

Declaration of Compliance

ECON double eccentric butterfly valves series 91, 93 and 94



Eriks Flow Control herewith declares that the above mentioned butterfly valves meet the requirements as defined in:

- European Regulation (EC) No. 1935/2004 (Food Contact Materials)
- European Regulation (EC) No. 2023/2006 (Good Manufacturing Practice)
- FDA 21 CFR 177.1550 (Perfluorocarbon resins)

Product: Stainless steel butterfly valve with stainless steel disc and TF 1641 seat, series 91, 93 & 94.
The valve body, disc, stem and seat are the only valve parts intended to come into contact with food.

Migration test results stainless steel disc (ASTM A351-CF8M)

Migration test protocol according to CM/Res(2013)9, Specific release of Metals

Method	Parameter	Analysis principle	Migration conditions for the 3 successive migration steps	Result
71M549854 (Internal Method)	Preparation for migration (metals)	Exposure to 0,5% citric acid by article immersion ICP-MS	1 hour / 100°C (repeated use)	Pass

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Migration test results stainless steel stem (ASTM A564 Gr. 630)

Migration test protocol according to CM/Res(2013)9, Specific release of Metals

Method	Parameter	Analysis principle	Migration conditions for the 3 successive migration steps	Result
71M549854 (Internal Method)	Preparation for migration (metals)	Exposure to 0,5% citric acid by article immersion ICP-MS	1 hour / 100°C (repeated use)	Pass

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Migration test results PTFE seat - 3M Dyneon TF 1641

Migration test protocol according to EU 10/2011 (EN1186), Overall Migration

Food simulant	Contact foods	Time / Temperature	Technique	OML-value (mg/dm ²)	Result
A - Ethanol 10%	Aqueous food	4 hours / 90° C	Immersion	< 10	Pass
B - Acetic acid 3%	Acidic food	4 hours / 100° C	Immersion	< 10	Pass
D2 - Olive oil	Fatty food	4 hours / 100° C	Immersion	< 10	Pass

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Migration test protocol according to EU 10/2011 (EN1186), Specific Migration

Parameter		SML-value (mg/kg)	Result
Tetrafluoroethylene (TFE)	Worst case calculation of migration	< 0,05	Pass

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Extraction test method according to FDA CFR 21§177.1550, overall extraction

Test	Requirements (mg/inch ²)	Result
Extraction in Heptane 2 hours	Max. 0,03	Pass
Extraction in Water 2 hours	Max. 0,03	Pass
Extraction in 50% Ethanol 2 hours	Max. 0,03	Pass
Extraction in ETAC 2 hour	Max. 0,03	Pass

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ERIKS
Flow Control

Rob Verwijs
Quality & Product Development Manager

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