ESKA

ERG-E SERIES GAS PRESSURE REGULATOR WITH SAFETY SHUT-OFF DEVICE

and

ERG SERIES GAS PRESSURE REGULATOR WITHOUT SAFETY SHUT-OFF DEVICE

ASSEMBLY, USE AND MAINTENANCE INSTRUCTIONS

"Read carefully before all procedures and follow the instructions. Do not carry out any procedure unspecified in this manual."

"Retain this manual for future references."

"The product must only be installed by authorized people."

"This product must be assembled in accordance with current rules, regulations and guidelines."

Rev.2 – 11.03.2025

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The right to change this manual in accordance with the technical developments is reserved. 2014/68/EU Pressure Equipment Directive has been applied and the manual has been prepared accordingly.

1. GENERAL NOTICE AND CONTROLS TO BE CARRIED OUT

All procedures in this manual must only be carried out by expert personnel who have been licensed by competent authorities. Unauthorized people absolutely must not interfere with the product. Our company is not responsible for the malfunctions, damages, accidents, etc. that result from any operation that is not carried out in compliance with the rules and information in this manual.

End users and unauthorized people must read this manual and follow all safety rules that might be relevant to them. They must not respond to or tamper with the product under any circumstances, change any settings or make a physical input. They must not introduce substances such as wire, water, etc. into the openings of the device. In case of a malfunction, gas leak, gas smell, etc., they must shut off the inlet valve on the front face of the regulator and they must notify the relevant gas distribution company and the experts who have been approved by competent bodies. Meanwhile, the area must be ventilated.

Do not start any procedure before accessing and reading this manual. If this manual is out of reach, if there's something you don't know, don't understand or aren't sure about, or if you cannot carry out the procedures even though you comply with this manual; contact the manufacturer or our representative.

For all procedures on this manual and during operations, use the appropriate tools and methods. During all procedures and operations, make sure that the products are not dropped, thrown, shaken, exposed to overload and excessive force or blow, crushed, stacked with heavy material, and that the external parts or projections of the product are not damaged, stacked with heavy loads or tipped over.

The regulators absolutely must not be used in areas where there's a risk of explosion. In order to use the product in these areas, it's required for the assembler and the user to take all necessary measures to avoid a risk of explosion.

If there's any hazardous devices, electrical stress or gas pressure around the product, do not operate the device under any circumstances. The distance between the product and these hazards must be determined and adjusted by authorized bodies and people. This is because potential triggers may be in question in such cases. It's prohibited to smoke or light a fire within 2 meters of the product. The product must be kept away from sunlight, chemicals, rain or water. The necessary precautions must be taken considering that the product may be exposed to natural events such as earthquake, flood, landslide, fire, etc.

If the manual and/or the label is lost, request a new one from the manufacturer before starting any procedure. If any procedure that does not comply with this manual or the label is carried out, the product may malfunction or break down, or this may lead to injuries or loss of life and property. In case there's any doubt before, during or after the procedures, contact the manufacturer. Do not exceed the technical limits on this manual and the product label. Especially make sure that you don't supply pressure to the product higher than the maximum operable inlet pressure. The product must only be used under design conditions in accordance with the intended purpose. In order to verify that you have chosen the right product, compare the information on the manual and label with the line.

Before, during and after any procedure and during all operations of the product; make sure that the necessary legal permissions are granted, all relevant parties are informed and notified, all safety measures are taken including personal protection (goggles, helmet, etc.), the procedures are carried out in accordance with current legislations, regulations, and technical standards and rules accepted by gas boards, the safety of the working conditions are reviewed, all necessary precautions are taken against fire risks, the gas is not inhaled, the precautions are taken against dangerous combinations or any possible emanation of liquids inside the line, foreign objects are not inserted in the release opening if there is one, no one approaches the device with electrical materials, the operation area complies with the general protection plan and required safety warnings, and flammable or explosive materials such as fire, spark or cigarettes are not brought into the area next to the product since it contains flammable gas.

Only the parts that come with the product within the box must be used; unoriginal parts that do not belong to our company must be avoided.

If necessary, contact us in order to procure spare parts. At the end of their life cycle, the products must be replaced with new ones. At the end of their life cycle, in order to recycle the products that have been removed off the line, contact the manufacturer or relevant companies in accordance with the regulations.

After all these procedures, preserve this manual in a safe area.

After cutting off the product's gas supply, only the authorized person must determine whether or not there's a gas leak. Provided that it's verified that there isn't any gas leak, the product can be set up and activated.

The end user and/or the authorized personnel is responsible for applying the right systems in order to protect the product. Take precautions and develop systems in order to protect the device from outside factors such as tampering with the product, opening the lids of the product, introducing substances such as wires, water, dirt, etc. into the openings of the product, emergencies such as earthquake, fire, flood, etc., corrosion and chemical effects, environmental impact (traffic, external sources, electrical reasons), adverse weather conditions (rain, snow, glaciation, moisture (e.g. as a result of condensation)), mold, UV rays, pests, poisonous or irritant solvents/liquids (e.g. cutting or cooling fluids), direct sunlight and corrosive atmospheric effects, access by unauthorized people, not being able to detect the gas leak, etc.

At any stage on this manual or during any operation; do not try to remove the product's shut-off valve (only on ERG-E series products), do not let them be exposed to any mechanical damage, do not move around or overextend them.

For the products that do not have a safety device (ERG series products); since there isn't a safety shut-off device that shuts off the gas transfer at high and low outlet pressure, additional measures must be taken regarding the unwanted extreme pressure increase or decrease on the line.

If both the operation and the malfunction diaphragm malfunctions, flammable gas will be released into the atmosphere. If the release continues, the risk of an explosive atmosphere increases as well. This may create hazardous areas. Especially in the critical areas of use (unattended areas, areas with insufficient ventilation, areas where maintenance is not carried out, etc.), the product must be kept away from the sources with a risk of combustion and/or dangerous equipment (electric arcs and spark generators, etc.) and the precautions must be taken for all cases.

2. TERMS OF USE, TECHNICAL INFORMATION AND OPERATION PRINCIPLES

The gas pressure regulators help the devices that come after themselves on the gas line function safely. The gas pressure regulators keep the outlet pressure within the tolerated range by reducing the inlet pressure to the desired/adjusted outlet pressure.

If requested on the order, the gas pressure regulators may have a release system that releases to open air. The auxiliary equipment of the regulator may temporarily release gas into the atmosphere. In this case, necessary precautions regarding the gas that will be released must be taken before the assembly. If they exist, the safety shut-off systems (only for the ERG-E series) and the release system on the product are shown in detail on Figure 3.

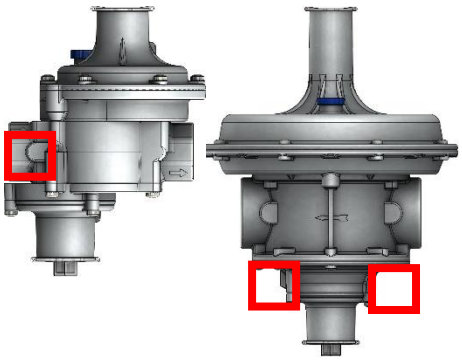
Additionally, the ERG-E series products automatically shut off the gas on the line by automatically detecting when the outlet pressure increases or decreases to undesirable levels beyond the safety adjustment pressure, and then remain shut off until being manually set up again. These regulators have an integrated high pressure and/or low pressure gas safety shut-off device.

The regulators have an internal sensor. The product includes a removable and washable filter. Therefore, substances that are carried with gas such as dirt, dust, etc. cannot harm the product.

The technical properties of the product are as follows. These values may vary from product to product depending on factors such as outlet flow rate, outlet pressure, inlet pressure range, etc. The definitive technical information of the product is specified on the label. Under any conditions, the product must not be used outside of the restrictions below.

Model - Series: ERG-E Series (with Safety Shut-off Device) and ERG Series (without Safety Shut-off Device)

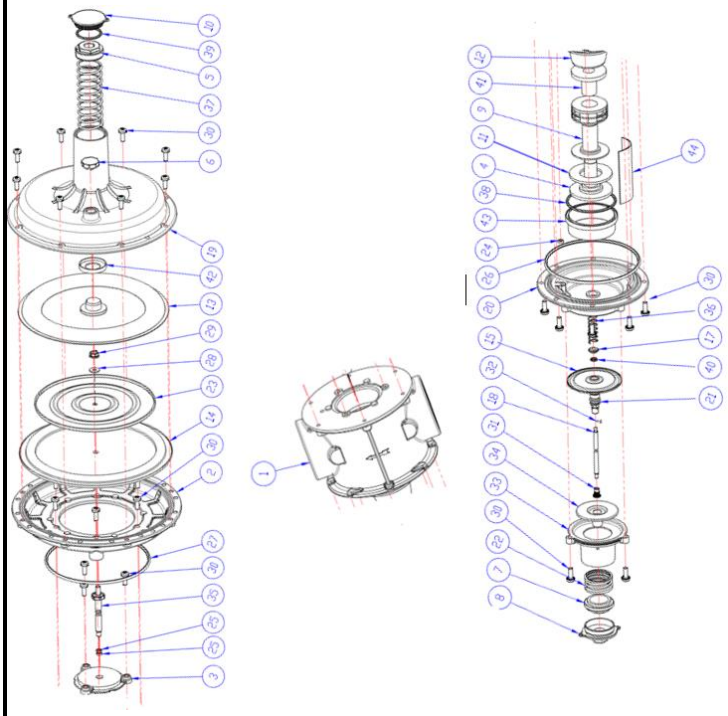
Area of Use: In flammable gas (LPG (in gas phase), natural gas or coal gas) installations in buildings or terrain, city gas distribution systems and gas pipelines. It cannot be used with gas burning devices.
Suitable Fluids: Coal gas, Natural Gas, LPG and non-corrosive gases
Maximum Allowed Pressure (PS): PS0,6, PS1 ,PS2 (0,6 bar, 1 bar, 2 bar)
Connection: DN15,DN20,DN25,DN32,DN40,DN50 Threaded (modular connection upon request)
Working Temperature Range (TS): -10°C ; 50°C or -20°C ; 60°C or -40°C ; 60°C upon request
Connection Directions: Pass-through (180 degrees)
Outlet Pressure Accuracy Class "ÇT": ±%5 ÇT5, ±%10 ÇT10, ±%15 ÇT15, ±%20 ÇT20
Lock-up Pressure Class "KT": +%10 KT10, +%15 KT15, +%20 KT20, +%30 KT30
Outlet Pressure Adjustment Range "AS": 5;300 mbar
High Pressure Safety Shut-off Adjustment Range "EBÜ": 30;400 mbar
Low Pressure Safety Shut-off Adjustment Range "EBA": 5;100 mbar
Safety Device Accuracy Class "ETÜ and ETA": ±%5 ETÜ5 – ETA5, ±%10 ETÜ10 – ETA10, ±%20 ETÜ20 – ETA20, ±%30 ETÜ30 – ETA30
Inlet Pressure Range "Pg": 0,04;2 bar (The products must not be used under 100 mbar inlet pressure)
Materials: Body and Cap Aluminum Cast Alloy EN 1706, Brass EN 12164-EN12165
Regulator Resistance Type: Regulators with integrated resistance
Test Pressure: PT=PSx1.5bar
Regulator Type: Single-stage direct-action gas pressure regulator (with spring trigger)
Regulator Class: Console regulator with double connections
Filter: Filters may be provided at requested µm modularly on the inlet side.

