M12x37-145	8	38,54	310	EC 7540/D M12x37-155	75	40	M12x37	8	52,83	430	EC 7540/D M12x37-170	8	79,15	650
EC 7545/D M12x37-145	9			EC 7545/D M12x37-155	75	45	M12x37	9			EC 7545/D M12x37-170	9		
EC 7550/D M12x37-145	10	27,35	280	EC 7550/D M12x37-155	75	50	M12x37	10	37,88	380	EC 7550/D M12x37-170	10	51,15	540
EC 7555/D M12x37-145	11	23,88	270	EC 7550/D M12x37-155	75	55	M12x37	11	33,18	365	EC 7550/D M12x37-170	11	50,3	525
EC 7570/D M12x37-145	14	8,82	130	EC 7570/D M12x37-155	75	70	M12x37	14	17,64	245	EC 7570/D M12x37-170	14	37,8	500
EC 7515/D M12x37-145	3	385,87	1150	EC 7515/D M12x37-155	75	15	M12x37	3	491,9	1480	EC 7520/D M12x37-170	3	693,72	2080
EC 7525/D M16x42-145	5	91,16	480	EC 7525/D M16x42-155	75	25	M16x42	5	127,6	650	EC 7525/D M16x42-170	5	185,84	930
EC 7530/D M16x42-145	6	71,25	430	EC 7530/D M16x42-155	75	30	M16x42	6	103,4	630	EC 7530/D M16x42-170	6	144,95	870
EC 7535/D M16x42-145	7	45,6	320	EC 7535/D M16x42-155	75	35	M16x42	7	79,8	560	EC 7535/D M16x42-170	7	114,95	800
EC 7540/D M16x42-145	8	38,54	310	EC 7540/D M16x42-155	75	40	M16x42	8	52,83	430	EC 7540/D M16x42-170	8	79,15	650
EC 7545/D M16x42-145	9			EC 7545/D M16x42-155	75	45	M16x42	9			EC 7545/D M16x42-170	9		
EC 7550/D M16x42-145	10	27,35	280	EC 7550/D M16x42-155	75	50	M16x42	10	37,88	380	EC 7550/D M16x42-170	10	51,15	540
EC 8020/D M14x37-145	4	118,06	480	EC 8020/D M14x37-155	80	20	M14x37	4	155,48	630	EC 8020/D M14x37-170	4	188	800
EC 8030/D M14x37-145	6	78,21	465	EC 8030/D M14x37-155	80	30	M14x37	6	104,62	620	EC 8030/D M14x37-170	6	153,47	930
EC 8040/D M14x37-145	8	45,5	364	EC 8040/D M14x37-155	80	40	M14x37	8	62,14	500	EC 8040/D M14x37-170	8	92,68	740
EC 8050/D M14x37-145	10	28,29	283	EC 8050/D M14x37-155	80	50	M14x37	10	39,48	400	EC 8050/D M14x37-170	10	67,12	670
EC 8080/D M14x37-145	16	17	272	EC 8080/D M14x37-155	80	80	M14x37	16	23,88	380	EC 8080/D M14x37-170	16	36,8	580
EC 10030/D M16x42-145	6	99	600	EC 10030/D M16x42-155	100	30	M16x42	6	155,88	950	EC 10030/D M16x42-170	6	279	1670
EC 10040/D M16x42-145	8	86,86	695	EC 10040/D M16x42-155	100	40	M16x42	8	148,9	1190	EC 10040/D M16x42-170	8	212	1680
EC 10050/D M16x42-145	10	50,76	510	EC 10050/D M16x42-155	100	50	M16x42	10	116	1000	EC 10050/D M16x42-170	10	173	1550
EC 10055/D M16x42-145	11	35,55	400	EC 10055/D M16x42-155	100	55	M16x42	11	58,5	650	EC 10055/D M16x42-170	11	108	1100
EC 10060/D M16x42-145	12			EC 10060/D M16x42-155	100	60	M16x42	12			EC 10060/D M16x42-170	12		
EC 10075/D M16x42-145	15	26,64	390	EC 10075/D M16x42-155	100	75	M16x42	15	39,24	580	EC 10075/D M16x42-170	15	80,19	1020
EC 100100/D M16x42-145	20			EC 100100/D M16x42-155	100	100	M16x42	20			EC 100100/D M16x42-170	20		
EC 10030/D M20x45-145	6	99	600	EC 10030/D M20x45-155	100	30	M20x45	6	155,88	950	EC 10030/D M20x45-170	6	443,12	1670
EC 10040/D M20x45-145	8	86,86	695	EC 10040/D M20x45-155	100	40	M20x45	8	116,75	1190	EC 10040/D M20x45-170	8	270,91	1680
EC 10050/D M20x45-145	10	50,76	510	EC 10050/D M20x45-155	100	50	M20x45	10	148,9	1000	EC 10050/D M20x45-170	10	151,96	1550
EC 10055/D M20x45-145	11	35,55	400	EC 10055/D M20x45-155	100	55	M20x45	11	58,5	650	EC 10055/D M20x45-170	11	123,97	1100
EC 10060/D M20x45-145	12			EC 10060/D M20x45-155	100	60	M20x45	12			EC 10060/D M20x45-170	12		
EC 10075/D M20x45-145	15	26,64	390	EC 10075/D M20x45-155	100	75	M20x45	15	39,24	580	EC 10075/D M20x45-170	15	88,4	1020
EC 100100/D M20x45-145	20			EC 100100/D M20x45-155	100	100	M20x45	20			EC 100100/D M20x45-170	20		
EC 15050/D M20x45-145	10	141,68	1400	EC 15050/D M20x45-155	150	50	M16x42	10	247,34	2400	EC 15050/D M20x45-170	10	368,52	3680
EC 15060/D M20x45-145	12	132,43	1550	EC 15060/D M20x45-155	150	60	M16x42	12	231,2	2700	EC 15060/D M20x45-170	12	344,47	4130
EC 15075/D M20x45-145	15	112,1	1520	EC 15075/D M20x45-155	150	75	M16x42	15	193,2	2800	EC 15075/D M20x45-170	15	258	3870
EC 150100/D M20x45-145	20	91,43	1830	EC 150100/D M20x45-155	150	100	M16x42	20	144	2600	EC 150100/D M20x45-170	20	225	4400
EC 200100/D M20x45-145	20	99	1980	EC 200100/D M20x45-155	200	100	M20x45	20	168	3360	EC 200100/D M20x45-170	20	238	4760

EC typ E

FEMALE - RUBBER



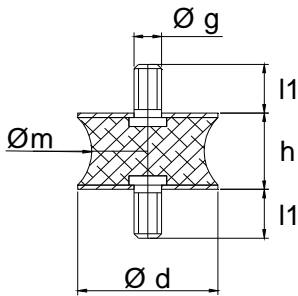
Forme	typ E DIN 95364 Forme E
Hardness	155 Standard 145 Soft 170 Hard
Tolérance	DIN 7715 M3

