



Expertise – Passion – Automation

Add food safety to your recipe

SMC's solutions for food safety and compliance

Ensuring food safety and compliance

Ensuring compliance to the latest food safety legalisation / benchmarks is vital to the success of any food manufacturing business. With an increasing focus on food safety and hygienic design food manufacturing site auditors are paying close attention to these aspects.

Responding to this need, SMC has developed a range of products known as the HF1 and HF2 series which can help food manufacturers and OEMs satisfy the requirement to meet their mandatory HACCP (Hazard Awareness Critical Control Point) requirements for food safety.

SMC's solutions for food safety and compliance



Series

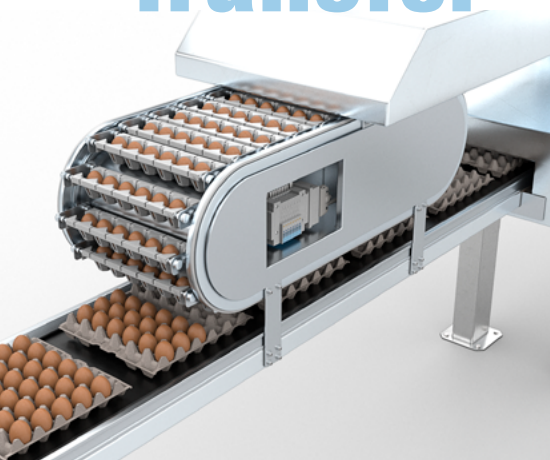
“The use of HF1 / HF2 filtration products is particularly suitable for compressed air systems that blow either directly or indirectly on to food products or their associated packaging. With filtration to ISO 8573-1 and a HF2 antibacterial filtration option, these products can help support a food manufacturing business’s prerequisite and HACCP requirements.”

STEVE ARNOLD, Food Standard Manager

Find our products suitable for the requirements of diverse food manufacturing processes:

Discover more on
SMC Food Industry Solutions

Transfer



Box making



Stirring and mixing



Filling



Cleaning



Sorting



Packaging



Drying and cooling



Fluid contact parts: No grease or NSF H1 grade grease

HF1 products* feature either no internal grease or use NSF H1 food grade grease on wetted parts to ensure no taint or contamination to the food products

Combination units



Air combination units

HF1-AC-D-X7000 Series ⊕

Filters



- **Filter**
HF1-AF-D Series
- **Mist separator**
HF1-AFM20-D Series
- **Micro mist separator**
HF1-AFD-D Series

ISO 8573 compliant:

- **Filter**
HF1-AFF-D Series
- **Micro mist separator**
HF1-AMD-D Series
- **Activated carbon filter**
HF1-AMK-D Series

ISO 8573 compliant:
Mist separator
HF1-AM-D Series

* For products outside the digital catalogue, please contact SMC

Fluid contact parts: No grease or NSF H1 grade grease

Pressure regulators

- **Regulator**
HF1-AR-D Series
- **Filter regulator**
HF1-AW-D Series
- **Precision regulator**
HF1-IR□000-A Series



Electro-pneumatic regulator
HF1-ITV2000/3000 Series

Pressure relief 3-port valve



**OSHA Standard compliant,
pressure relief 3-port valve**
HF1-VHS-D Series

Fluid contact parts: No grease or NSF H1 grade grease

Speed controllers



Speed controller with one-touch fitting
HF1-AS-F Series

Process valves



Pulse valve
HF1-JSXF/JSXFA Series

Sensors & Switches



Pressure switch, reed switch type
HF1-IS10 Series

2-port solenoid valve
HF1-JSX/JSXD Series

Directional control valves

3-port solenoid valve
HF1-VP300/500/700 Series



Mechanical valve
HF1-VM Series

HF1 Compatible

SMC's solutions for food safety and compliance

Air dryer

- Membrane air dryer
IDG Series ⊕



- Membrane air dryer
IDG-A Series ⊕

Pressure regulators

- Electro-pneumatic regulator
ITV1000 Series ⊕



- Clean regulator
SRH3000/4000 Series ⊕

Speed controllers



Stainless steel speed controller
ASG Series ⊕

316 stainless steel, one-touch fittings
KQG2 Series ⊕



Fittings

- **Miniature fittings**
M Series ⊕
- **Insert fittings**
KF Series ⊕
- **Self-align fittings**
H/DL/L/LL Series ⊕
- **316 stainless steel, insert fittings**
KFG2 Series ⊕
- **Clean one-touch fittings**
KP Series ⊕

FDA compliant:

- **Insert fitting, clean design**
KFG2H-C Series ⊕
- **One-touch fitting, 316 stainless steel**
KQG2-F Series ⊕
- **Insert fitting, 316 stainless steel**
KFG2-F Series ⊕

