

## CONTAINER VALVE RGS-MAM-12-3C

### Description

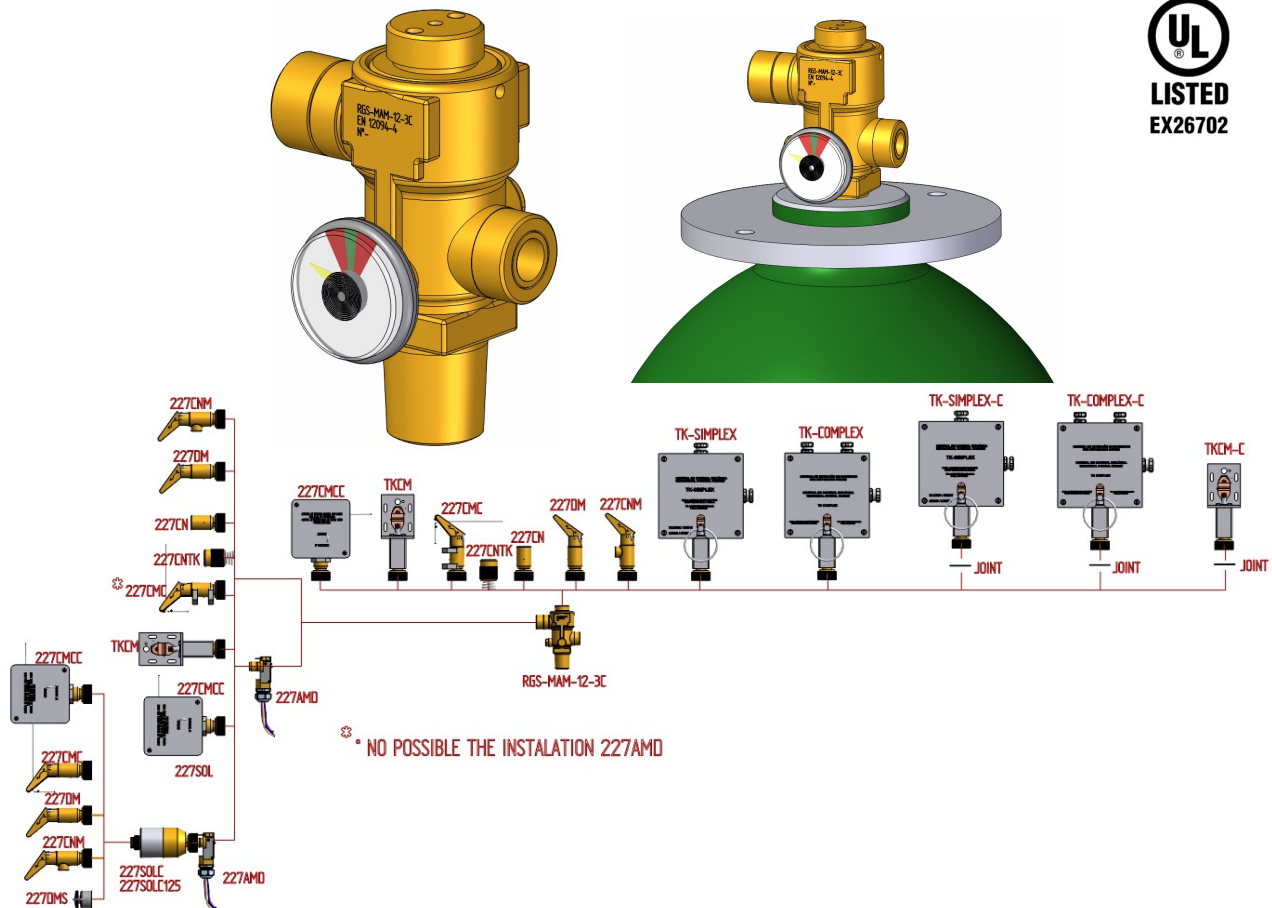
Their function is to allow the discharge of extinguishing agent from the cylinders via the various types of release mechanism. The valve, designed and manufacture for IG-55 gas containers, is the result of extensive R&D and has unique built-in safety features. The valve is factory fitted to the container. The valve is provided with a pressure gauge, pressure switch and bursting disc which meet the DOT and TPED requirements.

### Operating principles

The valve is a high flow, quick opening valve specially designed for fire protection use. It operates using a differential pressure piston mechanism. The container pressure is used with the valve to create a positive force on the piston, thus sealing the valve. The valve opens when pressure is relieved from the upper chamber and the piston move upwards, thus allowing the IG-55 gas to flow out through the pilot line. The upper chamber pressure is relieved via an actuator

Each valve includes the following elements:

- Bust disc to relieve pressure in case of needed.
- Discharge port complete with safety cap.
- Actuation port for connecting an electrical, pneumatic or mechanical discharge head complete with safety cap.
- Pneumatic connection (pilot port) for operation as a main valve in cylinder banks.
- Ports to connect the pressure gauge and/or the pressure switch.