Reference	Deflec- tion mm	Stiffness Cz daN/mm	Load daN	Reference	d	h	g	l2	Deflec- tion mm	Stiffness Cz daN/mm	Load daN	Reference	Deflec- tion mm	Stiffness Cz daN/mm	Load daN
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 0808/E M3-145	1,6	2,22	3,5	EC 0808/E M3-155	8	8	M3	3	1,6	4,39	9	EC 0808/E M3-170	1,6	8,89	14
EC 1010/E M3-145	2	2,39	4,8	EC 1010/E M4-155	10	10	M3	4	2	4,56	9	EC 1010/E M3-170	2	6,27	12
EC 1015/E M3-145	3	2,05	6	EC 1015/E M4-155	10	15	M3	4	3	4,1	12	EC 1015/E M3-170	3	5,47	16
EC 1020/E M4-145	4	1,82	7	EC 1020/E M4-155	10	20	M4	4	4	3,76	15	EC 1020/E M3-170	4	4,67	18
EC 1510/E M4-145	2	9,92	19	EC 1510/E M4-155	15	10	M4	4	2	14,14	28	EC 1515/E M4-170	2	20,98	40
EC 1515/E M4-145	3	4,15	12	EC 1515/E M4-155	15	15	M4	4	3	5,86	17	EC 1515/E M4-170	3	8,93	26
EC 1520/E M4-145	4	2,85	11	EC 1520/E M4-155	15	20	M4	4	4	4,67	18	EC 1520/E M4-170	4	6,84	25
EC 1525/E M4-145	5			EC 1525/E M4-155	15	25	M4	4	5	0	0	EC 1525/E M4-170	5		
EC 1530/E M4-145	6	1,6	9,6	EC 1530/E M4-155	15	30	M4	4	6	3,08	18	EC 1530/E M4-170	6	4,45	26
EC 1510/E M6-145	2	11,56	23	EC 1510/E M6-155	15	10	M6	6	2	14,14	28	EC 1510/E M6-170	2	20,98	40
EC 1515/E M6-145	3	4,45	13	EC 1515/E M6-155	15	15	M6	6	3	5,86	17	EC 1515/E M6-170	3	8,93	26
EC 1520/E M6-145	4	2,85	11	EC 1520/E M6-155	15	20	M6	6	4	4,67	18	EC 1520/E M6-170	4	6,84	25
EC 1520/E M6-145	6	1,6	9,6	EC 1530/E M6-155	15	30	M6	6	6	3,08	16	EC 1530/E M6-170	6	4,45	24
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 2010/E M6-145	2	14,42	30	EC 2010/E M6-155	20	10	M6	6	2	19,61	40	EC 2010/E M6-170	2	29,3	60
EC 2015/E M6-145	3	8,44	26	EC 2015/E M6-155	20	15	M6	6	3	11,63	35	EC 2015/E M6-170	3	17,56	53
EC 2020/E M6-145	4	5,59	22	EC 2020/E M6-155	20	20	M6	6	4	7,75	31	EC 2020/E M6-170	4	11,86	47
EC 2025/E M6-145	5	4,22	20	EC 2025/E M6-155	20	25	M6	6	5	5,81	29	EC 2025/E M6-170	5	9,01	45
EC 2030/E M6-145	6	3,12	18	EC 2030/E M6-155	20	30	M6	6	6	4,41	26	EC 2030/E M6-170	6	6,73	40
EC 2040/E M6-145	8			EC 2040/E M6-155	20	40	M6	6	8			EC 2040/E M6-170	8		
EC 2020/E M8-145	4	5,59	22	EC 2020/E M8-155	20	20	M8	8	4	7,75	31	EC 2020/E M8-170	4	11,86	47
EC 2025/E M8-145	5	4,22	20	EC 2025/E M8-155	20	25	M8	8	5	5,81	29	EC 2025/E M8-170	5	9,01	45
EC 2030/E M8-145	6	3,12	18	EC 2030/E M8-155	20	30	M8	8	6	4,41	26	EC 2030/E M8-170	6	6,73	40
EC 2040/E M8-145	8			EC 2040/E M8-155	20	40	M8	8	8			EC 2040/E M8-170	8		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 2510/E M6-145	2	37,16	75	EC 2510/E M6-155	25	10	M6	6	2	49,36	100	EC 2510/E M6-170	2	72	150
EC 2520/E M6-145	3	15,28	45	EC 2520/E M6-155	25	15	M6	6	3	20,98	65	EC 2520/E M6-170	3	31,38	100
EC 2520/E M6-145	4	9,58	40	EC 2520/E M6-155	25	20	M6	6	4	13,22	53	EC 2520/E M6-170	4	20,06	80
EC 2525/E M6-145	5	6,95	35	EC 2525/E M6-155	25	25	M6	6	5	9,69	48	EC 2525/E M6-170	5	14,82	75
EC 2530/E M6-145	6	5,53	33	EC 2530/E M6-155	25	30	M6	6	6	7,75	46	EC 2530/E M6-170	6	11,86	70
EC 2535/E M6-145	7	3,99	28	EC 2535/E M6-155	25	35	M6	6	7	5,93	40	EC 2535/E M6-170	7	9,12	64
EC 2540/E M6-145	8			EC 2540/E M6-155	25	40	M6	6	8			EC 2540/E M6-170	8		
EC 2525/E M8-145	5	6,95	35	EC 2525/E M8-155	25	25	M8	8	5	9,69	48	EC 2525/E M8-170	5	20,06	80
EC 2530/E M8-145	6	5,53	33	EC 2530/E M8-155	25	30	M8	8	6	7,75	46	EC 2530/E M8-170	6	14,82	75
EC 2535/E M8-145	7	3,99	28	EC 2535/E M8-155	25	35	M8	8	7	5,93	40	EC 2535/E M8-170	7	11,86	70
EC 2540/E M8-145	8			EC 2540/E M8-155	25	40	M8	8	8			EC 2540/E M8-170	8		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 3010/E M8-145	2	75,81	150	EC 3010/E M8-155	30	10	M8	8	2	98,84	190	EC 3010/E M8-170	2	142,16	280
EC 3015/E M8-145	3	26,22	80	EC 3015/E M8-155	30	15	M8	8	3	35,57	110	EC 3015/E M8-170	3	53	155
EC 3020/E M8-145	4	15,28	60	EC 3020/E M8-155	30	20	M8	8	4	21	90	EC 3020/E M8-170	4	31,69	130
EC 3025/E M8-145	5	11,29	55	EC 3025/E M8-155	30	25	M8	8	5	15,73	80	EC 3025/E M8-170	5	24,28	120
EC 3030/E M8-145	6	8,44	50	EC 3030/E M8-155	30	30	M8	8	6	11,74	70	EC 3030/E M8-170	6	17,09	105
EC 3035/E M8-145	7	6,95	48	EC 3035/E M8-155	30	35	M8	8	7	9,69	67	EC 3035/E M8-170	7	14,93	100
EC 3040/E M8-145	8	5,81	45	EC 3040/E M8-155	30	40	M8	8	8	8,21	65	EC 3040/E M8-170	8	12,54	98
EC 3045/E M8-145	9	5,13	44	EC 3045/E M8-155	30	45	M8	8	9	5,81	53	EC 3045/E M8-170	9	8,55	80
EC 3050/E M8-145	10			EC 3050/E M8-155	30	50	M8	8	10			EC 3050/E M8-170	10		
EC 3030/E M10-145	6	8,44	50	EC 3030/E M10-155	30	30	M10	10	6	11,74	70	EC 3030/E M10-170	6	17,09	105
EC 3035/E M10-145	7	6,95	48	EC 3035/E M10-155	30	35	M10	10	7	9,69	67	EC 3035/E M10-170	7	14,93	100
EC 3040/E M10-145	8	5,81	45	EC 3040/E M10-155	30	40	M10	10	8	8,21	65	EC 3040/E M10-170	8	12,54	98
EC 3045/E M10-145	9	5,13	44	EC 3045/E M10-155	30	45	M10	10	9	5,81	53	EC 3045/E M10-170	9	8,55	80
EC 3050/E M10-145	10			EC 3050/E M10-155	30	50	M10	10	10			EC 3050/E M10-170	10		

EC typ E FEMALE - RUBBER

Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	l2	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 4015/E M8-145	3	38,43	125	EC 4015/E M8-155	40	15	M8	8	3	77,96	235	EC 4015/E M8-170	3	131,76	395
EC 4020/E M8-145	4	31,69	125	EC 4020/E M8-155	40	20	M8	8	4	42,98	170	EC 4020/E M8-170	4	63,84	255
EC 4025/E M8-145	5	21,25	110	EC 4025/E M8-155	40	25	M8	8	5	29,26	145	EC 4025/E M8-170	5	43,89	220
EC 4030/E M8-145	6	16	100	EC 4030/E M8-155	40	30	M8	8	6	22,23	133	EC 4030/E M8-170	6	33,63	205
EC 4035/E M8-145	7	12,88	90	EC 4035/E M8-155	40	35	M8	8	7	18	126	EC 4035/E M8-170	7	27,36	190
EC 4040/E M8-145	8	10,83	86	EC 4040/E M8-155	40	40	M8	8	8	15,16	120	EC 4040/E M8-170	8	23	184
EC 4045/E M8-145	9	9,35	84	EC 4045/E M8-155	40	45	M8	8	9	13,11	118	EC 4045/E M8-170	9	19,95	179
EC 4050/E M8-145	10			EC 4050/E M8-155	40	50	M8	8	10			EC 4050/E M8-170	10		
EC 4020/E M10-145	4	31,69	125	EC 4020/E M10-155	40	20	M10	10	4	42,98	170	EC 4020/E M10-170	4	63,84	255
EC 4025/E M10-145	5	21,25	110	EC 4025/E M10-155	40	25	M10	10	5	29,26	145	EC 4025/E M10-170	5	43,89	220
EC 4030/E M10-145	6	16	100	EC 4030/E M10-155	40	30	M10	10	6	22,23	133	EC 4030/E M10-170	6	33,63	205
EC 4035/E M10-145	7	12,88	90	EC 4035/E M10-155	40	35	M10	10	7	18	126	EC 4035/E M10-170	7	27,36	190
EC 4040/E M10-145	8	10,83	86	EC 4040/E M10-155	40	40	M10	10	8	15,16	120	EC 4040/E M10-170	8	23	184
EC 4045/E M10-145	9	9,35	84	EC 4045/E M10-155	40	45	M10	10	9	13,11	118	EC 4045/E M10-170	9	19,95	179
EC 4050/E M10-145	10			EC 4050/E M10-155	40	50	M10	10	10			EC 4050/E M10-170	10		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 5015/E M10-145	3	120	360	EC 5015/E M10-155	50	15	M10	10	3	155	465	EC 5015/E M10-170	3	223,44	670
EC 5020/E M10-145	4	60	235	EC 5020/E M10-155	50	20	M10	10	4	78,32	315	EC 5020/E M10-170	4	115,4	460
EC 5025/E M10-145	5	37,39	190	EC 5025/E M10-155	50	25	M10	10	5	50,84	260	EC 5025/E M10-170	5	75,7	380
EC 5030/E M10-145	6	27,36	170	EC 5030/E M10-155	50	30	M10	10	6	39	240	EC 5030/E M10-170	6	56,43	340
EC 5035/E M10-145	7	21,55	150	EC 5035/E M10-155	50	35	M10	10	7	37	230	EC 5035/E M10-170	7	44,93	320
EC 5040/E M10-145	8	17,78	140	EC 5040/E M10-155	50	40	M10	10	8	24,74	200	EC 5040/E M10-170	8	36,72	295
EC 5045/E M10-145	9	15,16	135	EC 5045/E M10-155	50	45	M10	10	9	21,2	190	EC 5045/E M10-170	9	32,26	290
EC 5050/E M10-145	10	10,98	110	EC 5050/E M10-155	50	50	M10	10	10	17,57	175	EC 5050/E M10-170	10	27,8	278
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 6020/E M10-145	4	55	220	EC 6030/E M10-155	60	20	M10	10	4	105,96	425	EC 6030/E M10-170	4	203,13	810
EC 6025/E M10-145	5	39,53	200	EC 6030/E M10-155	60	25	M10	10	5	74,66	375	EC 6030/E M10-170	5	169,31	850
EC 6030/E M10-145	6	32	190	EC 6030/E M10-155	60	30	M10	10	6	47,76	285	EC 6030/E M10-170	6	105	630
EC 6035/E M10-145	7	28	185	EC 6035/E M10-155	60	35	M10	10	7	43,89	300	EC 6035/E M10-170	7	65,89	460
EC 6040/E M10-145	8	28,5	185	EC 6040/E M10-155	60	40	M10	10	8	38,77	310	EC 6040/E M10-170	8	55,75	446
EC 6045/E M10-145	9	22,91	205	EC 6045/E M10-155	60	45	M10	10	9	31,81	285	EC 6045/E M10-170	9	48,22	435
EC 6050/E M10-145	10	15,4	155	EC 6050/E M10-155	60	50	M10	10	10	24,74	250	EC 6050/E M10-170	10	44,92	430
Reference	Deflection	Stiffness Cz	Load	Reference	d	h	g	l2	Deflection	Stiffness Cz	Load	Reference	Deflection	Stiffness Cz	Load
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 7030/E M10-145	6	58	348	EC 7030/E M10-155	70	30	M10	10	6	79,23	480	EC 7030/E M10-170	6	155	930
EC 7035/E M10-145	7	49,2	344	EC 7035/E M10-155	70	35	M10	10	7	67,15	470	EC 7035/E M10-170	7	100	700
EC 7040/E M10-145	8	33	264	EC 7040/E M10-155	70	40	M10	10	8	60,4	480	EC 7040/E M10-170	8	81,2	650
EC 7050/E M10-145	10	28	280	EC 7050/E M10-155	70	50	M10	10	10	39	390	EC 7050/E M10-170	10	59,28	590
EC 7060/E M10-145	12	23,14	270	EC 7060/E M10-155	70	60	M10	10	12	24,2	300	EC 7060/E M10-170	12	51,98	620
EC 7070/E M10-145	14	17,6	245	EC 7070/E M10-155	70	70	M10	10	14	20,9	290	EC 7070/E M10-170	14	38,87	545
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 7515/E M12-145	0,5	467,7	233,85	EC 7515/E M12-155	75	30	M12	12	0,5	596,56	300	EC 7515/E M12-170	0,5	841,32	420
EC 7525/E M12-145	1,5	117	175,5	EC 7525/E M12-155	75	25	M12	12	1,5	154,58	240	EC 7525/E M12-170	1,5	225,38	340
EC 7530/E M12-145	6	85,5	513	EC 7530/E M12-155	75	30	M12	12	6	125	750	EC 7530/E M12-170	6	175,79	1055
EC 7535/E M12-145	7	54,72	383,04	EC 7535/E M12-155	75	35	M12	12	7	95,76	670,32	EC 7535/E M12-170	7	137,94	965
EC 7540/E M12-145	8	46,74	373,92	EC 7540/E M12-155	75	40	M12	12	8	64	512	EC 7540/E M12-170	8	96	770
EC 7550/E M12-145	10	33,17	331,7	EC 7550/E M12-155	75	50	M12	12	10	45,94	459,4	EC 7550/E M12-170	10	69,31	693,1
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 8030/E M14-145	6	94,85	570	EC 8030/E M14-155	80	30	M14	14	6	126,88	761,28	EC 8030/E M14-170	6	186,5	1120
EC 8040/E M14-145	8	55,18	440	EC 8040/E M14-155	80	40	M14	14	8	82,94	663,52	EC 8040/E M14-170	8	112,4	900
EC 8050/E M14-145	10	34,41	345	EC 8050/E M14-155	80	50	M14	14	10	47,88	478,8	EC 8050/E M14-170	10	81,4	815
EC 8060/E M14-145	12			EC 8060/E M14-155	80	60	M14	14	12		0	EC 8060/E M14-170	12		
EC 8080/E M14-145	16	20,63	330,08	EC 8080/E M14-155	80	80	M14	14	16	28,96	463,36	EC 8080/E M14-170	16	44,12	705,92
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 10030/E M16-145	6	120,78	725	EC 10030/E M16-155	100	30	M16	16	6	190,2	1141,2	EC 10030/E M16-170	6	340,48	2040
EC 10040/E M16-145	8	105,34	840	EC 10040/E M16-155	100	40	M16	16	8	180,59	1132,72	EC 10040/E M16-170	8	289	2312
EC 10050/E M16-145	10	61,56	615	EC 10050/E M16-155	100	50	M16	16	10	141	140	EC 10050/E M16-170	10	157,5	1575
EC 10055/E M16-145	11	43,4	480	EC 10055/E M16-155	100	55	M16	16	11	71,37	785	EC 10055/E M16-170	11	131,6	1440
EC 10060/E M16-145	12			EC 10060/E M16-155	100	60	M16	16	12		0	EC 10060/E M16-170	12		
Soft	mm	daN/mm	daN	Standard					mm	daN/mm	daN	hard	mm	daN/mm	daN
EC 15050/E M20-145	10	141,95	1420	EC 15050/E M20-155	150	50	M20	20	10	247,93	2480	EC 15050/E M20-170	10	368,85	3690
EC 15075/E M20-145	15	67,1	1100	EC 15075/E M20-155	150	75	M20	20	15	107,71	1620	EC 15075/E M20-170	15	219,6	3295
EC 150100/E M20-145	20	80,84	1600	EC 150100/E M20-155	150	100	M20	20	20	115,32	2300	EC 150100/E M20-170	20	207,95	4160
EC 200100/E M20-145	20	110,68	2200	EC 200100/E M20-155	200	100	M20	20	20	202,65	4050	EC 200100/E M20-170	20	287,99	5760

DIABOLO



Variant typ B Male/Female
typ C Femelle/Female

Materials NR 55 variant NBR CR EPDM
Zinc steel

Form DIN 95363

Temperature -40° $+80^{\circ}$

Hardness 155 Standard 55 Sh A +-5

Fail-safe

Vibration isolation

Shock damping

Oil Grease Ozone resistance...

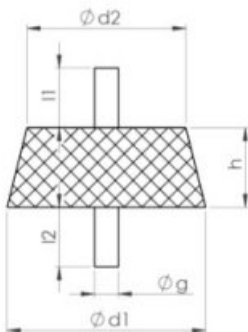
Construction-borne noise isolation

Vehicle off road application

Reference	d	m	h	g	l1
EDC 10/10 M4	10	8	10	M4	10
EDC 12-7/15 M4	12	7	15	M6	18
EDC 15-12/15 M4	15	12	15	M4	10
EDC 20/15 M6	20	14	15	M6	18
EDC 20-14/30 M6	20	14	30	M6	18
EDC 20-16/20 M6	20	16	20	M6	18
EDC 25-10/20 M6	25	10	20	M6	18
EDC 25-17/20 M6	25	17	20	M6	18
EDC 30-20/20 M8	30	20	20	M8	20
EDC 40-20/30 M8	40	20	30	M8	23
EDC 40-25/40 M8	40	25	40	M8	23
EDC 40-32/48 M8	40	32	48	M8	23
EDC 50/50 M10	50	35	50	M10	28
EDC 50/30 M10	50	28	30	M10	28
EDC 75/40 M12	75	60	40	M12	37
EDC 80/60 M12	80	60	60	M12	37
EDC 110/60 M16	110	86	60	M14	28

ECC

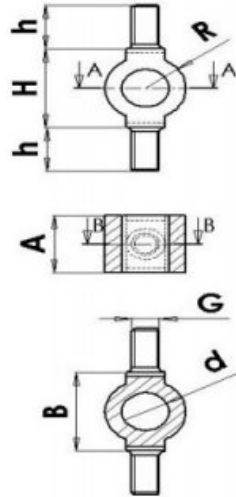
CONICAL MOUNT



Reference	d1	d2	h	g	l1 l2
ECC 10/10 M4	28	38	22	M8	20
ECC 3245/A M8	32	45	30	M8	20

PF

SMALL LOAD

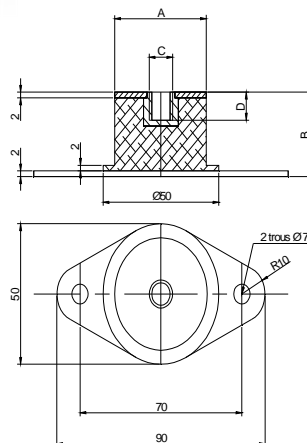
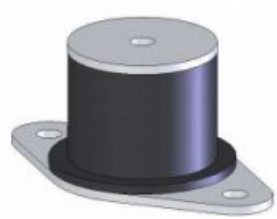


Reference	B	A	H	G x h	d	R	Load Max daN
PF 12.5/12.5 M4	12.5	9,5	12.5	M4x10	5.6	5,25	1
PF 17/14 M4	17	13	14	M4x10	6	7	1,8
PF 25/30 M5	25	20	30	M5x14/6	12	7	5
PF 36/40 M10	36	26	40	M10x20	17	7	10