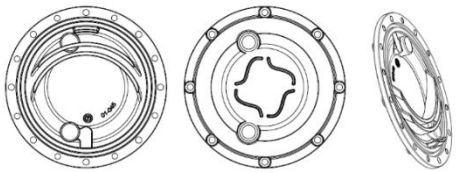


If requested:

- Appropriate connection and/or nipples in order to measure the pressure or pressure differential (Figure 1)
- Appropriate connection and/or nipples in order to release the dangerous gas accumulation (Figure 1)

Figure 1



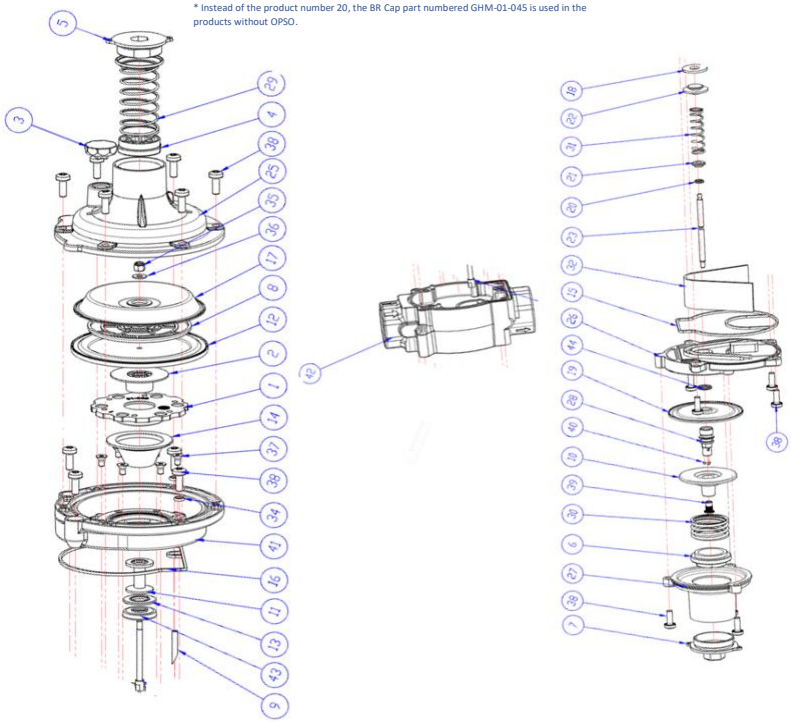


ITEM NO.	PART NO.	PART NAME	AMOUNT
1	(GHM-05-060)	Regulator Body 2"	1
2	(GHM-01-031)	BR Regulation Intermediate Cap	1
3	(GHM-01-054)	BR 2" Centering	1
4	(GHM-05-393)	BR 2" Lower Valve	1
5	(GHM-01-188)	BR Regulation Adjustment Screw	1
6	(GHM-02-016)	Joint Ventilator	1
7	(GHM-02-020)	O. Shut-off Safety Plastic	1
8	(GHM-02-021)	O. Shut-off Safety Cap	1
9	(GHM-02-099)	BR 2" Reel	1
10	(GHM-02-143)	SR Sealed Upper Cap Plug	1
11	(GHM-04-003)	028,2x054x3 Gasket (BR 2" Reducing Gasket)	1
12	(GHM-04-005)	BR 2" V Diaphragm	1
13	(GHM-04-006)	BR Safety Membrane	1
14	(GHM-04-009)	BR Main Membrane	1
15	(GHM-04-137)	O. Shut-off Diaphragm	1
16	(GHM-05-009)	BR 2" Orifice Brass	1
17	(GHM-05-012)	BR Shut-off Spring Cap	1
18	(GHM-05-013)	BR Shut-off Spear	1
19	(GHM-05-075)	BR Regulation Upper Cap	1
20	(GHM-05-076)	BR Shut-off Intermediate Cap	1
21	(GHM-05-666)	Joint Shut-off Centering	1
22	(GHM-06-013)	O. Shut-off Max. Adjustment Spring	1
23	(GHM-07-001)	BR Main Membrane Plate	1
24	(HM-04-038)	O-Ring 03x02,5	1
25	(HM-04-041)	O-Ring 04x02	2
26	(HM-04-042)	O-Ring 0113,89x03,53	1

ITEM NO.	PART NO.	PART NAME	AMOUNT
27	(HM-04-128)	O-Ring 0132,94x03,53	1
28	(HM-08-002)	015,5x014,6x1 Washer	1
29	(HM-08-015)	M6 Flanged Nut	1
30	(HM-08-040)	M 5x14 TSB Self Tapping Screw (Form K)	28
31	(HM-08-042)	M4 Rivet Nut	1
32	(HM-10-021)	02,5 Ball-bearing (Stainless)	3
33	(GHM-05-077)	0. Shut-Off Upper Cap	1
34	(GHM-02-067)	0. Shut-Off Diaphragm Shock Absorber	1
35	(GHM-05-010)	BR 2" Regulation Spear	1
36	(GHM-06-014)	0. Shut-Off Spring	1
37	(GHM-06-085)	H1 Regulation Spring 270-330	1
38	(HM-04-135)	Shut-Off Valve O-ring 058x02,8	1
39	(HM-04-194)	O-Ring 029x02,62	1
40	(GHM-04-248)	O-Ring 04,5x02 (Surt-Off O-Ring)	1
41	(GHM-05-394)	BR 2" Upper Valve	1
42	(GHM-05-458)	HI Lower Spring Washer	1
43	(GHM-05-011)	BR 2" Shut-Off Valve	1
44	(GHM-14-004)	BR Filter 2"	1

* The parts 8,7,22,30,33,34,31,18,32,15,21,40,17,36,20,43 and 38 are not used in the products without OPSO.

* Instead of the product number 20, the BR Cap part numbered GHM-01-045 is used in the products without OPSO.



ITEM NO.	PART NO.	PART NAME	AMOUNT
1	(GHM-01-060)	KR Internal Centering	1
2	(GHM-02-007)	KR Diaphragm Lower Plastic	1
3	(GHM-02-016)	Joint Ventilator	1
4	(GHM-02-017)	O. Regulation Adjustment Plastic	1
5	(GHM-02-018)	O. Regulation Safety Cap	1
6	(GHM-02-020)	O. Shut-off Safety Plastic	1
7	(GHM-02-021)	O. Shut-off Safety Cap	1
8	(GHM-02-063)	KR Main Membrane Shock Absorber	1
9	(GHM-02-064)	KR Regulation Pipe	1
10	(GHM-02-067)	O. Shut-off Diaphragm Shock Absorber	1
11	(GHM-02-081)	KR Balance Tappet	1
12	(GHM-04-014)	KR Main Membrane	1
13	(GHM-04-015)	KR Reducing Gasket	1
14	(GHM-04-016)	KR Reducing V Diaphragm	1
15	(GHM-04-017)	KR Shut-Off Intermediate Cap Gasket	1
16	(GHM-04-018)	KR Regulation Intermediate Cap Gasket	1
17	(GHM-04-129)	KR Safety Membrane	1
18	(GHM-04-136)	09x023x2 Gasket	1
19	(GHM-04-137)	O. Shut-off Diaphragm	1
20	(GHM-04-248)	O-Ring 04.5x02 (Shut-Off)	1
21	(GHM-05-012)	BR Shut-Off Spring Cap	1
22	(GHM-05-020)	KR Shut-off Valve	1

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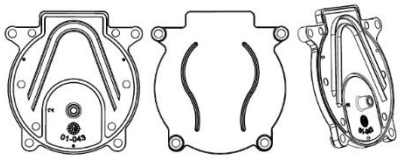
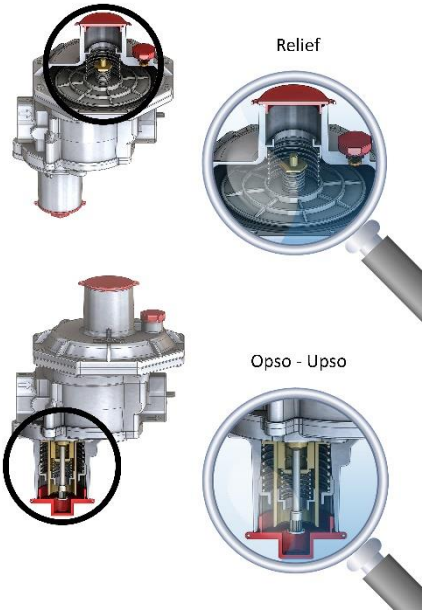


* The parts 7,38,27,6,30,39,10,40,28,19,44,26,23,20,21,31,22 and 18 are not used in the products without OPSO.

