TORK®
valve & automation
high quality

GAS VALVE
USER MANUAL

SMS®

SMS SANAYİ MALZEMELERİ ÜRETİM VE SATIŞI A.Ş.

Read the instructions before using the equipment!

INGREDIENTS

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Please read and keep this operating manual.

All information and instructions specified in this operating manual should only be performed by authorized services or authorized personnel.

The mounting, set-up adjustments, usage and maintenance works which have been performed inconsistent with the instructions may lead to injuries or material damages. Therefore, read this manual carefully prior to use the equipment. This equipment should be mounted in accordance with the current technical directives.

Please comply with the application conditions and specify the type of relevant equipments in addition to the existing instructions.

DECLARATION OF CONFORMITY: As the manufacturer company, we declare that the gas valve marked with CE complies with the directives of 97/23, 2004/108/EC and 2006/95/EEC. The products which have been marked in compliance with the directives are the same as the samples controlled by 0036 numbered authority. Quality assurances of the products have been ensured in accordance with ISO 9001-2008.

1. EQUIPMENT OVERVIEW

a. Intended Use of the Equipment

Normally open solenoid gas valve shots down when the electrical energy is provided and is adjusted manually. As there is no electrical consumption during normal operation; wearing, noise or some other negative aspects are not observed on the equipment and energy efficiency is ensured. It can be used as an emergency valve at outdoor spaces. It keeps closed until it restarted manually.

In the Normally Closed solenoid gas valves the fluid flow is ensured until the electrical energy is provided. When the energy is stopped, the valve shuts down. Especially in industrial type furnaces when the power cut or in any electrical fault this valve will shots off the gas flow.

Figure – 1 Gas Valve (Small Body)

Figure – 2 Gas Valve (Large Body)

The gas valves are produced with the body shown in Figure 1 for the dimensions from 3/8" to 1" and with the body shown in Figure 2 for the dimensions from 1 ¼" to 2". Internal structures of the small and large bodies of normally open and normally closed gas valves are the same.

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USER MANUAL

S80
SERIES

b. Exploded Figures and Parts List

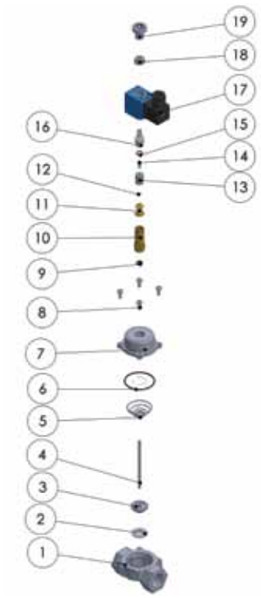

Figure 3: Exploded Figure of Normally Open Gas Valve

NO	PART NAME	QUANTITY
1	BODY	1
2	O-RING	1
3	SIT RUBBER	1
4	NEW SIT GAS	1
5	GAS SHAFT	1
6	NEW GAS SIT	1
7	SMALL GAS CAP	1
8	SCREW	4
9	NUTRING	1
10	BRASS TUBE	1
11	BOTTOM CORE	1
12	BALL	4
13	UPPER CORE	1
14	CORE SPRING	1
15	TOP COPPER	1
16	TOP COVER	1
17	COIL	1
18	FLANGED NUT	1
19	HANDLE	1

Tablo 1: Part List of Normally Open Gas Valve

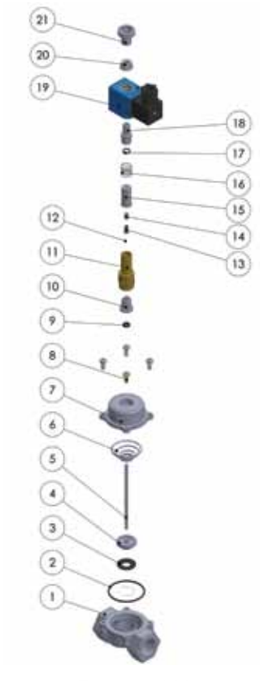

Figure 4: Exploded Figure of Normally Closed Gas Valve

NO	PART NAME	QUANTITY
21	HANDLE	1
20	FLANGED NUT	1
19	COIL	1
18	NORMALLY CLOSED HEAD	1
17	COPPER WASHER	1
16	FLAT SPRING	1
15	CORE	1
14	SPRING	1
13	INSIDE CORE	1
12	BALL	8
11	BRASS TUBE	1
10	BOTTOM CORE	1
9	NUTRING	1
8	SCREW	4
7	CAP	1
6	SPRING	1
5	SHAFT	1
4	SIT	1
3	SIT GASKET	1
2	O-RING 47X2	1
1	BODY	1

