



# SKG Vibration, Shock and Motion Control Products Catalog

-For Industrial Applications

# SKG 振动、冲击和运动控制产品目录

-工业应用领域

ver. 2024.04





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## GENERAL INFORMATION

### How to Use this Catalog

Vibration, shock, motion and noise control problems are a fact of life in the design and operation of many types of equipment today. SKG can help you solve such problems with a wide range of control products for applications that include electric motors; fans and blowers; vibratory conveyors and other material handling equipment; pumps, compressors, and refrigeration units; measuring instruments; construction and agricultural equipment; electronic devices; and punch presses, lathes, and other industrial equipment.

### *Custom-Engineered Solutions*

SKG offers standardized products to meet most applications, but some control problems require specialized solutions such as a custom-designed mount or a combination of SKG products. SKG's vibration and noise control experts can analyze your individual requirements and provide the most effective and affordable product solutions.

## 概要说明

### 如何使用本产品目录

如今，在设计和使用各种类型的设备时，振动、冲击、运动和噪声的控制问题不可避免。魁固公司提供多种工业设备振动控制产品，助您解决这一系列问题，包括：电动机；风扇和鼓风机；振动输送机和其他物料搬运设备；泵、压缩机和制冷机组；测量仪器；工程和农业设备；电子设备；冲床、车床以及其他工业设备等。

### *定制解决方案*

魁固提供的标准化产品可满足大多数应用的要求，但某些控制问题需要针对性的解决方案，例如定制化设计的减振产品或魁固产品组合。魁固的振动控制和噪声控制专家可对您的具体需求进行分析，并提供最为高效且经济的解决方案及产品。

# ENGINEERING GUIDE

## Application Selection Guide

	Cabs	Conveyors	Engines	Engine Gen/Pump Sets	Fans/Blowers	Heating/Cooling Units	Machinery – Punch, Printing, Milling, Presses	Electric Motors	Pumps/Compressors	Shakers/Vibrators	Vehicle Accessories	Shipping Containers
Conical Mounts	•		•	•	•			•	•		•	
Two-Piece Mounts A01 Series	•		•	•	•	•	•	•	•	•	•	
Sandwich Mounts Large Sandwich Mounts		•			•	•	•	•	•	•		•

# 工程指南

## 应用选型指南

	驾驶室	输送机	发动机	发动机发电机组/泵组	风扇/鼓风机	加热/冷却装置	机床设备-冲孔、印刷、铣削 冲压	电机	泵/压缩机	振动筛/振动器	车辆配件	运输集装箱
锥形减振垫	•		•	•	•			•	•		•	
双片式减振垫 A01 系列	•		•	•	•	•	•	•	•	•	•	
三明治减振垫 大型三明治减振		•			•	•	•	•	•	•		•

## SANDWICH MOUNTS

### Sandwich Mounts

**Featuring:** Large Sandwich Mounts

SKG Sandwich Mounts are designed to protect equipment and machinery against damaging vibration. This family of mounts has excellent capacity for energy control. Constructed with high-strength bonds and specially compounded elastomers, these mounts provide high load-carrying capacity and assure long life.

The simple design and unitized construction provide low-cost mounting systems which are compact, lightweight, easy to install and maintenance-free.

These mounts are available in several size groups to suit a variety of applications.

Typical applications for Sandwich Mounts include business machines; motorcycles; heating, ventilating and air conditioning equipment; light motors; appliances; shipping containers; feeders; compactors; and vibratory rollers.

#### **Features and Benefits**

- Economical
- Compact and lightweight
- Easy to install
- Maintenance-free
- Variety sizes, customized development
- Unitized construction



# SANDWICH MOUNTS

## Large Sandwich Mounts

Table 1 – Specifications and Dimensions

Part Number	Type	Elastomer ①	Shear				Part Dimensions									
			Maximum Static Load		Spring Rate K <sub>s</sub>		A OD		B Thickness		C Hole distance		D Screw/Hole dimension		E Screw/Hole dimension	
			lb	N	lb/in	N/mm	in	mm	in	mm	in	mm	in	mm	in	mm
R0201-200	B	NR	1124	5000	1143	200	7.72	196	3.47	95	6.30	160	0.51	13	/	/
R0201-240	B	NR	1349	6000	1371	240	7.72	196	3.47	95	6.30	160	0.51	13	/	/
R0201-280	B	NR	1574	7000	1600	280	7.72	196	3.47	95	6.30	160	0.51	13	/	/
R0201-320	B	NR	1798	8000	1829	320	7.72	196	3.47	95	6.30	160	0.51	13	/	/
R0201-380	B	NR	2136	9500	2171	380	7.72	196	3.47	95	6.30	160	0.51	13	/	/
R0202-280	D	NR	1574	7000	1600	280	6.69	170	3.54	90	8.07	205	0.55	14	/	M20*2.5
R0203-200	C	NR	1124	5000	1143	200	6.50	165	4.02	102	/	/	/	M20*2.5	/	M20*2.5
R0203-230	C	NR	1293	5750	1314	230	6.50	165	4.02	102	/	/	/	M20*2.5	/	M20*2.5
R0204-170	B	NR	899	4000	914	170	7.05	179	4.02	102	5.75	146	0.51	13	/	/
R0204-200	B	NR	1124	5000	1143	200	7.05	179	4.02	102	5.75	146	0.51	13	/	/
R0204-245	B	NR	1371	6100	1400	245	7.05	179	4.02	102	5.75	146	0.51	13	/	/
R0205-215	D	NR	967	4300	1229	215	6.50	165	2.99	76	7.09	180	0.51	13	/	M12*2
R0205-265	D	NR	1191	5300	1463	256	6.50	165	2.99	76	7.09	180	0.51	13	/	M12*2
R0206-180	A	NR	809	3600	1029	180	6.30	160	2.95	75	/	/	/	M20*2.5	/	M20*2.5
R0206-230	A	NR	1034	4600	1314	230	6.30	160	2.95	75	/	/	/	M20*2.5	/	M20*2.5
R0207-200	E	NR	1124	5000	1143	200	7.68	195	3.78	96	9.45	240	0.71	18	/	/
R0207-240	E	NR	1349	6000	1371	240	7.68	195	3.78	96	9.45	240	0.71	18	/	/
R0207-280	E	NR	1574	7000	1600	280	7.68	195	3.78	96	9.45	240	0.71	18	/	/
R0209-120	A	NR	337	1500	686	120	4.13	105	2.17	55	/	/	/	M16*2	/	M16*2

