



Recommendation for food, medical, and the chemical industry. Automatic hammering equipment of blockade prevention.

| Model | Code Number |
|--------|-------------|
| RKVS30 | 000820000 |
| RKVS40 | 000821000 |
| RKVS60 | 000822000 |



Feature Specification / Size / Installation

Stainless steel made model of highly efficient relay knocker series. The most suitable for pharmacy, food and the chemistry industry or other job site where requires the corrosion resistance and safety. The controllable power and piping function are the same as relay knocker series.

The stainless steel body excellent in corrosion resistance

The main parts of this product are using stainless steel material, and are excellent in protection against corrosion. Washing in water of a system can use the product made from aluminum, and the product made from steel in a required field and the field which dislikes rust, comparing and feeling easy.

Attaching an exhaust filter and extension of the exhaust position are available.

A stainless steel knocker is oil-free, and is an environment-friendly product. The exhaust air which comes out of a knocker can be made to discharge out of a clean room through an extended air tube. Moreover, when an extended air tube cannot be used, the option parts of an exclusive filter are also prepared.



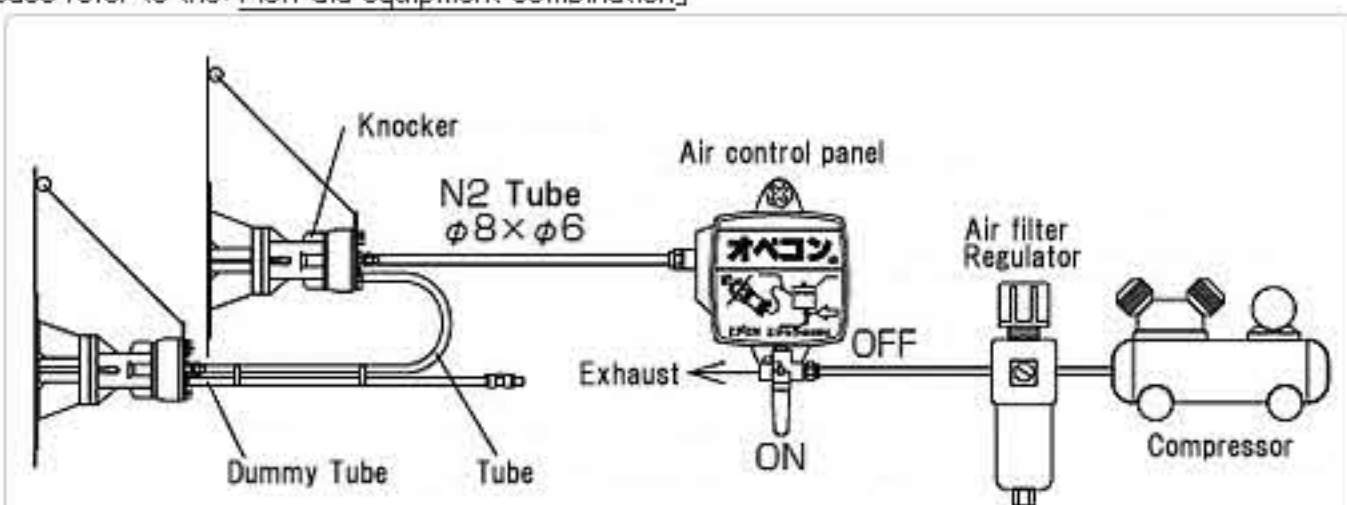
Power adjustment is available

An impact force can be changed only by changing the pressure of supply air. Moreover, there is effectiveness also in a reduction of sound. Even when the mistake of model selection occurs, it can solve by conditioning of a impact force, so model selection is appreciated with relief.



Simultaneous operation of two or more units is available by relay piping

Relay piping function in which two or more sets can be operated at the same time by one set of a control panel. Air controller AOC of one set can use to three sets of knockers. The exclusive control panel for knockers can be used two or more sets similarly. Number of a control panel can be reduced in the whole facilities, equipment cost becomes cheap by introduction of a relay piping.
*Please refer to the [Flow aid equipment combination]



Automatic control can be performed by attaching a solenoid valve before on air operation controller.(air supply-side)

Relay piping operation principle

- (1) The compressed air which flowed in into the knocker is first supplied to a valve chamber, depresses a valve, and is stored in an accumulator.
- (2) If a three way valve is operated and the air in a valve chamber is exhausted, the compressed air in an accumulator will move a mushroom valve upwards.
- (3) If a mushroom valve moves, the compressed air in an accumulator will strike a push-down piston.

