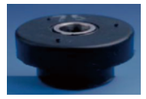


Armor





Windshield vibration isolation

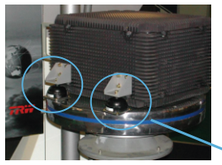
- Market: Armored Vehicles
- Application: Air conditioning







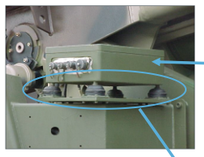
- Market: Armored Vehicles
- Application: Electronic devices







- Market: Armored Vehicles
- Application: Shell Launch Control Unit



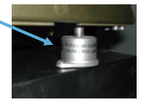




- Market: Armored Vehicles
- Application: Thermal imaging equipment







GoldenFuture(Shanghai)IndustrialCo.,Ltd

No. 267 Jiachang Road, Jiading District, Shanghai

TEL:021-59923962

FAX:021-59923965

E-mail:James_weiwei@163.com

http//:www.shxqsy.cn

鑫前 GoldenFuture

DESICN

公司画册



GoldenFuture(Shanghai)IndustrialCo.,Ltd

鑫前
GoldenFuture



Rubber elastomer vibration reduction

A comprehensive solution for noise and vibration isolation, providing efficient impact protection.



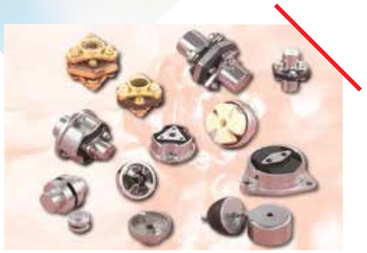
Metal vibration reduction

A complete set of metal vibration reduction solutions covering all elastic ranges and the entire lifecycle, capable of adapting to various harsh working conditions.



BUSHING

Very effective in reducing shaking and friction, the lining effectively reduces noise and improves the durability of moving parts.



Flexible couplingTorque

range 2.5~1000000N. m. Effective compensation for radialAxial and deflection angles, as well as irregular pairing.



Dynamic sealing

Sealing of the rotating shaft. Through the combination of different materials and forms, there are over 2000 products and continuous research and development of new products to meet the needs of the industrial market.

www.shxqsy.cn



Company Profile

Golden Future (Shanghai) Industrial Co.,Ltd is a company specializing in vibration reduction (design, calculation, testing, technical solutions)A company in the industry, established in 2015, located in Jiading Industrial Zone, Shanghai, dedicated to the research and development of vibration and noise controlAfter 10 years of experience with sales enterprises and companies, we have a professional technical team covering an area of 3000 square meters. Our business scope includes product development Develop rubber models and anti vibration solutions for the automotive, off-road , and industrial sectors. From engine and cab resistanceVibration installation on suspension systems for trucks and excavators , buses and commercial vehicles , agricultural machinery and mining equipment (cone crushers, vibrating screens, etc.) Centrifugal machines, engineering machinery (excavators, loaders, bulldozers, rollers, mining trucks, etc.), rail transportation, ships, and other non road vehiclesSurface machinery, as well as other industrial applications.

The company has always adhered to the business philosophy of innovation and pursuit of excellence; Customer satisfaction is our constant pursuitMark. We always prioritize quality and further improve our service system to enhance service quality. We are committed tol hope to create brilliance with both new and old customers!!



RADIAFLEX ®

Describe

Metal parts: galvanized steel sheet;
Rubber: cylindrical natural rubber;
Product structure: 5 types (single-sided stud, single-sided screw hole, double-sided stud, double-sided screw hole, combination type).

This series of products includes bolt type and threaded hole type. Due to the inconsistency between EU standards and French standards,
Paulstra also has Radiaflex products that correspond to EU standards.

Product characteristics

The design of this product has the following basic characteristics:

- Axial stiffness is greater than radial stiffness
- Rubber can withstand:
  -Compression (axial)
  -Shear (radial)
  -Simultaneously withstand compressive and shear forces.

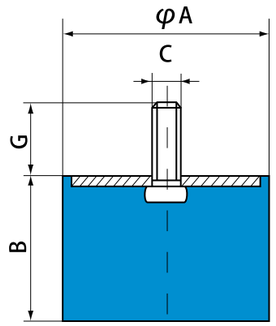
Advantages:
- Easy to install;
- Low cost.

- Complete variety:
  -13 different diameters of bolts;
  -Each type of bolt corresponds to several different heights:
  -5 installation methods

- Recommend:
  Under conditions where the radial force is not very large, the lateral vibration isolation effect is more significant.

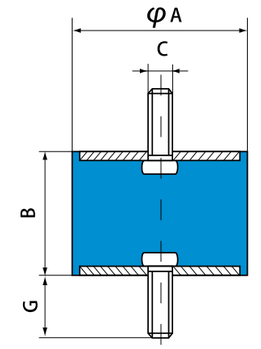
Specifications, dimensions, and compressive load

Unilateral stud



Ø A (mm)	B (mm)	C	G (mm)	Compress		PRODUCT MODEL
				Maximum Load (daN)	Deformation amount (mm)	
12,5	10 13,5 15 20	M5	10	12 11 10 8	2 2,5 3 3,5	**511110** **511128** **511115** **511125**
16	10 15	M4	10	20	2 3	**511150** **511151**
	10 15 20 25	M5	12	20 20 15 15	2 3 4 5	**511292** **511294** **511296** **511298**
20	5 8,5	M6	10	77 40	0,6 1,5	**511206** **511200/11**
	8,5 15 20 25 30	M6	16,5	40 35 30 30 25	1,5 4 5 5,5 7	**511200** **511215** **511220** **511225** **511230**
25,5	10 15 20 30	M6	18	80 60 50 50	2 3,5 5 8	**511158** **511155** **511159** **511160**
	5 10 15	M8	20	82 80 60	0,6 2 3,5	**511265/50** **511265** **511270**
	15	M8	12	60	3,5	**311270/13**
	19 22 25 30 40	M8	20	55 50 50 50 50	4,5 5,5 6 8 10	**511251** **511275** **511280** **511285** **511290**
30	15 22 30 40	M8	25	90 80 70 60	3,5 6 8 9	**511308** **511310** **511312** **511314**
40	30 40	M8	20	120 120	7 10	**511157** **511161**
	20 25 35 40 45	M10	25	160 150 120 120 120	5 6 8 10 11	**511450** **511401** **511452** **511454** **511456**
50	25 35 45	M10	25	300 250 190	6 9 11	**511525** **511535** **511545**
60	22 25 36 45	M10	25	350 400 300 250	3 6 9 11	**513601** **511625** **511635** **511645**
70	35 50 70	M10	25	450 350 300	9 12 14	**511735** **511750** **511770**
80	25 30 40 70 80	M14	45 35 35 35 35	1 100 950 600 500 450	6 8 10 17 19	**513801** **511830** **511840** **511870** **511880**

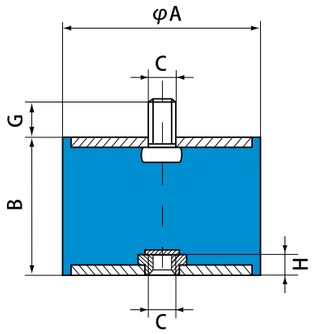
Bilateral bolts



Ø A (mm)	B (mm)	C	G (mm)	Compress		cut		PRODUCT MODEL
				Maximum Load (daN)	Deformation amount (mm)	Maximum Load (daN)	Deformation amount (mm)	
10	8	M3	6	10	1,6	1,25	0,9	View **p. 115**
12	8	M3	6	12	1,2	1,5	0,75	View **p. 115**
12,5	10 15 20	M5	10	12 10 8	2 3 3,5	1,5 2,5 2,5	1,5 2 4	**521293** **521128** **521295**
16	10 15	M4	10	20	1,5 3	2,5	1,5 2	**521650** **521651**
	10 15 20 25	M5	12	20 20 15 15	1,5 3 4 5	2,5 2,5 2,5 2	1,5 2 4 5	**521292** **521294** **521296** **521298**
20	8,5 15 20 25 30	M6	16,5	40 35 30 30 25	0,6 3 4,5 5,5 7	5 5 5 4,5 4,5	1 2,5 3,5 4,5 4,5	**521178** **521249** **521297** **521299** **521319**
25,5	10 15 20 30	M6	18	80 60 50 50	1,5 2,5 2 7,5	8 8 8 8	1,5 2,5 4 6	**521655** **521656** **521652** **521653**
	10 15 22 25 30 40	M8	20	80 60 50 50 50 50	1,5 2,5 4 5,5 7,5 10	8 8 8 8 8 6,5	1,5 2,5 4 4,5 6 6	**521340** **521341** **521251** **521342** **521343** **521344**
30	15 22 30 40	M8	25	90 80 70 60	3 5 8 9	11 11 11 11	2,5 4 6 7,5	**521308** **521310** **521312** **521314**
40	30 40	M8	20	150 120	6 10	20 20	5,5 7,5	**521181** **521657**
	20 28 35 40 45	M10	25	160 150 120 120 120	4 6 8 10 11	20 20 20 20 20	3 5,5 6,5 7,5 9	**521450** **521401** **521452** **521454** **521456**
50	25 35 45	M10	25	300 250 190	6 8 11	25 25 25	4,5 7 9	**521580** **521581** **521582**
	45	M10	15	190	11	25	9	**521582/15**
60	25 36 45	M10	25	400 300 250	5 8 11	30 30 30	4,5 7 9	**521601** **521603** **521641**
70	35 50 70	M10	25	450 350 300	8 11 14	35 35 35	6,5 11 15	**521705** **521710** **521711**
80	40	M12	28	600	9	40	7	**521658**
	30 30 40 70 80	M14	45 35 35 35 35	950 950 600 500 450	7 7 9 17 19	40 40 40 40 40	5 5 7 15 17	**521803** **521840** **521841** **521842** **521843**
100	40 55 80	M16	47	1 100 900 750	8 12 19	60 60 60	7 10 17	**521908** **521909** **521910**

* The shear force is the transverse shear force.

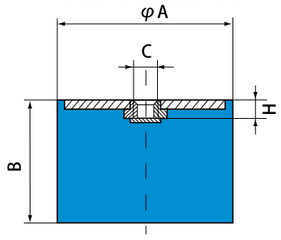
mixed type



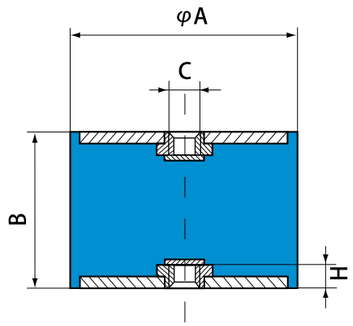
Ø A (mm)	B (mm)	C	G (mm)	H (mm)	Compress		cut*		PRODUCT MODEL
					Maximum Load (daN)	Deformation amount (mm)	Maximum Load (daN)	Deformation amount (mm)	
16	10	M4	10	2	20	1,5	2,5	1M5	520053
	15					3		2M5	520054
	10	M5	12	3	20	1,5	2,5	1,5	520010
	15				20	3	2,5	2	520011
	20				15	4	2,5	4	520012
	25				15	5	2	5	520013
20	15	M6	16,5	4	35	2,5	5	2,5	520015
	20				30	4,5	5	5	520016
	25				30	5,5	4,5	4,5	520017
	30				25	7	4,5	4,5	520018
25,5	15	M6	18	4	60	2,5	8	8,5	520052
	20				50	3,5	8	4	520055
	30				50	7,5	8	6	520057
	22	M8	20	6	50	3,5	8	4	520021
	25				50	5	8	4,5	520022
	30				50	7,5	8	6	520023
	40				50	10	6	6	520024
30	15	M8	25	6	90	3	11	2,5	520025
	22				80	4,5	11	4	520026
	30				70	7,5	11	6	520027
	40				60	9	11	7,5	520028
40	30	M8	20	6	150	4,5	20	5,5	520056
	40				120	10	20	7,5	520058
	20	M10	25	8	160	4	20	3	520029
	28				150	5	20	5,5	520030
	35				120	7,5	20	6,5	520031
	40				120	10	20	7,5	520032
	45				120	11	20	9	520033
50	45	M10	15	8	190	11	25	9	520036/15
	35	M10	25	8	250	8	25	7	520035
	45				190	11	25	9	520036
60	36	M10	25	8	300	8	30	7	520038
	45				250	10	30	9	520039
70	35	M10	25	9	450	7,5	35	6,5	520040
	50				350	10	35	11	520041
	70				300	14	35	15	520042
80	40	M12	28	10	600	8	40	7	520059
	40	M14	35	12	600	8	40	7	520044
	70				500	17	40	15	520045
	80				450	19	40	17	520046
100	40	M16	47	14	1 100	8	60	7	520100
	55				900	12	60	10	520101
	80				750	19	60	17	520102
	100				600	23	60	20	520103

Ø 16 Products with bolt holes are equipped with quick nuts for installation.
The maximum torque is 1.8m N

One end threaded hole



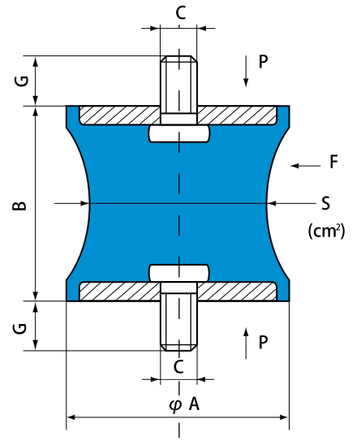
Double screw hole



Ø A (mm)	B (mm)	C	H (mm)	Compress		cut*		PRODUCT MODEL
				Maximum Load (daN)	Deformation amount (mm)	Maximum Load (daN)	Deformation amount (mm)	
16	10	M4	2,5	20	1,5	2,5	1,5	520550
	15			20	3	2,5	2	520551
	10	M5	3	20	1,5	2,5	1,5	520500
	15			20	3	2,5	2	520501
	20			15	4	2,5	4	520502
	25			15	5	2	5	520503
20	15	M6	4	35	2,5	5	2,5	520505
	20			30	4,5	5	3,5	520506
	25			30	5,5	4,5	4,5	520507
	30			25	7	4,5	4,5	520508
25,5	20	M6	4	50	3	8	4	520554
	30			50	7,5	8	6	520555
	22	M8	6	50	3	8	4	520511
	25			50	4,5	8	4,5	520512
	30			50	7,5	8	6	520513
	40			50	10	6	6	520514
30	22	M8	6	80	4	11	4	520516
	30			70	7,5	11	6	520517
	40			60	9	11	7,5	520518
40	30	M8	6	150	4,5	20	5,5	520552
	40			120	10	20	7,5	520553
	28	M10	8	150	4,5	20	5,5	520520
	35			120	7	20	6,5	520521
	40			120	10	20	7,5	520522
	45			120	11	20	9	520523
50	35	M10	8	250	7	25	7	520525
	45			190	10	25	9	520526
60	36	M10	8	300	7	30	7	520528
	45			250	9	30	9	520529
70	35	M10	9	450	7	35	6,5	520530
	50			350	9	35	11	520531
	70			300	14	35	15	520532
80	40	M12	10	600	7	40	7,5	520556
	40	M14	12	600	7	40	7	520534
	70			500	17	40	15	520535
	80			450	19	40	17	520536
100	40	M16	14	1 110	8	60	7	520541
	55			900	12	60	10	520542
	60			1 100	8	180	10	520545
	75			600	10	140	12	520546
	80			750	19	60	17	520543
	100			600	23	60	20	520547

