**Bioinstitut d.o.o.****Laboratorijska djelatnost**

Dr. Rudolfa Steinera 7, HR-40000 Čakovec, Uprava: dir. dr.sc. Saša Legen D.V.M.,
OIB: 425 888 98 414, Matični broj: 3108589, Trg. sud u Varaždinu: 070002678,
Temeljni kapital: 34.640.600,00 kn uplaćen u cijelosti,
Žiro račun (IBAN): HR5824840081100327923, Raiffeisenbank d.d. Čakovec
Tel. 040 391 485 • Fax: 040 391 493 • laboratorij@bioinstitut.hr • www.bioinstitut.hr

17025·HAA



TEST

• Bioinstitut d.o.o. Laboratorijska djelatnost akreditirana je prema HRN EN ISO/IEC 17025:2017, Potvrda o akreditaciji br. 1073, Klasa: 383-02/19-30/035, Ur. broj: 569-05/5-23-14.

DOPUNA ISPITNOG IZVJEŠTAJA

Čakovec, 3.10.2024.

Broj izvještaja: **ZD 01524/24**

Kupac: **SAM CRO d.o.o.**
43290 GRUBIŠNO POLJE, Terezije Bernardete Banje 6

Naziv uzorka^a: **VENTIL KE83 u dimenziji 3/4" (proizvođač Slovarm)**

Datum uzorkovanja: -

Datum dostave: **20.9.2024.**

Početak analize: **27.9.2024.**

Završetak analize: **2.10.2024.**

Uzorkovao: **Kupac**

Dostavio: **isti**

IZJAVA O SUKLADNOSTI:

Temeljem čl. 9. Zakona o vodi za ljudsku potrošnju (NN 30/23) uzorak je prema ispitanim parametrima SUKLADAN odredbama čl. 34. Pravilnika o parametrima zdravstvene ispravnosti materijala i predmeta koji dolaze u dodir s vodom namijenjenom za ljudsku potrošnju (NN 64/2023) te je u skladu s Direktivom (EU) 2020/2184 Europskog parlamenta i Vijeća od 16. prosinca 2020. o kvaliteti vode namijenjene za ljudsku potrošnju (preinaka) (SL L 435, 23. 12. 2020.)

Voditelj Laboratorijske djelatnosti:

Mario Posedi, prof. fiz. i kem.

**Dostaviti:**

1. SAM CRO d.o.o., Hrvatska, 43290 GRUBIŠNO POLJE, Terezije Bernardete Banje 6
2. Arhiva

Napomena: Dopuna se odnosi na asortiman proizvoda proizvođača Slovarm.

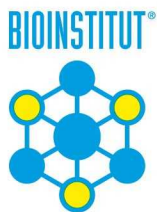
Broj izvještaja: ZD 01524/24 Strana 1/7

Metode označene zvjezdicom (*) akreditirane su prema zahtjevima norme HRN EN ISO/IEC 17025:2017 i navedene u potvrdi o akreditaciji HAA br. 1073. Metode označene s dvije zvjezdice (**) su iz fleksibilnog područja akreditacije prema zahtjevima norme HRN EN ISO/IEC 17025:2017. Za izjavu o sukladnosti primjenjuje se binarno pravilo odlučivanja temeljeno na jednostavnom prihvatanju, ukoliko nije određeno drugim propisima.

Podaci označeni slovom a (^a) su podaci koje je laboratorij dobio od kupca.

Ispitni izvještaj odnosi se samo na dostavljene uzorke i ne smije se umnožavati bez odobrenja Bioinstituta d.o.o., osim u cijelosti te se ne smije koristiti u reklamne svrhe. Faksimil je autentičan s originalnim potpisom ovlaštene osobe.

Oznaka: O-7.8-1

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**OPĆI PODACI**

Organoleptička svojstva:	uredna (nema utjecaja na bistrinu, boju, okus i miris ekstrakta)
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Opis uzorka^a: Ispitni izvještaj se odnosi na cijeli asortiman^(a) proizvoda Slovačkog proizvođača Slovarm izrađen od istog materijala:

Ventili

- KE230 u dimenzijama 3/8" – 1"
- KE231 u dimenzijama 3/8" – 4"
- KE240 u dimenzijama 3/8" – 5/4"
- KE241 u dimenzijama 3/8" – 2"
- KE261 u dimenzijama 1/2" – 2"
- KE248 u dimenzijama 1" – 5/4"
- KE280 u dimenzijama 1/2" – 5/4"
- KE280/R u dimenzijama 1/2" – 5/4"
- KE281 u dimenzijama 1/2" – 5/4"
- KE83 u dimenzijama od 1/2" – 2"
- KE125 u dimenzijama od 1/2" – 2"
- K270 u dimenziji 1/4"
- K508 u dimenzijama 1/2" – 3"
- K 1039 u dimenzijama 1/2" – 2"
- TE 66 u dimenzijama 3/8" – 3/4"
- TE 69 u dimenziji 1/2"x3/8"
- TE 225 u dimenziji 1/2"

