

ERG-EH SERIES GAS PRESSURE REGULATOR WITH SAFETY SHUT-OFF DEVICE and

ERG-H SERIES GAS PRESSURE REGULATOR WITHOUT SAFETY SHUT-OFF DEVICE

GAS PRESSURE REGULATORS INSTRUCTIONS FOR INSTALLATION, USE AND MAINTENANCE



"Please Read Carefully Before all Operations and Follow. Do not Perform Transactions Not Indicated"

"Maintain for Future Use."

"The products should be installed only by authorized persons."

"This product should be installed in conformity to the rules in force and this guide."

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ESKA VALVE A.Ş

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The right to make changes in this manual according to technical developments is reserved. The 2014/68/EU Pressure Equipment Directive has been implemented and prepared accordingly.

1-GENERAL WARNINGS AND REQUIRED CHECKS

Please read this instruction carefully before all operations and do not do any unspecified operations, use the product according to this instruction and the information on its label, otherwise the product may not work properly, injuries and material damage may occur. All operations written in this manual should only be carried out by expert personnel who have been approved by the authorized officials.

End users and unauthorized persons should read this instruction, comply with all safety rules that may concern them, in no case should they interfere with the product or line, should not tamper with and/or try to change settings and physically enter, detect malfunctions or gas leaks during use, etc. In such cases, they should close the inlet valve in front of the regulator and inform the relevant experts who have been approved by the authorized officials.

Do not start operations before acquiring and reading this instruction. If you cannot acquire this instruction, there are issues that are not understood, unknown or unclear before starting any operation, or if you cannot perform the operations and have problems even though the information in the instruction is followed during the operations, contact the authorities.

For all operations in this instruction and throughout the usage; be advised to use appropriate tools and methods. In all processes and use, make sure that the products or their boxes are not dropped, thrown, shaken, exposed to excessive load, force and impact, not crushed, not placed on weight, external parts and external protrusions are not damaged, heavy loads are not placed on them and they are not knocked over.

Before, during or after any process and during the entire use of the product; be advised on obtaining the necessary legal permissions, informing and warning all parties that may be involved in the transactions, taking all necessary safety measures, including personal protection, taking actions in accordance with the current legislation, regulations, technical standards and rules accepted by gas companies, taking all necessary measures against the risk of fire, not inhaling, taking precautions against danger combinations, taking adequate precautions against possible ejection of liquids in the line, not inserting foreign objects into the discharge hole, if any, substances that are likely to cause explosion and fire such as fire, sparks and cigarettes due to the product contains flammable gas in the area and near the product ensure that it is not available or used.

Except for the parts supplied with the product and its box, non-original and parts that are not supplied by our company should not be used. Contact us to procure spare parts when necessary. All necessary procedures and precautions should be taken considering that it may be exposed to natural events including earthquake, flood, etc. At the end of service life of an item, the products should be replaced with new ones. For the recycling of the products removed from the line at the end of their service life, the manufacturer or the relevant companies in compliance with the legislation should be contacted.

Keep this instruction in a safe area after all operations. The manufacturer is not responsible for situations like failure, damage, accident, etc. occurring due to non-compliance with the rules and information in this instruction. Do not exceed the technical limits in this instruction.

For ERG-EH series; do not try to dislodge the shut-off lance 18 of the product during use and at any stage in this manual, do not allow it to be exposed to mechanical damage, do not move it unnecessarily, and do not apply excessive force.

Since ERG-H series products do not have a safety shut-off device that closes them at excessively high and low outlet pressures, additional precautions should be taken regarding unwanted excessive pressure increases and decreases that may occur at the line outlet in case these products are used.

2-OPERATING CONDITIONS AND TECHNICAL SPECIFICATIONS:

The gas pressure regulator helps the devices that come after itself on the gas line function safety. Gas pressure regulators reduce the inlet pressure to the desired/set outlet pressure and maintain the outlet pressure within the tolerance range.

Gas pressure regulators can have a relief system if requested in the order. There may be a temporary discharge of gas to the atmosphere from the auxiliary equipment of the regulators. In this case, all necessary precautions regarding the gas to be discharged must be taken before installation. The details of the safety shut off systems (OPSO-UPSO) (only for ERG-EH series) and the evacuation system, if there is any, on the product are shown in Figure-A1.

In addition, ERG-EH series products; In case the outlet pressure rises and/or drops to undesirable levels above the safety setting pressure, it automatically detects this situation and automatically cuts off the gas in the line and remains closed until it is re-established manually. These regulators have a high pressure and/or low pressure gas safety shut-off device.

Gas pressure regulators are single stage and spring loaded.

The technical specification ranges of the products are as follows. These values are outlet flow from product to product, may vary within itself depending on the factors like outlet pressure, inlet pressure range, etc.. The final technical information of the product is indicated on the label on the product. Under no circumstances should the product be used outside of the following limitations.

Model - Series: ERG-EH Series (With Safety Shut Off Device) and ERG-H Series (Without Safety Shut Off Device)

Field of Use: Gas line applications

Appropriate Fluids: Group 1 Gas Phase (Natural Gas, LPG etc. Non Corrosive Fluids)

Maximum Allowable Pressure (PS): PS1, PS2, PS3, PS4, PS5 / PSD1

Connection: DN15, DN20, DN25, DN32, DN40, DN50 Gear (modular connection on request)

Operating Temperature Range: -10 °C; 60 °C or -20 °C; 60 °C

Weight: For ERG-EH; DN15-DN20-DN25: 1.7 kg, DN32-DN40-DN50: 3,8kg For ERG-H; DN15-DN20-DN25: 1.5 kg, DN32-DN40-DN50: 3,6kg

Connection Wise: Inline

Accuracy Class - Outlet Pressure Tolerance: AC5/AC10

Locking Pressure Class: SG10/SG20/SG30

Accuracy Group: AG10/AG20 (only for ERG-EH series)
Outlet Pressure Adjustment Range (Wd-Wh): 12-500-mbar

High Pressure Safety Shutdown Adjustment Range (Wdo) 35-1150 mbar (only for ERG-EH series) Low Pressure Safety Shutdown Adjustment Range (Wdu):8-125 mbar (only for ERG-EH series)

Working Pressure Range (bpu-bpe): 0,1-5 Bar

Materials: Body and Cover Aluminum Cast Alloy EN 1706, Brass Parts EN 12164-EN12165

Applied Regulations: 2014/68/AT Pressure Vessels Regulation (PED)



Figure – A1

3-ASSEMBLY

Before assembly, determine and make sure that the product should be used, check the pressure and other information on the label on the product, check that the right choice has been made, examine the label information with great care, especially because it symbolizes the product, and check the auxiliary parts that may be on or inside the product and box (make the necessary verifications by comparing the protection caps 1 and 19, protection plugs on the connections if any, pressure adjustment seals, if any, discharge protection plug), the line to be installed, as well as the line and the product features, and make sure that they are verified. (operating pressure range, outlet pressure, fluid, flow rate, environmental conditions, line and fluid cleanliness, mutual connection type and diameter selections, line and product dimensions suitability, etc.)