* Instead of the product number 26, the KR Flat Cap part coded GHM-01-043 is used in the products without OPSO.

ITEM NO.	PART NO.	PART NAME	AMOUNT
23	(GHM-05-021)	KR Shut-Off Spear	1
24	(GHM-05-023)	KR Regulation Spear	1
25	(GHM-05-073)	KR Regulation Upper Valve	1
26	(GHM-05-074)	KR Shut-Off Intermediate Cap	1
27	(GHM-05-077)	O. Shut-Off Upper Cap	1
28	(GHM-05-666)	Joint Shut-off Centering	1
29	(GHM-06-010)	KR Regulation Spring 21 Mbar	1
30	(GHM-06-013)	O. Shut-off Max. Adjustment Spring	1
31	(GHM-06-014)	O. Shut-Off Spring	1
32	(GHM-14-002)	KR Filter	1
33	(HM-04-035)	O-Ring 030x02	1
34	(HM-04-041)	O-Ring 04x02	2
35	(HM-08-003)	M4 Fibered Nut	1
36	(HM-08-004)	M4 Washer	1
37	(HM-08-008)	M4x8 THB Self Tapping Screw	6
38	(HM08-040)	M5xl4 TSB Self Tapping Screw (Form K)	17
39	(HM-08-042)	M4 Rivet Nut	1
40	(HM-10-021)	02,5 Ball-bearing (Stainless)	3
41	(GHM-01-025)	KR Regulation Intermediate Cap	1
42	(GHM-05-057)	Regulator Body 1"	1
43	(GHM-01-090)	KR Reducing Valve	1
44	(HM-04-156)	O-Ring 09x02	1

Figure 2 - Products



DN15-DN20-DN25

DN32-DN40-DN50

Figure 3

3. ASSEMBLY

These procedures must be carried out by expert, licensed, authorized technicians or authorized companies, services or installers that have been certified by the gas board. These procedures absolutely must not be carried out by the end user. Verify that the assembly has begun in accordance with current technical laws and legislations.

Before the assembly, determine and verify which properties the product that will be used should have. Check the technical and general information on the product label and this manual, compare them and make sure that you have made the right choice. Before the assembly, it must be verified that the inlet pressure does not exceed the maximum pressure specified on the product label.

Check all accessories on or inside the product or the box. Check the compatibility of the line where the product will be mounted and the product properties; make sure that they are correct and make the necessary verifications (working pressure range, outlet pressure, fluid, flow rate, environmental conditions, cleanliness of the line and the fluid, the selection of type and diameters in cross connections, the compatibility of the line and the product sizes, etc.)

Verify that the line and the fluid are clean, the selection of type and diameters in cross connections are correct, there's no axis eccentricity on the line, the line is aligned, the line and the product sizes are compatible, the product is not damaged, etc. If there's something missing, faulty or unclear, contact the manufacturer before carrying out any procedure.

Before the cutting and welding procedures that will be carried out during the assembly, an inert gas application must be carried out on the natural gas installation. Before the assembly, it's recommended to install a filter on the line before the product.

The compatibility of the product size and the line must be verified before the assembly.

While carrying out the assembly with integrated components, special attention must be paid not to exert force on the body. You must not make any changes on the product and the assembly components (drilling, stoning, soldering, etc.). Make sure that the inlet side is protected by an appropriate device in order to avoid exceeding the usage limitations (PN, TS).

The product must not be exposed to fire or lightning. The product must be mounted in an aseismic area or in an area where the necessary precautions have been taken for seismic activity. For outdoor installations; the regulator must be away from the traffic or external factors. It must be placed in a way that will prevent water, ice or other foreign substances from entering the spring box through the ventilation opening. Avoid placing the regulator under a fringe or the downpipes. Check for a risk of explosive mixtures inside the pipeline. Make sure that the product is above the potential snow level.

There must be an inlet and outlet shut-off valve before and after the product on the line where the mounting will be carried out. Before and during the assembly, make sure that there isn't any compressed gas between the product and the line or on the line itself. Make sure that the gas supply is shut off and there aren't any possibilities for it to be turned back on. Make sure the product is not damaged before the assembly. Before the assembly, it must 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 operations. Before the assembly, you must leave sufficient buffer volumes and ventilation spots for the line on the outlet side of the line following the regulator. Necessary precautions must be taken in order to avoid any noise or vibration originating from the line. For humid gases, necessary precautions must be taken in order to avoid water intake and potential subsequent freezing. Before the assembly; in order to decrease the bending and torsion loads on the inlet and outlet sides of the line generating from the pipes and the shaking, take the appropriate measures on the line section using methods such as clamping, etc. Make sure that there aren't any short-range shrinkage or enlargement of the diameter on the inlet or outlet sides of the product. Make sure that the necessary dimensions and areas are provided for the product in the area of assembly, taking into consideration the following procedures such as testing, maintenance, disassembly, etc. and taking the external dimensions of the product as reference. Before assembling the product on the line, clean the internal parts of the pipe with compressed air and eliminate the foreign substances such as dust, dirt, sawdust, welding particles, etc. Take the necessary measures to prevent these lines from getting contaminated again. Carry out the general pressure and tightness controls of the line and the system. Assemble the products by taking the necessary precautions (e.g. inside a protective box, etc.) so that they won't be exposed to external damage or impact resulting from the environmental factors or external corrosion conditions (sunlight, rain, snow, moisture, water, external chemicals, etc.). Make sure that an external filter is installed in order to filter out the gas before the gas pressure regulator. The area of assembly must absolutely be far away from flammable materials, electrical current and sparks.

When necessary (using the regulator indoors, etc.) an exhaust line must be connected to the regulator's ventilator console. This connection must be at least DN10 threaded. The threaded adaptor that might be necessary for this connection must be requested and used.
The gas pressure regulators with a release system must not be mounted indoors without taking the necessary precautions (for instance, the released gas must be transferred and mixed into the atmosphere through at least a DN10 pipe, etc.) for the gas to be released into a safe area (into the atmosphere).

1- Make sure that all valves, which are used before and after the product and supply gas to the product, are turned off and that there's no gas flow and all risks of gas flow during the assembly are prevented.
2- Do not use materials such as putty, special liquid, etc. in order to ensure tightness in the connections. Use the appropriate and approved gaskets.
3- Take the product out of the box properly and remove the inlet-outlet protection caps manually if they exist.
4- Set the flow direction of the product in a way that the arrow on the product's body indicates the outlet side and the gas flow direction.
5- With a tolerance range of ±5°C, install the product in the appropriate assembly position, horizontally or vertically like it is indicated on Figure 6. However, you should choose to assemble the product in a way that the upper hatch is vertical and faces upwards.
6- Place the product on the line without applying excessive load, force or impact in a way that will not block the product's outlet sense line and will not expose it to mechanical stress. You should especially avoid using manual force on the body or the hatch.
7- Tighten the product by using the appropriate wrench without using excessive load, force or impact; making sure that there aren't any external leaks. After the tightening procedure; make sure that the connections settle in the bearings perfectly, that there aren't any mechanical problems on the connections such as fractures, etc., and that there aren't any mechanical stress on the product originating from the line, pipe or connections.
8- While installing the product on the line, it's recommended that you connect the device's inlet and outlet sides to the relevant pipeline using nipples or mobile fittings. Therefore, it'll be easier to remove the product off the line when necessary.
9- If the product has a threaded connection; in order to avoid damaging the body of the product while screwing it into the line, make sure that the line's pipe thread is not too long and that the pipeline's load does not have an impact on the product. During screwing, do not use any part of the product as a tool to help screw it in.
10- After the assembly is completed, check and make sure that you have not assembled the product backwards, that the system does not have gas leakage, that you have complied with current laws and local regulations, and that you have carried out the procedures in accordance with the information on this manual.

The relevant restrictions must be taken into consideration regarding the reaction and momentum resulting from the pipe and the connections. In case the connection components that have been installed on the inlet and outlet sides of the product are bigger than the connection diameters on the product's body, you must not use any force or momentum that exceeds the values required by the main connection diameter on the body and you must not go over the restrictions.

