

PROTOCOL

ON THE ASSESSMENT OF PERFORMANCE OF THE PRODUCT



Czech

Registration No. 1017 – CPR – 13.120.208, Revision No. 1

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC, and in compliance with Commission Delegated Regulation (EU) No 568/2014, this protocol is issued for the construction product:

Non-return ball check valves intended for lifting plants

Type series: VAP

Types: VAP/G32, VAP/G40, VAP/G50, VAP/65, VAP/80, VAP/100

ZENIT Italia S.r.l.

Via dell'Industria 11, I-41018 San Cesario sul Panaro, Modena, Italy
Company registration No: IT03098700366

Place of production (manufacturing plant):

Zenit Pumps (China) Co., Ltd
26 Wupu Road, Shengpu District Suzhou Industrial Park 215126 - Jiangsu, China

On the basis of testing, calculations, tabulated values and documentation within system 3 according to Annex V 1.4 CPR, TÜV SÜD Czech s.r.o. assessed the relevant characteristics of the product described in Annex Z of the standard

EN 12050-4:2000

The number of pages of this Protocol inclusive the title-page: 2

Essential characteristics	Performance	Harmonised technical specification
Watertightness	Passed	EN 12050-4:2000, Art. 4
Functional effectiveness	Passed	EN 12050-4:2000, Art. 5
Noise level	NPD	EN 12050-4:2000, Annex A
Durability	Passed	EN 12050-4:2000, Art. 4, 6

This Protocol is a revision No. 1 of the Protocol No. 13.120.208, issued 14.05.2020.

Prague, date 08.04.2021



on behalf of Notified Body 1017
Pavla Nerandžičová
Head of Certification Department

1. Equipment specification

Purpose of use:	Installation in the piping and lifting plants (pumping stations) to prevent backflow of wastewater containing faeces and faecal-free wastewater
Limitations of use:	The limit is determined by the parameters and performance. Check valves are intended for installation and use in lifting plants assessed in accordance with EN 12050-1:2001 and EN 12050-2:2000.
Identification of the product:	Label according to Annex Z (Art. Z.3) EN 12050-4:2000 and in accompanying technical documentation
Technical specifications:	Used material for structure of body and cover is cast iron (EN-GJL-250) with rubber gasket preventing leakage. Diameter Nominal: DN32 ÷ DN100 Types VAP/G32, VAP/G40, VAP/G50 are equipped with threaded connection Types VAP/65, VAP/80, VAP/100 (PN10) are equipped with flange Can be installed in a horizontal or vertical position
Components:	Check valves are equipped with closing element preventing water backflow - ball coated with NBR rubber (sinking ball system)

2. Material submitted by the manufacturer

- Technical drawings
- Product description and instructions for installation
- Material certificates (for valves and ball)
- Technical documentation submitted within the project TÜV SÜD Czech s.r.o. No. 5401909770

3. Sampling the product

Requirements	Tested samples
Watertightness, Functional effectiveness, Durability	VAP/G32, VAP/G40, VAP/G50, VAP/65, VAP/80, VAP/100

Date of sampling: 27.04.2020; 14.12.2020

Place of sampling and testing: Zenit Pumps (China) Co., Ltd; 26 Wupu Road, Shengpu District Suzhou Industrial Park 215126 - Jiangsu, P.R. China (manufacturing plant)

Sampling made by: Jan Hořák (inspector of TÜV SÜD Czech s.r.o.) in co-operation with Lijun Xu (trained inspector of TÜV SÜD China, Shanghai branch)

4. Assessment of performance on the basis of tests, calculations, tabulated values, documentation

4.1. Assessment of performance on the basis of tests

Characteristics	Document	Evaluation
Watertightness	Test report No. 13.111.844 Test record ZZ 12050-4 (325-702) – Zenit_VAP	All requirements for tightness testing were fulfilled (no test limits were exceeded). Complies for the entire type series VAP
Functional effectiveness	Test report No. 13.111.844 Test record ZZ 12050-4 (325-702) – Zenit_VAP (test with floorcloths) Test report No. 13.514.363 Test record ZZ 12050-4 (325-702) – Zenit_VAP (test with sand)	Test floorcloths passed through all tested samples. Silica sand (0+8 mm) added in each litre of circulating water in tested samples did not result in breakdown of the lifting plant nor visible damage of the valves. Complies for the entire type series VAP

4.2. Assessment of performance on the basis of calculations

4.2.1. --

4.3. Assessment of performance on the basis of tabulated values or descriptive documentation

4.3.1. Durability - All construction materials and components used are in accordance with Annex B, EN 12050-4:2000 (valves made of cast iron).

5. Annex

No annexes

