

OSHA Standard Compliant Nozzle for One-touch Fitting

New

RoHS

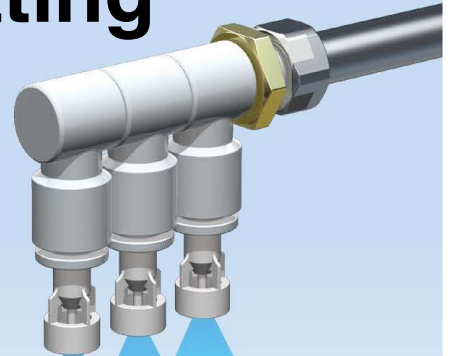
Resin type



Stainless steel type

Fluid temperature

Max. 150°C



Compliant with OSHA Standard 1910.242(B)

The structure prevents closing of the discharge port. This is a safety design that limits the pressure to 30 psi even when an operator is touching the nozzle. (Operating pressure: 0.5 MPa or less)

Energy saving of air blowing

CO₂ emissions (Air consumption)

42% reduction

Significantly lowers the air consumption in comparison to a comb-shaped nozzle with a comparable blowing range.

* Compared at the same impact pressure

Low noise

Max. 8 dB(A) reduction

Lower noise than a nozzle with male thread when the impact pressure is the same

* When the impact pressure is 5 kPa

KNA nozzle
KNA(G)-Q10-180

76 dB(A)

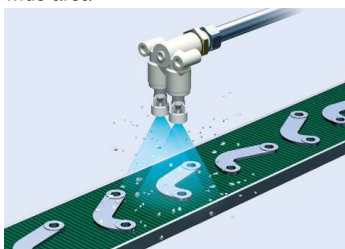
Existing model

Nozzle for One-touch fitting
(Resin type)

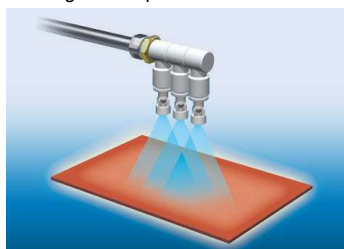
KN-Q10A-200
84 dB(A)

Application Examples

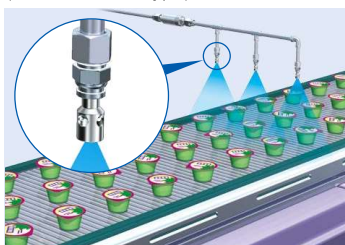
Removal of foreign matter across a wide area



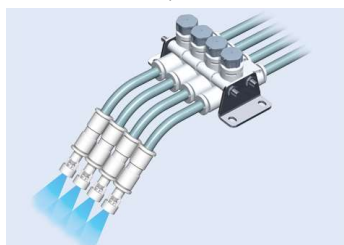
Cooling of workpieces



Blowing air on food products
(Stainless steel type)



Connects to a restrictor (AS-X21, X214)
to allow flow rate adjustment at the nozzle



Applicable One-touch Fittings

One-touch Fittings
KQ2 Series



Rotary One-touch Fittings
KS/KX Series



Self-seal Fittings
KC Series



Piping Module
KB Series



Stainless Steel
One-touch Fittings
KG Series



Clean One-touch Fittings
for Blowing
KP Series



Metal One-touch Fittings
KQB2 Series



Stainless Steel 316 One-touch
Fittings
KQG2 Series



* Please use the product in accordance with the specifications provided in the catalogs/operation manuals. It is your responsibility to check the suitability for your workpiece and equipment.