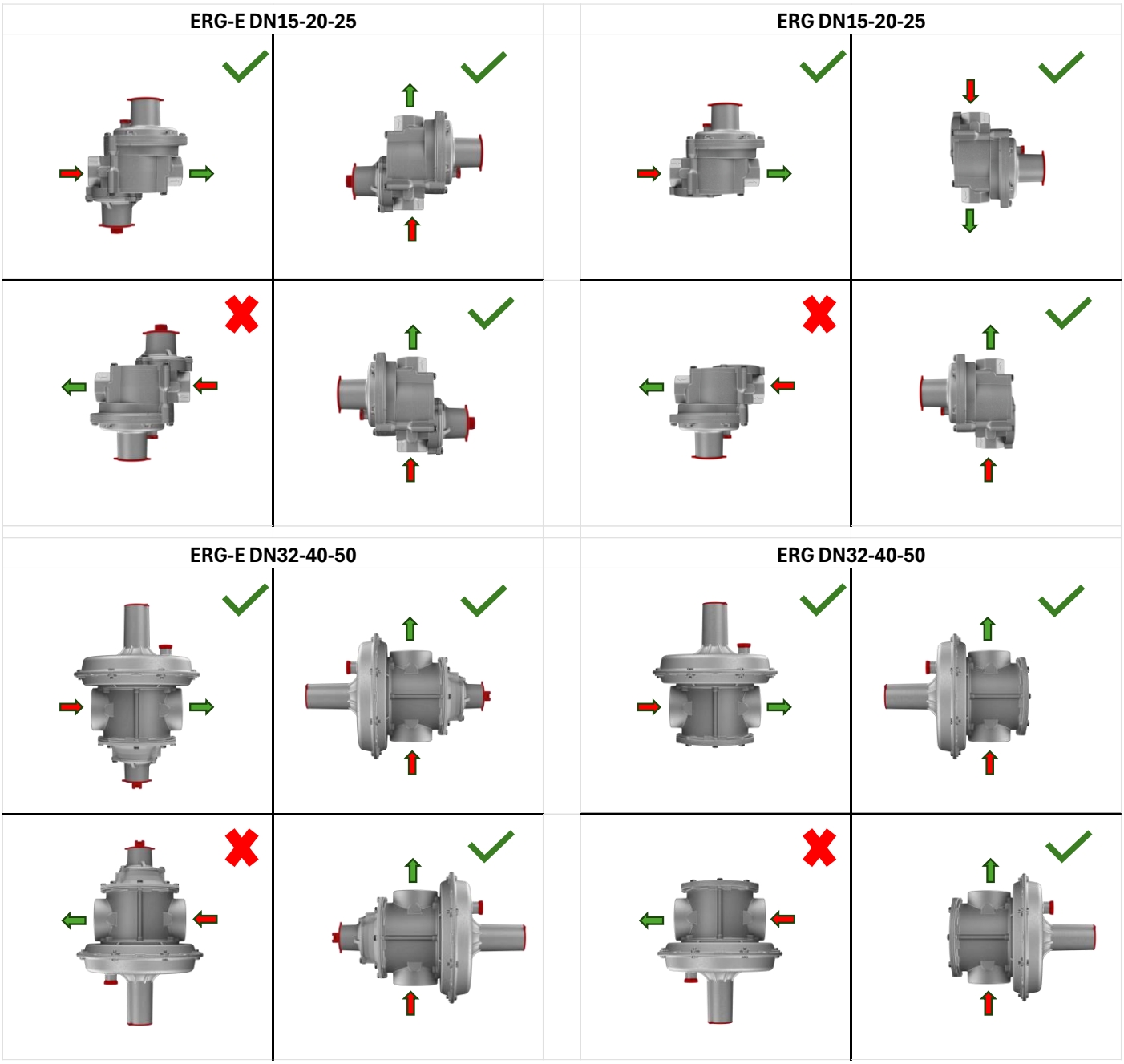


Figure 4

4. SETUP, START-UP AND OPERATING

Only the authorized gas distribution companies and the authorized personnel of these companies have the authority to set up the product in the area of use. Do not interfere with the line or the product unless you're the authorized personnel.

Before the setup, carefully read the instructions on this manual and the information on the product label. Keep them close and follow them exactly. If you think there's missing or faulty information, do not carry out any procedures and contact the manufacturer.

Before the setup, check and make sure that the people at the outlet side are not using the device. Make sure that there is no gas leak on the pipelines. Do not change the factory settings. The factory settings (outlet pressure, diameter, safety pressures, etc.) have been adjusted according to the values requested on the order contract and they have been specified on the label.

Our ERG-E series products are set to the maximum safety shut-off pressure during the delivery to the end user, not the minimum safety shut-off pressure. The minimum shut-off pressure adjustment in question is carried out upon request. That's why our standard products have a minimum safety shut-off system, but it's deactivated. If the user wants the regulator to shut off both in maximum safety shut-off and minimum safety shut-off, our company needs to be informed about this on the contract form. Give the necessary warnings so that the end users do not use it. Before starting the setup, you must first shut down the main gas supply. Before setting up the device, make sure that the product has been assembled correctly on the line. During the setup, prevent particles such as dirt, rust, dust, etc. from entering the device and take lasting precautions. Not eliminating the residue leads to damages or faulty performance.

For the ERG-E series products;

1- Partially turn on the outlet valve on the line,
2- Slowly and gradually turn on the inlet valve on the line, which is the gas supply (definitely don't turn it on fully at one stroke),
3- Manually turn the transparent shut-off protection cap on Figure 5 counterclockwise to remove it,
4- Manually and slowly pull the shut-off lever towards yourself without applying any excessive load, force or impact, wait for a couple of seconds to make sure that the lever remains pulled, and then set up the shut-off part (pull the shut-off lever while the gas supply is slowly being turned on); if the procedure is not carried out, repeat it. If it remains pulled, this means that the product has been set up.
5- Then, reattach the shut-off protection cap,

If you have difficulties pulling the shut-off lever, or if the shut-off lever turns off because the outlet pressure reaches the safety adjustment pressure; you may carry out procedures such as gradually turning on the inlet valve instead of completely turning it on, letting a small amount of gas to be released from the test nipple on the outlet line by going beyond the necessary measures, etc. Also, the outlet pressure may have reached the OPSO or UPSO value; so check that as well. After the procedures, reattach the parts such as the test nipple etc.

For the ERG series products;

1- Partially turn on the outlet valve on the line,
2- Slowly and gradually turn on the inlet valve on the line, which is the gas supply (definitely don't turn it on suddenly),
3- Gas transfer to the outlet side will automatically begin; wait for a couple of seconds and make sure that there's gas transfer to the outlet side. This means that the product has been set up.

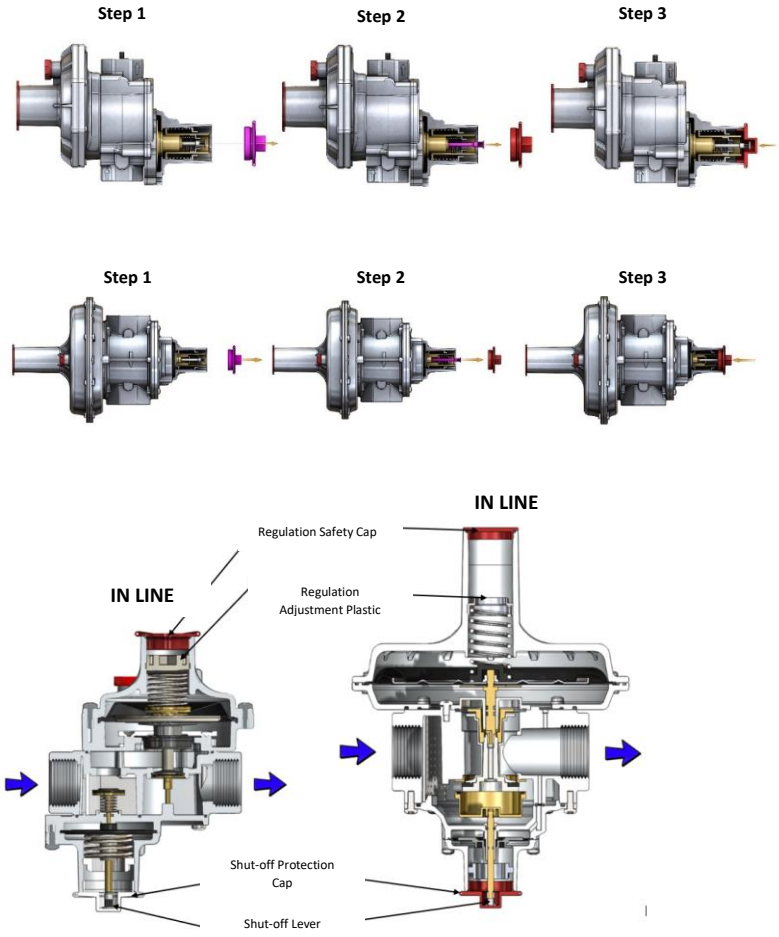


Figure 5

After setting up the product, make sure that there's gas transfer on the outlet side, the lever remains pulled and drawn (only for the ERG-E series), the released gas mixes into the atmosphere if there's a release system, and there is no gas leakage by using methods such as foam, detector, etc. Inform the gas users about gas usage. During the setup procedure or during mid-season, as a result of temperature differences, there may be a gas outflow into the atmosphere from the release part of the product. This is normal. It's important that the gas outflow in question does not continue. If the gas outflow continues, there might be a malfunction in the product.

On the ERG-E series, if the gas pressure regulator shuts down during operation for various reasons; the inlet valve must be turned off, the problem must be detected and the setup must be carried out again according to the rules mentioned above.
On the ERG-E series products, the outlet pressure may increase while operating due to internal leakages, the blockage of the ventilation line, product malfunctions, the abrupt stopping of the boiler, etc. (the sudden drop in the usage capacity) originating from unclean air or the foreign substances on the line. When this happens, the product's high pressure safety shut-off device may be turned off and the gas may be cut off. The position of the safety shut-off can be observed via the shut-off lever which is inside the shut-off safety cap on Figure 5. In this case, the setup procedure must be carried out once again.

In case of a malfunction of the product, the leaked gas may accumulate and create a risk of explosion. Therefore, the connection must be carried out through a pipe from the product's ventilation hole to the outdoors (atmosphere).

- TESTS

After the setup; the outlet pressure, high and/or low pressure shut-off pressures, internal tightness, external tightness and capacity must be checked. Take the necessary precautions in order to make sure that the gas that may be leaked during these procedures is not hazardous to the atmosphere. Under any circumstances, no pressure higher than the determined PN pressure must be supplied to the product. Analyze the pressure values with the calibrated manometer

that has been assembled at least 5xDN on the outlet pipeline. DN is the value that depends on the diameter on the outlet side of the product.