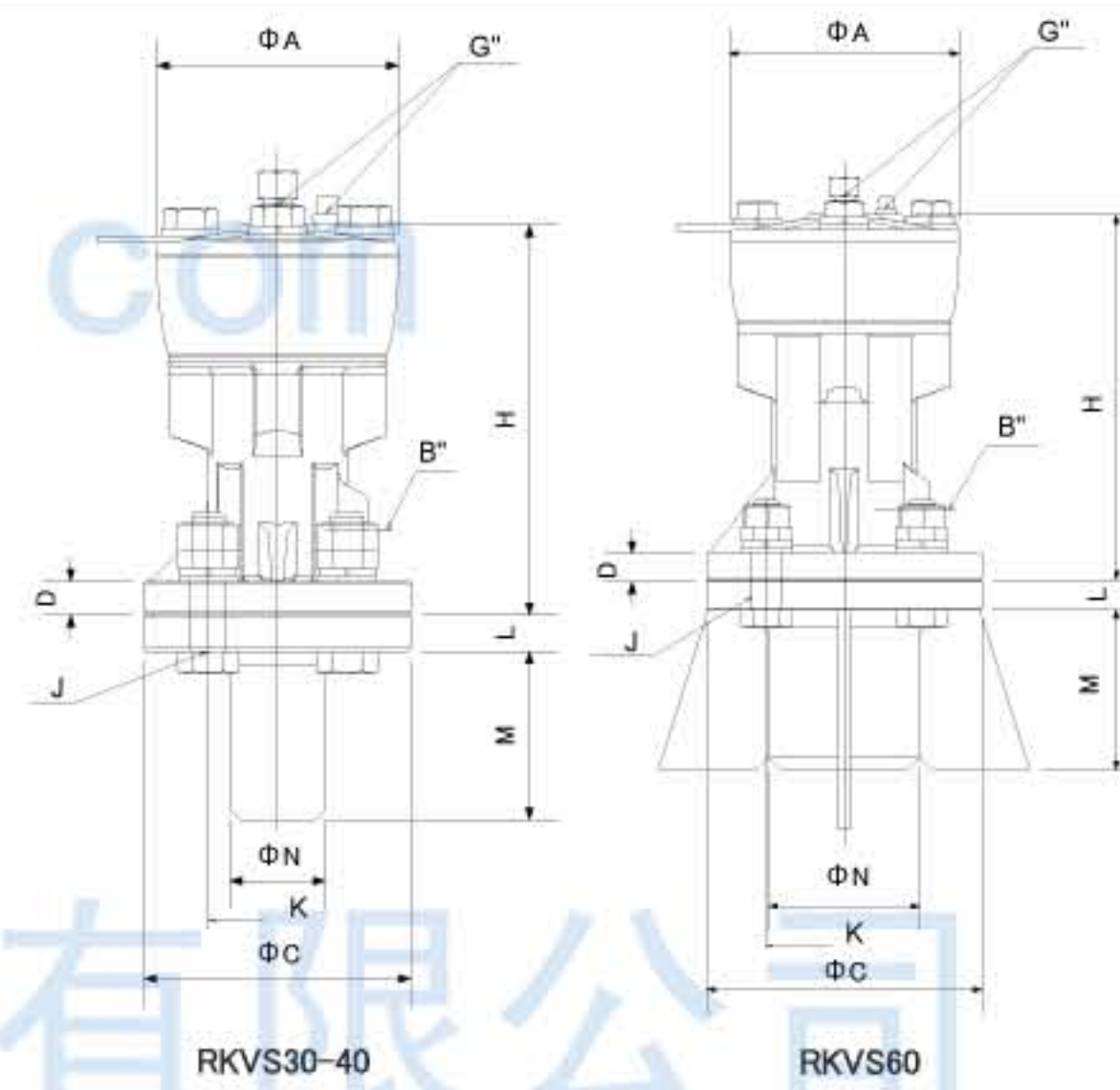
Environment-friendly by oil free

Lubricant is not required. Oil mist may not come out, it is the best for the work environment in a factory. Lubricator is unnecessary to supply equipment of air, and the merit of cost reduction is in it.

