

DECLARATION OF COMPLIANCE

Regulation (EC) 1935/2004
 Materials and articles in contact with food

Product: Worcester 459 / 599 series 3-piece ball valves fitted with PTFE seats/seals



Valves are supplied in accordance with European Regulation (EC) no. 1935/2004 (materials and articles intended to come into contact with food).

Materials of construction

Materials in direct contact with the media		
Component	Basic Material	Material Grade
Body	Stainless steel	ASTM A351 CF8M
Connector	Stainless steel	ASTM A351 CF3M
Seat housing	Stainless steel	ASTM A351 CF8M
Ball	Stainless steel	ASTM A479 316 ASTM A351 CF8M
Stem	Stainless steel	ASTM A479 316/316N
Stem location ring	Stainless steel	AISI 316
Body seal	Plastic	PTFE, virgin
Seat ring	Plastic	PTFE, virgin
Stem seal	Plastic	PTFE, virgin
Gland seal	Plastic	PTFE, 25% glass filled
Gland packing	Plastic	PTFE, 25% glass filled

Heavy metals in metallic parts

The following heavy metals are not known to exist in the construction and manufacture of Worcester ball valves:

- Lead
- Cadmium
- Mercury

Plastic - PTFE based parts

PTFE is unreactive (inert) to most chemicals and food media. This material is not compatible with molten alkali metals, Fluorine and other halogens or strong oxidizing agents. Operating temperature of PTFE containing valves must not exceed 250 deg C. For exact operating pressure/temperature limitations please consult Flowserve.

Migration test limits of PTFE

PTFE components have been tested in accordance with regulation (EU) 10/2011 for plastics in contact with food.

Food simulant test results are available on request from Flowserve in accordance with (EU) 10/2011 Annex III, with limiting values as specified in (EU) 10/2011 article 12.

Assembly

The lubricant 'Rocol Dry PTFE spray' is used during the assembly of these valves. This spray is used as an anti-galling compound for the stem and other threaded areas and is generally used outside the areas in contact with food. Trace amounts may be present within the food contact areas.

Datasheets of the substances used during assembly are available on request from Flowserve.

Good Manufacturing Practice (GMP) and batch traceability

Flowserve Flow Control (UK) Ltd. meets the requirements of regulation (EC) No 2023/2006 (GMP) and operates a certified EN ISO 9001 quality system.

Batch traceable certification for all materials intended for contact with food is available on request from Flowserve.

Installation

Prior to installation, refer to the Installation, Operation and Maintenance instructions (IOM) provided.

Care must be taken during the handling and installation of these valves in order to avoid transferring outside contaminants to the product.

Valves and pipeline must be suitably cleaned prior to use, in order to remove contaminants and particles especially after welding in-line.

For and on behalf of Flowserve (GB) Ltd.

Signed:



Position: Quality Assurance Manager

Date: 26th June 2015