5. SETTINGS

The only authorized body for setting the product on site is the gas distribution companies and the authorized personnel of those companies. Do not interfere with the line or the product unless you're the authorized personnel.

If necessary, the product's outlet pressure and safety shut-off pressure settings if it exists (for ERG-E series products) must be carried out as follows:

The settings must not be changed more than ± 10% and outside the restrictions on the label. Before adjustments, make sure that the springs in question can deliver the desired results. If you observe any non-compliance in the springs (wrong spring, corrosion, etc.), contact the manufacturer before carrying out any procedure. These springs must be procured from the manufacturer. While carrying out the pressure settings, the adjustment mechanisms and the springs must not be pressed, bent or forced.

Adjusting the Settings;

1- The seals on the adjustment parts of the product must be removed,
2- Connect the pressure gauge (manometer) on an appropriate test valve between the regulator and the outlet pipe in order to see the setting values,
3- While setting the appropriate pressure, set the capacity value to 0,5xQmax and the inlet pressure to (Pgmax+Pgmin/2); while setting the OPSO or UPSO values, the outlet pressure is gradually decreased or increased compared to the declared outlet pressure,
4- Remove the regulation safety cap manually by turning it counterclockwise,
5- Turn the regulation adjustment plastic towards the appropriate direction with the appropriate hexagonal wrench (or with the adjustment plastic if there's one in the product box) and mark the adjustment pressure that has just been carried out; during all adjustments, turning clockwise increases the pressure whereas turning counterclockwise decreases the pressure,
6-When the outlet pressure is increased, the safety pressure must increase as well. When the outlet pressure is decreased, the safety pressure must decrease as well.
7- Reattach the regulation safety cap on the product.

After changing the settings; check and verify with appropriate methods that the technical properties and the restrictions on this manual and on the product are complied. After making the pressure adjustments in question, it's recommended that the adjustment equipment is sealed on the products that are being used in the field so that the adjustments cannot be changed. For this procedure, the seal inside the box may be used if there is one.

In case you select the regulation springs that are set to high outlet pressures, tighten the springs with a handgun that has a screwdriver blade.

Outlet and safety pressure adjustment ranges may be adjusted and changed by using different springs.

6. PERIODICAL MAINTENANCE AND INSPECTION

The only authorized body for the maintenance and inspection of the product are the authorized gas distribution companies and their authorized personnel. Do not interfere with the line or the product unless you're the authorized personnel.

Periodical inspection is recommended for making sure that the product functions safely and properly. The frequency of periodical maintenance must not exceed the limits specified by the gas board or the regulations. The manufacturer recommends a maintenance period of 1 year. The maintenance period must be adjusted according to the working conditions.

In order to maintain the safety, the users and the authorized installers must track the effects of corrosion and wearing out.

Make sure that there's no compressed gas on the line before removing the product off the line. All periodical maintenance and inspection procedures must be carried out after removing the product off the line. Do not carry out abrupt discharge in order to clean the line after the product under any circumstances. The parts of the product that may need to be removed for repair can be removed and reattached using regular hand tools. They are designed in a way to be easily and correctly mounted. Do not start any maintenance procedure before releasing the internal pressure that might have accumulated inside the product. For the necessary periodical maintenance and inspection procedures, remove the product off the line in accordance with the disassembly rules specified on this manual.

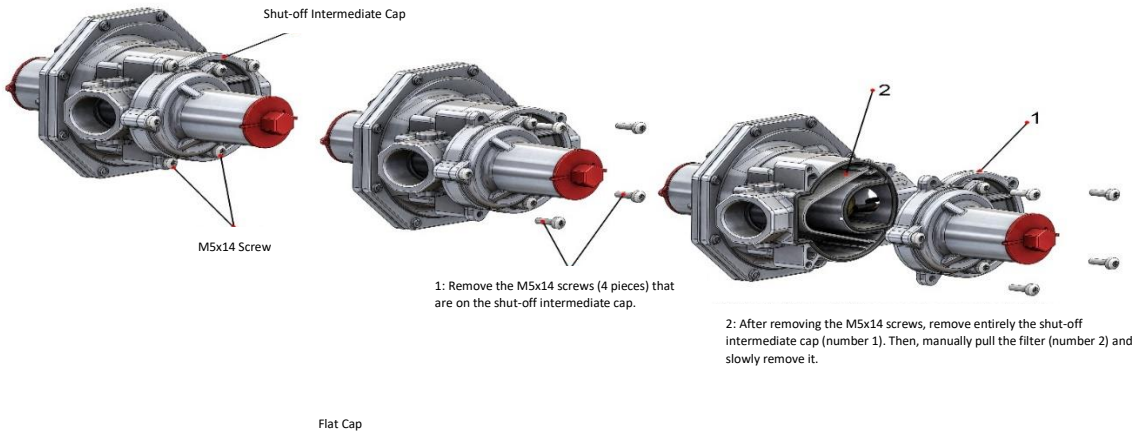
1- Do not carry out the cleaning procedure with cleaning supplies that contain alcohol or solvents,
2- Make sure that you turn off the valves in front of and behind the product,
3- The proper way of screwing: Make sure that you remove and mount the product's connection components (screws and/or gaskets and nuts) using the specified torques. Mount or remove the caps using the same screws, without applying stress on the screws or using excessive force, by tightening/loosening them on the exact spots with the proper tools so that they align with the holes. Make sure that they are not loose or that they have not been exposed to any mechanical damage. If there's any kind of paint, lacquer, seal, etc. on the connection components, do not carry out any maintenance procedures and contact the manufacturer,
4- If necessary, do not remove the internal parts of the cases that you have just removed; keep them intact as a group.

Changing the spring;

1- Remove the regulation safety cap, - Remove the shut-off safety cap,
2- Remove the regulation adjustment plastic using the proper hexagonal wrench, - Remove the shut-off adjustment plastic using the proper hexagonal wrench
(use the wrench provided in the box if there is one.)
3- Remove the spring off the cap and replace it with a new one,
4- Repeat the process backwards starting from the last step.

<u>The Inlet Filter inside the product (see Figure 6);</u>

1- On the ERG-E series products; remove the screws in the shut-off cap and case parts. Only remove the lower hatch case screws on the ERG products,
2- Then, put them away as a group. Remove the filter from the product and wash it with water,
3- After it dries off, put it back properly. Close the product by repeating the process backwards starting from the last step.



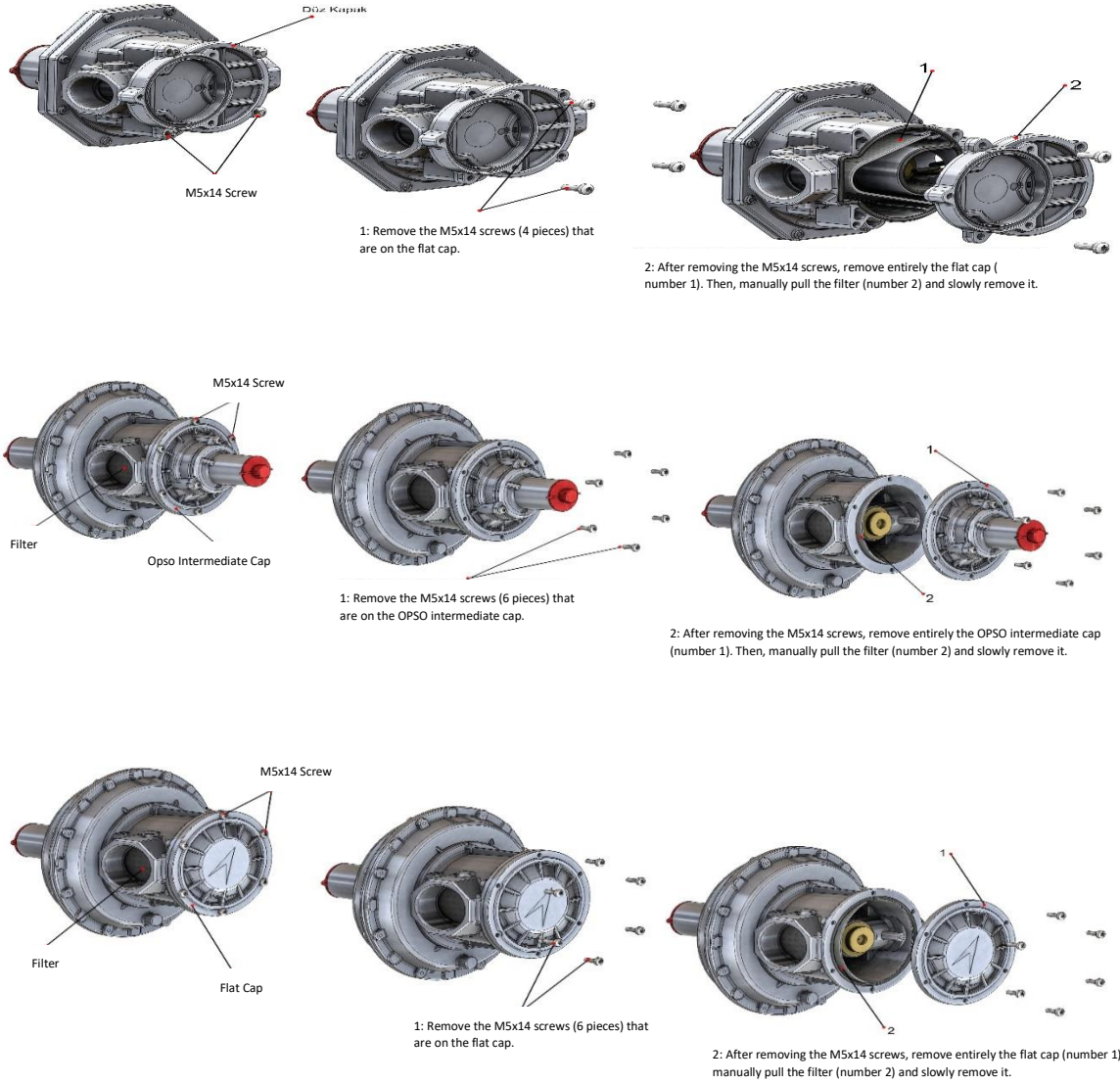


Figure 6

After changing the filter, mount the caps using the same screws, without applying stress on the screws or using excessive force, by tightening them on the exact spots so that they align with the holes. Make sure that they are not loose or that they have not been exposed to any mechanical damage. Do not carry out the maintenance procedure while the product is installed on the line under any circumstances.

