



EMI-TÜV

No. CA-2099402-3

Product tests on sample called „P 513 Alkyd Primer/Alkyd Base Satin, RAL 8012”

Client:

Policolor SA
in Bucharest, 98th Timisoara Blv, 6th district
Romania.

Based upon No. R-2099402, we hereby attest that the sample

P 513 Alkyd Primer 80 µm /Alkyd Base Satin 80 µm, paint system 160 µm thickness

distributed by Policolor SA., according to our tests

COMPLY WITH

the following classification according to the regarding standards:

Corrosion category: C3 Medium (M)

/ Urban and industrial atmospheres, moderate sulphur dioxide pollution; coastal area with low salinity. If the cleanliness of the steel surface at least Sa2 ½ /

Applied legislation, regulations, standards:

EN ISO 12944-1:2018, EN ISO 12944-6:2018 Corrosion protection of steel structures by protective paint systems, ISO 8501-1

Valid until: 08/08/2026 or the change of product, production technology and concerning regulation.

Budapest, 08/08/2023




Zsolt Szépvölgyi
Head of Department
EMI-TÜV SÜD Kft.
KERMI Departmen

Remark: The result relates only to the items tested. No extract, abridgment or abstraction from a test report / attestation may be published or used to advertise a product without the written consent of the Head of EMI-TÜV SÜD Ltd., KERMI Department. The results contained in the test report apply only to the particular samples tested and to the specific test carried out.

EMI-TÜV SÜD Kft., KERMI Department,
H-2000, Szentendre, Dózsa György str. 26., Telephone: +36 26 501

ZERTIFIKAT

CERTIFICADO

CERTИФИКАТ

認證證書

CERTIFICATE

ZERTIFIKAT

ATTESTATION



ÉMI-TÜV

No. CA-2099402-2

Product tests on sample called „P 513 Alkyd Primer/5001 Alkyd Base Satin”

Client:

Policolor SA
in Bucharest, 98th Timisoara Blv, 6th district
Romania.

Based upon No. R-2099402, we hereby attest that the sample

P 513 Alkyd Primer 60 µm / 5001 Alkyd Base Satin 40 µm, paint system 100 µm thickness

distributed by Policolor SA., according to our tests

COMPLY WITH

the following classification according to the regarding standards:

Corrosion category: C3 Low (L)

/Urban and industrial atmospheres, moderate sulphur dioxide pollution; coastal area with low salinity. If the cleanliness of the steel surface at least Sa2 ½ /

Applied legislation, regulations, standards:

EN ISO 12944-1:2018, EN ISO 12944-6:2018 Corrosion protection of steel structures by protective paint systems, ISO 8501-1

Valid until: 08/08/2026 or the change of product, production technology and concerning regulation.

Budapest, 08/08/2023



Zsolt Szépvölgyi
Head of Department
ÉMI-TÜV SÜD Kft.
KERMI Department

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ÉMI-TÜV SÜD Kft., KERMI Department,
H-2000, Szentendre, Dózsa György str. 26., Telephone: +36 26 501

TÜV®



**BUREAU
VERITAS**

CERTIFICATE OF CONFORMANCE

Nº. SOF/23/0121

Dated: 04.05.2023

1. Product type:

Water based and solvent based paints and coating products

2. Intended use/es:

Interior and Exterior painting of walls and ceilings, decoration and protection of wood and metal.

3. Manufacturer:

**ORGACHIM JSC
bul. "Treti Mart" 21, 7000 Western Industrial Zone, Ruse**

4. Systems of assessment and verification of constancy of performance:

Inspection during production processes and witness of laboratory evaluation for performance parameters. Bureau Veritas Inspection Report SOF/23/0121

5. Inspected products and compliance with internal manufacturer specifications are stated in Annex to this certificate.

Performance parameters of the products mentioned above were found in compliance with declared in manufacturer Technical Specifications stated in Annex to this certificate. Using the information compiled during our onsite production inspection and witnessing laboratory tests, we have draw up this certificate of conformance. Inspection details are stated in Bureau Veritas report SOF/23/0121.

BUREAU VERITAS BULGARIA EOOD

Kiril Seksenov – Industry Manager





**BUREAU
VERITAS**

CERTIFICATE OF CONFORMANCE

Nº. SOF/23/0121

Dated: 04.05.2023

ANNEX
to Certificate Of Conformance SOF/23/0121

Product Name	Packages	Manufacturer Technical Specification
LEKO Interior Paint	1L; 2.5L; 4L; 8.5L; 15L	TS-ORG-0001
LEKO Interior Paint in colours	2.5L	TS-ORG-0001
LEKO Fassagen Ultra	1L; 2.5L; 4L; 8.5L; 15L	TS-ORG-0002
LEKO Hypoallergenic Paint	2.5L; 4L	TS-ORG-0626
LEKO Alkyd primer	0.900KG; 5KG; 25KG	TS-ORG-0009
LEKO Yacht Lacquer	0.650L; 2.5L	TS-ORG-0017
LEKO Impregnation Wood Primer	0.750L; 3L; 18L	TS-ORG-0019
LEKO Azure varnish	0.650L; 2.5L; 18L; 20L	TS-ORG-0256
LEKO Azure lacquer for wood	0.650; 2.5L; 18L; 20L	TS-ORG-0019
LEKO paint for humid premises	1L; 2.5L; 4L	TS-ORG-0173
LEKO Interior Paint with silver ions	2.5L; 4L; 8.5L; 15L	TS-ORG-0174
LEKO Universal Primer for metal surfaces	0.900 KG; 5KG; 25KG	TS-ORG-0176
LEKO Fast dry enamel super gloss	0.650L; 2.5L	TS-ORG-0180
LEKO Alkyd paint gloss	0.650L; 2.5L; 5L	TS-ORG-0178
LEKO Alkyd Paint Satin	0.650L; 2.5 L	TS-ORG-0213
CASA BELLA alkyd paint gloss	0.750L; 2.5L; 5L	TS-ORG-0178
CASA BELLA Interior Paint	2.5L; 4L; 8.5 L; 15L	TS-ORG-0082
CASA BELLA Exterior Paint	4L; 15L	TS-ORG-0205
DEKO T8500 Silicone plaster D1 / F10 PAS	25KG	TS-ORG- 0227
DEKO T8500 Silicone plaster D1.5 / F20 PAS	25KG	TS-ORG- 0227
DEKO T8500 Silicone plaster D2 / F30 PAS	25KG	TS-ORG- 0227
DEKO T8500 Silicone plaster B2 / R15 PAS	25KG	TS-ORG- 0039
DEKO T8500 Silicone plaster B3 / R25 PAS	25KG	TS-ORG- 0039
DEKO T8300 Polymer plaster D1.5 / F20 PAS	25KG	TS-ORG- 0227
DEKO T8300 Polymer plaster D2 / F30 PAS	25KG	TS-ORG- 0227
DEKO T8300 Polymer plaster B2 / R15 PAS	25KG	TS-ORG- 0039
DEKO T8300 Polymer plaster B3 / R25 PAS	25KG	TS-ORG- 0039
DEKO G8300 Silicone primer for plasters PAS	5KG; 25KG	TS-ORG- 0228




TEST REPORT



ÉMI-TÜV

Add value.
Inspire trust.

Name of the client:
address:

Policolor SA
in Bucharest, 98th Timisoara Blv,
6th district
Romania

ÉMI-TÜV SÜD Kft.
Central Laboratory
KERMI Department

Budapest, 28/06/2023

Test report No.:
R-1804395

1/8

Date of application:

20/01/2023

Description of the sample:

PF02-Alkyd primer +9016 (40+60 µm) C2 med
P513 Alkyd primer +5001 (60+40 µm) C3 low
P513 Alkyd primer +5001 (80+80 µm) C3 med

Subject of application:

Corrosion test C2 medium – C3 low/medium /
EN ISO 12944-6:2018

Receipt date of test samples:

10/06/2023

Date of testing:

10/06/2023 – 26/06/2023

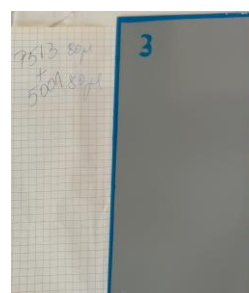
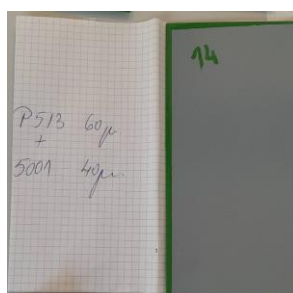
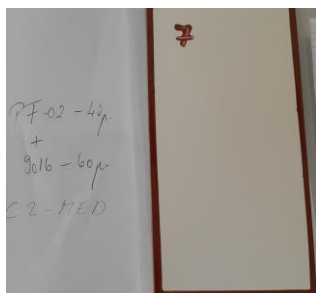
Producer of tested samples:

Policolor SA

Description of tested samples:

The client documentation contains the detailed
product description.

Name and photo of test samples:



Remark: The result relates only to the items tested

No extract, abridgment or abstraction from a test report may be published or used to advertise a product without the written consent of the Director of ÉMI-TÜV SÜD Ltd KERMI Department. The results contained herein apply only to the particular sample tested and to the specific test carried out and not to samples of the current production line.

Rn.: 13-09-072640
VAT nr: 10687105-2-13
Bank: UniCredit Bank Hungary Zrt.
10918001-00000068-72970003

Managing Director
Miklós Cseresznyák

www.emi-tuv.hu

TÜV®

ÉMI-TÜV SÜD Kft.
Central Laboratory
KERMI Department
H-2000 Szentendre
Dózsa György út 26.