Simple structure & high durability

The stainless steel knocker is almost maintenance-free by the high design criteria, durability, and simple structure.

dimensional drawing



dimensional chart (mm)

| Model | ΦA | B'' | ΦC | D | G'' | H |
|--------|-----|-----|-----|----|-----|-----|
| RKVS30 | 66 | 1/4 | 70 | 8 | 1/8 | 95 |
| RKVS40 | 86 | | 95 | 12 | | 140 |
| RKVS60 | 115 | 3/8 | 138 | 14 | | 183 |

| Model | ΦJ | ΦK | L | M | ΦN |
|--------|------|-----|----|----|------|
| RKVS30 | 8.5 | 55 | 8 | 35 | 27.2 |
| RKVS40 | 12.5 | 70 | 13 | 60 | 34.0 |
| RKVS60 | 14.5 | 110 | 15 | 80 | 76.0 |

*Bolt recommends a class 10.9

dimensional chart (inch)

| Model | ΦA | B'' | ΦC | D | G'' | H |
|--------|-----|-----|-----|-----|-----|-----|
| RKVS30 | 2.6 | 1/4 | 2.8 | 0.3 | 1/8 | 3.7 |
| RKVS40 | 3.4 | | 3.7 | 0.5 | | 5.5 |
| RKVS60 | 4.5 | 3/8 | 5.4 | 0.6 | | 7.2 |

| Model | ΦJ | ΦK | L | M | ΦN |
|--------|-----|-----|-----|-----|-----|
| RKVS30 | 0.3 | 2.2 | 0.3 | 1.4 | 1.1 |
| RKVS40 | 0.5 | 2.8 | 0.5 | 2.4 | 1.3 |
| RKVS60 | 0.6 | 4.3 | 0.6 | 3.1 | 3.0 |

*Bolt recommends a class 10.9

Stainless steel knocker specification (mm)

| Model | Working Pressure (Mpa) | Stroke Cycle (time/min) | Air Consumption (L/time(ANR)) | Stroke Energy (N·m) |
|--------|------------------------|-------------------------|-------------------------------|---------------------|
| RKVS30 | 0.3~0.7 | 1~60 | 0.05~0.13 | 5.5~13.1 |
| RKVS40 | | | 0.15~0.37 | 9.2~22.3 |
| RKVS60 | | | 0.33~0.77 | 20.6~49.0 |

| Model | Impulsive Force | | The diameter of an inlet port | The diameter of an exhaust port | Weight (kg) |
|--------|-----------------|--------------|-------------------------------|---------------------------------|-------------|
| | (kg·m/s) | Hammer pound | | | |
| RKVS30 | 1.2~1.8 | below 1.0 lb | PS 1/8B | PS 1/4B | 1.7 |
| RKVS40 | 2.6~4.0 | 1.0~1.5 lbs | | | 4.3 |
| RKVS60 | 6.9~10.6 | 1.5~3.0 lbs | | | 10.6 |

* weight is include base.

Stainless steel knocker specification (inch)

| Model | Working Pressure (psi) | Stroke Cycle (time/min) | Air Consumption (gal/time(ANR)) | Stroke Energy (lbw·ft) |
|--------|------------------------|-------------------------|---------------------------------|------------------------|
| RKVS30 | 43.5~101.5 | 1~60 | 0.013~0.034 | 4.1~9.7 |
| RKVS40 | | | 0.040~0.098 | 6.8~16.4 |
| RKVS60 | | | 0.067~0.208 | 15.2~36.1 |

| Model | Impulsive Force | | The diameter of an inlet port | The diameter of an exhaust port | Weight (lb) |
|--------|-----------------|--------------|-------------------------------|---------------------------------|-------------|
| | (ft·lb/s) | Hammer pound | | | |
| RKVS30 | 8.7~13.0 | below 1.0 lb | PS 1/8B | PS 1/4B | 3.7 |
| RKVS40 | 18.8~28.9 | 1.0~1.5 lbs | | | 9.5 |
| RKVS60 | 49.9~76.7 | 1.5~3.0 lbs | | | 23.4 |

* weight is include base.