



HF Series

Definitions of Terms

HF1- Series	No lubricants or rust proof agents are used on the fluid contact parts. When used, lubricants and rust proof agents for food machinery are used.
HF1A- Series	No lubricants or rust proof agents are used on the external parts. When used, lubricants and rust proof agents for food machinery are used.
HF1B- Series	No lubricants or rust proof agents are used on the external parts or fluid contact parts. When used, lubricants and rust proof agents for food machinery are used.

HF2- Series	No lubricants or rust proof agents are used on the fluid contact parts. When used, lubricants and rust proof agents for food machinery are used. In addition, U.S. FDA compliant materials are used.
HF2A- Series	No lubricants or rust proof agents are used on the external parts. When used, lubricants and rust proof agents for food machinery are used. In addition, U.S. FDA compliant materials are used.
HF2B- Series	No lubricants or rust proof agents are used on the external parts or fluid contact parts. When used, lubricants and rust proof agents for food machinery are used. In addition, U.S. FDA compliant materials are used.

HF3- Series	Products certified by a third-party organization* ¹
HF3A- Series	Uses materials that comply with food contact surface laws and regulations and does not use lubricants or rust proof agents

*1 Refer to each product catalog for certification standards.

Fluid contact parts: This refers to all parts that come into contact with the fluids (liquids, gases, etc.) that pass through the SMC product and flow out into the food manufacturing environment.
External parts (externally exposed parts): This refers to all exposed external parts and components of SMC products in food manufacturing environments.
Lubricants and rust proof agents for food machinery: This refers to NSF H1 grade registered lubricants (grease, hydraulic oil, turbine oil, etc.) and rust proof agents.
No lubricants or rust proof agents: This means that no lubricants or rust proof agents were used intentionally. This does not include during the cleaning of parts, assembly tools, etc.
U.S. FDA compliant materials/products: This refers to materials and products that are guaranteed or certified by the material manufacturer or analysis to be equivalent to U.S. FDA certified products.

	Material adhesion regulations for product internal parts 		Material adhesion regulations for product external parts 		Food machinery compatible product internal and external parts 		Products certified by a third-party organization 	
	HF1	HF2-	HF1A-	HF2A-	HF1B-	HF2B-	HF3-	HF3A-
	Material adhesion regulations for internal parts	HF1 + U.S. FDA materials	Material adhesion regulations for external parts	HF1A + U.S. FDA materials	Material regulations for internal and external parts	HF1B + U.S. FDA materials	Certified products	Contact surface regulations
No lubricants or rust proof agents	●	●	●	●	●	●		●
Lubricants and rust proof agents for food machinery	●	●	●	●	●	●		
U.S. FDA compliant materials (rubber/resin)		●		●		●		
Products certified by a third-party organization							●	
Contact surface regulations								●

Product internal parts (fluid contact parts): This refers to all parts that come into contact with the fluids (liquids, gases, etc.) that pass through the SMC product and flow out into the food manufacturing environment.
Product external parts (externally exposed parts): This refers to all exposed external parts and components of SMC products in food manufacturing environments.
Lubricants and rust proof agents for food machinery: This refers to NSF H1 grade registered lubricants (grease, hydraulic oil, turbine oil, etc.) and rust proof agents.
U.S. FDA compliant materials/products: This refers to materials and products that are guaranteed or certified by the material manufacturer or analysis to be equivalent to U.S. FDA certified products.