TEST RESULTS

Size of steel used for the test: 100x200x1 mm
 Application: by spraying
 Corrosion assessment: immediately
 Adhesion: 24 hours after reconditioning
 Conditioning time, day: 7+7 days
 Drying / curing conditions: 23 ± 2 ° C, 50 ± 5 rel%
 Degree of corrosion to be achieved: Indoor C2 - medium (7-15 years)

1. PF-02 Alkyd Primer/ Alkyd Base glossy Coating system properties: white 9016

1st SYSTEM C2 medium			
Number of Layer	DFT (dry film thickness) in μm	Chemical base	Orgachim product's name
1 st Layer	40	Alkyd	PF-02 Alkyd Primer
2 nd Layer	60	Alkyd	Alkyd-based enamel glossy

Test parameters	Test results			Test methodes
	1	2	3	
Layer thickness, μm :	102 ± 1	104 ± 1	101 ± 1	EN ISO 2808:2020
Appearance: steel surface	white decorative free of cracking coating			visual
Gloss, 60°:	41,8	18,5	19,8	EN ISO 2813:2000
Adherence, grade: on steel surface	0	0	0	EN ISO 2409:2013
	1,4 N/mm ²	1,3 N/mm ²	1,4 N/mm ²	EN ISO 4624:2016

Properties of the coating after 48 hours of water vapor condensation: MSZ EN ISO 6270:2001

Test parameters	Test results			Test methodes
	1	2	3	
Appearance: on steel surface	white in color, silk matt, even			visual
Gloss, 60°:	41	40,8	40,9	EN ISO 2813:2000
Adherence, grade: on steel surface	0	0	0	EN ISO 2409:2021
Adherence, N/mm ² : on steel surface	0,8	0,8	0,9	EN ISO 4624:2016
Blasen:	5 (S3)	5(S3)	5(S3)	EN ISO 4628-2:2003
Rusting:	Ri0	Ri0	Ri0	EN ISO 4628-3:2003
Cracking:	0(S0)	0(S0)	0(S0)	EN ISO 4628-4:2003
Flaking:	0(S0)	0(S0)	0(S0)	EN ISO 4628-5:2003
Delamination and corrosion around a scribe	grade 1 — Very slight	grade 1 — Very slight	grade 1 — Very slight	EN ISO 4628-8:2003

Size of steel used for the test: 100x200x1 mm
 Application: by spraying
 Corrosion assessment: immediately
 Adhesion: 24 hours after reconditioning
 Conditioning time, day: 7+7 days days
 Drying / curing conditions: 23 ± 2° C, 50 ± 5 rel%
 Degree of corrosion to be achieved: Outdoor C3 - low (7 years)

2. P513 + 5001 (60+40 µm) C3 low Coating system properties: 7001

2st SYSTEM			
Number of Layer	DFT (dry film thickness) in µm	Chemical base	Policolor product's name
1 st Layer	60	Alkyd	P513-Alkyd primer
2 nd Layer	40	Alkyd	E 5001-Alkyd enamel

Test parameters	Test results			Test methodes
	1	2	3	
Layer thickness, µm:	105 ± 1	103 ± 1	105 ± 1	EN ISO 2808:2020
Appearance: steel surface	Grey decorative free of cracking coating			visual
Gloss, 60°:	73,7	72,9	73,5	EN ISO 2813:2000
Adherence, grade: on steel surface	0	0	0	EN ISO 2409:2013
Adherence, N/mm ² : on steel surface	1,3	1,5	1,5	EN ISO 4624:2016

Properties of the coating after 48 hours of water vapor condensation: MSZ EN ISO 6270:2001

Test parameters	Test results			Test methodes
	1	2	3	
Appearance: on steel surface	Grey in color, high gloss, even			visual
Gloss, 60°:	69,1	69,0	69,2	EN ISO 2813:2000
Adherence, N/mm ² : on steel surface	1,2	1,3	1,3	EN ISO 4624:2016
Blasen:	0 (S0)	0(S0)	0(S0)	EN ISO 4628-2:2003
Rusting:	Ri0	Ri0	Ri0	EN ISO 4628-3:2003
Cracking:	0(S0)	0(S0)	0(S0)	EN ISO 4628-4:2003
Flaking:	0(S0)	0(S0)	0(S0)	EN ISO 4628-5:2003
Delamination and corrosion around a scribe	grade 1 — Very slight	grade 1 — Very slight	grade 1 — Very slight	EN ISO 4628-8:2003

Coating system properties after 120 hours of neutral salt spray:

Testing according to MSZ EN ISO 9227: 2012 5.2 standard / NSS method

Test parameters	Test results			Test methodes
	1	2	3	
Appearance: on steel surface	Grey in color, high gloss, even			visual
Gloss, 60°:	71,2	71,3	71,0	EN ISO 2813:2000
Adherence, grade:	0	0	0	EN ISO 2409:2021
Adhesion, Mpa: fracture image	1,0 A/B	1,0 A/B	1,1 A/B	EN ISO 4624:2003
Blasen:	0 (S0)	0(S0)	0(S0)	EN ISO 4628-2:2003
Rusting:	Ri0	Ri0	Ri0	EN ISO 4628-3:2003
Cracking:	0(S0)	0(S0)	0(S0)	EN ISO 4628-4:2003
Flaking:	0(S0)	0(S0)	0(S0)	EN ISO 4628-5:2003
Delamination and corrosion around a scribe	grade 2 — Slight	grade 2 — Slight	grade 2 — Slight	EN ISO 4628-8:2003

Size of steel used for the test: 100x200x1 mm
 Application: by spraying
 Corrosion assessment: immediately
 Adhesion: 24 hours after reconditioning
 Conditioning time, day: 7+7 days days
 Drying / curing conditions: 23 ± 2°C, 50 ± 5 rel%
 Degree of corrosion to be achieved: Outdoor C3 - medium (7-15 years)

P513 + 5001 (60+40 µm) C3 low Coating system properties: 7001

3st SYSTEM			
Number of Layer	DFT (dry film thickness) in µm	Chemical base	Orgachim product's name
1 st Layer	80	Alkyd	P513-Alkyd primer
2 nd Layer	80	Alkyd	E 5001-Alkyd enamel

Test parameters	Test results			Test methodes
	1	2	3	
Layer thickness, µm:	157 ± 1	162 ± 1	158 ± 1	EN ISO 2808:2020
Appearance: steel surface	Grey color, decorative free of cracking coating			visual
Gloss, 60°:	78,1	78	77,7	EN ISO 2813:2000
Adherence, grade: on steel surface	0	0	0	EN ISO 2409:2013
Adhesion, Mpa: fracture image	1,3 A/B	1,4 A/B	1,3 A/B	EN ISO 4624:2003

Properties of the coating after 120 hours of water vapor condensation: MSZ EN ISO 6270:2001

Test parameters	Test results			Test methodes
	1	2	3	
Appearance: on steel surface	Grey in color, gloss, even			visual
Gloss, 60°:	73,4	72,9	73,3	EN ISO 2813:2000
Adhesion, Mpa: fracture image	0,5 A/B	0,6 A/B	0,5 A/B	EN ISO 4624:2003
Blasen:	4 (S3)	4(S3)	4(S3)	EN ISO 4628-2:2003
Rusting:	Ri0	Ri0	Ri0	EN ISO 4628-3:2003
Cracking:	0(S0)	0(S0)	0(S0)	EN ISO 4628-4:2003
Flaking:	0(S0)	0(S0)	0(S0)	EN ISO 4628-5:2003
Delamination and corrosion around a scribe	grade 1 — Very slight	grade 1 — Very slight	grade 1 — Very slight	EN ISO 4628-8:2003

Properties of the coating after 240 hours of water vapor condensation: MSZ EN ISO 6270:2001

Test parameters	Test results			Test methodes
	1	2	3	
Appearance: on steel surface	Grey in color, gloss, even			visual
Gloss, 60°:	73,4	73,2	73,4	EN ISO 2813:2000
Adhesion, Mpa: fracture image	0,5 A/B	0,6 A/B	0,5 A/B	EN ISO 4624:2003
Blasen:	0 (S0)	0(S0)	0(S0)	EN ISO 4628-2:2003
Rusting:	Ri0	Ri0	Ri0	EN ISO 4628-3:2003
Cracking:	0(S0)	0(S0)	0(S0)	EN ISO 4628-4:2003
Flaking:	0(S0)	0(S0)	0(S0)	EN ISO 4628-5:2003
Delamination and corrosion around a scribe	grade 1 — Very slight	grade 1 — Very slight	grade 1 — Very slight	EN ISO 4628-8:2003

The sample was removed by the payer after the tests.



.....
Magasházy György
 Expert

.....
Kárpáti Szilveszter
 Expert

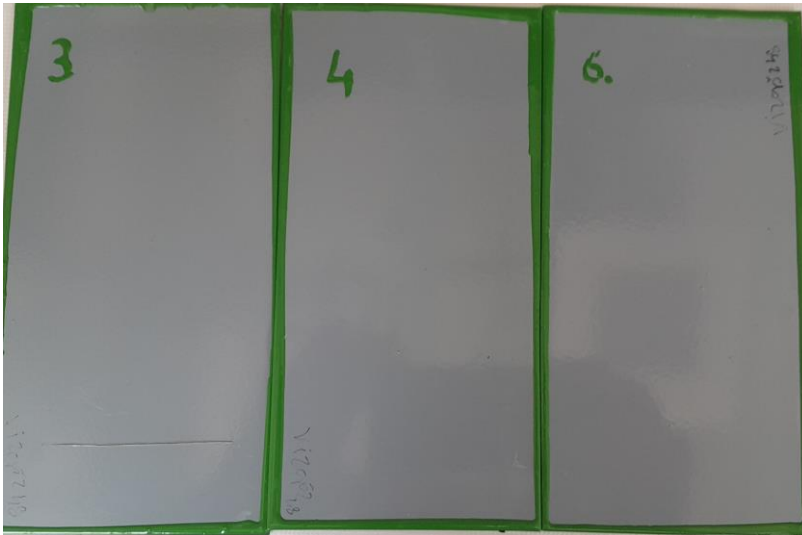
Szépvolgyi Zsolt
 Head of KERMI Department

Photo Annex:**1 coating system:**

After 48 hours of water vapor condensation, the properties of the coating



2 coating system: After 48 hours of water vapor condensation, the properties of the coating

**2 coating system:**

After 120 hours of neutral salt spray, the properties of the coating



3 coating system: After 120 hours of water vapor condensation, the properties of the coating



3 coating system:
After 240 hours of neutral salt spray, the properties of the coating



CENTRUL TEHNIC PENTRU SECURITATE
INDUSTRIALĂ ȘI CERTIFICARE SRL



CERTIFICAT DE CONFORMITATE A CONTROLULUI PRODUCȚIEI ÎN FABRICĂ

Nr. de înregistrare **OCP_{GSP} MD 015 11A 49597-23**

Data emiterii **01 februarie 2023** Valabil pînă la **01 februarie 2026**

ORGANISMUL DE CERTIFICARE A PRODUSELOR CU GRAD SPORIT DE PERICOL
din cadrul SRL "Centrul Tehnic pentru Securitate Industrială și Certificare", certificat de acreditare OCpr-015,
MD-2001, mun. Chișinău, str. Melestiu, 22/A, tel.: 022208156, 022208186

PRIN PREZENTUL DOCUMENT SE CONFIRMĂ FAPTUL, CĂ PRODUSELE IDENTIFICATE ASTFEL:

DENUMIREA / DESCRIEREA

Electrozi înveliți pentru sudarea manuală cu arc a oțelurilor,
mărcile comerciale: SUPERTIT FIN, SUPERBAZ, SUPRANOX 308L, STARINOX 308L,
clasificări - conform anexei (4 poziții),
gama de diametre de la 2mm pîna la 5mm,
producție în serie

Codul NC
8311

SUNT CONFORME CU CERINȚELE OBLIGATORII STABILITE ÎN

Reglementarea Tehnică cu privire la cerințele minime pentru comercializarea produselor pentru construcții
(HG RM nr.913 din 25.07.2016), SM EN 13479:2017

PRODUCĂTOR

DUCTIL SA
120068, Buzău, Bulevardul Industriei, 7, România

Codul țării
RO

CLIENT

DUCTIL SA
120068, Buzău, Bulevardul Industriei, 7, România

Codul IDNO

CERTIFICATUL ESTE ELIBERAT ÎN BAZA

Raportului de evaluare a controlului producției în fabrică nr.353 din 01.02.2023.
Raportului de evaluare nr.6/003-ev din 01.02.2023.