For periodical inspection, make sure that the inlet and outlet valves are on and that there's pressure on the outlet side. Check all external parts of the product including the connections by using methods such as appropriate foam, liquid, detector, etc. and verify that there isn't any external leak on the product or excessive noise or vibration on the line or the product. Also, review the procedures “Outlet pressure, high pressure shut-off, low pressure shut-off, testing the release functions” that have been described in the setup section on this manual by taking all necessary safety measures.

After the relevant maintenance and inspection procedures, make sure that all accessories and apparatus such as the shut-off protection cap (for the ERG-EH series), the pressure adjustment seals if they exist, the release protection cap, the release filter, etc. are mounted on the product.

Note: In all cases that may cause a gas outflow from the product or the line into the atmosphere; make sure that the product is not indoors, that an hazardous atmosphere is not and will not be created, and that all necessary lines are open into the atmosphere.

In case any problem is observed during the periodical maintenance or inspection, the necessary procedures may be carried out according to the rules specified in the malfunction section.

After the product's maintenance procedure is completed, assemble the product and set it up according to this manual. During the setup procedures, put the product to the appropriate tests described here. After the tests in question, make sure that all accessories and apparatus are mounted on the product such as the shut-off cap, the pressure adjustment seals, the release protection cap, etc. if they exist.

When necessary, contact us in order to request the spare parts (spring, diaphragm, filter, gasket, etc.) of our products.

After the maintenance and repair is completed, reassemble and set up the product as it's explained in this manual. After the set-up is completed, check the relevant functional tests and tightness.

Even if you do not encounter any problems, check the relevant functional tests and tightness each year.

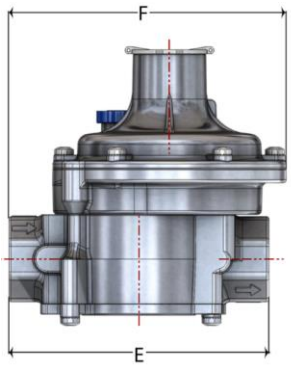
7. CUT-OUT, REMOVAL AND CHANGING

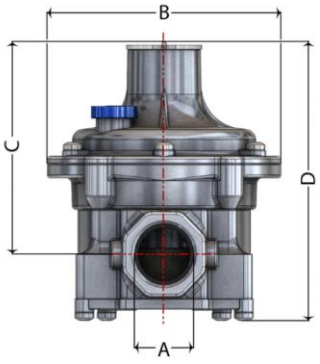
Before, during and after all removals and changes, follow the rules specified on this manual and carry out the necessary procedures. Before and during the removal and changing procedures; make sure that there's no compressed gas on the line and between the line and the product, that the gas supply is shut off, and that the possibility of turning back on is completely prevented.

Turn off the inlet and outlet valves that are located on the line at the back and the front of the product. Release the compressed gas that has accumulated between the line and the product safely and gradually through the part between the gas pressure regulator and the outlet valve. Remove the inlet and outlet connections off the line with an appropriate wrench without using excessive load or force. If it's going to be replaced with a new product, assemble and set up the new product according to this manual.

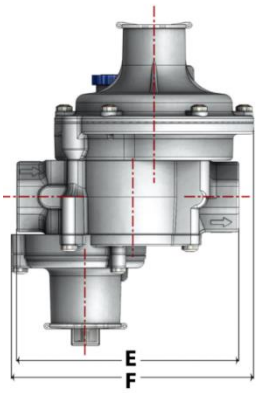
8. DIMENSIONS, LINE CONNECTION DIRECTIONS AND INFORMATION ABOUT THE PARTS

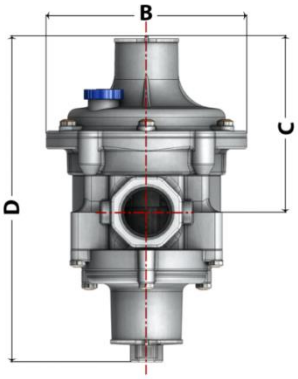
The measurements are in millimeters. The connections below are modular and they can be changed by the manufacturer.



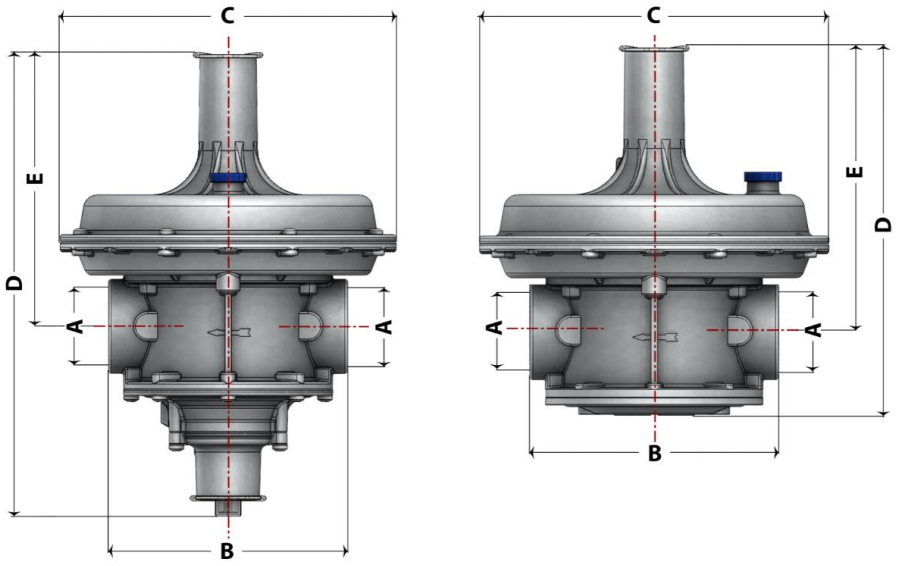


Model	A	B	C	D	E	F
ERG 1015	1/2"	122	107	141	136	145
ERG 1020	3/4"	122	107	141	136	145
ERG 1025	1"	122	107	141	136	145





Model	A	B	C	D	E	F
ERG-E 1015	1/2"	122	106	198	136	146
ERG-E 1020	3/4"	122	106	198	136	146
ERG-E 1025	1"	122	106	198	136	146



Model	A	B	C	D	E
ERG-E 1032	1 1/4"	160	225	311	183
ERG-E 1040	1 1/2"	160	225	311	183
ERG-E 1050	2"	162	225	333	192

Model	A	B	C	D	E
ERG 1032	1 1/4"	160	225	237	183
ERG 1040	1 1/2"	160	225	237	183
ERG 1050	2"	162	225	259	192

Figure 7

9. CAPACITY CHART

ERG and ERG-E Series Gas Pressure Regulators Capacity Chart (m3/h.Natural Gas)						
		Inlet Pressure				
Connection size	Outlet Pressure	50mbar	100mbar	300mbar	500mbar	1000mbar
DN15	15mbar	8	9	15	15	15
	21mbar	8	12	15	15	15
	25mbar	8	12	15	15	15
	50mbar	-	13	15	15	15
	100mbar	-	-	20	25	25
DN20	15mbar	17	17	25	30	30
	21mbar	16	20	25	30	30
	25mbar	15	17	25	30	30
	50mbar	-	15	30	35	35
	100mbar	-	-	40	50	50
DN25	15mbar	23	25	40	50	50
	21mbar	21	25	40	50	50
	25mbar	20	22	40	50	50
	50mbar	-	22	60	70	70
	100mbar	-		70	80	80
DN32	15mbar	40	60	85	100	100
	21mbar	40	60	85	100	100
	25mbar	50	70	85	100	100
	50mbar	-	80	140	140	140
	100mbar	-		140	150	150
DN40	15mbar	40	70	100	120	120
	21mbar	40	70	100	120	120
	25mbar	60	90	100	120	120
	50mbar	-	100	170	170	170
	100mbar	-	-	170	180	180
DN50	15mbar	40	80	120	140	140
	21mbar	55	80	120	140	140
	25mbar	75	110	120	140	140
	50mbar	-	130	200	200	200
	100mbar	-		200	200	200
Internal sense is activated. Working tolerance ÇT10						

You may convert the natural gas flow rate that are provided on the table to the flow rate of other gases by using the following formula
Qxgas: Q natural gas x k
k for air: 0.78 - k for town gas: 1.23 - k for propane: 0.64 - k for butane: 0.55 - k for hydrogen: 3.04 - k for oxygen: 0.76 - k for biogas: 0.85 - k for nitrogen: 0.79
Example: Air flow rate for a natural gas flow rate of 100 m3/h on the table
Qair: Q natural gas x k : 100 x 0.78 : 78 m3/h

10. STORAGE, PRESERVATION, LIFTING, HANDLING, SHIPMENT, LOADING and TRANSPORTATION

The following conditions must be taken into consideration for all products and spare parts:

In order to prevent the damages on the product that may occur during shipment and transportation, our company delivers the product to the customer by placing it in a single or double cardboard, box or package.