Tubing

- **Nylon standard tubing, standard**
T Series ⊕
- **Soft nylon general use tubing**
TS Series ⊕
- **Polyurethane standard tubing**
TU Series ⊕
- **Soft polyurethane tubing**
TUS Series ⊕
- **Polyurethane standard tubing, hard polyurethane**
TUH Series ⊕
- **Wear resistant tubing, multi-core flat**
TUZ Series ⊕
- **Polyurethane coil tubing, standard**
TCU Series ⊕
- **Polyurethane general use tubing, multi-core flat**
TFU Series ⊕



Pressure gauges

- **Pressure gauge for general purpose**
G36 Series ⊕
- **Pressure gauge for general purpose**
G46 Series ⊕
- **Oil-free/external parts copper-free pressure gauge**
G46E Series ⊕
- **Pressure gauge for clean regulator**
G46-SRA, G46-SRB Series ⊕

Sensors & Switches

- **3-screen display high-precision digital pressure switch for air**
ZSE20(F)/ISE20-X2 Series ⊕
- **3-screen display high-precision digital pressure switch, grease-free**
ISE70/71-X2 Series
- **Digital pressure switch, grease-free**
ISE35-X528 Series
- **2-colour display digital flow switch**
PF2M7 Series ⊕
- **2-colour integrated display digital flow switch**
PFMB7 Series ⊕
- **Flow sensor**
PFMV5 Series ⊕



3-screen display high-precision digital pressure switch for general fluids

ZSE20C(F)/ISE20C(H) Series ⊕

Process valves



2-port high speed valve

SX10 Series ⊕

* For products outside the digital catalogue, please contact SMC

Fluid contact parts: No grease or NSF H1 grade grease FDA compliant materials

HF2 products feature either no internal grease or use NSF H1 food grade grease and FDA compliant materials for the wetted parts

Combination units



Antibacterial air combination unit
HF2-BAC Series ⊕

- **Modular antibacterial filter, 5 μ m**
HF2-BFA Series ⊕
- **Modular antibacterial filter, 0.1 μ m**
HF2-BFB Series ⊕
- **Modular bacteria removal filter**
HF2-BFD Series ⊕
- **Modular odour removal filter**
HF2-BFC Series ⊕

HF2 Compatible

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Fittings



FDA compliant:

- **Insert fitting, clean design**
KFG2H-C Series ⊕
- **One-touch fitting, 316 stainless steel**
KQG2-F Series ⊕
- **Insert fitting, 316 stainless steel**
KFG2-F Series ⊕



**EHEDG compliant, male
connector insert fitting**
KFG2H-E Series ⊕

Filters



Bacteria removal filter
SFDA Series ⊕

Tubing

- **Chemical and heat resistant FEP tubing**
TH Series ⊕
- **Clean tubing, standard**
TPH Series ⊕
- **Clean tubing, soft polyolefin**
TPS Series ⊕



**Clean and chemical resistant
tubing, polyurethane, FDA
compliant**
TU-X214 Series ⊕

Discover more on
SMC Business Continuity Plan

Sustainable growth also means ensuring uninterrupted operations

We are committed to ensuring that SMC is prepared for any emergency and that our business activities will not stop in the event of such circumstances. SMC aims to fulfil our product supply responsibilities and maintain our customers' trust by contributing to both sustainable growth and the expansion of technological innovations.

SMC, as a comprehensive manufacturer of automatic control equipment that supports automation, is able to promptly provide products that meet our customers' needs anywhere in the world.

Finance BCP

Safe & Solid financial base

In the event of an emergency, SMC can provide a safe and solid financial base (with cash, deposits, and equity capital) that will sufficiently cover the working capital and funds needed to rebuild buildings and the equipment required for business continuity. This is done to provide peace of mind to our customers and workers alike.

Information security BCP

Vital data kept safe

Strengthen information security for protection against computer viruses and cyberattacks, plus the installation of data centres to establish a disaster recovery system. Your information is safe with us.

Sales BCP

Consistent sales support

7,900 sales engineers worldwide ready to recommend the best solution for you.
Over 80 global locations to make sure that wherever you are, we are there too.

Production BCP

Ensure customer order fulfilment

Reliable delivery for you thanks to our 9 global logistic centres and production sites in 30 countries, 10 of which are located in Europe. Moreover, flexibility to rapidly respond to any sudden change in the manufacturing environment.

Aiming to gain your trust
Sustainability through
reliability

Engineering BCP

Consistent technical support

1,700 engineers at our 5 technical centres around the globe (2 in Europe – Germany and UK).



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