

**We are here to help you improve
your production line efficiency and
reduce CO₂ emissions.**

Efficiency



**Reduced
maintenance time**

Energy-saving



**Decreased air blow air
consumption without
sacrificing work quality**

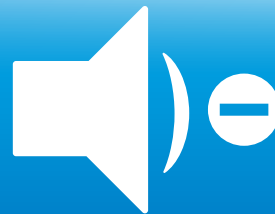
***Pneumatic
Optimization***

**Extended pneumatic
equipment life**



**Long
Service Life**

**Reduced silencer
exhaust noise**

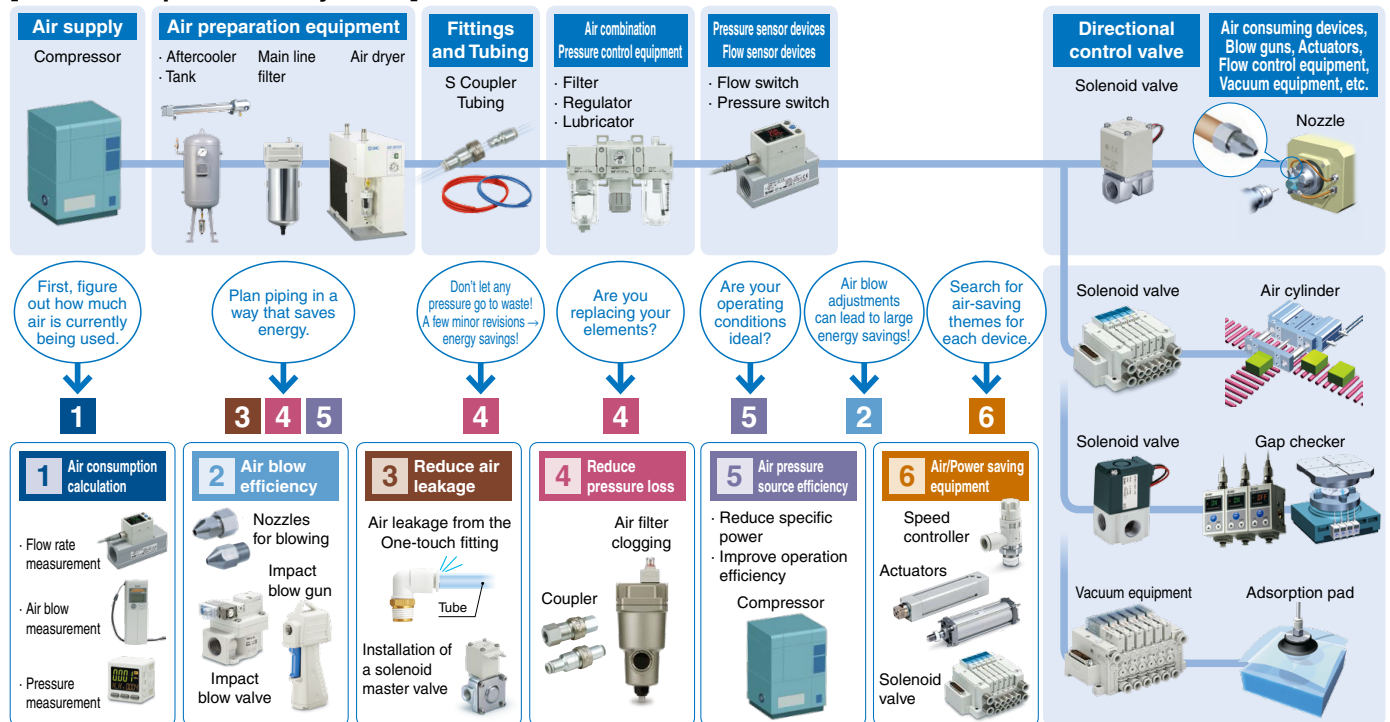


Safety



We have continued to work with our customers to solve pneumatic equipment issues of **efficiency, energy saving, product longevity, and safety** based on the three actuals philosophy.

[A series of pneumatic systems]



Problem solving process

1 Preliminary meeting



An SMC sales representative visits and listens to the problem.