The period of storage is subtracted from the product lifecycle and the time of warranty.
The impact of the UV rays and ozone must be eliminated during transportation-shipment-storage (especially for the elastomeric parts).
Carry out the loading-handling-lifting-storing procedures correctly. The product may not function properly due to the reasons such as throwing, excessive shaking, tipping over, falling down, crashing, exposure to overload and excessive force or impact, crushing, stacking with weight, as well as damaging, moistening or tipping over the external parts and projections, etc. Our company cannot be held responsible in such cases.
The product must not be exposed to direct sunlight.
Store it indoors, in an air-conditioned, dim, dry and clean environment.
Make sure that the product is protected from rain, water, snow, extreme heat or cold, etc. during shipment, transportation and storage.
There must not be any direct heat source in the storage area.
Make sure that the operation floor is flat and clean, and isn't wet and slippery.
Do not overload or elevate the products during shipment.
Pay special attention to the external parts and projections.
Storage must be carried out without electrical stress.
If there's any surface treatment on the product (sandblasting, coating, dyeing, etc.), it must not be damaged during shipping.
There must not be any residue, moisture or wetness on the product while repacking.
The product must be stored in areas that have been insulated from forces such as falling, tipping over, shock, impact, vibration, etc. and that are protected from the conditions of corrosion or wearing out (sun, atmosphere, rain, snow, moisture, water, external chemicals, etc.), in a way that will not be affected by natural events such as earthquakes, floods, fire, etc. or adverse weather conditions as well as dirt, mud or contamination.
Do not remove the products from the original box or package unless they will be used. Do not replace the box or the package.

11. LABEL INFORMATION

The information marked with * may be added or removed upon the manufacturer's request.

ERG-E Series Products;

ESKA	ESKA VALVE A.Ş. Place: Sakarya/TURKEY www. eskavalve.com	CE 2354 according to the 2014/68/EU PED	
GAS PRESSURE REGULATOR			
Model-Type-Series:		PN (PS):	
Serial Number:		Pgmin - Pgmax:	
Production date (Year):		Pç:	
Fluid:		*AS:	
TS:		*ASA - ASÜ	
DN		Qmin-Qmax sm3/h:	
*Test Pressure PT:	Pgmax x1,5 bar	EBÜ	
*Brand:		EBA	
		*ETÜ/ETA ±%	
		*ÇT ±%/ KT +%	

ERG Series Products (DN32-DN40-DN50);

ESKA	ESKA VALVE A.Ş. Place: Sakarya/TURKEY www. eskavalve.com	CE 2354 according to the 2014/68/EU PED	
GAS PRESSURE REGULATOR			
Model-Type-Series:		PN (PS):	
Serial Number:		Pgmin - Pgmax:	
Production date (Year):		Pç:	
Fluid:		*AS:	
TS:		*ASA - ASÜ	
DN		Qmin-Qmax sm3/h:	
*Test Pressure PT:	Pgmax x1,5 bar	*ÇT ±%/ KT +%	
*Brand:			

ERG Series Products (DN15-DN20-DN25);

ESKA	ESKA VALVE A.Ş. Place: Sakarya/TURKEY www. eskavalve.com	
GAS PRESSURE REGULATOR		
Model-Type-Series:	PN (PS):	
Serial Number:	Pgmin - Pgmax:	
Production date (Year):	Pç:	
Fluid:	*AS:	
TS:	*ASA - ASÜ	
DN	Qmin-Qmax sm3/h:	
*Test Pressure PT: Pgmax x1,5 bar	*ÇT ±%/ KT +%	
*Brand:		

Abbreviations:

TS: Working Ambient Temperature Range
DN: Nominal Diameter
PS: Maximum Allowed Inlet Pressure
PN: Nominal Inlet Pressure
Pgmin: Minimum Inlet Pressure
Pgmax: Maximum Inlet Pressure
Pç: Outlet Pressure
Qmin: Minimum Flow Rate
Qmax: Maximum Flow Rate
EBÜ: Upper Safety Pressure
EBA: Lower Safety Pressure
ASÜ: Upper Adjustment Field
ASA: Lower Adjustment Field
ETÜ: Upper Safety Pressure Tolerance
ETA: Lower Safety Pressure Tolerance
ÇT: Outlet Pressure Tolerance
KT: Lock-up Pressure Tolerance

12. MALFUNCTIONS, REPAIR, PROBLEMS AND SOLUTIONS

Before, during and after all malfunctions, follow the rules in the order specified on this manual and carry out the necessary procedures. Pay special attention to informing the end users and take the necessary precautions against the dangers of compressed gas.

End users must not carry out any repairing procedures on the product. All repairing procedures must be carried out by authorized services and personnel. The people other than users or authorized personnel must not respond to the product and the line in case of a malfunction.
If you suspect a malfunction, it's recommended that you carry out the procedures on Table 1 according to the type of the problem. If you do not want to carry out these procedures, or if you cannot eliminate the problem even after you carry them out; do not try to interfere with the product any more. Remove the product off the line according to the rules of removal specified below without trying to open it up, send the product to our company, and install a new product on the line. The maintenance, repairing and changing procedures must not be carried out in a way that will interfere with the internal parts of the product.
The maintenance and repairing must be carried out on empty systems and products that have been removed off the line. Only use original spare parts.

If the product receives pressure higher than the maximum allowed pressure specified in the technical properties section above, the device may break down and there'll be a high, continuous and non-adjustable pressure transfer through the outlet side.
A high amount of dust coming from the line may obstruct the regulator's cartridge over time. This leads to a decrease in the flow rate of the gas on the line.
If you suspect a gas leak on the line where the regulator is installed, contact us or the authorized company that installed the product on the line as soon as possible.

If the outlet pressure cannot be adjusted, this means that the product has malfunctioned.

Problems and Solutions		
Problem Code	Problem	Codes for the procedures in order
P1	Dirty filter	10,11
P3	Mechanical damage	1
P4	Unable to setup	13,9,25,1
P5	No gas passage	26, 3,14,16,18,10,11,5,2,4,25,1
P6	External leak	16,18,1
P7	High outlet pressure outside the tolerance range	8,7,2,1
P8	Low outlet pressure outside the tolerance range	16,18,5,6,3,2,1
P9	Release system errors (if exists)	7,8,2,1
P10	Insufficient flow rate	3,10,24,11,4,2,1
P11	Shut-off errors (for ERG-E series)	19,27, measure the outlet pressure to see if it increases, carry out the procedures 7,8,2 if it does, 20,21,25,1
P12	Missing accessories	23
P13	Noise and Vibration	24

Table 1

Descriptions of the codes for the procedures to be carried out in order during problems
1- Change the product with a new one
2- Measure the outlet adjustment pressure and fix it if erroneous, consider changing the spring if necessary
3- Make sure that you did not choose the wrong product regarding the flow rate and the outlet pressure, verify that the gas flow direction is correct
4- Measure the inlet pressure and make sure that it's not less than the minimum inlet pressure
5- Check to see if there's a thrust higher than the product's capacity
6- Examine if there's an external leak on the outlet line

7- Check whether or not there's an excessive diameter shrinkage on the outlet line
8- Stop the gas thrust on the outlet side, turn off the inlet valve and then turn it back on, reactivate the product and check the result
9- Remove the product off the line and try again after reassembling
10- Remove the product off the line, remove the filter on the inlet connection nozzle and clean it according to the maintenance rules, place the new filter if necessary, remount the product on the line.
11- Take precautions for cleaning the line
13- Check whether or not the shut-off lever turns off. If it does, check to see that there isn't excessive narrowing on the line outlet. Then, when carrying out the setup procedure; pull and hold the shut-off lever, loosen the protection cap if it exists, turn down the inlet valve a little, momentarily relieve the compressed pressure on the outlet side, and then reverse all procedures.
14- Check whether or not the shut-off lever is shut off. If it's shut off, re-setup the product and check the result
16- Check if there is any loose screw. If there are, tighten them according to the rules (do not carry out this procedure if there's a seal on the screws)
18- If there's a leak on the release part, check to see that there isn't excessive diameter narrowing on the outlet line. If there isn't, stop the gas thrust on the outlet side. Turn off the inlet valve, turn it back on, reactivate the product and check the results
19- Check if there's an indication of an impact or a tilt on the shut-off lever
20- Check to see that there isn't a narrowing on the outlet sense line
21- Measure the shut-off adjustment pressure and correct it if there's an error
23- Detect the missing parts such as the shut-off protection cap, the pressure adjustment seals if they exist, release protection cap if it exists, release sieve if it exists etc., procure them from the factory and manually mount them
24- Check if the assembly position is correct, if there's a fluctuation of the inlet pressure, if there are any unwanted narrowings such as in the diameter, etc. in the area close to the outlet side.
25- Try setting up the product again.
26- If the shut-off lever is turned off; notify the relevant parties, make sure that no one uses the gas, and set up the product again according to the rules.
27- Check to see if there might have been an increase in pressure on the outlet flow due to the abrupt stopping of the boiler

Things To Do In Case of Smelling Gas:

If you smell any gas on the line where the product is mounted, or if the gas alarm devices go off in the area where the product is located, you must keep calm and carry out the procedures described below.

- Shut off the gas source using the main gas control-valve and/or the storage tanks (for LPG),
- Starting from the one closest to you, shut off the gas valves and gas devices,
- Open the doors and the windows in order to increase ventilation,
- Do not use the materials that might cause flames (cigarette, lighter, match, etc.), put out all open fires, fuming materials and sources that might generate spark or fire; do not restart them,
- Do not touch any electrical equipment; do not turn them on or off and do not touch their plugs (fuse, doorbell, switch, etc.) (the ones that are on must stay on and the ones that are off must stay off).
- Do not use cell phones or radios to avoid the risk of sparks,
- If there's a fire, put it out. Put out all naked flames including all fuming materials,
- Call the gas distribution company when you are in a safe place.