MS spojnice

- KE 263 – KE 510 u dimenzijama 3/8" – 2"
- KE501CR – KE510CR u dimenzijama 3/8" – 2"

REZULTATI ISPITIVANJA

Laboratorij za kemiju hrane i POU					
Parametar	Metoda	Mjerna jedinica	Rezultat	MDK	Sukladnost
SPECIFIČNE MIGRACIJE TEŠKIH METALA					
Aluminij (Al)	**HRN EN ISO 17294-2:2023	µg/L	< 0,360	200	Da
Antimon (Sb)	**HRN EN ISO 17294-2:2023	µg/L	0,088	10	Da
Arsen (As)	**HRN EN ISO 17294-2:2023	µg/L	< 0,042	10	Da
Bakar (Cu)	**HRN EN ISO 17294-2:2023	µg/L	< 0,046	2000	Da
Kadmij (Cd)	**HRN EN ISO 17294-2:2023	µg/L	0,047	5	Da
Olovo (Pb)	**HRN EN ISO 17294-2:2023	µg/L	< 0,005	10	Da

Broj izvještaja: ZD 01524/24 Strana 2/7

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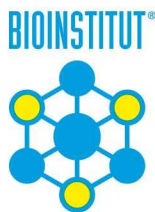
Oznaka: O-7.8-1

Parametar	Metoda	Mjerna jedinica	Rezultat	MDK	Sukladnost
Nikal (Ni)	**HRN EN ISO 17294-2:2023	µg/L	< 0,065	20	Da
Mangan (Mn)	**HRN EN ISO 17294-2:2023	µg/L	0,018	50	Da
Selen (Se)	**HRN EN ISO 17294-2:2023	µg/L	< 0,034	20	Da
Željezo (Fe)	**HRN EN ISO 11885:2010	µg/L	< 5	200	Da
Krom (Cr)	**HRN EN ISO 17294-2:2023	µg/L	< 0,030	50	Da
Molibden (Mo)	**HRN EN ISO 17294-2:2023	µg/L	0,008	20	Da
Kositar (Sn)	**HRN EN ISO 17294-2:2023	µg/L	0,184	6000	Da
Cink (Zn)	**HRN EN ISO 17294-2:2023	µg/L	< 0,300	3000	Da
Titan (Ti)	**HRN EN ISO 11885:2010	µg/L	< 1	15	Da

MDK - maksimalno dopuštena količina

MDK - prema zakonskim propisima navedenim u izjavi o sukladnosti.

Voditeljica Laboratorija za ekologiju:
 dr.sc. Teuta Tompić, dipl.ing.



Bioinstitut d.o.o.

Laboratorijska djelatnost

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 Dolná 1259/2, 907 01 Myjava, Slovenská republika IČO: 35 792 680	SK DECLARATION OF PERFORMANCE No. 1a/2024 In compliance with Act No. 133/2013 Coll. of Laws on construction products and on amendments to certain Laws.
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1. Identification and commercial name of the product: **Fittings for water pipes**
2. TYPE, number of production supply or serial number, or other element allowing the identification of the construction product:

KE 230	Ball valve	from DN 10 to DN 25
KE 231	Ball valve	from DN 10 to DN 100
KE 240	Ball valve	from DN 10 to DN 32
KE 241	Ball valve	from DN 10 to DN 50
KE 250	Ball valve	from DN 10 to DN 25
KE 251	Ball valve	from DN 10 to DN 50
KE 261	Ball valve	from DN 15 to DN 50
K-246	Ball valve	from DN 25 to DN 32
K-248	Ball valve	from DN 25 to DN 32
TE-66	Ball valve, corner	from DN 10 to DN 20
TE 225	Ball valve, lever	from DN 15
KE-280	Ball valve	from DN 15 to DN 32
KE-280/R	Ball valve	from DN 15 to DN 32
KE-281	Ball valve	from DN 15 to DN 32
KE-281/R	Ball valve	from DN 15 to DN 32
TE-67	Corner valve	from DN 10 to DN 15
TE-69	Corner valve, combined	DN 15× DN 10
K-83	Shut-off valves, straight	from DN 10 to DN 50
K 125	Shut-off valves, straight with drainage	from DN 15 to DN 50
K-130	Valves to mason	DN 15 to DN 20
K-181	Main valve, straight	from DN 20 to DN 40
K-1039	Reverse valve	from DN 15 to DN 50
K-3020	Reverse flap	from DN 15 to DN 40
K-508	Inclined filter	from DN 15 to DN 80
K-5083	Inclined valve	from DN 15 to DN 40
K-5085	Inclined valve with drainage	from DN 15 to DN 40
K-5087	Inclined valve with reverse flap	from DN 15 to DN 25
K-5088	Inclined valve with reverse flap and with drainage	from DN 15 to DN 25
K-5089	Inclined valve with reverse flap with drainage and manometer	DN 25
K-11, K-12	Sliders	from DN 25 to DN 32
K-270	Drain valve	DN 8
KE-270	Drain valve	DN 8
K-1039 F	Filter for suction basket	from DN 15 to DN 50
K-247, K-249	Wall mount	DN 15/20
K-263,	Extension	from DN 15×10 to 100, DN 20×10 to 40
KE-263 Cr	Extension	from DN 15×10 to 100, DN 20×10 to 40
K-279	Threaded coupling	DN 25
V-4300	Threaded joint, straight	from DN 10 to DN 50
VE-4300	Threaded joint, straight	from DN 10 to DN 50
V-4301	Threaded joint, corner	from DN 10 to DN 50
VE-4301	Threaded joint, corner	from DN 10 to DN 50
V-4302	Threaded coupling	from DN 10 to DN 32
VE-4302	Threaded coupling	from DN 10 to DN 25
K-501	Socket	from DN 10 to DN 50

SK Declaration of performance - Fittings for water pipes no. 1a/2024

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Broj izvještaja: ZD 01524/24 Strana 4/7

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Podaci označeni slovom a (a) su podaci koje je laboratorij dobio od kupca.

Ispitni izvještaj odnosi se samo na dostavljene uzorke i ne smije se umnožavati bez odobrenja Bioinstituta d.o.o., osim u cijelosti te se ne smije koristiti u reklamne svrhe. Faksimil je autentičan s originalnim potpisom ovlaštene osobe.

Oznaka: O-7.8-1

KE-501 Cr	Socket	from DN 10 to DN 50
K-502	Reduction	from DN 8/10 to DN 32/40
KE-502 Cr	Reduction	from DN 8/10 to DN 32/40
K-503	Nipple	from DN 10 to DN 50
KE-503 Cr	Nipple	from DN 10 to DN 50
K-504	Elbow	from DN 10 to DN 50
KE-504 Cr	Elbow	from DN 10 to DN 50
K-505	Elbow	from DN 10 to DN 50
KE-505 Cr	Elbow	from DN 10 to DN 50
K-506	T-piece	from DN 10 to DN 50
KE-506 Cr	T-piece	from DN 10 to DN 50
K-507	Plug	from DN 10 to DN 50
KE-507 Cr	Plug	from DN 10 to DN 50
KE-509 Cr	Y-coupling	DN 15
K-510	Plug	from DN 10 to DN 50
KE-510 Cr	Plug	from DN 10 to DN 50
K-287	Coupling	from DN 20 to DN 50
K-272	Plug	DN 8
TE-233/I, II	Extension	DN 15
TE-233 A/I	Extension	DN 15
T-213	Connecting adjustage	L-80, 95, 115
TE-2594	Etage connector	DN 15
K-836	Union nut	from DN 10 to DN 32
P-L-W	Union nut	od G3/8" do G 2"
K-130-01	Wall mount	DN 15
	Set for mason	

3. Stated Slovak standards referred to the product (mark, year of issue and name):
STN EN 13828:2004 - Building valves. Manually operated copper alloy and stainless steel ball valves for potable water supply in buildings. Tests and requirements.
STN 13 7100:1963
STN 13 7100:1963/a: 1965
STN 13 7100:1963/b:1988 - Small fittings. General technical rules.
STN EN 1213:2004 Building valves. Copper alloy stop valves for potable water supply in buildings. Tests and requirements.
Decree of the MZ SR no. 247/2017 Coll. which establishes details on drinking water quality, drinking water quality control, monitoring program and risk management in drinking water supply as amended by decree no. 97/2018 Coll.
4. SK technical assessment, if it was issued for the product (mark and name) and the name of the authorized person who issued it:
SK TP – 19/0036- version 01 of 06/05/2019 issued by TSÚS, n.o. Bratislava, authorized person TP04.
5. The intended applications of the product in accordance with the applicable specified standard or SK technical assessment:
Fittings for water pipes – ball valves, corner valves, shut-off valves, valves to mason, drain valves, main valve, reverse valve, reverse flap, inclined filter, inclined valves, sliders, garden valve, drainage valve and connection accessories.
The fittings are designed for the distribution of drinking and utility water.
6. Commercial name, location address, registration number of producer and production place:
Producer : **SLOVARM, a.s., Dolná 1259/2, 907 01 Myjava, Slovak Republic**
IČO: 35 792 680
Production place: **SLOVARM, a.s., Dolná 1259/2, 907 01 Myjava, Slovak Republic**
SLOVARM, a.s., Dolná 1096/15, 907 01 Myjava, Slovak Republic