Fail-safe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

EP

FLANGE MOUNT



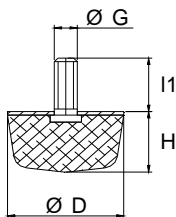
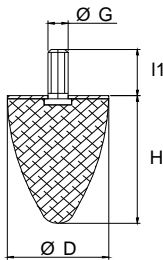
Reference	A	B	C	D	Load
EP 01.55 M6	25	20	M6	6	15 - 35 kg
EP 02.55 M8	40	30	M8	8	30 - 90 kg
EP 03.55 M10	50	40	M10	10	60 - 120 kg

Fail-safe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vehicle off road application	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

BUTEE

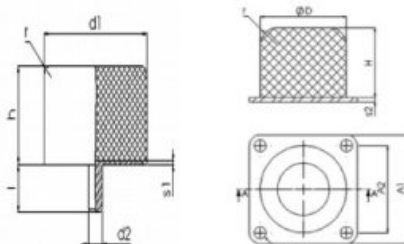


Materials	NR variante NBR CR EPDM Insert acier zingué
Forme	DIN 95364F
Température	-40° +80°
Hardness	155 Standard 55 Sh A +-5
Fail-safe	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vehicule off road application	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>



Reference	D	H	G	l1	Effort max daN	Course mm
EBP 10/10	10	10	M5	12		
EBP 20/24	20	24	M6	18	60	14
EBP 25/20	25	20	M6	18		
EBP 30/30	30	30	M8	20	140	15
EBP 30/36	30	36	M8	20	140	19
EBP 30/36	30	36	M8	20	140	19
EBP 50/58	50	50	M8 (M10)	20	330	22
EBP 50/64	50	64	M10	28	400	32
EBP 75/89	75	89	M12	33	900	47
EBP 100/85	100	85	M16	37	1200	35
EBP 115/136	115	136	M16	37		

Reference	D	H	G	H	Effort Max daN	Course mm	
EBK 25/17	25	17	M6	18	100	6,5	
EBK 35/40	35	40	M8	23	350	5.5	
EBK 40/30	40	30	M8	23			
EBK 50/18	50	18	M10	28	500	4,5	
EBK 50/30	50	30	M10	28	500	4,0	
EBK 75/28	75	28	M12	37			
EBK 80/30	80	<input type="checkbox"/>	30	M12	37	2000	8,5
EBK 125/45	125	<input type="checkbox"/>	45	M16	45	5000	18



typ A

typ B

Reference	D	H	A1	A2	d1	G	l1	r	S1	s2	T	Course mm	Force kN	Energie Joules
EBR 4032B	40	32	50	40	5,5		23	8	2	2	8	18	15	70
EBR 5040B	50	40	63	50	6,5		28	10	3	2	10	22	24	140
EBR 6350B	63	50	80	63	6,5		28	12.5	4	3	10	28	37.5	280
EBR 8063B	80	63	100	80	9		37	18	5	3	12	35	60	560
EBR 10080B	100	80	125	100	9		36	20	6	4	12	44	95	1120
EBR 125100B	125	100	160	125	11		36	25	6	4	16	55	150	2240
EBR 160125B	160	125	200	160	11		44	32	8	6	16	68	240	4400
EBR 200160B	200	160	250	200	13		44	40	8	6	18	38	375	8800

BUTEE GRANDE COURSE



Materials NR Rubber
Bonded on square steel plate

Forme Hollow cylindrical

Hardness 60 / 75 Sh A +-5

Tolérance DIN 7715 M3

Fail-safe

Vibration isolation

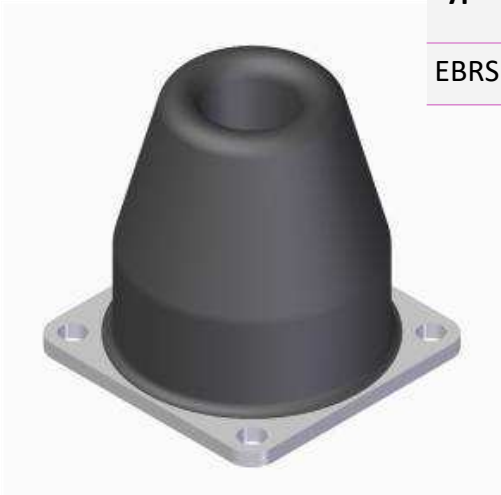
Shock damping

Oil Grease Ozone resistance...

Construction-borne noise isolation

Vehicule off road application

typ	Base	Height	Entraxe	Fixing hole
EBRS 110	110x110	110	90	8.5



Reference	Energy	Deflection	Reaction force
EBRS 110.160	330 J	50 mm	1800 daN
EBRS 110.175	550 J	50 mm	3400 daN

ISOLATEUR METALLIQUE



Materials	Spring with Shot peeling treatment to improve its dynamic resistance and epoxy finish for better protection. Polyethylene softened with closed cells to prevent the entry of solid elements and avoid any damage to the coils. Zinc plated metal parts
Natural frequency	3 - 5 Hz
Ratio stiffness	Kx/Ky : 0.7
SurLoad	25% de la Load maximale

Fail-safe	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Vehicule off road application	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Reference	Diameter mm	height mm	Fixing
V 1.xx	50,50	50,50	M8/M8

Reference	Load KG	Deflection mm	Load Max	Deflection mm	Stiffness daN/mm	Weight kg
V 1.15	2	1,2	15	12	1,25	0,15
V 1.25	3	1,2	25	12	2.50	0,16
V 1.50	5	1,2	50	12	4.17	0,17
V 1.75	8	1,2	75	12	6,25	0,17
V 1.100	10	1,2	100	12	8,33	0,17

STEEL SPRING ISOLATOR



Materials Spring with Shot peeling treatment to improve its dynamic resistance and epoxy finish for better protection. Polyethylene softened with closed cells to prevent the entry of solid elements and avoid any damage to the coils. Zinc plated metal parts

Natural frequency 3 - 5 Hz

Ratio stiffness $K_x/K_y : 0.7$

Overload 25% Maximal load

Fail-safe

Vibration isolation

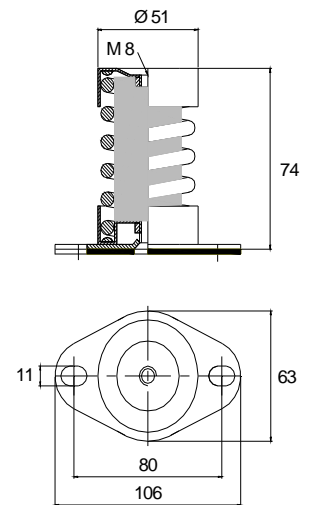
Shock damping

Oil Grease Ozone resistance...

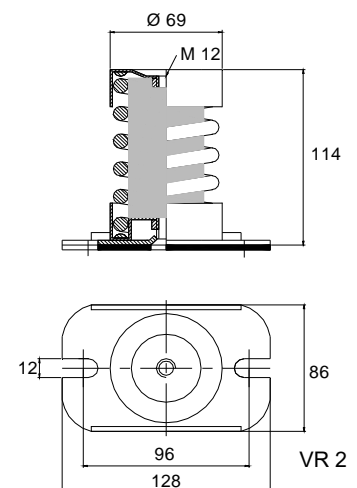
Construction-borne noise isolation

Vehicle off road application

Reference	Load Mini kg	Deflection Mini mm	Load Max kg	Deflection Max mm	Stiffness daN/mm	Weight kg
VR 1.5	2	10	5	25	0,2	0,28
VR 1.15	6	10	15	25	0,6	0,29
VR 1.25	10	10	25	25	1	0,30
VR 1.50	20	10	50	25	2	0,32
VR 1.75	30	10	75	25	3	0,35
VR 1.100	40	10	100	25	4	0,36
VR 1.125	50	10	125	25	5	0,37
VR 2.150	60	10	150	25	6	0,80
VR 2.200	80	10	200	25	8	0,90
VR 2.250	100	10	250	25	10	1
VR 2.500	200	10	450	25	20	1
VR 2.600	240	10	600	25	24	1,20
VR 2.700	250	10	700	25	38	1,20
VR 2.800	340	10	800	23	34,78	1.20



VR 1



VR 2

VR 3

STEEL SPRING ISOLATOR



Materials Spring with Shot peeling treatment to improve its dynamic resistance and epoxy finish for better protection. Polyethylene softened with closed cells to prevent the entry of solid elements and avoid any damage to the coils. Zinc plated metal parts