After completing the procedures above, if the reason behind the gas leak is detected and the leak is eliminated, you may consult the relevant bodies (gas distribution company, installer, etc.) and have the authorized installers turn the valves and devices back on. Before turning the gas back on, you must ABSOLUTELY notify all residents or make sure that they are notified that the gas will be turned back on.

If there's inflammation in the area, it is ineffective and dangerous to try to put them out before shutting off the gas using the valves.

Life cycle: The product life cycle is 5 years. The life cycle is valid provided that all procedures and situations are handled in accordance with this manual.

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_009_R00
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)*	Gas Pressure Regulator With Safety Shutoff Valve *Emniyet Kapatmalı Gaz Basınç Regülatörü*
Product Model / Type / Serie *(Ürün Modeli / Tipi / Seri)*	ERG-E Series *ERG-E Serisi*
Product Information *(Ürün Bilgileri)*	PS0.6 , PS1 , PS2 and TS: -10;50°C , -20;60°C , on request with (-40;60°C) and DN15-DN20-DN25-DN32-DN40-DN50 Threaded Connection (on request with modular connection) and ÇT 5/10/15/20, KT 10/20/30, ETÜ-ETA 5/10/20/30 *PS0.6 , PS1 , PS2 ve TS:-10;50°C , -20;60°C , istek üzerine (-40;60°C) ve DN15-DN20-DN25-DN32-DN40-DN50 Dişli Bağlantı (istek üzerine modüler bağlantı) ve ÇT 5/10/15/20, KT 10/20/30, ETÜ-ETA 5/10/20/30*
Declaration Issue Date *(Deklarasyon Yayın Tarihi)*	13.10.2020
The name of the Notified Body and No *(Onaylanmış Kuruluşun Adı ve Numarası)*	(MODUL B) SZUTEST UYGUNLUK DEĞERLENDİRME A.Ş. - 2195 (MODUL D) TÜV Teknik Kontrol ve Belgelendirme A.Ş.– 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**	…….. / …….. …….. / ……..
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.*
Note *(Not)*	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.*

Manufacturers Authorized Signature
(Üretici İmza Yetkilisi)
Erhan SARDAL
General Manager *(Genel Müdür)*
Sakarya/Türkiye, 13.10.2020

ESKA
VALVE ANONİM 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

Rev.2 – 11.03.2025

ESKA

CE

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_010_R00
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)*	Gas Pressure Regulator Without Safety Shutoff Valve *Emniyet Kapatmasız Gaz Basınç Regülatörü*
Product Model / Type / Serie *(Ürün Modeli / Tipi / Seri)*	ERG Series *ERG Serisi*
Product Information *(Ürün Bilgileri)*	PS0.6 , PS1 , PS2 and TS: -10;50°C , -20;60°C , on request with (-40;60°C) and DN32-DN40-DN50 Threaded Connection (on request with modular connection) and ÇT 5/10/15/20, KT 10/20/30 *PS0.6 , PS1 , PS2 ve TS:-10;50°C , -20;60°C , istek üzerine (-40;60°C) ve DN32-DN40-DN50 Dişli Bağlantı (istek üzerine modüler bağlantı) ve ÇT 5/10/15/20, KT 10/20/30*
Declaration Issue Date *(Deklarasyon Yayın Tarihi)*	23.10.2020
The name of the Notified Body and No *(Onaylanmış Kuruluşun Adı ve Numarası)*	TÜV Teknik Kontrol ve Belgelendirme A.Ş.– 2354
EU Conformity Assessment Method *(AB Uygunluk Değerlendirme Yöntemi)*	2014/68/EU PED Category I, Modul A2
Modul A2 Certificate No / Valid Until	…….. / …….
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.*
Note *(Not)*	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.*

Manufacturers Authorized Signature
(Üretici İmza Yetkilisi)
Erhan SARDAL
General Manager *(Genel Müdür)*
Sakarya/Türkiye, 23.10.2020

ESKA
VALVE ANONİM 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

Rev.2 – 11.03.2025

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_011_R00
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, 11. Cadde, No:6-8, Arifiye/Sakarya/Türkiye
Product Description *(Ürün Tanımı)*	Gas Pressure Regulator Without Safety Shutoff Valve *Emniyet Kapatmasız Gaz Basınç Regülatörü*
Product Model / Type / Serie *(Ürün Modeli / Tipi / Seri)*	ERG Series *ERG Serisi*
Product Information *(Ürün Bilgileri)*	PS0.6 , PS1 , PS2 and TS: -10;50°C , -20;60°C , on request with (-40;60°C) and DN15-DN20-DN25 Threaded Connection (on request with modular connection) and ÇT 5/10/15/20, KT 10/20/30 *PS0.6 , PS1 , PS2 ve TS:-10;50°C , -20;60°C , istek üzerine (-40;60°C) ve DN15-DN20-DN25 Dişli Bağlantı (istek üzerine modüler bağlantı) ve ÇT 5/10/15/20, KT 10/20/30*
Declaration Issue Date *(Deklarasyon Yayın Tarihi)*	23.10.2020
EU Conformity Assessment Method *(AB Uygunluk Değerlendirme Yöntemi)*	2014/68/EU PED Sound Engineering Practice (SEP)
Declaration *(Deklarasyon)*	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. This declaration of conformity has been published under the responsibility of Eska Valve A.Ş *Yukarı da tanımlanan üzerinde seri no olan ürünlerimizin, 2014/68/AB - Basınçlı 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 - Basınçlı Ekipmanlar Direktifi Madde 7 (3) gereği bu ekipmanlara CE işareti taşımaması gerektiğini beyan ederiz. Bu uygunluk beyanı Eska Valve A.Ş nin sorumluluğu altında yayınlanmıştır.*
Note *(Not)*	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.*

Manufacturers Authorized Signature
(Üretici İmza Yetkilisi)
Erhan SARDAL
General Manager *(Genel Müdür)*
Sakarya/Türkiye, 23.10.2020

ESKA
VALVE ANONİM 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

TERMS OF WARRANTY

1) The warranty period starts with the delivery of the product and is 2 years.

2) The entire product, including all parts thereof, is covered by the warranty.

3) In such cases where the replacement of the defective goods by those free of defects would cause disproportionate challenges to the Seller, the Consumer shall be entitled to either rescission of the agreement or a discount over the sales price in proportion to such defects thereof. For determination of disproportionality, factors such as the value of the goods free of defects, the severity of the defect, and whether resorting to other rights of choice would constitute any problem for the Consumer are taken into consideration thereof. In cases where the Consumer chooses rescission of the agreement or a discount over the sales price in proportion to such defects, the Seller shall be obliged to refund the Consumer the sales price of the goods in full or the discount amount as applicable without delay. In case the Consumer chooses the replacement of the defective goods by those free of defects, then the Seller, the manufacturer, or the importer shall be obliged to fulfill such a request within thirty (30) business days from the date of notification for the replacement of such defective goods by those free of defects thereof.

4) In case the Consumer chooses the repair of the goods free of charge, among such other options, then the Seller shall be obliged to perform or cause to perform the repair of such defective goods without any claim for workmanship cost, cost of replaced parts, or any other cost or expense under any title whatsoever. The Consumer may also exercise its right of repair free of charge against the manufacturer or importer thereof. The Seller, the manufacturer, and the importer shall be jointly and severally liable for the Consumer to exercise such rights thereof.

5) In the case that the Consumer uses the right to receive free repair, if the product breaks down again within warranty period, - if the maximum time provided for repair is exceeded, - if the authorized service station, Seller, manufacturer or importer determines with a report that repair is not possible; the Consumer can request the refunding of the price paid for the product, or price discount at the rate of the defect, or, if possible, replacement of the good with a faultless equivalent. The Seller cannot reject such request of the Consumer. If this request is not fulfilled, the Seller, manufacturer and the importer are jointly and severally responsible.

6) The maximum period of repair of defective goods is 20 business days. Such period commences on the date of notification of the relevant defects in the goods to the service station or the Seller within its warranty period, or otherwise, upon delivery of the defective goods to the service station in case the warranty period of the goods has expired. In case of any defects in the goods within the warranty period, the repair period is added to the warranty period thereof. It is mandatory to determine whether such defects are attributable to misuse by the Consumer by a formal report to be issued by the service stations, or otherwise, in case such service stations are not available, by the Seller, the importer, or the manufacturer of the goods, respectively, as applicable within the maximum period of repair of the goods, and provide the Consumer with a copy of such report thereof. The warranty period of the replaced goods under warranty shall be limited to the remaining warranty period of the originally purchased goods thereof.

7) The defects caused by usage of the product against the provisions of the user's manual and failures caused by usage errors are not covered by warranty.

8) The Consumer shall be entitled to refer to the Consumer Arbitration Committee or the Consumer Court of the Consumer's residence or of the jurisdiction where consumer proceedings take place in case of any disputes arising out of or in relation to exercising the rights under such warranty thereof.

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WARRANTY CERTIFICATE

The Manufacturing Company's;

Title : ESKA VALVE A.Ş.
Address : Sakarya 1. Organize Sanayi Bölgesi Mahallesi, 11. Sokak, No: 6-8, Arifiye/Sakarya/Turkey
Telephone : +90 (264) 502 54 34-35
Fax : +90 (264) 502 54 84
E-mail : info@eskavalve.com
Authorized Signature:
Company Stamp:

The Vendor's;

Title:
Address:
Telephone:
Fax:
E-mail:
Authorized Signature:
Company Stamp:

The Product's;

Type: Gas Pressure Regulator
Brand: ESKA
Model -Series : ERG-E and ERG
Warranty: 2 years
Maximum Time To Repair: 20 business days
Invoice Date and Number:
Date of Delivery to the Consumer:
Place of Delivery to the Consumer:
Banderole and Series Number: