

Shock Absorber & Gas Spring

Shock absorber

KPA/KUPA256
Industrial Shock Absorber, Adjustable	
KSCA257
Industrial Shock Absorber, Non-Adjustable	
KPA/KUPA-CO258
Industrial Shock Absorber, Adjustable, for Cutting Oil	
KPA/KUPA-ST5258
Industrial Shock Absorber, Adjustable, ST5	
KHS259
Industrial Shock Absorber, Non-Adjustable, Compact	

Speed controller

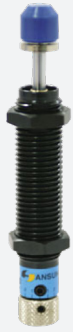
KCSC259
Constant Speed Controller	

Gas spring

KBG260
Gas Spring	

KPA/KUPA

Industrial Shock Absorber, Adjustable

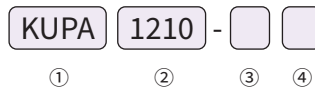


KUPA



KPA

How to order



① Cap

KPA	Without cap M12~M27 only
KUPA	With cap M12~M27: Urethane M36~M85: Steel

② Outer diameter & Stroke

1210	M12XP1.0	10mm
1410	M14XP1.5	10mm
1612	M16XP1.5	12mm
2015	M20XP1.5	15mm
2525	M25XP1.5	25mm
2725*	M27XP30	25mm
	M27XP1.5	
3035	M30XP1.5	35mm
3625	M36XP1.5	25mm
3650		50mm
4225	M42XP1.5	25mm
4250		50mm
4275		75mm
64050	M64XP2.0	50mm
64100		100mm
64150		150mm
8550	M85XP2.0	50mm
8590		90mm
85125		125mm
85165		165mm

③ Finishing

-	Black oxide coating
N	Nickel plating

④ Option

-	Lock nut M08~M36 (Basic : include 2ea) Lock nut M42~M85 (Basic : include 1ea)
S/C	Stop collar (Only M14~M85)
S/F	Square flange (Only M36~M85)
R/F	Rectangular flange (Only M36~M64)
U/C	Urethane cap (Only M36~M85)

* M27xP3.0: KPA, KUPA2725 / M27xP1.5: KPS(without cap), KUPS(With cap)2725

Specifications

Model	Total energy (Nm)	Total energy (Nm/h)	Effective weight (kg)	Shock force (N)	Return force (N)	Weight (g)
KPA1210	13	19,000	0.3~70	600	4~10	45
KUPA1210	13	19,000	0.3~70	600	4~10	50
KPA1410	15	24,500	0.3~90	680	5~11	55
KUPA1410	15	24,500	0.3~90	680	5~11	65
KPA1612	20	30,000	1.3~200	1,000	7~14	110
KUPA1612	20	30,000	1.3~200	1,000	7~14	125
KPA2015	25	35,000	1.3~220	1,160	8~15	135
KUPA2015	25	35,000	1.3~220	1,160	8~15	150
KPA2525	70	70,000	9.8~1,300	3,800	15~45	340
KUPA2525	70	70,000	9.8~1,300	3,800	15~45	390
KPA2725	70	70,000	9.8~1,300	3,800	15~45	340
KPS2725	70	70,000	9.8~1,300	3,800	15~45	450
KUPA2725	70	70,000	9.8~1,300	3,800	15~45	390
KUPS2725	70	70,000	9.8~1,300	3,800	15~45	500
KUPA3035	170	80,000	15~1,950	5,000	30~60	600
KUPA3625	180	90,000	17~2,450	6,000	40~75	680
KUPA3650	350	110,000	34~4,900	6,000	25~60	780
KUPA4225	250	130,000	25~7,000	2,400	50~85	1,000
KUPA4250	500	157,500	45~10,000	2,400	35~75	1,300
KUPA4275	750	195,000	55~10,500	2,400	35~100	1,600
KUPA64050	1,250	245,000	70~16,000	3,300	80~165	3,500
KUPA64100	2,550	335,000	115~19,000	3,300	75~210	4,700
KUPA64150	3,750	370,000	130~26,500	3,300	95~360	6,100
KUPA8550	2,400	384,000	180~34,000	66,000	140~200	6,300
KUPA8590	4,100	656,000	210~40,000	66,000	100~210	7,300
KUPA85125	5,800	945,000	220~45,000	66,000	90~210	8,900
KUPA85165	7,100	1,150,000	290~50,000	66,000	90~400	10,900