INFORMAȚIE SUPLIMENTARĂ

Certificatul este eliberat conform sistemul 2+.
Sunt stabilite 2 supravegheri cu periodicitatea de o dată în an.
Certificatul este valabil numai în prezența anexei la certificatul dat.

Seria B Nr. 00001



Conducătorul
organismului de certificare

Angela Postolache



În atenția antreprenorilor și organelor de control!
Copiile certificatului de conformitate se legalizează în modul stabilit de
Organismul de Certificare a Produselor cu Grad Sporit de Pericol

CENTRUL TEHNIC PENTRU SECURITATE
INDUSTRIALĂ ȘI CERTIFICARE SRL

Fila 1 File 1

A n e x ă

la certificatul de conformitate a controlului producției în fabrică

Nr. OC P_{GSP} MD 015 11A 49597-23 din 01.02.2023

Lista produselor concrete asupra cărora se extinde acțiunea certificatului

Nr.	Marca comercială	Clasificări
1	SUPERTIT FIN	EN ISO 2560-A: E 42 0 R 12
2	SUPERBAZ	EN ISO 2560-A: E 42 4 B 42 H5
3	SUPRANOX 308L	EN ISO 3581-A: E 19 9 L R 12
4	STARINOX 308L	EN ISO 3581-A: E 19 9 L R 12

Serial Nr. 00001



Conducătorul
organismului de certificare

Angela Postolache

Anexa nu este valabilă în lipsa certificatului de conformitate a controlului producției în fabrică

ESKA

www.eskavalve.com



ERG-EH
SERIES

INTRODUCTORY

ERG-EH series gas pressure regulators are used in the gas lines in order to reduce maximum 5 bar input pressure to the desired output pressure between 16 and 500 mbar. The range of the output pressure can be set with the choice of a different spring. The regulator with safety stopping gets automatically active and stops the gas flow in case that the input pressure gets higher or lower than the adjusted value in order to ensure the safety of the devices used in the system thanks to the safe stopping system it includes.

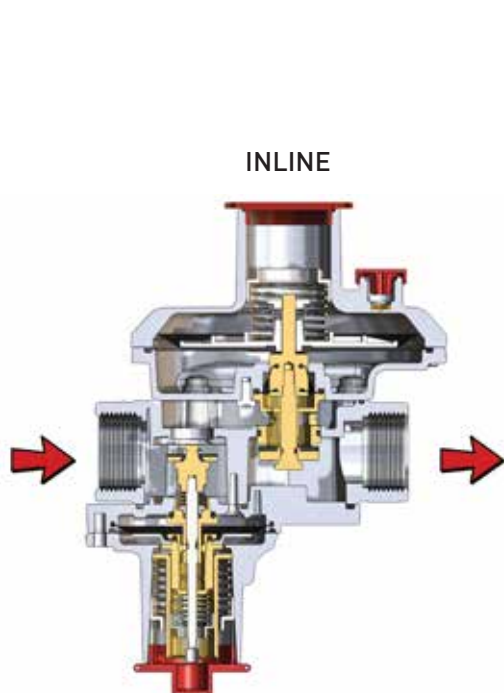


ERG-EH 1015 - 1020 - 1025

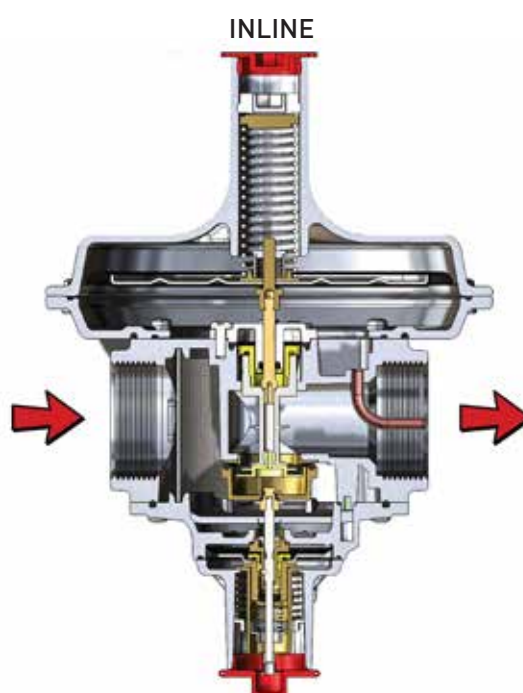


ERG-EH 1032 - 1040 - 1050

CONFIGURATIONS



ERG-EH 1015 - 1020 - 1025



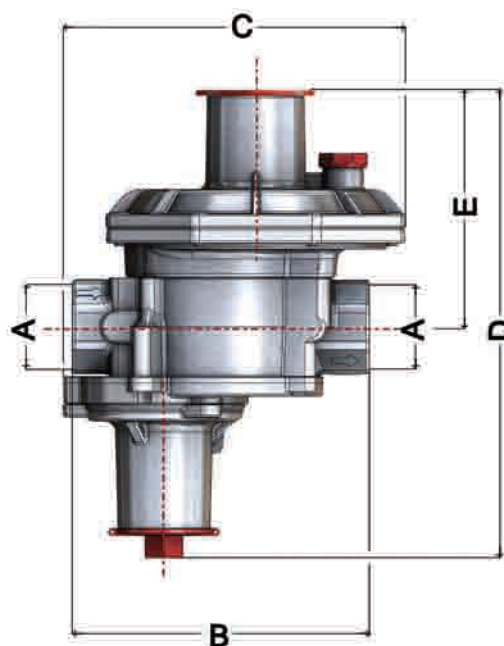
ERG-EH 1032 - 1040 - 1050

TECHNICAL INFORMATION

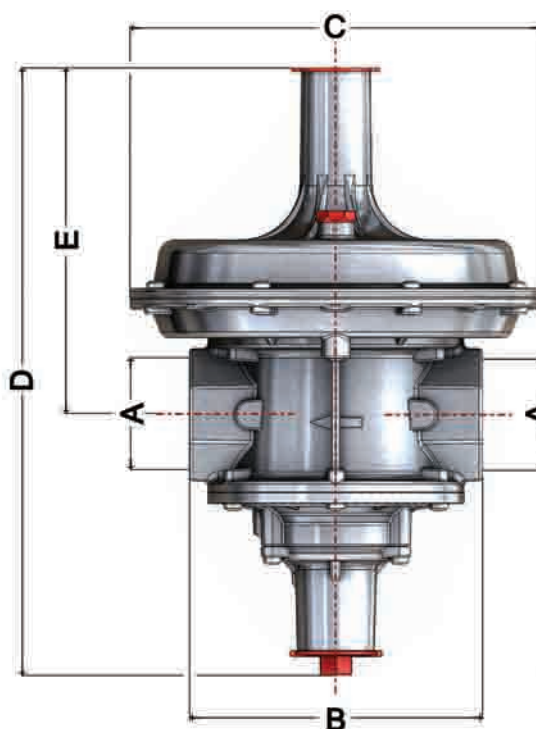
- Usage : City gas networks and gas pipelines in industrial areas
- Medium : Non-corrosive gases such as Natural Gas (Methane), LPG, Town Gas, Air, etc...
- Pressure Class : PN5
- Connection or Port Size : 3/4", 1", 1 1/4", 1 1/2", 2" Threaded and (Flanged)
- Inlet Pressure Range : 0.5 up to 5 bar
- Outlet Pressure Range : 16 mbar up to 500 mbar
- Filter : Optional
- Number of Stages : Single Stage
- Accuracy Class : AC 10 ($\pm 10\%$) (On Request AC5, AC15, AC20)
- Lock Up Pressure Class : SG30 (+ 30%) (On Request SG10, SG20)
- Ambient Temperature : -20°C up to 60°C (On request -40 °C)
- OPSO Pressure Range : 30 mbar up to 200 mbar
- OPSO Pressure Tolerance : 20%
- UPSO Pressure Range : 12 mbar up to 150 mbar
- UPSO Pressure Tolerance : 20%
- Shut Off Time : Less than 1 second
- Structural Additional Features : With Shutoff
- Material Standard : Aluminum-EN 1706 / Brass-EN 12164 and EN 12165 / Rubber-EN 549
- According to Directives : 2014/68/EU
- Capacity : Up to 1000m³/h



DIMENSIONS



MODEL	A	B	C	D	E
ERG-EH 1015	1/2"	136	156	215	110
ERG-EH 1020	3/4"	136	156	215	110
ERG-EH 1025	1"	136	156	215	110



MODEL	A	B	C	D	E
ERG-EH 1032	1 1/4"	160	225	332	183
ERG-EH 1040	1 1/2"	160	225	332	183
ERG-EH 1050	2"	160	225	332	183

ESKA

www.eskavalve.com



ERG-SE
SERIES

ERG-SE Series double stage pressure regulator is used on gas line to reduce inlet pressure to desired outlet pressure. It is suitable for both commercial and domestic usage where can be directly installed to gas meters with high operational reliability and accurate outlet pressure accuracy.

Simple installation procedure.

Due to different inlet and outlet connection range, ERG-SE Series can be used along with pipe diameter from DN15 to DN50 with different thread standards as well as BSP, BSPT, NPT, NPP.

The modular concept of ERG-SE and wide range availability of inlet and outlet connections allow to match particular customer requirements.

The regulators are manufactured according to **Ped Directive 2014/68/EU**. The functional tests are performed according to **EN334**.

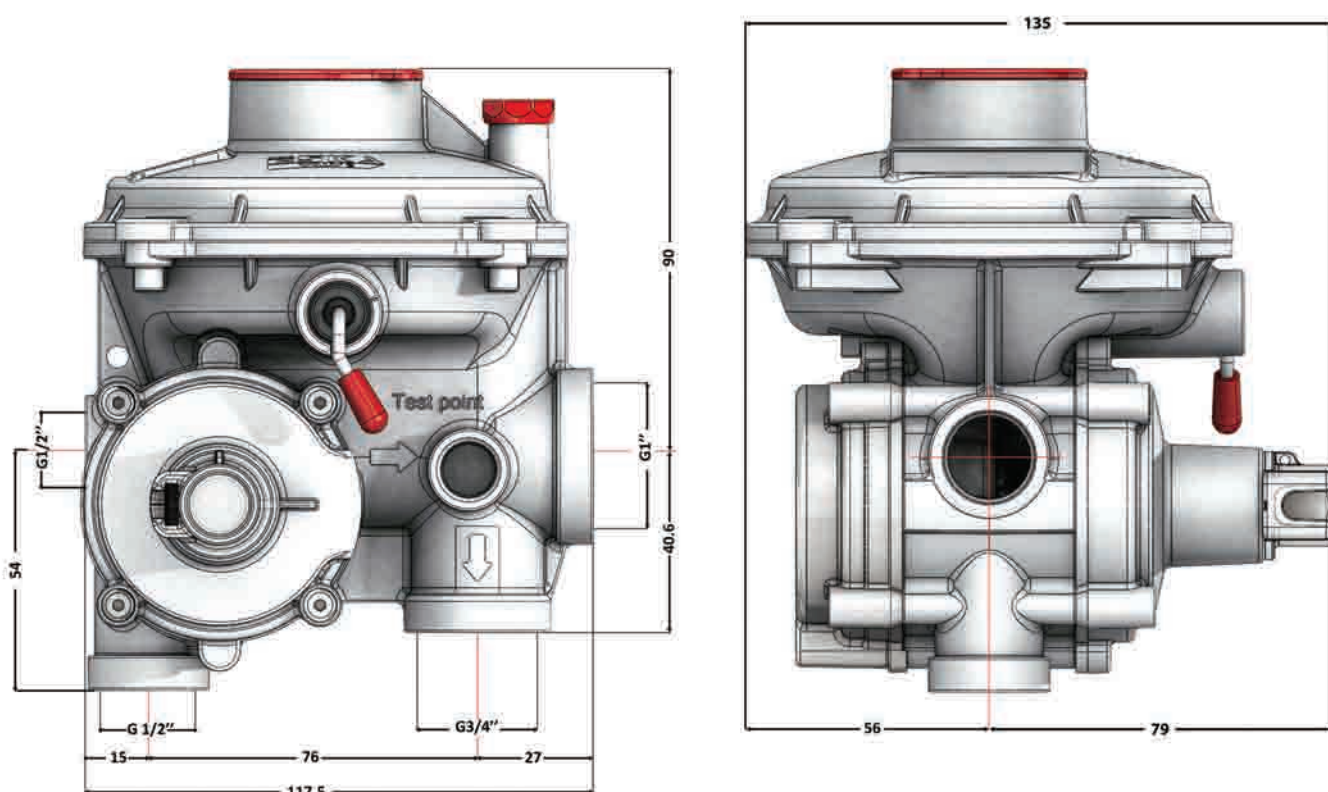
FEATURES

- For medium pressure domestic or commercial second group gas lines.
- Optional metallic mesh filter for easy change and guarantees longer operation life of regulator.
- Outlet pressure tolerance is $\pm 10\%$ (AC10) up $\pm 5\%$ (AC5)
- Lock-up pressure tolerance is $\pm 20\%$ (SG20) up to 100 mbar outlet pressure, more than 100 mbar outlet pressure SG20 and SG10 possible.
- Up to 6 bar inlet pressure.
- 18 - 500 mbar outlet pressure range with interchangeable springs

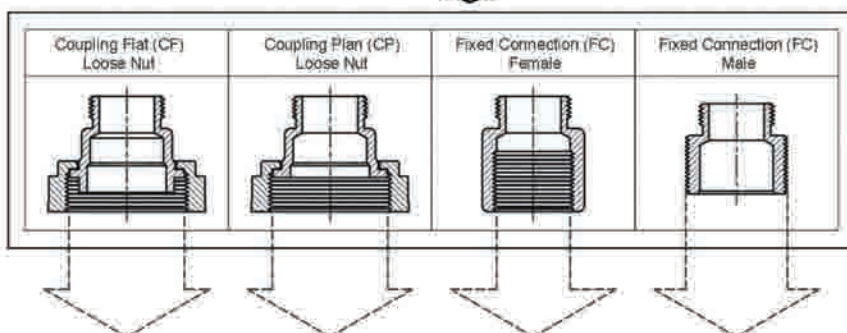
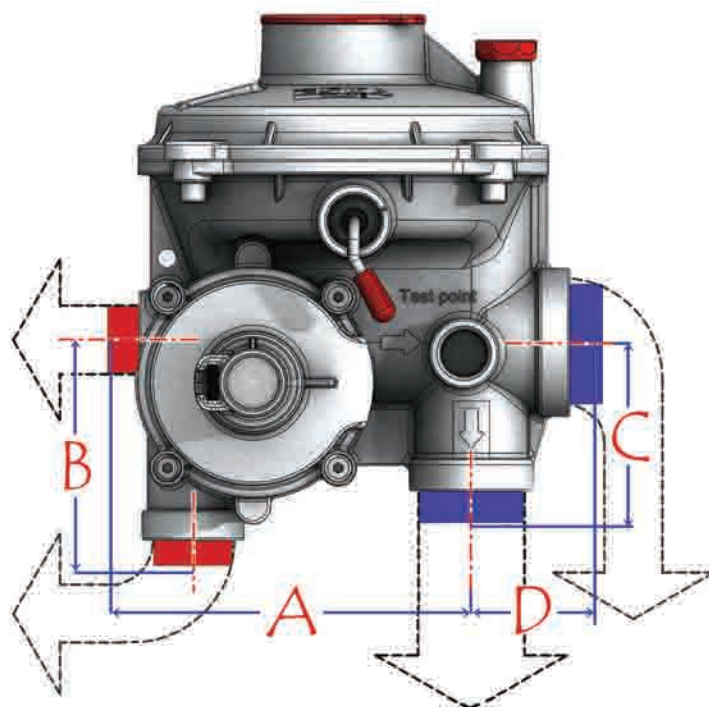
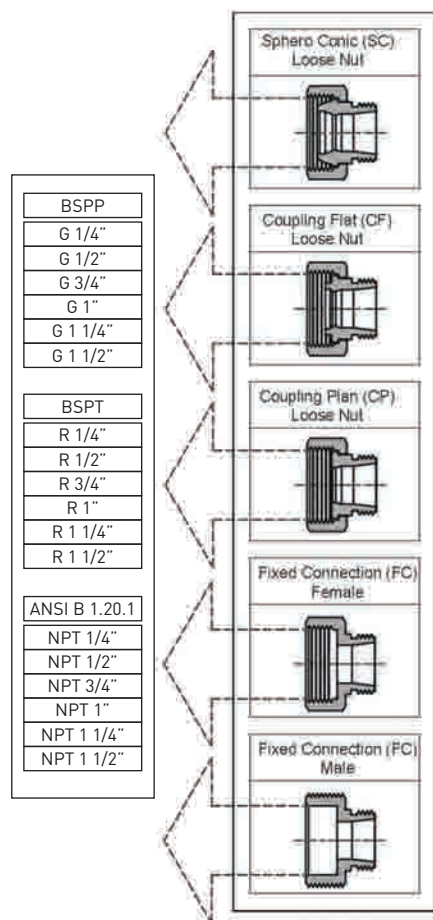
Optional ;

- Incorporated Over Pressure Shut Off Valve.
- Incorporated Under Pressure Shut Off Valve.
- Internal Relief Valve

DIMENSIONS



CONNECTION TYPES



BSPP	BSPT	ANSI B 1.20.1
G 1/4"	R 1/4"	NPT 1/4"
G 1/2"	R 1/2"	NPT 1/2"
G 3/4"	R 3/4"	NPT 3/4"
G 1"	R 1"	NPT 1"
G 1 1/4"	R 1 1/4"	NPT 1 1/4"
G 1 1/2"	R 1 1/2"	NPT 1 1/2"

INLET	1/2" Tapa	1/2" CF	3/4" SC	3/4" CF	7/8"	1" FC (Female)	1" CF	1 1/4" CF
OUTLET	3/4" Tapa	1/2" CF	3/4" CF	7/8"	1" CF	1" FC (Female)	1 1/4" CF	1 1/4" CF
	1" Tapa	1/2" CF	3/4" CF	7/8"	1" CF			

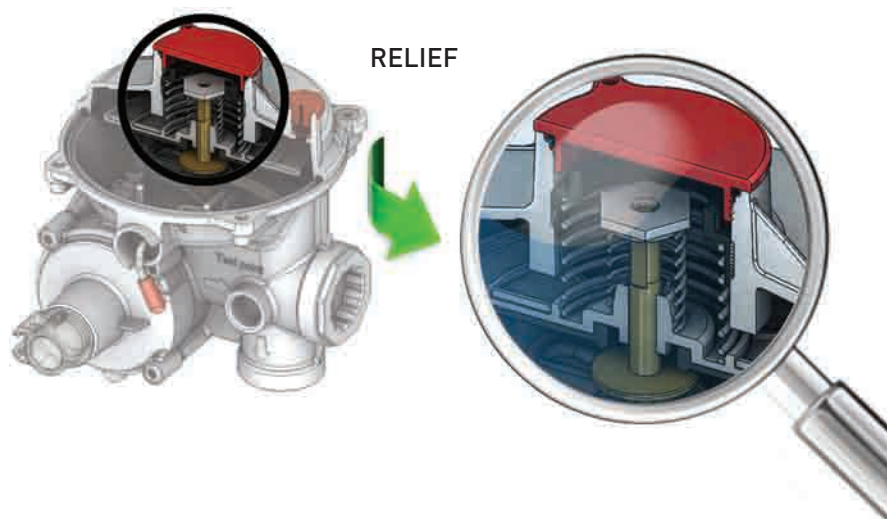
SAFETY AND ACCESSORIES

Relief System

Regulator can be produced with a relief valve. Relief valve monitors outlet pressure continuously and when it detects pressure level higher than regulator's nominal outlet pressure, it activates and discharges gas to the atmosphere.

Relief valve has limited discharge capacity. Usually calibration point is lower than OPSO system. Under certain conditions such as gas expansion during hot weather seasons, Relief Valve is activated before OPSO closes the gas lines. It prevents random shut-off regarding pressure increase on outlet side.

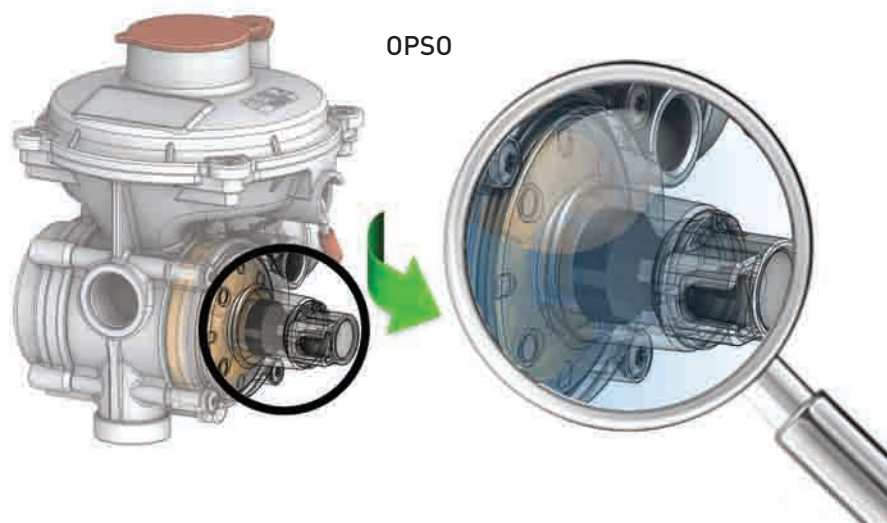
Relief valve can be recalibrated by using proper tools.



Over Pressure Shut-Off System

OPSO system is very useful during major breakdown situations and keeps the customer side safe. System works as a security valve and activates itself when the outlet pressure passes OPSO calibration point. OPSO system cuts the gas off, and manual reset is needed to activate the regulator again.

System has an independent shut-off mechanism and orifice and it monitors outlet pressure changes continuously, so activation time is below 2 seconds.

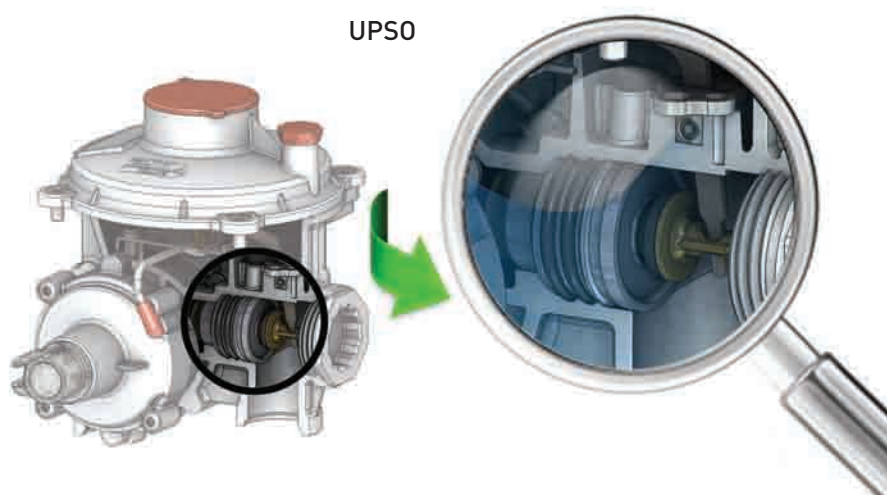


Under Pressure Shut-Off System.

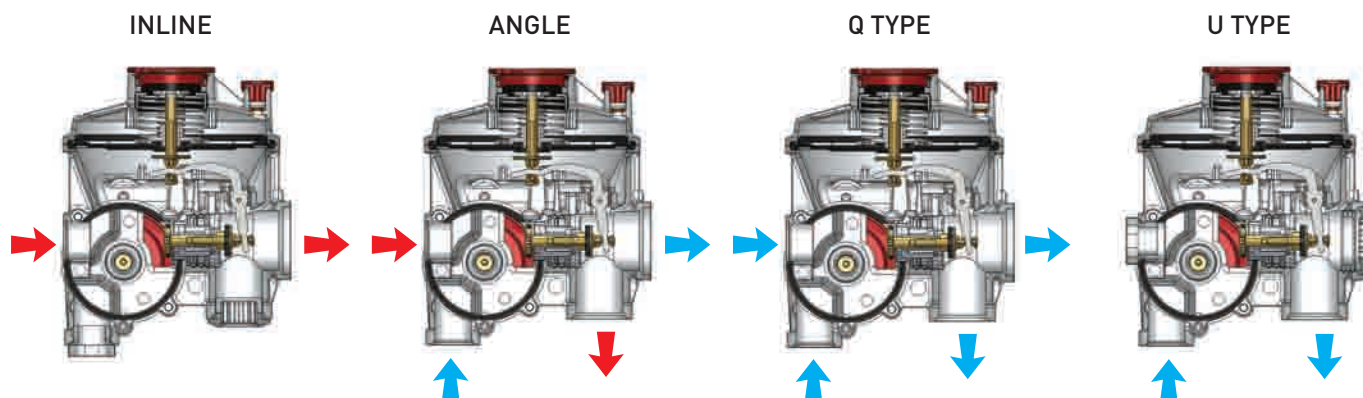
UPSO system on ERG- SE series regulator acts under those circumstances;

- When there is no pressure inlet side.
- When the consumption exceed regulator's maximum capacity. [$101\%Q$ to $150\%Q$]
- When the pressure drop outlet side due to consumption.

UPSO valve continuously monitors outlet pressure changes. Scenarios like, pipeline breakdown on outlet sides, or consumption is exceeding the total capacity of regulator or lack of inlet pressure situations etc...the outlet pressure drops and the regulator cuts the gas off once UPSO system is activated.



CONFIGURATIONS



SPECIFICATIONS

Medium	: Natural Gas, LPG and Non-Corrosive Gases
Operating temperature	: -20... + 60°C (optional : -40... +60°C)
Assembly	: Vertical and Horizontal Position
Maximum inlet pressure	: 6 bar
Minimum inlet pressure	: Depending on customer request can start as low as 0,1 bar.
Outlet pressure range	: 18 to 500 mbar.
Filter	: Included

DESIGN

The ERG-SE Series pressure regulator body may consists of:

- Valve housing
- Connections
- Filter
- Ventilation console
- Outlet pressure test point
- Integrated security valves (OPSO / UPSO / Relief)

MATERIALS

- Body and covers Aluminum according to EN1706 standard.
- Rubber components are Nitril Rubber comply to EN 549.
- Brass materials are suitable according to EN12164 - EN12165 Standard.
- Filter material is metallic mesh filter.

MODELS

MODEL	FLOW RATE			UNIT WEIGHT (kgs)	BOX SIZE (LxWxH cm)	PACKAGING (pieces/ carton)	CARTON SIZE (LxWxH cm)	CARTON (weight)	TOTAL CARTON (weight)
	LPO 18-75 mbar	MPO 75-150 mbar	HPO 150-500 mbar						
ERG-SE 06	6			1,15	15x14.5x16	16	33x58x35	0.65kg	19.5 kg
ERG-SE 10	10			1,15	15x14.5x16	16	33x58x35	0.65kg	19.5 kg
ERG-SE 25	25			1,15	15x14.5x16	16	33x58x35	0.65kg	19.5 kg
ERG-SE 50	50			1,15	15x14.5x16	16	33x58x35	0.65kg	19.5 kg

BESIDE STANDARD FLOW RATES ABOVE, 1,6 / 2,5 / 15 / 30 / 40 / 60 / 65 SCMH ARE AVAILABLE UPON REQUEST.



Industrie Service

ZERTIFIKAT

gültig bis: 01.05.2027

CERTIFICATE

valid until: 01.05.2027

EU-Baumusterprüfung (Modul B) - Baumuster - nach Richtlinie 2014/68/EU*EU Type examination (module B) - production type - according to Directive 2014/68/EU***Zertifikat-Nr.:****Z-EU-TR-IST-17-05-2754858-25151322***Certificate No.:***Name und Anschrift des Herstellers:****ESKA VALVE ANONİM ŞİRKETİ***Name and address of manufacturer:***Sakarya 1.Organize Sanayi Bölgesi Mahallesi
11.Cadde, No:6-8 Arifiye / Sakarya - Turkey**

Hiermit wird bescheinigt, dass das unten genannte Baumuster die Anforderungen der Richtlinie 2014/68/EU erfüllt.

We herewith certify that the type mentioned below meets the requirements of the Directive 2014/68/EU.

