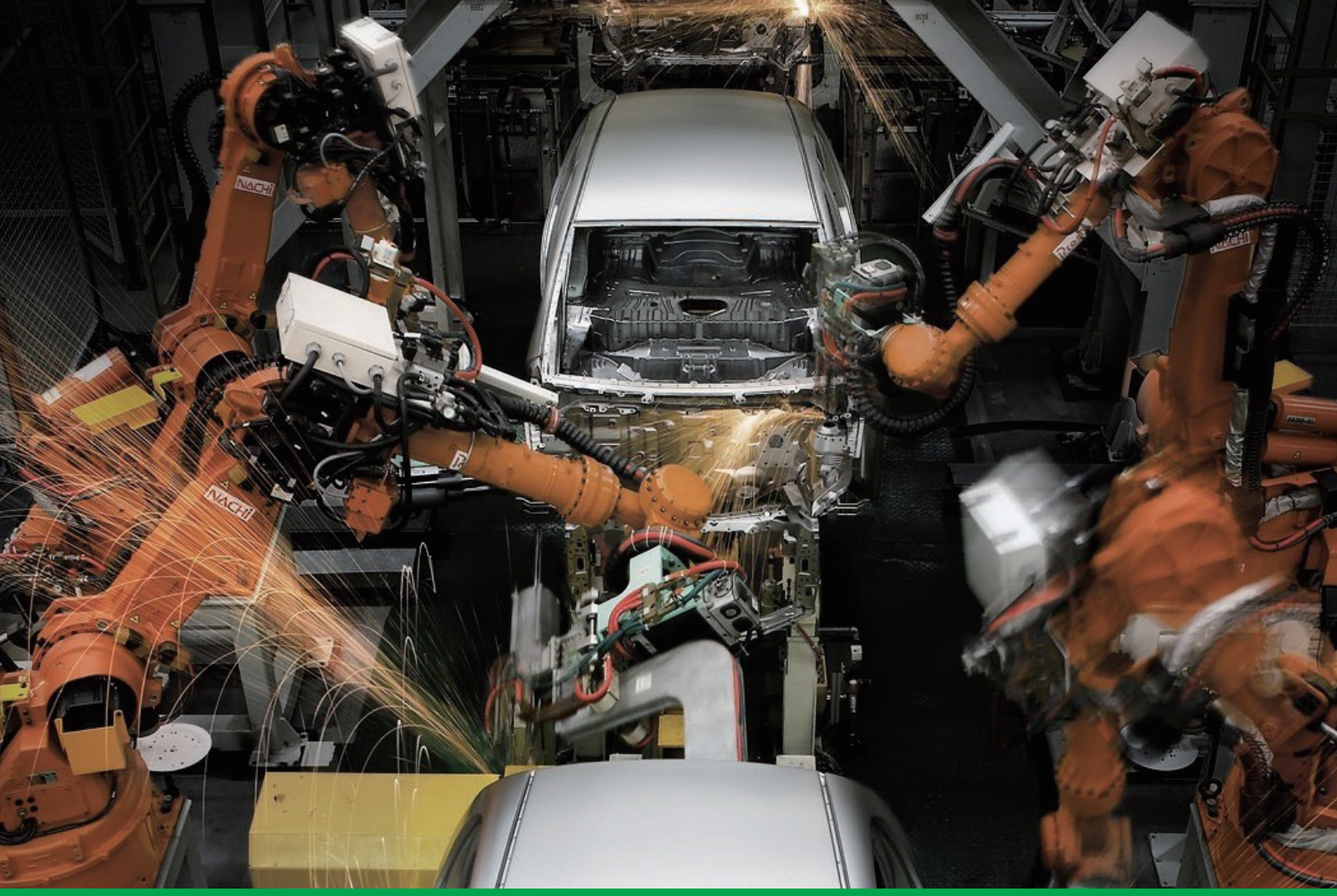
力科丹普

Energy Absorption
Vibration Control

Vibration Control

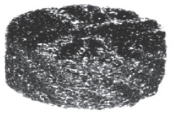


EKD

FOCUSES ON COST-EFFECTIVE ENERGY ABSORPTION AND VIBRATION ISOLATION SOLUTIONS.

Table of Contents

Shock Absorbers



EXCELLENT IN QUALITY AND VALUE FOR ENERGY ABSORPTION AND VIBRATION ISOLATION PRODUCTS

BRAND PROFILE

Jiangsu EKD Machinery Technical Co., Ltd. has been working in the military and civil products fields for years, focusing on the research, development and production of vibration control and noise reduction products. It has cooperated with well-known domestic vibration and noise research institutes to formulate a variety of product standards for naval vibration isolators. At present, there are more than 30 employees in the company and the core team has worked in the industry for more than 15 years with rich management experience. Adhering to the concept of quality first and technology lead, the company provides the optimal solutions for military and civilian customers.

Main qualifications and achievements:

1. High-tech enterprise with ISO9001, ROHS, CE certificate.
2. 5 invention patents and 1 product appearance patent.
3. More than 50 utility model patents and 3 software copyrights.
4. Obtained qualifications related to military production, quality management and confidentiality.

EKD's Brand Advantages:

- Excellent working life and performance.
- Prompt product delivery, enough safety inventories.
- Quick and good technical supports such as product sizing, product testing, and solutions.
- On-site service support from domestic professionals within 24 hours.

Features

- Standard wire rope vibration isolator is composed of stainless-steel wire rope passing through aluminum alloy or stainless-steel fixed mounting plate for effective impact and vibration.
- The wire rope vibration isolator is made of corrosion-resistant metal parts, so it is not sensitive to the surrounding environment and is not affected by the abrasion of temperature, chemical products, oil and ozone, etc. It is a high-performance vibration isolator to isolate impact and vibration.

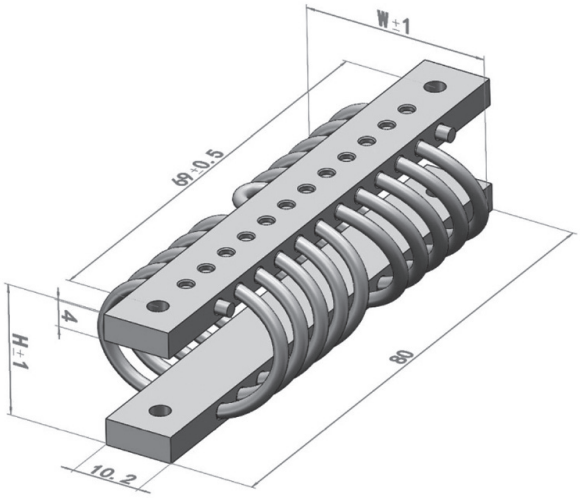
Performance

- Ensure that the system has good vibration isolation performance under the maximum safe impact, and adapt to various harsh environments specified in military standards at home and abroad;
- Softened nonlinear stiffness, the maximum dynamic deformation accounts for more than 70% of the effective space of the elastomer, and the dynamic stiffness decreases with the increase of deformation;
- Adapt to various environment, resistant to salt fog, mold, humidity, ozone, oil stain, sunshine, nuclear radiation, dust and corrosion of various organic solvents;
- Bear elastic deformation in any spatial direction with multi-directional vibration isolation and buffering;
- Long service life.

Application

- Isolation and buffering of electronic and mechanical equipment and instruments on the aircraft, vehicles and ships;
- Foundation elastic support of engine and various power machinery;
- Isolation and buffering of various precision electronic instruments, meters, calculators and communication equipment;
- Vibration isolation and earthquake resistance of key infrastructure facilities and buildings;
- Vibration isolation, earthquake resistance and buffering of construction machinery and general machinery;
- Vibration isolation and buffering of mechanical and electronic equipment and facilities under harsh environments such as high and low temperature and chemical pollution.

WBGX01



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGX01-01	18	27	B,D,E	M4 or Ø5	6	4	2.1	15	9	8.4	7	12	7
WBGX01-02	20	28	A,B,C D,E,S		4	3	1.9	12	7	7.2	10	16	9
WBGX01-03	25	30			3.3	2	1.2	7	4.2	3.7	12	18	14
WBGX01-04	28	33			2.6	1.8	1.1	6.5	3.2	3.5	18	21	16
WBGX01-05	30	36			2.3	1.5	0.9	3.7	2.3	2.4	20	22	21
WBGX01-06	33	38			1.6	1.1	0.7	3.4	2	1.8	23	25	22
WBGX01-07	35	39			1.4	1	0.6	1.8	1.4	1.7	25	26	23
WBGX01-08	50	52			0.8	0.6	0.3	1.4	0.9	1.2	30	27	24

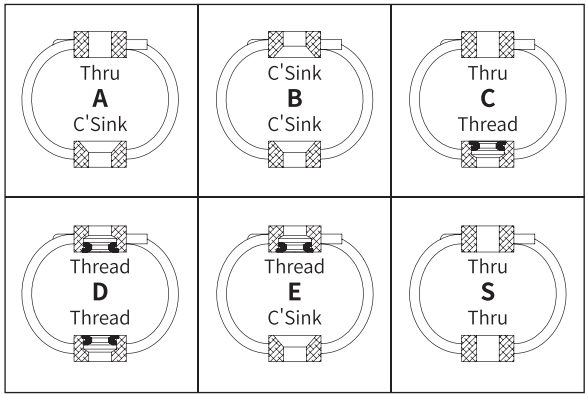
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGX01—01—10 D T P G R

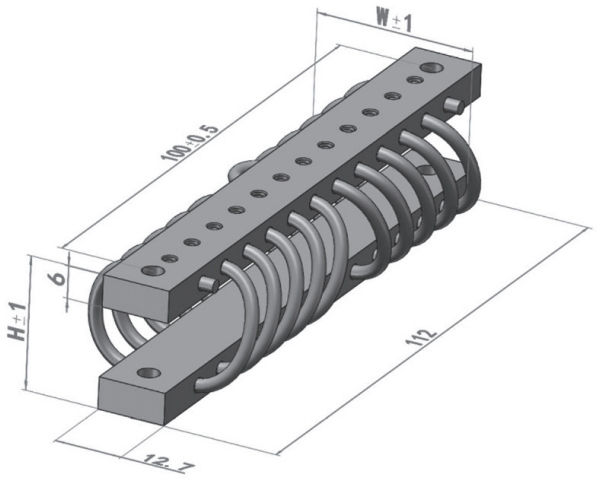
- R — Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- G — Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- P — Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- T — Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- D — Installation method
  See the right figure
- 10 — Number of turns 10 turns (can be reduced)
- 01 — Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGX02



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGX02-01	23	28	B,D,E	M5 or Ø6	20	13	11.5	57	28.5	53	7	18	9
WBGX02-02	25	30	A,B,C D,E,S		15	10.5	7.2	48	26	29	8	20	11
WBGX02-03	28	33			11	7.5	4.5	33	16	16	10	21	13
WBGX02-04	33	38			7	5	2.5	14	9.5	9	13	22	14
WBGX02-05	36	41			4.5	3.5	2	10.5	7	7	15	25	16
WBGX02-06	41	49			4	2.5	1.2	5.5	4.5	3.5	18	30	20

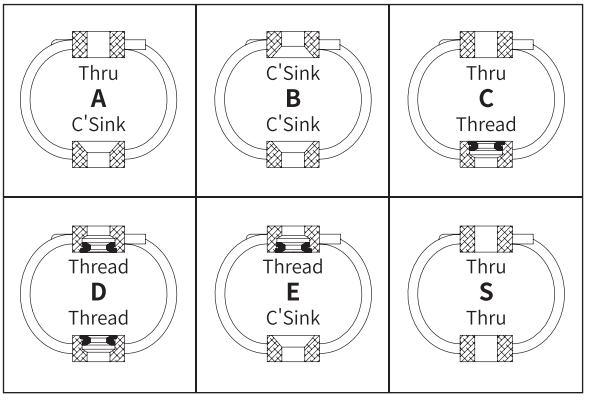
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGX02—01—10 D T P G R

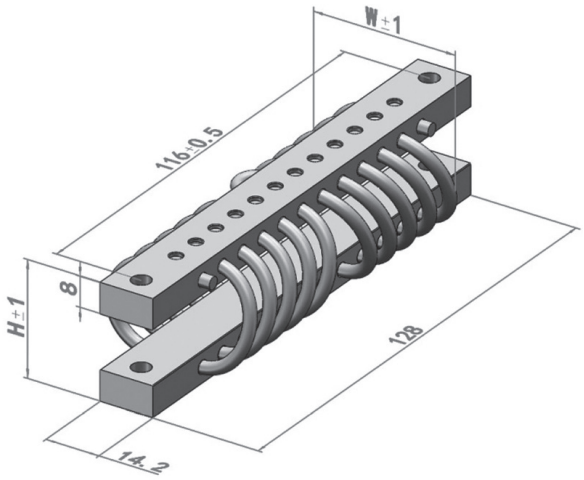
- Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- Installation method
  See the right figure
- Number of turns 10 turns (can be reduced)
- Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGX03



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGX03-01	28	36	B,D,E	M6 or Ø7	36	25	14	105	58	48	8	15	9
WBGX03-02	30	38	A,B,C D,E,S		23	16	8	77	45	31	10	20	14
WBGX03-03	33	41			17	12	6	52	28.5	19.5	13	23	16
WBGX03-04	36	43			15	9.6	5	42	25.6	14.5	17	25	18
WBGX03-05	38	46			11.5	9.4	4	37	20	11	17	27	20
WBGX03-06	41	48			10.5	7	3	28	14	10	18	34	21
WBGX03-07	50	54			7.5	4.5	2	18	11	7	25	40	23
WBGX03-08	60	68			4	2.5	1	10.5	5.5	2.5	30	45	25

