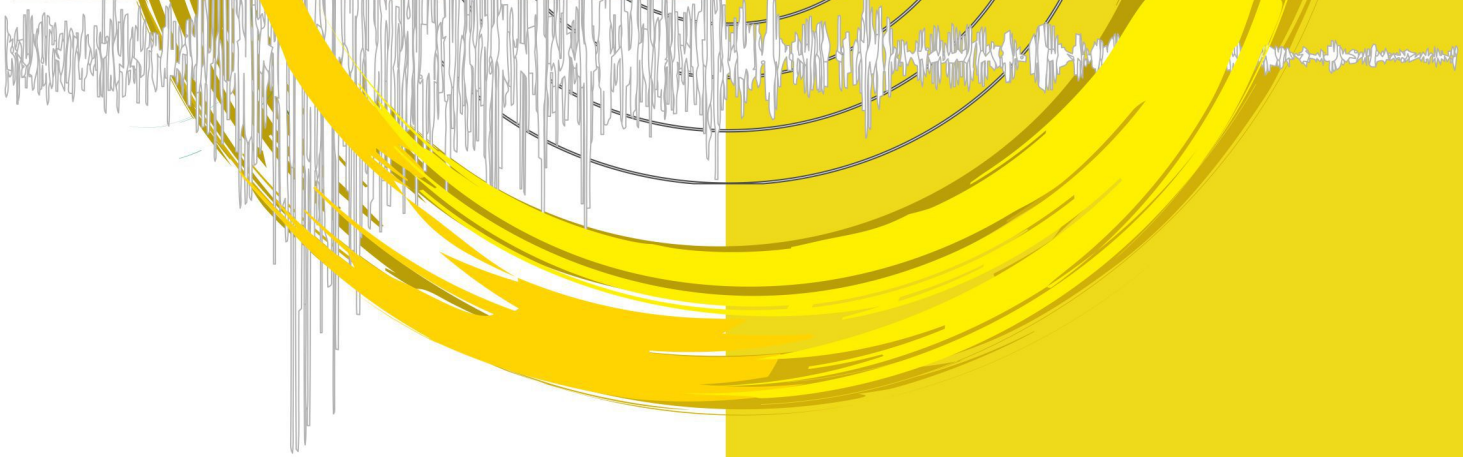
Sismik®

واردات و فروش تجهیزات گازرسانی

مورد تائید شرکت ملی نفت



TSE GAZMER TÜRKMALI MADE IN TURKEY PATENTED TSE-HYB

www.sabatam.com

Sismik®

Gas Detector

GaSis Natural Gas and LPG

TECHNICIAL SPECIFICATIONS

- **Operating voltage:** input ; 230 VAC 50Hz or 12/24 VDC
- **Output voltage:** 230VAC 50Hz or dry contact
- **Operating power (Stand by):** 2,5 W
- **Device type:** Type A
- **Calibration time:** Between 20 - 60 sn
- **Buzzer sound output:** 85 dB
- **Sensor measurement standard:** TSE EN 50194-1
- **Sensor and device life: 3 Year**
- **Alarm level:** Methane (Natural Gas) 7% LEL (± 0.4% LEL) Lower Explosion Limit.
- **Operating temperature:** -20 ° C with 50 ° C
- **Degree of protection:** IPX2D
- **Dimensions:** 68x112x38 mm
- **Weight:** 300 gr

IN FIRE

INDICATORS AND WARNINGS

- **Alarm:** Illuminated indicator and audible (Red)
- **Power working indicator:** The light indicator is lights when 220V is connected to the system. (Green)
- **Ready:** When the system first starts to work, it will light up between 30 and 60 seconds, which is equivalent to the sensor temperature.Illuminated indicator (Yellow)
- **Fault:** Illuminates when any fault occurs on the sensor. Illuminated indicator. (Yellow)
- If desired, after the installation , with the Test button, the system is tested for the purpose of checking the operability.