Max. Impact velocity ≤ 3.5 m/sec

Ambient temp. -10 ~ 60°C

Features

- Prevents damage to the product and maintains improved quality.
- Able to adjust impact absorbed range with dampening adjustable dial(360°) according to impact velocity.
- Rapid return by specially designed spring prepares for the next action. Increase acceleration of the equipment to improve productivity.
- Extends the lifespan of the equipment and reduces production costs.
- Reduced noise in the factory improves work efficiency.



Detail catalog

KSCA

Industrial Shock Absorber, Non-Adjustable

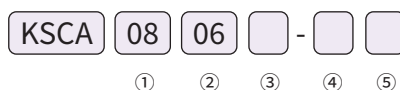


Long stroke

Black oxide coating

Nickel plating

How to order



① Outer diameter		② Stroke	
08	M8XP1.0	06	06 mm
10	M10XP1.0	06	06 mm
12	M12XP1.0	10	10 mm
14	M14XP1.0* M14XP1.5*	15	15 mm
20	M20XP1.5	20	20 mm
		30	30 mm
		50	50 mm
25	M25XP2.0	25	25 mm
		30	30 mm
		50	50 mm
		80	80 mm
36	M36XP1.5	80	80 mm

* Order made : outer diameter M14XP1.5

③ Cap	
-	Without cap (Only M08, M10, M12, M14, M20)
B	With cap (KSCA2030~KSCA2580 Standard have urethane cap basically)

④ Damping constant	
1	Soft
2	Standard
3	Hard

⑤ Finishing	
-	Black oxide coating
N	Nickel plating

• M08 to M12 sizes are nickel plated as standard.

Specifications

Model	Total energy (Nm)	Total energy (Nm/h)	Effective weight (kg)	Shock force (N)	Return force (N)	Weight (g)
KSCA0806-1	2.8	6,000	≤ 8	250	1~4	15
KSCA0806-2			≤ 10			
KSCA1006-1	4	10,000	≤ 5	630	4~6	25
KSCA1006-2			≤ 8			
KSCA1006-3			≤ 13			
KSCA1210-1	8	14,000	≤ 8	1,050	5~10	40
KSCA1210-2			≤ 16			
KSCA1415-1	15	27,000	≤ 7	1,300	7~11	65
KSCA1415-2			≤ 17			
KSCA1415-3			≤ 32			
KSCA2020-1	30	35,000	≤ 10	1,900	10~30	130
KSCA2020-2			≤ 16			
KSCA2020-3			≤ 32			
KSCA2030B-1	45	37,000	≤ 10	1,900	10~30	230
KSCA2030B-2			≤ 16			
KSCA2030B-3			≤ 32			
KSCA2050B-1	75	40,000	≤ 10	1,900	10~30	300
KSCA2050B-2			≤ 16			
KSCA2050B-3			≤ 32			
KSCA2525B-1	80	72,000	≤ 20	4,000	20~40	270
KSCA2525B-2			≤ 30			
KSCA2525B-3			≤ 110			
KSCA2530B-1	100	75,000	≤ 30	4,000	10~35	300
KSCA2530B-2			≤ 50			
KSCA2530B-3			≤ 110			
KSCA2550B-1	130	76,000	≤ 30	4,000	20~50	410
KSCA2550B-2			≤ 50			
KSCA2550B-3			≤ 110			
KSCA2580B-1	210	86,500	≤ 30	4,000	20~45	530
KSCA2580B-2			≤ 50			
KSCA2580B-3			≤ 110			
KSCA3680B-1	320	128,000	≤ 1,000	5,000	25~50	800
KSCA3680B-2						
KSCA3680B-3						

Max. Impact velocity ≤ 4 m/sec

Ambient temp. -10 ~ 60°C



Detail catalog

KPA/KUPA-CO

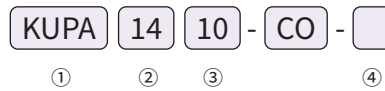
Industrial Shock Absorber, Adjustable, for Cutting Oil



KPA-CO

KUPA-CO

How to order



① Cap

KPA	Without cap
KUPA	With cap

④ Finishing

-	Black oxide coating
N	Nickel plating

② Outer diameter

③ Stroke

14	M14XP1.5	10	10 mm
20	M20XP1.5	15	15 mm

Features

- Applied in working environments where non-water soluble **cutting fluid** is used.



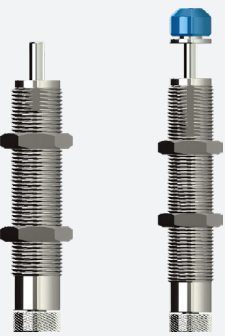
Detail catalog

Specifications

Model	Stroke (mm)	Total energy (Nm)	Total energy (Nm/h)	Effective weight (kg)	Shock force (N)	Return force (N)	Weight (g)
K(U)PA1410-CO	10	15	24500	0.3~90	680	5~11	58
K(U)PA2015-CO	15	25	35000	11~220	1160	8~15	166

KPA/KUPA-ST

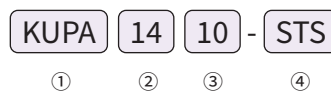
Industrial Shock Absorber, Adjustable, STS



KPA-ST

KUPA-ST

How to order



① Cap

KPA	Without cap
KUPA	With cap (urethane cap)

④ Finishing

ST	External STS
STS	External and Internal STS

② Outer diameter

③ Stroke

14	M14XP1.5	10	10 mm
16	M16XP1.5	12	12 mm
20	M20XP1.5	15	15 mm

Features

- For **preventing rust** and **corrosion** in food, chemical and humid work environments.



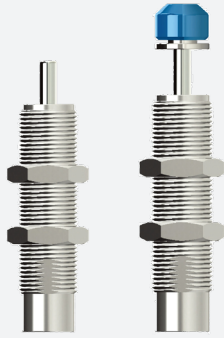
Detail catalog

Specifications

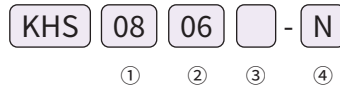
Model	Stroke (mm)	Total energy (Nm)	Total energy (Nm/h)	Effective weight (kg)	Shock force (N)	Return force (N)	Weight (g)
K(U)PA1410-ST	10	15	24500	0.3~90	680	5~11	65
K(U)PA1410-ST							
K(U)PA1612-ST	12	20	30000	1.3~200	1000	7~14	125
K(U)PA1612-ST							
K(U)PA2015-ST	15	25	35000	1.3~220	1160	8~15	150
K(U)PA2015-ST							

KHS

Industrial Shock Absorber, Non-Adjustable, Compact



How to order



① Outer diameter		② Stroke	
10	M10XP1.0	06	6 mm
10	M10XP1.0	08	8 mm
14	M14XP1.5	12	12 mm
20	M20XP1.5	15	15 mm

③ Cap	
-	None
B	Urethane cap
T	Steel head cap(only M14, M20)

④ Finishing	
N	Nickel plating(standard)

Features

- **Compact** length for use in narrow work environments.