① NR = Natural Rubber

SANDWICH MOUNTS

Figure 1 – Part Dimension – Type A

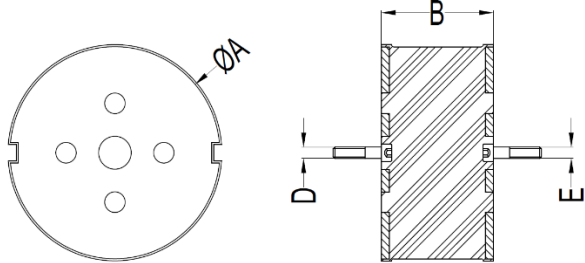


Figure 2 – Part Dimension – Type B

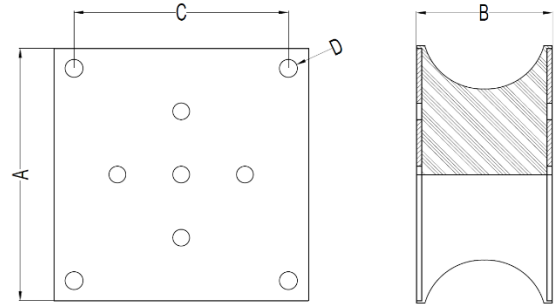


Figure 3 – Part Dimension – Type C

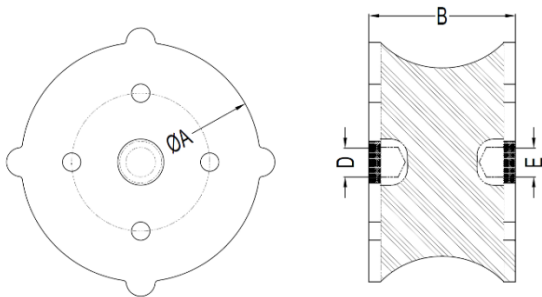


Figure 4 – Part Dimension – Type D

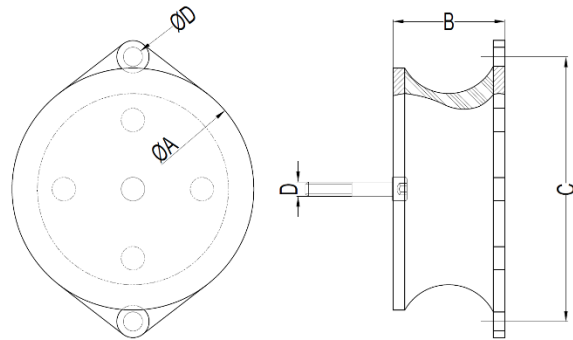
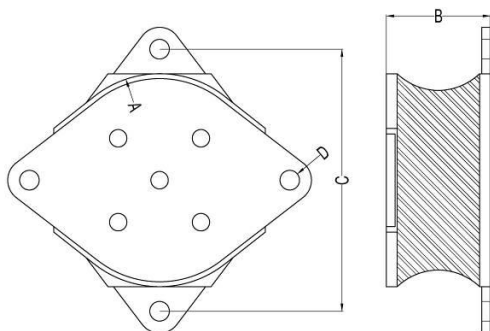


Figure 5 – Part Dimension – Type E





## 三明治减振垫

### 三明治减振垫

**特点：**大型三明治减振垫

SKG 三明治减振垫具有优异的能量控制能力，从而保护机械、设备免受破坏性的振动。

三明治减振垫采用高强度粘结和专用弹性体制成，承载能力强，且使用寿命长。

简洁的设计以及整体式的结构降低了系统的成本，确保系统结构更加紧凑、轻便、易于安装且免维护。

此种减振垫有多种尺寸规格，适合各种应用。

其典型应用包括：商业机械、摩托车、供暖、通风和空调（HVAC）设备、轻型电机、电器、海运集装箱、进料器、压实机和振动压路机。

#### 特征和优点

- 经济性
- 紧凑轻便
- 易于安装
- 免维护
- 有多种尺寸可选，可定制开发
- 整体式结构



# 三明治减振垫

## 大型三明治减振垫

表 1 - 技术规格和尺寸

零件号码	类型	弹性材料 ①	剪切				零件尺寸									
			最大静态 载荷		刚度 K <sub>s</sub>		A 外径或边长		B 厚度		C 孔距		D 螺栓/孔 规格尺寸		E 螺栓/孔 规格尺寸	
			lb	N	lb/in	N/mm	in	mm	in	mm	in	mm	in	mm	in	mm
R0201-200	B	NR	1124	5000	1143	200	7.72	196	3.47	95	6.30	160	0.51	13	/	/
R0201-240	B	NR	1349	6000	1371	240	7.72	196	3.47	95	6.30	160	0.51	13	/	/
R0201-280	B	NR	1574	7000	1600	280	7.72	196	3.47	95	6.30	160	0.51	13	/	/
R0201-320	B	NR	1798	8000	1829	320	7.72	196	3.47	95	6.30	160	0.51	13	/	/
R0201-380	B	NR	2136	9500	2171	380	7.72	196	3.47	95	6.30	160	0.51	13	/	/
R0202-280	D	NR	1574	7000	1600	280	6.69	170	3.54	90	8.07	205	0.55	14	/	M20*2.5
R0203-200	C	NR	1124	5000	1143	200	6.50	165	4.02	102	/	/	/	M20*2.5	/	M20*2.5
R0203-230	C	NR	1293	5750	1314	230	6.50	165	4.02	102	/	/	/	M20*2.5	/	M20*2.5
R0204-170	B	NR	899	4000	914	170	7.05	179	4.02	102	5.75	146	0.51	13	/	/
R0204-200	B	NR	1124	5000	1143	200	7.05	179	4.02	102	5.75	146	0.51	13	/	/
R0204-245	B	NR	1371	6100	1400	245	7.05	179	4.02	102	5.75	146	0.51	13	/	/
R0205-215	D	NR	967	4300	1229	215	6.50	165	2.99	76	7.09	180	0.51	13	/	M12*2
R0205-265	D	NR	1191	5300	1463	256	6.50	165	2.99	76	7.09	180	0.51	13	/	M12*2
R0206-180	A	NR	809	3600	1029	180	6.30	160	2.95	75	/	/	/	M20*2.5	/	M20*2.5
R0206-230	A	NR	1034	4600	1314	230	6.30	160	2.95	75	/	/	/	M20*2.5	/	M20*2.5
R0207-200	E	NR	1124	5000	1143	200	7.68	195	3.78	96	9.45	240	0.71	18	/	/
R0207-240	E	NR	1349	6000	1371	240	7.68	195	3.78	96	9.45	240	0.71	18	/	/
R0207-280	E	NR	1574	7000	1600	280	7.68	195	3.78	96	9.45	240	0.71	18	/	/
R0208-120	A	NR	337	1500	686	120	4.13	105	2.17	55	/	/	/	M16*2	/	M16*2

① NR =天然橡胶

三明治减振垫

图1 - 零件尺寸 - 类型A

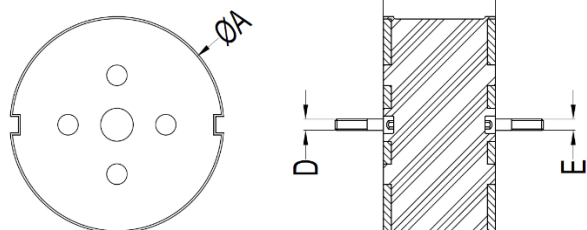


图2 - 零件尺寸 - 类型B

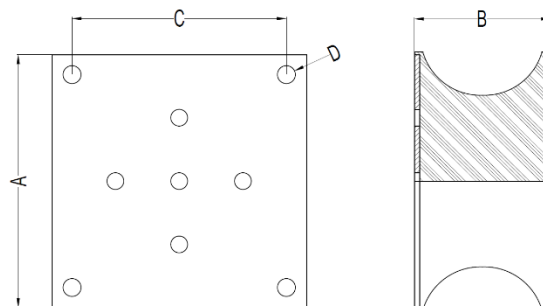


图3 - 零件尺寸 - 类型C

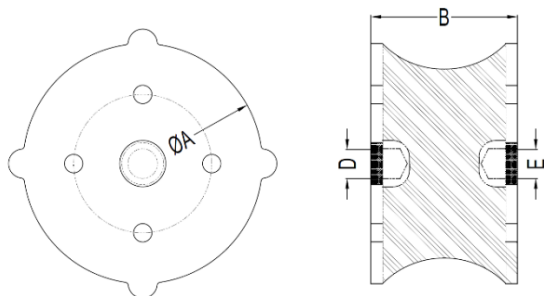


图4 - 零件尺寸 - 类型D

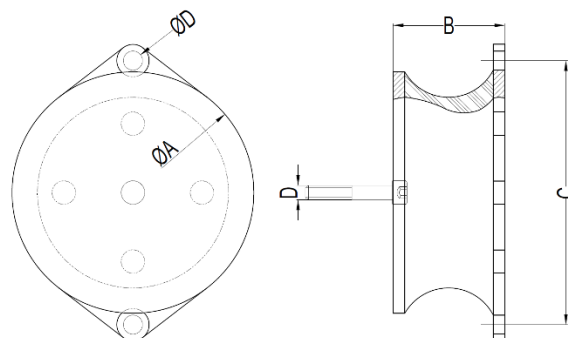
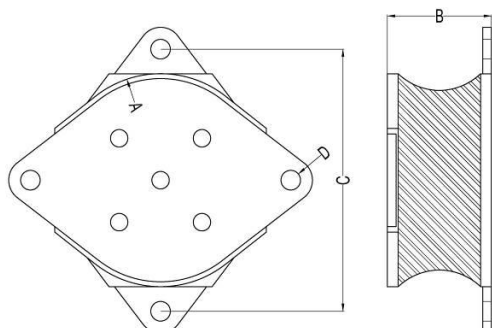


图5 - 零件尺寸 - 类型E



# CONICOL MOUNTS

## Conical Mounts

SKG Conical mounts provide effective vibration isolation and noise attenuation with a simple, robust mount design. Consistent performance, high load bearing capabilities and a choice of radial stiffness characteristics are key features of these mounts.