2 Equipment survey



We will investigate the operational status of pneumatic equipment and air blow.

3 Optimization suggestions



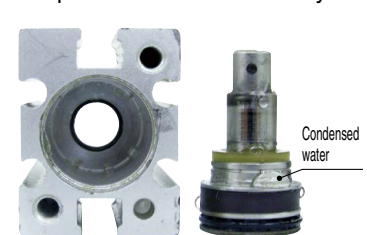
Based on the survey, optimization suggestions will be submitted in a report.

4 Follow-up of improvement activities

Technical training seminar



Component dissolution survey



Grease deteriorates or is washed away.

In order to realize the "optimization proposal," we will provide technical support such as component dissolution workshops, air pressure surveys, flow rate and pressure measurement, component selection, and follow-up activities until your improvement goals have been met.

Examples of efficiency improvements and reductions in CO₂ emissions

Efficiency

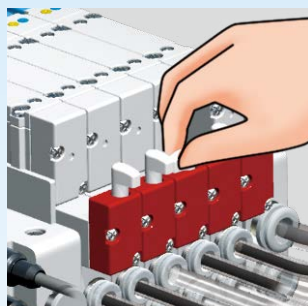


"I want to shorten the maintenance time for this product."

Lever Type

SUP Stop Valve Spacer

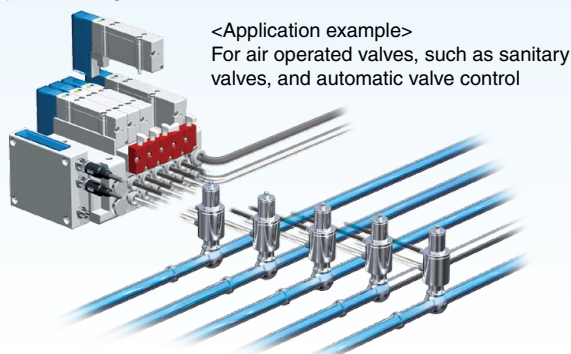
A lever has been added to manual override button!
Solenoid valves can be replaced individually without shutting off the main pressure!



SY Series

Solenoid valves can be replaced individually!

The solenoid valves can be replaced individually without stopping the equipment during maintenance.



<Application example>

For air operated valves, such as sanitary valves, and automatic valve control

Energy-saving



"I want to reduce the air consumption of air blow applications without lowering the workload."

Nozzle with self-align fitting
KN Series



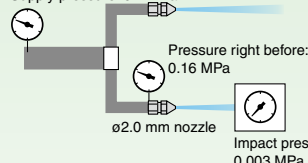
Nozzle with male thread
KN Series



Energy-saving nozzle to reduce flow rate * Depends on conditions.

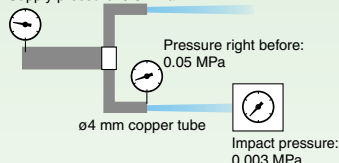
After improvement

Supply pressure: 0.2 MPa



Before improvement

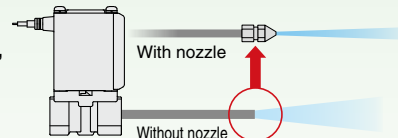
Supply pressure: 0.3 MPa



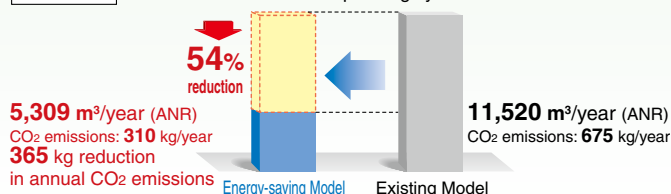
Air consumption per nozzle:
88 L/min (ANR)

Air consumption per copper tube:
192 L/min (ANR)

Install a suitable nozzle where soft copper piping, etc., is cut and used as is to conduct blow.