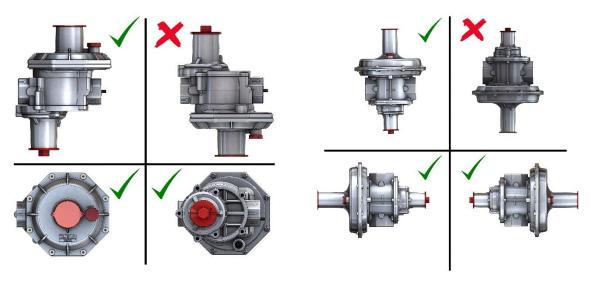
The line to be installed must have an inlet and outlet shutoff valve before and after the regulator. Before and during installation, make sure that there is no compressed pressurized gas trapped between the line and the product, the gas supply is shut off and the possibility of opening is completely avoided. Before assembly, check that there is no damage to the product. Before installation, it should be checked that the line pressure is within the inlet pressure range specified on the product label and that the regulator capacity will not be exceeded during use. Before assembly, sufficient buffer zones should be left at the line outlet after the regulator. Necessary measures should be taken to prevent noise and vibration from the line. There should be no axial misalignment on the line to be mounted. Before assembly, take appropriate measures to reduce bending and torsional loads caused by pipes and vibration at the line entrance and exit, ensure that there are no diameter contractions and expansions in short distances at the product entrance and exit on the line to be installed considering test, maintenance, disassembly etc., in any case, check that the inlet pressure of the product is and will be higher than the outlet pressure of the product, clean the inside of the pipe with compressed air while the product is not yet attached to the line, and purify the pipeline from foreign objects such as welding particles, dirt etc., in general, check the line and the system for pressure and tightness, In order to filter the gas before the gas pressure regulator, ensure that an external filter is installed in order to filter the gas before the gas pressure regulator, directly external environment and external corrosion conditions of the products by taking the necessary precautions so that it is not exposed to possible external damage and impact. (sun, atmosphere, rain, snow, humidity, water, external chemicals, etc.).

To start the assembly; If there is, remove the inlet-outlet connection protection plugs manually, adjust the flow direction of the product so that the arrow on the product body points to the outlet side and the gas flow direction. Adjust to the appropriate position as indicated in Figure- A2, and if the fluid is LPG, adjust it to the appropriate position by ensuring that the regulator outlet side faces downwards. Tighten the and outlet connections sufficiently by using suitable wrenches, making sure that they do not cause external leakage without applying excessive load, force and impact. After tightening, check that the connections are fully seated in their sockets, that there are no mechanical problems such as cracks etc. make sure that in the connections, that there is no mechanical stress on the product due to the line, pipe and connection.

Relevant limitations on counter forces and moments originating from pipes and connections must be observed. If fasteners larger than the connection diameter on the body of the product are attached to the inlet and outlet of the product for assembly, forces and moments exceeding the values required by the main connection diameter on the body should not be applied and limitations should not be exceeded.

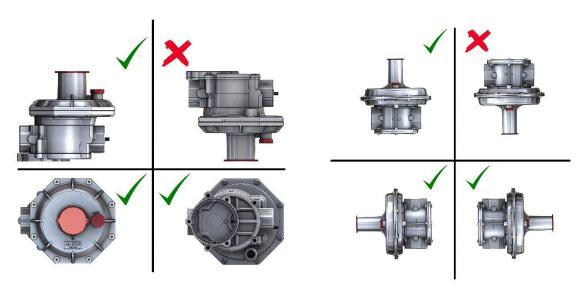
The products should not be used in floor type applications.

When necessary (use of the regulator in closed areas, etc.), an exhaust line should be connected to the breather console of the regulator. This connection must be at least DN10 threaded. A threaded adapter that may be required for this connection should be requested and used. Gas pressure regulators with evacuation system should not be installed and used in closed areas without taking the necessary precautions (for example, transporting and mixing the gas to be discharged to the outside atmosphere conditions with a pipe of at least DN 10, etc.) to transport the gas to be evacuated to the safe area (atmosphere).



ERG-EH Series DN15-DN20-DN25

ERG-EH Series DN32-DN40-DN50



ERG-H Series DN15-DN20-DN25

ERG-EH Series DN15-DN20-DN25

ERG-H Series DN32-DN40-DN50

ERG-H Series DN15-DN20-DN25

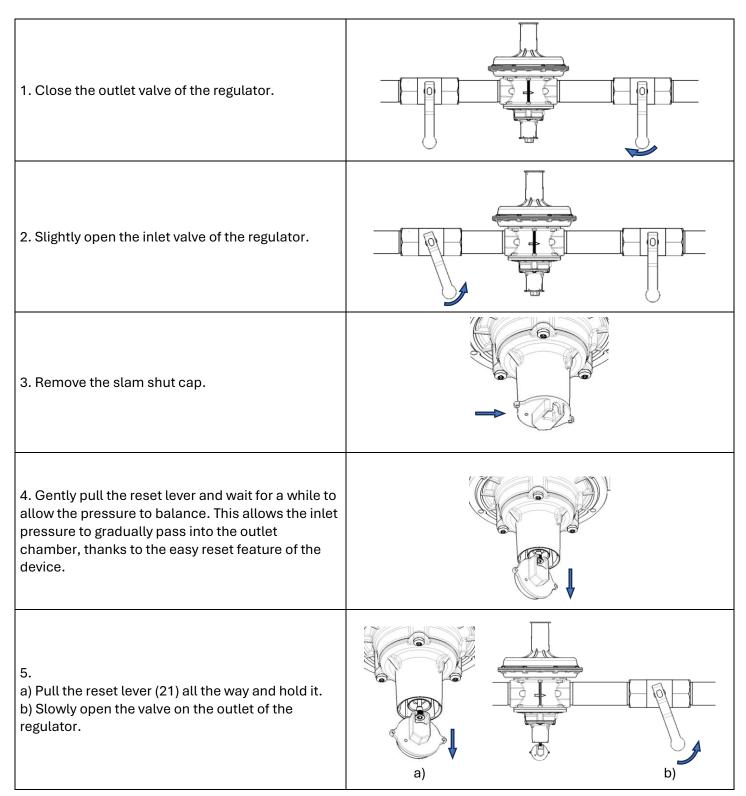
Figure-A2

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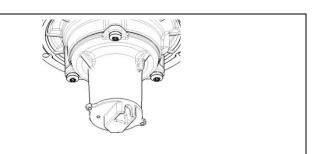
4-INSTALLATION, START-UP AND OPERATING

Before installation, check and ensure that all users and people on the outlet side are not using (devices are turned off), do not change the factory settings. Factory settings have been adjusted according to the desired values in the order specification and are indicated on the label. Adjustment devices are sealed if requested in the order specification.