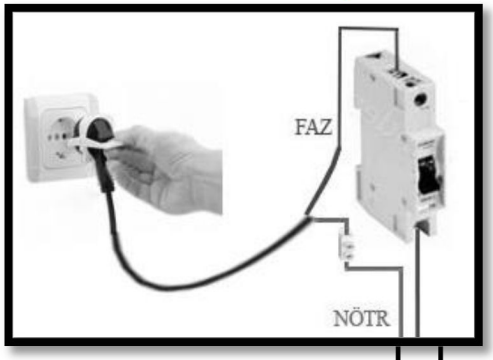
GENERAL FEATURES

- Sismik GaSis gas detection devices manufactured according to TSE EN 50194-1 Standard; It detects the poisonous and flammable gases in all kinds of residential, workplace and similar places and gives sound and light warning.
- If the gas leaks above the 7LEL (±% 0,4LEL) boundary in the environment, due to contact output; such as horn, siren, gas cut-off valve (solenoid valve) will send signal to the systems ,It allows to work.

Sismik®

Gas Detector

220 V AC 50 Hz Giriş
220 V AC 50 Hz Input

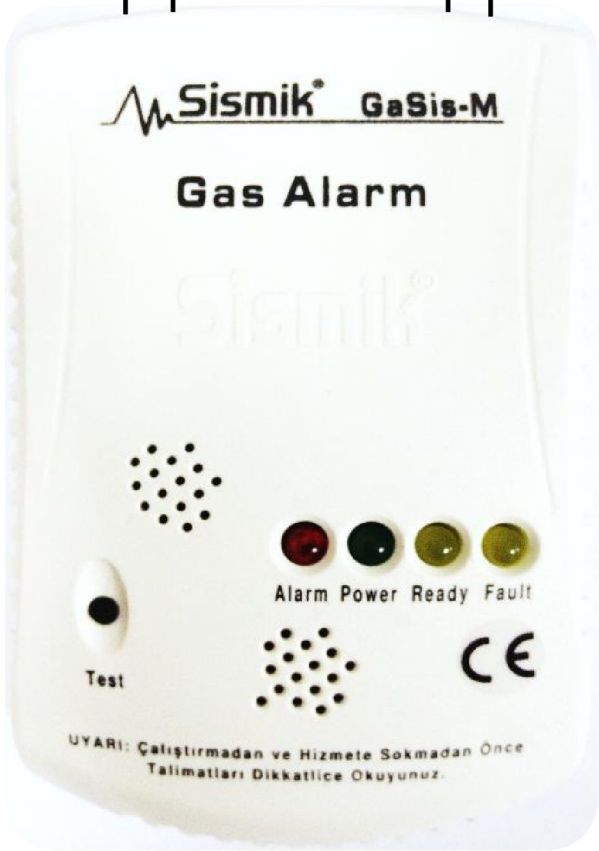


220 V AC Selenoid Vanalar
220 V AC Selenoid Valves

Çıkış
Output

Giriş
Input

Kompakt Şalterler
Molded Case Circuit Breaker



İkaz Lambaları ve Sirenler
Warning Lights and Sirens

IN FIRE

Sismik®

Siscut Sensor

SiscuT

TECHNICIAL SPECIFICATIONS

- **Operating voltage (On Mains):** Input; 170/250VAC 50Hz
- **At Stand by current pulling:** 30mA
- **Battery capacity:** 12VDC / 2.2Ah
- **Battery operating time (at stand by):** 24 hours
- **Battery withdrawal feature:** Automatic
- **Operating ambient temperature:** 0 to +51.5º C
- **S.Valve connection cable thickness, distance:** (2x0,75mm2 TTR Cable)-max.20m
- **Mounting position:** 0° horizontally
- **Battery warning voltage:** 11.85 VDC(±5%)
- **Dimensions:** 185x180x90mm
- **Weight:** 2.7 Kg