Natural frequency 3 - 5 Hz

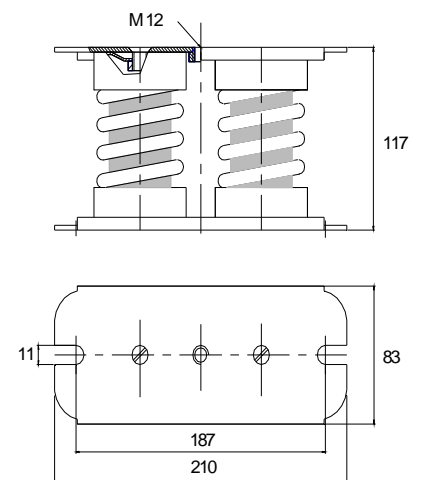
Ratio stiffness $K_x/K_y : 0.7$

Overload 25% Maximal load

Features

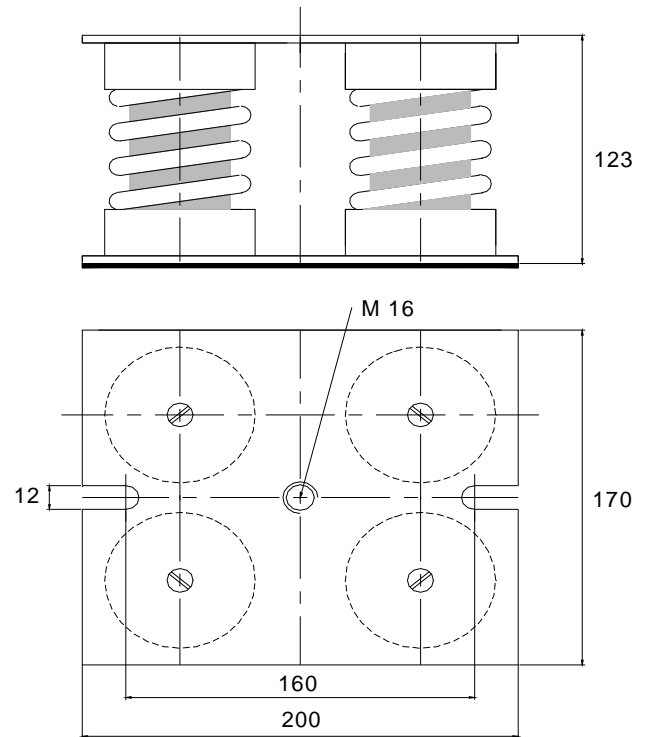
Economic solution,
Extended load range for accurate calculation
Large elastic stroke up to 25 mm
Elastomer plate under the fixing plate to isolate high frequencies
Precision leveling integrated by screwing the nut

Reference	Load Mini kg	Deflection Mini	Load Max kg	Deflection Max	Stiffness daN/mm	Weight kg
VR 3.300	110	10	300	25	12	2
VR 3.400	140	10	400	25	16	2
VR 3.500	170	10	500	25	20	2
VR 3.600	200	10	600	25	24	2,5
VR 3.800	250	10	800	25	32	3
VR 3.1200	340	10	1200	25	48	3.4
VR 3.1400	560	10	1400	25	56	3.4



VR 4

STEEL SPRING ISOLATOR



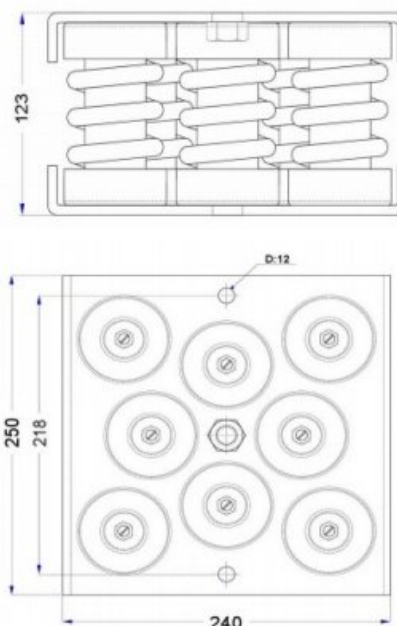
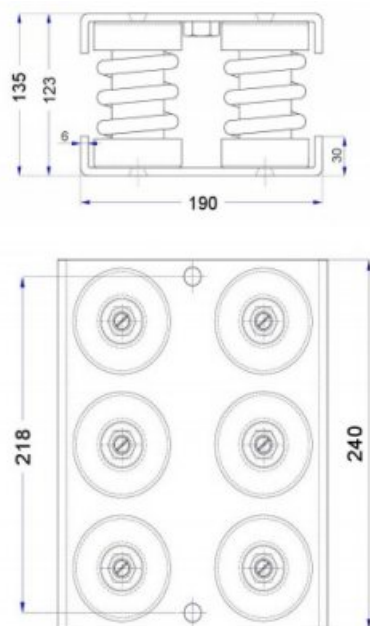
Variant

- Pre-stressed model code P
- Anti-rebound spring box code AR
- Epoxy box protection code E
- Elastomer plate 12 mm code R H becomes 132 mm

Reference	Load Mini kg	Deflection Mini mm	Load Max. kg	Deflection Max. mm	Stiffness daN / mm	Weight kg
VR 4.600	257	15	600	25	24	6
VR 4.800	343	15	800	25	32	6
VR 4.1000	428	15	1000	25	40	6
VR 4.1200	720	15	1200	25	48	6
VR 4.1400	840	15	1400	25	56	6
VR 4.1600	960	15	1600	25	64	7
VR 4.1800	1080	15	1800	25	72	7
VR 4.2000	1200	15	2000	25	80	7
VR 4.2200	1300	15	2200	25	80	7
VR 4.2400	1440	15	2400	25	96	7
VR 4.2800	1680	15	2800	25	112	7
VR 4.3200	1920	15	3200	25	128	7



STEEL SPRING ISOLATOR



Hauteur libre 123 mm + Elastomer 5 mm 1 face Total 128 mm Sur demande Hauteur libre max 131 mm avec élastomère spécial 8 mm
 SurLoad admissible temporaire +50% de la Load max.
 Ratio Stiffness Kx/Kz 3.2 Ratio Stiffness Ky/Kz 1.6

Reference	Load Mini kg	Deflection Mini mm	Load Max kg	Deflection Max mm	Stiffness daN / mm	Weight kg
VR 6.600	190	8	600	25	24	9.5
VR 6.800	255	8	800	25	32	9.5
VR 6.1000	320	8	1000	25	40	9.5
VR 6.1200	385	8	1200	25	48	10
VR 6.1400	450	8	1400	25	56	10
VR 6.1600	510	8	1600	25	64	10
VR 6.1800	580	8	1800	25	72	10
VR 6.2000	640	8	2000	25	80	10
VR 6.2400	760	8	2400	25	96	10
VR 6.2700	860	8	2800	25	108	10
VR 6.3000	960	8	3200	25	120	10
VR 6.3200	1000	8	3600	25	128	10
VR 6.3300	1050	8	3300	25	132	10
VR 6.3600	1100	8	3600	25	144	10
VR 6.4200	1400	8	4200	23	182,60	10
VR 6.4400	1500	8	4400	23	191,30	10
VR 6.4800	1700	8	4800	23	208,70	10

Reference	Load Mini kg	Deflection Mini mm	Load Max kg	Deflection Max mm	Stiffness daN / mm	Weight kg
VR 8.2800	900	8	2800	25	112	15
VR 8.3200	1024	8	3200	25	128	15
VR 8.3400	1088	8	3400	25	136	15
VR 8.3600	1152	8	3600	25	144	15
VR 8.4000	1280	8	4000	25	160	15
VR 8.4200	1344	8	4200	25	168	15
VR 8.4400	1408	8	4400	25	176	15
VR 8.4800	1536	8	4800	25	192	15
VR 8.5000	1740	8	5000	23	217,39	15
VR 8.5600	1948	8	5600	23	243,48	15
VR 8.5800	2017	8	5800	23	252,17	15
VR 8.6000	2086	8	6000	23	260,87	15
VR 8.6400	2220	8	6400	23	278,26	15

VRH 3

STEEL SPRING REINFORCED



Materials Spring with Shot peeling treatment to improve its dynamic resistance and epoxy finish for better protection. Polyethylene softened with closed cells to prevent the entry of solid elements and avoid any damage to the coils. Zinc plated metal parts

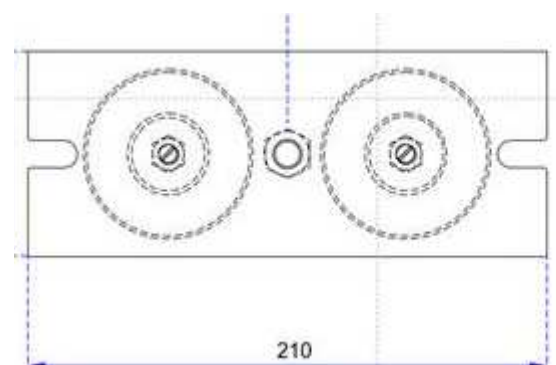
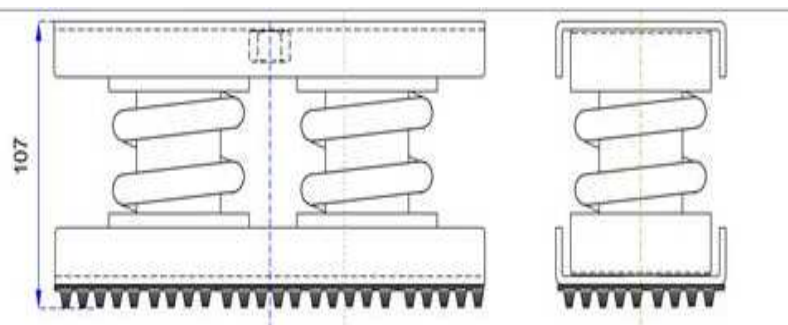
Natural frequency 6—11 Hz

Ratio stiffness $K_x/K_y : 1.4$ $K_x/K_z : 2,8$

Overload 25% Maximal load

Features

- High lateral stability
- Gamme de Load étendue pour un calcul précis
- Deflection up to 15 mm
- Rubber pad for
- Precision leveling