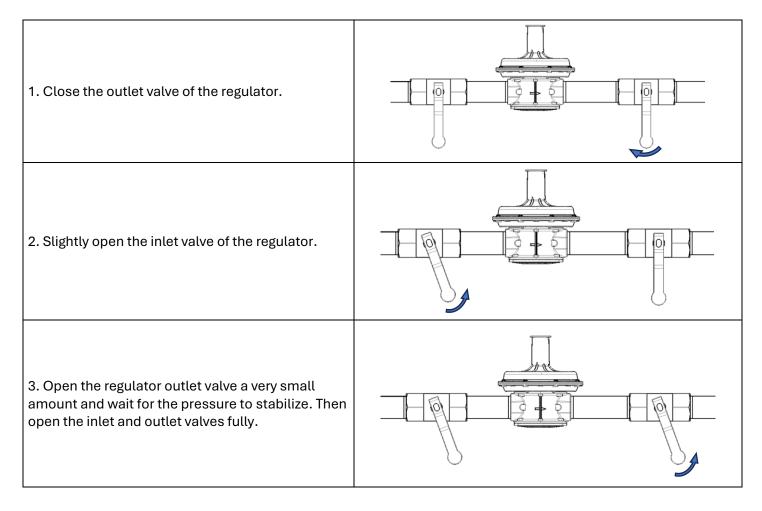
Installation Instructions of ERG-EH series;



6. Then, screw the slam shut cap (19) back into its original position. Fully open the inlet and outlet valves.



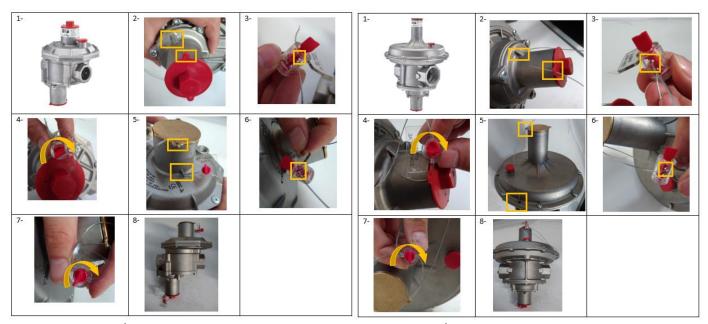
Installation Instructions of ERG-H series;



After ERG-EH and ERG-H Series products are installed; if there is an evacuation system in the product, check that the released gas can mix with the atmosphere and its gas tightness with appropriate foam, detector, etc., inform gas users about the use of gas.

Depending on the temperature difference during the installation process or seasonal transitions, there may be instantaneous gas escape from the discharge section of the product and this is normal. It is important that the gas outlet in question does not continue, if it continues, it can be considered that there is a malfunction in the product.

If the installation process does not take place, please contact us.



ERG-H / ERG-EH DN15-DN20-DN25

ERG-H / ERG-EH DN32-DN40-DN50

Figure-A3 Sealing Illustration

After Installation;

Outlet pressure, accuracy class, locking class and internal leakage, discharge pressure, high and/or low pressure shut-off pressures, accuracy classes and internal tightness should be checked.

While performing these operations, take all necessary precautions to prevent the gas discharge or external leakage from the regulator from creating a dangerous atmosphere.

Close the outlet valve completely,

On the outlet line; connect the relevant pressure gauge and pressure generation source to the appropriate test valve between the regulator and the outlet valve in a tight and secure manner,

By creating an artificial gas consumption in the regulator line, measure the outlet pressure and check its compliance within tolerances.

Then set the artificial capacity to zero, wait for a while and check the locking class and internal leakage.

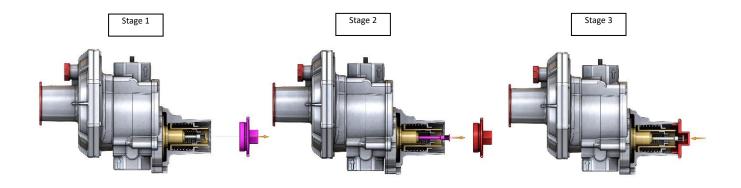
Check the discharge pressure of the regulator by gradually increasing the pressure with the pressure builder source, By continuing to increase the pressure, that the shut-off lance no 18 closing will be observed, and the high pressure closing pressure, accuracy class and internal leakage at this value will be tested.

Close the inlet valve, reinstall the product, gradually evacuate the gas in the outlet pipeline, observing that the shut-off lance 18 is closed, the low pressure closing pressure, accuracy class and internal leakage at this value are tested. Disconnect the pressure source, close the test valves, check that there are no external leaks in the line and the product, and reinstall the device following the rules in this instruction.

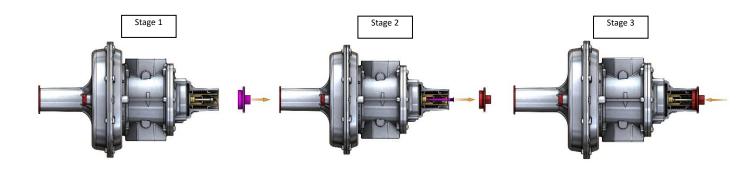
NOTE: Never touch the outlet valve while creating artificial capacity. Do not apply a pressure higher than 1.5 times the outlet pressure for ERG-H and 1.2 times the OPSO pressure for ERG-EH to the product in reverse.

In ERG-EH series, if the gas pressure regulator is closed for various reasons during operation, the inlet and outlet valves should be closed, the problem should be determined by the relevant authorities (if necessary, the product should be removed from the line), if the problem cannot be determined, the manufacturer should be contacted and reassembled according to the above rules after the problem is solved and should be reinstalled. During operation, the outlet pressure may increase due to the fact that the gas is not clean and due to foreign objects in the line, internal leakage, vent line clogging, product malfunction etc. and the high pressure safety shut-off device of the product may close and the gas may be cut off. During operation, if the outlet pressure of the regulator drops excessively for various reasons and reaches the set safety pressure, the low pressure safety shutdown system is activated and the gas passage can be closed. In both cases, it is necessary to redo the installation process.

Note: In no case, operations that will cause a pressure of more than 6 bar to the inlet connection port of the product and more than 1 bar to the upper cover part where the outlet pressure settings of the product are made should not be performed and this situation should not be allowed to occur.



ERG-EH Series DN15-DN20-DN25



ERG-EH Series DN32-DN40-DN50

Figure-A4

5-SETTINGS

When necessary for various reasons, the product's outlet pressure and, if any, safety shutdown pressure settings (for ERG-EH series) should be made as follows.

