

Becoming a contributor to Carbon Neutrality





CKD Corporation cc-1550A 4



HIGH PRODUCTIVITY SERIES

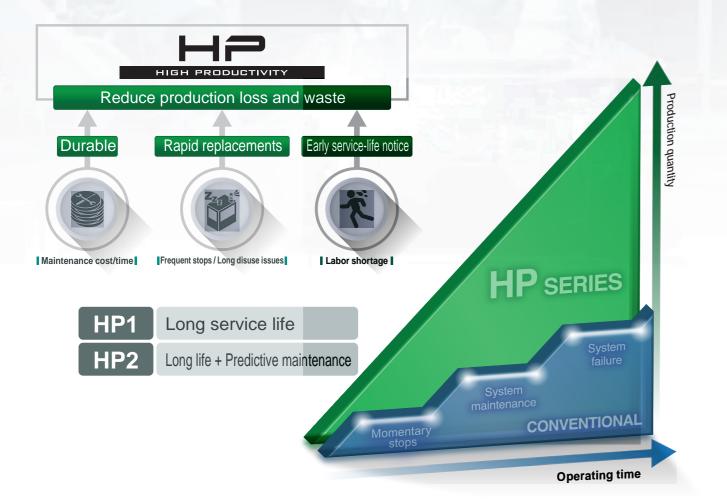
Carbon neutrality comes from reducing CO₂ emissions through long service life products

Green

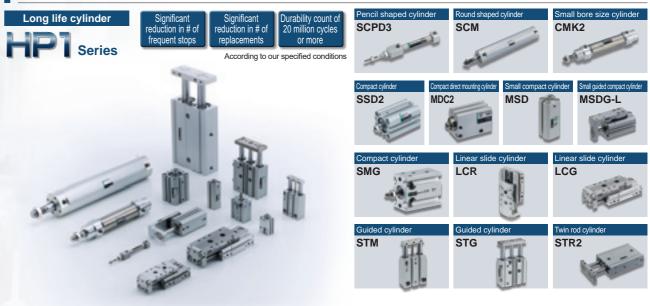
Power

CKD's idea of "HIGH PRODUCTIVITY"

Loss occurs when productivity decreases. Additionally, parts that require maintenance become waste. We believe that eliminating maintenance and achieving high productivity will lead to carbon neutrality. CKD's HP Series focuses on the origins of manufacturing from the component's perspective. In order to improve productivity in high-frequency, stressful environment processes, we will contribute to "unstoppable production equipment" and the "realization of stable operation" with unprecedented long-life products.

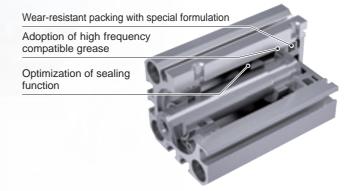






Long life

By optimizing the design and sealing function of the packing part and using grease that can be used frequently, we have achieved a longer life with the same dimensions as conventional products.



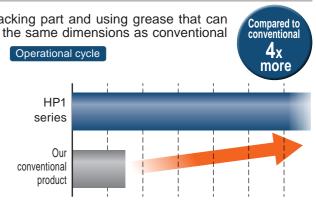
Stable operation

Due to the optimal structure of the sliding part, the starting pressure does not increase even after repeated operations. Since the starting pressure is constant, the operating time is also constant. This contributes to stable operation without occasional stoppages.



Same dimensions as conventional products

Since it has the same dimensions as the conventional product, it can be replaced without changing the design or modifying the equipment.



* The durability of the HP Series is the lifespan under our specified conditions it varies depending on the usage conditions and surrounding environment, we cannot guarantee that it will last four times longer under all conditions

Flexible lead wire switch available

We offer switches that use bendresistant lead wires that do not easily break even when used on moving parts. (Switch model number T2HR3, T2VR3, F-switch)



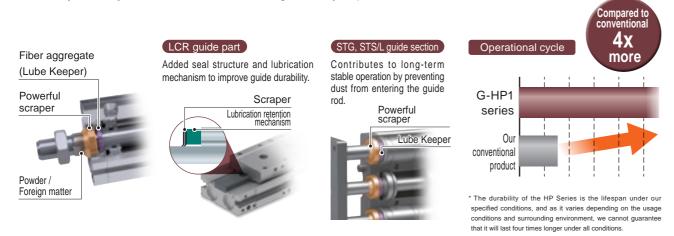


Improved environmental resistance Will not break even in dusty environments



Long life even in harsh environments

Equipped with a powerful scraper and lube keeper to prevent dust from entering and maintain lubrication. Durability in dusty environments has been significantly improved.



Stable operation even in harsh environments

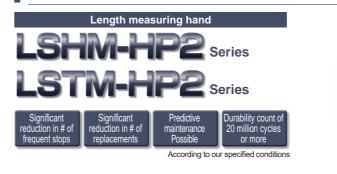
Conducted tests that simulated a dusty environment. Durability has been confirmed through rigorous testing.

| [Test conditions] | | 5 9 Th 100 | Ch |
|-------------------|---------------------|---------------------|----------------|
| Working pressure | 0.5 MPa | LAND THE ALL AND | Tal deflect |
| Dust type | 5 to 75 µm | A THE AND A COMMENT | |
| Dust amount | 1.5 g / twice a day | and the second | |
| Number of dust | 2 times / day | and the sea | |
| injections | | | |
| Payload | None | | |
| | | test image | |



Linear Slide Hand SH-HP1 Series





Increased guide rigidity Realizes high rigidity and durability



Increased guide rigidity Realizes high rigidity, high precision, and high durability





According to our specified condition

HIGH PRODUCTIVITY SERIES

Increased rigidity of linear guide Achieves high rigidity, high precision, and high durability



Length can be measured at the same time as grasping - Replacement before breakdowns.