### Technical information

<b>Container valve RGS-MAM-12-3C</b>		
Connection to pressure switch	(female thread)	1/8" NPT
Connection to pressure gauge	(female thread)	1/8" NPT
Pilot port	(female thread)	1/4" BSP
Top actuator port	(male thread)	3/4" BSP
Valve outlet thread	(male thread)	W21.8x1/14" 3/4" BSP
Thread of bursting disc cap	(female thread)	1/4" BSP
Connection to the cylinder	(male thread)	W28,8x1/14" 1"NPT
Filling pressures	psi (bar)	4350 psi (300 bar)
Approvals		UL-EX26702

### Working:

The RGS-MAM-12-3C container valves are of a high flow and quick opening and they're specially designed for its use for fire protection.

They work through a piston device by differential pressure. The cylinder pressure is used with the valve to create a positive force in the piston, sealing the closing of the valve.

The opening is made when the superior chamber is alleviated of pressure, moving the piston upwards, leaving in this way that the gas flow leaves to the outsides.

The pressure of the superior chamber frees by a manual, pneumatic, pneumatic-manual, electrical actuator or electrical pyrotechnic actuator.

Valve incorporates the following elements:

- Bursting disc to relieve pressure in case it's necessary.
- Discharge port (outlet valve), adjusted to the safety cap.
- Activation port to install a manual, pneumatic, pneumatic-manual, electrical actuator or electrical pyrotechnic actuator, adjusted to the safety cap.
- A pneumatic connection (pilot port) to work as a main valve in manifold system.
- Ports to connect the pressure gauge and/or the pressure switch.

### Safety:

User's or installers of this valve must be soured that the use and application of this product meets all the national and local standard. SIEX 2001, S.L. doesn't give any warranty for the function of any non-approved use or application. Any personnel who may use this product must be familiar with these instructions and any other product's instruction or guide.

This is a high pressure valve to be used in fixed extinguishing installations with IG-55 Gas.

The following instructions must be incorporated in every product guide or instruction. Not following any instruction or warning included in this guide or any product label may cause a serious damage to human life, materials or both of them.

### CE and $\pi$ marking:

SIEX 2001, S.L. as pressure equipment supplier for fixed extinguish systems, gets the CE marking of their equipment following the standards about pressured systems 2014/68/UE directive and  $\pi$  marking according to requirements of the Transportable Pressured Equipment Board 2010/35/CE. Both CE marking and  $\pi$  marking belong to fixed fire protection system with gaseous agent, formed by a cylinder, valve, bursting disc and valve protection elements.

The CE marking under evaluation procedure of conformity MODULO H1 of the Directive CE-PED-H1 (full recognized of quality with special design and vigilance control of final verification).The  $\pi$  marking according to the approval assessment process MODULO H1 of the Directive CE-TPED-H1D (full recognized quality with design check and supervision of the final trial check).

Any other handling (bottle, valve, bursting disc or valve protection elements) not doing by SIEX will cancel the marking.

Do not remove the (CE-0056) marking label placed on the valve, or  $\pi$  marking on the cylinder.

Obligatory performance requirements:

- Before assembly the valve to the cylinder, check the valve condition (cleanliness, thread condition), please get informed about the standards and legislation about safety applicable to valves and gas.
- Most of defects come because of dust.
- Without a written authorization from our Technical Department it is forbidden any other application.
- Do not dismantle any valve.
- Do not lubricate.
- Do not remove the valve from the cylinder while there is pressure.
- Check that different components are in good conditions and that they are compatible with IG-55 Gas, also that pressure isn't higher than the one specified in the bottle and finally, that the consume is correct.
- Necessary precautions:
  - Respect this instruction guide.
  - Customer must be soured about the components functions after assembly.
  - Customer must inform us about any incident and it's your responsibility to send back any faulty valve to our installations in order to check it.
  
- Valves must be storage in a stockroom to room temperature (not below -20° C not above 50° C) in the original bottle.
- Valves must not suffer violent damages, a distorted valve or with holes or defects cannot be used at all.
- **Do not expose the valve to a flame!**
- **Do not modify the marking.**
- **SIEX 2001 S.L. does not give any warranty** if product is used for any other use than the one has been designed for.
- Final customer must meet strictly and compulsorily the standard, the regulations and the different applicable prescriptions.
- Customer is responsible for the accident or personal material or non-material, direct or indirect damage caused by the incorrect assemble or wrong maintenance.
- If valve is equipped with a pressure gauge, this cannot be used to indicate the filling of the bottle.
- Customer must warrant the correct transport and handing of the bottle. **SIEX 2001 S.L. does not give any warranty** if product is transported or handed under the wrong conditions, or if the original cylinder is damaged or broken. Customer must inform SIEX 2001 S.L. in case of any of the above mentioned suppositions.
- Connection of any device to the outlet port of valve must be compatible with IG-55 Gas.
- Valve must not be exposed to sparks (electrical devices, etc...)
- **Do not smoke close to a pressurized valve!**
- The gas supplier is responsible of the bottle, this means free of grease or plastic / metallic particles.
- Keep the product out of reach of children.

WARNING: This type of Container valve RGS-MAM-12-3C is manufactured and approved to be used in fixed extinguishing installations with IG-55 Gas. This product is not designed for other use or purpose. If product user has any doubt regarding the application or product use, please contact +34 947 28 11 08. Every not approved use or application or / and any other not approved modification of the product or its function may cause serious accidents or / and personal damages. SIEX 2001 S.L. is not responsible for any non-approved use of the application.

IMPORTANT: SIEX 2001 S.L. reserves the right to change or modify without previous notice any data or specification due to changes or modification in order to improve the products presented.