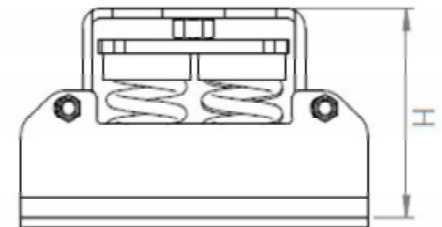
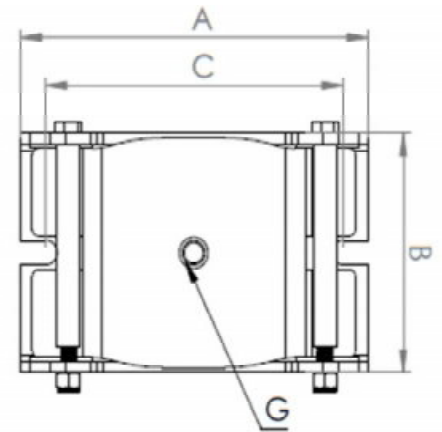
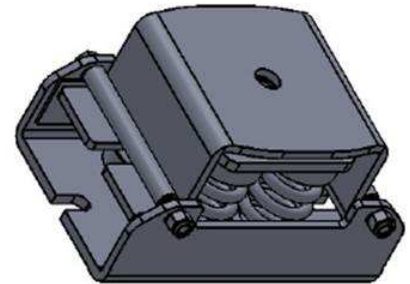


Reference	Load Mini	Deflection Mini	Load Max	Deflection Max mm	Stiffness daN/mm	Weight kg
VRH 3.400	200	7.5	400	15	26,67	4
VRH 3.600	300	7.5	600	15	40	4
VRH 3.800	400	7.5	800	15	53,33	4,1
VRH 3.1000	500	7.5	1000	15	66,67	4,1
VRH 3.1200	600	7.5	1200	15	80	4,2
VRH 3.1400	700	7.5	1400	15	93,33	4,3



Features

- Reinforced construction
- Painted corrosion protection
- Integrated precision leveling
- Multidirectional guiding
- Lateral and vertical movement limited by stop
- Rubber sole to isolate high frequencies
- 1/2/4 springs box



Applications :

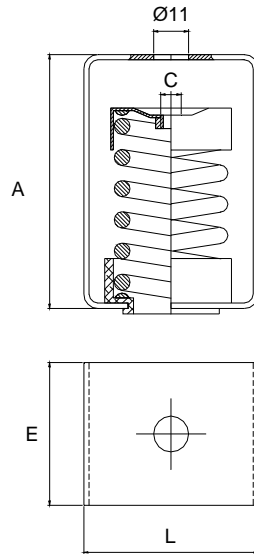
Insulation of rotating equipment from 400 rpm
Equipment that must withstand seismic stresses,
strong winds, dynamic forces

VRR Natural frequency: 3 - 5 Hz

Fail-safe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vehicule off road application	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Référence	A	B	H	Leveling mm	C	G	Load mini daN	Deflection mm	Load Max daN	Deflection mm	Stiffness daN/mm
VRR 2.0250	276	110	163	+10	236	M16x10	100	10	250	25	10
VRR 2.0500	276	110	163	+10	236	M16x10	200	10	500	25	20
VRR 2.0750	276	110	163	+10	236	M16x10	300	10	750	25	30
VRR 2.1000	276	110	163	+10	236	M16x10	400	10	1000	25	40
VRR 4.0500	276	177	163	+10	236	M18x10	200	10	500	25	20
VRR 4.0750	276	177	163	+10	236	M18x10	300	10	750	25	30
VRR 4.1000	276	177	163	+10	236	M18x10	400	10	1000	25	40
VRR 4.1250	276	177	163	+10	236	M18x10	500	10	1250	25	50
VRR 4.1500	276	177	163	+10	236	M18x10	600	10	1500	25	60
VRR 4.1750	276	177	163	+10	236	M18x10	700	10	1750	25	70
VRR 4.2000	276	177	163	+10	236	M18x10	800	10	2000	25	80
VRR 4.2250	276	177	163	+10	236	M18x10	900	10	2250	25	90
VRR 4.2400	276	177	163	+10	236	M18x10	1000	10	2400	25	96
VRR 4.2800	276	177	163	+10	236	M18x10	1100	10	2800	25	112
VRR 4.3000	276	177	163	+10	236	M18x10	1200	10	3000	25	120
VRR 4.3200	276	177	163	+10	236	M18x10	1280	10	3200	25	128

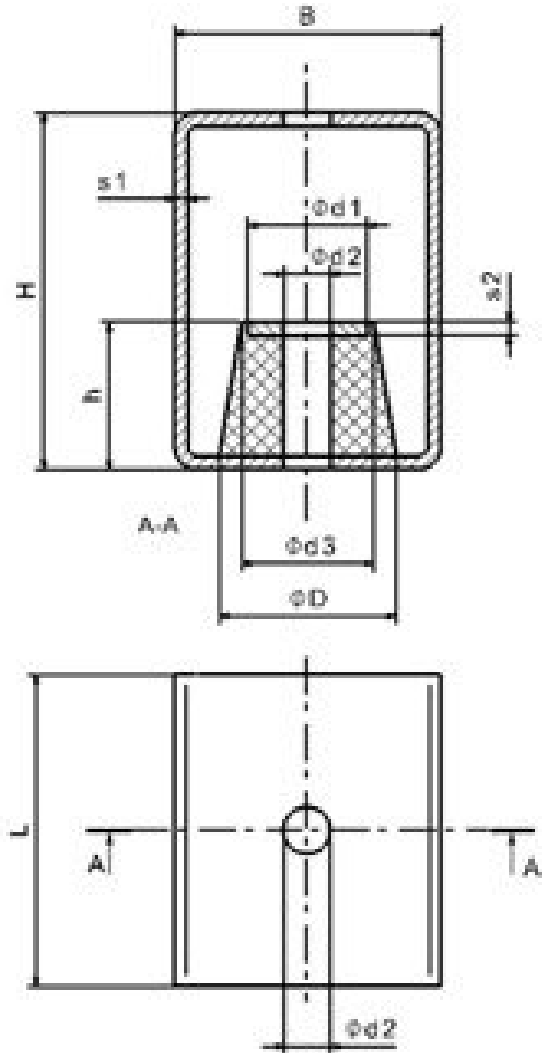
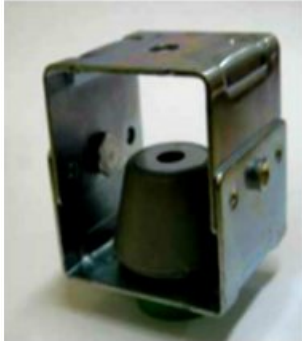
HANGER STEEL SPRING



Reference	A	C	E	L	Load mini daN	Deflection mini mm	Load maxi daN	Deflection maxi mm	Stiffness daN/mm
NINI VT 05					0.5		05		0.22
NINI VT 15					2		15		0.65
MINI VT 25	102.5	M12	60	66	3	2.3	25	23	1.09
MINI VT 50					5		50		2.17
MINI VT 75					10		75		3.26
MINI VT 100					10		100		4.35

Reference	A	C	E	L	Load mini daN	Deflection mini mm	Load maxi daN	Deflection maxi mm	Stiffness daN/mm
VT 100					40		100		4
VT 125					50		125		5
VT 150					60		150		6
VT 200					80		200		8
VT 250					100		250		25
VT 350	150	M12	80	100	140	10	350	25	14
VT 450					180		450		18
VT 500					200		500		20
VT 600					240		600		24
VT 700					280		700		28
VT 800					320		800		32

Livré sans tige de fixation



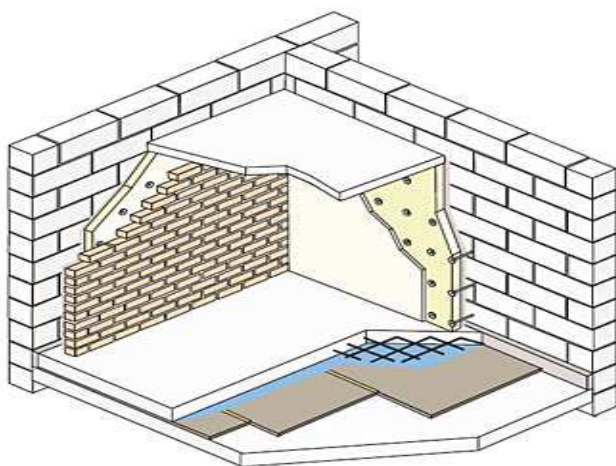
Materials	Zinc steel box NR rubber steel
Hardness	45 / 55 Sh A +-5
Tolerance	DIN 7715 M3
Natural frequency	12 - 8 Hz
Hanger	Ductwork Piping Air conditioning False ceiling
Mounting	Articulated steel cage for easy mounting

Delivery without bolt nut washer

Reference	B	H	D	d1	d2	d3	S1	S2	h	L	Weight
VE 01 - 145	50	56	40	34	8.5	30	2.5	2	23	45	0,28
VE 01 - 155											

Reference	Load mini daN	Deflection mini mm	Load maxi daN	Deflection maxi mm
VE 01 - 145	8	1	45	3
VE 01 - 155	15	1	75	3

PLAKISOL PL are not underlays for impact sound insulation. If they also fulfill this function, they are above all devices for low-frequency vibration isolation



Natural frequency	12 - 8 Hz Rubber spring version
	5 - 3.5 Hz Steel spring version

Features

- Low frequency vibration isolation
- Delivered assembled and ready to install
- Quick installation that can be done without skill specific
- No slab to level
- Thermal insulation

2 types of shock absorbers

- Rubber springs**
- Steel springs**

Serves as formwork for pouring a reinforced concrete slab of 12 to 15 cm minimum, i.e. 260 and 400 kg/m².