Ø A (mm)	B (mm)	C	H (mm)	Compress		PRODUCT MODEL
				Maximum Load (daN)	Deformation amount (mm)	
16	10	M4	2,5	20	2	511152
	15			20	3	511153
20	15	M6	4	35	4	511154
25,5	15	M6	4	60	3,5	511164
	20			55	5,5	511162
	30			50	8	511163
30	22	M8	6	80	6	511156
50	20	M10	10	343	3,4	511168

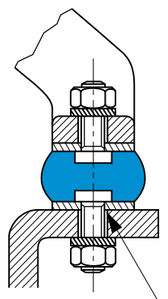
Hollow bolt type



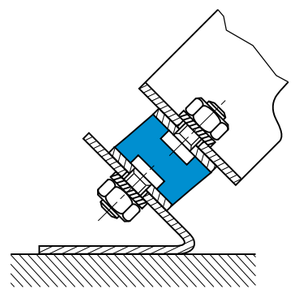
P A (mm)	B (mm)	C	G (mm)	S (cm²)	Compress		cut		PRODUCT MODEL
					Maximum Load (daN)	Deformation amount (mm)	Maximum Load (daN)	Deformation amount (mm)	
12,5	14	M5	10	0,3	3	1,4	0,5	1,2	521300
20	19	M6	16,5	1,6	12	2,5	3	5	521201
40	28	M10	25	3,1	30	5	2,5	4,5	521403
57	44	M8	20	5	40	5	7	5	521571
57	44	M8	20	9,5	75	5	12	6	521572
60	60	M10	25	19,5	150	8	30	10	521602
80	70	M14	35	38,5	300	9,5	55	9,5	521801
95	76	M16	45	50	400	9,5	70	8	521951

P A (mm)	B (mm)	C	G (mm)	S (cm²)	Compress		cut		PRODUCT MODEL
					Maximum Load (daN)	Deformation amount (mm)	Maximum Load (daN)	Deformation amount (mm)	
80	60	M14	15,5	38,5	250	5	70	8	521802

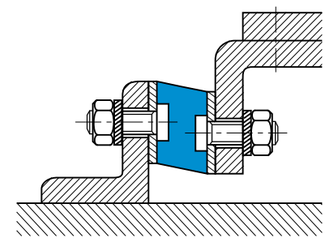
Install



Compress



Compress/cut



cut

For example：521401：M10x150 chamfer=1,5mm
521951: M16x200 chamfer= 2 mm



PAULSTRADYN ®

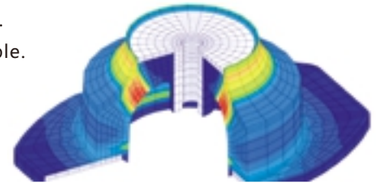
natural frequency(1)
- 轴向： 7Hz
- 径向： 3 - 5,5 Hz

Describe

- At rated load and external excitation of 1500RPM (25Hz), the isolation rate can reach 90%.
- It can maintain a constant height within a wide range of loads.
- Within its lifespan, the mechanical characteristics remain stable.
- The salt spray resistance can reach 500 hours.
- Easy to install.
- Excellent design.

* Please install according to the installation guide

Elastic element=SILTECH
- Stiffness is less affected by external excitation
- low creep



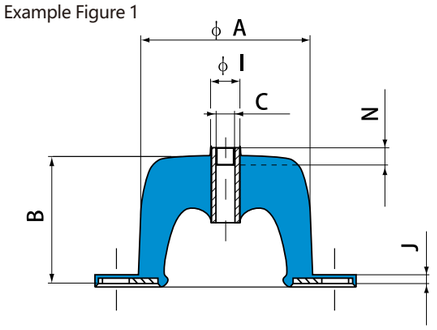
The finite element analysis model Paulstradyn has a large compression capacity. In order to reduce elastic stress and improve product performance, finite element analysis was used in the design.

Mainly used for vibration isolation of stationary equipment:
- Rotating equipment such as fans, air conditioners, compressors, generators, water pumps, etc
- Pipeline equipment, roof lifting, transformers, electrical enclosures

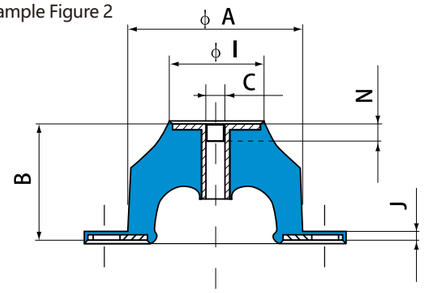
(1) Natural frequency under maximum or minimum load: refer to operating parameters.

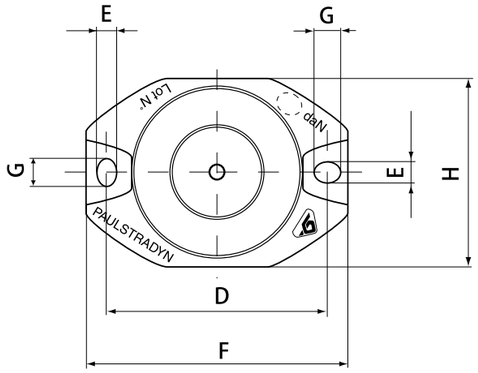
Size

Example Figure 1



Example Figure 2





Name	Model	(daN)	Fig	Size (mm)										
				PA	B*	C	D	E	F	G	H	PI	J	N
Paulstradyn® 4	533701	4	1	40	40	M6	52	6,2	64	6,2	44	12	2,5	6
7	533702	7												
12	533703	12												
Paulstradyn® 20	533704	20	2	60	40	M6	76	6,2	90	8,2	64	32	2,5	6
30	533705	30												
50	533706	50												
Paulstradyn® 70	533707	70	2	80	40	M8	100	8,2	122	12,2	84	48	2,5	12
100	533708	100												
130	533709	130												
Paulstradyn®160	533710	160	2	100	40	M10	124	10,2	152	16,2	104	68	3	10
200	533711	200												
260	533712	260												
Paulstradyn® 325	533713	325	2	150	40	M12	182	12,2	214	20,2	154	116	4,5	10
400	533714	400												
500	533715	500												
Paulstradyn® 640	533716	640	2	200	40	M16	240	14,2	280	24,2	204	159	5,5	20
820	533717	820												
1050	533718	1050												
1350	533719	1350												

* Height: 40mm without load, 32mm after load (please refer to technical specifications)
Rated load: the product's rated static load in the vertical direction).



MOUNT 22000

natural frequency(1)
8 - 18 Hz

Describe

This product is composed of two elastomers (rubber) vulcanized on a metal inner tube.

- Inner pipe: steel pipe.
- Elastic body: chloroprene rubber, 5 different stiffness rubber bodies.

Run

The design of this product has the following basic characteristics:

- Oil resistant.
- The ratio of axial and radial stiffness is 1:1.
- All directions have shock absorption and noise reduction functions.

Advantages:

- It can effectively reduce structural noise.
- Good oil resistance.
- Simple economy.
- Easy to install.
- 5 different specifications, wide bearing range: axial 15-2100kg, radial<650kg
- When installing the gasket, it has a good anti rebound effect.

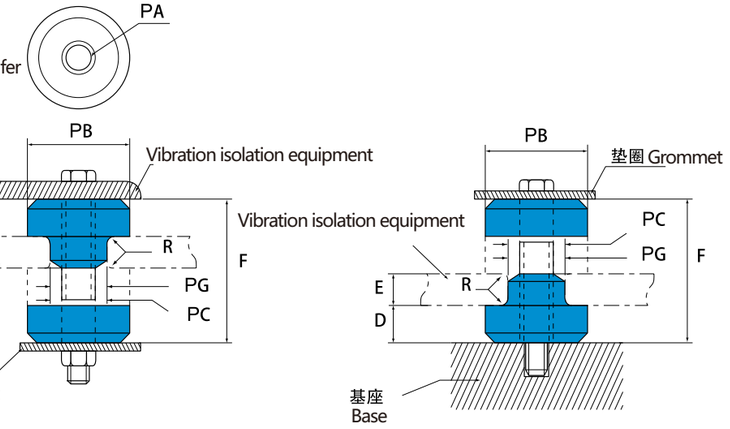
Application

This product can be well applied to both stationary and mobile devices, such as pumps and compressors. Generator, electronic equipment, HVAC equipment, industrial internal combustion engine, gearbox, cab, Radiators, etc

(1) The natural frequency under maximum or minimum load, please refer to: Operating characteristics.

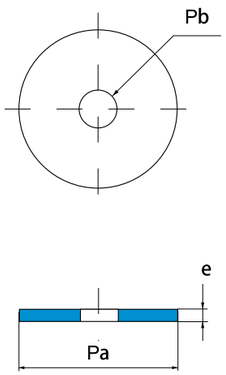
Dimensions and operational characteristics

G: P installation hole
C: P elastomer
F: Natural height
R: Radius requirement chamfer



E: The thickness of the supporting structure can be divided into two types based on the required natural frequency and load: E1 and E2 (see table below)

Paulstra	Barry Controls*	PA (mm)	PB (mm)	PC (mm)	D (mm)	F (mm)	Mounting Hole		Weight (g)
							PG (mm)	R (mm)	
530903 11 至 15	22001-11至15	10,4	33,2	20,1	12,3	31,7	19	1	43
530903 21 至 25	22002-11至15	13,5	47,7	33	19,8	49,2	31,7	1,5	142
530903 31 至 35	22003-11至15	16,7	64,8	40,1	22,8	61,7	38,1	2,3	313
530903 41 至 45	22004-11至15	23,8	88,9	58,4	25,4	73,1	57,1	3	670
530903 51 至 55	*22005-11 至15*	27	123,9	64,8	31,7	85,8	63,5	3	1 306



We recommend using shims to ensure good performance of the suspension system in impact environments and to adapt well to changes in static and dynamic loads.

Paulstra	Gasket*			
	Pa (mm)	Pb (mm)	e (mm)	Weight (g)
530903 11 至 15	39,6	10,3	2,2	24
530903 21 至 25	54,1	13,5	3,4	54
530903 31 至 35	71,3	16,7	4,7	140
530903 41 至 45	98,5	23,8	6,3	368
530903 51至 55	133,3	27,0	9,5	991

* Refer to the given product model



MOUNT 44000

natural frequency(1)
10-15 Hz

Application

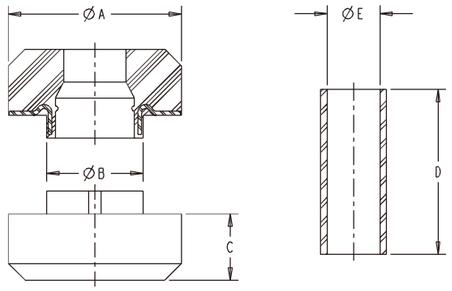
Can be used for vibration isolation of stationary or mobile devices, such as engines, cabins ECU、HVAC、Compressors, radiators, motors, etc.

Advantage

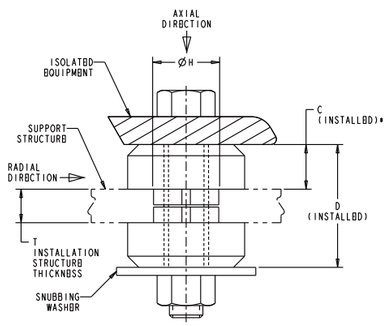
Good vibration isolation and noise reduction effect.
Strong adaptability to the environment, able to withstand various oil stains and chemical corrosion (depending on the type of adhesive used)
High cost-effectiveness.
The installation method is the same as 22000, and the anti buffer gasket has a fail safe function.
There are five different size series, each of which is divided into five different stiffness models with a wide load-bearing range (18kg~2068kg).
The axial and radial stiffness ratio of 4:1 is more conducive to vibration decoupling.

Technical Parameter

SIZE	Ø A		Ø B		C		D		Ø E	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
44001	1.31	33.3	.730	18.5	0.50	12.7	1.25	31.8	.397	10.1
44002	1.88	47.8	1.23	31.2	0.78	19.8	1.94	49.3	.532	13.5
44003	2.55	64.8	1.48	37.6	0.90	22.9	2.43	61.7	.657	16.7
44004	3.50	89.0	2.23	56.6	1.00	25.4	2.88	73.2	.938	23.8
44005	4.88	124.0	2.47	62.7	1.25	31.8	3.38	85.9	1.063	27.0



Model	Rated load kg	Plate thickness mm	Color code	Model	Rated load kg	Plate thickness mm	Color code
44001-1/11	18	9.5	红 / 红&白	440041/11	122	28.5	红 / 红&白
44001-2/12	41		黄 / 黄&白	440042/12	231		黄 / 黄&白
44001-3/13	64		绿 / 绿&白	440043/13	349		绿 / 绿&白
44001-4/14	113		蓝 / 蓝&白	440044/14	530		蓝 / 蓝&白
44001-5/15	136		紫 / 紫&白	440045/15	952		紫 / 紫&白
44002-1/11	59	14	红 / 红&白	440051/11	517	32	红 / 红&白
44002-2/12	79		黄 / 黄&白	440052/12	875		黄 / 黄&白
44002-3/13	109		绿 / 绿&白	440053/13	1170		绿 / 绿&白
44002-4/14	172		蓝 / 蓝&白	440054/14	1605		蓝 / 蓝&白
44002-5/15	286		紫 / 紫&白	440055/15	2068		紫 / 紫&白
44003-1/11	95	22	红 / 红&白				
44003-2/12	159		黄 / 黄&白				
44003-3/13	222		绿 / 绿&白				
44003-4/14	350		蓝 / 蓝&白				
44003-5/15	500		紫 / 紫&白				





EVIDGOM ®

natural frequency(1)
2,5 - 7 Hz

Describe

EVIDGOM ® The bracket is a highly flexible elastic support formed by two conical elastic bodies connected to each other at the bottom.
3 types:
- EVIDDOM for pure rubber products ®.
- EVIDDOM vulcanized together with the installation base ®.
- EVIDDOM with diamond or square mounting base ®.