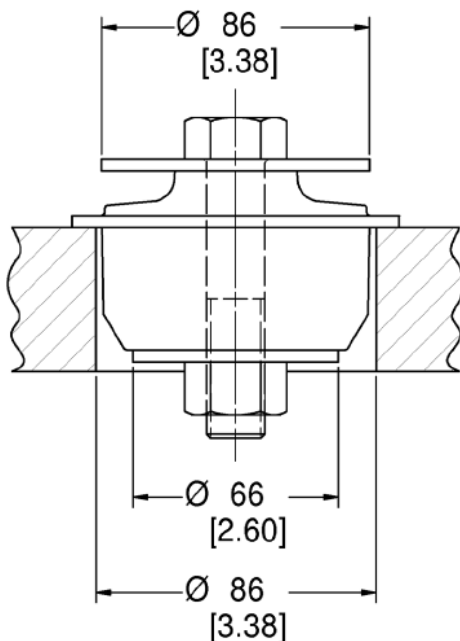
Conical Mounts are appropriate for both on-road and off-road vehicles. Applications include cab mounts and engine and transmission mounts for trucks and buses, and construction and agricultural vehicles.

### Features and Benefits

- Provide strong, dependable performance
- Have a typical static deflection of 5 mm
- Offer a choice of radial stiffnesses
- Can be snubbed
- Can be safetied with the use of snubbing washers
- Withstand R.O.P.S. loads with the addition of support rings
- Are easily installed
- Exhibit long, highly reliable service life



Figure 1



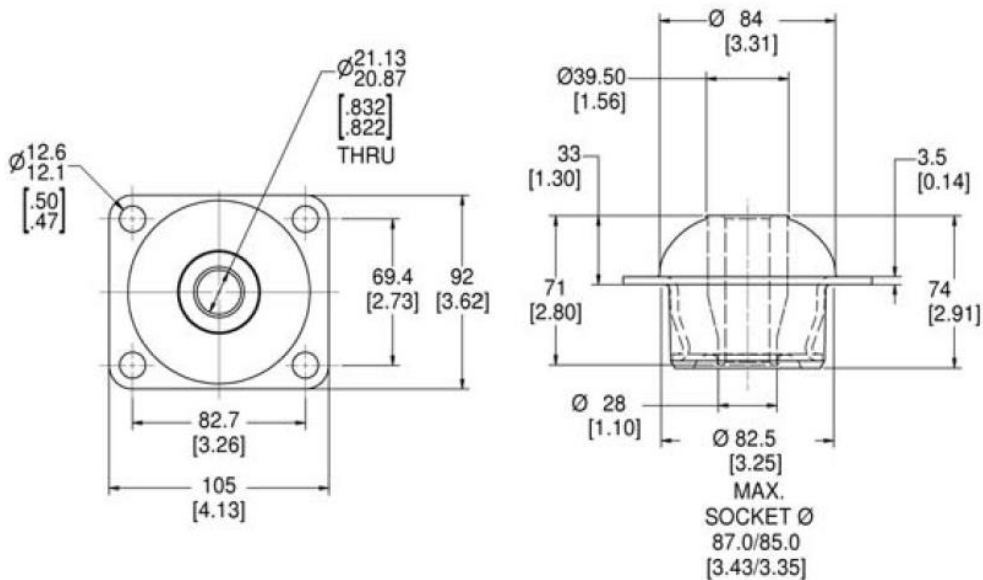
# CONICOL MOUNTS

## Specifications and Dimensions

Part Number	Durometer Shore A	Rated Axial Static Load kN (lb)	Rated Axial Static Deflection kN (lb)	Axial Static Stiffness N/mm (lb/in)	Axial Dynamic Stiffness <sup>①</sup> N/mm (lb/in)	Radial R1 Static Stiffness N/mm (lb/in)	Radial R2 Static Stiffness N/mm (lb/in)	Recommended Bolt Information*			
								Size		Grade or Class	
								English	Metric	SAE J429	SAE J1199
R0501-210	35	1.67 (375)	5.0 (0.20)	210 (1200)	215 (1230)	800 (4570)	800 (4570)	3/4	M20	**	**
R0501-310	40	2.4 (540)	5.0 (0.20)	310 (1770)	340 (1945)	1200 (6855)	1200 (6855)	3/4	M20	**	**
R0501-400	45	2.7 (607)	5.0 (0.20)	400 (2285)	470 (2690)	1600 (9140)	1600 (9140)	3/4	M20	**	**
R0501-500	50	3.9 (880)	5.0 (0.20)	500 (2860)	600 (3430)	2000 (11420)	2000 (11420)	3/4	M20	**	**
R0501-590	55	4.6 (1040)	5.0 (0.20)	590 (3370)	725 (4140)	2400 (13700)	2400 (13700)	3/4	M20	**	**
R0501-690	60	5.3 (1200)	5.0 (0.20)	690 (3950)	850 (4855)	2800 (16000)	2800 (16000)	3/4	M20	**	**

\* For tightening torque information, refer to Tightening Torque Charts section.    ① Data at Axial Rated Static Load, with input +0.3 mm (0.01 in) at 5.0 Hz.

\*\* Tightening torque 3/4 bolt = 320 lb-ft; M20 bolt = 430 N-m dry.



## 锥型减振垫

### 锥型减振垫

魁固锥型减振垫采用简单、可靠的设计，提供有效的振动隔离和降噪功能，同时具备高稳定性、高载荷承受能力以及径向刚性可选的特性。

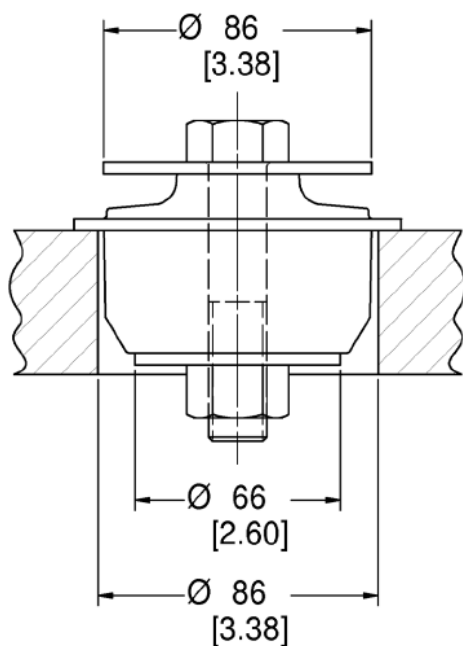
锥型减振垫适用于公路车辆和非公路车辆。锥型减振垫可做为商用车、公共汽车、工程及农业车辆的驾驶室、发动机以及变速箱的悬置。

#### 特征和优点

- 具有优异、可靠的性能
- 典型静态变形为5mm
- 径向刚性可选
- 可有限位功能
- 可采用限位垫圈，防止失效，保证安全
- 增加支撑环，可承受R.O.P.S载荷
- 易于安装
- 使用寿命长、可靠性高