Tablo 2: Part List of Normally Closed Gas Valve

c. Technical Specifications

Usage Areas	Mains and industrial usages
Road Number	2/2
Position	Normally Open and Normally Closed
Gasket	NBR (nitrile rubber)
Fluid Type	Natural gas, LPG, propane, butane, city gas, air, nonabrasive gases (3 numbered gas group)
Ambient Temperature	-15 ˚C /+60 ˚C
Maximum Surface Temperature	60 ˚C
Maximum Input and Maximum Operating Pressure	0.5 bar
Shut Down Period	Below 1 second
Threaded Connection	3/8″, ½″, ¾″, 1″, 1 ¼″, 1 ½″, 2″
Coil Continuance	%100 ED
Insulation Class	H (180 Degree)
Protection Class	IP 65 (EN 60529)
Standard Voltages	12V, 24V, 48V, 110V, 230V AC, 12V, 24V, 48V, 110V DC
Voltage Tolerance	+ - %10
Body and Cap Material	Aluminium
Internal Part Materials	Stainless Steel and Brass
O-ring and Gasket Materials	H-NBR
Coil Material	Its external plastic is made of fibre-glass reinforced nylon

Table 3: General Technical Specifications

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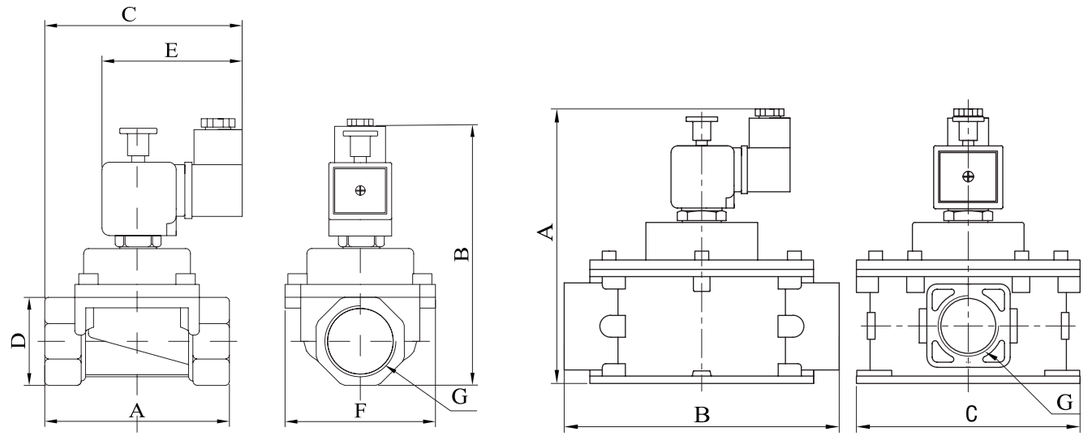
S80
SERIES



G	A	B	C	D	E	F
3/8″	86	142	101	41	75.5	70
1/2″	86	142	101	41	75.5	70
3/4″	86	142	101	41	75.5	70
1″	86	142	101	41	75.5	70

G	A	B	C
1 1/4″	180	160	140
1 1/2″	180	160	140
2″	180	160	140

Table – 4 Gas Valve Dimensions

Model No / Order No	Connection Diameter	Orifice	Pressure min/max		Kv	Fluid Temperature ˚C		Diaphragm
S8011	G	mm	bar	bar	m³/h	min	max	
S8011.02	3/8″	24	0	0.5	10	-10	80	NBR
S8011.03	1/2″	24	0	0.5	14	-10	80	NBR
S8011.04	3/4″	24	0	0.5	32	-10	80	NBR
S8011.05	1″	24	0	0.5	38	-10	80	NBR
S8011.06	1 1/4″	40	0	0.5	105	-10	80	NBR
S8011.07	1 1/2″	40	0	0.5	125	-10	80	NBR
S8011.08	2″	50	0	0.5	145	-10	80	NBR