INDICATORS AND WARNINGS

- Earthquake alarm : Light indicator and sound
- Mains operation indicator: Light indicator
- Battery operation indicator: Light indicator
- Battery Broken or insufficient: Light indicator and audible. The battery test performed automatically by the device is repeated for 1 day. During this period, if the batteries cannot exceed 11,85V, it will give an audible warning once every 5 seconds and the battery led on the light indicator will flash.
- S.Valve failure or line break warning: Light indicator and audible. If there is a fault in the solenoid valve coil or there is a disconnection in the connection to the valve, the S.Valve led, one of the illuminated indicators on the cover, will flash continuously and give an audible warning once every second.
- Battery automatic charging feature.
- Alarm reset feature: Manually with the reset button.

TSE GAZMER TÜRKMALI MADE IN TURKEY PATENTED TSE-HYB

IN FIRE

GENERAL FEATURES

- Produced in accordance with TSE TS 12884 standard, Sismik Siscut automatically cuts off the natural gas by sending a 12V signal to the gas shut-off valves (solenoid valves) on the natural gas main inlet pipe of the building in the first wave of the earthquake.
- When the panel connection is made tightly and in balance, it closes in moderate and high earthquakes.
- Absolutely Truck, Dozer, Truck, Train etc. It is not affected by the operation of vehicles that can vibrate the ground, It is activated by the mass movement of the building.

IN ACCORDANCE WITH THE PROVISIONS OF THE RELEVANT ARTICLES OF THE REGULATION ON THE PROTECTION OF BUILDINGS FROM FIRE;

"In the buildings located in the 1st and 2nd Degree earthquake zones, there should be a device that cuts the gas flow and cuts the electricity of the panel when there is shake."

Sismik®

Nofire Sensor

NOFIRE

TECHNICIAL SPECIFICATIONS

- **Operating voltage (On Mains):** Input; 190/230VAC 50Hz, Output; 13,80VDC ± 3%
- **At Stand by current pulling:** 0.03 A
- **Battery capacity:** 12V 2.3Ah
- **Battery supply voltage:** 11.7VDC - 13.8VDC ± 3%
- **Battery operating time (at stand by):** 36 hours
- **S.Valve relay contact current:** 5A (max) ; 240VAC / 28VDC
- **S.Valve output current:** 1.6A
- **Dry contact output current:** 5A (max) 240VAC / 28VDC
- **External contact input current:** 5mA (max)
- **Battery withdrawal feature:** Automatic (with 60 mA load every 100 seconds) and Manual
- **S. Valve energized in case of alarm:** Max. Energizing for 4 sec.
- **Operating ambient temperature:** -10 to +51.5º C
- **S.Valve connection cable thickness, distance:** Max. 20m (1.5mmx2 TTR cable)
- **Mounting position:** 0° horizontally
- **Earthquake detection position:** 360°
- **Total height:** 180mm
- **Total width:** 215mm
- **Total depth:** 165mm
- **Weight:** 6.2 Kg

INDICATORS AND WARNINGS

- Earthquake alarm: When there is an earthquake, “Earthquake Alarm” is written on the LCD screen and gives an audible warning.
- Network electricity operation indicator: "System A/C" is written on the LCD screen.
- Battery operation indicator: "System D/C" is written on the LCD screen.
- Battery test feature: Battery test feature is done in two ways :
- Manual ; During the periodic maintenance, the cover of the device is opened and the battery test button (2nd button) inside is pressed. If the battery voltage has dropped below the threshold voltage, "Battery Charge" is displayed when the system is on the mains and "Battery Low" if the system is on the battery and gives an audible warning.
- Automatic; The device is tested every 100 seconds if it falls below the threshold voltage of 11.7VDC (±5%) with a load current of 60mA. If the battery voltage has fallen below the threshold voltage, "Battery Low" if the system is on battery, "Battery Charge" if the system is on the network and gives an audible warning.
- Battery weak or problem (insufficient): The battery test performed automatically by the device is repeated 11 times. If there is no upward trend in battery voltage during this period, the LCD screen displays "Battery Problem" and gives an audible warning.
- S.Valve failure or line break warning: If "S.V. Line broken" is written on the LCD screen and an audible warning is given (3 times in every 5 seconds), there is a problem in the Solenoid valve or a disconnection in the connection cable.
- Battery automatic charging feature: It is constantly charged while working on the network.
- Alarm reset feature : Manually. (1st button).
- Device test feature : Manually. (3rd button).