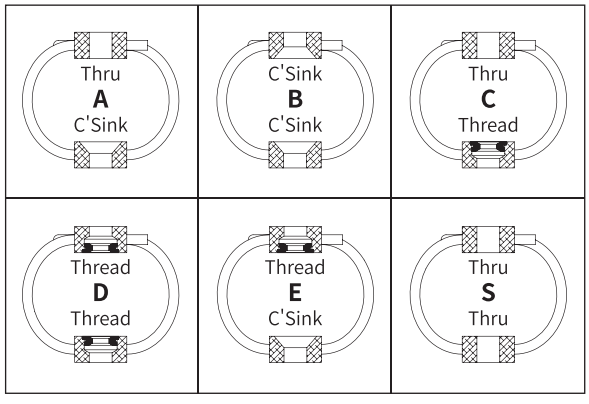
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGX03—01—10 D T P G R

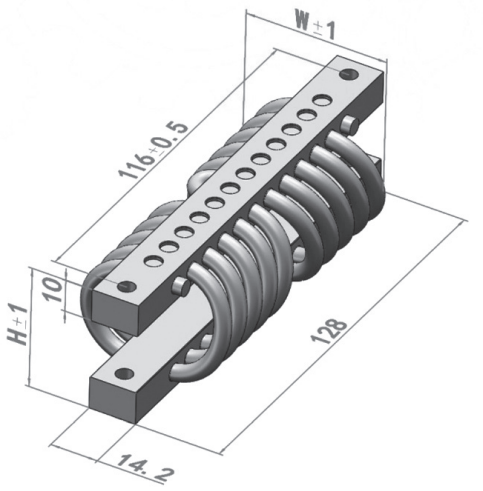
- R: Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- G: Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- P: Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- T: Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- D: Installation method
  See the right figure
- 10: Number of turns 10 turns (can be reduced)
- 01: Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGX04



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGX04-01	34	42	B,D,E	M6 or Ø7	120	58	26	350	175	100	10	16	11
WBGX04-02	38	43	A,B,C D,E,S		62	42	21	220	122	82	13	18	11
WBGX04-03	41	46			52	36	18	165	100	70	18	20	11
WBGX04-04	45	50			38	27	12	130	73	45	22	23	14
WBGX04-05	50	58			27	18	7.5	75	45	25	25	27	16
WBGX04-06	57	63			20	14	5.2	50	33	15	30	30	18

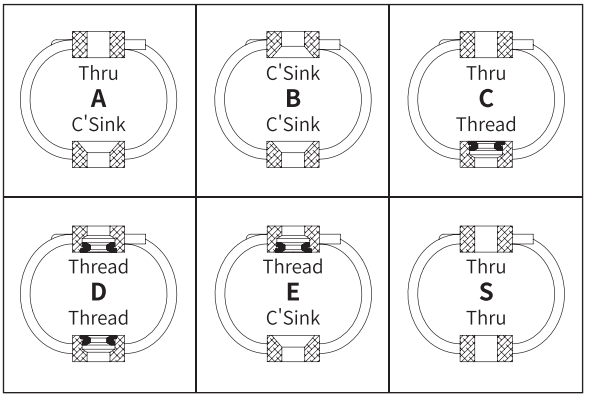
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGX04—01—10 D T P G R

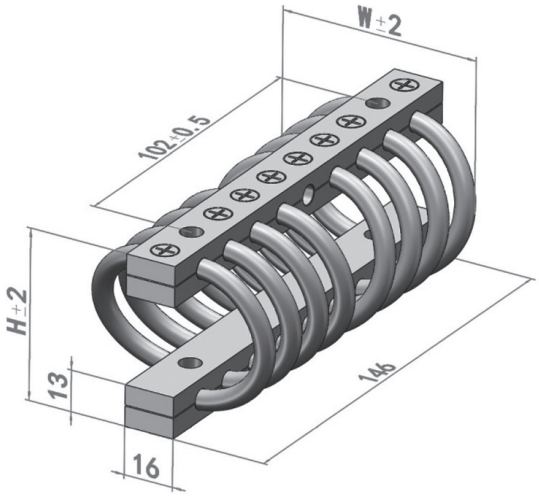
- Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- Installation method
  See the right figure
- Number of turns 10 turns (can be reduced)
- Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGZ05



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGZ05-01	48	56	C,D,S	M8 or Ø9	75	55	27	275	165	95	15	34	18
WBGZ05-02	54	64			55	35	17	155	90	52	20	41	23
WBGZ05-03	59	71			35	25	12	100	65	40	25	50	30
WBGZ05-04	64	80			30	19	9	68	45	25	28	53	37
WBGZ05-05	65	89			22	14	7.5	56	35	19	33	57	39
WBGZ05-06	67	95			19	12.5	4.5	50	27	12.5	38	70	50
WBGZ05-07	83	108			13	9	3.2	32	22	9	50	75	53

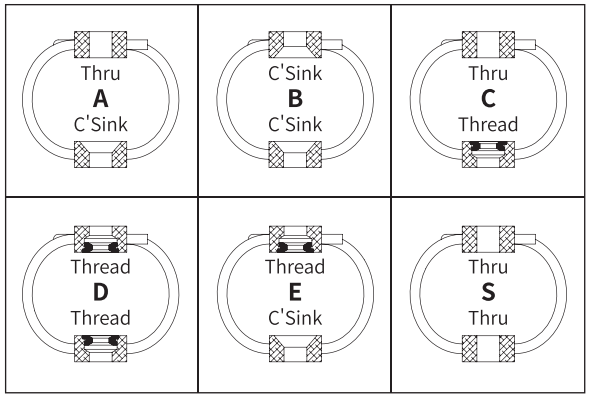
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGZ05—01—08 D T P G R

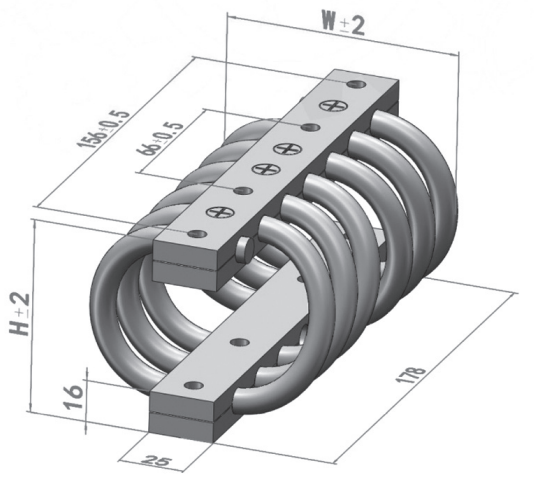
- R — Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- G — Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- P — Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- T — Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- D — Installation method
  See the right figure
- 08 — Number of turns 8 turns (can be reduced)
- 01 — Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGZ061



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGZ061-01	71	84	A,B,C D,E,S	M8 or Ø9	95	60	32	280	175	110	25	34	23
WBGZ061-02	75	90			65	45	26	190	120	83	28	46	25
WBGZ061-03	76	105			55	37	19.5	135	92	57	33	53	34
WBGZ061-04	83	108			43	32.5	13	115	78	36	38	64	37
WBGZ061-05	89	110			37	24	10.5	105	60	32	41	80	39
WBGZ061-06	105	121			33	20.5	8	83	44	24	46	91	46
WBGZ061-07	110	141			27	20	8.3	55	37	22	62	98	52
WBGZ061-08	130	150			21	15	6.8	42	27	20	81	105	60

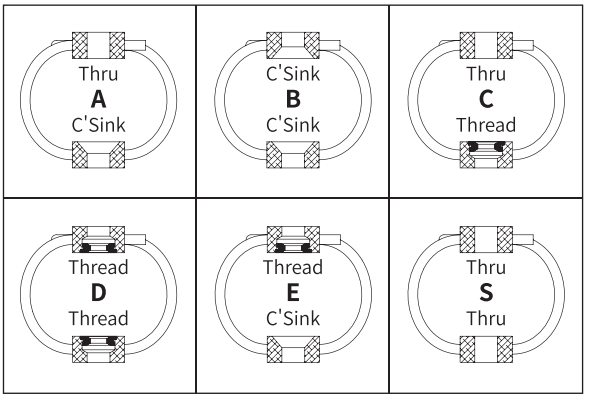
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGZ061—01—06 D T P G R

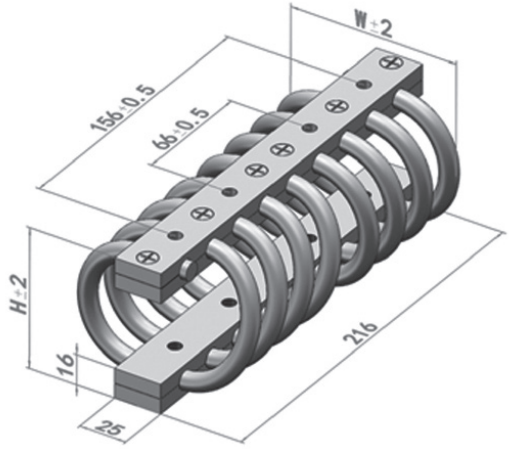
- R — Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- G — Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- P — Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- T — Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- D — Installation method
  See the right figure
- 06 — Number of turns 6 turns (can be reduced)
- 01 — Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGZ062



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGZ062-01	71	84	A,B,C D,E,S	M8 or Ø9	125	80	43	375	235	145	25	34	23
WBGOZ62-02	75	90			88	60	34	255	160	110	28	46	25
WBGZ062-03	76	105			70	49	26	180	120	75	33	53	34
WBGZ062-04	83	108			58	42	17	150	105	50	38	64	37
WBGZ062-05	89	110			49	32	14	140	80	42	46	80	39
WBGZ062-06	105	121			44	27	10.5	110	58	32	50	91	46
WBGZ062-07	110	141			35	26	11	75	48	28	62	98	52
WBGZ062-08	130	150			28	20	9	55	38	26	81	105	60

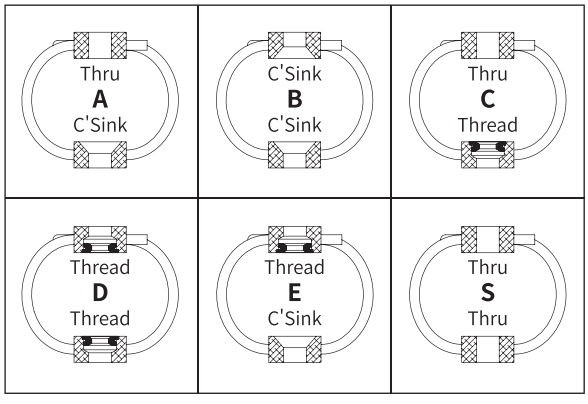
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGZ062—01—08 D T P G R

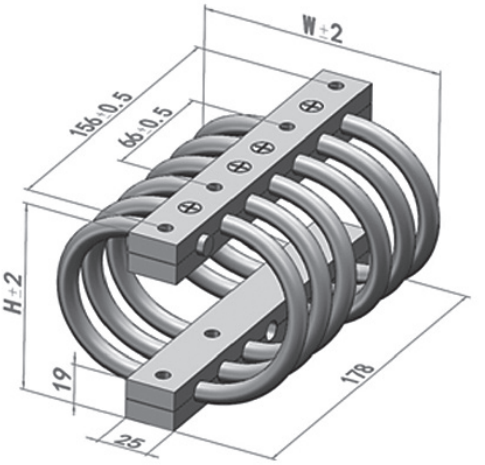
- Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- Installation method
  See the right figure
- Number of turns 8 turns (can be reduced)
- Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGZ071



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGZ071-01	90	105	A,B,C D,E,S	M8 or Ø9	125	90	50	380	240	155	40	62	25
WBGZ071-02	95	121			105	70	35	275	180	105	43	73	34
WBGZ071-03	108	133			60	42	20	168	110	60	58	80	41
WBGZ071-04	124	144			61	43	16	135	85	45	71	91	53
WBGZ071-05	137	156			50	35	13	105	65	36	90	103	59
WBGZ071-06	145	165			44	33	12	93	60	34	95	115	65

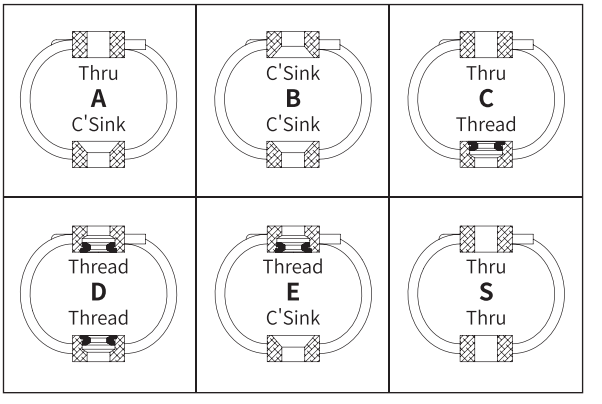
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGZ071—01—06 D T P G R

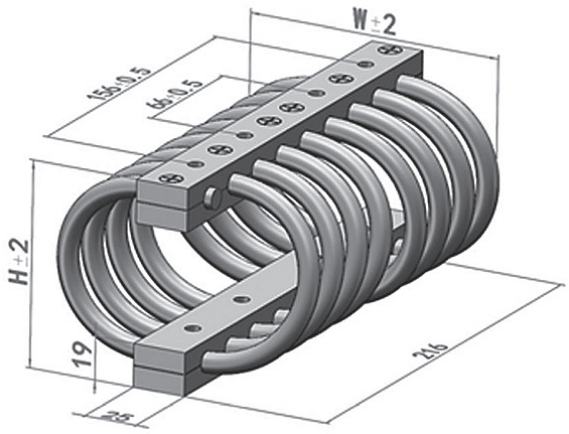
- R — Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- G — Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- P — Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- T — Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- D — Installation method
  See the right figure
- 06 — Number of turns 6 turns (can be reduced)
- 01 — Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGZ072