Table -5 Dimensions of the Normally Open Gas Valve

Model No / Order No	Connection Diameter	Orifice	Pressure min/max		Kv	Fluid Temperature ˚C		Diaphragm
S8086	G	mm	bar	bar	m³/h	min	max	
S8086.02	3/8″	24	0	0.5	10	-10	80	NBR
S8086.03	1/2″	24	0	0.5	14	-10	80	NBR
S8086.04	3/4″	24	0	0.5	32	-10	80	NBR
S8086.05	1″	24	0	0.5	38	-10	80	NBR
S8086.06	1 1/4″	40	0	0.5	105	-10	80	NBR
S8086.07	1 1/2″	40	0	0.5	125	-10	80	NBR
S8086.08	2″	50	0	0.5	145	-10	80	NBR

Table – 6 Dimensions of the Normally Closed Gas Valve

d. Labelling

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USER MANUAL
S80
SERIES

2. EQUIPMENT INSTALLATION

The following instructions as well as the installation and mounting works should only be carried out by certified, authorized and specialist technicians, firms and services which are approved by gas certification institutions. End user should not perform such kinds of works on the equipment in any way.

Gas valve is normally mounted before being delivered to the user. It should be mounted in a way that the arrow on the body will indicate the user; in this way, the flow will be directed from the system to the user. Tighten and connect the male thread on the equipment line with the help of a wrench and make required checks against sealing.

Gas valve may be mounted in any position thanks to its form; however, it should be preferred to mount it in a way to place the gas valve cap and therefore its spring vertically to face upward (it is not recommended to mount the gas valve cap downward). Gas valve should be mounted to the horizontal pipes. In case of necessity, prefer connecting it to vertical pipes.

Prior to the commencement of the mounting works, necessarily match the voltage of the valve coil with the voltage value to be provided for the valve. Make sure that 220V AC supply is not provided to the 12V DC coil. Otherwise, the valve will not function as the coil breaks down.

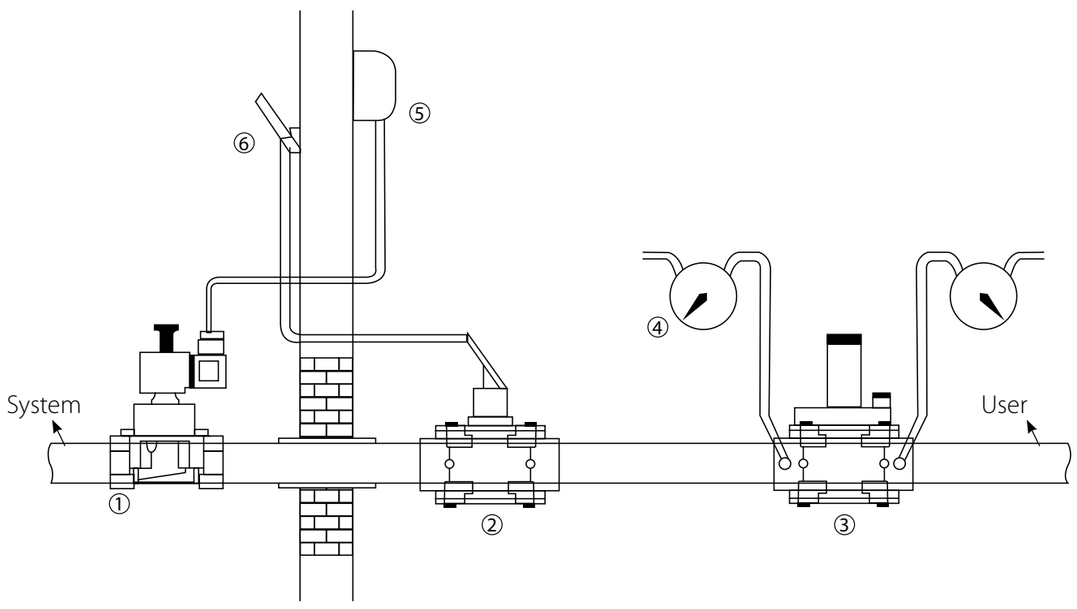
The equipment should not be exposed to overloading or damage while performing mounting works. Make the connection without mechanical stress. It should be noted that the body may crack due to overloading to be applied. Therefore, mount the equipment by using a wrench.

It should be checked prior to the commencement of the mounting work that the valve coil has not been powered and required safety precautions have been taken.

Gas valve is connected to the line with the help of moving glands (according to the standards). Gas valve is not mounted by means of being turned over the body in any way.

1. We recommend you to place a filter in front of each installation.
2. It should be checked prior to the mounting work that the line pressure does not exceed maximum pressure level indicated on the label of the equipment.
3. The conformity of the dimensions of the equipment with the line should be checked prior to the mounting work.
4. Clean the whole piping line which the gas valve will enter into and pull out from such foreign substances as welding dusts, dirt, chips etc. Make sure that there are no foreign substances in any part of the line.
5. Never connect the gas valve while its installation is cleaned with the help of pressurized air. Even if it is connected, remove it from the line. Make sure that the pipes are clean and aligned before performing any mounting work.
6. It should be checked whether the line to which the gas valve will be connected has any axial eccentricity.
7. Make sure that the gas supply is closed and no pressurized gas presents in the line to which the gas valve will be fixed prior to the commencement of the mounting work and it should also be ensured that such a possibility is prevented during the performance of the mounting work and the manual valve that is used before the gas valve and provides gas flow to the gas valve is closed.
8. 8. It should be checked before the performance of the mounting work that the mounting location is far enough to affect from sparks and electrical currents which may be resulted from inflammable materials and devices.

9. The earth connection on the coil should be made. Make sure that the phase, neutral and earth connections of the coil are properly performed.
10. If there is moisture and water condensation in the mounting environment, required precautions should be taken. The fuse voltage should be the same as the solenoid voltage.
11. Prior to the commencement of the mounting work, it should be checked if there are any foreign matters such as particulates, dirt etc. in the line to which the gas valve will be connected.
12. An inert gas application has to be made on the natural gas installation used prior to the performance of cutting and welding works during mounting.
13. During the installation work, the possibility of the gaskets, chips and metal parts to enter into the equipment should be prevented.
14. Use the gasket materials which are allowed to be employed during mounting works. Never apply force on the cap or body during mounting works and mount the equipment with a proper wrench.
15. Check whether the gas valve is mounted reversely or not upon the completion of the mounting work. After the installation, always check the system against gas leakage. An exemplary mounting procedure as well as the dimensions of the equipment are indicated below.



1	Gas valve	4	Manometer
2	Remote controlled isolating valve	5	Gas alarm device
3	Gas filter	6	Control lever of the remote controlled isolating valve

Figure - 5 Mounting and Line Diagram of the Manually Adjusted Gas Valves

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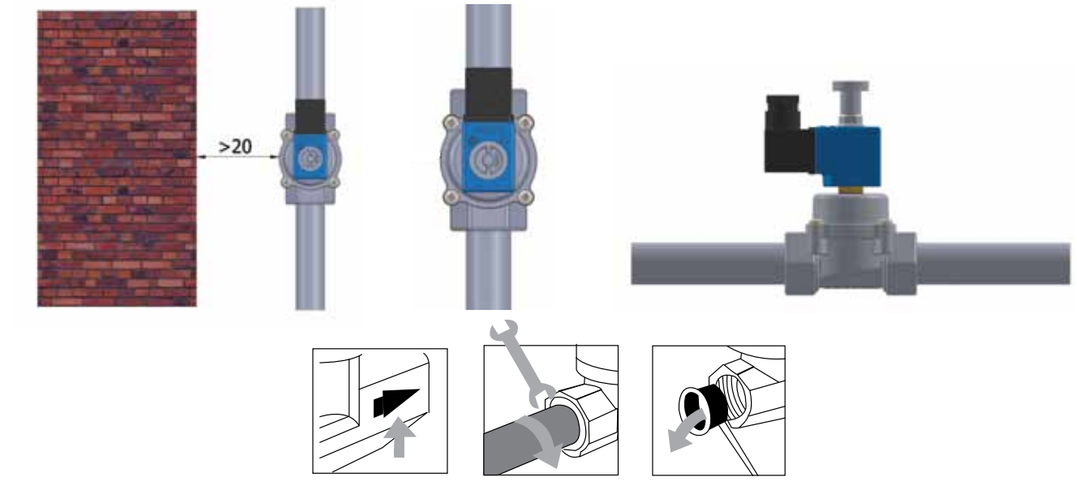

Figure – 6 Mounting of the Gas Valve

There are proper mounting examples above. The body should not contact with the wall. At least 20 mm space should be left between the body and wall.