We recommend a reinforced slab with a minimum thickness of 10 cm

No need for an inspection hatch, the slab is automatically suspended

Homogeneous distribution of the supports allowing a uniform resumption of the efforts

Translated with www.DeepL.com/Translator (free version)

Limited effective stress rate to achieve a settlement < 3% of height over a 20 year period

Constant insulation performance over time

Mineral wool for increased acoustic insulation

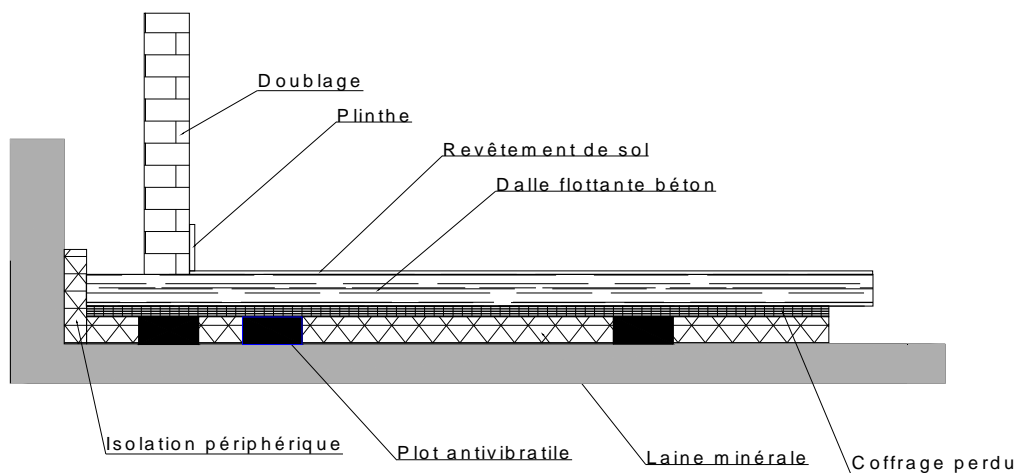
Training and site supervision

Moulded and uncut rubber insulator with a form factor designed to increase elasticity under load

Elastomer first transformation not recycled for increased performance and longevity

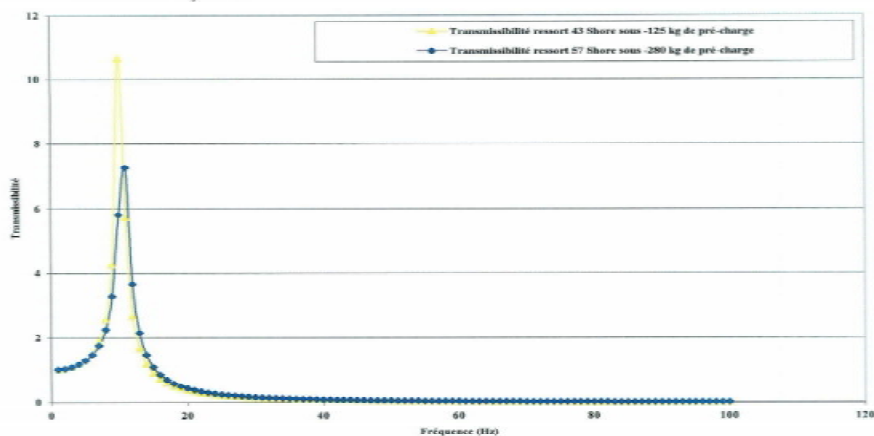
PRE-MANUFACTURED MODULAR FLOATING FLOOR

Materials	Wood CTBS thickness 19 Rubber spring NR 50 mm Mineral wool 45 mm
Size	1000x1000 mm - 1500x1000 mm
Height	68 mm
Number of isolators	1000 x 1000 4 1500 x 1000 6
Load	60 to 900 kg/m ² (0.90 N/cm ²) typ 145 or 155
Coefficient de friction	0.8
Temperature	- 20° C / + 70° C
Installation	Simple, no tools, easy to install Cutting to the dimensions of the slabs PLAKISOL are fixed between them by metal fixing plate of our supply



Essais dynamiques de ressorts élastomères

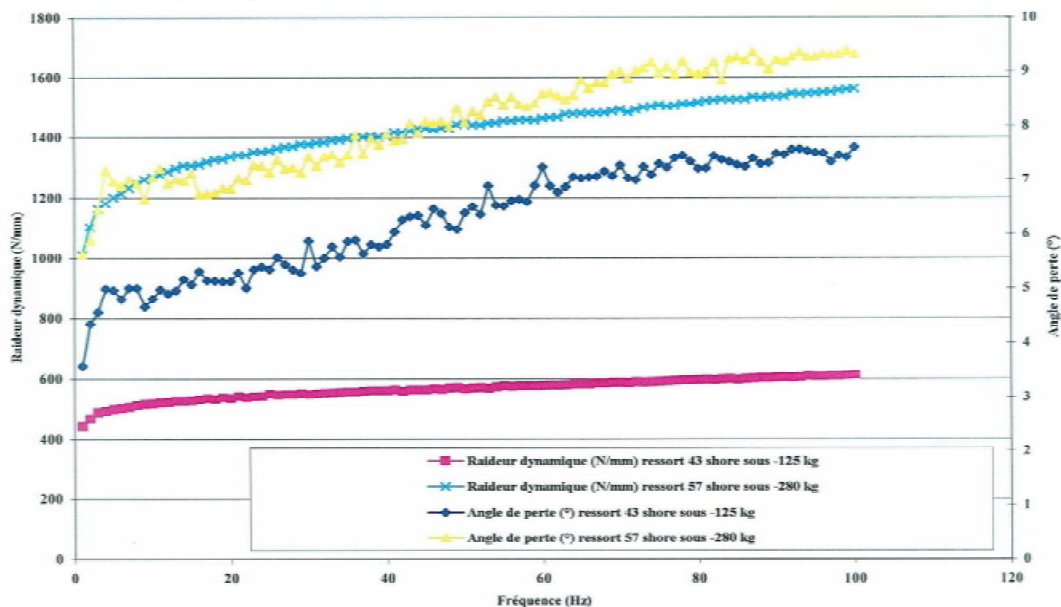
Dimension des ressorts
Moyen d'essai : machine dynamique Schenck VHF7
Fréquence de sollicitation : 1 à 100 Hz ; 100 points de mesure ; incrément linéaire
Amplitude dynamique : ≈ 50 µm ; mode d'essai dyn B
Température d'essai : ambiante
Date des mesures : 29 juillet 2004



PRE-MANUFACTURED MODULAR FLOATING FLOOR

Essais dynamiques de ressorts élastomères

Moyen d'essai : machine dynamique Schenck VHF7
 Fréquence de sollicitation : 1 à 100 Hz ; 100 points de mesure ; incrément linéaire
 Amplitude dynamique : ±50 µm ; mode d'essai dyn B
 Température d'essai : ambiante
 Date des mesures : 29 juillet 2004



Force/compression performance table on request + test report

The Natural frequency of the slab being a function of its mass, we will communicate this value by calculation note according to the Loads specifications

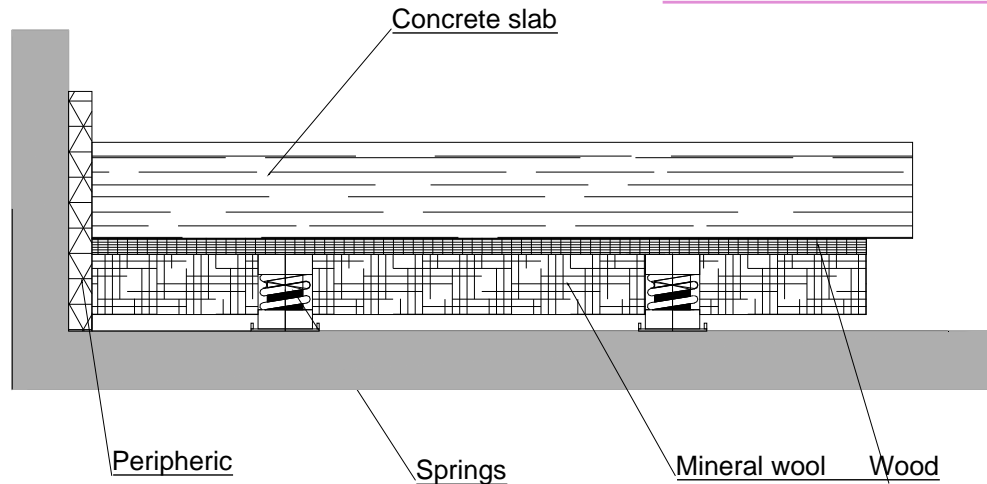
Reference	Permanent load Minimum recommended Per plate (In Kg/m ²)	Permanent load Max recommended Per plate (m ²)	Load dynamic Max.	overload
PL 1000.50.145	180	600	280 kg	880 kg
PL 1500.50.145	270 (180 kg)	900 kg (600 kg)	420 kg	1320 kg