Conditions Blow time: 2 sec. Annual operating cycles: 900000



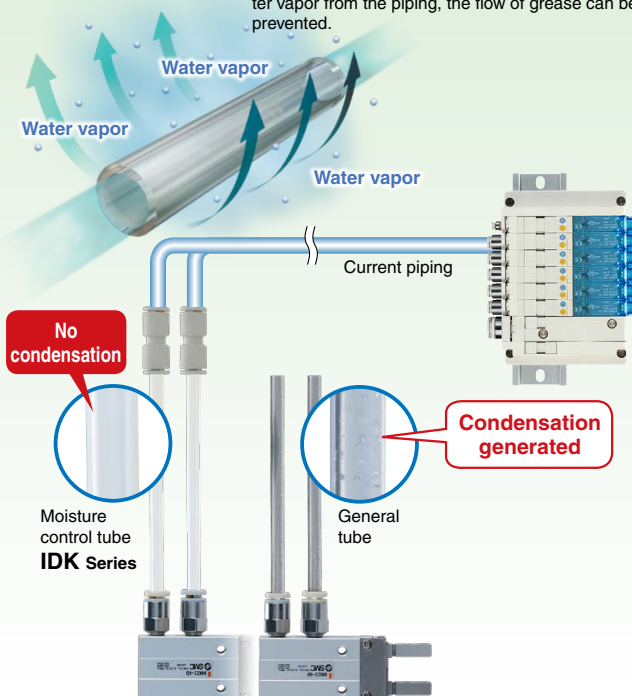
Long Service Life



"I want to extend the life of our pneumatic equipment."

Prevents condensation in piping

When a small cylinder is operated at a high speed, grease flows due to the condensation generated in the piping. This results in the premature wearing of the cylinder seal, which can lead to a malfunction. By using a moisture control tube to remove the water vapor from the piping, the flow of grease can be prevented.



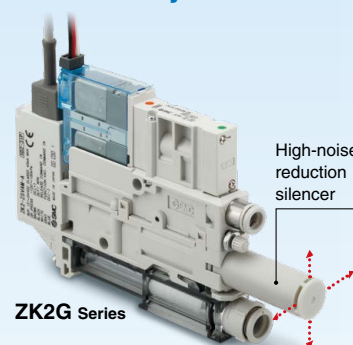
Safety



"I want to reduce the silencer exhaust noise of our vacuum ejectors."

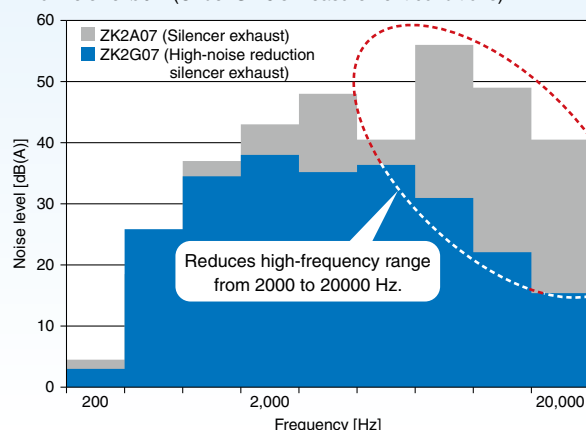
Vacuum ejector with high-noise reduction silencer

Unpleasant frequencies are removed while maximizing vacuum performance by using a dedicated silencer with improved silencing capabilities.



Low noise 46 dB(A)*1

*1 Nozzle size: ø0.7 (Under SMC's measurement conditions)