The settings should not be changed more than ± 10% and/or beyond the limits on the label.

Seals, if any, are removed on the relevant adjustment parts of the product. Adjustment mechanisms and springs should not be over-compressed and forced while making pressure adjustments. In order to see the values of the settings, connect the pressure gauge or manometer to a suitable test valve in the pipe between the regulator and the outlet valve and monitor the pressure by making consumption within an appropriate artificial capacity range. In all adjustments to be made, a pressure increase in clockwise rotations and a decrease in pressure in counterclockwise rotations are provided. In ERG-EH series, when the adjusted outlet pressures are increased, the safety pressures should increase, and when they are decreased, the safety pressures should decrease.

To change the outlet set pressure; If there is, remove the relevant seal, remove the cap 1 by turning it counterclockwise manually, turn the adjusting screw 2 in the appropriate direction with the appropriate hexagon wrench, mark the adjusted pressure.

To change the high pressure safety pressure in ERG-EH series; if there is, remove the relevant seal, remove the cap 19 by turning it counterclockwise manually, turn the adjusting ring 16 in the appropriate direction with the appropriate hexagonal wrench, mark the adjusted pressure.

To change the low pressure safety pressure in ERG-EH series; if there is, remove the relevant seal, remove the cap 19 manually by turning it counterclockwise, turn the adjusting ring 14 in the appropriate direction with the appropriate hexagonal wrench, mark the adjusted pressure.

After the adjustment changes, check with appropriate methods that the technical specifications and limits in this manual and on the label on the product are not exceeded. It is recommended to seal the adjustment devices so that the settings are not changed after the relevant pressure settings are made or for the products that are put into use in the field. The seal in the box, if any, can be used for this process.

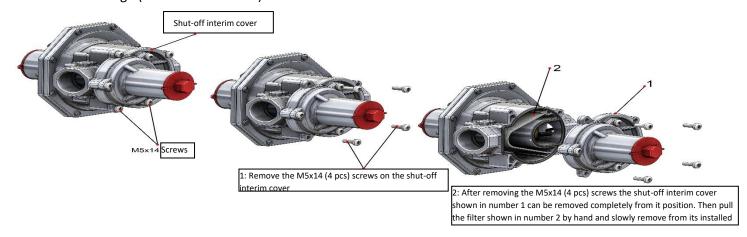
6-PERIODIC MAINTENANCE AND INSPECTION

For the regulator to work healthy and securely, periodic maintenance-inspection are recommended. The periodic maintenance and inspection frequencies should not exceed the period indicated by the gas institution or the legislation. The maintenance period should be adjusted according to the working conditions.

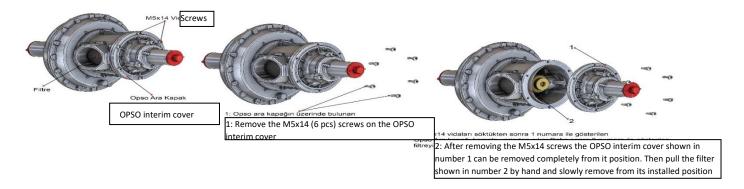
In all operations, the rules in this guide should be followed. In any situation, do not abruptly discharge in order to clean the line after the regulator or to perform maintenance-inspection on the product.

For periodic maintenance, remove it from the line in conformity to the removal rules in these instructions. Remove the cover screws on the regulator with proper tools not to cause stress and remove the covers by hand. (If the cover screws have seals like paint-lacquering etc. on, do not perform these operations and maintenance, and send the product to our firm.) Do not remove the parts in the removed covers, keep the covers as a whole together with the parts within and clean them with a clean cloth slowly.

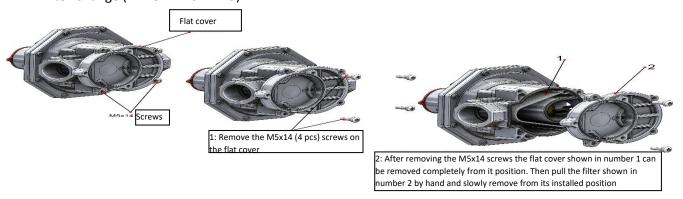
ERH-EH filter change (DN15-DN20-DN25)



ERH-EH filter change (DN32-DN40-DN50)



ERH-H Filter Change (DN15-DN20-DN25)



ERG-H Filter Change (DN32-DN40-DN50)

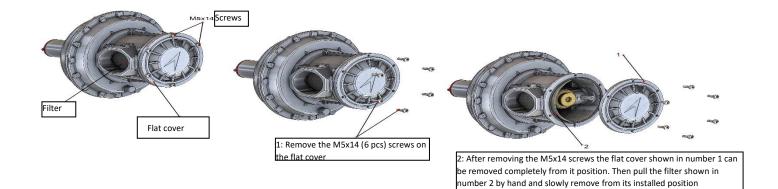


Figure-A5

After the filter change operation, using the same cover screws, via tightening the screws in opposite sides without causing stress and by aligning the holes, without applying extreme force, install them back to their place, make sure that they are not loose and there is no mechanical damage. Install the product with completed maintenance on the line according to these instructions and operate.

In any case, do not perform maintenance while the product is installed on the line.

For periodic maintenance, check that the entry and exit valves are open and there is pressure at exit. Via using proper foam, liquid or detector etc. methods, check all the external sections including connections and ensure that there are no leaks and that there is no extreme noises and vibration on the line and the product. In addition, review the process of "exit pressure, high pressure shut-off, low pressure shut-off, discharge functions testing" explained in the installation section of these instructions via taking all the security measures.

After the related maintenance and inspection operations, check that all accessories and apparatus like shut-off protection cover no. 19 (for ERG-EH series), pressure adjustment seals – if any, discharge protection stopper, discharge filter etc. are installed on the product.

Note: In any case, ensure in any condition to cause a gas release to the atmosphere from the product or the line that it is not in closed space, no dangerous atmosphere is formed and shall not form, the necessary lines are opened to the atmosphere.

During the periodic maintenance and inspection, if any problems are detected, according to the rules indicated in the malfunction section, the operations can be conducted. If the product do not run, contact the manufacturer firm.

7-CUT-OUT, REMOVAL AND REPLACING

Before, during and after all removing and replacing, follow all the rules indicated in this guide and conduct the required operations. Before an during the removal and replacement operations, provide that there is no pressurized gas compress in the line the product is on and between the line and the product, that the gas feed is closed and prevented completely to be opened.

Close the entry and exit valves on the line in front and back of the regulator, discharge the compress gas left between the line and the product safely and gradually from the section between the gas pressure regulator and the exit valve in accordance with the legislation. Remove the entry and exit connections of the product from the line using proper wrenches via turning, without applying extreme load and force. If a new product replacement is to be performed, install the new product in accordance with these instructions and operate.