图 1



# 锥型减振垫

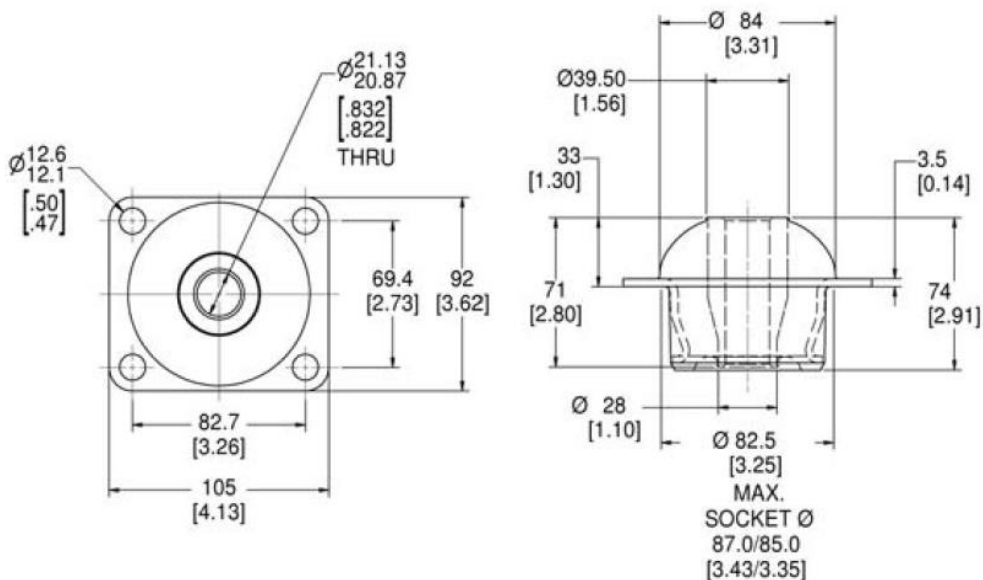
## 技术规格与尺寸

零件号码	肖氏硬度A	轴向静态额定载荷 kN (lb)	轴向静态额定变形 kN (lb)	轴向静刚度 N/mm (lb/in)	轴向动刚度① N/mm (lb/in)	径向R1静刚度 N/mm (lb/in)	径向R2静刚度 N/mm (lb/in)	建议螺栓信息*			
								尺寸		等级或类别	
								英制	公制	SAE J429	SAE J1199
R0501-210	35	1.67 (375)	5.0 (0.20)	210 (1200)	215 (1230)	800 (4570)	800 (4570)	3/4	M20	**	**
R0501-310	40	2.4 (540)	5.0 (0.20)	310 (1770)	340 (1945)	1200 (6855)	1200 (6855)	3/4	M20	**	**
R0501-400	45	2.7 (607)	5.0 (0.20)	400 (2285)	470 (2690)	1600 (9140)	1600 (9140)	3/4	M20	**	**
R0501-500	50	3.9 (880)	5.0 (0.20)	500 (2860)	600 (3430)	2000 (11420)	2000 (11420)	3/4	M20	**	**
R0501-590	55	4.6 (1040)	5.0 (0.20)	590 (3370)	725 (4140)	2400 (13700)	2400 (13700)	3/4	M20	**	**
R0501-690	60	5.3 (1200)	5.0 (0.20)	690 (3950)	850 (4855)	2800 (16000)	2800 (16000)	3/4	M20	**	**

\*有关紧固扭矩的信息，请参阅“螺栓紧固扭矩表”部分。

① 轴向静态额定载荷，振幅±0.3mm (0.01英寸) 频率5 Hz时的数据。

\*\* 3/4 螺栓的紧固扭矩=320 lb-ft; M20 bolt = 430 N-m 干态。



## TWO-PIECE MOUNTS

### Two-Piece Mounts

**Featuring:** A01 Series

SKG Two-Piece Mounts are designed for applications involving severe dynamic forces in the static load direction, as well as the rebound direction. Travel is limited in both directions by rubber in compression which provides snubbing.

These mounts are designed to support engines, cabs and accessory units, and accommodate frame racking and twisting while isolating vibration and absorbing shock.

Typical applications for Two-Piece Mounts include on-highway, off-highway vehicles, construction and industrial machines.

#### **Features and Benefits**

- Dynamically effective in all directions
- Prevent mechanical transmission of noise
- Accommodate misalignment and distortion
- High rebound capacity
- Easy to install with common tools
- Standard bolt torque assures proper assembly
- Top and bottom parts alike, cannot be misassembled
- Fail-safe assembly
- Sized for English and Metric bolts
- Long dependable service life
- Economical





# TWO-PIECE MOUNTS

## A01 Series

**Table 1 – Specifications and Dimensions**

Part Number ①	Elastomer ②	Maximum Axial Load at Deflection Based on Plate Thickness							
		T - Thick Support Plate (Recommended)				T - Thin Support Plate (Optional)			
		Thickness - T		Load/Deflection ③		Thickness - T		Load/Deflection ③	
		in	mm	lb at in	N at mm	in	mm	lb at in	N at mm
A0101-190	NR	0.375	9.5	40 at 0.05	178 at 1.3	/	/	/	/
A0101-300	NR	0.375	9.5	90 at 0.05	400 at 1.3	/	/	/	/
A0101-400	NR	0.375	9.5	140 at 0.05	623 at 1.3	/	/	/	/
A0101-500	NR	0.375	9.5	250 at 0.05	1112 at 1.3	/	/	/	/
A0101-630	NR	0.375	9.5	300 at 0.05	1334 at 1.3	/	/	/	/
A0102-240	NR	0.563	14.3	130 at 0.07	578 at 1.8	0.500	12.7	60 at 0.05	267 at 1.3
A0102-360	NR	0.563	14.3	175 at 0.07	778 at 1.8	0.500	12.7	120 at 0.05	534 at 1.3
A0102-470	NR	0.563	14.3	240 at 0.07	1068 at 1.8	0.500	12.7	160 at 0.05	712 at 1.3
A0102-630	NR	0.563	14.3	380 at 0.07	1690 at 1.8	0.500	12.7	260 at 0.05	1157 at 1.3
A0102-730	NR	0.563	14.3	630 at 0.07	2802 at 1.8	0.500	12.7	380 at 0.05	1690 at 1.3
A0103-360	NR	0.875	22.2	175 at 0.085	780 at 2.2	0.750	19.1	100 at 0.05	440 at 1.3
A0103-650	NR	0.875	22.2	300 at 0.085	1330 at 2.2	0.750	19.1	150 at 0.05	670 at 1.3
A0103-830	NR	0.875	22.2	400 at 0.085	1780 at 2.2	0.750	19.1	225 at 0.05	1000 at 1.3
A0103-1000	NR	0.875	22.2	500 at 0.085	2220 at 2.2	0.750	19.1	325 at 0.05	1450 at 1.3
A0103-1700	NR	0.875	22.2	725 at 0.085	3220 at 2.2	0.750	19.1	450 at 0.05	2000 at 1.3
A0104-780	NR	1.125	28.6	400 at 0.09	1780 at 2.3	1.000	25.4	200 at 0.05	890 at 1.3
A0104-1050	NR	1.125	28.6	550 at 0.09	2450 at 2.3	1.000	25.4	300 at 0.05	1330 at 1.3
A0104-1380	NR	1.125	28.6	700 at 0.09	3110 at 2.3	1.000	25.4	400 at 0.05	1780 at 1.3
A0104-1730	NR	1.125	28.6	850 at 0.09	3780 at 2.3	1.000	25.4	500 at 0.05	2220 at 1.3
A0104-1860	NR	1.125	28.6	1000 at 0.09	4450 at 2.3	1.000	25.4	600 at 0.05	2670 at 1.3
A0105-1500	NR	1.250	31.8	675 at 0.08	3000 at 2.0	/	/	/	/
A0105-2000	NR	1.250	31.8	900 at 0.08	4000 at 2.0	/	/	/	/
A0105-2400	NR	1.250	31.8	1080 at 0.08	4800 at 2.0	/	/	/	/
A0105-3000	NR	1.250	31.8	1350 at 0.08	6000 at 2.0	/	/	/	/
A0106-2400	NR	1.250	31.8	650 at 0.05	2880 at 1.2	/	/	/	/
A0106-3000	NR	1.250	31.8	810 at 0.05	3600 at 1.2	/	/	/	/
A0106-3750	NR	1.250	31.8	1015 at 0.05	4500 at 1.2	/	/	/	/
A0106-5600	NR	1.250	31.8	1510 at 0.05	6720 at 1.2	/	/	/	/

Mounts only supplied by SKG.

① One P/N contains one top and one bottom mount only.

② NR = Natural Rubber

③ **These loads are for on-highway and general industrial applications. For off-highway, use 90% of the load shown.**

**Caution:** When using the maximum bolt torque listed a hardened (RB95) rebound washer and support member should be used. A hardened washer may be placed under the supported member when the supported member is not hardened.

# TWO-PIECE MOUNTS

**Table 2 – Specifications**

Series Number	Recommended Bolt Information*			
	Size		Grade or Class	
	English	Metric	SAE J429	SAE J1199
A0101	3/8	M10	5	5.8
A0102	1/2	M12	8	10.9
A0103	5/8	M16	8	10.9
A0104	7/8	M20	8	10.9
A0105	1.0	M30	8	10.9
A0106	1.0	M30	8	10.9

\* For tightening torque information, refer to Tightening Torque Charts section.