Run

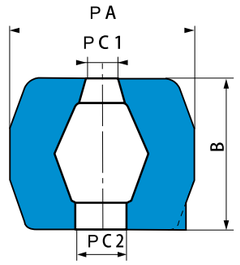
EVIDGOM ® The bracket has the following design features
- The axial elasticity is very high.
- A lower natural frequency (<7Hz)
- Effectively buffers shocks and unexpected overloads.

Advantages:
- Due to the obvious inflection point of the load/displacement curve, the suspension can be
- designed with an inherent damping of an elastic body that has greater energy absorption capacity than static deformation, which has significant advantages over metal spring damping bodies.

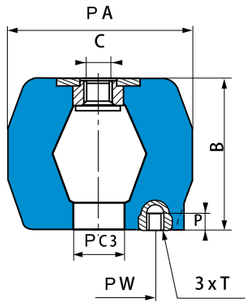
Recommend:
- Choosing products with low natural frequency (large deformation) requires special attention
- to the stability of the supporting equipment (high equipment). In some cases (using maximum load), it is recommended to use lateral limit blocks.

(1) The natural frequency under maximum or minimum load, please refer to: Operating characteristics.

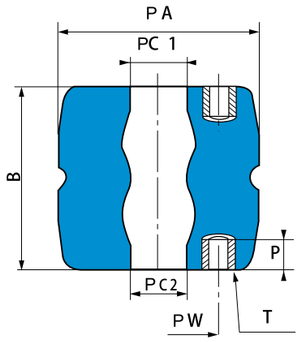
Size



Example Figure 1



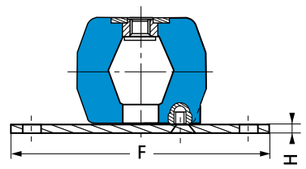
Example Figure 2

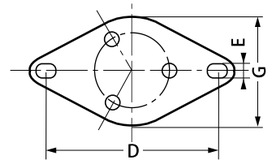


Example Figure 3

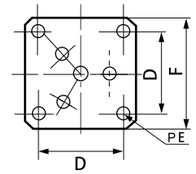
PA (mm)	B (mm)	EVIDGOM® Rubber	Example	Attachments	Example	C	PC1 (mm)	PC2 (mm)	PC3 (mm)	PW (mm)	T	P (mm)
34	25	810002	1	-	-	-	8	8	-	-	-	-
40	55	810003	1	-	-	-	14	14	-	-	-	-
50	70	810005	1	-	-	-	14	14	-	-	-	-
60	40	-	-	810780	2	M10	-	25	25	40	M6	6
85	70	810006	1	810766	2	M16	20	30	30	60	M8	8
95	90	810008	1	810768	2	M16	20	30	30	60	M8	8
108	90	810009	1	810769	2	M16	20	30	34	70	M10	10
120	110	810012	1	-	-	-	20	30	-	-	-	-
140	120	810013	1	810773	2	M16	25	40	35	70	M10	10
125	140	810014	1	810784	2	M16	25	30	25	70	M10	10
140	90	810019	1	810779	2	M16	28	12	28	70	M10	10
140	56	810020	1	810770	2	M16	30	30	30	70	M10	10
155	150	810015	1	810775	2	M16	25	30	30	90	M14	14
188	180	810016	1	810776	2	M24	40	40	40	90	M14	14
250	230	-	-	810733	3	-	70	70	-	150	6 X M24	40
350	290	-	-	810736	3	-	85	85	-	196	8 X M24	40

Bottom installation surface



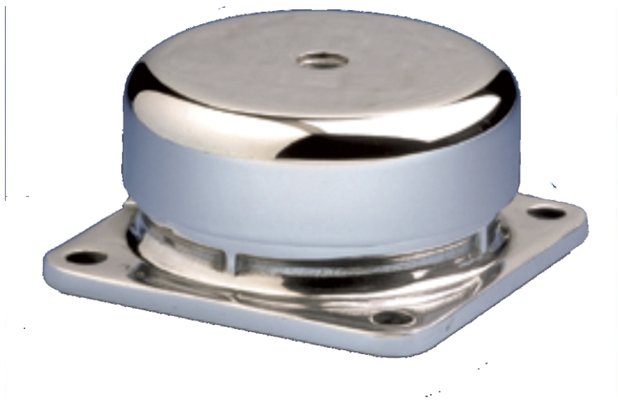


Example Figure a



Example Figure b

EVIDGOM® type	Installation steps reference	Example	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
810780	337566	a	98/102	8,2	117	65	5
810766	337567	a	124/128	10,2	158	110	5
810768	337567	a	124/128	10,2	158	110	5
810769	337568	a	178/182	10,2	214	150	6
810773	337568	a	178/182	10,2	214	150	6
810784	337568	a	178/182	10,2	214	150	6
810779	337568	a	178/182	10,2	214	150	6
810770	337568	a	178/182	10,2	214	150	6
810775	337569	b	170	10,5	200	-	8
810776	337569	b	170	10,5	200	-	8



STABIFLEX

natural frequency(1)
6 -11 Hz

Describe

This type of product consists of a conical rubber elastomer and two metal parts inside and outside

- The central hole is a threaded hole.
- 2-hole diamond shaped or 4-hole square mounting base.
- The bottom is covered with natural rubber and anti slip beads.
- The cup-shaped top cover can protect the rubber body and distribute the load

Run

The design of this product has the following basic features:

- Radial stiffness is 2-3 times the axial stiffness.
- Rubber can withstand both compression and shear forces simultaneously.
- It has good buffering and anti slip properties for impact and overload
- Anti slip (can be placed directly on the floor).

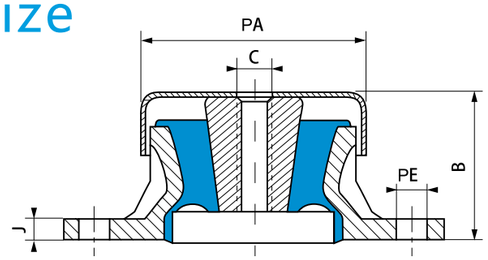
Advantage:

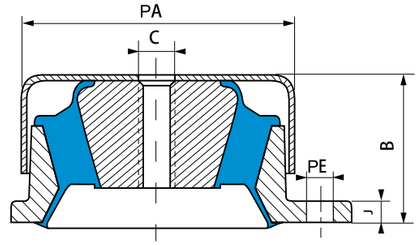
- The device can be placed directly on the ground.
- Fast installation speed.Easy to move devices.
- Protect rubber from harmful liquids.
- Wide selection range: Stabiflex has 5 types of products with different structural sizes, each with 3 different hardness options to choose from
- Optimal combinations can be made based on the load and external excitation.
- Anti rebound gaskets can be used.

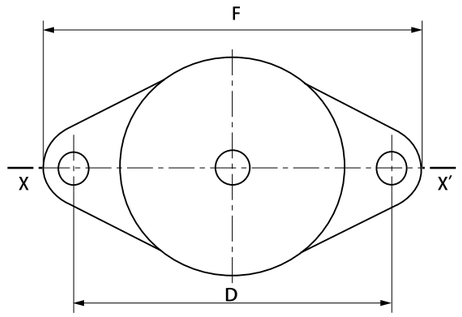
Recommend:

- In order not to affect the vibration reduction effect, all external connections must be flexible.
- The product must be installed vertically and bear loads along the axial direction.

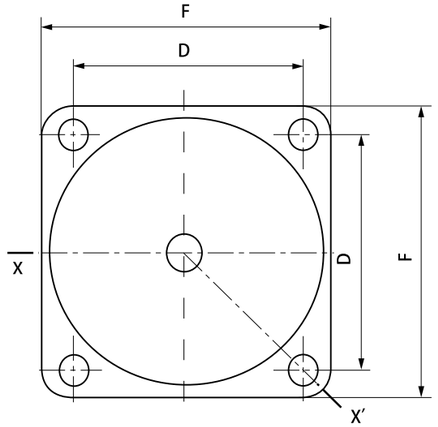
Size







STABIFLEX - Diamond shaped



BaseSTABIFLEX - Square Base

type	model	hardness	P A (mm)	B (mm)	C	D (mm)	E (mm)	F (mm)	J (mm)	Weight (g)
Diamond base	530603 530613	45.60.75 45.60.75	69 84	41 51	M12 M12	98 115	9 11	114 137	6 7	250 450
Square base	530622 530642 530652*	45.60.75 45.60 45.60.75	100 133 133	52 69 69	M12 M16 M16	90 114 114	11 13 13	114 144 144	7 9 9	1000 2300 2700

Application

Standard static load (daN)	Deformation amount (mm)	type	hardness
10 - 42	3,5	530603	45
15 - 60	3	530603	60
20 - 93	3,5	530613	45
30 - 125	4	530603	75
40 - 165	3,5	530613	60
50 - 210	5	530622	45
65 - 260	3	530613	75

Standard static load (daN)	Deformation amount (mm)	type	hardness
65 - 275	4,5	530622	60
95 - 380	3,5	530622	75
110 - 450	8	530642	45
175 - 700	8	530642	60
250 - 1000	8	530652	45
325 - 1300	8	530652	60
450 - 1800	8	530652	75



S.T. C

natural frequency(1)
10 -25 Hz

Describe

S. The T.C. shock absorber is made of vulcanized annular rubber and central tube.

- Central pipe material: Low carbon steel.
- The end of the annular vulcanized rubber has a flange for installation.

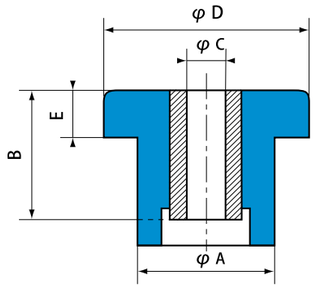
Run

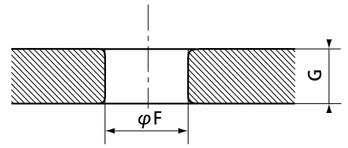
S. The design of T.C. bracket has the following basic characteristics

- During work, rubber is subjected to compressive stress.
- It has anti rebound function.
- Can be used for security protection.

Advantages:
- Easy to install.
- Simple structure and low cost.
- Wide load range.

Size





产品型号 Product model	φ A (mm)	B (mm)	φ C (mm)	φ D (mm)	E (mm)	φ F (mm)	G (mm)
539887	20,6	17,5	10	27,7	5,6	20,6	8
539190	31,5	25,4	13	44,5	10,4	31,5	10
539886	34,3	35	13	50,8	13,5	34,3	16
539191	41,1	44,5	16	63,5	15,7	41,1	19
*539920	38	23	16	64	16	38,5	19
539951	56,6	50,8	20	95	25,4	56	20

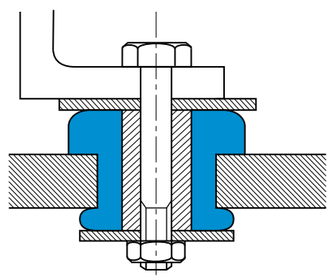
* S.T.C.需成对安装：参见图 2。

Application

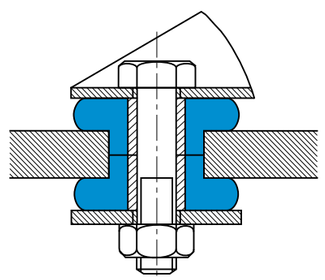
Product model	Shore A	(daN) Rated static load	(mm) strain
539887	45 60	8-35 10-50	0,7 0,7
539190	45 60	15-75 25-100	1,2 1,2
539886	60 75	35-150 80-330	1,2 1,2

Product model	Shore A	Rated static load (daN)	(mm) strain
539191	60 75	60-250 125-500	2 2
539920	45 75	100-400 250-1 000	2 1
539951	45 65	175-700 250-1 000	3 3

Application



Example Figure 1



Example Figure 2 **539920**)



500 series ear shock absorber

natural frequency(1)
8 - 18Hz

Application

- Truck, bus, ship engine generator set
- air-conditioning system
- Electronic devices
- Mobile vehicle cab
- General machinery, pumps, compressors

Advantage

- Low cost, high cost-effectiveness
- Low natural frequency, good isolation effect
- Wide bearing range
- Used in conjunction with the stop pad, it has anti failure function and isotropic stiffness, good stability, and can withstand large dynamic load impacts
- Low profile height and compact structure

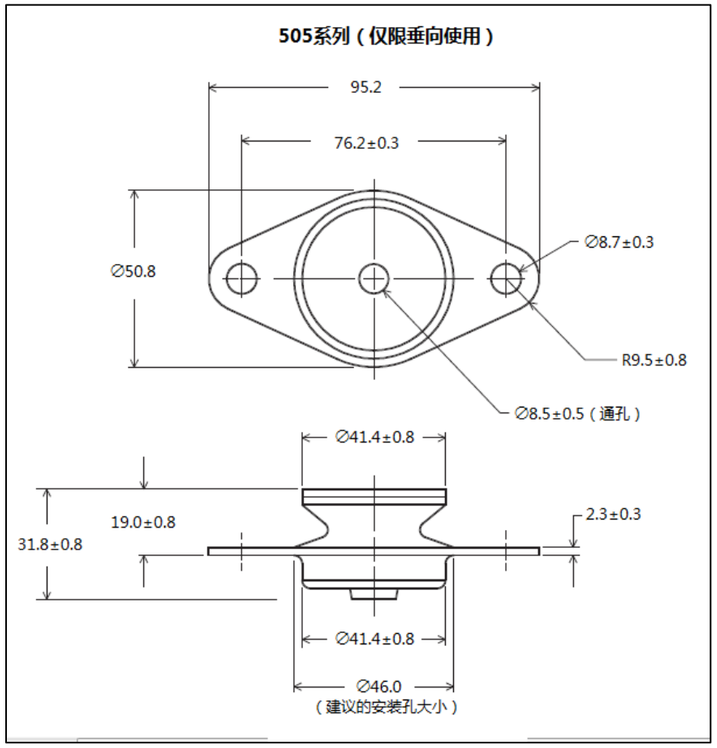
characteristic

- The ratio of axial and radial stiffness is 1:1

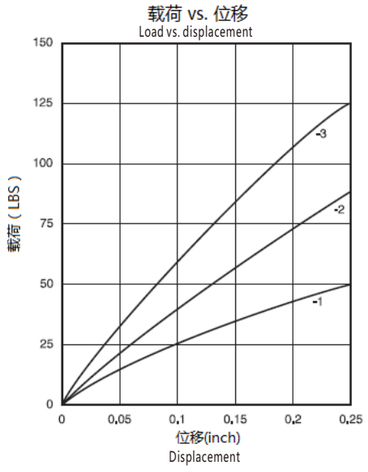
Technical index

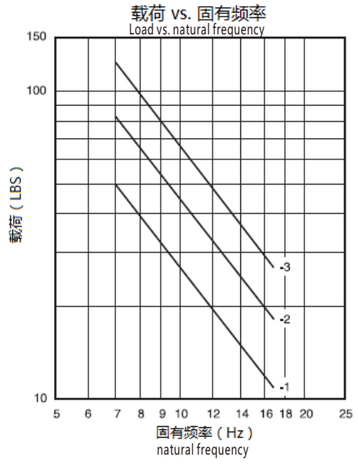
- Natural frequency: 8-18Hz
- Resonance point amplification factor: 8:1
- Elastic material default): Neoprene rubber can also choose natural rubber)
- Metal parts material default): Galvanized steel
- Working temperature: 1 chloroprene rubber -30 ℃~82 ℃, natural rubber -40 ℃~82 ℃)

