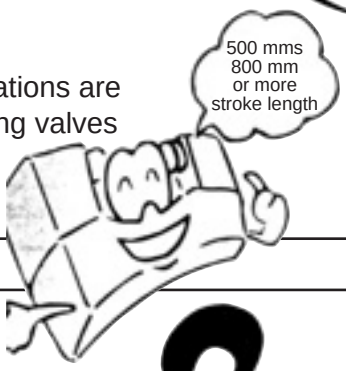
Q&A

SKH shock absorbing valve FAQ

Q1

What kind of applications are SKH shock absorbing valves effective in?

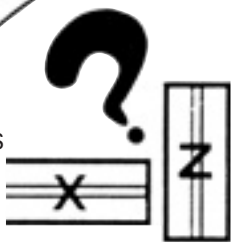


A1

They are effective in applications where the cylinder movement speed is 500 mm/s or above, the stroke length thereof is 800 mm or more, and it is desirable to decelerate the cylinder towards the extremities in order to eliminate shock at the end.

Q2

Can the SKH shock absorbing valves only be used with cylinders installed in the direction of the X-axis (horizontal direction) ?



A2

No, they can also be used with cylinders installed in the Z-axis direction (vertical direction). (Balance the top and bottom by attaching a reverse regulator, etc.)

Q3

Can SKH shock absorbing valves be used together with a cylinder with brake?

A3

Yes, they can be used together. By installing an SKH shock absorbing valve, it will be possible to reduce the deviation of the brake stopping accuracy.

Q4

Are there cases in which an SKH shock absorbing valve cannot be used?

A4

Yes, there are. As they operate with pressure control using relief valves, the units cannot be used in the following conditions where the exhaust pressure will not rise.

(1) When the cylinder movement speed is less than 500 mm/s.
(2) When the cylinder stroke length is 800 mm or less and the decelerating distance is less than 350 mm.
(3) When the cylinder bore size is less than ø25.
(4) When the air pressure is not within 0.3 MPa to 0.7 MPa.

Q5
When using an SKH shock absorbing valve, will it be necessary to install a valve switching timing sensor for the cylinder?

A5
While the switching timing of the valve is necessary, instead of using an external sensor, it is also possible to switch the timing by using a software timer, etc., within the control sequence circuit. (When using a cylinder sensor, use an off-delay for the cylinder switch.)

Q6
Where should the SKH shock absorbing valves be installed?

A6
For shock absorbing effect, they should be installed in locations where the distance between the cylinder port and the shock absorbing valve is the shortest possible.

Q7
Can the SKH shock absorbing valves be used in poor working environments such as environments where the valves will be exposed to water, cutting chips, or dust?

A7
In general, it will be necessary to use a protective cover, etc. Contact CKD as a master type is also available apart from the solenoid valve.

Q8
Will an absorber on the end be unnecessary if an SKH shock absorbing valve is used?

A8
The absorber will not be necessary as long as a distance that enables sufficient deceleration can be ensured with the cylinder stroke. The absorber may be kept on.

Q9
Isn't it difficult to adjust SKH shock absorbing valves?

A9
Perform adjustments by following the adjustment procedures listed in the instruction manual.

Q10
Is it easy to perform maintenance and inspection of SKH shock absorbing valves?

A10
Referring to the relief valve structural diagram, you will find that the structure is simple and that disassembly and inspection are easy. In addition, a relief valve kit for maintenance is also available.