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGZ072-01	90	105	A,B,C D,E,S	M8 or Ø9	165	115	65	505	320	200	40	62	25
WBGZ072-02	95	121			140	95	45	365	240	140	43	73	34
WBGZ072-03	108	133			79	55	27	220	145	80	58	80	41
WBGZ072-04	124	144			80	56	22	180	115	60	71	91	53
WBGZ072-05	137	156			65	45	18	140	90	50	90	103	59
WBGZ072-06	145	165			60	42	16	125	80	45	95	115	65

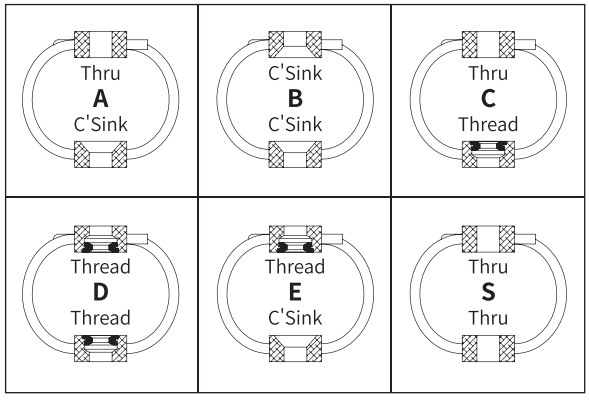
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGZ072—01—08 D T P G R

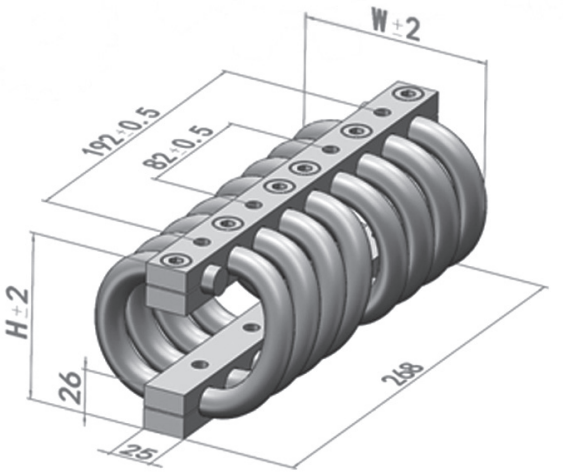
- R: Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- G: Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- P: Splint Options
  [ ] -Aluminum Alloy 6061 Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061 Surface Anodizing
  [P] -Stainless Steel 304 Surface Passivation Treatment
- T: Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- D: Installation method
  See the right figure
- 08: Number of turns 8turns (can be reduced)
- 01: Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGZ08



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGZ08-01	90	103	A,B,C D,E,S	M10 or Ø11	580	385	200	1620	1000	720	30	41	27
WBGZ08-02	99	112			375	245	150	1050	690	460	35	53	32
WBGZ08-03	109	135			350	200	70	820	490	220	46	65	41
WBGZ08-04	119	152			210	135	65	500	340	180	56	73	50
WBGZ08-05	127	165			197	150	60	420	280	165	63	82	57
WBGZ08-06	135	180			175	130	55	340	240	160	66	85	65
WBGZ08-07	177	194			135	93	30	250	165	90	85	90	70

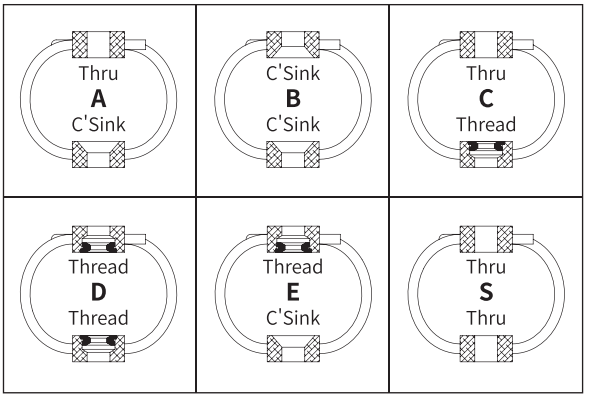
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGZ08—01—08 D T P G R

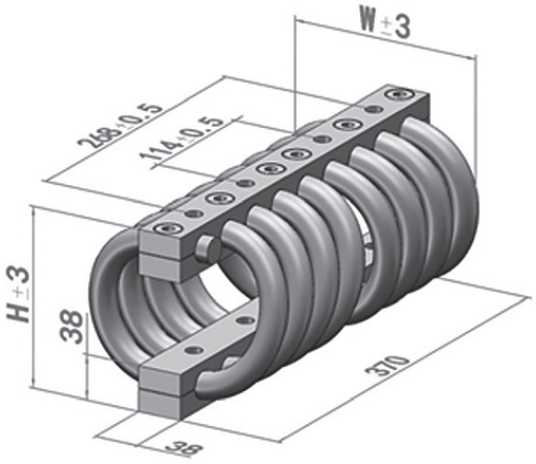
- R: Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- G: Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- P: Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- T: Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- D: Installation method
  See the right figure
- 08: Number of turns 8 turns (can be reduced)
- 01: Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGZ09



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGZ09-01	133	140	A,B,C D,E,S	M16 or Ø17	685	365	275	2450	1120	850	46	57	48
WBGZ09-02	152	165			465	250	196	1460	720	595	53	73	59
WBGZ09-03	159	178			445	215	160	1200	590	466	58	87	66
WBGZ09-04	191	210			345	240	95	720	485	290	86	107	75
WBGZ09-05	216	235			280	140	60	600	300	160	106	146	99

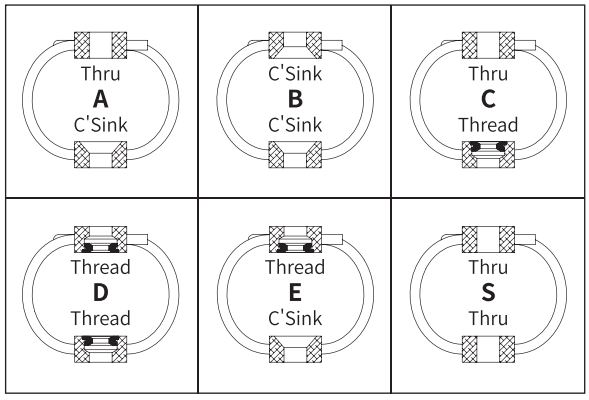
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGZ09—01—08 D T P G R

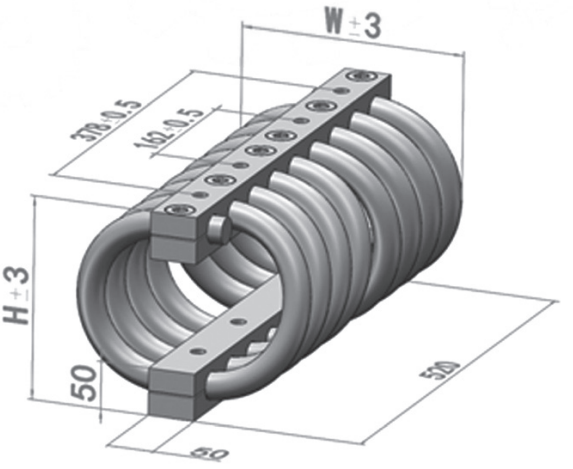
- R: Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- G: Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- P: Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- T: Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- D: Installation method
  See the right figure
- 08: Number of turns 8 turns (can be reduced)
- 01: Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGZ10



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGZ10-01	178	216	A,B,C D,E,S	M16 or Ø17.5	625	570	275	1800	1350	760	55	60	55
WBGZ10-02	216	241			455	415	175	1240	950	520	75	85	65
WBGZ10-03	235	260			410	265	140	1070	590	450	90	95	75

Note: Nominal load: the load of vibration isolator at 2mm static deformation

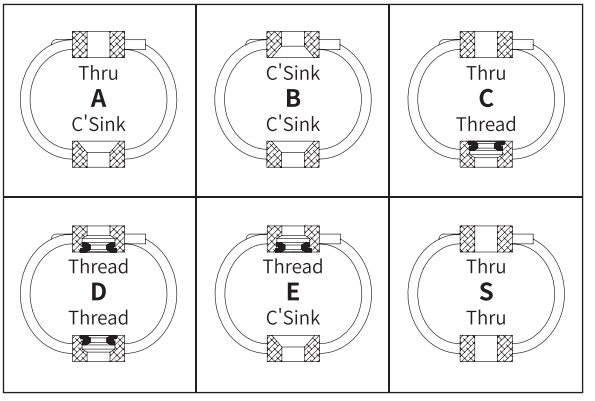
Product Labeling

WBGZ10—01—08 D T P G R

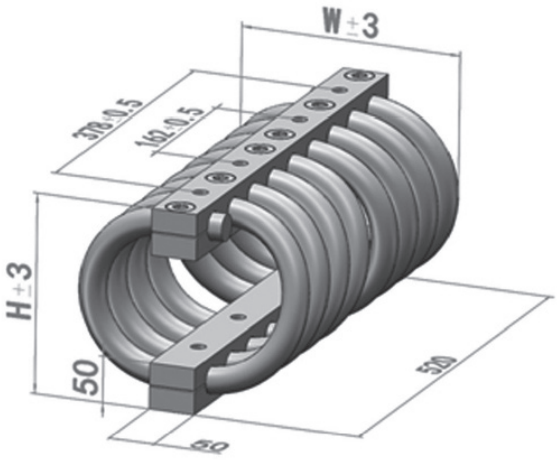
- Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- Installation method
  See the right figure
- Number of turns 8 turns (can be reduced)
- Dimension serial number
  See parameter table

Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

Installation Method Selection



WBGZ11



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGZ11-01	178	210	A,B,C D,E,S	M16 or Ø17.5	730	720	465	2400	1870	1450	56	65	43
WBGZ11-02	216	248			650	580	245	1650	1320	765	85	90	54
WBGZ11-03	235	270			565	410	200	1700	865	680	96	102	65

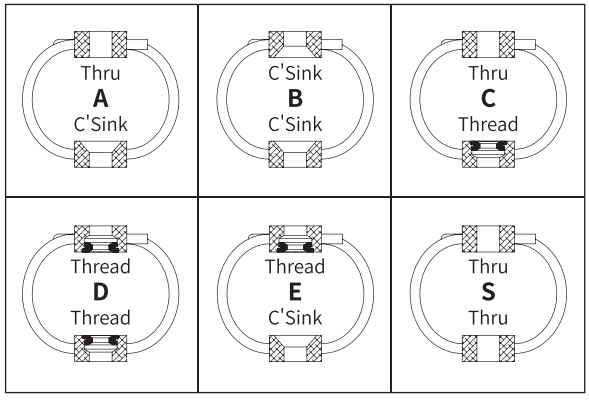
Note: Nominal load: the load of vibration isolator at 2mm static deformation

Product Labeling

WBGZ11—01—08 D T P G R

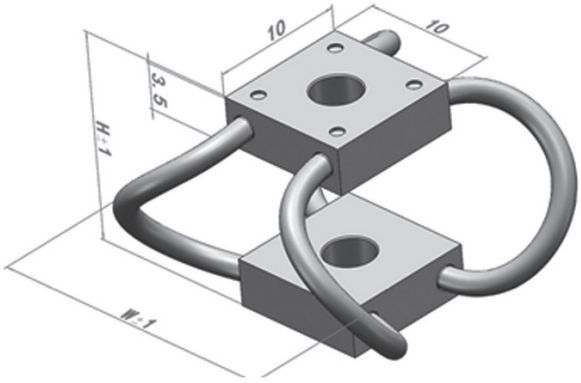
- Feature Options
  [ ] -Standard Rope Mouth
  [R] -Special Rope Mouth
- Rope Options
  [ ] -Standard 304
  [G] -Galvanized Steel
- Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- Thread Options
  [ ] -Tapping
  [T] -Inlaid Screw Sleeve
- Installation method
  See the right figure
- Number of turns 8 turns (can be reduced)
- Dimension serial number
  See parameter table

Installation Method Selection



Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

WBGD01



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGD01-01	11.2	17.8	C,D,S	M3 or Ø3.5	1.9	1.3	1.1	5.7	4.0	5.5	3	3	3
WBGD01-02	12.7	19.8			1.2	0.8	0.7	3.5	2.5	3.1	4	4	4
WBGD01-03	15.7	21.3			0.9	0.5	0.5	2.4	1.2	2.3	5	6	5

Note: Nominal load: the load of vibration isolator at 2mm static deformation

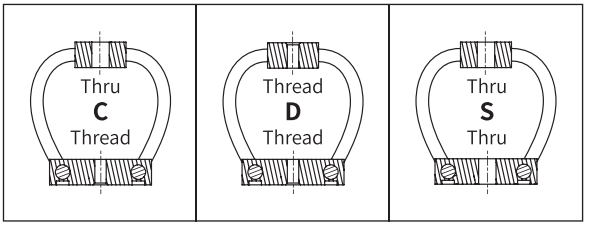
Product Labeling

WBGD01—01—D P

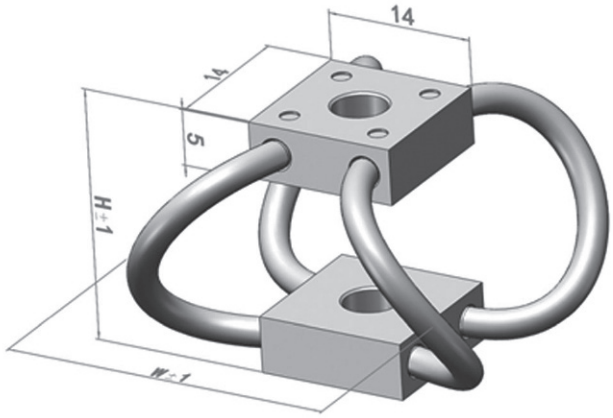
- P — Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- D — Installation method
  See the right figure
- 01 — Dimension serial number
  See parameter table

Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

Installation Method Selection



WBGD02



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGD02-01	17.8	25.4	C,D,S	M4 or Ø4.5	4.3	2.8	2.3	12	7.6	10.5	4	8	6
WBGD02-02	21.6	27.9			2.7	1.7	1.2	7.5	4.6	4.5	8	12	10
WBGD02-03	25.4	31.8			1.6	0.9	0.7	3.8	2.5	2.4	10	17	12

Note: Nominal load: the load of vibration isolator at 2mm static deformation

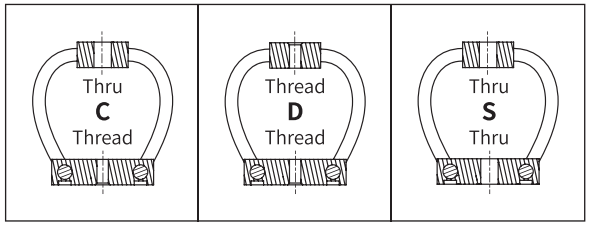
Product Labeling

WBGD02—01—D P

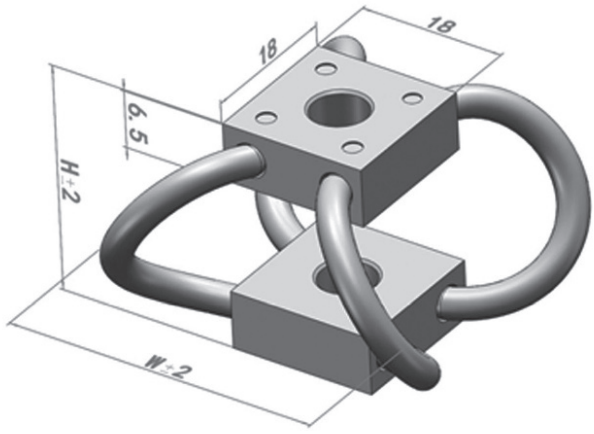
- P: Splint Options
  [ ] -Aluminum Alloy 6061 Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061 Surface Anodizing
  [P] -Stainless Steel 304 Surface Passivation Treatment
- D: Installation method See the right figure
- 01: Dimension serial number See parameter table

Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

Installation Method Selection



WBGD03



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGD03-01	22.9	31.8	C,D,S	M4 or Ø4.5	7	4.5	3.6	21.5	12.3	15.5	7	6	9
WBGD03-02	25.4	34.3			4.5	3	2.2	13.2	8	7.8	9	8	12
WBGD03-03	27.9	38.1			3	2	1.4	8	5.5	4.5	10	10	13

Note: Nominal load: the load of vibration isolator at 2mm static deformation

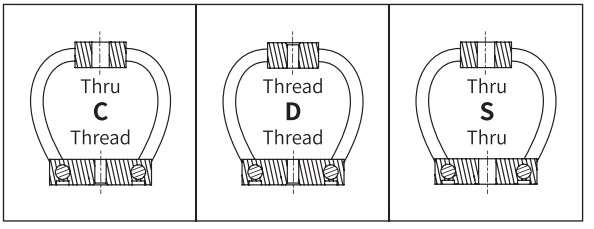
Product Labeling

WBGD03—01—D P

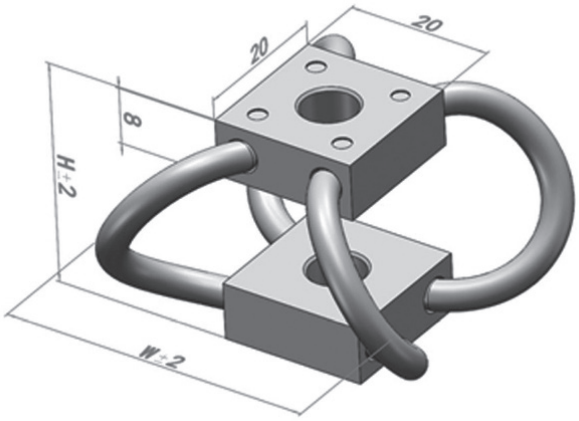
- P — Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- D — Installation method
  See the right figure
- 01 — Dimension serial number
  See parameter table

Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

Installation Method Selection



WBGD04



Model	Height mm	Width mm	Installation Method	Mounting Aperture	Nominal Load kg			Average Static Stiffness N/mm			Maximum Dynamic Deformation mm		
					Vertical	45°	Lateral	Vertical	45°	Lateral	Vertical	45°	Lateral
WBGD04-01	25.4	41.9	C,D,S	M5 or Ø5.5	7	5.5	3.8	21.5	14.5	14.5	8	8	11
WBGD04-02	30.5	47			4	3	2.3	11.2	6.8	6.7	11	12	12
WBGD04-03	36.8	50.8			3	2	1.7	7	5	5	15	18	13

Note: Nominal load: the load of vibration isolator at 2mm static deformation

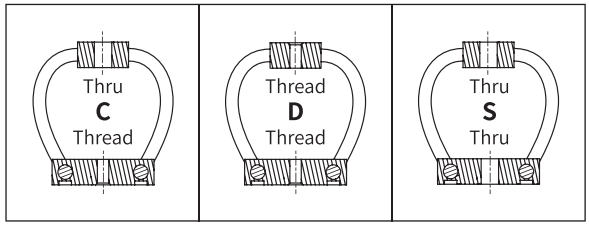
Product Labeling

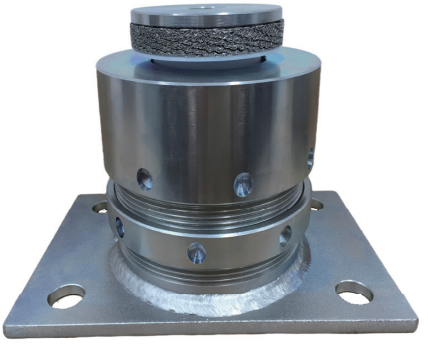
WBGD04—01—D P

- Splint Options
  [ ] -Aluminum Alloy 6061
  Surface Hard Oxidation
  [Y] - Aluminum Alloy 6061
  Surface Anodizing
  [P] -Stainless Steel 304
  Surface Passivation Treatment
- Installation method
  See the right figure
- Dimension serial number
  See parameter table

Note: the blank in the bracket indicates that it is produced according to the standard specification, Any non-standard option may extend the lead time.

Installation Method Selection





Features

- Elastic elements include 18/8 stainless steel elastic pad, coil spring or combination of elastic pad and coil spring;
- The common feature of all-metal spring parts is that they have extremely long service life and can withstand extreme temperature;
- In addition, they do not creep under load, even after years of use under harsh conditions.

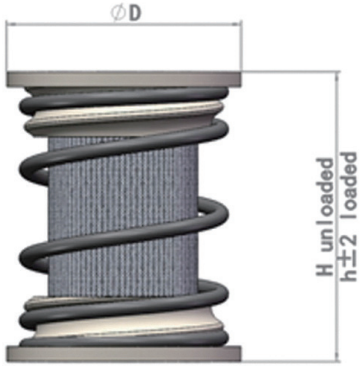
Performance

- Very good mechanical characteristics, especially the ability to withstand extremely high loads;
- Progressive static stiffness, providing the same pair of fixed natural frequencies over a wide range of loads;
- Excellent resistance to grease, oil, solvent, water, dust and chemical agents.

Application

- Isolation and buffering of electronic and mechanical equipment and instruments on the aircraft, vehicles and ships;
- Foundation elastic support of engine and various power machinery;
- Isolation and buffering of various precision electronic instruments, meters, calculators and communication equipment;
- Vibration isolation and earthquake resistance of key infrastructure facilities and buildings;
- Vibration isolation, earthquake resistance and buffering of construction machinery and general machinery;
- Vibration isolation and buffering of mechanical and electronic equipment and facilities under harsh environments such as high and low temperature and chemical pollution.

WBT01

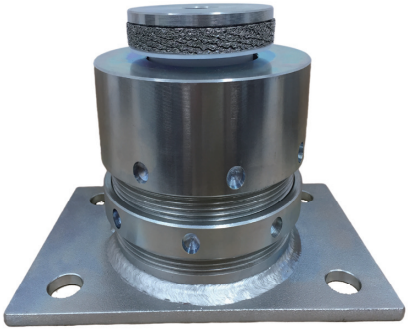


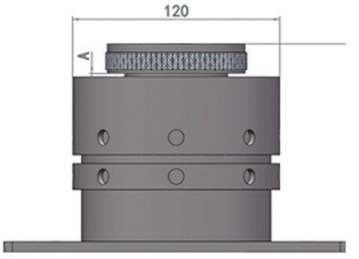
Model	D (mm)	d (mm)	H (mm)	h (mm)	Load (Kg)	Natural Frequency (Hz)
WBT01-01	47	M10	58	48	6-10	6-8 Hz
WBT01-02					8-14	
WBT01-03					12-20	
WBT01-04					18-30	
WBT01-05					24-46	
WBT01-06					40-75	
WBT01-07	78	M12	88	78	40-85	
WBT01-08					65-125	
WBT01-09					110-190	
WBT01-10					175-270	
WBT01-11					250-400	
WBT01-12					360-560	

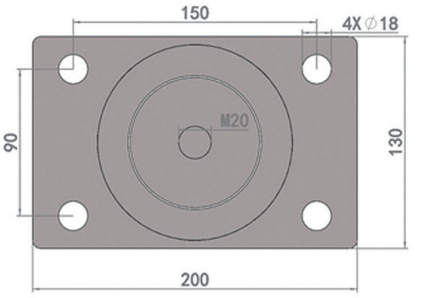
Product application

Fan, compressor, generator device, engine, etc.

WBT02





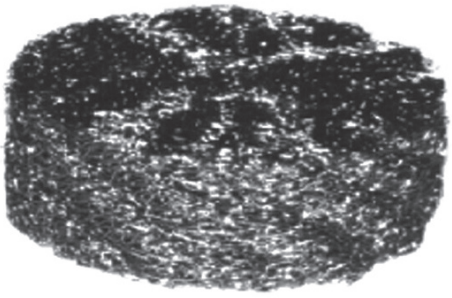


Model	Load (Kg)	Natural Frequency (Hz)
WBT02-01	150-350	5-9 Hz
WBT02-02	250-500	
WBT02-03	300-800	

Installation Instructions

When the unit is in working conditions, the built-in damper shall be adjusted. Turn the upper part of the housing to adjust until the distance (A) between the housing and the damper anti-vibration pad is 2mm.

According to the load, the height (H) of the mounting part shall be 105-115mm. When the damper is properly adjusted, the maximum displacement in all directions will be ± 4mm.



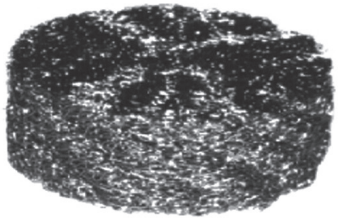
Features

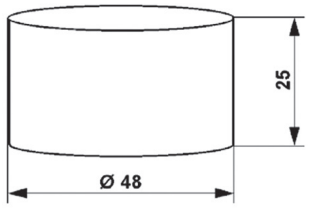
- Metal elastic elements made of 18/8 steel mesh. The elastic stiffness increases in a wide load range with a fixed natural frequency;
- The element does not creep with excellent resistance to oil, solvent, water, chemical agents and extreme temperature.

Application

- Isolation and buffering of electronic and mechanical equipment and instruments on the aircraft, vehicles and ships;
- Isolation and buffering of various precision electronic instruments, meters, calculators and communication equipment;
- Vibration isolation of heavy installations, gas turbines, offshore accommodation modules, etc.
- Protection of high power (impulse) such as punch press and power press.

WBW01





Product Description

Metal elastic elements made of 18/8 steel mesh. The elastic stiffness increases in a wide load range with a fixed natural frequency;

The element does not creep with excellent resistance to oil, solvent, water, chemical agents and extreme temperature.

Application Description

Isolation of machine tools, thermodynamic machines, transformers, etc.

The anti-vibration pad is applicable to isolation of "floating floor".

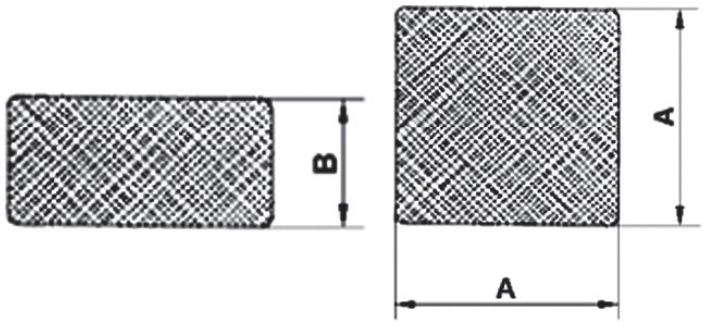
Product Features

Load Range: 25-250Kg

Natural Frequency: 12-15HZ

Temperature range: -90° C to +300° C

WBW02



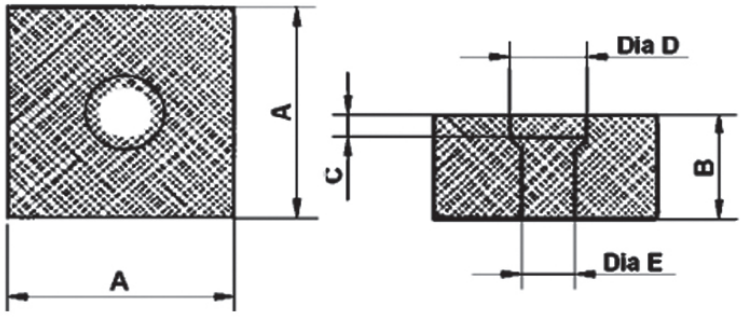
Model	A (mm)	B (mm)	Load (Kg)	Natural Frequency (Hz)
WBW02-01	50	25	30-300	12-15 Hz
WBW02-02	30	20	5-50	

Application Description

It is a very useful structural element of small machine tooling suspension, which is used to protect delicate equipment.