Reference	Permanent load Minimum recommended Per plate (In Kg/m ²)	Permanent load Max recommended Per plate (m ²)	Load dynamic Max.	overload
PL 1000.50.155	320	900	500 kg	1400 kg
PL 1500.50.155	480 (320 kg)	1350 kg (900 kg)	750 kg	2100 kg

Reference	Deflection / minimum Load mm	Deflection / maximum Load mm	Stiffness Load max. permanente
PL 1000.50.145	2	5	1200 N/mm
PL 1500.50.145	2	5	1800 N/mm
PL 1000.50.155	2	5	1800 N/mm
PL 1500.50.155	2	5	2700 N/mm

PRE-MANUFACTURED MODULAR FLOATING FLOOR

Natural frequency 3.5 - 4.5 Hz
Vertical Static



Materials	Wood panel CTBS ep 18 mm	
	Steel spring isolator	Semi-rigid mineral wool 75 mm
Sizes	1000x1000 mm et 1500x1000 mm	
Height	133 mm	
Height under Max. load	113 mm	
Number of isolators by plate	1000 x 1000 = 4	1500 x 1000 = 6
Friction Coef	0.4	
Temperature	- 40° C / + 150° C	
Installation	Simple, sans outillage, pose simple Découpage aux dimensions des dalles Les plaques sont fixées entre elles par des tôles de notre fourniture	

- Natural frequency of the floating slab being a function of its mass, we will communicate this value by calculation note according to the loads specifications.

Reference	Permanent load Minimum recommended	Permanent load Max recommended	Load dynamic Max.	overload
PL 1000.VR.4.150	240 kg	480 kg		
PL 1500.VR.6.150	360 kg (240 kg)	720 kg (480 kg)	900 kg	180 kg

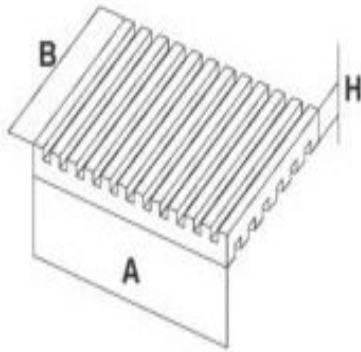
Reference	Permanent load Minimum recommended Per plate (In Kg/m ²)	Permanent load Max recommended Per plate (m ²)	Load dynamic Max.	overload
PL 1000.VR.4.250	400 kg	800	1000 kg	1400 kg
PL 1500.VR.6.250	600 (400 kg)	1200 kg (800 kg)	1500 kg	300 kg

Reference	Deflection minimum Load mm	Deflection maximum Load mm	Stiffness Load max.
PL 1000.VR.4.150	10	20	240 N/mm
PL 1500.VR.6.150	10	20	360 N/mm
PL 1000.VR.4.250	10	20	400 N/mm
PL 1500.VR.6.250	10	20	600 N/mm

PLAKISOL 45



2 SIDED GROOVED PLATE



Elastomer	NBR High elasticity Profile grooved 2 faces
Dimensions	450x450x08 225x225x08 100x100x08 50x50x08 + cut
Coef. Friction	0.7
Temperature	- 25° C / + 80° C
Mounting	Surface pad > the support surface Overlapping of thicknesses is possible for 3 or 4 thicknesses of 2mm sheet metal

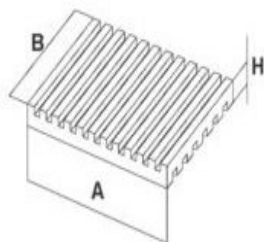
Precision leveling	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
lateral stability	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 450x450		±5	Kg/cm ²	kg	0.10	0.20	0.40	0.60	0.80
PLAKISOL 45.450-335	08	35	0.80	1600	0.30mm (28.9Hz)	0.48mm (22.8 Hz)	0.81mm (17.6 Hz)	1.10mm (15 Hz)	1.40mm (13.30Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 450x450		±5	Kg/cm ²	kg	0.30	1	1.60	2.00	2.60
PLAKISOL 45.450-345	08	45	2.60	5200	0.50mm (22.3Hz)	0.78mm (17.9 Hz)	1mm (15.8 Hz)	1.17mm (12.13 Hz)	1.40mm (13.40Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 450x450		±5	Kg/cm ²	kg	1.5	2.5	3.5	4.5	5
PLAKISOL 45.450-365	08	65	5	10000	0.58mm (21.8Hz)	0.81mm (18.6 Hz)	1.05mm (16.4 Hz)	1.30mm (14.90 Hz)	1.42mm (14.25Hz)

2 SIDED GROOVED PLATE



Features

- Resists aging
- Easy to cut
- Cost
- Perfect adhesion and grip on the ground
- Wide load range
- No fluid retention

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 225x225		±5	Kg/cm ²	kg	0.10	0.20	0.40	0.60	0.80
PLAKISOL 45.225-335	08	35	0.80	390	0.30mm (28.9Hz)	0.48mm (22.8 Hz)	0.81mm (17.6 Hz)	1.10mm (15 Hz)	1.40mm (13.30Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 225x225		±5	Kg/cm ²	kg	0.30	1	1.60	2.00	2.60
PLAKISOL 45.225-345	08	45	2.60	1300	0.50mm (22.3Hz)	0.78mm (17.9 Hz)	1mm (15.8 Hz)	1.17mm (12.13 Hz)	1.40mm (13.40Hz)

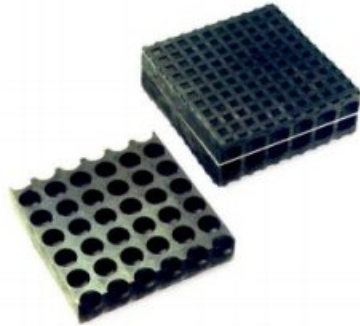
typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 225x225		±5	Kg/cm ²	Kg	1.5	2.5	3.5	4.5	5
PLAKISOL 45.225-365	08	65	5	2400	0.58mm (21.8Hz)	0.81mm (18.6 Hz)	1.05mm (16.4 Hz)	1.30mm (14.90 Hz)	1.42mm (14.25Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 100x100		±5	Kg/cm ²	kg	0.10	0.20	0.40	0.60	0.80
PLAKISOL 45.100-335	08	35	0.80	80	0.30mm (28.9Hz)	0.48mm (22.8 Hz)	0.81mm (17.6 Hz)	1.10mm (15 Hz)	1.40mm (13.30Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 100x100		±5	Kg/cm ²	kg	0.30	1	1.60	2.00	2.60
PLAKISOL 45.100-345	08	45	2.60	260	0.50mm (22.3Hz)	0.78mm (17.9 Hz)	1mm (15.8 Hz)	1.17mm (12.13 Hz)	1.40mm (13.40Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 100x100		±5	Kg/cm ²	Kg	1.5	2.5	3.5	4.5	5
PLAKISOL 45.100-365	08	65	5	500	0.58mm (21.8Hz)	0.81mm (18.6 Hz)	1.05mm (16.4 Hz)	1.30mm (14.90 Hz)	1.42mm (14.25Hz)

DAMPER ISOLATOR HIGH PERFORMANCE



Elastomer	VIBRADAMP[®]
Dimensions	500 x 500 x 25mm ou 52mm 250x250x25mm 100x100x25 mm
Load capacity	1 à 8 kg/cm ²
Friction coef.	0.6
Temperature	-30° +70°
Rapport de rigidité Statique/ dynamique	3
Damping C/Cc	0.12
Resistance	Oils, greases, chemicals agents
Profil	1 side with holes to increase elasticity the other side with anti-slip profile.
Combinaison	Mounting Multi-thickness combined

Precision leveling	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vibration isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Shock damping	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Oil Grease Ozone resistance...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Construction-borne noise isolation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
lateral stability	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

typ	Dimensions	Hardness	Load
Plakisol	mm	Shore A	Max.
IM		±5	Kg
IM 50.25.50	500x500x25	50	7.500
IM 50.25.70	500x500x25	70	20.000
IM 25.25.25	250x250x25	50	1.875
IM 25.25.25	250x250x25	70	5.000
IM 10.25.25	100x100x25	50	300
IM 10.25..50	100x100x25	70	500

typ	Thick-ness	Hard-ness	Load	Deflection (Natural frequency Hz)						
Plakisol	mm	Shore A	Max.	Load in kg/cm ²						
IM		±5	Kg/cm ²	0.50	1	2	2.5	3	5	8
IM xx.25.50	25	50	3	0.71 (18Hz)	1.50 (13 Hz)	2.66 (10 Hz)	3.30 (9 Hz)	4.00 (7.9Hz)		
IM xx.50.50	52	50	3	1.76 (12 Hz)	3.00 (10.2Hz)	5.63 (7.7 Hz)	6.87 (7.03Hz)	8.00 (6.6 Hz)		
IM xx.25.70	25	70	8		0.81 (18.6 Hz)	1.30 (14.9 Hz)	1.55 (13.7 Hz)	1.81 (12.8 Hz)	2.85 (10.4Hz)	4.25 (7.7Hz)
IM xx.50.70	52	70	8		1.62 (13.4 Hz)	2.62 (10.8 Hz)	3.14 (9.9 Hz)	3.66 (9.3 Hz)	5.78 (7.6Hz)	8.50 (6.3Hz)



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