8-MALFUNCTION – REPAIR – PROBLEMS AND SOLUTIONS

Before, during and after all malfunction operations follow all the rules indicated in this guide and conduct the required operations, especially take necessary precautions regarding the informing of the final users and against pressurized gas dangers.

In suspicion of a malfunction, it is recommended that you perform the operations indicated on table 1 according to the problem type, if you wish not to perform these operations or if the problem is not resolved even though you did,

without intervening further with the product, without trying to open it up or repair it, uninstall it from the line following the uninstallation rules indicated and send it to our firm, install a new product on the line. In any case, do not perform any repair, modification or restoration operations to intervene with the internal parts of the product. The repair and restoration should be performed on empty systems and even on uninstalled products.

MALFUNCTION TYPE	PROBABLE CAUSE	SOLUTION
Regulator is not working as	The pressure setting wished to be adjusted on the	Change spring.
intended or	line can be out of the range of spring on the	
Faulty interventions	regulator. The settings of the springs on the regulator could be	Set the spring.
	done wrong.	Set the spring.
	The flow capacity of the line may be exceeding the	Change the product
	product capacity:	
	On the product-line-signal pipe: the signal lines may	Replace the signal line.
	be installed not properly, clogged, bended, leaking or	
	in turbulence field.	Dead's at the Ch. teffic ODCO at tIDCO at the area's
	Exit pressure can be out of the shut-off setting range.	Readjust the Shutoff's OPSO or UPSO setting again according to the exit pressure.
	Regulation shaft can be malfunctioning.	Replace the regulation shaft.
	The ventilation, discharge hole can be clogged or	Clean the ventilation-discharge hole and take measures.
	restricted.	
	Replaceable Orifice mouth can be damaged.	Replace the orifice
In the regulator, at Q=0 flow	Regulation valve can be damaged, worn, torn etc	Replace the valve
rate, the exit pressure		
continuously rises and when discharge pressure is	Balancing diaphragm can be damaged.	Replace the balancing diaphragm
reached, it gets stable and	One of the O-rings at the regulation valve mechanism-set can be damaged.	Replace the o-rings
leaks.	There can be dirt, burr etc. in between the regulation	Clean.
	valve and the orifice.	5.55
	Moving parts can be contaminated with foreign	Clean the moving parts.
	material.	
	Trigger mechanism can be damaged.	Replace the mechanism.
While flow rate increases in	Regulation diaphragm can be damaged	Replace the regulation diaphragm
the regulator, increase in the	Balancing diaphragm can be damaged.	Replace the balancing diaphragm
exit pressure	There can be parrowing at the fittings connected to	Poplace with the fittings conforming to the line size
	There can be narrowing at the fittings connected to the regulator exit.	Replace with the fittings conforming to the line size. (ensure that the gas speed in the line is ≤25 m/s)
No gas in the regulator	No gas may be coming to the product.	Check the gas facility before the regulator.
	Shutoff can be closed.	Unlock the Shutoff.
	There may be no entry pressure.	Check the entry pressure.
	There can be icing due to humidity.	Check whether the water that may penetrate the line or
		the product is frozen.
	Filter can be clogged.	Check the filter, if needed, replace the filter cartridge.
	Moving regulation mechanism parts can be stuck due to dirt in the line.	Clean the moving parts and their bushings.
Regulator gives wrong exit	There can be the wrong regulator spring	Replace with the proper spring.
pressure	Desired exit pressure can be outside the exit	Change the regulator model.
F	pressure range of the product.	onange the regulator model.
	Entry pressure can be low.	Check the gas facility or select the right regulator.
	The use in the line can be different from the desired	Accurately measure the use (flow rate) in the line,
	number.	compare the product, if needed change the regulator.
	On the product-line-signal pipe: the signal lines may	Replace the signal line.
	be installed not properly, clogged, bended, leaking or in turbulence field.	
	in turbulence nelu.	
While no flow in the		
regulator; exit pressure is	The signal lines may be clogged, closed or bent.	Replace the signal line and ensure it is open.
equal to the entry pressure.	Regulation diaphragm can be damaged	Replace the regulation diaphragm
	Balancing diaphragm can be damaged.	Replace the balancing diaphragm
or	Control plate socket can be damaged.	Replace the control plate socket.
while there is flow in the	There can be a jam at the moving parts.	Check the moving parts and their bushings, and resolve
regulator; exit pressure is	Shutoff's o-rings can be damaged	the jam. Replace the Shutoff's o-rings
equal to the entry pressure	Shutoff's o-rings can be damaged. o-rings at the regulator can be damaged.	Replace the snuton's o-rings Replace the regulator's o-rings
	o-rings at the regulator can be damaged.	Replace the regulator's o-rings
or	Replaceable Orifice mouth can be damaged.	Replace the orifice
gas coming out of the air	Regulation valve can be damaged, worn, torn etc	Replace the valve
gas coming out of the air	Regulator can be connected in reverse	Connect the regulator in the correct flow direction
Intake connection at the		1
intake connection at the regulator.		
regulator. When the flow rate is	The capacity usage may be exceeding the capacity of	Check that the product is not selected wrong regarding
regulator.	The capacity usage may be exceeding the capacity of the regulator.	Check that the product is not selected wrong regarding the flow rate and exit pressure, if necessary replace the regulator model

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			to sudden stop of boiler, heater etc.
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Exit setting pressure can be	set wrong. Measure the exit setting pressure and correct if faulty.
Diameter narrowing at exit s	sense line. Check if there is a narrowing at exit sense line.
SSD setting pressure can be	set wrong. Measure the SSD setting pressure and correct if faulty.
The product can be incorrec	tly assembled. Try to reassemble the product.
Problem can be not detected	d. Replace with new product.

9-DIMENSIONS, LINE CONNECTIONS AND PART INFORMATION

Dimensions are in mm.