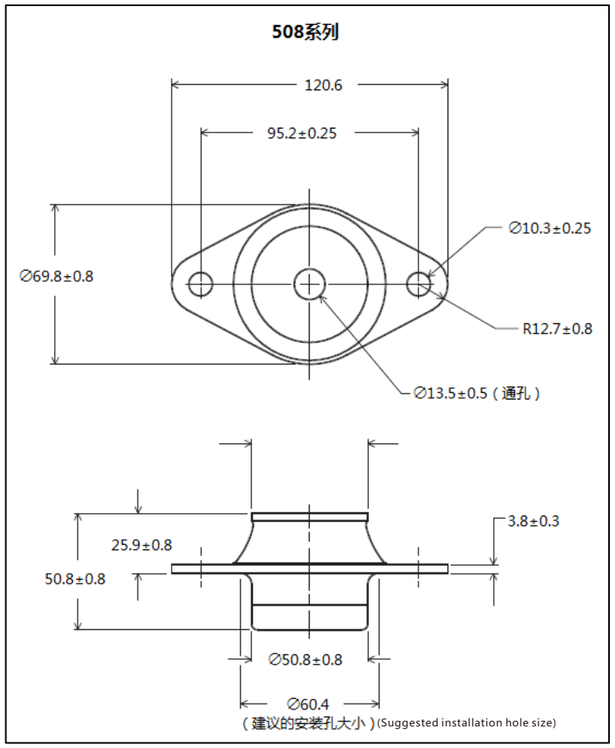
Dimensions &Performance Characteristics



505 series axial static load bearing range					Color identification
BCDI model	HIRP model	Minimum static load kg	Rated load kg	Maximum static load kg	
505-1	i520118-01	6	11	17	红&白
505-2	i520118-02	9	18	27	蓝&白
505-3	i520118-03	14	27	41	黄&白



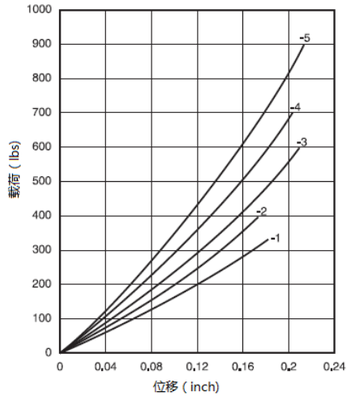




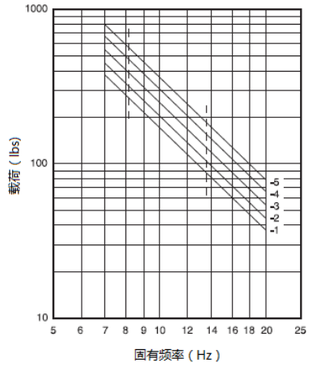
508 series static load bearing range

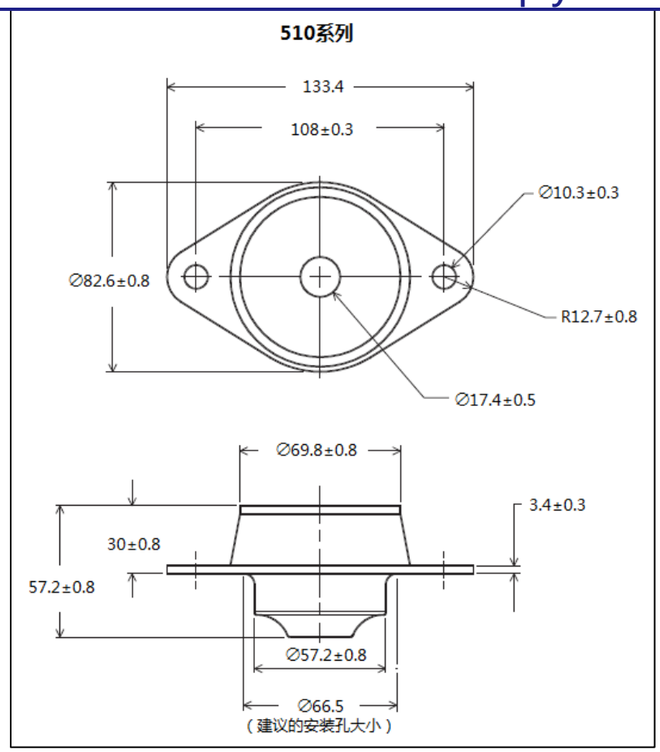
BCDI model	HIRP model	Axial		Radial		Color identification
		Rated load kg	Maximum static load kg	Rated load kg	Maximum static load kg	
508-1	i520119-01	80	120	40	80	红&白
508-2	i520119-02	100	150	50	100	橙&白
508-3	i520119-03	120	180	60	120	黄&白
508-4	i520119-04	145	215	70	145	绿&白
508-5	i520119-05	170	260	85	170	蓝&白

载荷 vs. 位移



载荷 vs. 固有频率

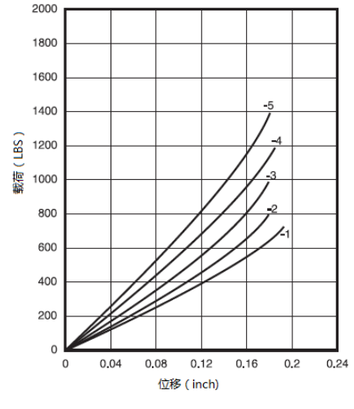




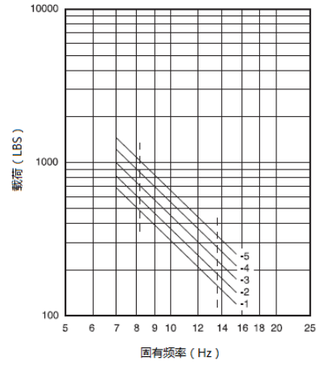
510 series static load bearing range

BCDI model	HIRP model	Axial		Radial		Color identification
		Rated load kg	Maximum static load kg	Rated load kg	Maximum static load kg	
510-1	i520314-11	145	215	68	145	红&白
510-2	i520314-12	170	260	85	170	橙&白
510-3	i520314-13	207	310	103	207	黄&白
510-4	i520314-14	252	380	126	252	绿&白
510-5	i520314-15	306	459	153	306	蓝&白

载荷 VS. 位移



载荷 VS. 固有频率



剪切力为横向剪切力。
The shear force is the transverse shear force.





Cone-shaped shock absorber

natural frequency(1)
6-30Hz

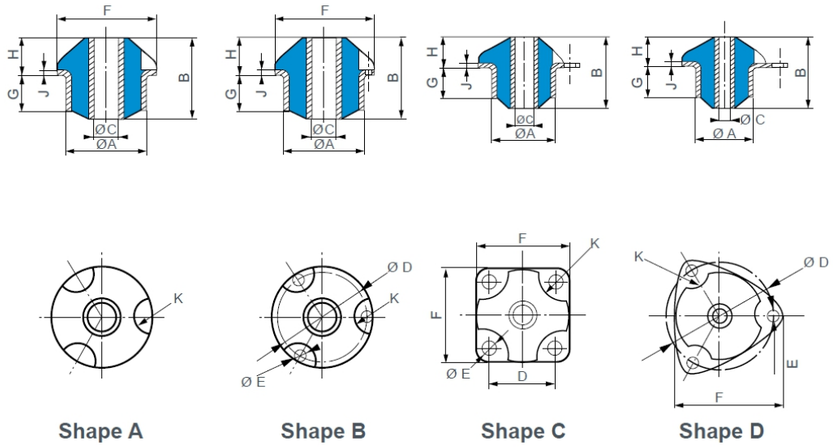
Application

Static or mobile devices, such as driver's cab, fan, air conditioner, transformer, etc

Describe

- The vertical natural frequency is low, which can provide good vibration isolation effect.
- The lateral stiffness is four times the vertical stiffness, which can maintain high stability of the equipment during vehicle operation.
- The anti buffer gasket has a fail safe function.
- Wide load range of 11kg-2600kg

Dimensions



Shape A　Shape B　Shape C　Shape D

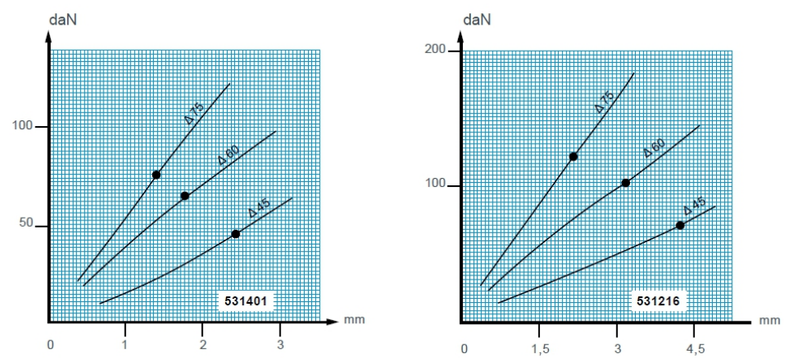
HIRP 型号	Paulstra 型号	形状	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K (mm)	Weight (g)
i520267	531401	A	37.5	40	12.1	-	-	48	18	18	2	8	110
i520247	531216	D	49.1	47	12.2	69	8.2	72	20	18	2	12	190
i520303	531261	D	66.5	93	20.2	95	8.5	107	47	28	3	18	780

For other models, please refer to the Paulstra product manual.

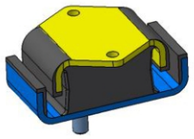
Technical Characteristics

额定载荷 kg	变形量 mm	橡胶硬度	Paulstra 型号	HIRP 型号
10-50	2.5	45	531401	i520267-01
15-65	1.8	60	531401	i520267-02
20-80	1.5	75	531401	i520267-03
15-70	4	45	531216	i520246/i520247-01
20-85	3	60	531216	i520246/i520247-02
25-110	2	75	531216	i520246/i520247-03
60-250	5	45	531261	i520303-01
85-350	3.5	60	531261	i520303-02
105-420	2	75	531261	i520303-03

Load/Deflection curves in axial compression



Engine suspension 1



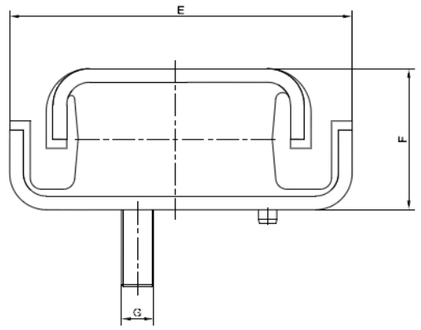
Application :

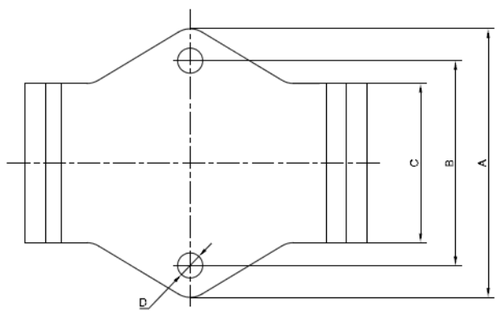
Engine suspension

Advantages:

- Good vibration and noise reduction effect:
- Economical and easy to install;
- Applicable temperature range: -40 ℃~80 ℃

Dimensions





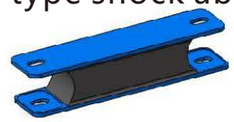
Model	A	B	C	ϕD	E	F	G	Weight
	mm	mm	mm	mm	mm	mm		Kg
I520320	118	90	70	11	150	62	M14	1.7

Characteristics

Kx, N/mm	Ky, N/mm	Kz, N/mm
125	110	700



剪切型减振器
Shear type shock absorber



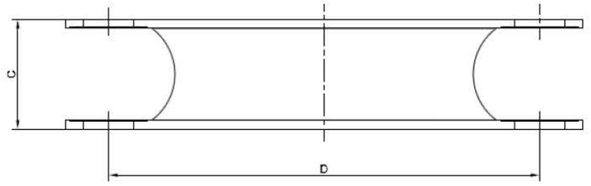
应用 Application :

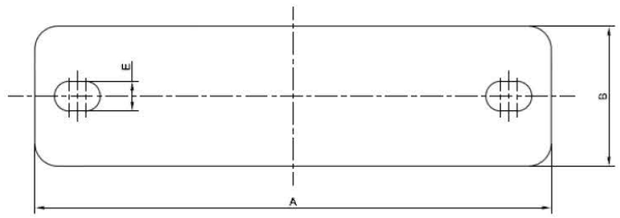
矿山设备、振动筛等。Mining equipment, vibrating screens, etc

优点 Advantages:

- 可承受剪切运动，横向最大位移可达 20mm；Capable of withstanding shear motion, with a maximum lateral displacement of 20mm and a vertical load capacity of 50kg-360kgApplicable temperature range: -50 ℃~82 ℃
- 垂向承载 50kg-360kg；
- 适用温度范围：-50℃~82℃

尺寸 Dimensions





型号	A	B	C	D	E	重量
	mm	mm	mm	mm	mm	Kg
I520255-01	225	61	48	188	13	1.1
I520255-02	225	61	48	188	13	1.1
I520255-03	225	61	48	188	13	1.1

技术参数 Characteristics

型号	硬度 SHA	额定载荷，N	变形量，mm
I520255-01	45	500~2000	0.7~2.5
I520255-02	55	1300~3600	1~3
I520255-03	45HTC	500~2000	0.7~2.5



METALLIC CUSHIONS

natural frequency(1)
12 - 25 Hz

Describe

Metal gaskets are woven, wrapped, and pressed from stainless steel to create the desired geometric shape.
Vibrac hoc has over a hundred standard metal washers of different sizes and characteristics.
Due to the easy customization nature of metal rings, they can be customized according to customers' requirements for shape and characteristics.