TSE GAZMER TÜRKMALI MADE IN TURKEY PATENTED TSE-HYB

GENERAL FEATURES

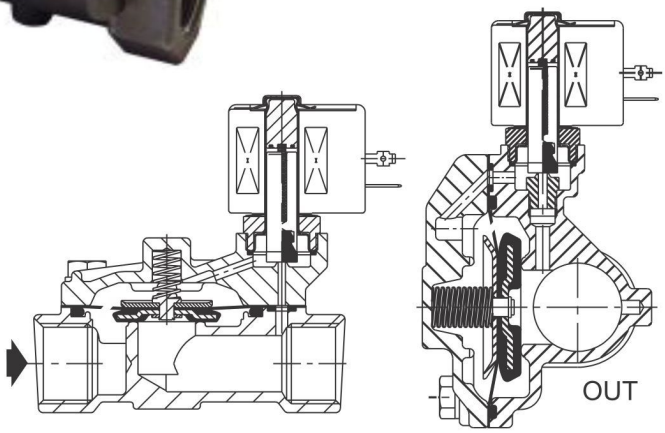
- Mechanical earthquake Sensor; It is definitely not affected by magnetic fields that may occur during an earthquake or for any reason.
- With its stainless steel ball and patented design, it can detect earthquakes for many years and sends signals.
- Thanks to the external sensor input; It has the ability to close a single Solenoid Valve (12V DC) by using it with a gas alarm device...
- Thanks to the contact output, it can cut the building electricity and guide.
- Thanks to the contact output, the elevator activates the floor completion system.
- Thanks to the contact output, the generator can be deactivated and guide.
- Thanks to the contact output, it has the ability to contact any desired circuit...
- It provides ease of use for the building manager or authorized person with its LCD display.
- It provides long-lasting security with its 100% leakproof panel manufactured in world standards.
- When the panel connection is installed tightly and in balance, it closes in moderate and high earthquakes.
- Absolutely Truck, Dozer, Truck, Train etc. It is not affected by the operation of vehicles that can vibrate the ground, It is activated by the mass movement of the building.

IN FIRE

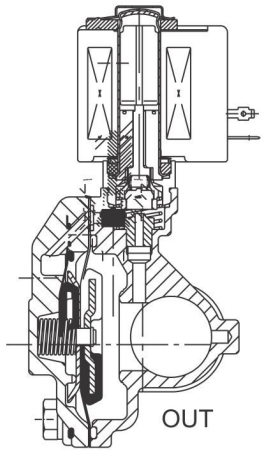
Sismik®

Solenoid Valve

IN FIRE



NC function



OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer), EPDM (ethylene-propylene) and CR (chloroprene) diaphragms, seals and discs. Use the appropriate optional suffix letter for identification
- WRAS approval - Check the online configurator for available versions
- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU (see "Explosionproof solenoids" section)
- Electrical enclosures according to "NEMA" standards are available
- Compliance with "UL", "CSA" and other local approvals available on request
- Mounting brackets for brass bodied valves, suffix MB (Except pipe size Rp 1, 1 1/4 and 1 1/2)
- For protection against corrosion caused by the environment or the fluid, contact us
- Other pipe connections are available on request
- Plug with visual indication and peak voltage suppression or with cable length of 2 m (see Solenoids, Coils & Accessories section)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation, unless indicated otherwise in the specifications table.
- Stainless steel valves are standard supplied with mounting brackets
- Pipe connection identifiers are: G = G (ISO 228/1), E = Rp (ISO 7/1) or B = NPT (ANSI 1.20.3)
- Installation/maintenance instructions are included with each valve