From the perspective of compressed air: Longer component life and improved productivity

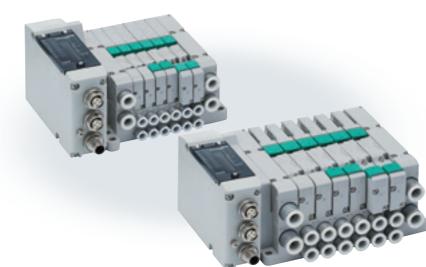




HIGH PRODUCTIVITY SERIES

Optimized sliding parts Long-life plug-in block manifold

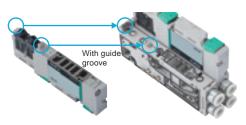




Plug-in valve with ultimate workability

Positioning support standard compatible PAT.P

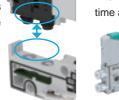
Equipped as standard with a "positioning support" that allows anyone to easily position the valve and base.



² Plug-in connection for easy assembly PAT.P

Actuator additions are wired complete

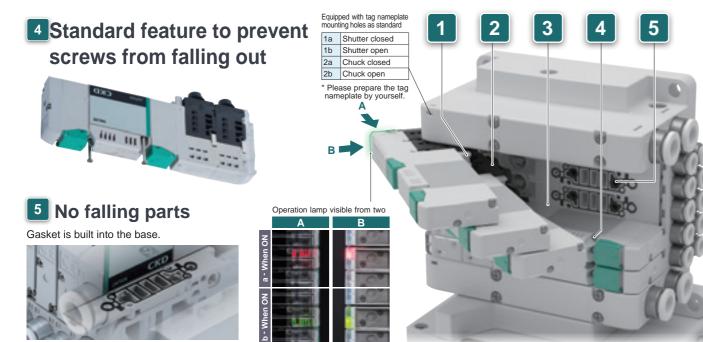
by plug-ins.



3 Easy to increase/decrease stations with connector coupling

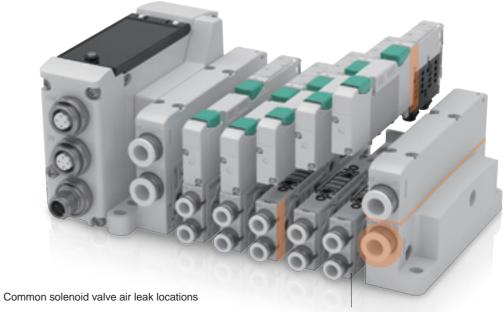
Internal wiring was completed at the same time as the manifold assembly.





Pursuing air leak reduction

Thoroughly improved the parts of the valve that are prone to air leaks. A plug-in valve that combines CKD's commitment to energy savings that lasts even after long-term use.



Pursuing stable operation

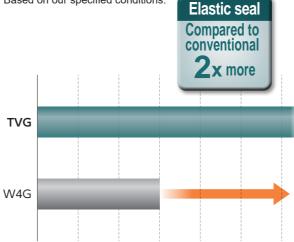
The TVG Series has optimized the sliding parts and has achieved a durability of 120 million cycles . Stable operation due to low sliding supports reliable operation of the actuator, realizing stable operation of equipment and reducing variations in quality.

Low friction / Long service life

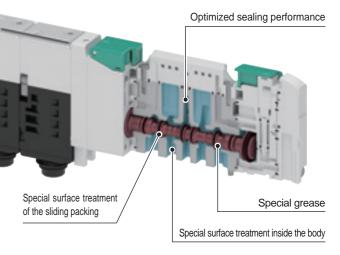
The superb sliding mechanism of the main valve realizes low friction and long service life. The elastic seal withstands 120 million cycles. Achieves both long life and low air leakage.

Durability of 120 million cycles *

*Based on our specified conditions



Adopts special resin



Improved idle response

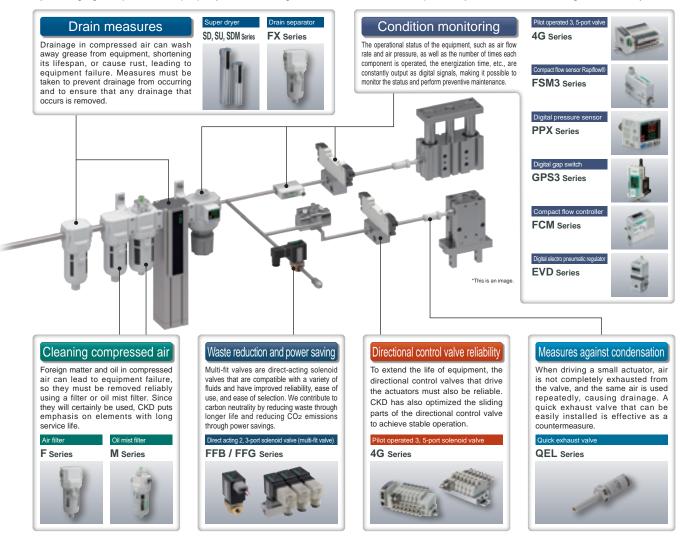
Starts smoothly even after holidays. Effective for Monday morning troubles and unexplained stoppages as well.

Uses special grease

The lubrication effect continues even in extremely dry air.

A total proposal for pneumatic systems that contributes to reducing CO2 emissions

By managing compressed air properly and choosing the best one for each component, you can achieve a longer life as a system.



Reducing CO₂ emissions through long-life products in the rechargeable battery and food manufacturing processes



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