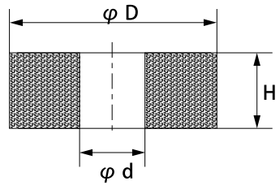
Application

Due to its corrosion resistance to grease, oil, and water, as well as its application characteristics in a large temperature range (-70 ℃ -+300 ℃), standard or customized metal gaskets can be widely used in many industrial fields;
The static stiffness of metal washers can be continuously increased to ensure a constant natural frequency under broad loads in smaller spaces.
The natural frequency of 12-25 Hz and damping ratio of 15-20% enable this type of metal gasket product to be used as an elastic gasket for rotating machinery with speeds above 2000 revolutions per minute.

(1) The natural frequency under maximum or minimum load, please refer to: Operating characteristics.

Size

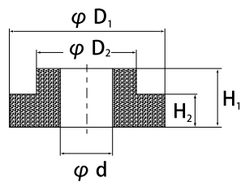
Simple cylindrical shape



If you need gaskets of other sizes and load ranges, please consult us.

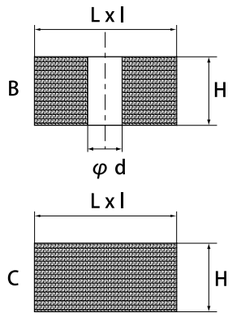
产品型号 Product model	φ 外径 D (mm)	φ 内径 d (mm)	高度 H (mm)	载荷范围 (daN)	动态力 (daN)	固有频率 (Hz)
VI168-B	53	16,5	14	20 - 250	1 250	15 - 22
V3CNVJ653-A02	33	14	19	75 - 300	900	15 - 22
CH440-A02	72	50	21	50 - 350	1 000	15 - 20
VI771-A02	40	15	20	150 - 550	1 700	15 - 20
MC345-A02	72	34	21	300 - 1 300	5 000	15 - 20
CH281-A02	119	34	21,5	700 - 2 700	12 500	15 - 20
CH283-A02	159	70	21,5	250 - 7 000	22 500	15 - 20
VI996-A02	203	121	21	250 - 7 000	22 500	15 - 20
CH438-A02	72	51	10	50 - 350	1 000	20 - 25
CH265-A02	70	34	10,5	300 - 1 300	5 000	20 - 25
CH264-A02	116	36	11	700 - 2 700	8 000	20 - 25
VI771-B02	40	15	11,5	750 - 3 000	9 000	20 - 25
CH472-A02	156	72	10,5	2 000 - 7 000	21 000	20 - 25

Cylindrical with bracket



Product model	φ D1 (mm)	φ D2 (mm)	内径d (mm)	H1 (mm)	H2 (mm)	载荷范围 (daN)	动态力 (daN)	固有频率 (Hz)
VJ148-A05	72	48	33	25	21	50 - 350	1 050	15 - 20
V3CNCH682-A05	69,5	52	34	30	23,5	50 - 300	900	15 - 20
V3CNVJ044-A05	52,6	26,5	16	21,5	14	25 - 200	600	15 - 22
V3CNVJ102-A05	49	27,5	18	30	24,5	20 - 100	300	15 -20
VJ164-A05	34,5	20,5	12,5	14	10	15 - 100	300	20 - 25

Rectangle



Product model	外形	尺寸 L x l (mm)	内径 d (mm)	H (mm)	载荷范围 (daN)	动态力 (daN)	固有频率 (Hz)
VI786-A06 *	B	53 x 49	8	25	30 to 200	800	12 to 18
VI830-B06	C	28 x 28	-	15	50 to 300	1 000	17 to 22
VI700-A06 *	C	50 x 47	-	25	75 to 400	1 200	12 to 18
VI700-B06 *	C	50 x 47	-	16	75 to 400	1 600	17 to 22
CH422-A06	C	45 x 36	-	16	400 to 1 500	5 000	20 to 25
V3CNVJ 034-A06	B	100 x 100	20	34	2 000 to 7 000	20 000	12 to 18
VJ149-A06	B	28 x 28	10,5	10	25 to 150	450	20 to 25
V3CNVJ006-A06	B	157 x 157	30	25	500 to 5 000	15 000	13 to 18

219



VIBCABLE

natural frequency(1)
5 - 25 Hz

Describe

This series of bases are made of stainless steel wire cables wrapped around lightweight aluminum grids.
The 8010-8060 version is assembled using stainless steel fixtures, while the 8080-8140 version is assembled using electroplated steel screws.

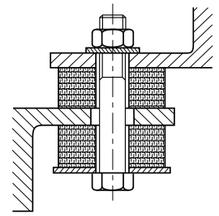
Each aluminum grid has two to four positioning holes, which can be smooth holes, countersunk screw holes, or threaded holes.

Application

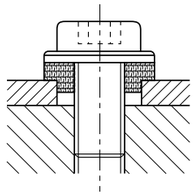
Natural frequency 5-25Hz, attenuation up to 40%, high displacement in all directions. This type of damper can alleviate the protection of equipment in the acceleration box caused by impact or falling, as well as the protection of fragile items on luggage racks and mobile devices.

(1) Natural frequency under maximum/minimum load, see operating characteristics section

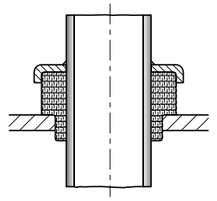
Installation example diagram



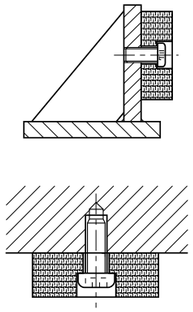
Space needs to be left around the fixing bolts
of gearboxes, motors, fans, and pumps (axial loads)



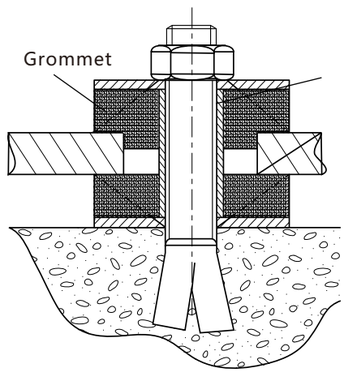
Absorb expansion, isolate screws under
dynamic loads



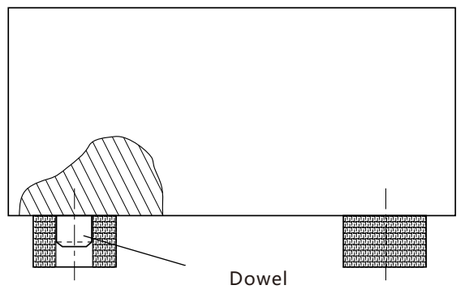
Pipeline vibration isolation



Motor and fan
vibration isolation



Metal shock absorber with
buffering damping



The washer fixed with a pin serves as
the support for the machine base

Size

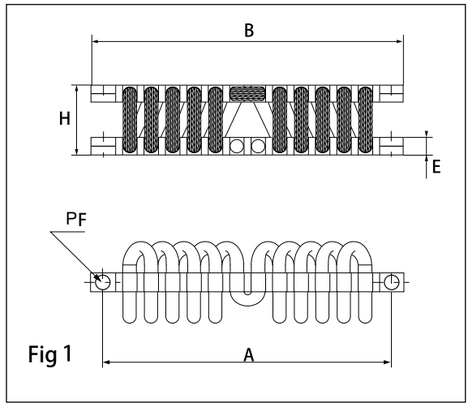


Fig 1

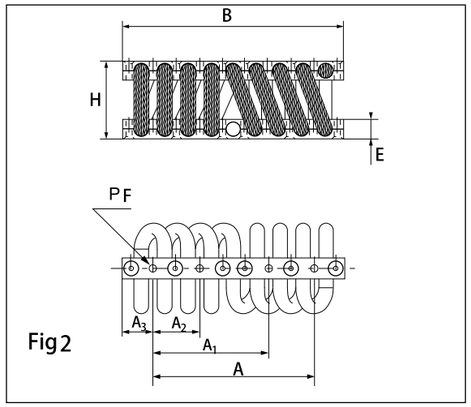
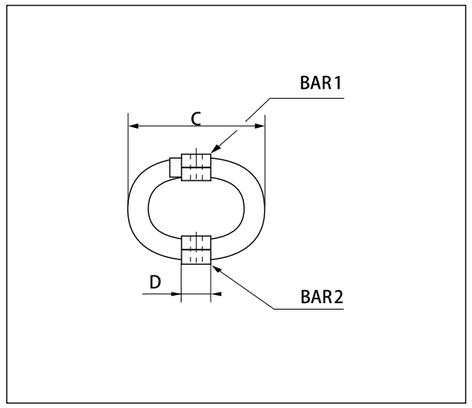


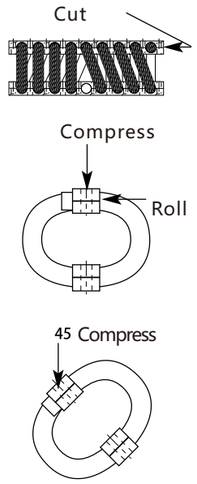
Fig 2



Product Model	Example diagram	A (mm)	B (mm)	C (mm) Depends on the version		D (mm)	E (mm)	F (mm) (2 fixed holes)		H (mm) Depends on the version					
				min.	max.			Tapping hole	threaded hole	01	02	03	04	05	06
V3CA8010-01 - -06	1	68	82	25	38	10	5	4,8	M4	18	26	20	28	30	33
V3CA8020-01 - -06	1	100	112	29	43	12,5	6	5,8	M5	21	31	35	25	28	38
V3CA8030-01 - -06	1	114	127	37	49	14	8	6,5	M6	28	30	33	36	38	41
V3CA8040-01 - -03	1	114	127	37	44	14	8	6,5	M6	28	33	38	-	-	-
V3CA8060-01 - -06	1	114	127	37	95	14	10	6,5	M6	38	43	87	43	31	34
V3CA8080-01 - -06	2	131	146	57	102	16	13	6,5	M6	48	54	60	64	80	90

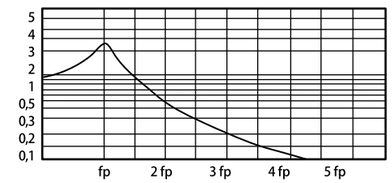
Product Model	Shape	A (mm)	A1 (mm)	A2 (mm)	A3 (mm)	B (mm)	C (mm)		D (mm)	E (mm)	F (mm) (4 fixed holes)		H (mm) Depends on the version					
							min.	max.			Tapping hole	threaded hole	01	02	03	04	05	06
V3CA8090-01 to -06	2	156	111	44,5	30	216	80	135	25	16	9	M8	70	74	89	110	68	77
V3CA8100-01 to -06	2	156	111	44,5	30	216	92	150	25	20	9	M8	75	89	95	110	83	108
V3CA8110-01 to -06	2	191	136,5	54,5	38,1	267	102	170	25	25	11	M10	90	95	100	100	110	150
V3CA8120-01 to -04	2	266,5	190,5	76	50,5	370	145	195	40	40	13	M12	135	150	160	160	-	-
V3CA8140-01 to -02	2	378	270	108	70,8	520	224	248	50	50	20	M18	180	218	-	-	-	-

Operating Characteristics



产品型号 Product model	额定荷载范围 (daN) Rated load range																	
	压缩 Compress						45° 压缩 Compress						滚动/剪切 Rolling/cutting					
版本	01	02	03	04	05	06	01	02	03	04	05	06	01	02	03	04	05	06
V3CA-8010	7	3	5	5	4	4	6	3	4	4	3	3	4	2	3	2	2	2
V3CA-8020	11	20	19	15	74	26	8	14	14	11	13	19	6	10	10	7	9	13
V3CA-8030	17	18	17	13	11	10	13	13	13	10	8	8	9	9	9	7	6	5
V3CA-8040	86	62	40				66	48	31				42	31	20			
V3CA-8060	63	58	19	53	82	100	46	44	15	40	62	75	32	29	10	27	41	50
V3CA-8080	88	62	51	47	25	26	66	47	39	36	19	19	44	31	26	24	13	13
V3CA-8090	194	162	120	82	188	134	147	122	91	62	142	101	97	81	60	41	94	67
V3CA-8100	439	414	481	215	442	290	330	312	363	162	332	218	220	207	240	108	221	145
V3CA-8110	848	682	712	529	486	315	639	532	556	406	366	246	424	342	357	265	243	157
V3CA-8120	1 658	1 396	878	651			1 272	1 055	664	492			331	698	441	320		
V3CA-8140	2 229	2 031					1 687	1 527										

- Operating temperature:
  - 180℃ -+300 ° C
- Resistance:
  Conductive film<210 °
- Environment
  This material is not affected by harsh environmental conditions.
- Vibration transmission coefficient curve.



There may be smooth, threaded, or countersunk screw holes on the aluminum grid, and several types of combinations are also possible:

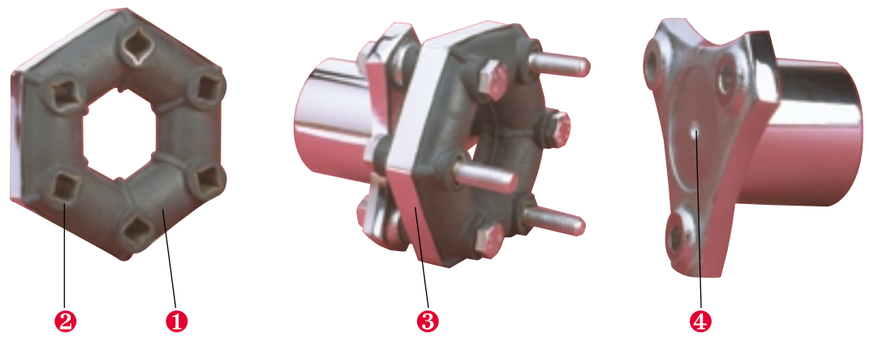
		Grid 1		
		Smooth hole: L	Threaded hole: N	Countersunk screw hole: F
Grid 2	Smooth hole: L	LL	NL	FL
	Threaded hole: N	LN	NN	FN
	Countersunk screw hole: F	LF	NF	FF

- Standardized Writing Case: V3CA8010-01LL



JUBOFLEX ®

***	Torsional Elasticity	**	Radial elasticity	***	Axial elasticity	***	Taper elasticity



Describe

Elastic influencing factors:

❶ Pre pressed natural rubber;
❷ Metal shrapnel that needs to be combined;
❸ Pre compression ring (will be removed after installation).