It can also be used as an elastic element of the anti-vibration pipe clamp.

WBW03



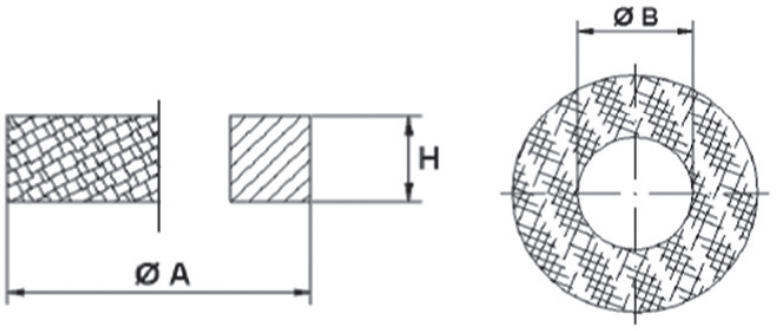
Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Load (Kg)	Natural Frequency (Hz)
WBW03-01	50	25	10	20	9	30-300	12-15 Hz
WBW03-02	30	20	8	11	6	5-50	

Application Description

It is a very useful structural element of small machine tooling suspension, which is used to protect delicate equipment.

It can also be used as an elastic element of the anti-vibration pipe clamp.

WBW04



Model	A (mm)	B (mm)	H (mm)	Load (Kg)	Natural Frequency (Hz)
WBW04-01	55	16	15	20-250	12-15 Hz
WBW04-02	72	34	21	100-1500	
WBW04-03	120	34	21	500-3000	
WBW04-04	160	70	21	1000-7000	

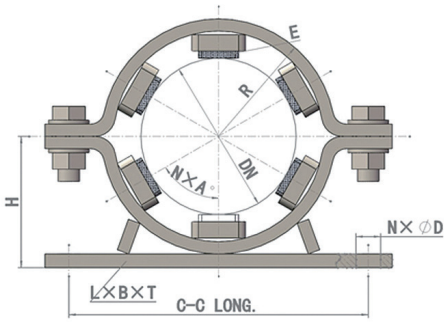
Application Description

Vibration isolation of all heavy installations, gas turbines, offshore accommodation modules, etc.

Protection of high power (impulse) such as punch press and power press.

As a "braking device", it is very useful for suspending ship equipment, such as auxiliary engine.

WBF



Model	DN mm	R mm	N×A°	E	H	L×B×T	N×∅D	C-C hole spacing	
								Long	Overlapping
WBF-100	114.3	77	6X60°	WBW02-02	95	245X70X10	2X18	220	—
WBF-125	139.7	90	6X60°	WBW02-02	108	280X70X10	2X18	246	—
WBF-150	168.3	104	8X45°	WBW02-02	122	308X70X10	2X18	274	—
WBF-175	193.7	117	8X45°	WBW02-02	135	334X70X10	2X18	300	—
WBF-200	219.1	135	6X60°	WBW02-01	153	370X90X10	2X18	336	—
WBF-250	273.0	162	6X60°	WBW02-01	180	424X90X10	2X18	390	—
WBF-300	323.9	187	8X45°	WBW02-01	209	488X100X12	2X22	450	—
WBF-350	355.6	203	8X45°	WBW02-01	225	520X100X12	2X22	482	—
WBF-400	406.4	228	8X45°	WBW02-01	325	486X150X10	4X23	406	110
WBF-450	457	254	10X36°	WBW02-01	345	517X150X10	4X23	437	110
WBF-500	508	279	10X36°	WBW02-01	366	548X150X10	4X23	468	110
WBF-600	610	330	10X36°	WBW02-01	407	609X150X10	4X23	529	110
WBF-700	711	380	12X30°	WBW02-01	447	670X150X10	4X23	590	110
WBF-800	813	431	12X30°	WBW02-01	492	720X150X10	4X23	640	110
WBF-900	914	482	16X22.5°	WBW02-01	551	810X150X10	4X23	730	110

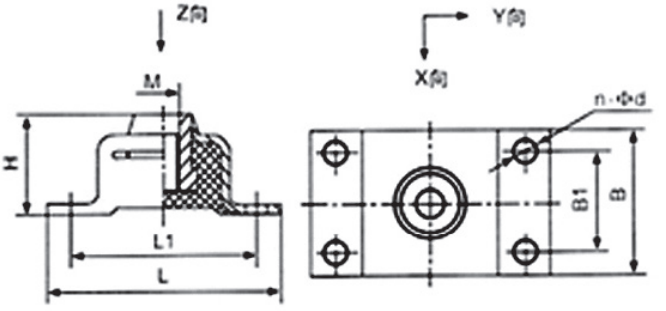
Features

- Very hard structural parts, allowing rapid disassembly and assembly of pipelines;
- Elastic elements will not creep with excellent resistance to oil, grease and corrosive agents so can be used in extreme environments.

Application

Elastic mounting parts for various pipes.

BE type Rubber Shock Absorber



Model	Outline and Connection Dimensions (mm)								Weight (Kg)
	M	L	L1	H	B	B1	N	d	
BE10	M8	70	54	40	36	—	2	Ø7	0.1
BE15	M8	70	54	40	36	—	2	Ø7	0.1
BE25	M8	70	54	40	40	—	2	Ø7	0.1
BE40	M10	85	68	46	55	—	2	Ø9	0.2
BE60	M12	100	80	50	65	—	2	Ø9	0.4
BE85	M14	120	100	60	70	—	2	Ø11	0.7
BE120	M16	140	112	60	85	—	2	Ø13	1.0
BE160	M18	145	115	62	90	—	2	Ø13	1.2
BE220	M22	150	120	62	100	—	2	Ø15	1.5
BE300	M24	155	125	67	105	60	4	Ø15	1.8
BE400	M27	160	130	67	110	65	4	Ø15	2.3

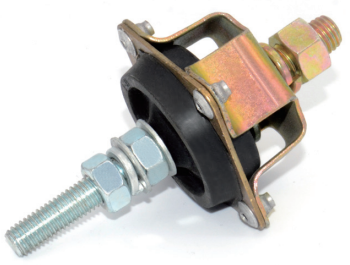
Model	Rated Load (N)				Deformation (mm)	Dynamic Stiffness (N/mm)				Frequency (Hz)	Damping Ratio (c/Cc)
	Z Front	Z Back	Y	X	Z	Z Front	Z Back	Y	X		
BE10	100	70	120	50		40	44	96	37		
BE15	150	100	170	70		60	67	145	55		
BE25	250	170	300	150		100	110	241	92		
BE40	400	280	450	200		161	178	387	148		
BE60	600	400	700	300		242	266	580	222		
BE85	850	600	1000	400	3.5-5	342	377	822	315	10±1.5	0.07- 0.11
BE120	1200	800	1350	600		483	533	1280	445		
BE160	1600	1100	1800	800		644	710	1570	560		
BE220	2200	1500	2400	1100		880	977	2268	816		
BE300	3000	2000	3300	1500		1210	1332	3093	1110		
BE400	4000	2800	4300	1800		1610	1776	4120	1480		

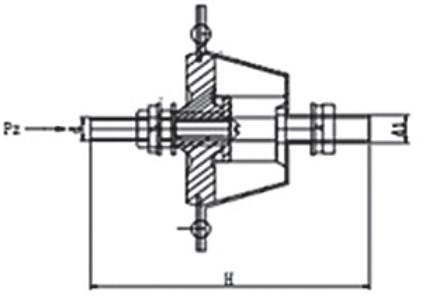
Note: Z front is the rated load for pedestal installation and Z back is the rated load for hanging installation.

Performance Features and Application Scope

- The shape and installation dimensions of BE series shock absorbers are the same as those of E-type and EA-type shock absorbers so to facilitate their update and exchange;
- The natural frequency of BE series shock absorbers under rated load is about 10Hz, which is significantly lower than that of E-type and EA-type shock absorbers. Its shock absorption effect is significantly higher than that of E-type and EA-type shock absorbers for the vibration and impact isolation performance of diesel engines, fans, water pumps, air compressors, motors and other marine, road and aviation mechanical equipment with more than 1500-3000 rpm;
- BE-type shock absorber has falling prevention structure, which can stay connected with the equipment without falling off after the rubber part is damaged or broken;
- It is applicable to various installation forms such as flat, side hanging, hanging, etc.

B-Type Reinforced Shock Absorber





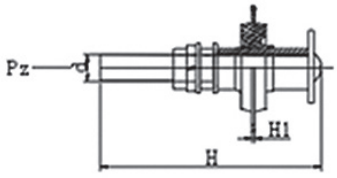
Model	A (mm)	B (mm)	H (mm)	d (mm)	d1 (mm)
B1	32	25	62.2	M4	M6
B2	45	35	89.5	M6	M8
B3	57	45	121	M10	M12

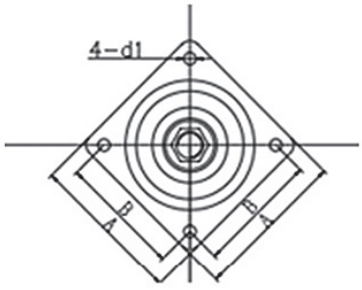
Model	Rated Load (kg)	Natural frequency under rated load in Z-direction (Hz)	Damping Ratio (c/Cc)	Product Quality (Kg)	Deformation under rated load in Z direction (mm)			Z-direction failure load (kg) shall not be less than	Operating Temperature Range (°C)	Impact Test
					Normal Atmospheric Temperature	High Temperature	Low Temperature			
B1-1	0.45	15±2	0.02	0.05	1.2~2.0	0.9~2.0	1.2~2.3	28	-40~+80	4g 2000 times
B1-2	0.9									
B1-3	1.35									
B1-4	1.8									
B1-5	2.25									
B2-4	1.8		0.05	0.11				80		6g 4000 times
B2-6	2.7									
B2-8	3.6									
B2-10	4.5									
B2-12	5.4									
B3-15	6.75		0.05	0.31				150		10g 4000 times
B3-20	9									
B3-25	11.25									
B3-35	15.75									

Performance Features and Application Scope

Applicable to protection, sound insulation and shock absorption of instruments, electrical appliances, lamps and light balancing machinery.

C-Type Non-Reinforced Shock Absorber





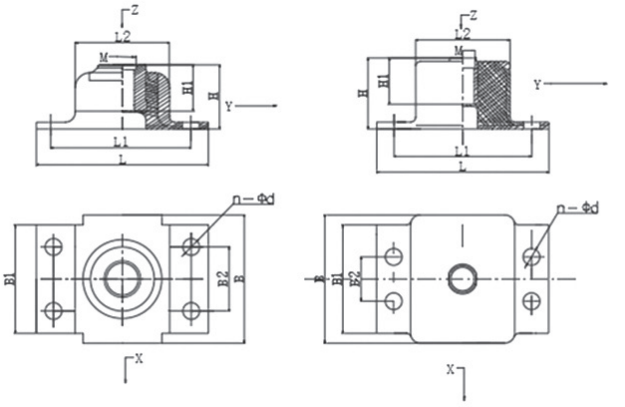
Model	A (mm)	B (mm)	H (mm)	h (mm)	d (mm)	d1 (mm)
C1	32	25	48.2	0.8	M4	Ø3.3
C2	45	35	64.5	1.2	M6	Ø4.4
C3	57	45	82.5	1.5	M10	Ø5.5

Model	Rated Load (kg)	Natural frequency under rated load in Z-direction (Hz)	Damping Ratio (c/Cc)	Product Quality (Kg)	Deformation under rated load in Z direction (mm)			Z-direction failure load (kg) shall not be less than	Operating Temperature Range (°C)	Impact Test
					Normal Atmospheric Temperature	High Temperature	Low Temperature			
C1-1	0.45	15±2	0.02	0.05	1.2~2.0	0.9~2.0	1.2~2.3	28	-40~+80	4g 2000 times
C1-2	0.9									
C1-3	1.35									
C1-4	1.8									
C1-5	2.25									
C2-4	1.8		0.05	0.11				80		6g 4000 times
C2-6	2.7									
C2-8	3.6									
C2-10	4.5									
C2-12	5.4									
C3-15	6.75		0.05	0.31				150		10g 4000 times
C3-20	9									
C3-25	11.25									
BC-35	15.75									

Performance Features and Application Scope

Applicable to protection, sound insulation and shock absorption of instruments, electrical appliances, lamps and light balancing machinery.