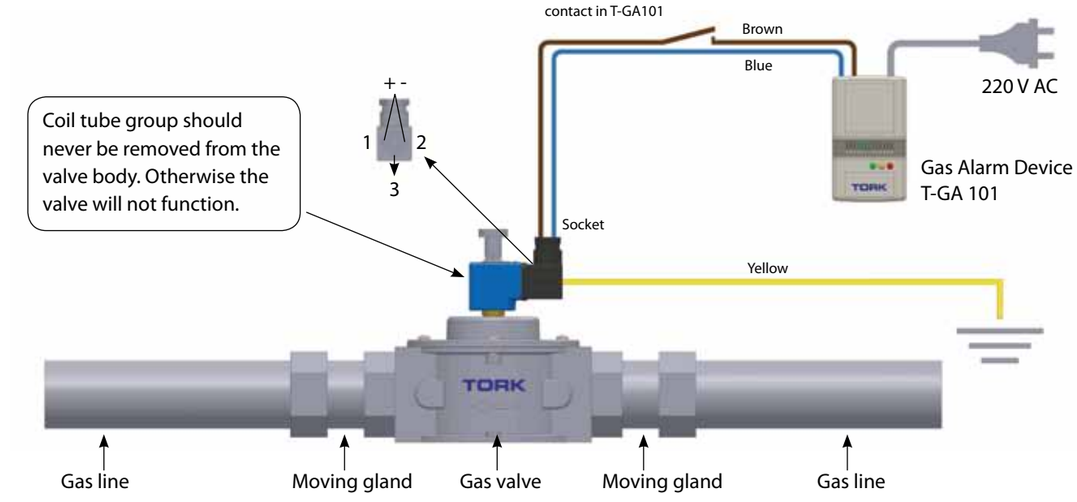

Figure - 7 Installation of the Normally Open Gas Valve

a) After the gas alarm senses the leakage, solenoid valve is provided energy and it shuts down the gas line and the gas flow is suspended in this way.

b) The solenoid valve is connected to the line with the help of glands (in accordance with the standards) as shown in the figure above. The solenoid valve is not mounted by means of being turned over its body in any way.

c) There are 3 cable entries on the coil. 1 of them is connected to the earth (Number 3) and the other 2 are connected to the phase and neutral (Number 1 and 2) and the phase may be connected to any of such ends. Earth is separately performed. The cables of the supply plug can be performed in both directions in the electrical mounting.

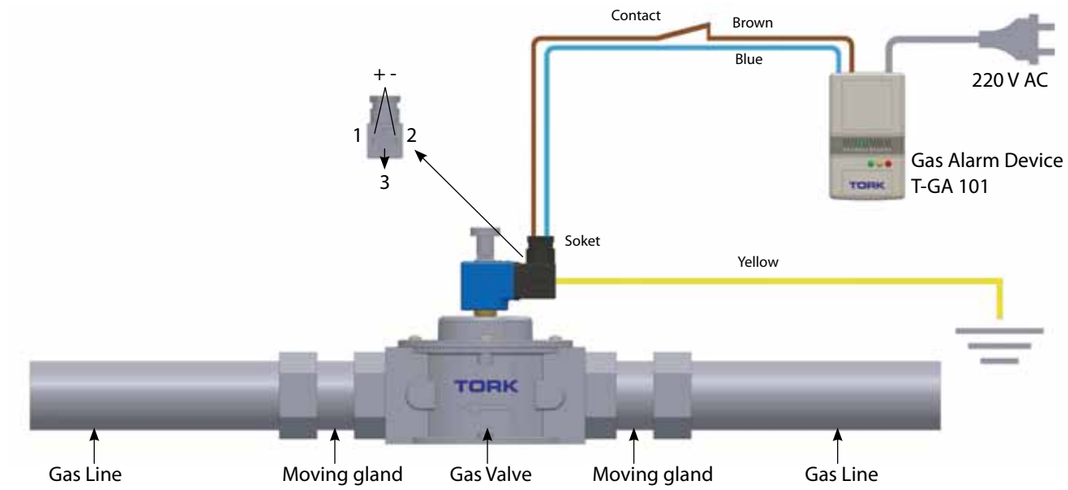

Figure – 8 Installation of the Normally Closed Gas Valve

a) When the gas alarm device senses the gas leakage it cuts the energy povides to the coil and then the valve. The gas flow stops. When the solenoid valve is manually adjusted, then the gas flow restarts. In this case, the gas alarm device should be Closed Contact which is specially produced.

b) If the power within the building is cut for any reason, the energy provided to the socket of the solenoid valve will be cut, too. In this case, the solenoid valve will shut down the gas line as detailed in (a) above.

c) The coil may be directly connected to the system in some applications (e.g. industry type ovens). In this case, the flow of the natural gas will also be stopped upon any power cut.

3. EQUIPMENT MAINTENANCE

The tube should never be removed during ant maintenance or repair work. Otherwise, the equipment will not function again as it has an internal structure with ball.