Flange:

❹ Cast steel (632320 is cast iron).

Function:

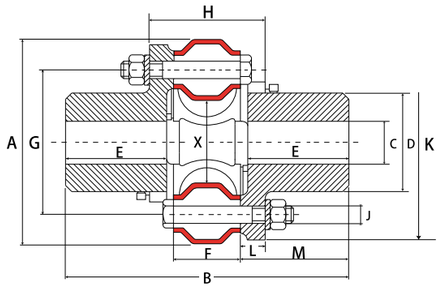
261

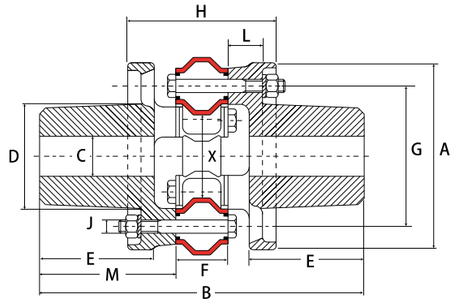
JUBOFLEX couplings have the following characteristics:
- Radial disassembly does not require moving any of the devices in a pair.
- The elastic part is pre compressed during installation, which effectively limits the traction force of the rubber during operation.

Advantages:
- Efficiently absorb vibrations generated by irregular torque or peak torque periods.
- Pre compression effectively reduces vibration and ensures safe use.
- Allowable large deviation: meets the requirement of precise alignment of the machine.

Suggestion:
- During use, preloading is achieved by fixing bolts. JUBOFLEX couplings do not require retaining compression rings during operation.

Function:





JUBOFLEX 除了**632320** **JUBOFLEX** ：产品型号 **632320**

额定扭矩 (N.m)	最大扭矩 (N.m)	最大转速 (rpm)	孔径 C (mm)		A (mm)	B (mm)	D (mm)	E (mm)	产品型号	F (mm)	G (mm)	H (mm)	J (mm)	K (mm)	L (mm)	M (mm)	X* (mm)	重量 (kg)
			min	max														
40	120	6000		30	91	128	42	47	632027	28	65	50	8	87	11	50	23	2
90	270	5000		40	117	172	56	66	632023	32	85	60	10	113	14	70	35	3
160	480	4500		48	142	196	68	70	632017	46	100	80	12	135	17	75	40	5
250	750	3500		60	181	247	90	93	632029	51	132	93	14	172	21	98	63	12
350	1050	3000		70	202	284	105	109	632031	54	150	96	18	196	21	115	68	18
500	1500	2800		75	232	322	115	124	632043	62	170	108	20	225	23	130	75	25
700	2100	2400		80	263	346	122	133	632025	68	190	116	20	246	24	139	82	32
1200	3600	2400	60	100	280	486	156	172	632320	78	210	222	20	-	52	204	110	57

1 N.m≈ 0.1 mkg

The maximum torque is considered a rare starting torque rather than periodic.
For higher rated torque, please refer to 《JUBOFLEX'S》.

Function:

The elastic part is preloaded through a preloading ring and needs to be removed after installation。

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No protector product model	Elastic product model	Quantity	Flange model	Quantity
632017	632505	1	321334	2
632023	632503	1	321324	2
632025	632511	1	321364	2
632027	632502	1	321314	2
632029	632507	1	321344	2
632031	632508	1	321354	2
632043	632500	1	321374	2
632320	632520*	1	321390	2

This elastic element has 8 mounting holes.

I.2 - Sealing ring type



Sealing method:

- rotary seal
- packing seal
- O-type seal
- lip seal
- plane seal

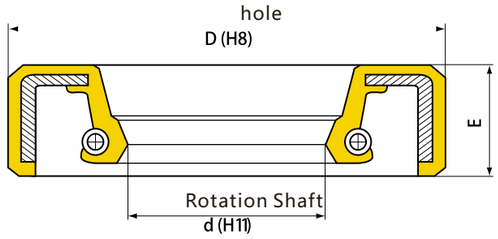
- **Rotary seal:** It is a frictionless seal and cannot be fully sealed. It cannot be completely immersed in liquid and cannot be sealed.
- **Packing seal:** It is filled and sealed with Yiwei materials (packaging or asbestos) to prevent leakage. The radial force generated by tightening the flange with nuts or bolts is in close contact with the shaft. For many years, this has been the most commonly used sealing method. It generates high friction torque and high power. Although lip seals and surface seals have been replaced in many situations, there are still many applications in other high-pressure fluid fields.
- **O-type seal:** are various staggered elastic sealing rings, mostly circular, but also X-shaped or cross shaped. Usually used for static sealing, it can also be used asLow speed rotating shaft seals generate high friction torque.双语对照笔记
- **Lip seals** are used for rotating shafts. Lip seals appeared over 50 years ago. The lips of the leather cover (possibly chrome plated) are tightly connected by springs and rotating shafts. In order to keep the spring and leather sleeve in a fixed position, the components are wrapped in a set of metal rings (usually at least 3) and pressed against each other. The shell is usually ground to a certain size and installed in a fixed hub. This sealing method has a great effect, but its lifespan is limited by wear-resistant leather, especially at high temperatures. Nowadays, it has been replaced by synthetic elastomers and appeared in the market 40 years ago, gradually replacing the role of leather. The first elastic body to appear is called N B. R. (Nitrile rubber) is characterized by its resistance to organic solvents, especially liquid fuels and lubricants, and high temperature resistance. The first produced seal has the same structure as the leather seal, with three curled metal rings. Later, it was gradually simplified into the current universal type, which better ensured the adhesion between nitrile rubber and metal.

The latest invention of elastomers provides customers with an increasingly wide range of sealing options, solving numerous sealing problems for them.



Shaft sealing ring

Nitrile rubber and fluororubber sealing rings

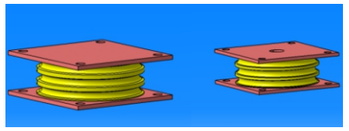


- The product part numbers in bold font are for stock products.
- Hutchinson can meet all customization requirements or special elastomer requirements.The product with part number "01" contains a stainless steel spring.

d (mm)	D (mm)	E (mm)	型号 Model	橡胶种类 Rubber type	产品料号 Product part number
5	15	6	IE	NBR	**722034**
	15	6	IE	FKM	**722034/81**
	15	6	IEL	NBR	**792593**
	16	5	IO	NBR	723218
5,5	16	7	IE	FKM	772145
6	12	3,5	IE	NBR	772315
	15	7	IE	NBR	772309
	16	7	IE	NBR	**722987**
	22	7	IE	NBR	**722196**
	22	7	IOS	NBR	726167
6,3	19	5	IEW	NBR	772402
	19	6,3	IE	NBR	**722416**
	19	6,3	IE	FKM	772122
7	16	7	IE	NBR	**722290**
	19	6	IE	NBR	**722399**
	22	7	IE	NBR	**722721**
8	11,5	2,5	OOS	NBR	727093
	14	3	IO	NBR	723227
	14	3	IO	NBR	723250
	14	3	IO	NBR	723279
	15	5	IE	NBR	772233
	16	6,5	IE	NBR	**722455**
	16	6,5	IO	NBR	723216
	18	5	IE	NBR	**722477**
	18	5	IE	FKM	722477
	18	5	IEL	NBR	**792594**
	22	6	IEWL	NBR	725696
	22	7	IE	NBR	**772023**
	22	7	IEL	NBR	**792595**
	22	8	IE	NBR	**722211**
	22	8	IE	FKM	722907
8,4	16	6,5	IE	NBR	722061
9	22	7	IE	NBR	**722981**
	24	7	IE	NBR	772026
	25	8	IE	NBR	**722273**
	26	7	IE	NBR	**772028**
	28	8	IE	NBR	772330

d (mm)	D (mm)	E (mm)	型号 Model	橡胶种类 Rubber type	产品料号 Product part number
9,2	19	5,3	IE	NBR	**722003**
9,8	18	5	IOS	NBR	726787
	16	5	IE	FKM	722393
10	18	5	IE	NBR	**722495**
	19	7	IE	NBR	**722164**
	22	7	IE	NBR	**722940**
	22	7x8	IEL	NBR	**725331**
	22	8	IE	NBR	**722294**
	25	8	IE	NBR	**722267**
	26	7	IE	NBR	**722983**
	28,5	8	IE	NBR	722783
	35	8	IE	NBR	722784
10,3	22	8	IE	NBR	772311
10,8	22,2	6,3	IE	NBR	722417
11	17	4	IE	NBR	772379
	17	4	IEWL	NBR	725694
	22	7	IE	NBR	**772010**
	24	8	IEL	NBR	725183
	26	7	IE	NBR	**772027**
	26,9	8	IE	NBR	722007
	28,5	8	IE	NBR	722785
12	18	4	IOS	NBR	726024
	18,2	4	IOS	NBR	726072
	19	5	IE	NBR	**792700**
	20	5x6	EELS	NBR	725519
	22	4	IE	NBR	722372
	22	4	IE	NBR	772314
	22	4	IE	NBR	**792701**
	22	4	IEL	NBR	**792596**
	22	4,5	IE	NBR	**722303**
	22	7	IE	NBR	722660
	22	7	IEL	NBR	**792507**
	22	8	IE	NBR	722295
	24	6,5	IE	NBR	**722395**
	24	6,5	IEL	NBR	**792597**
	24	7	IE	NBR	**772204**
	26	8	IE	NBR	**722109**
	26	8	IEL	NBR	**725352**
	26	8x13	IES	NBR	726223

Abbreviation: NBR=Nitrile Rubber; FKM=Fluororubber



“三明治”减振器

Sandwich shock absorber

natural frequency 8-10Hz

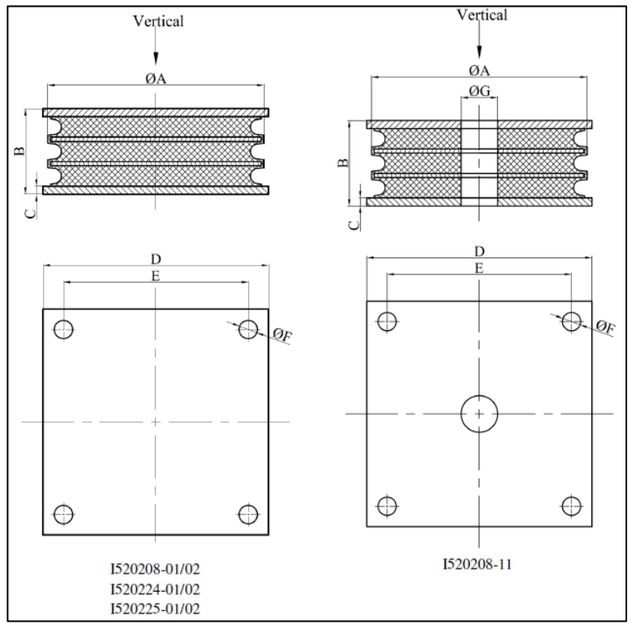
Application ：

Suitable for vibration isolation of heavy equipment, such as mining machinery, construction equipment, engineering machinery, etc., it can be installed on a base or side hung.

Advantages:

- Compact structure and low height;
- Large supporting area
- The rubber material is made of natural rubber;
- Multiple products can be stacked for use;
- Small lateral stiffness, large vertical stiffness:

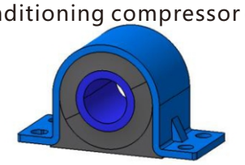
Dimensions



Reference	Hardness	ØA	B	C	D	E	ØF	ØG
		mm	mm	mm	mm	mm	mm	mm
I520208-01/02	40/60	152	63	6	166	136	13.5	/
I520224-01/02	40/60	121	52	5	148	118	13.5	/
I520225-01/02	40/60	289	120	10	310	270	22	/
I520208-11	60	152	63	6	166	136	13.5	27

空调压缩机减振器

Air conditioning compressor damper



Application ：

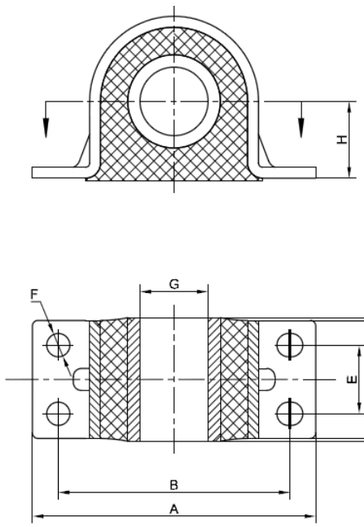
Air conditioning compressor

Advantages:

- Good vibration and noise reduction effect
- Can effectively counteract the lateral tension of the belt, prevent compressor misalignment and belt looseness
- Salt spray resistance test for 500 hours;
- Easy to install.

Dimensions

Dimensions



型号	A	B	C	D	E	F	G	H	重量
	mm	mm	mm	mm	mm	mm	mm	mm	Kg
I520287	104	85	45	43	25	8.5	25	28	0.5

Spring damping shock absorber



natural frequency 3–4Hz

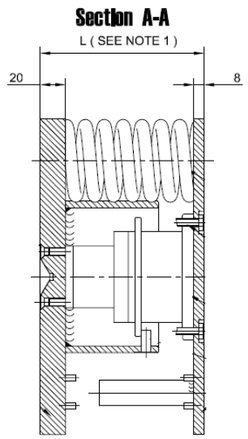
Application ：

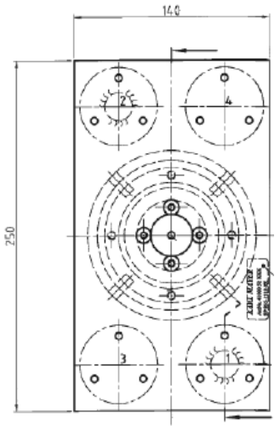
Suitable for vibration isolation of large or precision instruments, such as medical equipment, laboratory equipment, optical equipment, coordinate measuring instruments, elevator cars or motors, etc.