**Table 3 – Specifications and Dimensions**

Series Number	Part Dimensions														H Reference				Installation Dimensions			
	A		B		C Ref.		D		E		F		G		Thick Support Plate		Thin Support Plate		SD		R Ref.	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A0101	1.31	33.3	0.402	10.2	0.58	14.7	1.25	31.8	0.79	20.1	0.485	12.3	0.60	15.2	0.44	11.2	/	/	0.75	19.1	0.04	1.0
A0102	1.88	47.8	0.532	13.5	0.83	21.1	1.94	49.3	1.30	33.0	0.78	19.8	0.835	21.2	0.69	17.5	0.72	18.3	1.25	31.8	0.06	1.5
A0103	2.55	64.8	0.657	16.7	0.97	24.6	2.43	61.7	1.58	40.1	0.90	22.9	0.97	24.8	0.78	19.8	0.84	21.3	1.50	38.1	0.09	2.3
A0104	3.46	87.9	0.948	24.1	1.45	36.8	2.88	73.0	2.30	58.4	1.00	25.4	1.48	37.6	0.88	22.4	0.94	23.9	2.25	57.2	0.12	3.0
A0105	4.88	124.0	1.063	32.0	1.78	45.1	3.38	78.0	2.55	68.5	1.25	31.8	1.49	45.0	1.00	25.4	/	/	2.50	63.5	0.12	3.0
A0106	4.88	124.0	1.063	32.0	1.78	45.1	3.38	78.0	2.55	68.5	1.25	31.8	1.49	45.0	1.00	25.4	/	/	2.50	63.5	0.12	3.0

TWO-PIECE MOUNTS

Figure 1 – Part Dimensions

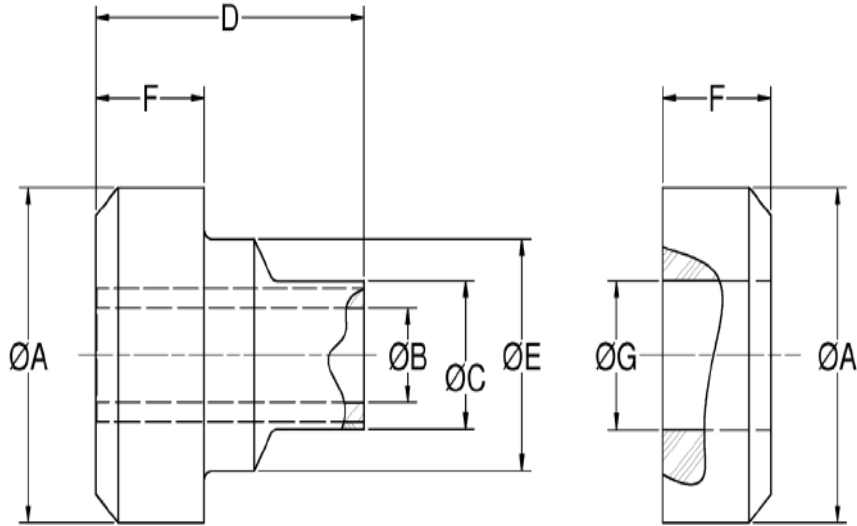
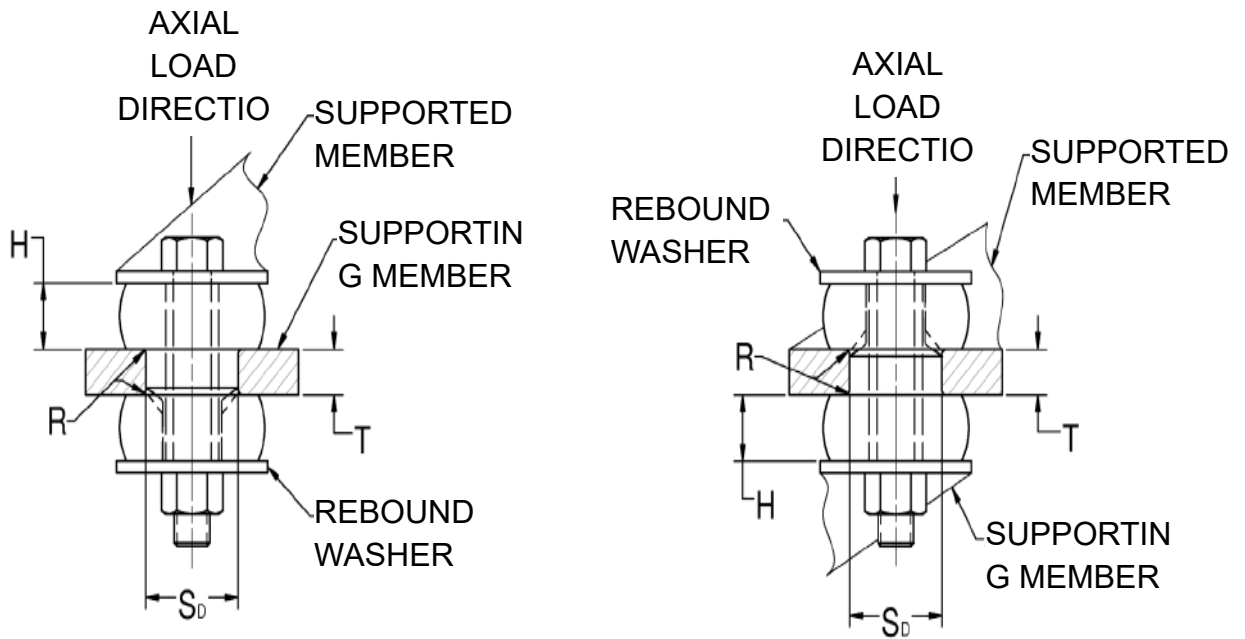


Figure 2 – Installation View (Shown Under No Load)



## 双片式减振垫

### 双片式减振垫

**特点：**A01系列

魁固双片式减振垫用于静态载荷和动态载荷都较大的场合。被压缩的弹性材料对各个方向同时提供限位和缓冲。

双片式减振垫可支撑发动机、驾驶室及其附属装置，可以包容结构框架的变形和扭曲，同时隔离振动并吸收冲击。

典型应用包括公路车辆、非公路车辆、建筑和工业机械。

### 特征和优点

- 全方位隔振
- 阻隔噪音的传递
- 允许错位和变形
- 回弹性能高
- 使用常用工具即可轻松安装
- 标准的螺栓力矩，确保正确组装
- 上下结构相同，避免错误组装。
- 失效安全装配
- 适用英制和公制螺栓
- 使用寿命长，可靠性高
- 经济