The following instructions as well as the installation and mounting works should only be carried out by certified, authorized and specialist technicians, firms and services which are approved by gas certification institutions. End user should not perform such kinds of works on the equipment in any way. Users or non-authorized persons should not interfere with the equipment and line in case of any maintenance, failure or repair.

• The user is responsible to have the equipment maintained at specified intervals (it is recommended to be shorter than 1 year) according to the conditions under which the equipment is being operated and to make sure proper functioning of the system. When any cleaning or maintenance work is required in accordance with the usage conditions, the equipment may be removed from the line.

• Prior to the removal of the gas valve from the line for the purpose of maintenance, repair or replacement, make sure that no pressurized gas presents in the line, the power supply is cut and such conditions are adjusted to be in the same state until the abovementioned operation is completed and the manual valve which is used before the gas valve and provides gas outlet to the gas valve is closed.

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• If any maintenance work is required to be performed, screws are removed as a first step. Afterwards, the cap and body is manually separated from each other. Relevant maintenance and repair works are performed on the body. The gas sit, rubber and spring are examined; if required, they are replaced with new ones. Apart from these, shaft or tube is never removed; in case that such a request is made, the equipment should be sent to our company and relevant maintenance work should be performed by us. Fix the removed parts to their places by means of following the reverse order of the abovementioned instructions and complete the maintenance work. Upon the completion of the maintenance work, place the gas valve on the line following the instructions specified in the mounting section.

• After the performance of maintenance and repair works, necessarily use appropriate sealing elements (PTFE band, external conic gland etc...) to ensure tightness prior to mount the gas valve to the line. It is a must to check the tightness of the gas valve upon the completion of the maintenance and repair works performed; if required, make use of foam to conduct such control.

• In the event that the fluid passing through the gas valve is a biogas, maintenance and function controls should be performed once in every 6 months.

• You can provide such spare parts of our equipments as springs, diaphragms, o-rings etc. from our factory.

• If the product becomes unusable, you should have it replaced with the new one by means of making contact with our factory. Call us to receive detailed technical information about the problems for spare parts, authorized services and maintenance and repair works.

4. POINTS AND WARNINGS TO TAKE INTO CONSIDERATION

It is recommended to make use of our product in all gas lines for the sake of security. Particularly under the critical installation conditions (unprotected areas, insufficient ventilation, poor service and maintenance) or in the event that inflammable materials or hazardous devices are close to the gas valve during normal operation, the conformity of the gas valve with the distance from such materials and devices should be assessed prior to the installation and in the course of operation in order to avoid of electric arc or the effects of spark. The underlying reason of such assessment is there may be potential triggers in such cases and dangerous situation may take place.

Moreover, in order to avoid the possibility of the gas valve to create a source of an explosive zone (Zone 0) in any case, preventive measures should be taken (For instance the emission degree of such source may be changed with the help of periodical maintenance works or the explosive substances around may be removed).

It should be checked prior to the commencement of the mounting work whether there is any damage on the equipment and the required parts are complete or not. If it is founded out that there is damage or a part is missing, then the delivery of the equipment should not be taken. The label and other information on the equipment and on its package should be controlled prior to start using our equipments.

It should be checked prior to the commencement of the mounting work again whether the line pressure exceed maximum pressure level indicated on the product label or not. The conformity of the product to be fixed prior to the mounting work with the system to be used should be controlled as well. The operation limits indicated in the technical specifications section should not be exceeded and the product should not be supplied more pressure than its maximum value.

It should be ensured that the arrow situated on the body of the regulator faces the side of the end user. Make sure that no gas presents in the line to which the regulator will be connected and such possibility is prevented during the mounting works.

Necessarily use appropriate sealing elements (PTFE band, external conic gland etc...) to ensure tightness prior to the commencement of the mounting work or make sure that tightness is assured. Carefully check whether any leakage is observed or not in the connection point of the equipment with the line while examining the efficiency of its performance.

It should be ensured that the equipment has been connected to the line properly and the connections have been made precisely. Mount the gas valve and all other parts to relevant places in accordance with their usage directions. Make sure that you have not mounted the gas valve reversely. Do not mount the gas valve to the vertical pipes. It may be monted vertically for the top-down flows in some obligatory cases.

All personnel to perform maintenance, mounting and all other works should have taken electrical precautions. Note that; precautions first! In order to prevent breakdowns, allocate time for appropriate precautions.