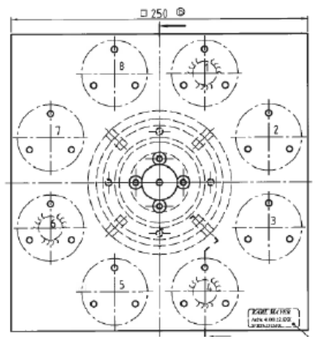
Advantages:

- Low natural frequency, good isolation effect;
- Wide load-bearing range, can be achieved by adjusting the number of springs to achieve different load-bearing
- capacities:Long service life.

Dimensions







NOTE:

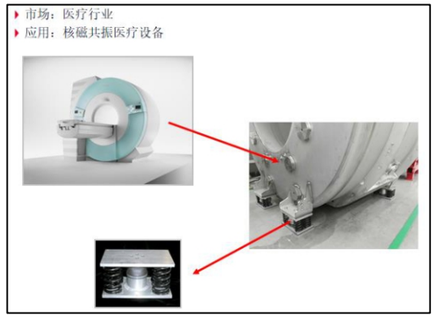
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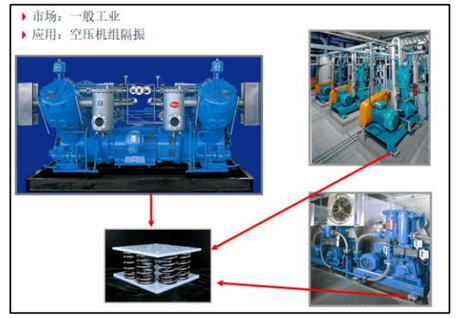
Condition	At Hutchinson		At Customer	
	No load	Precompressed	Under min load	Under max load
L	137	127	122	107

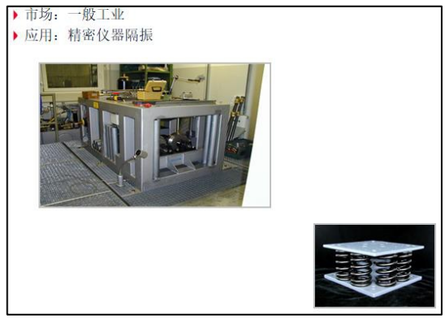
Characteristics

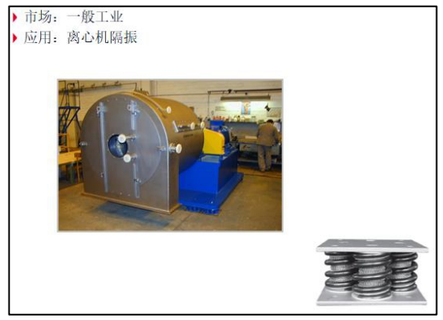
Reference	Load Range (kN)	Natural Frequency (Hz)	Spring Position	Height @no load (mm)	Height @min. load (mm)	Height @max. load (mm)
2 簧	4~8	3~4	1+2	127±5	122±5	107±5
3 簧	6~12	3~4	1+2+3	127±5	122±5	107±5
4 簧	8~16	3~4	1+2+3+4	127±5	122±5	107±5
2 簧	4~8	3~4	1+5	127±5	122±5	107±5
3 簧	6~12	3~4	2+5+7	127±5	122±5	107±5
4 簧	8~16	3~4	1+4+5+8	127±5	122±5	107±5
5 簧	10~20	3~4	1+2+4+5+8	127±5	122±5	107±5
6 簧	12~24	3~4	1+3+4+5+7+8	127±5	122±5	107±5
7 簧	14~28	3~4	Without 6	127±5	122±5	107±5
8 簧	16~32	3~4	All springs	127±5	122±5	107±5

Application case



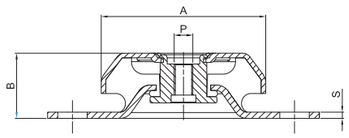


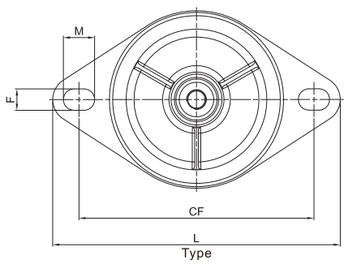


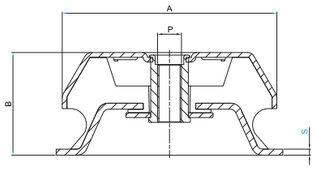


Clock shaped shock absorber FRS









Mounts which allow a high level of insulation especially used on generators, engines and systems with an operating frequency at around 25 Hz (1500 rpm). Axial stresses are perfectly absorbed and side deflections limited to guarantee a good stability. Hard bell mounts are designed with a fail-safe function making it an ideal solution for applications where safety is paramount.

APPLICATIONS

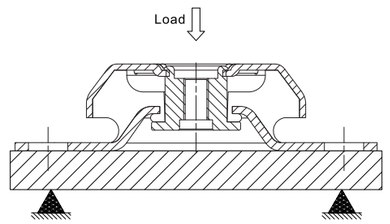
Gensets
Engines
Tooling machinery
Special equipments
Pumps
HVAC

STANDARD PRODUCTION

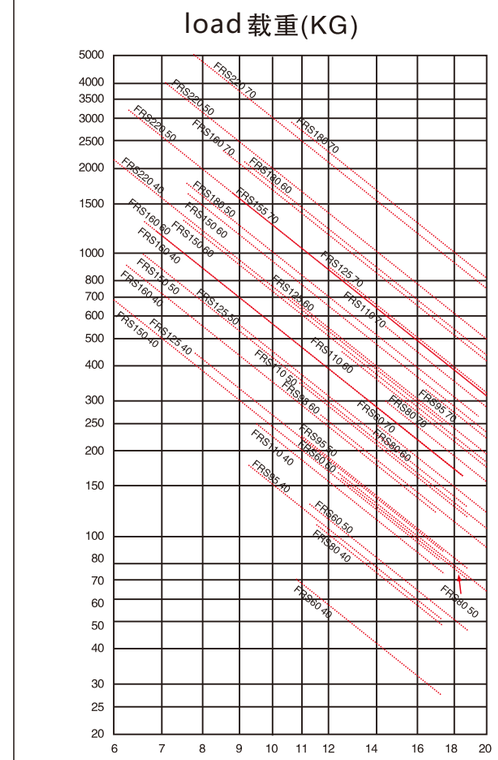
Material:
Bell and ange
ail-safe device: Y15Pb(37)
Natural rubber NR/ synthetic rubber
Surface treatment: zinc
In accordance with the actual requirements of customers
Stiffness tolerance +/-15%

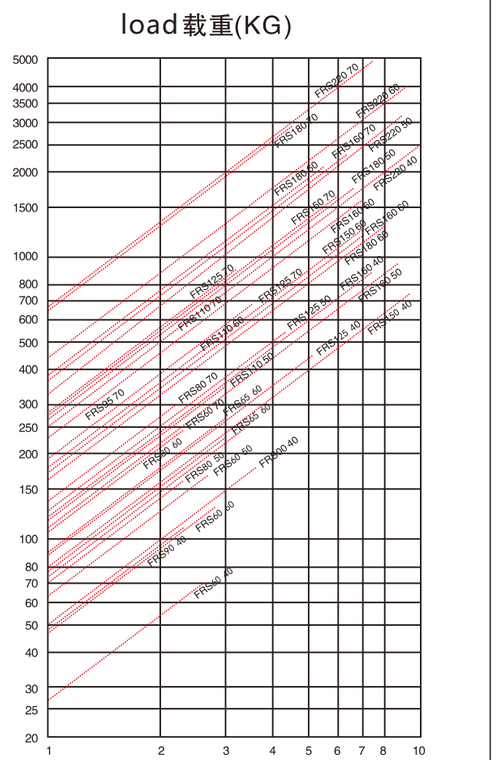
ADDITIONAL PARTS

Stainless steel version
Height adjuster



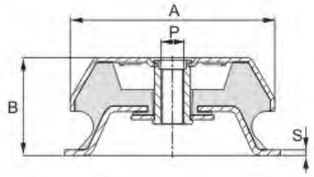
Item	Hardness (IRHD)	A	B	P	FxM	CF	L	S	Average Stiffness (daN/mm)	Max. Load (daN)	Max Dedflec. (mm)	Type
FRS6035W	40	63	35	M8 M10 M12	9X14	89	110	2,5	7,0	30,0	4,3	1
FRS6035M	60								15,8	60,0	3,8	
FRS6235W	40	63	35	M8 M10 M12	11X15	100	120	2,5	7,0	30,0	4,3	1
FRS6235M	60								15,8	60,0	3,8	
FRS6335W	40	63	35	M8 M10 M12	9X14	100	120	2,5	50,0	215	4,3	1
FRS6335M	60								90,0	342	3,8	
FRS8335W	40	83	35	M10 M12	11,5X15	110	135	3	17,8	80,0	4,5	1
FRS8335M	60								44,5	180,0	4,0	
FRS10642W	40	106	42	M12 M16	13X19	143	175	4	33,5	200,0	5,9	1
FRS10642M	60								60,7	400,0	5,9	
FRS15554W	40	154	54	M16 M20	14X18	182	218	4	37,5	450,0	12,0	1
FRS15554M	60								78,7	800,0	10,2	

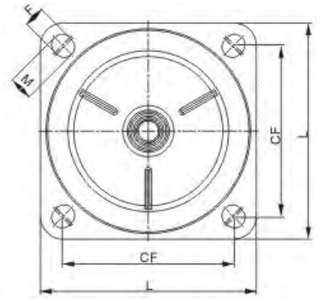




Clock shaped shock absorber FRSQ



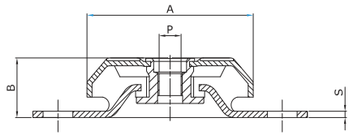


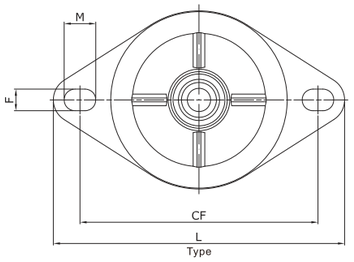


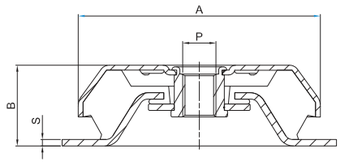
Item	Hardness (IRHD)	A	B	P	FxM	CF	L	S	Average Stiffness (daN/mm)	Max. Load (daN)	Max Dedflec. (mm)	Type
FRSQ15054W	40	150	54	M16 M20	14,5X17	132	170	4	37,5	450,0	12,0	2
FRSQ15054M	60								78,7	800,0	10,2	
FRSQ18086W	40	180	86	M16 M20	14,5X18	146	190	5	58,2	900,0	15,2	2
FRSQ18086M	60								127,0	1700,0	13,4	
FRSQ220105W	40	220	105	M24	17,5X20	180	220	5	95,0	1700,0	17,9	2
FRSQ220105M	60								195,0	3400,0	17,4	

Clock shaped shock absorber FRH







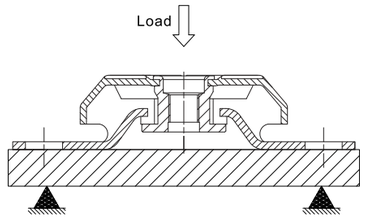


Mounts which allow a high level of insulation especially used on generators, engines and systems with an operating frequency at around 25 Hz (1500 rpm). Axial stresses are perfectly absorbed and side de ections limited to guarantee a good stability. Hard bell mounts are designed with a fail–safe function making it an ideal solution for applications where safety is paramount.

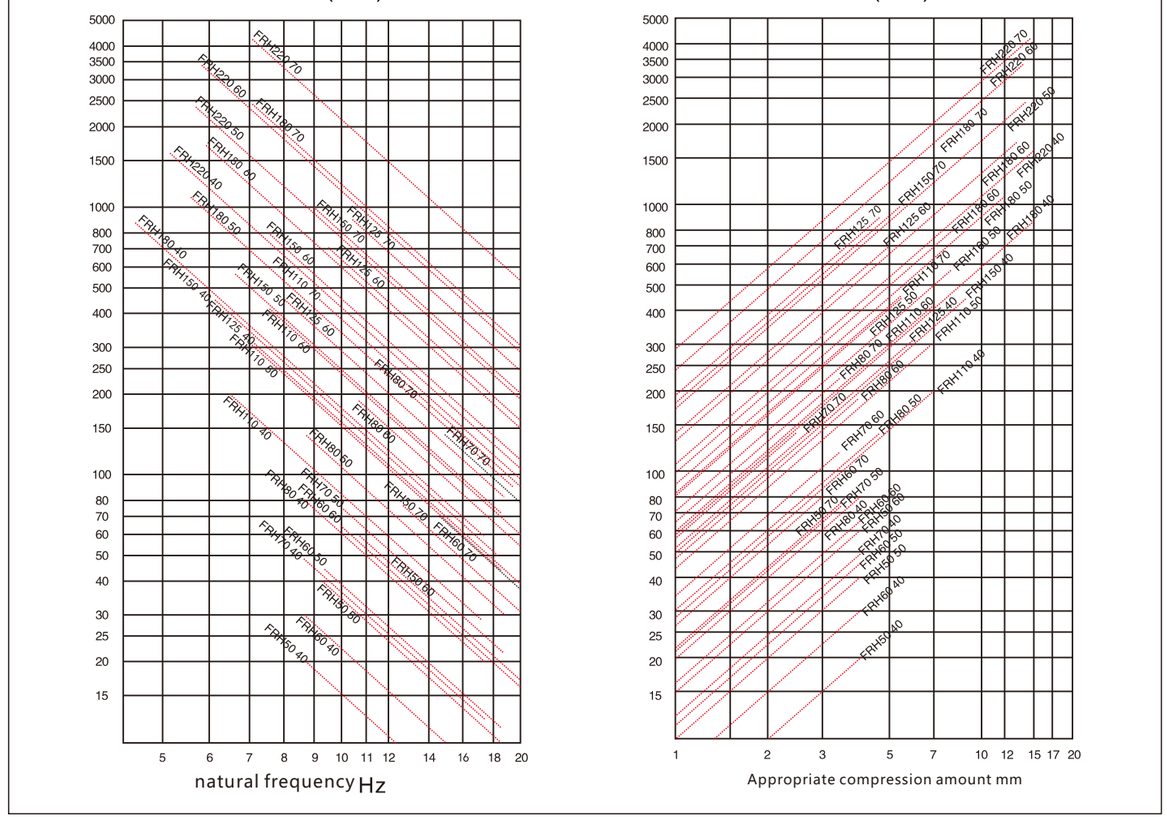
APPLICATIONS
Gensets
Engines
Tooling machinery
Special equipments
Pumps
HVAC