## 双片式减振垫

## A01系列

表1-技术规格和尺寸

零件号码 ①	弹性材料 ②	基于板厚的最大轴向载荷及变形							
		T-厚支撑板（推荐）				T-薄支撑板（可选）			
		厚度-T		载荷@变形③		厚度-T		载荷@变形③	
		in	mm	lb（英寸）	N（mm）	in	mm	lb（英寸）	N（mm）
A0101-190	NR	0.375	9.5	40@0.05	178@1.3	/	/	/	/
A0101-300	NR	0.375	9.5	90@0.05	400@1.3	/	/	/	/
A0101-400	NR	0.375	9.5	140@0.05	623@1.3	/	/	/	/
A0101-500	NR	0.375	9.5	250@0.05	1112@1.3	/	/	/	/
A0101-630	NR	0.375	9.5	300@0.05	1334@1.3	/	/	/	/
A0102-240	NR	0.563	14.3	130@0.07	578@1.8	0.500	12.7	60@0.05	267@1.3
A0102-360	NR	0.563	14.3	175@0.07	778@1.8	0.500	12.7	120@0.05	534@1.3
A0102-470	NR	0.563	14.3	240@0.07	1068@1.8	0.500	12.7	160@0.05	712@1.3
A0102-630	NR	0.563	14.3	380@0.07	1690@1.8	0.500	12.7	260@0.05	1157@1.3
A0102-730	NR	0.563	14.3	630@0.07	2802@1.8	0.500	12.7	380@0.05	1690@1.3
A0103-360	NR	0.875	22.2	175@0.085	780@2.2	0.750	19.1	100@0.05	440@1.3
A0103-650	NR	0.875	22.2	300@0.085	1330@2.2	0.750	19.1	150@0.05	670@1.3
A0103-830	NR	0.875	22.2	400@0.085	1780@2.2	0.750	19.1	225@0.05	1000@1.3
A0103-1000	NR	0.875	22.2	500@0.085	2220@2.2	0.750	19.1	325@0.05	1450@1.3
A0103-1700	NR	0.875	22.2	725@0.085	3220@2.2	0.750	19.1	450@0.05	2000@1.3
A0104-780	NR	1.125	28.6	400@0.09	1780@2.3	1.000	25.4	200@0.05	890@1.3
A0104-1050	NR	1.125	28.6	550@0.09	2450@2.3	1.000	25.4	300@0.05	1330@1.3
A0104-1380	NR	1.125	28.6	700@0.09	3110@2.3	1.000	25.4	400@0.05	1780@1.3
A0104-1730	NR	1.125	28.6	850@0.09	3780@2.3	1.000	25.4	500@0.05	2220@1.3
A0104-1860	NR	1.125	28.6	1000@0.09	4450@2.3	1.000	25.4	600@0.05	2670@1.3
A0105-1500	NR	1.250	31.8	675@0.08	3000@2.0	/	/	/	/
A0105-2000	NR	1.250	31.8	900@0.08	4000@2.0	/	/	/	/
A0105-2400	NR	1.250	31.8	1080@0.08	4800@2.0	/	/	/	/
A0105-3000	NR	1.250	31.8	1350@0.08	6000@2.0	/	/	/	/
A0106-2400	NR	1.250	31.8	650@0.05	2880@1.2	/	/	/	/
A0106-3000	NR	1.250	31.8	810@0.05	3600@1.2	/	/	/	/
A0106-3750	NR	1.250	31.8	1015@0.05	4500@1.2	/	/	/	/
A0106-5600	NR	1.250	31.8	1510@0.05	6720@1.2	/	/	/	/

魁固仅提供减振垫。

① 一个零件号码仅包含一个上部减振和一个下部减振。

② NR =天然橡胶

③ 这些载荷适用于公路和一般工业应用。对于非公路应用，请使用所示载荷的90%。

**注意：**当使用螺栓紧固扭矩表内最大螺栓扭矩时，应使用硬化的（RB95）回弹垫片和支撑件。当被支撑件未硬化时，可将硬化的垫片放置在被支撑构件下方。

# 双片式减振垫

表 2-规格

系列号	建议螺栓规格*			
	尺寸		等级或类别	
	英制	公制	SAE J429	SAE J1199
A0101	3/8	M10	5	5.8
A0102	1/2	M12	8	10.9
A0103	5/8	M16	8	10.9
A0104	7/8	M20	8	10.9
A0105	1.0	M30	8	10.9
A0106	1.0	M30	8	10.9

\*有关紧固扭矩的信息，请参阅“螺栓紧固扭矩表”部分。

表 3-技术规格和尺寸

系列号	零件尺寸												H参考				安装尺寸					
	A		B		C参考		D		E		F		G		厚支撑板		薄支撑板		S <sub>D</sub>		R参考	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A0101	1.31	33.3	0.402	10.2	0.58	14.7	1.25	31.8	0.79	20.1	0.485	12.3	0.60	15.2	0.44	11.2	/	/	0.75	19.1	0.04	1.0
A0102	1.88	47.8	0.532	13.5	0.83	21.1	1.94	49.3	1.30	33.0	0.78	19.8	0.835	21.2	0.69	17.5	0.72	18.3	1.25	31.8	0.06	1.5
A0103	2.55	64.8	0.657	16.7	0.97	24.6	2.43	61.7	1.58	40.1	0.90	22.9	0.97	24.8	0.78	19.8	0.84	21.3	1.50	38.1	0.09	2.3
A0104	3.46	87.9	0.948	24.1	1.45	36.8	2.88	73.0	2.30	58.4	1.00	25.4	1.48	37.6	0.88	22.4	0.94	23.9	2.25	57.2	0.12	3.0
A0105	4.88	124.0	1.063	27.0	1.50	38.1	3.38	85.9	2.55	64.8	1.25	31.8	1.49	37.8	1.06	26.9	/	/	2.50	63.5	0.12	3.0
A0106	4.88	124.0	1.063	27.0	1.50	38.1	3.38	85.9	2.55	64.8	1.25	31.8	1.49	37.8	1.06	26.9	/	/	2.50	63.5	0.12	3.0

# 双片式减振垫

图1 - 零件尺寸

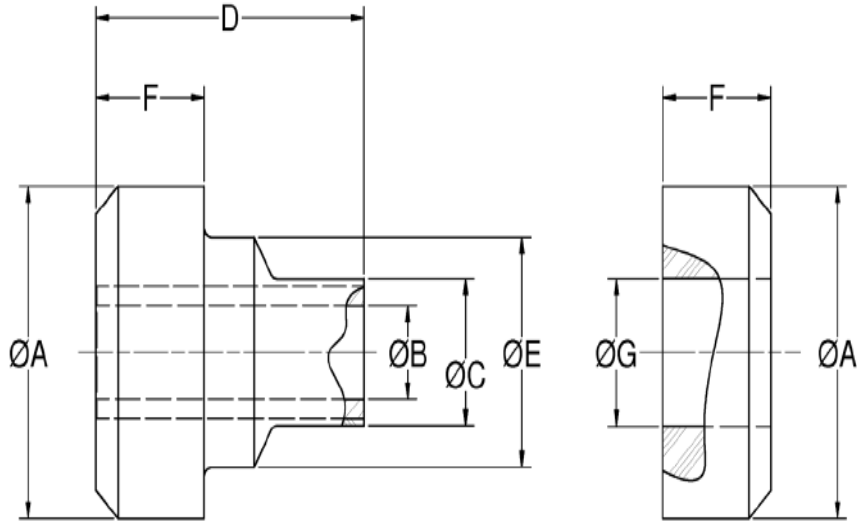
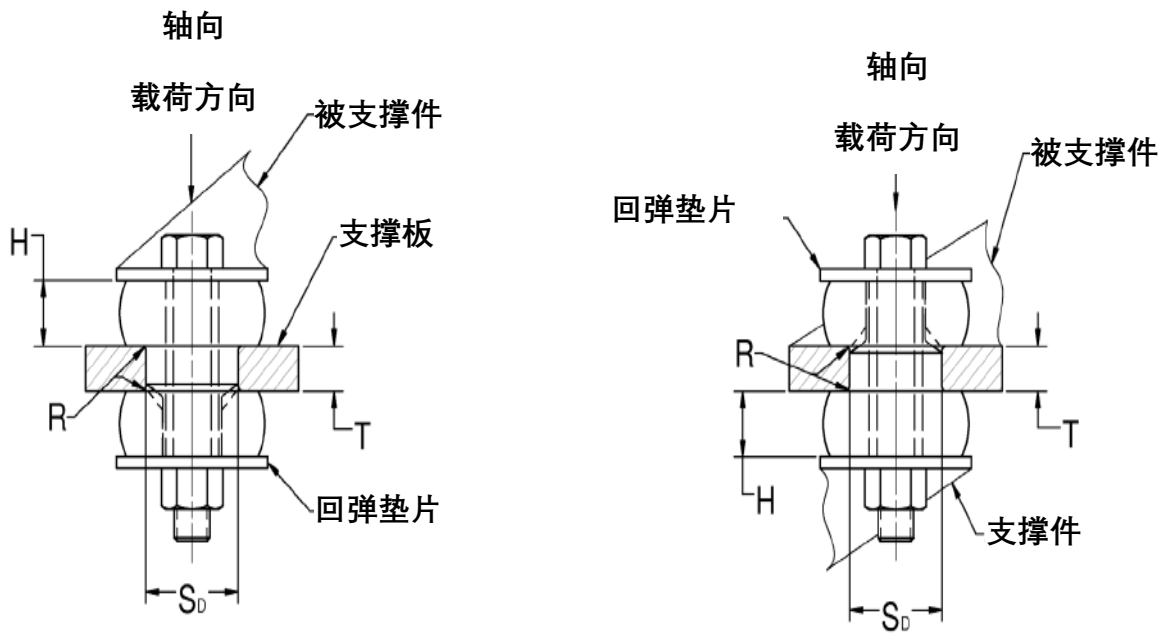