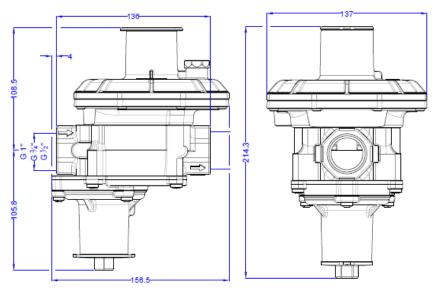


Figure-A6 (For ERG-EH Series Products DN15-DN20-DN25)

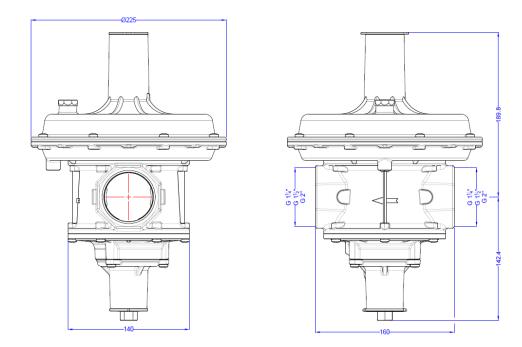


Figure-A7 (For ERG-EH Series Products DN32-DN40-DN50)

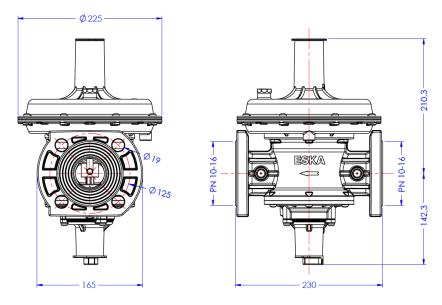


Figure-A8 (For ERG-H Series Flanged Products DN50)

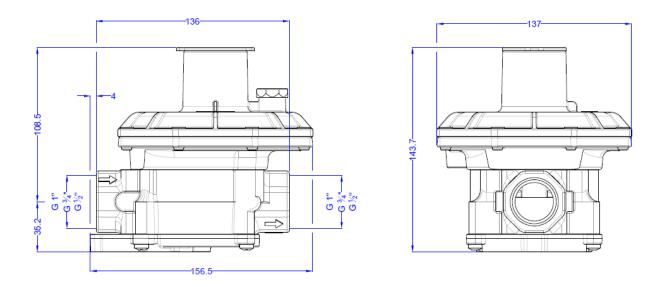


Figure-A8 (For ERG-H Series Products DN15-DN20-DN25)

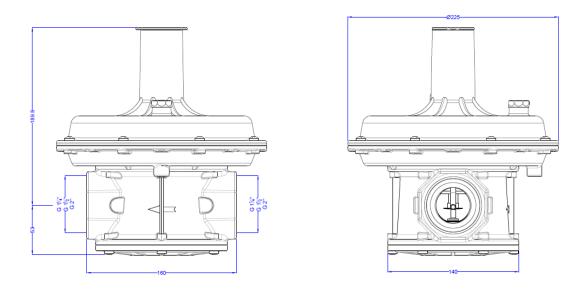


Figure-A9 (For ERG-H Series Products DN32-DN40-DN50)



Figure-A10 (For ERG-EH Series Products)

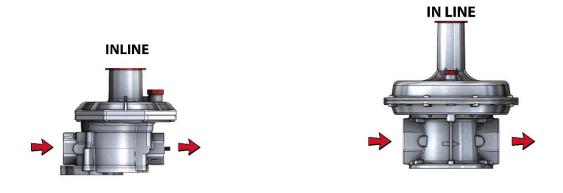


Figure-A11 (For ERG-H Series Products)

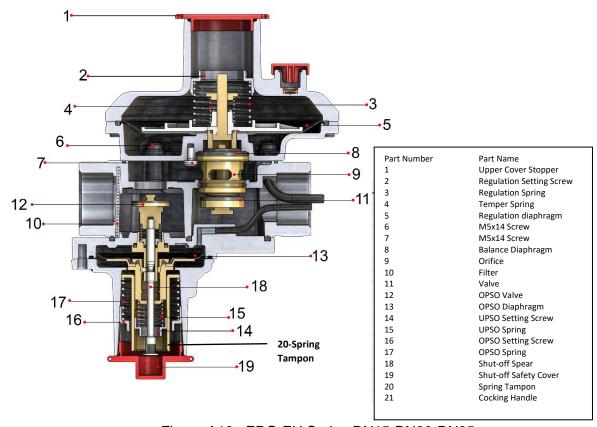
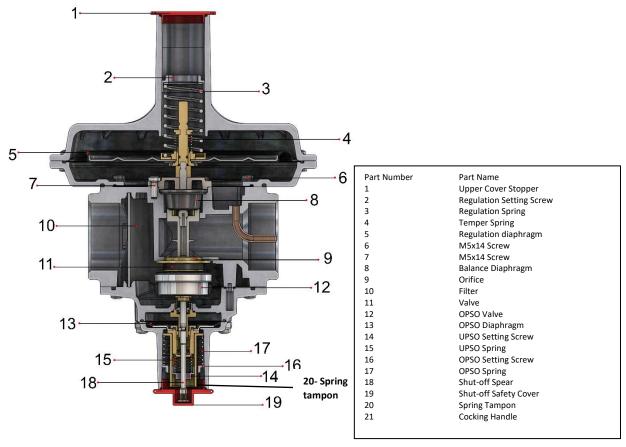
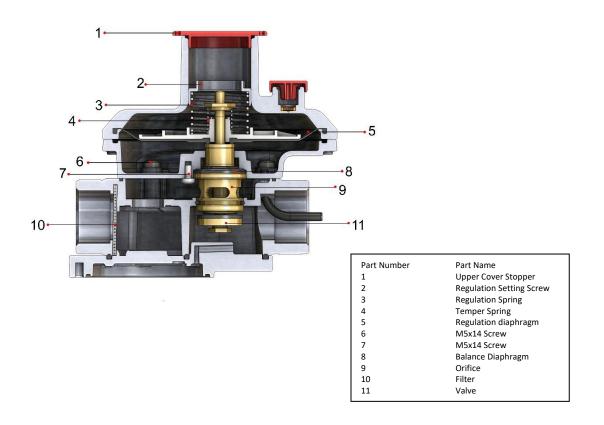


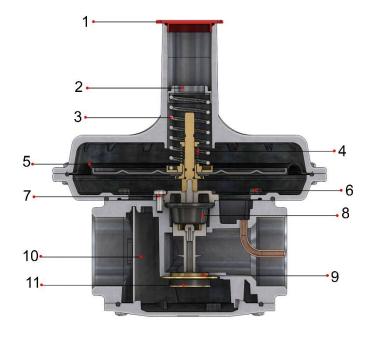
Figure-A12 ERG-EH Series DN15-DN20-DN25



Şekil-A13 ERG-EH Series DN32-DN40-DN50



Şekil-A14 ERG-H Series DN15-DN20-DN25



Part Number	Part Name
1	Upper Cover Stopper
2	Regulation Setting Screw
3	Regulation Spring
4	Temper Spring
5	Regulation diaphragm
6	M5x14 Screw
7	M5x14 Screw
8	Balance Diaphragm
9	Orifice
10	Filter
11	Valve

Şekil-A15 ERG-H Series DN32-DN40-DN50

10-LABEL INFORMATION

ERG-EH Series DN15-DN20-DN25-DN32-DN40-DN50 and ERG-H Series DN32-DN40-DN50

ESKA		ESKA VALVE A.Ş. Sakarya-TURKEY www.eskavalve.com	2354
Gas Pressure Regulator			
Model No - Series		PS / PSD	/ 1 bar
DN		bpu-bpe	bar
Туре	DS	Wds	mbar
TS		Wdso	mbar
Serial No		Wdsu	mbar
Pro. Date		DvRf	mbar
AC-SG-AG (%)		Pds-Pas	mbar

ERG-H Series DN15-DN20-DN25

		ESKA VALVE A.	ş.
ESKA	Sakarya-TURKEY		
	www.eskavalve.com		
	Gas P	ressure Regulator	
Model No - Series		PS / PSD	/ 1 bar
DN		bpu-bpe	bar
Туре	DS	Wds	mbar
TS		DvRf	mbar
Serial No		Pds-Pas	mbar
Pro. Date			mbar
AC-SG (%)			mbar

Note: At ERG-H series products on DN15-20-25 diameters CE mark shall not be placed.