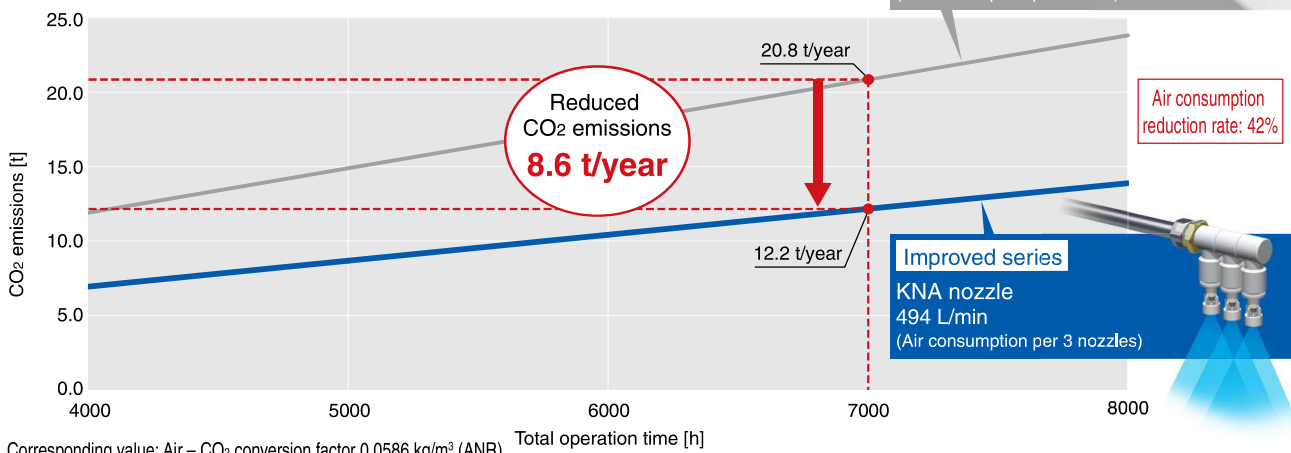
KNA(G)-Q10-180



CAT.ES50-44A

Energy saving by improving the nozzle (reduction of compressed air)

The CO₂ emissions for total blowing hours per year (7000 h) when the KNA series is used is 12.2 t, compared to 20.8 t when a comb-shaped nozzle is used. This is a reduction of 42% (8.6 t).



[Installation example]

	Existing series	Improved series
Nozzle series	Comb-shaped nozzle	KNA-Q10-180
Installation quantity (piece/line)	10	30
Installation quantity (line)	10	10

* Compared at the same impact pressure

[Calculation conditions]

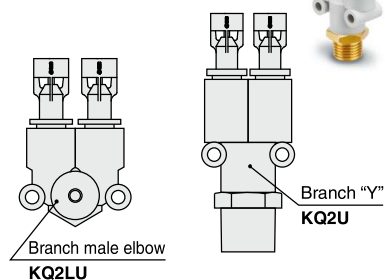
Blowing distance	80 mm
Impact pressure	10 kPa

[Work model]

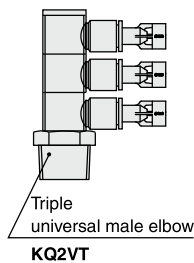
Blow time	10	s/cycle
Frequency	12	cycles/h
Operating hours	10	h/day
Operating days	210	days/year
Total operation time per year	7000	h/year

Adjustable layout to match application

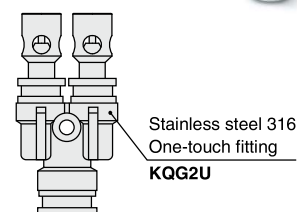
Twin Nozzle



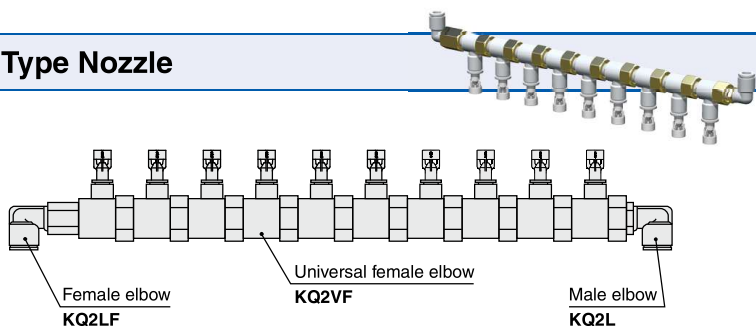
Triple Nozzle



Water-resistant Type



Bar Type Nozzle



Caution

If the KNA series nozzle is used with a non-SMC fitting, it may come off, posing a serious risk to the user. It is recommended to use an SMC One-touch fitting with this product. Before operation, check that the nozzle is securely attached to the One-touch fitting and will not fall off. Refer to the **Web Catalog** for details on fittings.