Prüfbericht Nr.:**P-EU-TR-IST-17-05-2754858-25151322***Evaluation report No.:***Geltungsbereich:***Scope of examination:*

**Gas Pressure Regulator with Safety Shut-Off
ERG-SE Serie, PN6 (PS6, PSD0,6), TS:-10;20°C,
-20;60°C ;(LT Version -40;60°C); Inlet DN15 , Outlet
DN 20-DN25; Technical Information: AC5/10/20,
SG10/20/30, AG10/20; On request with nut modular
connection**

**Fertigungsstätte:***Manufacturing plant:***ESKA VALVE ANONİM ŞİRKETİ****Sakarya 1.Organize Sanayi Bölgesi Mahallesi
11.Cadde, No:6-8 Arifiye / Sakarya - Turkey****ISTANBUL, 02.05.2017****(Ort, Datum) , rev.1 26.10.2020***(Place, date)*

Echtheitsprüfung durch App TÜV SÜD Verify
Verification of Certificate by TÜV SÜD App Verify

Notifizierte Stelle, Kenn-Nr. 0036
Notified Body, No. 0036
TÜV SÜD Industrie Service GmbH
Westendstr. 199
80686 München
GERMANY

Document ID: 2754858Y6aace

**Mustafa Örmeci**

P90 212 347 96-10 201



Certificate Number	FKK-2024-Y207	
Total Quantity / Sampling Size	160 / 160	
Product Series and Product Name	ERG-SE Serie Gas Pressure Regulator With Safety Shutoff Valve	
Manufacturer Name / Manufacturer's Trade Mark	ESKA VALVE A.Ş. / ESKA or ESKA VALVE	
Serial Number Range	2701910 - 2702069	
Customer Name	Statügaz Müh. Gaz Malz. San.Tic.Ltd	
Customer Order Number	10005333	
ESKA Work Order No for Assembly and Overall Dimension Drawing:	0373.01.002 / 1000001482	
Production Date / Certificate Preparation Date	07.2024 / 07.2024	
Manufacturer Address	Sakarya 1. OSB Mahallesi, 11.Cadde, No:6-8 Arifiye/Sakarya/TURKEY TEL: +90 (264) 502 54 34 (35) FAX: +90 (264) 502 54 84 www.eskavalve.com	

Test Name	Test Result	General Result
Maximum Allowable Pressure	PS: 6 bar	PASS
Inlet Pressure Range Test	bpu (Pumin-Pumax): 0,5 - 6 bar	PASS
Outlet Pressure Setting Test	Average Pds: 21 mbar	PASS
Accuracy Class Test	AC: ±%10	PASS
Minumum Capacity - Maximum Capacity Test "Qmin-Qmax"	10 SCMH	PASS
Lock Up Pressure Class and Internal Leakage Test	SG: ±%20 Internal Leakage: none	PASS
Relief Opening Pressure and Tolerance Test	Average Pdo: 35 mbar	PASS
Overpressure Shutoff Setpoint , Internal Leakage and Accuracy Group	Average Pds: 45 mbar / Leakage: none	PASS
Underpressure Shutoff Setpoint , Internal Leakage and Accuracy Group	Average Pds: 10 mbar / Leakage: none	PASS
Internal Leakage Test	Test pressure for regulator = Pumin, Pumax and 1,1xPS bar Test pressure for SSD = Pumin, Pumax, 1,1xPS bar ve 100 mbar Result: The outlet pressure mustn't increase. OR 15 cm3/h for DN25 or 25 cm3/h for DN40-DN80 or 40 cm3/h for DN100	PASS
External Leakage Test	Test pressure for regulator's body = 1,1xPS bar Test pressure for SSD's body = 1,1xPS bar Test pressure for regulator's casing of actuator = ** x ΔP bar — 0,2 bar if Δpmax < 0,15 bar; — 1,33 Δpmax if 0,15 bar ≤ Δpmax < 5 bar; — 1,1 Δpmax but at least 6,65 bar if Δpmax ≥ 5 bar. Result: No bubbles were seen in the water for 5 seconds OR Pressure mustn't decrease between the inlet and outlet valve OR 40 cm3/h for DN25 or 60 cm3/h for DN40-DN80 or 100 cm3/h for DN100	PASS
Strength Test	Test pressure for regulator's body = 1,5xPS bar (min PS+2 bar) Test pressure for SSD's body = 1,5xPS bar Test pressure for regulator's casing of actuator = 1,5xPS bar or 1,5xPSD bar Result: There must be no visual, dimensional, leakage problems.	PASS
Temperature Class / Ambient Temperature Range "TS"	-40 °C to +60 °C	PASS
End Connections	Thread DNin: 20 X DNout: 20 inlet connections: 3/4" BSPP CF outlet connections: 3/4" BSPP CF Connection Direction: Angle type	PASS
Overall Dimension Control Test	a. The User guide; must comply with relevant regulations, standards and other specified resources b. It must comply suitable according the declared technical drawings.	PASS
Visual Check Test	a. It should not show unnecessary warming, snagging, wear, binding, corrosion, damage or other defects that may affect its long-term performance. b. There should be no visual problems when checked before and after the tests c. Must comply with drawing and control plans	PASS
Instruction Manual Check Test	The User guide; must comply with relevant regulations, standards and other specified resources	PASS
Marking Check Test	The marking; must comply with relevant regulations, standards and other specified resources.	PASS
Materials Check Test	Regulator Body: Aluminum Die Casting (EN 1706) Regulator Cover : Aluminum Die Casting (EN 1706) Regulator Elastomers : NBR (EN 549) Regulator Seat pieces: Aluminum Die Casting (EN 1706) SSD Body: Aluminum Die Casting (EN 1706) SSD Cover : Aluminum Die Casting (EN 1706) SSD Elastomers : NBR (EN 549) SSD Seat pieces: Aluminum Die Casting (EN 1706)	PASS

SIGNATURE OF THE PERSON RESPONSIBLE FOR THE TESTS	Soner USTA	SIGNATURE OF THE PERSON AUTHORIZED BY THE MANUFACTURER	Furkan BALKAN
SIGNATURE OF THE INSPECTOR OR PERSON AUTHORIZED BY THE CUSTOMER (for witnessing the acceptance test only)	NONE	NOTES	
1. The above-described product(s) is (are) in compliance with 2014/68/EU PED 2. Type 3.2 when the certificate is signed by the person authorized by the customer. 3. The manufacturer has the right not to include some information in this sample draft document.			



QUALITY and TEST CERTIFICATE

Inspection certificate type 3.1 according to EN 10204

Certificate Number	FKK-2024-Y203	
Total Quantity / Sampling Size	16 / 16	
Product Series and Product Name	ERG-SE Serie Gas Pressure Regulator With Safety Shutoff Valve	
Manufacturer Name / Manufacturer's Trade Mark	ESKA VALVE A.Ş. / ESKA or ESKA VALVE	
Serial Number Range	2702198 - 2702213	
Customer Name	Statügaz Müh. Gaz Malz. San.Tic.Ltd	
Customer Order Number	10005333	
ESKA Work Order No for Assembly and Overall Dimension Drawing:	0373.01.064 / 1000004816	
Production Date / Certificate Preparation Date	07.2024 / 07.2024	
Manufacturer Address	Sakarya 1. OSB Mahallesi, 11.Cadde, No:6-8 Arifiye/Sakarya/TURKEY TEL: +90 (264) 502 54 34 (35) FAX: +90 (264) 502 54 84 www.eskavalve.com	

Test Name	Test Result	General Result
Maximum Allowable Pressure	PS: 6 bar	PASS
Inlet Pressure Range Test	bpu (Pumin-Pumax): 0,5 - 6 bar	PASS
Outlet Pressure Setting Test	Average Pds: 21 mbar	PASS
Accuracy Class Test	AC: ±%10	PASS
Minimum Capacity - Maximum Capacity Test "Qmin-Qmax"	25 SCMH	PASS
Lock Up Pressure Class and Internal Leakage Test	SG: ±%20 Internal Leakage: none	PASS
Relief Opening Pressure and Tolerance Test	Average Pdo: 35 mbar	PASS
Overpressure Shutoff Setpoint , Internal Leakage and Accuracy Group	Average Pds: 45 mbar / Leakage: none	PASS
Underpressure Shutoff Setpoint , Internal Leakage and Accuracy Group	Average Pds: 10 mbar / Leakage: none	PASS
Internal Leakage Test	Test pressure for regulator = Pumin, Pumax and 1,1xPS bar Test pressure for SSD = Pumin, Pumax, 1,1xPS bar ve 100 mbar Result: The outlet pressure mustn't increase. OR 15 cm3/h for DN25 or 25 cm3/h for DN40-DN80 or 40 cm3/h for DN100	PASS
External Leakage Test	Test pressure for regulator's body = 1,1xPS bar Test pressure for SSD's body = 1,1xPS bar Test pressure for regulator's casing of actuator = ** x ΔP bar — 0,2 bar if Δpmax < 0,15 bar; — 1,33 Δpmax if 0,15 bar ≤ Δpmax < 5 bar; — 1,1 Δpmax but at least 6,65 bar if Δpmax ≥ 5 bar. Result: No bubbles were seen in the water for 5 seconds OR Pressure mustn't decrease between the inlet and outlet valve OR 40 cm3/h for DN25 or 60 cm3/h for DN40-DN80 or 100 cm3/h for DN100	PASS
Strength Test	Test pressure for regulator's body = 1,5xPS bar (min PS+2 bar) Test pressure for SSD's body = 1,5xPS bar Test pressure for regulator's casing of actuator = 1,5xPS bar or 1,5xPSD bar Result: There must be no visual, dimensional, leakage problems.	PASS
Temperature Class / Ambient Temperature Range "TS"	-40 °C to +60 °C	PASS
End Connections	Thread DNin: 25 X DNout: 25 inlet connections: 1" BSPP CF outlet connections: 1" BSPP CF Connection Direction: Angle type	PASS
Overall Dimension Control Test	a. The User guide; must comply with relevant regulations, standards and other specified resources b. It must comply suitable according the declared technical drawings.	PASS
Visual Check Test	a. It should not show unnecessary warming, snagging, wear, binding, corrosion, damage or other defects that may affect its long-term performance. b. There should be no visual problems when checked before and after the tests c. Must comply with drawing and control plans	PASS
Instruction Manual Check Test	The User guide; must comply with relevant regulations, standards and other specified resources	PASS
Marking Check Test	The marking; must comply with relevant regulations, standards and other specified resources.	PASS
Materials Check Test	Regulator Body: Aluminum Die Casting (EN 1706) Regulator Cover : Aluminum Die Casting (EN 1706) Regulator Elastomers : NBR (EN 549) Regulator Seat pieces: Aluminum Die Casting (EN 1706) SSD Body: Aluminum Die Casting (EN 1706) SSD Cover : Aluminum Die Casting (EN 1706) SSD Elastomers : NBR (EN 549) SSD Seat pieces: Aluminum Die Casting (EN 1706)	PASS

SIGNATURE OF THE PERSON RESPONSIBLE FOR THE TESTS	Soner USTA	SIGNATURE OF THE PERSON AUTHORIZED BY THE MANUFACTURER	Furkan BALKAN
SIGNATURE OF THE INSPECTOR OR PERSON AUTHORIZED BY THE CUSTOMER (for witnessing the acceptance test only))	NONE	NOTES	
1. The above-described product(s) is (are) in compliance with 2014/68/EU PED 2. Type 3.2 when the certificate is signed by the person authorized by the customer. 3. The manufacturer has the right not to include some information in this sample draft document.			