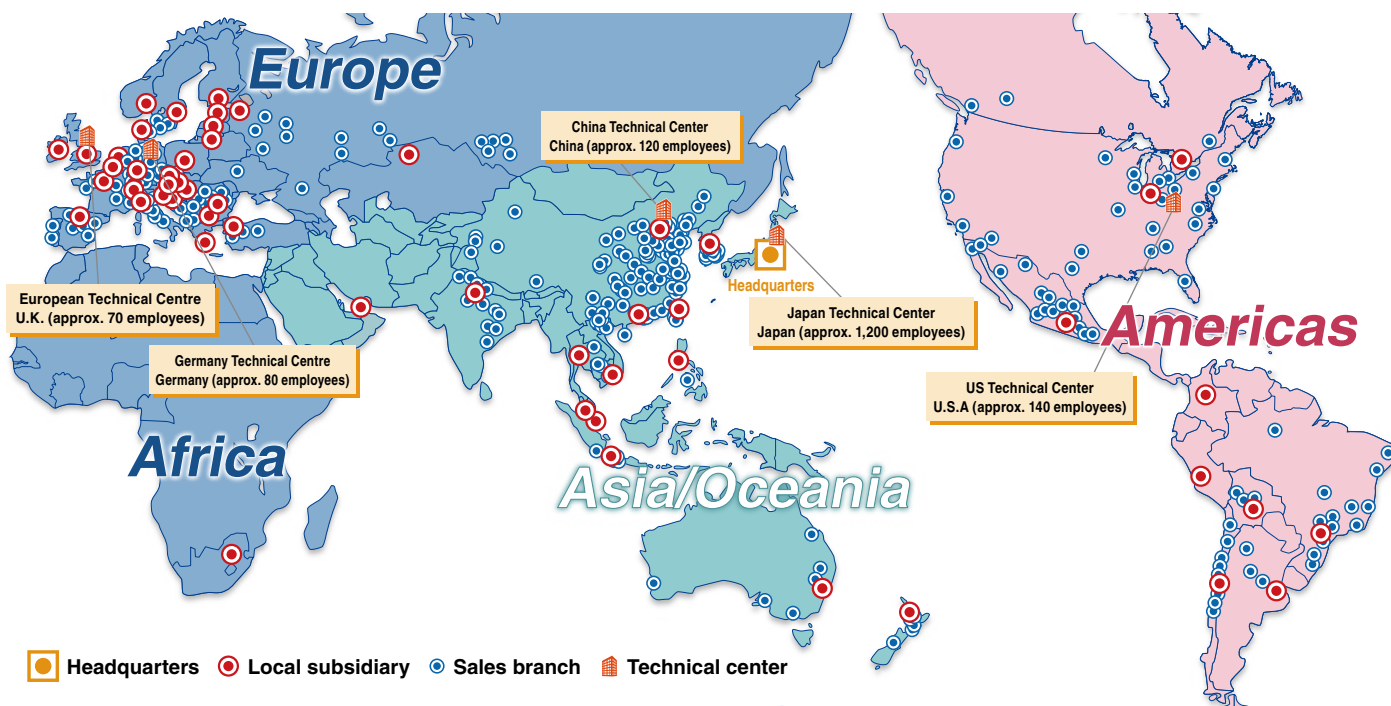


By taking advantage of SMC's global communication network,
we can respond quickly and appropriately to customers worldwide.



Over **80** countries/regions worldwide Local services in **532** locations

Production facilities: **29** countries/regions Number of employees: 20,853



Domestic sales network

SMC's extensive domestic sales network of 54 branch offices and 94 distributors with 596 offices

13 Hiroshima Block

Hiroshima, Fukuyama,
Yamaguchi

14 Kyushu Block

Fukuoka, Kita-kyushu (Oita),
Kumamoto (Minami-kyushu)

11 Osaka Block

Osaka, Minami-osaka,
Kadoma, Kobe, Himeji

12 Okayama Block

Okayama (Sanin), Takamatsu,
Matsuyama

6 Shizuoka Block

Hamamatsu, Shizuoka,
Numazu

7 Toyota Block

Toyota, Handa, Toyohashi

8 Nagoya Block

Nagoya, Yokkaichi, Komaki

9 Kanazawa Block

Kanazawa, Toyama, Fukui

10 Kyoto Block

Kyoto (Fukuchiyama),
Shiga, Nara

1 Tohoku Block

Sendai, Sapporo, Kitakami,
Yamagata, Koriyama

2 Kita-kanto Block

Omiya, (Soka, Kawagoe), Ibaraki,
Utsunomiya, Ota, Nagaoka

3 Koshin Block

Kofu, Nagano, Suwa

4 Tokyo Block

Tokyo, Minami-tokyo,
Nishi-tokyo, Chiba

5 Atsugi Block

Atsugi, Yokohama

⚠ Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.

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