E&EA-Type Shock Absorber



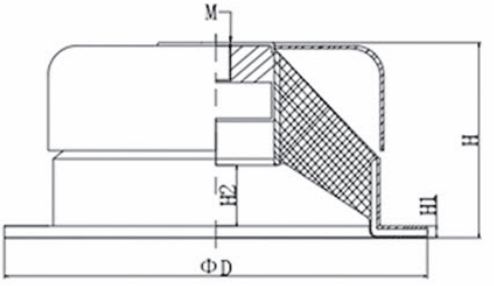
Model	Outline and Connection Dimensions (mm)										Weight (Kg)
	L	L1	L2	B	B1	B2	H	H1	M	n-d	
E10	70	54	40	35	35	—	40	27	M8	2-Ø7	0.18
E15	70	54	40	40	40	—	40	27	M8	2-Ø7	0.22
E25	70	54	40	40	40	—	40	27	M8	2-Ø7	0.22
EA25	70	54	40	48	40	—	40	27	M8	2-Ø7	0.22
E40	85	68	48	55	55	—	46	32	M10	2-Ø9	0.42
EA40	85	68	48	63	55	—	46	32	M10	2-Ø9	0.42
E60	100	80	56	65	65	—	50	35	M12	2-Ø9	0.72
EA60	100	80	56	73	65	—	50	35	M12	2-Ø9	0.72
E85	120	100	76	70	70	—	60	42	M14	2-Ø11	1.14
EA85	120	100	76	80	70	—	60	42	M14	2-Ø11	1.14
E120	140	112	80	85	85	—	65	46	M16	2-Ø13	1.6
EA120	140	112	80	101	85	—	65	46	M16	2-Ø13	1.6
E160	145	115	81	108	90	—	60	42	M18	2-Ø13	1.95
EA160	145	115	81	108	90	—	60	42	M18	2-Ø13	1.95
E220	150	120	86	118	110	—	60	42	M22	2-Ø15	2.37
EA220	150	120	86	118	110	—	60	42	M22	2-Ø15	2.37
E300	155	125	88	125	105	60	65	47	M22	2-Ø15	2.9
EA300	155	125	88	125	105	60	65	47	M22	2-Ø15	2.9
E400	175	140	96	130	110	65	65	47	M27	2-Ø17	3.4
EA400	175	140	96	130	110	65	65	47	M27	2-Ø17	3.4

Model	Rated Load (N)			Static deformation (mm)	Dynamic Stiffness (N/mm)			Natural Frequency (Hz)			Damping Ratio (c/Cc)
	Z	X	Y		Z	X	Y	Z	X	Y	
E10	100	50	100	0.6±0.3	330	350	500	28.5	29.5	35	0.08~0.12
E15	150	100	150	0.7±0.3	450	430	660	27	27	33	
E25	250	100	250	0.9±0.3	750	690	880	27	26	29.5	
EA25	250	100	250	1.0±0.4	500	560	950	22	23.5	30.5	
E40	400	150	400	0.7±0.3	1300	740	1100	28.5	21.5	26	
EA40	400	150	400	1.2±0.4	870	800	1000	23	22.5	25	
E60	600	250	600	0.7±0.3	1600	900	1400	25.5	19.5	24	
EA60	600	250	600	1.2±0.4	1500	900	1900	25	19.5	28	
E85	850	350	850	0.6±0.3	2000	1000	1900	24	17	23.5	
EA85	850	350	850	1.0±0.4	1850	1000	2100	23	17	25	
E120	1200	500	1100	0.9±0.3	2500	1100	2100	23	15	21	
EA120	1200	500	1100	1.5±0.4	1530	800	1700	18	13	19	
E160	1600	700	1500	0.6±0.3	5500	1400	2800	29	14.5	21	
EA160	1600	700	1500	1.0±0.4	4000	1150	2450	25	13.5	19.5	
E220	2200	800	1900	0.6±0.3	7000	1500	3500	28	13	20	
EA220	2200	800	1900	1.1±0.4	4500	1400	2800	22.5	12.5	18	
E300	3000	900	2100	0.6±0.3	11000	2260	5500	30	13.5	21.5	
EA300	3000	900	2100	1.1±0.4	5600	1500	3350	21.5	11	16.5	
E400	4000	1000	2600	0.7±0.3	13000	2400	6200	28.5	12	20	
EA400	4000	1000	2600	1.1±0.4	6500	1700	5000	20	10.5	17.5	

Performance Features and Application Scope

- E-type and EA-type protective rubber shock absorbers are mainly used for diesel engines, air compressors, water pumps, fans and other marine auxiliary engines, electronic and electrical equipment;
- E-type and EA-type protective rubber shock absorbers have falling prevention structure, which can stay connected with the equipment after the rubber part is damaged or broken;
- The natural frequency of E-type shock absorber under rated load is about 30Hz, and the natural frequency of EA-type shock absorber is 30Hz, which is slightly lower than that of E-type shock absorber;
- It is applicable to various installation methods such as flat, side hanging and hanging of equipment, with simple installation and convenient disassembly.

JG-Type Shear Shock Absorber



Model	M	D (mm)	H (mm)	H1 (mm)	H2 (mm)	Weight (Kg)
JG1	M12	100	43	6	15	0.35
JG2	M16	200	87	7	33	2.20
JG3	M20	290	133	8	53	6.00

Product application

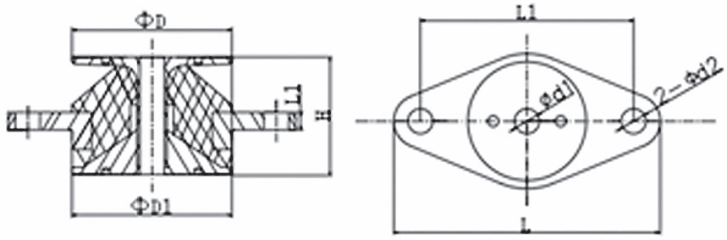
- Active vibration isolation is to prevent or reduce the influence of the vibration source of the supported system on the outside, and negative vibration isolation is to prevent or reduce the influence of the external vibration source on the supported system;
- For safety, 1/3-1/2 of the limit deflection is used as the application range of compression deformation, and the safety factors are 2.5 and 2.0 respectively;
- Under the same deflection, the same type of shock absorber has basically the same vertical natural frequency number of the supported system, while the transverse natural frequency under the vertical load changes with the load (deflection), and its value is about 1.5 times of the vertical frequency;
- The working temperature range is - 5 °C to + 50 °C. When the temperature changes, the stiffness changes;
- Damping ratio of shock absorber c/Cc≥0.07;
- When the shock absorber is used in series (with the small end connected), the deformation is doubled, the stiffness and the frequency are reduced by half under the same load.

Model		Active Vibration Isolation			Negative Vibration Isolation			Limit Deflection (mm)	Failure Load ≤(Kg)
		Rated Load (Kg)	Deformation (mm)	Natural Frequency (Hz)	Rated Load (Kg)	Deformation (mm)	Natural Frequency (Hz)		
JG1	-1	19	3～5.5	10.8～15.3	24	4～6.5	10～13	12	92
	-2	27			32				165
	-3	37			46				182
	-4	48			59				238
	-5	58			70				290
	-6	70			86				320
	-7	84			103				380
JG2	-1	100	6～11.5	7～10	120	10～15.5	6.3～7.6	28	385
	-2	140			175				690
	-3	200			250				770
	-4	270			335				1000
	-5	330			410				1230
	-6	405			500				1350
	-7	483			600				1600
JG3	-1	300	10.5～22	5.1～7.4	370	15～26.5	4.7～6.3	50	930
	-2	420			510				1670
	-3	580			710				1860
	-4	720			900				2400
	-5	920			1130				3000
	-6	1080			1320				3200
	-7	1260			1540				3800

Performance Features and Application Scope

It can be used as a damping element for anti-vibration foundation of precision instruments, precision machine tools, power machine tools, air conditioning equipment, constant temperature equipment, fans, generator sets, compressor sets and centrifuges, and has good effects on vibration isolation, vibration elimination and impact resistance.

6JX-Type Shock Absorber



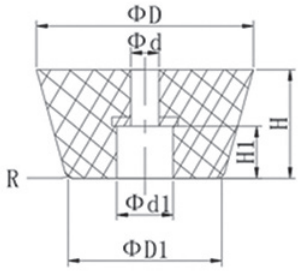
Model	D	D1	L1	L	H1	H	d1	d2	Weight (Kg)
6JX-1200	193	224	288	340	26	135	36	26	21
6JX-900	165	190	244	290	22	115	33	24	12.5
6JX-400	140	165	210	248	18	108	26	20	7.3
6JX-200	88	88	140	172	13	80	19	16	1.9
6JX-70	82	82	136	168	12	68	16	16	1.26
6JX-45	76	76	120	150	10	66	14	14	1.05

Model	Rated Vertical Load (Kg)	Applicable Scope (Kg)	Deformation Under Rated Load (mm)	Natural Frequency (Hz)	Damping Ratio (c/Cc)
6JX-1200	1200	600～1200	22±4.5	6.5±1	0.05～0.08
6JX-1200N	1200	600～1200	22±4.5	8±1	0.08～0.14
6JX-900	900	400～900	18±4	6±1	0.05～0.08
6JX-900N	900	400～900	18±4	8±1	0.08～0.14
6JX-400	400	200～400	14±3	6.5±1	0.05～0.08
6JX-400N	400	200～400	14±3	8±1	0.08～0.14
6JX-200	200	100～200	15±3	6.5±1	0.05～0.08
6JX-200N	200	100～200	15±3	8±1	0.08～0.14
6JX-70	70	45～70	11±2	6±1	0.05～0.08
6JX-70N	70	45～70	11±2	8±1	0.08～0.14
6JX-45	45	25～45	9±2	6.5±1	0.05～0.08
6JX-45N	45	25～45	9±2	8±1	0.08～0.14

Performance Features and Application Scope

- This type of shock absorber adopts a closed structure, which can ensure its connection with the equipment and foundation and ensure the normal operation of the equipment even if the rubber part is damaged and broken;
- It has a low natural frequency and equal frequency characteristics. Within the range from 1/2 rated load to rated load, the natural frequency of the shock absorber changes very little;
- The load- deformation is nonlinear and gradually hardening;
- It has a wide load range and large deformation with good impact resistance;
- It is generally used under axial (Z-direction) load.

JJ-Type Support Shock Absorber



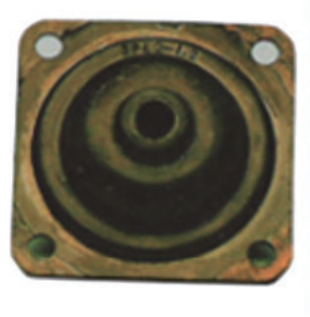
Model	H (mm)	H1 (mm)	D (mm)	D1 (mm)	d (mm)	d1 (mm)	Weight (Kg)
JJ10	9	5	14	12	3.2	7	0.001
JJ40	13	7.5	28	24	4.2	9	0.010
JJ30	18	11	32	24	6.5	11	0.015
JJ60	25	12	50	36	6.5	13	0.050

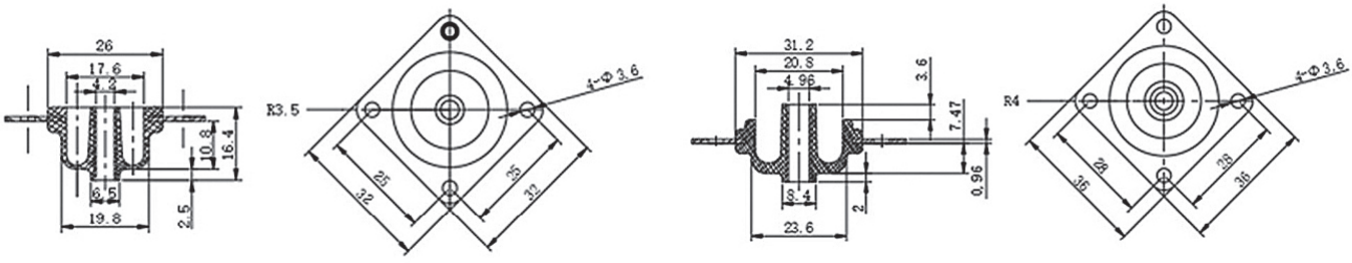
Model	Rated Load (Kg)	Deflection deformation value under rated load in Z direction (mm)	Operating Temperature Range (°C)	Damping Ratio (c/Cc)
JJ10	10	1.0～2.2	-40～+50	0.04
JJ30	30			
JJ40	40			
JJ60	60			

Performance Features and Application Scope

In radio equipment, it is used to protect the whole piece from impact and vibration.

JPL-Type Small Aviation Shock Absorber





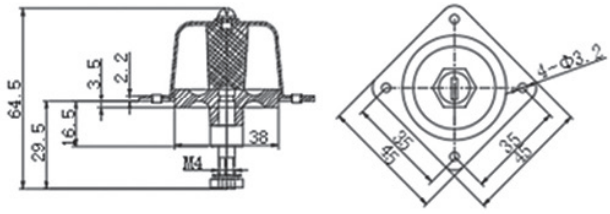
JPL1 JPL2

Model	Rated Load (Kg)	Static deformation under rated load (mm)	Natural frequency under rated load in Z-direction (Hz)	Ultimate static load (Kg)	Damping Ratio (c/Cc)	Weight (Kg)
JPL1-0.3	0.3	2.3±0.45	11.5±1.5	30	0.04	0.009
JPL1-0.6	0.6			30		0.009
JPL1-0.9	0.9			30		0.009
JPL2-1.2	1.2			60		0.0242
JPL2-1.6	1.6			60		0.0242
JPL2-2.0	2.0			60		0.024

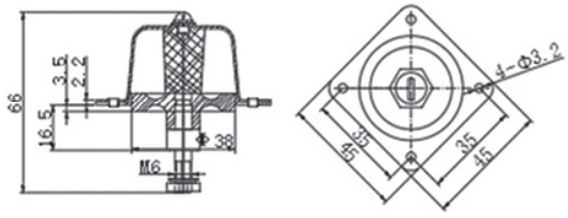
Performance Features and Application Scope

It is used for various anti shock and anti-impact instruments and meters in aerospace, aviation, ground transportation, navigation ships, etc..

JPZ Three-Way Equal Stiffness Shock Absorber



JPZ1



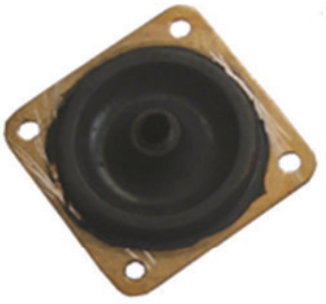
JPZ2

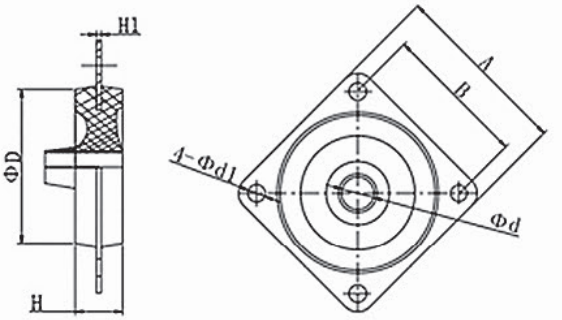
Model	Rated Load (Kg)	Three-dimensional static deformation under 3 times of rated load (mm)			Natural frequency under three-way rated load (Hz)	Ultimate static load (Kg)	Damping Ratio (c/Cc)	Weight (Kg)
		Normal Atmospheric Temperature	High Temperature	Low Temperature				
JPZ1-0.35	0.35	2.6±0.4	2.6±0.5	2.6(+0.4/-0.6)	18.5±1.5	15	0.04	0.0575
JPZ1-0.50	0.50					15		0.0575
JPZ1-0.75	0.75					25		0.0575
JPZ2-1.15	1.15					35		0.0695
JPZ2-1.70	1.70					50		0.0695
JPZ2-2.50	2.50					65		0.0695

Performance Features and Application Scope

It is used for three-way equal frequency vibration isolation and buffering on aviation instruments.