While disassemble the pipes and valves, make sure that no pressure presents in the system.

The surface of the solenoid valve may get heated in the running system. Take relevant precautions against the risk of injury.

So not force the valve to bend or screw. Connection cables and wires may be bent and lead to short cuts.

Make sure that required magnetic material has been placed in the internal hole of the coil prior to the operation of the equipment; otherwise the coil breaks down.

The coil should not be run in an idle mode. In other words, it should necessarily be operated together with the tube and core and while the valve is connected. Otherwise, the conductive wire inside the coil burns in a short period of time and becomes unusable.

It is strictly recommended for the temperature of the coil in the operating environment not to exceed specified limits. Otherwise the coil will be exposed to an excess external force and this will inhibit the coil from performing its functions. Recommended ambient temperature is -10 ˚C, + 80 ˚C. In order to ensure that the coils will not be affected from the excessive voltage fluctuations, it is strictly recommended to place relevant devices in the system properly.

Prior to start using our products, the labels and other information indicated on the equipment and its package should be controlled. The conformity of the equipment to be fitted before mounting with the system to be used should also be checked. The operation limits indicated in the technical specifications section should not be exceeded. It should be ensured that no flow presents in the line to which the coil will be fitted and such possibility has been prevented during the mounting process.

Mount the parts of the gas valve by means of taking into consideration the fact that they will be dismantled and maintained in the future. As the gas valve may be required to be removed from the installation for the sake of maintenance and repair works, use gland, monometer or ball valve at the inlet and outlet sections of the gas valve. Pay attention not to use a long thread connection for the line. If such thread connection is longer than required, the body of the equipment may be damaged in tightening or mounting. Perform the mounting and dismantling works by means of necessarily using a switch at the connection section.

Do not perform cutting and welding processes without filling inert gas in the gas installation used.

Make sure that the equipment has been connected to the line in a robust and tight way while examining the efficiency of the performance of the equipment. Do not get closer to the equipment with electrical and inflammable materials while the gas valve is connected to the line.

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When a gas odour is sensed, the main input valve which is situated in front of the gas valve should be shut down and the authorized service should be informed about the issue. The environment should be ventilated meanwhile.

When the gas valve is required to be removed from the line for any reason, first of all make sure that the pressure in the line is cut. Gas valves should be protected from the sun and rain.

5. USER ERRORS, FAILURES, CAUSES AND RESULTS OF THE FAILURES

- When you encounter with the following failure cases some examples of which are provided below, you should never interfere with such failure and should inform the authorized service or us.
- If the assemble lever of the equipment is unable to be adjusted despite of being pulled by hand, try to adjust it once more by means of disconnecting the valve from the electrical system; if the installation cannot be made in this mode, this means that the equipment is out of order, please make contact with our factory.
- If the equipment does not operate although you supply energy to the equipment and pulled the assemble lever, firstly check whether the electrical signal indicate to the valve or not, if the product does not function despite of the provision of signal, then the equipment or the coil is out of order. Ensure that the voltage provided to the equipment is the same as the coil voltage. If you supply 220V AC energy to a 12V DC coil, the coil breaks down and the valve cannot perform its function.
- If the flow rate is insufficient or if the valve leaks, check whether you have selected the proper item, connect the valve in the direction of the arrow and even there is no foreign particle in the line or not. If the gas valve is provided with a greater pressure than the value asserted in technical specifications chapter, the equipment may break down. High volume of dust from the line may plug the gas valve in time; in this case, the flow rate of the gas in the line reduces. Make contact with in such a situation for maintenance and repair works.
- If you are vague about any gas leakage in the line to which the valve is connected, immediately make contact with the authorized firm which has mounted the equipment to your line or with us. If the fluid flow continues when the signal is received, in other words when it is shut down, get in touch with our factory.
- If the equipment does not function, firstly check the cable connections, voltage and the pressure in the line. If the connections are made properly, the energy is provided normally up to the coil in the system, accurate voltage is supplied to the coil and the line pressure is not greater than the limits specified by the manufacturer for such coil, then the equipment is out of order. If the equipment still does not function after such controls, cut the power supply connection and make contact with our company.
- If there is a sear on the external surface of the coil or if an outward perforation is observed on the thread plastic of the coil, this means that the coil is out of order, is unusable and should be replaced. If there are outward inflations on the surface of such perforation and therefore the hole cannot be equipped with any part, this means that the coil is supplied energy before the assembly of the part which is required to be manipulated; in this case, the coil is probably out of order, unusable and should be replaced.

