

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-21/0839
of 18 November 2021

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

FLOVAC Vacuum Interface Valves

Product family
to which the construction product belongs

Waste water systems

Manufacturer

FLOVAC Vacuum Systems-WKR BV
Industrieterrein Panningen 117
5981 NC Panningen
NIEDERLANDE

Manufacturing plant

FLOVAC Vacuum Systems-WKR BV
Industrieterrein Panningen 117
5981 NC Panningen

This European Technical Assessment
contains

6 pages including 2 annexes which form an integral part
of this assessment

This European Technical Assessment is
issued in accordance with Regulation (EU)
No 305/2011, on the basis of

EAD 180026-00-0704

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Specific Part

1 Technical Description of the product

The construction product includes the vacuum valve named "FLOVAC Vacuum Interface Valve". The vacuum valve is intended for use in wastewater systems (hereinafter referred to as the interface valve) and for installation in external vacuum wastewater systems that comply with the requirements of EN 16932-3.

The body of the interface valve is composed of four parts:

- the valve body and the upper parts consists of polypropylene,
- a pneumatically operated regulator and stub pipes to connect pulse tubes,
- a non-return valve,
- a sealing plunger.

The product is not covered by a harmonised technical specification.

Concerning product packaging, transport, storage, maintenance, replacement and repair it is the responsibility of the manufacturer to undertake the appropriate measures and to advise his clients on the transport, storage, maintenance, replacement and repair of the product as he considers necessary.

When leaving the factory, the product complies with the requirements of EN 16932-3.

The construction product is intact and fit for use with regard to installation and application.

It is assumed that the product will be installed according to the manufacturer's instructions or (in absence of such instructions) according to the usual practice of the building professionals.

2 Specification of the intended use according to the applicable European Assessment Document

The interface valve is intended for installation in external vacuum sewerage systems that comply with the requirements of EN 16932-3.

The product is intended for use in the upper space of vacuum collection chambers whose domestic wastewater flows by gravity from the sewerage system inside a building and whose lower part corresponds to a collection tank according to the schematic diagram in EN 16932-3, Figure 5 or 6, and is designed for a working life of 25 years after installation.

3 Performance of the product and references to the methods used for its assessment

3.1 Mechanical resistance and stability (BWR 1)

Essential characteristic	Performance
Resistance to external blows	Area A, TIR = 0%

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class E

3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Changes as a result of heating	150 °C
Interface operation	
-Minimum vacuum level	-18kPa
-Operation after immersion	Pass
-Free internal ball passage	78 mm

3.4 Aspects of durability linked with the Basic Works Requirements

Essential characteristic	Performance
Durability	700.000 cycles

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 180026-00-0704, the applicable European legal act is: 99/472/EC (EU), as amended by 2001/596/EC.

The system(s) to be applied is (are): [4]

For uses subject to regulations on reaction to fire the applicable AVCP systems are generally 1, 3 or 4 depending on the conditions defined in the said Decision. However, taking into account the provisions given in clause 2.2.2 only systems 3 and 4 apply for the products covered by this EAD.

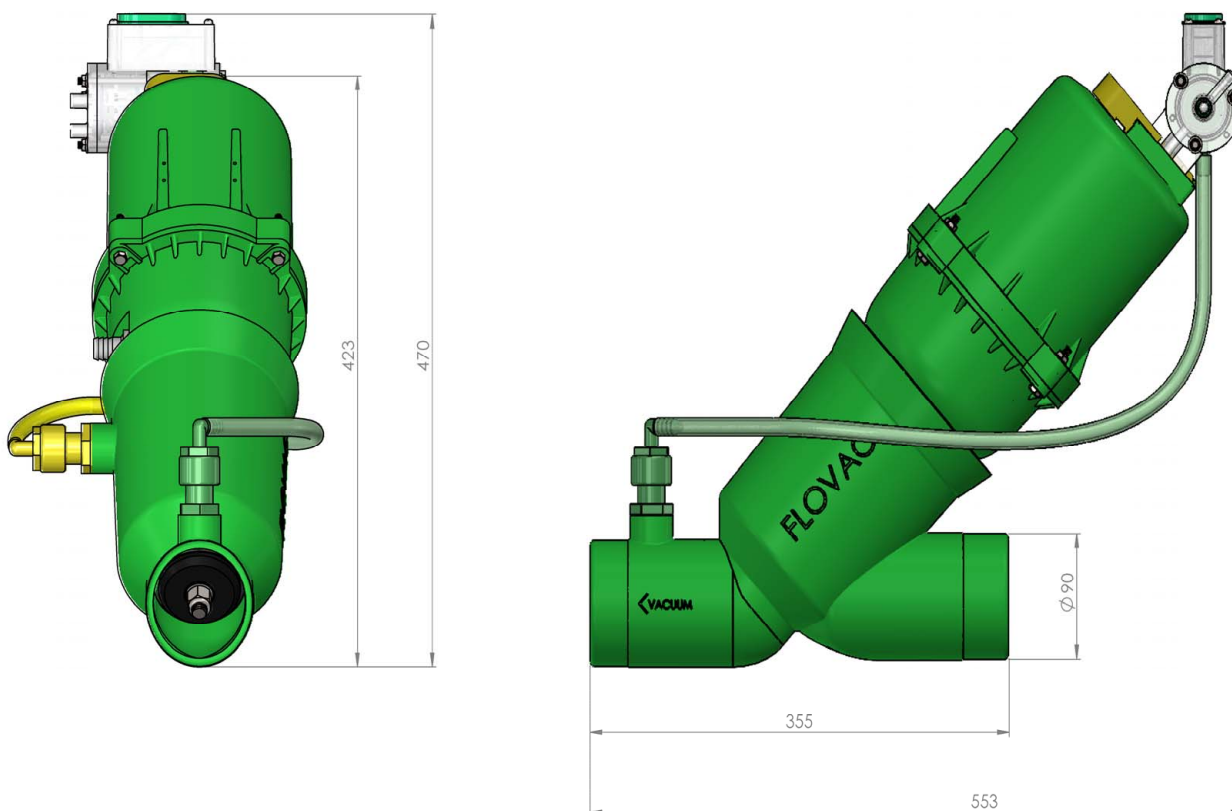
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 18. November 2021 by Deutsches Institut für Bautechnik