图2 - 安装视图 (无载荷状态)



# TIGHTENING TORQUE

## English Units – Coarse Thread Series

Thread Size & Pitch	GRADE 1		GRADE 2		GRADES 5, 5.1 & 5.2		GRADES 8, 8.1 & 8.2	
	Clamp Load (lb)	Tightening Torque (ft-lb)	Clamp Load (lb)	Tightening Torque (ft-lb)	Clamp Load (lb)	Tightening Torque (ft-lb)	Clamp Load (lb)	Tightening Torque (ft-lb)
6 - 32	225	0.52	375	0.86	579	1.33	818	1.88
8 - 32	347	0.95	578	1.58	893	2.44	1260	3.44
10 - 24	433	1.37	722	2.29	1116	3.53	1575	4.99
12 - 24	599	2.16	998	3.59	1543	5.55	2178	7.84
1/4 - 20	787	3.28	1312	5.47	2027	8.45	2862	11.9
5/16 - 18	1297	6.75	2162	11.3	3341	17.4	4716	24.6
3/8 - 16	1918	12.0	3197	20.0	4941	30.9	6975	43.6
7/16 - 14	2631	19.2	4385	32.0	6777	49.4	9567	69.8
1/2 - 13	3512	29.3	5853	48.8	9046	75.4	12771	106
9/16 - 12	4505	42.2	7508	70.4	11603	109	16380	154
5/8 - 11	5594	58.3	9323	97.1	14408	150	20340	212
3/4 - 10	8267	103	13800	173	21293	266	30060	376
7/8 - 9	11435	167	11435	167	29453	430	41580	606
1 - 8	14999	250	14999	250	33633	561	54540	909
1-1/8 - 7	18884	354	18884	354	42347	794	68670	1288
1-1/4 - 7	23983	500	23983	500	53780	1120	87210	1817
1-3/8 - 6	28586	655	28586	655	64103	1469	103950	2382
1-1/2 - 6	34774	869	34774	869	77978	1949	126450	3161

**Tightening Torque = K \* D \* P**

where: K = 0.2 (dry, unlubricated)

D = Nominal Thread Size

P (Clamp Load) = 75% of the Proof Load



# TIGHTENING TORQUE

## Metric Units – Coarse Thread Series

Thread Size & Pitch	CLASS 4.6		CLASS 5.8		CLASS 9.8		CLASS 10.9	
	Clamp Load (kN)	Tightening Torque (N*m)	Clamp Load (kN)	Tightening Torque (N*m)	Clamp Load (kN)	Tightening Torque (N*m)	Clamp Load (kN)	Tightening Torque (N*m)
M6 x 1	3.41	4.09	5.73	6.87	9.80	11.76	12.5	15
M7 x 1	4.90	6.86	8.24	11.5	14.1	19.72	18.0	25
M8 x 1.25	6.20	9.93	10.4	16.7	17.8	28.55	22.8	36
M10 x 1.5	9.8	19.7	16.5	33.1	28.3	56.55	36.1	72
M12 x 1.75	14.3	34.3	24.0	57.7	41.1	98.63	52.5	126
M14 x 2	19.5	54.6	32.8	91.8	56.1	157	71.6	200
M16 x 2	26.6	85.2	44.7	143	76.5	245	97.7	313
M18 x 2.5	32.5	117	54.7	197	93.6	337	120	430
M20 x 2.5	41.5	166	69.8	279	119	478	153	610
M22 x 2.5	51.4	226	86.4	380	148	650	189	830
M24 x 3	59.8	287	101	483	172	826	220	1055
M27 x 3	77.8	420	131	706	224	1208	286	1543
M30 x 3.5	95.1	571	160	959	273	1641	349	2095
M33 x 3.5	118	776	198	1305	338	2233	432	2851
M36 x 4	138	997	233	1676	398	2868	509	3662
M39 x 4	165	1290	278	2170	476	3711	608	4739

**Tightening Torque = K \* D \* P**

where: K = 0.2 (dry, unlubricated)

D = Nominal Thread Size

P (Clamp Load) = 75% of the Proof Load

*The values presented in these tables are representative and have been compiled for the user's benefit. Results can be influenced by any number of variables including 1) excessive lubrication, 2) excessive design clamp load, 3) nicked or binding threads, 4) non-parallel mating surfaces, and 5) inadequate torque control, to name a few. Therefore, SKG expressly disclaims liability of any kind associated with the application of the data shown herein.*

# TIGHTENING TORQUE

**English Units – Fine Thread Series**

Thread Size & Pitch	GRADE 1		GRADE 2		GRADES 5, 5.1 & 5.2		GRADES 8, 8.1 & 8.2	
	Clamp Load (lb)	Tightening Torque (ft-lb)	Clamp Load (lb)	Tightening Torque (ft-lb)	Clamp Load (lb)	Tightening Torque (ft-lb)	Clamp Load (lb)	Tightening Torque (ft-lb)
6 - 40	251	0.58	419	0.96	647	1.49	914	2.10
8 - 36	365	1.00	608	1.66	940	2.57	1327	3.63
10 - 32	495	1.57	825	2.61	1275	4.04	1800	5.70
12 - 28	639	2.30	1064	3.83	1645	5.92	2322	8.36
1/4 - 28	901	3.75	1502	6.26	2321	9.7	3276	13.7
5/16 - 24	1436	7.48	2393	12.5	3698	19.3	5220	27.2
3/8 - 24	2173	13.6	3622	22.6	5597	35.0	7902	49.4
7/16 - 20	2938	21.4	4896	35.7	7567	55.2	10683	77.9
1/2 - 20	3958	33.0	6596	55.0	10194	84.9	14391	120
9/16 - 18	5024	47.1	8374	78.5	12941	121	18270	171
5/8 - 18	6336	66.0	10560	110	16320	170	20340	240
3/4 - 16	9232	115	15375	192	23779	297	33570	420
7/8 - 14	12598	184	12598	184	32449	473	45810	668
1 - 12	16409	273	16409	273	36797	613	59670	995
1-1/8 - 12	21186	397	21186	397	47508	891	77040	1445
1-1/4 - 12	26557	553	26557	553	59552	1241	96570	2012
1-3/8 - 12	32546	746	32546	746	72983	1673	118350	2712
1-1/2 - 12	39130	978	39130	978	87746	2194	142290	3557

**Tightening Torque = K \* D \* P**

where: K = 0.2 (dry, unlubricated)

D = Nominal Thread Size

P (Clamp Load) = 75% of the Proof Load

# TIGHTENING TORQUE

**Metric Units – Fine Thread Series**

Thread Size & Pitch	CLASS 4.6		CLASS 5.8		CLASS 9.8		CLASS 10.9	
	Clamp Load (kN)	Tightening Torque (N*m)	Clamp Load (kN)	Tightening Torque (N*m)	Clamp Load (kN)	Tightening Torque (N*m)	Clamp Load (kN)	Tightening Torque (N*m)
M8 x 1	6.64	10.6	11.2	17.9	19.1	30.6	24.4	39.0
M10 x 1.25	10.4	20.7	17.4	34.9	29.8	59.7	38.1	76.2
M12 x 1.25	15.6	37.5	26.2	63.0	44.9	108	57.3	138
M14 x 1.5	21.2	59.3	35.6	100	60.9	171	77.8	218
M16 x 1.5	28.3	90.6	47.6	152	81.4	261	104	333
M18 x 1.5	36.6	132	61.6	222	105	379	134	484
M20 x 1.5	46.1	184	77.5	310	133	530	169	677
M22 x 1.5	56.4	248	94.9	418	162	714	207	912
M24 x 2	65.1	312	109	525	187	899	239	1147
M27 x 2	84.1	454	141	763	242	1306	309	1667
M30 x 2	105	632	177	1062	303	1816	387	2319
M33 x 2	129	851	217	1431	371	2449	474	3127
M36 x 3	147	1056	247	1775	422	3036	538	3877
M39 x 3	175	1362	294	2290	502	3917	641	5001