SPARE PARTS KIT & ACCESSORIES

catalogue number	spare parts kit no.		mounting bracket
	~	=	
SCE210C093/C094	C302272	C302372	038713-000
SCE210D095	C302276	C302375	038713-000
SCE210B154	C302283	C133800	-
SCE210B155	C302283	C133801	-
SCE210B156	C302286	C133802	-
SCE210C033/C034	C302334	C302449	038713-000
SCE210C035	C302335	C302450	038713-000
SCE210B057	C302337	-	-
SCE210B058	C302339	-	-
SCE210B059	C302340	-	-
SCG210C087/C088	C302328	C302423	038713-000
SCB210B030/B038	C302347	C302447	-
SCG210D189	C302329	C133668	-

(1) Standard prefixes/suffixes are also applicable to kits.
- Not available

ORDERING EXAMPLES:

SC	E	210 C 093		230V / 50 Hz
SC	E	210 C 094	MO	115V / 50 Hz
SC	B	210 C 087	V	24V / DC
SC	B	210 D 089		230V / 50 Hz

prefix
pipe thread
basic number
voltage
suffix

ORDERING EXAMPLES KITS:

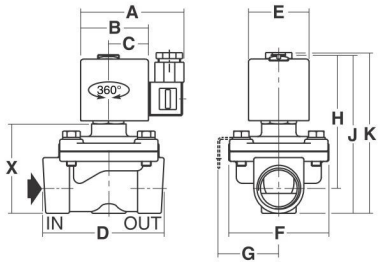
C302272(1)	
C302276	V
C302449	E

basic number — suffix

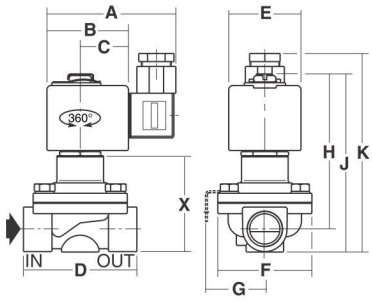
DIMENSIONS (mm), WEIGHT (kg)

TYPE 01-02
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

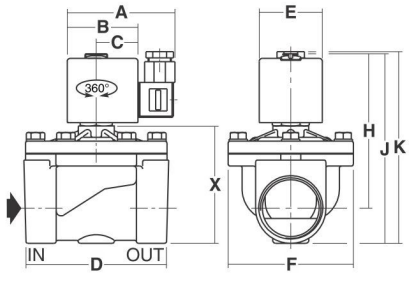
Type 01: SCE210C093/C094/D095
SCG210C087/C088
Type 02: SCE210B154/B155
SCG210D189



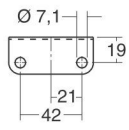
Type 01: SCE210C033/C034/C035
SCB210B030/B038
Type 02: SCB210B057/B058/B059



Type 02: SCE210B156



type	prefix option	catalogue number	A	B	C	D	E	F	G	H	J	K	X	weight (2)
01	SC	SCE210C093/C094	80	50	30	70	45	58	41	80	97	109	46	0,8
		SCE210D095	80	50	30	73	45	58	41	89	103	121	54	1,0
		SCG210C087/C088	80	50	30	71	45	61	41	87	105	122	55	1,0
		SCE210C033/C034	80	50	30	70	45	58	41	98	108	127	60	0,9
		SCE210C035	80	50	30	70	45	58	41	102	117	132	68	1,0
		SCB210B030/B038	80	50	30	71	45	59	41	100	116	133	67	1,0
02	SC	SCE210B156	86	56	33	111	50	99	-	125	153	158	96	2,8
		SCE210B154	86	56	33	95	50	83	-	112	129	137	75	2,0
		SCE210B155	86	56	33	95	50	83	-	112	143	148	86	2,0
		SCG210D189	86	56	33	95	50	99	56	113	133	132	77	2,2
		SCE210B057	86	56	33	95	50	83	-	155	172	157	98	2,0
		SCE210B058	86	56	33	95	50	83	-	161	187	187	130	2,0
		SCE210B059	86	56	33	111	50	99	-	167	194	194	137	2,5