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15
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- If you are sure that the energy inside the line is supplied to the coil and if the coil does not energise and perform its function despite of the fact that you have supplied energy to it, this means that the coil is out of order, unusable and should be replaced.
- If greater pressure is tried to be employed than operating pressures specified by the manufacturer for such coil, the coil cannot perform its function. For proper functioning, the system pressure should be reduced to the specified pressure values.
- If the coil or makes noise while operating, it means that there is dust on the parts which should not be observed on the part that the coil is manipulating, clean such parts or dust and try to operate it once more. If the problem is not solved, make contact with us.

6. EQUIPMENT SHIPMENT

All of our gas valves are placed in special cardboard boxes in order to prevent any damage which may occur during handling or shipment. The products should neither be thrown, exposed to a load in a way to be damaged, shook due to an impact nor left on a damp ground during handling and shipment.

PRODUCING COMPANY

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WARRANTY CONDITIONS

1. If there is a fault caused by the production, the manufacturer will repair or replace the defective product in its sole discretion.
2. The warranty period is two (2) years and starts from the date of delivery of the product to consumers.
3. All products, including all sub-parts, covered by our warranty.
4. The maximum repair time is one (1) month and starts from the products' arrival date to SMS factory.
5. Within the warranty period, both in material and workmanship, as well as in case of manufacturing defects, products will be repaired without any charge under any name (labor costs, or the cost of replaced parts).
6. During the warranty period, provided that the products will be exchanged free of charge if the fault is sourced by production.
7. Damages caused by the using of the product contrary to the points listed in the operating instructions are excluded from warranty coverage.
8. If there are complaints about the product please contact customer relations manager firstly.
9. For return or repair-maintenance of products send them to the factory to the customer relations department.
10. If products come to the factory, it doesn't mean acceptance of return and received by officers. Returns accepted, with the approval of the examination will be only after the relevant department managers.
11. Consult to General Directorate of Consumer and Competition Protection of the Ministry Industry and Commerce of Turkey about the issues may arise with warranty certificate.

EXCLUSIONS OF WARRANTY (USAGE DEFECTS)

1. Malfunctions occurring after the expiration of the statutory warranty,
2. The faults caused by improper use of the product by the user, (improper using to the instruction manual),
3. Any relevant malfunctions caused by other equipment in use,
4. Changes and damages not caused by the product manufacturer; for example, the case of the opening of the product by not authorized workshops,
5. All failures depend on the system (electricity, air, etc),
6. Failures depend on the intervention of unauthorized service,
7. Products with damaged or destroyed warranty label,
8. In case of damage to outer surface of the product,
9. The faults in the caused by falling, hit, etc,
10. Faults occurred on dusty, damp, extreme heat or cold environments,
11. Faults caused by natural disasters such as flood, fire, earthquake, lightning, etc,
12. Faults caused by electrostatic discharge (ESD) damage.

www.sms-tork.com.tr

WARRANTY CERTIFICATE

Manufacturer : SMS SANAYİ MALZEMELERİ ÜRETİM VE SATIŞI A.Ş.

Adres : Head Office: Bostancı Yolu Kuru Sokak No:16 Yukarı Dudullu
34776 Ümraniye İstanbul TURKEY
Tel: +90 216 364 34 05 Fax: +90 216 364 37 57
Plant: İMES OSB. 5. Cadde No: 6 Çerkeşli OSB Mah. Dilovası Kocaeli TURKEY
Tel: +90 262 290 20 20 Fax: +90 262 290 20 21

Product : GAS VALVE

Trade Mark : TORK

Model : .....

Serial Number : .....

Delivery Place & Date : .....

Warranty Period : 2 Years

Max. Repair Time : 20 working days

Seller / Distributor : .....

Address : .....

.....

.....

.....

Manufacturer Representative
Name / Surname: Emre UZUN
Title: Quality Manager
Date: 23.12.2013
Signature:

Seller / Distrubutor Representative
Name / Surname:
Title:
Date:
Signature:

GAS VALVE USER MANUAL

S80 SERIES

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high quality

bütün dünyada...

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DOMİNİK CUMHURİYETİ
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SMS®

SMS SANAYİ MALZEMELERİ ÜRETİM VE SATIŞI A.Ş.

Merkez: Bostancı Yolu Caddesi Kuru Sk. No:16 Y. Dudullu, 34776 Ümraniye / İstanbul
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