Detail catalog

Specifications

Model	Stroke (mm)	Total energy (Nm)	Total energy (Nm/h)	Effective weight (kg)	Shock force (N)	Return force (N)	Weight (g)
KHS1006-N	6	3	9000	Less 7	560	4~6	20
KHS1006B-N							22
KHS1008-N	8	4	10000	Less 9	620	4~6	22
KHS1006B-N							24
KHS1412-N	12	15	27000	Less 14	1300	7~11	62
KHS1412B-N							70
KHS2015-N	15	30	35000	Less 16	1900	10~30	134
KHS2015B-N							154

KCSC

Constant Speed Controller



How to order



① Series	
KCSC	Constant speed controller

② Stroke	
15	15mm
30	30mm
50	50mm

Specifications

Model	KCSC15	KCSC30	KCSC50	
Stroke	15	30	50	
Force (N)	Min.	30	30	35
	Max.	3,000	3,000	3,000
Return force (N)	Min.	20	20	20
	Max.	30	30	35
Return time (Sec)	0.8	1.2	1.8	
Max. Acceptance angle (°)	1.5	1.5	1.0	
Material	Body	Steel(nickel plating)		
	Piston rod	Special steel(chromium plating)		
Range of impact velocity	0.01m/s~0.65m/s			
Ambient temperature	-10~60°C			
Adjustment	Adjustment knob located at rear. "0" is soft and "30" is hard.			

Features

- Controls speed **smoothly** and **consistently** based on load.
- **Easy adjustment** of transfer control with adjustment dial.



Detail catalog

KBG

Gas Spring

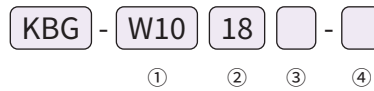


W30



B21

How to order



① End fitting

W10	Bolt bracket (Ø6 X 3T)
W30	Bolt bracket (Ø8 X 5T)
B20	Metal ball socket
B21	Hinge (Ø8X10T)
B22	Plastic ball socket

② Cylinder outer diameter

15	Ø15
18	Ø18
22	Ø22
27.4	Ø27.4

③ Max. Length

Refer to specifications below.

④ Force

Refer to specifications below.

Features

- Provides **smooth** and controlled **movement** for lifting, lowering, and positioning applications.
- **Compact** design with low installation space requirements.
- Reliable operation in various environmental conditions.
- Maintenance-free with a **long lifespan**.
- Applicable for **various industries** such as furniture, medical equipment, and industrial machinery.



End fitting shape changed from welding to bolt type.

W10 Bolt bracket (Ø6 X 3T)	W30 Bolt bracket (Ø8 X 5T)	B20 Metal ball socket	B21 Hinge (Ø8X10T)	B22 Plastic ball socket

Specifications

End fitting	Cylinder outer dia	Piston rod outer dia	Max. Length (mm)	Stroke (mm)	Force (kgf/cm ²)	Calculation method(mm)
W10 Bolt bracket (Ø6 X 3T)	Ø15	Ø6	160~500	52~222	3~30	Max. Length = (Stroke+28) X 2~500 Stroke = 52~Max. Length / 2-28
	Ø18	Ø8	160~800	46~366	5~30	Max. Length = (Stroke+34) X 2~800 Stroke = 46~Max. Length / 2-34
W30 Bolt bracket (Ø8 X 5T)	Ø18	Ø8	180~800	48~361	5~50	Max. Length = (Stroke+39) X 2~800 Stroke = 51~Max. Length / 2-39
	Ø22	Ø10			10~80	
	Ø27.4	Ø12.5			10~100	
B20 Metal ball socket	Ø18	Ø8	180~800	48~358	5~50	Max. Length = (Stroke+42) X 2~800 Stroke = 48~Max. Length / 2-42
	Ø22	Ø10			10~100	
	Ø27.4	Ø12.5			10~120	
B21 Hinge (Ø8X10T)	Ø18	Ø8	180~800	46~356	5~50	Max. Length = (Stroke+44) X 2~800 Stroke = 46~Max. Length / 2-44
	Ø22	Ø10			10~100	
	Ø27.4	Ø12.5			10~120	
B22 Plastic ball socket	Ø18	Ø8	180~800	50~360	5~50	Max. Length = (Stroke+40) X 2~800 Stroke = 50~Max. Length / 2-40
	Ø22	Ø10			10~80	
	Ø27.4	Ø12.5			10~80	

• MOQ: 200 pieces per model.

If the size is the same for the same type and only the rebound force is different, it will be recognized as one item.



Detail catalog