Mounting brackets
for valves: 0,3 kg
SCE210C093/C094/D095
SCG210C087/C088/D189
SCE210C033/C034/C035

IN FIRE

Sismik®

Mechanical Earthquake Valve

IN FIRE

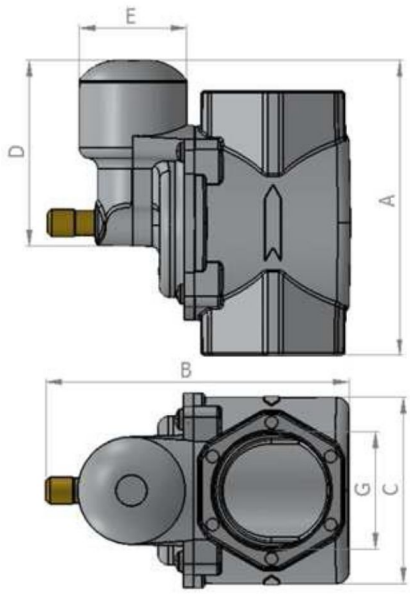
The mechanical earthquake valve that perceives the seismic activity (earthquakes), and automatically shuts off the flow of gas as a result of the perceived activities. This device has been designed to automatically shut off the gas flow due to earthquakes under TS12884 standard conditions. When the device is subjected to the momentum range of seismic vibrations given in the standard conditions, the device makes shut-off.

DEFINITION

This device has been designed to automatically shut off the gas flow due to earthquakes under TS12884 and ASCE25-06 standards conditions. When the device is subjected to the momentum range of seismic vibrations given in the standard conditions, the device makes shut-off. The factory settings are made in this way presented to the user. Don't change its settings. It must not expect to operate in different values. Device cannot be automatically installed after shut down, and does not allow gas flow. The device is reinstalled by pulling drawing handle back, and gas flow is provided.

TECHNICAL SPECIFICATIONS

*Operating Pressure: 0-500mbar
*Max. Withstand pressure: 2,5 bar
*Operating temperature: -23°C, +60°C
*Thread length: min 20mm
*Gasses: Natural gas, LPG, methane, propane, air, etc.. Gaseous fluids.
*Aluminum Body, brass and stainless steel internal parts.



DIMENSIONS

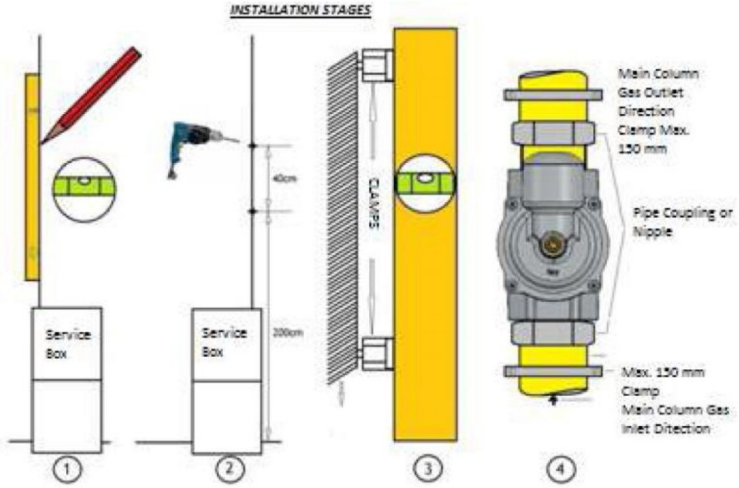
MODEL	Thread(G)	DN	A	B	C	D	E
SVF25	1"	25	145	126	80	90	52
SVF32	1 1/4"	32	145	126	80	90	52
SVF40	1 1/2"	40	145	147	90	90	52
SVF50	2"	50	145	147	90	90	52