JP-Type Flat Plate Shock Absorber





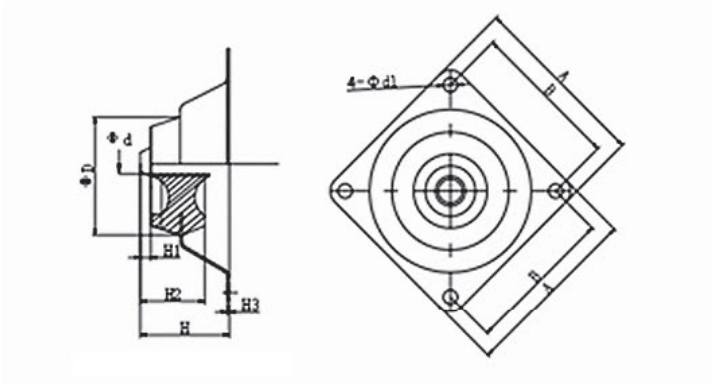
Model	A (mm)	B (mm)	H (mm)	H1 (mm)	D (mm)	d (mm)	d1 (mm)
JP1	32	25	10	0.8	Ø25	Ø4.2	Ø3.3
JP2	45	35	16	1.2	Ø38	Ø6.2	Ø4.4
JP3	57	45	25	1.5	Ø51	Ø10.2	Ø5.5

Model	Rated Load (Kg)	Natural frequency under rated load in Z-direction (Hz)	Damping Ratio (c/Cc)	Weight (Kg)	Deformation under rated load in Z direction (mm)			Z-direction failure load (kg) shall not be less than	Operating Temperature Range (°C)	Impact Test
					Normal Atmospheric Temperature	High Temperature	Low Temperature			
JP1-1	0.45	15±2	0.02	0.05	1.2～2.0	0.9～2.0	1.2～2.3	28	-40～+80	4g 2000 times
JP1-2	0.90									
JP1-3	1.35									
JP1-4	1.80									
JP1-5	2.25									
JP2-4	1.80		0.05	0.11				80		6g 4000 times
JP2-6	2.70									
JP2-10	4.50									
JP2-12	5.40									
JP3-15	6.75		0.05	0.31				150		10g 4000 times
JP3-20	9.00									
JP3-25	11.25									
JP3-35	15.75									

Performance Features and Application Scope

In radio equipment, it is used to protect the whole piece from impact and vibration.

JW-Type Bowl Shock Absorber



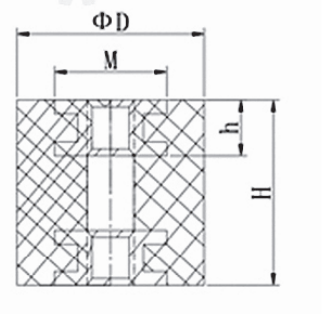
Model	A (mm)	B (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	D (mm)	d (mm)	d1 (mm)
JW1	42	35	18	4	10	0.6	25	4.2	3.6
JW2	60	50	29.5	4.5	16	0.8	38	6.2	4.8
JW3	76	64	38	4.5	25	1.0	50	10.2	6.0

Model	Rated Load (Kg)	Natural frequency under rated load in Z-direction (Hz)	Damping Ratio (c/Cc)	Weight (Kg)	Deformation under rated load in Z direction (mm)			Z-direction failure load (kg) shall not be less than	Operating Tempera-ture Range (°C)	Impact Test
					Normal Atmospheric Temperature	High Temperature	Low Temperature			
JW1-1	0.45	15±2	0.02	0.05	1.2～2.0	0.9～2.0	1.2～2.3	28	-40～+80	4g 2000 times
JW1-2	0.90									
JW1-3	1.35									
JW1-4	1.80									
JW1-5	2.25									
JW2-4	1.80		0.05	0.085				80		6g 4000 times
JW2-6	2.70									
JW2-8	3.60									
JW2-10	4.50									
JW2-12	5.40									
JW3-15	6.75		0.05	0.185				150		10g 4000 times
JW3-20	9.00									
JW3-25	11.25									
JW3-35	15.75									

Performance Features and Application Scope

In radio equipment, it is used to protect the whole piece from impact and vibration.

JZ-Type Strut Shock Absorber



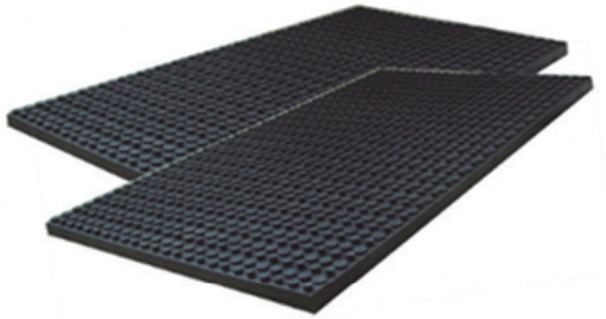
Model	M	D (mm)	H (mm)	h (mm)	Weight (Kg)
JZ4	M5	20	30	9	0.012
JZ8	M8	30	30	9	0.038
JZ15	M10	40	40	12	0.064

Model	Rated Load (Kg)	Tensile deformation under rated load in Z direction (mm)	Z-direction failure load (kg) shall not be less than	Operating Temperature Range (°C)	Damping Ratio (c/Cc)
JZ4	4	0.72 ～1.54	30	-40 ～+50	0.05
JZ8	8	0.42～0.91	60		
JZ15	15	0.60 ～1.40	115		

Performance Features and Application Scope

In radio equipment, it is used to protect the whole piece from impact and vibration.

WJ rubber damping pad



Overall Dimension: 460*240*18 (mm)
Weight: 1.87 (Kg)

Model	Bearing Capacity (Kg/cm^2)	Deformation of corresponding gravity unit under rated load (cm)	Natural frequency of corresponding gravity unit under rated load (Hz)	Gravity unit ultimate static load (Kg/cm^2)	Operating Temperature Range (°C)	Damping Ratio (c/Cc)
WJ-40	2～4	4.2±0.5 at 3Kg/cm^2	13.8±1	30	-10～+40	> 0.06
WJ-60	4～6	4.2±0.5 at 5Kg/cm^2		50		
WJ-85	6～8	3.5±0.5 at 7Kg/cm^2	17.5±1	70		
WJ-90	8～10	3.5±0.5 at 9Kg/cm^2		90		

Product Application

WJ rubber damping pad shall be used for negative vibration isolation of punch, ball mill, plate shearing machine, printing machine, etc. and instruments.

Selection method of damping pad

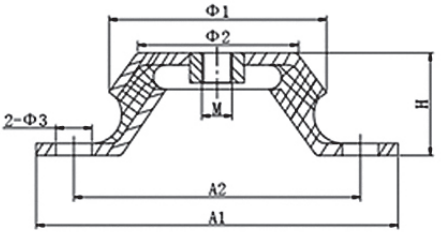
1. The area of standard damping pad is 24*46cm^2, The central area connecting the four bulges is 1cm^2;
2. Determine the area of the damping pad according to the weight and working conditions of the equipment, and cut it on the standard pad;
3. Damping pad area = equipment weight/bearing capacity of the selected damping pad;
4. For equipment with impact and weighting, the overweight coefficient shall be considered.

Application Exemple

The equipment weighs 3500kg and has six fulcrums with the shape of ø 12. As the equipment has high horizontal requirements, Wj-85 is selected. Considering the vibration and weighting during equipment operation, about 30% of the equipment weight shall be appropriately increased during calculation:

Bearing area=3500*1.3/7Kg/cm^2 =650cm^2 Single bearing area =650cm^2/ 6=100cm^2 the damping pad shall expose one centimeter under the support, and all pads shall be cut by 12*12cm^2.

ZA-Type Small Aviation Shock Absorber



Model	∅1 (mm)	∅2 (mm)	∅3 (mm)	A1 (mm)	A2 (mm)	H (mm)	M	Weight (Kg)
ZA-30	63	53	9	110	80	30	M10	0.36
ZA-35	73	60	11	128	100	35	M12	0.48
ZA-39	104	82	13.5	172	135	39	M16	0.60
ZA-49	144	115	14.5	212	182	49	M16	1.15

Performance Requirements

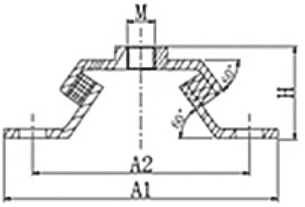
1. When single point bearing ⩽50Kg, ZA-30 shock absorber is selected and the deformation can be customized according to requirements;
2. When single point bearing ⩽150Kg, ZA-35 shock absorber is selected and the deformation can be customized according to requirements;
3. When single point bearing ⩽250Kg, ZA-39 shock absorber is selected, and the deformation can be customized according to requirements;
4. When single point bearing⩾250Kg but ⩽800Kg, ZA-49 shock absorber is selected, and the deformation can be customized according to requirements;
5. ZA-type rubber shock absorber is applicable to shock absorption of wind turbine generator, water pump, diesel generator and other equipment, with wide application range and good shock absorption effect;
6. Compared with similar shock absorbers, ZA-type shock absorber has the advantages of good vibration isolation effect, small volume, light weight, low height, stable performance and low price;
7. Convenient installation: in most applications, it can be directly placed between the isolated unit and the ground (or add a seat under the unit). Generally, foundation bolt or traditional concrete foundation is not needed. Therefore, the construction can be completed in a short period with a low investment. It is an ideal product for vibration isolation of domestic power machinery at present.

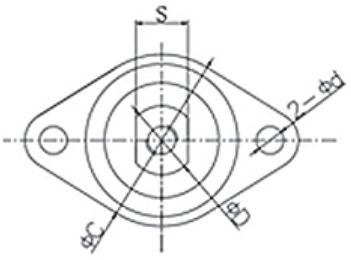
Model	Load Range (N)	Deformation (mm)	Vertical natural frequency (Hz)	Operating Temperature Range (°C)	Damping Ratio (c/Cc)
ZA-30-40	300-600	1.0-2.8	14-10	-40～+70	0.07
ZA-30-50	500-800	1.3-2.6	14-10		
ZA-35-30	800-1000	1.0-3.5	15-11		0.08
ZA-35-40	1000-1200	1.5-3.5	14.5-10		
ZA-35-50	1200-1500	1.5-3.6	13.5-10.5		
ZA-35-60	1500-2000	1.6-3.8	14-9.5		
ZA-39-40	980-3920	1.3-4.8	15-10		
ZA-39-50	1470-4410	1.6-4.1	13.5-9		
ZA-39-60	1960-5390	1.5-4.0	13-9		
ZA-39-70	2450-6370	1.2-3.8	13-10		
ZA-49-40	2450-5390	3.8-8.0	10-8.5		
ZA-49-50	2940-7350	2.0-5.7	14-9.5		
ZA-49-60	3920-9800	2.4-5.5	15-10		
ZA-49-70	4900-11760	2.3-4.5	15-11		

Performance Features and Application Scope

1. It can be widely used in various machinery, instruments, machine tools, equipment, power machines, etc;
2. It can be considered to have an equal three-dimensional stiffness (also three-dimensional equal frequency);
3. The bowl type upper cover is used to protect the rubber from sunshine and oil, thus increasing the service life of the rubber;
4. Compact structure, light weight and even appearance make it very convenient to install and use;
5. It can be used in series in pairs, with reduced cost, vertical stiffness, and good usability for high vibration isolation efficiency and low-frequency interference source requirements;
6. This product is featured by large deformation. It is not allowed to be higher than 20% of the rated load when it is overloaded.

Z-Type Conical Shock Absorber





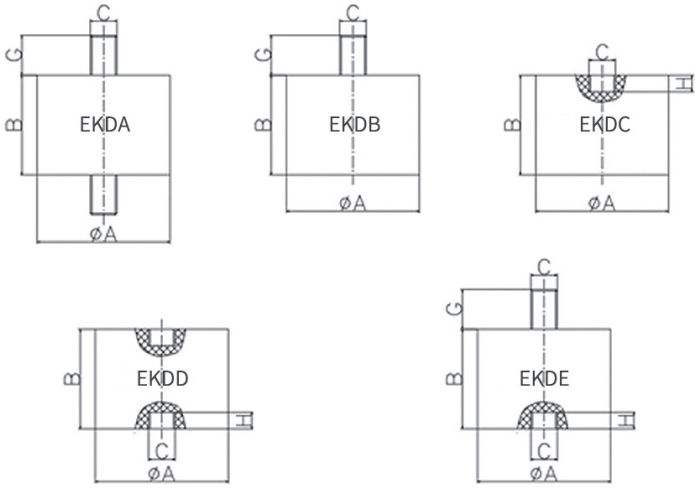
Model	M	A (mm)	B (mm)	C (mm)	D (mm)	S (mm)	H (mm)	d (mm)	Weight (Kg)
Z1	M12	120	95	75	30	19	40	12	0.33
Z2	M16	170	140	115	40	28	58	14	0.90
Z3	M20	225	185	155	50	36	75	18	2.35
Z4	M22	250	210	180	55	40	90	20	4.25
Z5	M24	285	240	200	66	41	110	22	6.10

Model	Vertical rated load (Kg)	Static deformation under vertical rated load (mm)	Natural frequency under vertical rated load (Hz)
Z1	100	~3	~12
Z2	200	~5	~10
Z3	350	~7	~9
Z4	600	~8.5	~8
Z5	1000	~10	~7

Performance Features and Application Scope

1. It can be widely used in various machinery, instruments, machine tools, equipment, power machines, etc;
2. It can be considered to have an equal three-dimensional stiffness (also three-dimensional equal frequency);
3. The bowl type upper cover is used to protect the rubber from sunshine and oil, thus increasing the service life of the rubber;
4. Compact structure, light weight and even appearance make it very convenient to install and use;
5. It can be used in series in pairs, with reduced cost, vertical stiffness, and good usability for high vibration isolation efficiency and low-frequency interference source requirements;
6. This product is featured by large deformation. It is not allowed to be higher than 20% of the rated load when it is overloaded.