Pds-Pas: Exit Setting Pressure

TS: Operational Ambient Temperature Range

PS: Permitted Maximum Pressure

PSD: For Sections with different Strength Maximum Strength Pressure

bpu-bpe : Entry Pressure RangeDN : Connection DiameterWds : Exit Pressure Range

Wdso: High Pressure Safety Shut Off Range
Wdsu: Low Pressure Safety Shut Off Range

AC : Accuracy Class – Outlet Pressure Tolerance

SG : Locking Pressure Class

AG : Accuracy Group

11-STORAGE - KEEPING- HANDLING- TRANSPORTATION - LOADING - SHIPMENT

Do not remove the products from their original boxes and packages until usage shall start, to not replace their boxes and packages with others. Store and keep the products and spare parts in closed and ventilated areas, under clean room conditions. During transport, shipment and storage protect the products from rain, water, snow, extreme hot and cold etc. Ensure that the floors where the operations take place are flat and clean, and not wet and slippery. During transport do not overload or lift extreme. Give special care to extrusions and external parts.





EU DECLARATION OF CONFORMITY

AB UYGUNLUK BEYANI

According to Pressure Equipment Directive (2014/68/EU)

Basınçlı Ekipmanlar Yönetmeliği'ne Göre (2014/68/AB)

Declaration Number (Deklarasyon No)

DEC_013_R01

Manufacturer and Owner Of Certificate (Üretici ve Sertifika Sahibi Adı)

ESKA VALVE A.Ş.

Trade Mark (Ticari Marka)

ESKA VALVE / ESKA

Manufacturer Adress and Place (Üretici Adresi ve Üretici Yeri)

Sakarya 1. Organize Sanayi Bölgesi Mahallesi, 11. Cadde, No:6-8, Arifiye/Sakarya/Türkiye

Product Description (Ürün Tanımı)

ERG-EH Series Gas Pressure Regulator With Safety Shutoff Valve ERG-EH Serisi Emniyet Kapatmalı Gaz Basınç Regülatörü ERG-H Series Gas Pressure Regulator Without Safety Shutoff Valve

ERG-H Series Gas Pressure Regulator Without Safety Shutoff Valve ERG-H Serisi Emniyet Kapatmasız Gaz Basınç Regülatörü

Product Model / Type / Serie (Ürün Modeli / Tipi / Seri)

ERG-H and ERG-EH Series ERG-H ve ERG-EH Serisi

Product Information (Ürün Bilgileri)

PS1, PS2, PS3, PS4, PS5, PS6, PSD1, TS: -10;60°C, -20;60°C or on request with (-40;60°C), DN50 Flange Connection PN16 or Class 150 and DN15, DN20, DN25, DN32, DN40, DN50 for ERG-EH, DN50 Flange Connection PN16 or Class 150 and DN32, DN40, DN50 for ERG-H, Thread Connection (on request with modular connection), AC 5/10, SG 10/20/30, AG 10/20 (only for ERG-EH)

PS1, PS2, PS3, PS4, PS5, PS6, PSD1, TS:-10;60°C, -20;60°C veya istek üzerine (-40;60°C), DN50 Flanşlı Bağlantı PN16 yada Class 150 ve DN15, DN20, DN25, DN32, DN40, DN50 ERG-EH için, DN50 Flanşlı Bağlantı PN16 yada Class 150, DN32, DN40, DN50 ERG-H için Dişli Bağlantı (istek üzerine modüler bağlantı), AC 5/10, SG 10/20/30, AG 10/20 (yalnızca ERG-EH)

Declaration Issue Date (Deklarasyon Yayın Tarihi) 13.08.2024

The name of the Notified Body and No (Onaylanmış Kuruluşun Adı ve Numarası)

TÜV NORD Turkey Teknik Kontrol ve Belgelendirme Incorporated Company – NB 2354

EU Conformity Assessment Method (AB Uygunluk Değerlendirme Yöntemi)

2014/68/EU PED Category IV, Modul B+D

Modul B Certificate No / Valid Until Modul D Certificate No / Valid Until

CR-PED-TUVNORD-24/1810-R00 / 13.08.2034 CR-PED-TUVNORD-24/1819-R00 / 15.08.2027

Declaration (Deklarasyon)

Up defined in our products, we declare that meets the essential safety requirements of the directives to in this document. This declaration of conformity has been published under the responsibility of Eska Valve A.Ş.

Yukarı da tanımlanan üzerinde seri no olan ürünlerimizin, bu belgede belirtilen yönetmeliklerin temel güvenlik gerekliliklerini karşıladığını beyan ederiz. Bu uygunluk beyanı Eska Valve A.Ş. nin sorumluluğu altında yayınlanmıştır.

The compliance with Directives applies only to the product if the product is integrated in a system or combined with other units .The system manufacturer is responsible fort he compliance of the complete system with Directives. By altering the device without approval the declaration would invalidate.

Ürünün bir sistemle entegre olarak ya da diğer bir birimle birleştirilerek kullanıldığı durumlarda direktiflerle uyumluluk yalnızca ürünü kapsar. Sistem üreticisi sistemin tamamının direktiflere uyumluluğundan sorumludur. Onayımız alınmadan cihaz üzerinde değişiklik yapıldığında bu beyan geçerli değildir.

Note (Not)

Manufacturers Authorized Signature (Üretici İmza Yetkilisi)

Erhan SARDAL

General Manager (Genel Müdür)
Sakarya/Türkiye, 13.08.2024
ANONIM ŞİRKETI

VALVE ANONIM SIRKETI Sakarya 1. Organize San. Bölg. Mah. 11. Cad. No: 6/8 Arifiye-SAKARYA Alifuat Cebesoy V.D. 380 110 2771 Mersis No: 0380-1102-7710-0001 .



