



Attestation according to DIN EN ISO 15848-1

**Armature d.o.o.
Koroska cesta 55
2366 Muta
Slovenia**

No. IS-AN5-MUC-2108-5010843436-001

We hereby confirm that we have tested and accept the butterfly valve of the above company in accordance with the DIN EN ISO 15848-1:2017. Details can be taken from the corresponding investigation report.

The product meets the following requirements of DIN EN ISO 15848-1:

Procedure:	Eleius / annex A (ISO 15848-1:2017)
Tightness class:	AH
Temperature class:	RT until +400 °C
Classification level:	C03 (2500 cycles)
Nominal pressure:	PN 102,1 bar / +400 °C / 69,4 bar
Operating conditions:	RT / 102,1 bar / +400 °C / 69,4
No of re-adjustments:	SSA0 (no readjustments)

The attestation is based on the test programme of TA-Luft and DIN EN ISO 15848-1:2017, which includes the proof of leakage of sealing joints with regard to compliance with the specific leakage rate according to DIN EN ISO 15848-1 [$\leq 1 \times 10^{-5}$ mg / s x m] under the above conditions.

Product description:

- Butterfly valve: CRANE® FK-TrieX™ Full Port Triple Offset Isolation Valves for Severe Service
- Nominal width range: 8" – CL 600
- Shaft diameter: 65 mm
- Shaft alignment: vertical
- Design: Butterfly valve
- Packing: Crane® FK-FE Packing
- Seal: Metal C-Ring HTMS
- Seal material: Type CI + Polished
- Spindle material: 1.4462
- Housing material: A216 WCB / 1.0619
- Surface pressure of the packing according to the operating instructions
- Quality of the packing material according to the order specifications
- Surface roughness according to drawings
- Dimensions, shape and position tolerances according to drawings
- Spring characteristic curve of the preload springs according to order specifications



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Marking:

ISO FE AH – C03 – SSA0 – t (RT bis +400 °C) – CL 600 – ISO 15848-1

Extension of qualification to untested valves (item 8, ISO 15848-1:2017):

- Fittings of identical construction with regard to material, design, manufacture, tolerance classes and surface condition of the components that influence the sealing function.
- The class or PN description of the fitting is the same or lower.
- The stem diameters are in the range of 50 % below and 100 % above those of the test fitting. $D_o / 2 \leq D \leq 2D_o$, where D_o is the stem diameter of the tested valve.

The attestation is based on the test programme of DIN EN ISO 15848-1. This attestation contains proof of the intended function under operating conditions with regard to tightness / leakage rate. This was proven by initial testing. The prerequisite for this is the use of flange systems made of steel which achieve the minimum surface pressure during installation or allow it to be exceeded.

A prerequisite for the validity of the certification is that the original operating instructions are observed and complied with. In order to permanently ensure tightness, requirements for the inspection and maintenance of the sealing systems shall be specified in management instructions.

This attestation is valid until August 2024.

Munich, 26 August 2021

TÜV SÜD Industrie Service GmbH
Institute for Plastics


J. A. Mindl