Sismik®

Mechanical Earthquake Valve

INSTALLATION INSTRUCTIONS

· Its installation must be made by installer authorized by the gas distribution company.
· It must be established in the form that it perceives the seismic activity at the building where the device is installed, but it is not sensitive to the activities arisen from the dynamic reactions of the building or equipment.
· Please be careful to clean pipes before installation.
· For SİSVALF 25/32/40/50 models, the device must be installed at the arrow direction, in the upright form which has scales at the top.
· Please be careful when installing scales. Otherwise your device early turns off and causes undesirable gas breakdowns.



· It must be connected to the structure with 2 clamps from entrance and exit to main line. The subsequent first clamp must be attached to the device with max 1m distance. The standard application must be made in next clamps.
· The distance between clamps and pipe coupling or device must be max 150mm.
· The clamps can be out of box.
· The box installation must be made after installation of device scale.

COMMISIONING

Insert setup knob to the setup spindle of the device after its installation at the scale and in the box of device.
Wait 5 seconds by pulling. Your device is installed.
· Remove setup knob from spindle, and reversely screw it on the device body.
· In doing so, you protect the device against melting the sealing rubbers with the effect of dust, water and ozone and **extend the time of use** of the device.

REINSTALLATION-RESET INSTRUCTIONS

· Please inform competent authorities in the event device turns on in earthquake and shuts off the gas.
· The device can be reinstalled by the firms authorized by the gas distribution companies.
· The authorized persons can give approval for whether or not there is leak at the pipe line in your building and can open the gas.

***For this:* Please assist authorities in following matters.**

1. Turn off the devices connected to the natural gas in all apartments,
2. Turn off the gas valves at the apartment entrances,
3. Turn off the main column valve located before earthquake valve,
4. Note that there is no break and crack at the main column and pipe lines in internal installations.

INSTRUCTIONS FOR BOX TO BE USED

· The device must be taken inside box in a manner that the attempt of the unauthorized person is not allowed.
· The dimension of box must be bigger than the dimension of the valve.
· There must be no blockage to prevent access to the setup arm of the device inside box.
· The box must protect the device against impacts from outside, dust, water and continuous sunlight.

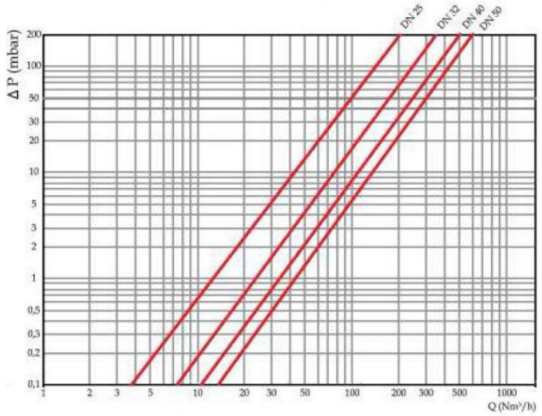
WARNING!

IN CASE OF MALFUNCTION OF THE DEVICE, IT CAN BE REMOVED FROM GAS PIPE LINE BY AUTHORIZED PERSONS. UNDER NO CIRCUMSTANCES, THE ATTEMPT IS MADE TO THE DEVICE. THE PRODUCER ASSUMES NO RESPONSIBILITY FOR MODIFICATION OF DEVICE AND RESPONSIBILITY ARISEN THERE FROM.
ANY MODIFIED DEVICE IS EXCLUDED FROM WARRANTY. THIS DEVICE MUST BE ESTABLISHED BY THE AUTHORIZED INSTALLER IN ACCORDANCE WITH PRODUCER'S ESTABLISHMENT INSTRUCTIONS. OTHERWISE, IT CANNOT OPERATE IN FORESEEABLE MANNER, OR GAS SHUT-OFF CAN OCCUR WITHOUT WARRANTY. AFTER SHUT-OFF GAS FEEDING, THE DEVICE MUST BE ADJUSTED AND COMMISIONED FOLLOWING DETERMINATION OF AUTHORIZED PERSON FOR NO GAS LEAK.