EU DECLARATION OF CONFORMITY AB UYGUNLUK BEYANI

According to Pressure Equipment Directive (2014/68/EU)

Basınçlı Ekipmanlar Yönetmeliği'ne Göre (2014/68/AB)

Declaration Number (*Deklarasyon No*)

Manufacturer and Owner Of Certificate (Üretici ve Sertifika Sahibi Adı)

Trade Mark (Ticari Marka)

Manufacturer Adress and Place (Üretici Adresi ve Üretici Yeri)

Product Description (Ürün Tanımı)

Product Model / Type / Serie (Ürün Modeli / Tipi / Seri)

Product Information (Ürün Bilgileri)

Declaration Issue Date (Deklarasyon Yayın Tarihi)

EU Conformity Assessment Method (AB Uygunluk Değerlendirme Yöntemi)

Declaration (Deklarasyon)

Note (Not) DEC_014_R00

ESKA VALVE A.S.

ESKA VALVE / ESKA

Sakarya 1. Organize Sanayi Bölgesi Mahallesi, 11. Cadde, No:6-8, Arifiye/Sakarya/Türkiye

ERG-H Series Gas Pressure Regulator Without Safety Shutoff Valve ERG-H Serisi Emniyet Kapatmasız Gaz Basınç Regülatörü

ERG-H Series ERG-H Serisi

PS1, PS2, PS3, PS4, PS5, PS6, PSD1, TS: -10;60°C, -20;60°C or on request with (-40;60°C), DN15, DN20, DN25 Thread Connection (on request with modular connection), AC 5/10, SG 10/20/30

PS1, PS2, PS3, PS4, PS5, PS6, PSD1, TS: -10;60°C, -20;60°C veya istek üzerine (-40;60°C), DN15, DN20, DN25 Dişli Bağlantı (istek üzerine modüler bağlantı), AC 5/10, SG 10/20/30

01.11.2020

2014/68/EU PED Sound Engineering Practice (SEP)

We declare that our products with a serial number as defined above meet the requirements 2014/68/EU PED- Pressure Equipment Directive Article 4 item 3 . These equipments designed and manufactured in accordance with the sound engineering practice (SEP) of a Member State in order to ensure safe use. However, These equipments should not bear the CE mark in accordance with Article 4 item 3.

Yukarı da tanımlanan üzerinde seri no olan ürünlerimizin, 2014/68/AB-Basinçli Ekipmanlar Direktifi Madde 7 (3) uyarınca güvenli kullanımı sağlamak için geçerli genel kabul görmüş mühendislik uygulamasına (SEP) uygun olarak tasarımlanmış ve imal edilmiştir. Bununla birlikte 2014/68/AB-Basinçli Ekipmanlar Direktifi Madde 7 (3) gereği bu ekipmanlara CE işareti taşımaması gerektiğini beyan ederiz.

The compliance with Directives applies only to the product if the product is integrated in a system or combined with other units. The system manufacturer is responsible fort he compliance of the complete system with Directives. By altering the device without approval the declaration would

Ürünün bir sistemle entegre olarak ya da diğer bir birimle birleştirilerek kullanıldığı durumlarda direktiflerle uyumluluk yalnızca ürünü kapsar. Sistem üreticisi sistemin tamamının direktiflere uyumluluğundan sorumludur. Onayımız alınmadan cihaz üzerinde değişiklik yapıldığında bu beyan geçerli değildir.

Manufacturers Authorized Signature (Üretici İmza Yetkilisi)

Erhan SARDAL

General Manager (Genel Müdür) Sakarya/Türkiye, 01.11.2020

> VALVE ANONIM ŞİRKETİ Sakarya 1. Organize San. Bölg. Mah. 11. Cad. No: 6/8 Arifiye-SAKARYA Alifuat Cebesoy V.D. 380 110 2771 Mersis No: 0380-1102-7710-0001

WARRANTY CERTIFICATE

Manufacturer or Importer Firm's;

Title: ESKA VALVE A.Ş.

Address: Sakarya 1. Organize Sanayi Bölgesi Mahallesi, 11. Cadde, No: 6-8, Arifiye/Sakarya/Turkey

Telephone: +90 (264) 502 54 34-35-83

Fax: +90 (264) 502 54 84 E-Mail: info@eskavalve.com

Authorized Signature: Company Stamp:

Vendor Firms;

Title: Address: Telephone:

Fax: E-Mail:

Authorized Signature: Company Stamp:

Products

Type: Gas Pressure Regulator Brand: ESKA / ESKA VALVE Model: ERG-EH and ERG-H Warranty Period: 2 years

Maximum Repair Period 20 workdays

Invoice Date and Number:

Date of Delivery to the Consumer: Place of Delivery to the Consumer:

Banderol and Serial No:

WARRANTY TERMS

- 1) The warranty period starts on the date of delivery of the product and is 2 years.
- 2) The entire product, including all of its parts, are under the warranty.
- 3) In case the product being replaced with the equivalent free from defects may bring forth disproportional hardships, the consumer may use one of the rights of withdrawing from contract or price discount proportional to the defect. In determination of disproportionality, the price of the goods without defects, the importance of the defect and whether using other optional rights shall be a problem for the consumer are considered. In cases where the consumer selects withdrawal from the contract or price discount proportional to the defect, all or discounted amount of the product price shall immediately be returned to the consumer. In case that the consumer chooses the option for the product shall be replaced with its equivalent without defects, the seller, manufacturer or importer are obliged to fulfill the request of replacing the product with its equivalent without defects within maximum thirty workdays after receiving such a request.
- 4) In case the consumer choses the right for free of charge repair among these rights, the seller is obliged to perform the repair of the product without requesting any fees under labor, replaced part price or any other title. The consumer may utilize the right for free of charge repair against the manufacturer or the importer. The seller, importer and manufacturer are severally responsible for the consumer to use this right.
- 5) In case the consumer choses the right for free of charge repair; if the product malfunctions again within the Warranty period the repair period is exceeded it is indicated in a report by the authorized service station, seller, manufacturer or importer that the repair is not possible; the consumer may request from the seller the return of the product, price discount in the rate of the defect or if possible, request that the product is replaced with the equivalent without defect. The seller may not reject the request of the consumer. In case this request is not fulfilled, the seller, manufacturer and importer are severally responsible.
- 6) The maximum repair period of the product is 20 workdays. This period starts, within the warranty period, on the date of notification of the related malfunction to the service station or the seller, and outside the warranty period, on the date the product is delivered to the service station. In case the product malfunctions within the warranty period, the period of repair is added to the warranty period. Whether usage errors are present in the malfunctions should be indicated on a report issued within the maximum repair period related to the product by the service stations, and in case that there are no service stations, by one of the products seller, importer or manufacturer and a copy of this report should be given to the consumer. The warranty period of the replaced product during the warranty period shall be limited to the remaining warranty period of the purchased product.
- 7) The malfunctions due to the use of the product contradictory to the matters given in the user manual or due to use errors are excluded from the warranty scope.
- 8) The consumer, in disputes that may occur related to the use of the rights based on the warranty, may apply to the Consumer Arbitration Consul or the Consumer Court at the location of the transaction of consumer was performed or at the residential area.