

ASME BPE Manufacturer Declaration

(EN)

Manufacturer /Constructeur : **Bürkert SAS**
20, rue du Giessen
BP 21
67220 Triembach-au-Val, France

We hereby declare, that the following products in consideration of the instruction manual can be used under the mentioned conditions and fulfil the listed requirements.

Type :	8098 with WKLT=1 (Pipe in 316L)
(specification key/clef de produit)	8098 avec WKLT=1 (Tube en 316L)
Version :	Hygienic
Description :	Flowmeter Débitmètre

8098 FLOWave flowmeter is considered by ASME BPE-2022 standard as a Process Instrumentation. Therefore, the 8098 FLOWave flowmeter is concerned by the part GR (General Requirements), part PI (Process Instrumentation) and part SD (Systems Design) ASME BPE-2022 requirements as follows:

ASME BPE-2022 GR-3 MANUFACTURER'S QUALITY ASSURANCE PROGRAM

Bürkert is ISO9001 certified company. Our Quality Management System describes the processes, methods and procedures used to develop and manufacture the flowmeters, and used to control materials, drawings, specifications, manufacturing and testing as per ASME BPE-2022 GR-3.

ASME BPE-2022 PI-2.1.1 INSTALLATION

The flowmeter documentation contains the installation requirement and/or configurations, as per ASME BPE-2022 PI-2.1.1.

ASME BPE-2022 PI-2.1.2 INTERNAL DESIGN AND PROCESS CONNECTIONS

The flowmeter do not generate any contamination when failure (a), is designed as a hygienic fitting with connections according to parts SD and MC (d), works in both directions with preferred permanent marking for totalizator positive way of counting (f) as per ASME BPE-2022 PI-2.1.2.

ASME BPE-2022 PI-2.1.3 EXTERIOR DESIGN

The flowmeter material selection consider all intended uses described in the product documentation and comply with the part SD and MC requirements listed in this manufacturer declaration, as per ASME BPE-2022 PI-2.1.3.

ASME BPE-2022 PI-2.2.1 IN-LINE DEVICES

The flowmeter is installed directly in the process stream and comply to the basic installation requirements for hygienic operation as found in part SD requirements listed in this manufacturer declaration, as per ASME BPE-2022 PI-2.2.1.

ASME BPE-2022 PI-3.1 INTRODUCTION

The flowmeter is protected in an individual packaging and identified with laser marking or labels, as per ASME BPE-2022 PI-3.1.

ASME BPE-2022 PI-3.2 INSTRUMENT RECEIVING

The packaging and the flowmeter itself is labelled and identified by a type number, an ID number, a serial number and a date code, as per ASME BPE-2022 PI-3.2.

The instructions for safety and installation of the enclosed product documentation have to be observed.

ASME BPE Manufacturer Declaration

(EN)

ASME BPE-2022 PI-3.3 INSTRUMENT HANDLING: PROTECTION OF PROCESS CONNECTIONS AND SURFACE FINISH
As per ASME BPE-2022 PI-3.3, the flowmeter connections and the contact fluid surfaces are protected by two plastic cover caps. The external surfaces are protected by an individual packaging.

ASME BPE-2022 SD-2.3.1.1 STEAM IN PLACE

The flowmeters parts and components subjected to SIP can withstand continuous flow of saturated steam at a minimum temperature of 266°F (130°C) for duration of 100hr minimum under continuous steady-state conditions, as per ASME BPE-2022 SD-2.3.1.1.

ASME BPE-2022 SD-2.4.1.1 MATERIALS OF CONSTRUCTION: GENERAL

As per recommendation of ASME BPE-2022 SD-2.4.1.1, all Stainless Steels for process contact surfaces conform to AISI 316L 1.4435 BN2 as per Table MM-2.1-1.

ASME BPE-2022 SD-2.4.1.2 MATERIALS OF CONSTRUCTION: PROCESS COMPABILITY

The flowmeter materials of construction are capable of withstanding the process environment limited to the conditions given by the product documentation and are compatible with the CIP and SIP processes described in the product documentation, as per ASME BPE-2022 SD-2.4.1.2.

ASME BPE-2022 SD-2.4.2 CLEANABILITY

All process contact surfaces are cleanable and accessible to the cleaning solution as per ASME BPE-2022 SD-2.4.2.

ASME BPE-2022 SD-2.4.3 DRAINABILITY

All process contact surfaces are drained as per ASME BPE-2022 SD-2.4.3 and Table SD-2.4.3.1-1 if the installation requirements (3° slope) for 3A and EHEDG given by the product documentation are applied. For DN08 range and due to capillarity effect, the draining of the product shall be taken into account by the user application.

ASME BPE-2022 SD-2.4.4.2 EXTERIOR DESIGN

As per ASME BPE-2022 SD-2.4.4.2, the flowmeter exterior design fulfills the requirements as follows:

- (b) Finishes are compatible with hygienic cleaning operations,
- (d) Burrs and fluidic contact weld marks are removed,
- (i) Laser marking and/or labels are constructed from corrosion-resistant material,
- (k) Joints are impervious to moisture and cleaning agents,
- (l) Materials of construction of the electrical enclosure are cleanable and compatible with cleaning agents.

ASME BPE-2022 SD-2.4.4.3 SURFACE FINISHES

There are two process contact surfaces finishes that can be provided according to the ID number as per ASME BPE-2022 SD-2.4.4.3

- Surface designation SF4 15µinch (0.4µm) Mechanically and Electropolished as per Table SF-2.4.1-1
- Surface designation SF3 30µinch (0.8µm) Mechanically as per Table SF-2.4.1-1

Visual inspection acceptance criteria as per ASME BPE-2022 SF-2.2 based on internal procedure PRP 1000227516.

Surface roughness measurement acceptance criteria as per Table SF-2.4.1-1.

Electropolishing procedure according to ISO15730 based on internal procedure FST 1000271313.

Passivation procedure according to EN2516 (process class C2) based on internal procedure FST 1000271313.

A process contact surface finish certificate can be ordered.

ASME BPE-2022 SD-2.6 ANIMAL-DERIVED INGREDIENTS

The Flowmeter materials are as per ASME BPE-2022 SD-2.4.1.1 (see above). ADI/TSE/BSE free manufacturer declaration DIS1000591120 available on demand.

The instructions for safety and installation of the enclosed product documentation have to be observed.

ASME BPE Manufacturer Declaration

(EN)

ASME BPE-2022 APPENDIX G-3 CONTROL OF FERRITE CONTENT IN WELDS OF AUSTENITIC STAINLESS STEELS

The flowmeter welds ferrite content is controlled by the selection of heats of materials with high nickel to chromium ratios as per ASME BPE-2022 G-3 (d) and Table MM-2.1-1.

Conditions of use:

- Based on our Quality Management System according to ISO 9001 we declare that our products are manufactured and tested to the best of our knowledge and belief and according to the current state of the art.
- Observe the instruction manual and the data sheet.
- Do not operate the product outside the described limits.
- It is the responsibility of the client to determine whether the intended application complies with relevant requirements.

Triembach-au-Val, 7th November 2024

Marc Riedinger
Quality Manager

Stéphanie Dumollard
Product compliance

Document valid without signature