QUALITY and TEST CERTIFICATE

Inspection certificate type 3.1 according to EN 10204

Certificate Number	FKK-2024-Y206	
Total Quantity / Sampling Size	48 / 48	
Product Series and Product Name	ERG-SE Serie Gas Pressure Regulator With Safety Shutoff Valve	
Manufacturer Name / Manufacturer's Trade Mark	ESKA VALVE A.Ş. / ESKA or ESKA VALVE	
Serial Number Range	2702070 - 2702117	
Customer Name	Statügaz Müh. Gaz Malz. San.Tic.Ltd	
Customer Order Number	10005333	
ESKA Work Order No for Assembly and Overall Dimension Drawing:	0373.01.003 / 1000001483	
Production Date / Certificate Preparation Date	07.2024 / 07.2024	
Manufacturer Address	Sakarya 1. OSB Mahallesi, 11.Cadde, No:6-8 Arifiye/Sakarya/TURKEY TEL: +90 (264) 502 54 34 (35) FAX: +90 (264) 502 54 84 www.eskavalve.com	

Test Name	Test Result	General Result
Maximum Allowable Pressure	PS: 6 bar	PASS
Inlet Pressure Range Test	bpu (Pumin-Pumax): 0,5 - 6 bar	PASS
Outlet Pressure Setting Test	Average Pds: 21 mbar	PASS
Accuracy Class Test	AC: ±%10	PASS
Minumum Capacity - Maximum Capacity Test "Qmin-Qmax"	25 SCMH	PASS
Lock Up Pressure Class and Internal Leakage Test	SG: ±%20 Internal Leakage: none	PASS
Relief Opening Pressure and Tolerance Test	Average Pdo: 35 mbar	PASS
Overpressure Shutoff Setpoint , Internal Leakage and Accuracy Group	Average Pds: 45 mbar / Leakage: none	PASS
Underpressure Shutoff Setpoint , Internal Leakage and Accuracy Group	Average Pds: 10 mbar / Leakage: none	PASS
Internal Leakage Test	Test pressure for regulator = Pumin, Pumax and 1,1xPS bar Test pressure for SSD = Pumin, Pumax, 1,1xPS bar ve 100 mbar Result: The outlet pressure mustn't increase. OR 15 cm3/h for DN25 or 25 cm3/h for DN40-DN80 or 40 cm3/h for DN100	PASS
External Leakage Test	Test pressure for regulator's body = 1,1xPS bar Test pressure for SSD's body = 1,1xPS bar Test pressure for regulator's casing of actuator = ** x ΔP bar — 0,2 bar if Δpmax < 0,15 bar; — 1,33 Δpmax if 0,15 bar ≤ Δpmax < 5 bar; — 1,1 Δpmax but at least 6,65 bar if Δpmax ≥ 5 bar. Result: No bubbles were seen in the water for 5 seconds OR Pressure mustn't decrease between the inlet and outlet valve OR 40 cm3/h for DN25 or 60 cm3/h for DN40-DN80 or 100 cm3/h for DN100	PASS
Strength Test	Test pressure for regulator's body = 1,5xPS bar (min PS+2 bar) Test pressure for SSD's body = 1,5xPS bar Test pressure for regulator's casing of actuator = 1,5xPS bar or 1,5xPSD bar Result: There must be no visual, dimensional, leakage problems.	PASS
Temperature Class / Ambient Temperature Range "TS"	-40 °C to +60 °C	PASS
End Connections	Thread DNin: 20 X DNout: 20 inlet connections: 3/4" BSPP CF outlet connections: 3/4" BSPP CF Connection Direction: Angle type	PASS
Overall Dimension Control Test	a. The User guide; must comply with relevant regulations, standards and other specified resources b. It must comply suitable according the declared technical drawings.	PASS
Visual Check Test	a. It should not show unnecessary warming, snagging, wear, binding, corrosion, damage or other defects that may affect its long-term performance. b. There should be no visual problems when checked before and after the tests c. Must comply with drawing and control plans	PASS
Instruction Manual Check Test	The User guide; must comply with relevant regulations, standards and other specified resources	PASS
Marking Check Test	The marking; must comply with relevant regulations, standards and other specified resources.	PASS
Materials Check Test	Regulator Body: Aluminum Die Casting (EN 1706) Regulator Cover : Aluminum Die Casting (EN 1706) Regulator Elastomers : NBR (EN 549) Regulator Seat pieces: Aluminum Die Casting (EN 1706) SSD Body: Aluminum Die Casting (EN 1706) SSD Cover : Aluminum Die Casting (EN 1706) SSD Elastomers : NBR (EN 549) SSD Seat pieces: Aluminum Die Casting (EN 1706)	PASS

SIGNATURE OF THE PERSON RESPONSIBLE FOR THE TESTS	Soner USTA	SIGNATURE OF THE PERSON AUTHORIZED BY THE MANUFACTURER	Furkan BALKAN
SIGNATURE OF THE INSPECTOR OR PERSON AUTHORIZED BY THE CUSTOMER (for witnessing the acceptance test only)	NONE	NOTES	
1. The above-described product(s) is (are) in compliance with 2014/68/EU PED 2. Type 3.2 when the certificate is signed by the person authorized by the customer. 3. The manufacturer has the right not to include some information in this sample draft document.			



QUALITY and TEST CERTIFICATE

Inspection certificate type 3.1 according to EN 10204

Certificate Number	FKK-2024-Y205
Total Quantity / Sampling Size	16 / 16
Product Series and Product Name	ERG-SE Serie Gas Pressure Regulator With Safety Shutoff Valve
Manufacturer Name / Manufacturer's Trade Mark	ESKA VALVE A.Ş. / ESKA or ESKA VALVE
Serial Number Range	2702118 - 2702133
Customer Name	Statügaz Müh. Gaz Malz. San.Tic.Ltd
Customer Order Number	10005333
ESKA Work Order No for Assembly and Overall Dimension Drawing:	0373.01.003 / 1000001483
Production Date / Certificate Preparation Date	07.2024 / 07.2024
Manufacturer Address	Sakarya 1. OSB Mahallesi, 11.Cadde, No:6-8 Arifiye/Sakarya/TURKEY TEL: +90 (264) 502 54 34 (35) FAX: +90 (264) 502 54 84 www.eskavalve.com

Test Name	Test Result	General Result
Maximum Allowable Pressure	PS: 6 bar	PASS
Inlet Pressure Range Test	bpu (Pumin-Pumax): 0,5 - 6 bar	PASS
Outlet Pressure Setting Test	Average Pds: 21 mbar	PASS
Accuracy Class Test	AC: ±%10	PASS
Minumum Capacity - Maximum Capacity Test "Qmin-Qmax"	25 SCMH	PASS
Lock Up Pressure Class and Internal Leakage Test	SG: ±%20 Internal Leakage: none	PASS
Relief Opening Pressure and Tolerance Test	Average Pdo: 35 mbar	PASS
Overpressure Shutoff Setpoint , Internal Leakage and Accuracy Group	Average Pds: 45 mbar / Leakage: none	PASS
Underpressure Shutoff Setpoint , Internal Leakage and Accuracy Group	Average Pds: 10 mbar / Leakage: none	PASS
Internal Leakage Test	Test pressure for regulator = Pumin, Pumax and 1,1xPS bar Test pressure for SSD = Pumin, Pumax, 1,1xPS bar ve 100 mbar Result: The outlet pressure mustn't increase. OR 15 cm3/h for DN25 or 25 cm3/h for DN40-DN80 or 40 cm3/h for DN100	PASS
External Leakage Test	Test pressure for regulator's body = 1,1xPS bar Test pressure for SSD's body = 1,1xPS bar Test pressure for regulator's casing of actuator = ** x ΔP bar — 0,2 bar if Δpmax < 0,15 bar; — 1,33 Δpmax if 0,15 bar ≤ Δpmax < 5 bar; — 1,1 Δpmax but at least 6,65 bar if Δpmax ≥ 5 bar. Result: No bubbles were seen in the water for 5 seconds OR Pressure mustn't decrease between the inlet and outlet valve OR 40 cm3/h for DN25 or 60 cm3/h for DN40-DN80 or 100 cm3/h for DN100	PASS
Strength Test	Test pressure for regulator's body = 1,5xPS bar (min PS+2 bar) Test pressure for SSD's body = 1,5xPS bar Test pressure for regulator's casing of actuator = 1,5xPS bar or 1,5xPSD bar Result: There must be no visual, dimensional, leakage problems.	PASS
Temperature Class / Ambient Temperature Range "TS"	-40 °C to +60 °C	PASS
End Connections	Thread DNin: 20 X DNout: 20 inlet connections: 3/4" BSPP CF outlet connections: 3/4" BSPP CF Connection Direction: Angle type	PASS
Overall Dimension Control Test	a. The User guide; must comply with relevant regulations, standards and other specified resources b. It must comply suitable according the declared technical drawings.	PASS
Visual Check Test	a. It should not show unnecessary warming, snagging, wear, binding, corrosion, damage or other defects that may affect its long-term performance. b. There should be no visual problems when checked before and after the tests c. Must comply with drawing and control plans	PASS
Instruction Manual Check Test	The User guide; must comply with relevant regulations, standards and other specified resources	PASS
Marking Check Test	The marking; must comply with relevant regulations, standards and other specified resources.	PASS
Materials Check Test	Regulator Body: Aluminum Die Casting (EN 1706) Regulator Cover : Aluminum Die Casting (EN 1706) Regulator Elastomers : NBR (EN 549) Regulator Seat pieces: Aluminum Die Casting (EN 1706) SSD Body: Aluminum Die Casting (EN 1706) SSD Cover : Aluminum Die Casting (EN 1706) SSD Elastomers : NBR (EN 549) SSD Seat pieces: Aluminum Die Casting (EN 1706)	PASS

SIGNATURE OF THE PERSON RESPONSIBLE FOR THE TESTS	Soner USTA	SIGNATURE OF THE PERSON AUTHORIZED BY THE MANUFACTURER	Furkan BALKAN
SIGNATURE OF THE INSPECTOR OR PERSON AUTHORIZED BY THE CUSTOMER (for witnessing the acceptance test only)	NONE	NOTES	1. The above-described product(s) is (are) in compliance with 2014/68/EU PED 2. Type 3.2 when the certificate is signed by the person authorized by the customer. 3. The manufacturer has the right not to include some information in this sample draft document.