**Tightening Torque = K \* D \* P**

where: K = 0.2 (dry, unlubricated)

D = Nominal Thread Size

P (Clamp Load) = 75% of the Proof Load

*The values presented in these tables are representative and have been compiled for the user's benefit. Results can be influenced by any number of variables including 1) excessive lubrication, 2) excessive design clamp load, 3) nicked or binding threads, 4) non-parallel mating surfaces, and 5) inadequate torque control, to name a few. Therefore, SKG expressly disclaims liability of any kind associated with the application of the data shown herein.*

## 螺栓紧固扭矩表

### 英制 - 粗牙螺纹

螺纹	1级		2级		5、5.1和5.2级		8、8.1和8.2级	
	预紧力 (lb)	紧固扭矩 (ft-lb)	预紧力 (lb)	紧固扭矩 (ft-lb)	预紧力 (lb)	紧固扭矩 (ft-lb)	预紧力 (lb)	紧固扭矩 (ft-lb)
6 - 32	225	0.52	375	0.86	579	1.33	818	1.88
8 - 32	347	0.95	578	1.58	893	2.44	1260	3.44
10 - 24	433	1.37	722	2.29	1116	3.53	1575	4.99
12 - 24	599	2.16	998	3.59	1543	5.55	2178	7.84
1/4 - 20	787	3.28	1312	5.47	2027	8.45	2862	11.9
5/16 - 18	1297	6.75	2162	11.3	3341	17.4	4716	24.6
3/8 - 16	1918	12.0	3197	20.0	4941	30.9	6975	43.6
7/16 - 14	2631	19.2	4385	32.0	6777	49.4	9567	69.8
1/2 - 13	3512	29.3	5853	48.8	9046	75.4	12771	106
9/16 - 12	4505	42.2	7508	70.4	11603	109	16380	154
5/8 - 11	5594	58.3	9323	97.1	14408	150	20340	212
3/4 - 10	8267	103	13800	173	21293	266	30060	376
7/8 - 9	11435	167	11435	167	29453	430	41580	606
1 - 8	14999	250	14999	250	33633	561	54540	909
1-1/8 - 7	18884	354	18884	354	42347	794	68670	1288
1-1/4 - 7	23983	500	23983	500	53780	1120	87210	1817
1-3/8 - 6	28586	655	28586	655	64103	1469	103950	2382
1-1/2 - 6	34774	869	34774	869	77978	1949	126450	3161

紧固扭矩 =  $K * D * P$

其中： K = 0.2 (干燥, 未润滑)

D=标称螺纹大小

P (预紧力) =保证载荷的75%

## 螺栓紧固扭矩表

### 公制 - 粗牙螺纹

螺纹	4.6类		5.8类		9.8类		10.9类	
	预紧力 (kN)	紧固扭矩 (N*m)	预紧力 (kN)	紧固扭矩 (N*m)	预紧力 (kN)	紧固扭矩 (N*m)	预紧力 (kN)	紧固扭矩 (N*m)
M6 x 1	3.41	4.09	5.73	6.87	9.80	11.76	12.5	15
M7 x 1	4.90	6.86	8.24	11.5	14.1	19.72	18.0	25
M8 x 1.25	6.20	9.93	10.4	16.7	17.8	28.55	22.8	36
M10 x 1.5	9.8	19.7	16.5	33.1	28.3	56.55	36.1	72
M12 x 1.75	14.3	34.3	24.0	57.7	41.1	98.63	52.5	126
M14 x 2	19.5	54.6	32.8	91.8	56.1	157	71.6	200
M16 x 2	26.6	85.2	44.7	143	76.5	245	97.7	313
M18 x 2.5	32.5	117	54.7	197	93.6	337	120	430
M20 x 2.5	41.5	166	69.8	279	119	478	153	610
M22 x 2.5	51.4	226	86.4	380	148	650	189	830
M24 x 3	59.8	287	101	483	172	826	220	1055
M27 x 3	77.8	420	131	706	224	1208	286	1543
M30 x 3.5	95.1	571	160	959	273	1641	349	2095
M33 x 3.5	118	776	198	1305	338	2233	432	2851
M36 x 4	138	997	233	1676	398	2868	509	3662
M39 x 4	165	1290	278	2170	476	3711	608	4739

$$\text{紧固扭矩} = K * D * P$$

其中： K = 0.2（干燥，未润滑）

D=标称螺纹大小

P（预紧力）=保证载荷的75%

表中所列为典型值，方便用户参考，实际结果可能受到许多变量的影响，包括：1) 过多的润滑；2) 过大的设计预紧力；3) 缺口的螺纹或螺纹咬死；4) 配合表面不平行；以及 5) 扭矩控制不充分。因此，魁固明确声明不承担与此处所示数据应用有关的任何责任。

## 螺栓紧固扭矩表

### 英制 - 细牙螺纹

螺纹	1级		2级		5、5.1和5.2级		8、8.1和8.2级	
	预紧力 (lb)	紧固扭矩 (ft-lb)	预紧力 (lb)	紧固扭矩 (ft-lb)	预紧力 (lb)	紧固扭矩 (ft-lb)	预紧力 (lb)	紧固扭矩 (ft-lb)
6 - 40	251	0.58	419	0.96	647	1.49	914	2.10
8 - 36	365	1.00	608	1.66	940	2.57	1327	3.63
10 - 32	495	1.57	825	2.61	1275	4.04	1800	5.70
12 - 28	639	2.30	1064	3.83	1645	5.92	2322	8.36
1/4 - 28	901	3.75	1502	6.26	2321	9.7	3276	13.7
5/16 - 24	1436	7.48	2393	12.5	3698	19.3	5220	27.2
3/8 - 24	2173	13.6	3622	22.6	5597	35.0	7902	49.4
7/16 - 20	2938	21.4	4896	35.7	7567	55.2	10683	77.9
1/2 - 20	3958	33.0	6596	55.0	10194	84.9	14391	120
9/16 - 18	5024	47.1	8374	78.5	12941	121	18270	171
5/8 - 18	6336	66.0	10560	110	16320	170	20340	240
3/4 - 16	9232	115	15375	192	23779	297	33570	420
7/8 - 14	12598	184	12598	184	32449	473	45810	668
1 - 12	16409	273	16409	273	36797	613	59670	995
1-1/8 - 12	21186	397	21186	397	47508	891	77040	1445
1-1/4 - 12	26557	553	26557	553	59552	1241	96570	2012
1-3/8 - 12	32546	746	32546	746	72983	1673	118350	2712
1-1/2 - 12	39130	978	39130	978	87746	2194	142290	3557

紧固扭矩 =  $K * D * P$

其中:  $K = 0.2$  (干燥, 未润滑)

$D$  = 标称螺纹大小

$P$  (预紧力) = 保证载荷的75%

## 螺栓紧固扭矩表

### 公制 - 细牙螺纹

螺纹	4.6类		5.8类		9.8类		10.9类	
	预紧力 (kN)	紧固扭矩 (N*m)	预紧力 (kN)	紧固扭矩 (N*m)	预紧力 (kN)	紧固扭矩 (N*m)	预紧力 (kN)	紧固扭矩 (N*m)
M8 x 1	6.64	10.6	11.2	17.9	19.1	30.6	24.4	39.0
M10 x 1.25	10.4	20.7	17.4	34.9	29.8	59.7	38.1	76.2
M12 x 1.25	15.6	37.5	26.2	63.0	44.9	108	57.3	138
M14 x 1.5	21.2	59.3	35.6	100	60.9	171	77.8	218
M16 x 1.5	28.3	90.6	47.6	152	81.4	261	104	333
M18 x 1.5	36.6	132	61.6	222	105	379	134	484
M20 x 1.5	46.1	184	77.5	310	133	530	169	677
M22 x 1.5	56.4	248	94.9	418	162	714	207	912
M24 x 2	65.1	312	109	525	187	899	239	1147
M27 x 2	84.1	454	141	763	242	1306	309	1667
M30 x 2	105	632	177	1062	303	1816	387	2319
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$$\text{紧固扭矩} = K * D * P$$

其中： K = 0.2 (干燥, 未润滑)

D=标称螺纹大小

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