SK Declaration of performance - Fittings for water pipes no. 1a/2024

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7. Manufacturer's authorized representative: not applicable

8. Asserted system or systems of parameter assessment:

The product is according to Annex no. 1 of the MDVRR SR Decree No. 162/2013 Coll as amended by decree No. 177/2016 Coll. classified in group 3407 - according to the I+ system. The parameter assessment system is carried out according to §7 par. 2 letters a) of Act No. 133/2013 Coll. on construction products and on amendments to certain laws, as amended.

9. Označenie SK certifikátu Designation SK of certificate (s) and date (s) of issue, when it (they) was (were) issued and name of the authorized person who has issued it (them):

SK certificate of conformity No. SK03-ZSV-0625 from 18.9.2023 issued by TSÚ š.p., PIEŠŤANY, authorized person SK03.

10. Declared parameters:

An essential feature	Parameter	Test report number and laboratory
Realized according	Part no. 5 STN EN 13828:2004	Visual assessment – accepted Protocol no. 182400008/314 – lab no. 1
Connection dimensions	Part no. 4.4 STN EN 1213:2004	According to the part no.: 4.4 STN EN 1213:2004 Protocol no. 182400008/314 – lab no. 1
Tightness	Part no. 7.4.1 STN EN 13828:2004	According to the part no.: 7.3.1 STN EN 1213:2004, part no. 6.3 STN EN 13828:2004- accepted Protocol no. 182400008/314 – lab no. 1
Overpressure resistance	Part no. 7.4.2.3; STN EN 13828:2004, Part no. 7.3.2.3; STN EN 1213:2004	According to the part no. 7.4.2.1 STN EN 13828:2004, Part no. 7.3.2.1 STN EN 1213:2004 - accepted Protocol no. 182400008/314 – lab no. 1
Torque and bending moment	Part no. 7.2.2.3; STN EN 1213:2004, Part no. 7.2; STN EN 13828:2004, Part no. 7.2.2.2; STN EN 1213:2004, Part no. 7.2; STN EN 13828:2004,	According to the part no. 7.2.1.3 STN EN 1213:2004, part no. 7.2.2 STN EN 1213:2004- accepted Protocol no. 182400008/314 – lab no. 1
Back suction protection	STN EN 1717:2002	There is no back suction in the sense STN EN 1717:2002-accepted Protocol no. 182400008/314 – lab no. 1
Product marking	Part no. 9; STN EN 1213:2004, Part no. 8; STN EN 13828:2004	Visual assessment – accepted Protocol no. 182400008/314 – lab no. 1
Suitability for contact with drinking water	Attachment no. 1 of Decree No. 247/2017 Coll as amended by decree no. 97/2018 Coll.	Protocol no. 18/01205 - lab . no. 2

No. of the laboratory	Name and address of testing laboratory
1.	Technický skúšobný ústav Piešťany, š.p., accredited laboratory of technical equipments of buildings and structures, Krajinská cesta 2929/9, 92101 Piešťany, Slovak Republic
2.	LABEKO, s.r.o. ekoanalytické laboratória, accredited laboratory, Krajinská 2929/9, 92101 Piešťany, Slovak Republic

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11. **Manufacturer's declaration:**

The manufacturer declares that the product defined in points 1 and 2 has parameters of essential characteristics according to point 10.

12. This SK declaration of performance is issued under the sole responsibility of the manufacturer stated in the point 6.

Assigned for and on behalf of the manufacturer:

In Myjava 6.6.2024

SLOVARM, a.s.
Dolná 1259/2, 907 01 Myjava
IČO: 35 792 680
IČ DPH: SK2020257118
Anna Ušiaková
Head of Quality Department
SLOVARM, a.s.


Radovan Pobočík
General Director
SLOVARM, a.s.

————KRAJ ISPITNOG IZVJEŠTAJA————

Broj izvještaja: ZD 01524/24 Strana 7/7

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Oznaka: O-7.8-1