IN FIRE

Sismik®

Mechanical Earthquake Valve



Min. Capacity Values Table						
MODEL	Thread(G)	DN	Pressure loss (mbar)	ΔP (mbar)	Q (m^3/h)	Energy (kW)
SVF25	1"	25	145	126	80	90
SVF32	1 1/4"	32	145	126	80	90
SVF40	1 1/2"	40	145	147	90	90
SVF50	2"	50	145	147	90	90

IN FIRE

MAINTENANCE, REPAIR AND PERIODICAL EXAMINATION

The device is maintenance-free. No repair or attempt must be definitely made by user for any reason to the device and column line connected thereto. In case of malfunction, the authorized persons must be informed. **All repair procedures must be made by the Central service**. The malfunctioned device must be removed in place by the firms authorized by the gas distribution company, and sent to the Center service. After you are sure that there is no pressurized gas at the column line, the device must be removed by the authorized person from line for repair or replacement. Please make sure that the used gas valves are turn-off, if not, please turn off. Use proper sealing agent after repair of device and before installation to the column line. After repair, please absolutely check that there is no leakage in connections of device. In case of reinstallation of device, please make its control, if scale is not balanced, please inform authorized installer or authorized gas distribution company.

MATTERS TO BE CONSIDERED AND WARNINGS

The device must be installed by authorized installer. The installation of device must be made on whole scale. This device must be established by the authorized installer in accordance with establishment instructions of the producer. The improper established device cannot operate in foreseeable manner or might cause non-warranty gas shut-off. After device shuts off the gas feeding, only authorized person must check for whether or not there is gas leakage, and the device must be commissioned again. The operating pressure as specified in technical specifications section must not be exceeded and no overpressure must be given to the product more than maximum operating pressure. Any attempt must not be made to the device, and its repair must not be made by authorized persons. The device must not be triggered, the covers of the device must not be opened, and any items like wire, water etc. must not be inserted to the orifice of the device. Do not leave device on ground. Be careful that there is no leakage of mud, stone etc. from the ground. Avoid leakage of the sealing agents like flax, Teflon used in pipe valve connection to the device during removal-insertion procedure, or sealing chemicals must be used. Otherwise, the device cannot be operated in foreseeable manner. Device is not hazardous or dangerous against human or environmental health.

CAUSES AND RESULTS OF MALFUNCTION

There are three kinds of malfunction. Please contact with our center service in case of malfunction.

1. Malfunctions to be occurred during transportation of device from factory to end-user: our devices are offered for sales in the carton box. Please return products not inside box to the seller. Don't remove products during transportation and carrying, do not shake it with impact, do not put heavy load on it, and do not leave it at wet places. Please be check device if it has malfunction before connecting it to the column line. Hold and pull setup knob during installation. Please be sure that device is being installed, and if there is no damage in body and connections of device. In case of malfunction, send device to the center service. It is expected that the center service feeds back and gives information to the person. The service decides whether or not it is included in warranty.

2. Malfunctions related to the triggering of device: If the device is triggered by the snoopy person and is malfunctioned, its warranty becomes void. Do not insert the removed parts again. Because the parts are affixed and closed in irremovable way, you can damage its interior parts.

3. Malfunctions caused by external reasons following inserting device to the gas line: Please be sure of correctness of installation directions. In case of malfunction, please absolutely inform your authorized installer or gas distribution company, end-user must not attempt device. Insert setup knob to the spindle during installation. Pull by hand, wait 5 seconds in pulled manner, and release setup knob, if it does not set up, try setup again. Reversely screw the setup knob to the device. If setup does not occur, the product is malfunctioned. If there is gas at the column line, and it is closed or setup knob is turned off for any reason accept for seismic movements; please immediately inform the gas distribution companies. The device can be turned off as a result of impact to the column line.