Ronny Schmidt
Head of Section

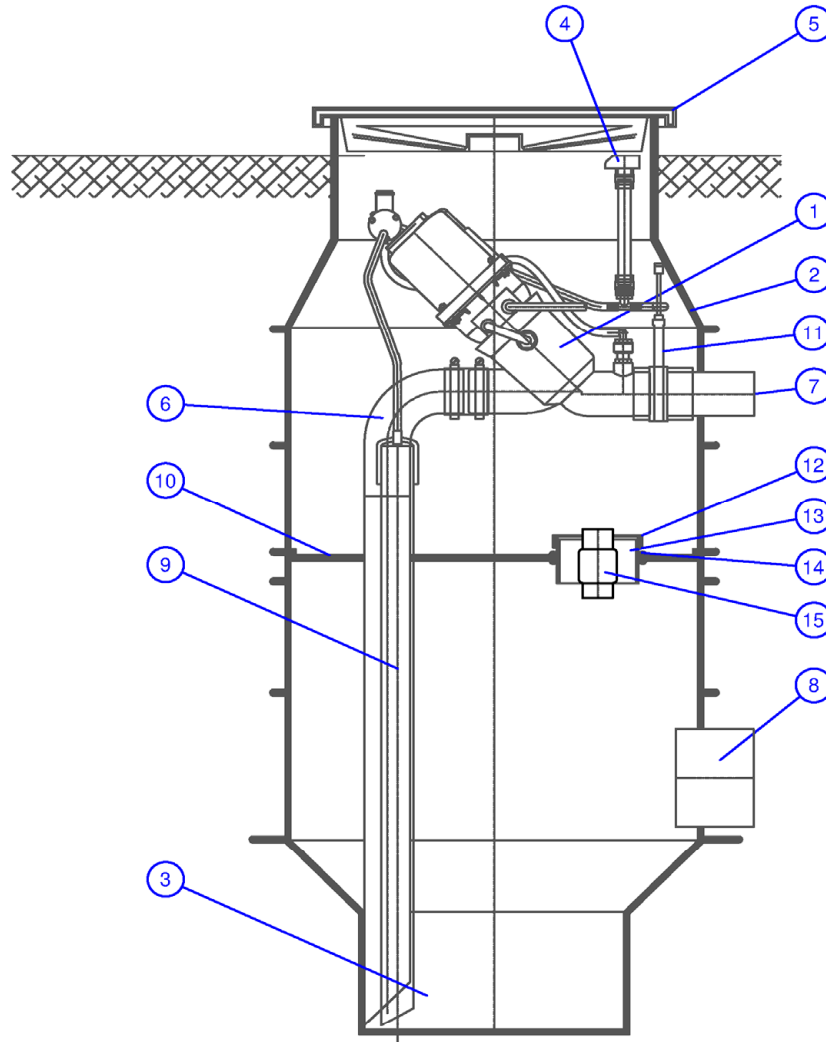
beglaubigt:
Samuel



FLOVAC Vacuum Interface Valves

Flovac valve dimensions

Annex 1



- 1 – Vacuum valve; 2 – Valve pit; 3 – Sewer collecting chamber; 4 – Atmospheric ventilation (internal); 5 – Valve pit cover; 6 – Suction pipe (d90); 7 – Vacuum line (d90); 8 – Gravitation sewer inlet; 9 – Level sensor pipe DN63; 10 – Partition wall; 11 – Isolation gate valve; 12 – Inspection cover; 13 – Inspection pipe; 14 – Grommet; 15 – Water drain

FLOVAC Vacuum Interface Valves

Schematic diagram

Annex 2