QUALITY and TEST CERTIFICATE

Inspection certificate type 3.1 according to EN 10204

Certificate Number	FKK-2024-Y202	
Total Quantity / Sampling Size	264 / 264	
Product Series and Product Name	ERG-SE Serie Gas Pressure Regulator With Safety Shutoff Valve	
Manufacturer Name / Manufacturer's Trade Mark	ESKA VALVE A.Ş. / ESKA or ESKA VALVE	
Serial Number Range	2162334 - 2162597	
Customer Name	Statügaz Müh. Gaz Malz. San.Tic.Ltd	
Customer Order Number	10005333	
ESKA Work Order No for Assembly and Overall Dimension Drawing:	0373.01.038 / 1000002732	
Production Date / Certificate Preparation Date	07.2024 / 07.2024	
Manufacturer Address	Sakarya 1. OSB Mahallesi, 11.Cadde, No:6-8 Arifiye/Sakarya/TURKEY TEL: +90 (264) 502 54 34 (35) FAX: +90 (264) 502 54 84 www.eskavalve.com	

Test Name	Test Result	General Result
Maximum Allowable Pressure	PS: 6 bar	PASS
Inlet Pressure Range Test	bpu (Pumin-Pumax): 0,5 - 6 bar	PASS
Outlet Pressure Setting Test	Average Pds: 21 mbar	PASS
Accuracy Class Test	AC: ±%10	PASS
Minimum Capacity - Maximum Capacity Test "Qmin-Qmax"	50 SCMH	PASS
Lock Up Pressure Class and Internal Leakage Test	SG: ±%20 Internal Leakage: none	PASS
Relief Opening Pressure and Tolerance Test	Average Pdo: 35 mbar	PASS
Overpressure Shutoff Setpoint, Internal Leakage and Accuracy Group	Average Pdsu: 50 mbar / Leakage: none	PASS
Underpressure Shutoff Setpoint, Internal Leakage and Accuracy Group	Average Pdsu: 10 mbar / Leakage: none	PASS
Internal Leakage Test	Test pressure for regulator = Pumin, Pumax and 1,1xPS bar Test pressure for SSD = Pumin, Pumax, 1,1xPS bar ve 100 mbar Result: The outlet pressure mustn't increase. OR 15 cm3/h for DN25 or 25 cm3/h for DN40-DN80 or 40 cm3/h for DN100	PASS
External Leakage Test	Test pressure for regulator's body = 1,1xPS bar Test pressure for SSD's body = 1,1xPS bar Test pressure for regulator's casing of actuator = ** x ΔP bar — 0,2 bar if Δpmax < 0,15 bar; — 1,33 Δpmax if 0,15 bar ≤ Δpmax < 0,5 bar; — 1,1 Δpmax but at least 6,65 bar if Δpmax ≥ 5 bar. Result: No bubbles were seen in the water for 5 seconds OR Pressure mustn't decrease between the inlet and outlet valve OR 40 cm3/h for DN25 or 60 cm3/h for DN40-DN80 or 100 cm3/h for DN100	PASS
Strength Test	Test pressure for regulator's body = 1,5xPS bar (min PS+2 bar) Test pressure for SSD's body = 1,5xPS bar Test pressure for regulator's casing of actuator = 1,5xPS bar or 1,5xPSD bar Result: There must be no visual, dimensional, leakage problems.	PASS
Temperature Class / Ambient Temperature Range "TS"	-40 °C to +60 °C	PASS
End Connections	Thread DNin: 20 X DNout: 25 inlet connections: 3/4" BSPP CF outlet connections: 1" BSPP CF Connection Direction: Angle type	PASS PASS PASS PASS
Overall Dimension Control Test	a. The User guide; must comply with relevant regulations, standards and other specified resources b. It must comply suitable according the declared technical drawings.	PASS
Visual Check Test	a. It should not show unnecessary warming, snagging, wear, binding, corrosion, damage or other defects that may affect its long-term performance. b. There should be no visual problems when checked before and after the tests c. Must comply with drawing and control plans	PASS
Instruction Manual Check Test	The User guide; must comply with relevant regulations, standards and other specified resources	PASS
Marking Check Test	The marking; must comply with relevant regulations, standards and other specified resources.	PASS
Materials Check Test	Regulator Body: Aluminum Die Casting (EN 1706) Regulator Cover: Aluminum Die Casting (EN 1706) Regulator Elastomers: NBR (EN 549) Regulator Seat pieces: Aluminum Die Casting (EN 1706) SSD Body: Aluminum Die Casting (EN 1706) SSD Cover: Aluminum Die Casting (EN 1706) SSD Elastomers: NBR (EN 549) SSD Seat pieces: Aluminum Die Casting (EN 1706)	PASS PASS PASS PASS PASS PASS PASS PASS

SIGNATURE OF THE PERSON RESPONSIBLE FOR THE TESTS	Soner USTA	SIGNATURE OF THE PERSON AUTHORIZED BY THE MANUFACTURER	Furkan BALKAN
 Sakarya 1. Organize San. Bölge Mah. 11. Cad. No: 6/8 Arifiye-SAKARYA Ağırlık Çekim No: 02-310-110-2771 Mühür No: 0380-1102-7710-0001		 Sakarya 1. Organize San. Bölge Mah. 11. Cad. No: 6/8 Arifiye-SAKARYA Ağırlık Çekim No: 02-310-110-2771 Mühür No: 0380-1102-7710-0001	
SIGNATURE OF THE INSPECTOR OR PERSON AUTHORIZED BY THE CUSTOMER (for witnessing the acceptance test only)		NOTES	
NONE		1. The above-described product(s) is(are) in compliance with 2014/68/EU PED 2. Type 3.2 when the certificate is signed by the person authorized by the customer. 3. The manufacturer has the right not to include some information in this sample draft document.	



QUALITY and TEST CERTIFICATE

Inspection certificate type 3.1 according to EN 10204

Certificate Number	FKK-2024-Y202	
Total Quantity / Sampling Size	64 / 64	
Product Series and Product Name	ERG-SE Serie Gas Pressure Regulator With Safety Shutoff Valve	
Manufacturer Name / Manufacturer's Trade Mark	ESKA VALVE A.Ş. / ESKA or ESKA VALVE	
Serial Number Range	2702134 - 2702197	
Customer Name	Statügaz Müh. Gaz Malz. San.Tic.Ltd	
Customer Order Number	10005333	
ESKA Work Order No for Assembly and Overall Dimension Drawing:	0373.01.038 / 1000002732	
Production Date / Certificate Preparation Date	07.2024 / 07.2024	
Manufacturer Address	Sakarya 1. OSB Mahallesi, 11.Cadde, No:6-8 Arifiye/Sakarya/TURKEY TEL: +90 (264) 502 54 34 (35) FAX: +90 (264) 502 54 84 www.eskavalve.com	

Test Name	Test Result	General Result
Maximum Allowable Pressure	PS: 6 bar	PASS
Inlet Pressure Range Test	bpu (Pumin-Pumax): 0,5 - 6 bar	PASS
Outlet Pressure Setting Test	Average Pds: 21 mbar	PASS
Accuracy Class Test	AC: ±%10	PASS
Minumum Capacity - Maximum Capacity Test "Qmin-Qmax"	50 SCMH	PASS
Lock Up Pressure Class and Internal Leakage Test	SG: ±%20 Internal Leakage: none	PASS
Relief Opening Pressure and Tolerance Test	Average Pdo: 35 mbar	PASS
Overpressure Shutoff Setpoint , Internal Leakage and Accuracy Group	Average Pdsu: 50 mbar / Leakage: none	PASS
Underpressure Shutoff Setpoint , Internal Leakage and Accuracy Group	Average Pdsu: 10 mbar / Leakage: none	PASS
Internal Leakage Test	Test pressure for regulator = Pumin, Pumax and 1,1xPS bar Test pressure for SSD = Pumin, Pumax, 1,1xPS bar ve 100 mbar Result: The outlet pressure mustn't increase. OR 15 cm3/h for DN25 or 25 cm3/h for DN40-DN80 or 40 cm3/h for DN100	PASS
External Leakage Test	Test pressure for regulator's body = 1,1xPS bar Test pressure for SSD's body = 1,1xPS bar Test pressure for regulator's casing of actuator = ** x ΔP bar — 0,2 bar if Δpmax < 0,15 bar; — 1,33 Δpmax if 0,15 bar ≤ Δpmax < 5 bar; — 1,1 Δpmax but at least 6,65 bar if Δpmax ≥ 5 bar. Result: No bubbles were seen in the water for 5 seconds OR Pressure mustn't decrease between the inlet and outlet valve OR 40 cm3/h for DN25 or 60 cm3/h for DN40-DN80 or 100 cm3/h for DN100	PASS
Strength Test	Test pressure for regulator's body = 1,5xPS bar (min PS+2 bar) Test pressure for SSD's body = 1,5xPS bar Test pressure for regulator's casing of actuator = 1,5xPS bar or 1,5xPSD bar Result: There must be no visual, dimensional, leakage problems.	PASS
Temperature Class / Ambient Temperature Range "TS"	-40 °C to +60 °C	PASS
End Connections	Thread DNin: 20 X DNout: 25 inlet connections: 3/4" BSPP CF outlet connections: 1" BSPP CF Connection Direction: Angle type	PASS
Overall Dimension Control Test	a. The User guide; must comply with relevant regulations, standards and other specified resources b. It must comply suitable according the declared technical drawings.	PASS
Visual Check Test	a. It should not show unnecessary warming, snagging, wear, binding, corrosion, damage or other defects that may affect its long-term performance. b. There should be no visual problems when checked before and after the tests c. Must comply with drawing and control plans	PASS
Instruction Manual Check Test	The User guide; must comply with relevant regulations, standards and other specified resources	PASS
Marking Check Test	The marking; must comply with relevant regulations, standards and other specified resources.	PASS
Materials Check Test	Regulator Body: Aluminum Die Casting (EN 1706) Regulator Cover : Aluminum Die Casting (EN 1706) Regulator Elastomers : NBR (EN 549) Regulator Seat pieces: Aluminum Die Casting (EN 1706) SSD Body: Aluminum Die Casting (EN 1706) SSD Cover : Aluminum Die Casting (EN 1706) SSD Elastomers : NBR (EN 549) SSD Seat pieces: Aluminum Die Casting (EN 1706)	PASS

SIGNATURE OF THE PERSON RESPONSIBLE FOR THE TESTS	Soner USTA	SIGNATURE OF THE PERSON AUTHORIZED BY THE MANUFACTURER	Furkan BALKAN
			
SIGNATURE OF THE INSPECTOR OR PERSON AUTHORIZED BY THE CUSTOMER (for witnessing the acceptance test only)		NOTES	
NONE		1. The above-described product(s) is (are) in compliance with 2014/68/EU PED 2. Type 3.2 when the certificate is signed by the person authorized by the customer. 3. The manufacturer has the right not to include some information in this sample draft document.	



QUALITY and TEST CERTIFICATE

Inspection certificate type 3.1 according to EN 10204