STANDARD PRODUCTION
Material:
Bell and ange: DD13&DC04 Q/BQB403–2003
ail–safe device: Y15Pb(37)
Natural rubber NR/ synthetic rubber
Surface treatment:zinc
In accordance with the actual requirements of customers
Stiffness tolerance +/–15%

ADDITIONAL PARTS
Stainless steel version
Height adjuster

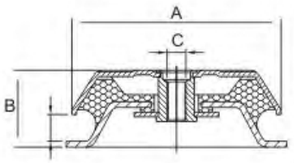


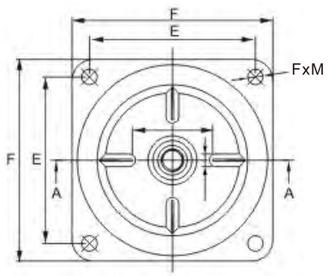
Item	Hardness (IRHD)	A	B	P		FxM	CF	L	S	Average Stiffness (daN/mm)	Max. Load (daN)	Max Dedflec. (mm)	Type
FRH6230W	40	62	30	M8	M10	9X12	89	110	2,5	70,0	140,0	2,0	1
FRH6230M	60									120,0	240,0	2,0	
FRH7830W	40	78	30	M10	M12	9X12	110	135	2,5	47,0	108,0	2,3	1
FRH7830M	60									116,0	267,0	2,3	
FRH8330W	40	83	30	M10	M12	9X12	110	135	2,5	65,0	130,0	2,0	1
FRH8330M	60									98,0	196,0	2,0	
FRH9235W	40	92	35	M10	M12	10X15	123,5	150	3	50,0	175,0	3,5	1
FRH9235M	60									90,0	315,0	3,5	
FRH10638W	40	106	38	M14	M16	13X19	143	175	4	70,0	252,0	3,6	1
FRH10638M	60									150,0	450,0	3,0	
FRH12543W	40	125	43	M16	M18	14,5X20	156	190	4	88,0	352,0	4,0	1
FRH12543M	60									185,0	740,0	4,0	
FRH14448W	40	144	48	M16	M18	14X18	182	215	5	100,0	700,0	7,5	1
FRH14448M	60									200,0	1340,0	6,7	
FRH15050W	40	150	50	M16	M20	14X18	182	218	5	120,0	840,0	6,0	1
FRH15050M	60									220,0	1540,0	6,0	



Clock shaped shock absorber FRHQ



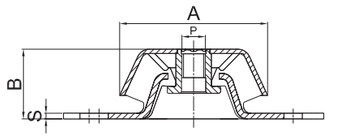


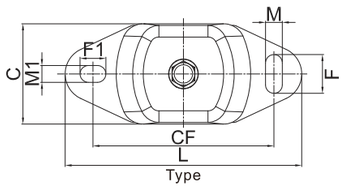


Item	Hardness (IRHD)	A	B	C	FxM	E	F	S	Average Stiffness (daN/mm)	Max. Load (daN)	Max Dedflec. (mm)	Type
FRHQ1505020W	40	150	50	M20	14,5X17	132	170	5	120,0	840,0	6,0	2
FRHQ1505020M	60								220,0	1540,0	6,0	
FRHQ1806620W	40	180	66	M20	14,5X18	146	190	5	160,0	1120,0	7,0	2
FRHQ1806620M	60								320,0	2240,0	7,0	

Bell shaped shock absorber MAR







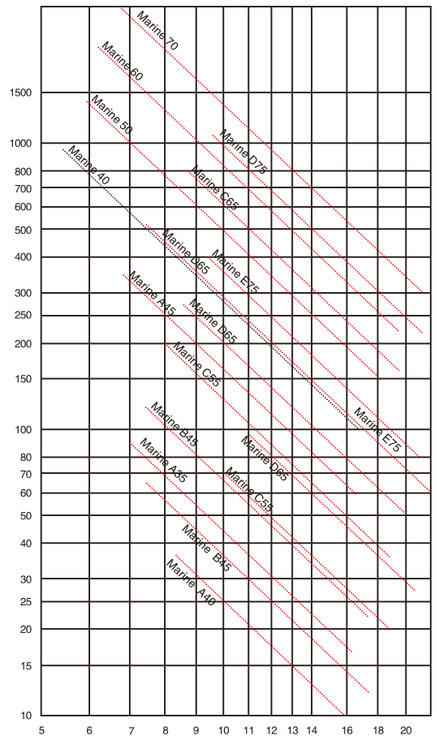
This mount offers a low profile, easy to install design with an integral fail–safe device to provide shock and failure protection for mobile, marine or seismic stationary applications. When the rubber works in shear and compression it provides large static deflections low natural (to 8 hz) and high isolation.Marine 、FRH、FRS designed with a fail–safe function making it an ideal solution for applications where safety is paramount.

APPLICATIONS

Gensets
Diesel engines
Marine power engines
Pumps
HVAC

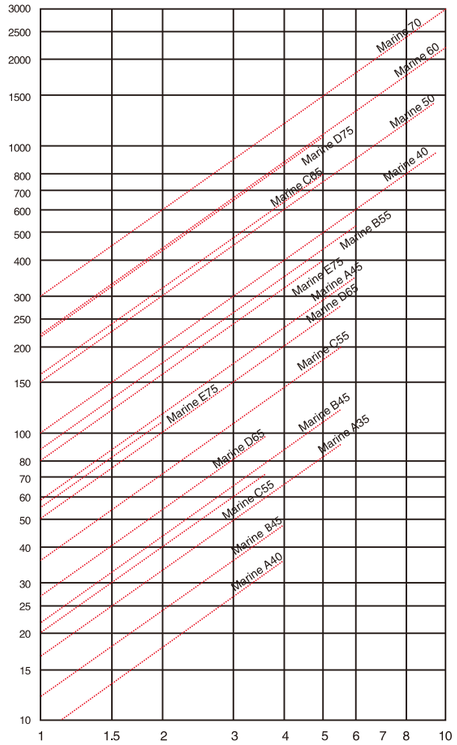
Item	Hardness (IRHD)	A	B	C	P	Fxm (F1xM1)	CF	L	S	Average Stiffness (daN/mm)	Max. Load (daN)	Max Dedflec. (mm)	Average weight (kg)
MAR804012W	45	80	38	60	M12	14X11	100	120	3	9,0	36,0	4,0	0,35
MAR804012K	50									13,0	52,0		
MAR804012M	60									16,0	64,0		
MAR804012H	70									24,0	96,0		
MAR1045016XW	35	104	49	75	M16	30X13 (20X13)	140	183	4	16,0	80,0	5,0	0,85
MAR1045016W	45									24,0	120,0		
MAR1045016M	60									38,0	190,0		
MAR1045016H	70									60,0	300,0		
MAR1045016XH	80									95,0	475,0		
MAR1307020W	45	132	71	112	M20	34X18 (26X18)	182	230	5	55,0	330,0	6,0	2,35
MAR1307020M	60									90,0	540,0		
MAR1307020H	70									135,0	810,0		
MAR1307020XH	80									220,0	880,0	4,0	
MAR33019024W	40	221	110	190	M24	22X22	270	330	6	86,0	950,0	11,0	9,6
MAR33019024KM	50									127,0	1400,0		
MAR33019024M	60									200,0	2200,0		
MAR33019024H	70									273,0	3000,0		

load (KG)



natural frequency Hz

load (KG)



Appropriate compression amount mm

Cone shock absorber CN



These mounts have a particular rubber section made for shear and compression stresses which allows good axial deflections. Cone mounts are low cost isolators that have high load carrying capacity within a compact size that provides a stable solution for a wide number of applications. This design of mount is ideally suited for isolating cabs of trucks, bus engines, radiators etc··· The mounts are assembled with two safety washers to minimize overloadsThe CNA version is characterized by two different radial stiffnesses

APPLICATIONS

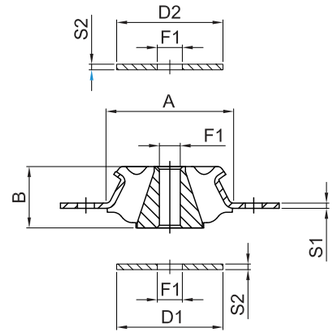
Gensets
Engines
Compressors
Special equipments
Pumps
HVAC

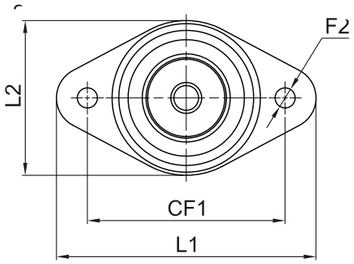
STANDARD PRODUCTION

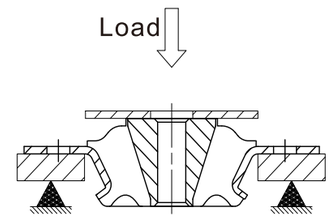
Material: DD13&DC04Q/BQB403–2003
Natural rubber NR/ synthetic rubber
Surface treatment: zinc
In accordance with the actual requirements of customers
Stiffness tolerance +/–15%

ADDITIONAL PARTS

Alternative elastomer hardness and compounds available

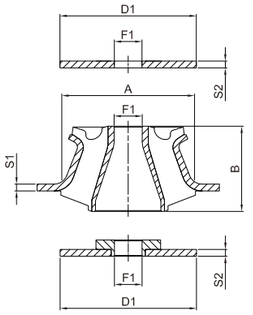


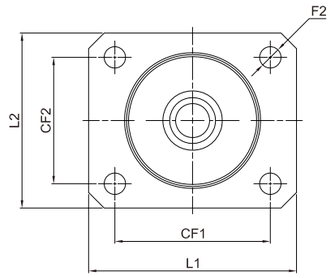




Item	Hardness (IRHD)	A	B	CF1	CF2	L1	L2	F1	S1	F2	D1	D2	F1	S2	Average Stiffness (daN/mm)	Max. Load (daN)	Max Dedflec. (mm)
4623CN08W	45	46	23,5	64	-	84	50	8	2	6,5	40	8	40	2	12,5	37,5	3
4623CN08M	60														22	66	
4623CN08H	70														36	108	
4830CN12/1W	45	48	30.2	73	-	89	54	12	2	8.7	49	34	12	2	9	36	4
4830CN12/1M	60														15	60	
4830CN12/1H	70														21	84	
6051CN12W	45	60	45	80	-	107	68	12,1	2,5	11	55	50	12,2	3,5	20	100	5
6051CN12M	60														34	170	
6051CN12H	70														50	250	

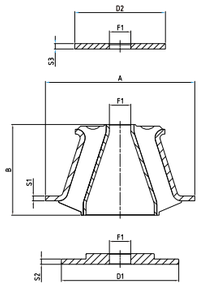


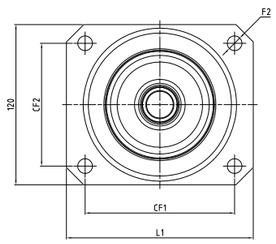




Item	Hardness (IRHD)	Cono									Washers				Average Stiffness (daN/mm)	Max. Load (daN)	Max Dedflec. (mm)
		A	B	CF1	CF2	L1	L2	F1	S1	F2	D1	D2	S2	F1			
7856CN16W	45	78	50	80	65	107	90	16,5	4	11	80	65	4	16	32	160	5
7856CN16M	60														60	350	
7856CN16H	70														98	488	
7856CN20W	45	78	50	80	65	107	90	20	4	11	80	65	4	20	32	160	5
7856CN20M	60														60	350	
7856CN20H	70														98	488	



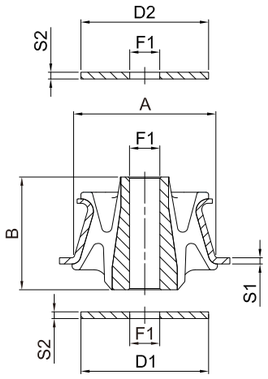


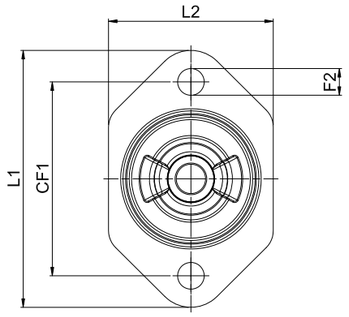


Item	Hardness (IRHD)	A	B	CF1	CF2	F1	F2	S1	L1	L2	D1	D2	S2	S3	Average Stiffness (daN/mm)	Max. Load (daN)	Max Dedflec. (mm)
9381CN16W	45	93	73	90	74	16	11	4	120	100	80	70	5	4	75	450	6
9381CN16M	60														140	840	
9381CN16H	70														235	1410	
10995CN20W	45	109	85	112	92	20	11	4,5	140	120	110	80	5	5	115	460	4
10995CN20M	60														250	1125	4,5
10995CN20H	70														370	1850	5

Cone shock absorber CNA



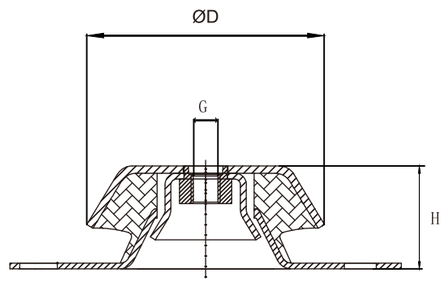


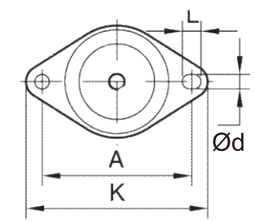


Item	Hardness (IRHD)	A	B	CF1	CF2	L1	L2	F1	S1	F2	D1	D2	F1	S2	Average Axial Stiffness (daN/mm)	Max. Load (daN)	Max Dedflec. (mm)	Average Radial Stiffness Y (daN/mm)	Average Radial Stiffness X (daN/mm)
6051CNA12W	45	60	45	80	-	107	70	12,1	2,5	11	55	50	12,2	3,5	15,5	77,5	5	53	31
6051CNA12M	60														28	140		85	56
6051CNA12H	70														40	200		102	80
7856CNA16W	45	78	50	80	65	107	90	16.5	4	11	80	65	16	4	24	120	5	61	31
7856CNA16M	60														42	210		100	51
7856CNA16H	70														56	270		160	84

Bell shaped shock absorber TN







Item	Hardness (IRHD)	ØD	A	K	H	Ød	L	G	Average Stiffness (daN/mm)	Max. Load (daN)
TN82H35	45	82	110	135	35.5	11	13	M10	117	75
	60								235	150
TN101H38	50	101	144	175	38	14	18	M16	57	250
	60								121. 5	450