EKDA-E Type Rubber Shock Absorber



Performance Features

1. Rubber and iron parts have strong adhesion after special treatment;
2. It can effectively bear the load and deformation at all levels, and absorb shocks at multiple directions;
3. It is made of natural rubber, with firm structure and good weather resistance. The rubber hardness is 40 and 60, and other hardness and dimensions can be customized;
4. It is simple to be installed, applicable to mechanical equipment with various installation methods;
5. It can effectively eliminate all kinds of rotary or reciprocating impact vibration.

Applicable Equipment

1. Wind turbine generator, water pump, fan, air conditioning box, generator, air compressor and vibrator;
2. All on-board equipment including on-board electronic equipment, on-board generator, on-board transformer, etc.;
3. All ship borne equipment including ship borne control cabinet, ship borne compressor, ship borne transformer, ship borne water pump, etc.

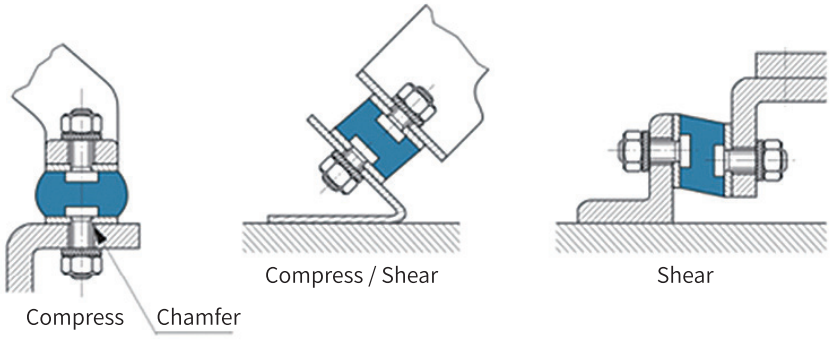
EKDA-E Type Rubber Shock Absorber

Model	Product Size (mm)					Optimum Bearing KG		Deformation (mm)
						Rubber Hardness		
	A	B	C	G	H	40	60	
EKD0808	8	8	M3	6/10	2.5	4	8	1.5
EKD1010	10	10	M3/M4	6/10	2.5	5	10	2
EKD1015	10	15	M3/M4	6/10	2.5	5	10	3
EKD1510	15	10	M4/M5	10/12/15	2.5	10	18	2
EKD1515	15	15	M4/M5	10/12/15	2.5	10	18	3
EKD1520	15	20	M4/M5	10/12/15	2.5	10	18	4
EKD1530	15	30	M4/M5	10/12/15	2.5	10	18	5
EKD2008	20	8	M6	8/10/16	3.5	22	35	1.5
EKD2010	20	10	M6	8/10/16	3.5	20	35	1.5
EKD2015	20	15	M6	8/10/16	5	15	30	4
EKD2020	20	20	M6	8/10/16	5	13	25	5
EKD2025	20	25	M6	8/10/16	5	13	20	5.5
EKD2030	20	30	M6	8/10/16	5	10	20	7
EKD2515	25	15	M6/M8	10/15/23	5/10	21	41	3.5
EKD2520	25	20	M6/M8	10/15/23	5/10	17	33	5
EKD2525	25	25	M6/M8	10/15/23	5/10	17	33	6
EKD2530	25	30	M6/M8	10/15/23	5/10	17	33	8
EKD3015	30	15	M8	16/20/23	5/10	28	50	3.5
EKD3020	30	20	M8	16/20/23	5/10	28	50	5
EKD3025	30	25	M8	16/20/23	5/10	28	40	6
EKD3030	30	30	M8	16/20/23	5/10	22	40	8
EKD3040	30	40	M8	16/20/23	5/10	22	40	9
EKD4020	40	20	M8/M10	23/27	5.5/11	38	72	5
EKD4025	40	25	M8/M10	23/27	5.5/11	38	60	6
EKD4030	40	30	M8/M10	23/27	5.5/11	32	48	8
EKD4040	40	40	M8/M10	23/27	5.5/11	32	40	10
EKD5025	50	25	M10/M12	23/27/32	11/12	26	85	6
EKD5030	50	30	M10/M12	23/27/32	11/12	45	85	7
EKD5035	50	35	M10/M12	23/27/32	11/12	45	70	8
EKD5040	50	40	M10/M12	23/27/32	11/12	38	70	9
EKD5045	50	45	M10/M12	23/27/32	11/12	38	56	11
EKD5050	50	50	M10/M12	23/27/32	11/12	30	56	12
EKD6030	60	30	M10/M12	27/32/37	11/12	72	132	7
EKD6035	60	35	M10/M12	27/32/37	11/12	72	132	8
EKD6040	60	40	M10/M12	27/32/37	11/12	72	132	9

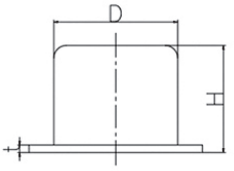
EKDA-E Type Rubber Shock Absorber

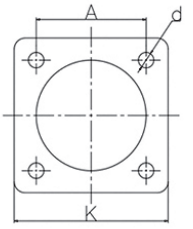
Model	Product Size (mm)					Optimum Bearing KG		Deformation (mm)
						Rubber Hardness		
	A	B	C	G	H	40	60	
EKD6045	60	45	M10/M12	27/32/37	11/12	60	110	11
EKD6050	60	50	M10/M12	27/32/37	11/12	60	110	12
EKD6060	60	60	M10/M12	27/32/37	11/12	60	110	13
EKD7030	70	30	M12/M16	37/42	12/18	160	280	8
EKD7040	70	40	M12/M16	37/42	12/18	160	280	10
EKD7050	70	50	M12/M16	37/42	12/18	135	240	12
EKD7055	70	55	M12/M16	37/42	12/18	110	240	13
EKD7065	70	65	M12/M16	37/42	12/18	110	200	14
EKD7540	75	40	M12/M16	37/42	12/18	175	315	10
EKD7545	75	45	M12/M16	37/42	12/18	175	315	11
EKD7550	75	50	M12/M16	37/42	12/18	160	270	12
EKD7555	75	55	M12/M16	37/42	12/18	150	270	13
EKD8040	80	40	M12/M16	42/47	12/18	235	370	10
EKD8050	80	50	M12/M16	42/47	12/18	205	325	11
EKD8060	80	60	M12/M16	42/47	12/18	175	280	15
EKD8080	80	80	M12/M16	42/47	12/18	150	280	19
EKD10040	100	40	M16	42/47	18	390	560	7
EKD10045	100	45	M16	42/47	18	310	560	8
EKD10050	100	50	M16	42/47	18	310	560	9
EKD10055	100	55	M16	42/47	18	270	490	10
EKD10060	100	60	M16	42/47	18	270	490	11
EKD10075	100	75	M16	42/47	18	230	420	17
EKD100100	100	100	M16	42/47	18	230	420	20
EKD15075	150	75	M16/M20	42/47	18/21	750	1400	17

Installation Method



EKDN-type Shock Absorber





Model	Product Size (mm)						Limit Load (N)
	K	A	D	d	H	t	
EKDN50	70	50	50	7	43	3	8000
EKDN75	100	75	75	9	63	3	20000
EKDN100	130	100	100	11	84	4	41000
EKDN150	185	150	150	13.5	126	6	90000
EKDN200	240	200	200	13.5	168	8	180000

Performance Features

1.It can effectively bear the load and deformation at all levels, and absorb shocks at multiple directions;

2. It is simple to be installed, applicable to mechanical equipment with various installation methods;

3. It can effectively eliminate all kinds of rotary or reciprocating impact vibration.

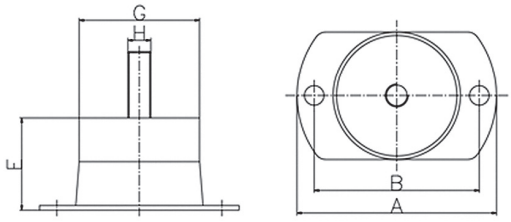
Applicable Equipment

1. Wind turbine generator, water pump, fan, air conditioning box, generator, air compressor and vibrator;

2. All on-board equipment including on-board electronic equipment, on-board generator, on-board transformer, etc.;

3. All ship borne equipment including ship borne control cabinet, ship borne compressor, ship borne transformer, ship borne water pump, etc.

EKDL-Type Rubber Shock Absorber



Model	Product Size (mm)					Rubber Hardness	Elastic Coefficient	Optimum Bearing	Optimum Compression
	A	B	E	G	H				
EKDL80	147	120	50	70	M12	40	60	325	5
						60	83	413	5
						70	103	515	5
EKDL88	140	112	50	88	M12	40	55	440	8
						60	90	720	8
						70	130	1040	8
EKDL100	174	144	80	100	M20	40	50	600	12
						60	90	1080	12
						70	145	1740	12
EKDL124	215	177	64	124	M20	40	85	850	10
						60	140	1400	10
						70	220	2200	10
EKDL152	232	190	80	152	M20	40	105	1260	12
						60	200	2400	12
						70	320	3840	12

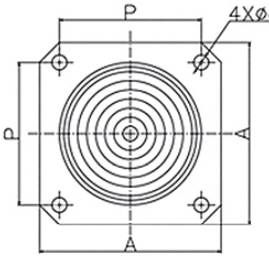
Performance Features

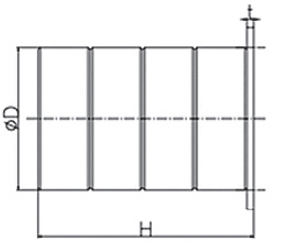
1. The design of upper and lower steel plates makes the shock absorber bear uniform force with strong stability and good shock absorption;
2. It can effectively bear the load and deformation at all levels, and absorb shocks at multiple directions;
3. It is made of natural rubber with firm structure, good weather resistance and long service life;
4. It is simple to be installed, applicable to mechanical equipment with various installation methods;
5. It can effectively eliminate all kinds of rotary or reciprocating impact vibration.

Applicable Equipment

1. Fan, water pump, air conditioning box, generator, transformer, air compressor and vibrator;
2. All on-board equipment including on-board electronic equipment, on-board generator, on-board transformer, etc.;
3. All ship borne equipment including ship borne control cabinet, ship borne compressor, ship borne transformer, ship borne water pump, etc.

EKDX-Type Polyurethane Buffer





Model	Damping Constant	Product Size (mm)						Volume cm^3	Compression Area cm^2
		D	A	P	t	d1	H		
EKDX80	-1	80	100	80	4.5	9	54	246	50
	-2						99	470	
EKDX100	-1	100	135	100	4.5	11	64	460	80
	-2						114	850	
EKDX125	-1	125	160	125	6	13	71	790	120
	-2						131	1510	
	-3						191	2250	
EKDX160	-1	160	200	160	10	17	85	1480	200
	-2						160	2970	
	-3						235	4460	
EKDX200	-1	200	250	200	12	22	87	2300	310
	-2						162	4600	
	-3						237	6950	
	-4						312	9280	
EKDX250	-1	250	315	250	16	22	91	3580	490
	-2						166	7220	
	-3						241	10600	
	-4						316	14500	
	-5						391	18400	
EKDX315	-1	315	400	315	16	22	91	5630	780
	-2						166	11400	
	-3						241	17200	
	-4						316	22900	
	-5						391	28600	
	-6						466	34300	

Model	Damping Constant	Product Size (mm)						Volume cm^3	Compression Area cm^2
		D	A	P	t	d1	H		
EKDX400	-1	400	500	400	22	26	97	8970	1260
	-2						172	18300	
	-3						247	27500	
	-4						322	36700	
	-5						397	46000	
	-6						472	55200	
	-7						547	64500	
	-8						622	73800	
EKDX500	-1	500	630	500	25	26	100	14000	1960
	-2						175	28500	
	-3						250	43000	
	-4						325	57500	
	-5						400	72000	
	-6						475	86500	
	-7						550	101000	
	-8						625	115400	
	-9						700	130000	
	-10						775	144600	
EKDX600	-1	600	730	600	28	26	103	20000	2830
	-2						178	41000	
	-3						253	62000	
	-4						328	83000	
	-5						403	104000	
	-6						478	125000	
	-7						553	146000	
	-8						628	167000	
	-9						703	188000	
	-10						778	209000	
	-11						853	230000	
	-12						928	251000	

Performance Features

1. The large stroke of the bubble structure can absorb the collision energy and reduce the impact force;
2. When compressing polyurethane, the ejection to the side is the smallest because the internal bubbles are compressed. (The outer diameter increases by about 30% when compressed by 75%)

Jiangsu Liquid Damper Machinery Technology Co.,Ltd

No.209 Chengnan Road, Xinwu District, Wuxi, Jiangsu, China

Tel：+86 510 82801575
Fax：+86 510 82801575
Email：Office@ekdchina.com

www.ekdchina.com