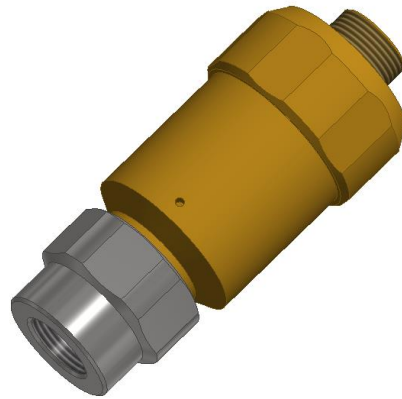


Sinorix™

## REG-F212

IG-01, IG-55, IG-100, IG-541



### Pressure regulator

- Compatible with Sinorix™ NXN 200 bar and 300 bar inert gas extinguishing systems
- For use in pressure-regulated inert gas extinguishing systems
- High flow rate

Product code: S54476-B505-A1

## Use

This product must only be used with Sinorix™ fixed automatic extinguishing systems.

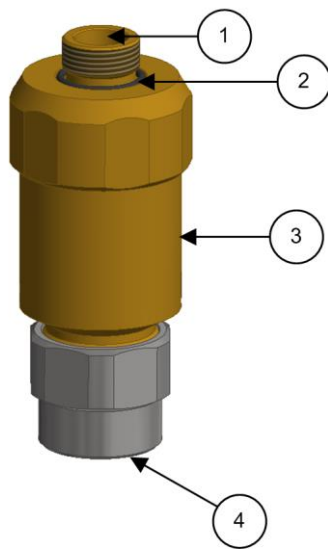
## Functions

The pressure regulator reduces the pressure and maintains it at a constant level. Pressure is limited to 60 bar, which is compatible with the use of downstream products with a nominal pressure of 63 bar.

The pressure regulator is mounted:

- at the inlet, on the check valve CAR12-360,
- at the outlet:
  - on the discharge piping, in extinguishing systems with one cylinder,
  - on the manifold, in extinguishing systems with several cylinders.

## Type summary



Item	Description	Item	Description
1	Fitting to be mounted on the outlet side (manifold, discharge piping)	2	O-ring
3	Pressure regulator body	4	Fitting to be mounted on the inlet side (CAR12-360 check valve)

## Safety

This product may only be installed by Siemens-authorized specialized installers, with experience in the design, installation and maintenance of automatic extinguishing systems. During installation, it must be ensured that:

- this product is installed in compliance with the accident prevention regulations and national regulations in force,
- this product is used as intended,
- any danger is avoided,
- Siemens requirements are met (assembly instructions, technical instructions, commissioning, and operating instructions),
- the operators have received and understood the information related to this product.

At commissioning, ensure compliance with the legislation in force, technical regulations and safety instructions.

Failure to comply with Siemens' instructions may result in serious bodily injury or significant property damage, for which Siemens cannot be held liable.

Siemens reserves the right to make technical modifications and/or improvements at any time.

### CAUTION



#### Overpressure hazard

The REG-F212 pressure regulator is not considered a safety accessory according to the European Directive on pressure equipment PED 2014/68/EU. Use of the REG-F212 pressure regulator does not supersede the installation of appropriate safety products in order to prevent components mounted downstream of the regulator from being overpressurized. These components can be in particular, but not exclusively, piping, selector valves and distribution nozzles.

## Mounting

### WARNING



#### No changes permitted

No product modifications permitted.

#### Pre-mounting:

- Check that the threads are clean and in good condition.
- Do not use a faulty pressure regulator.

### WARNING



#### Pre-mounting checks

The pressure regulator comprises two elements screwed on at the factory. Check that these two elements are firmly secured before mounting. If loose, do not use the pressure regulator.

## ⚠ WARNING

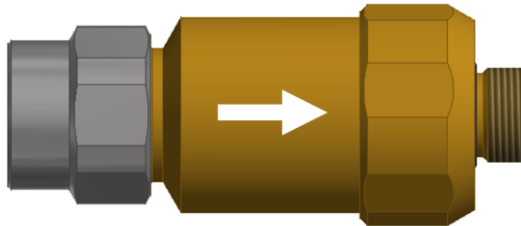


### Pressure risks

Before mounting or removing a pressure regulator, check that the discharge hose and the manifold are depressurized.

To mount the pressure regulator:

- Check that the O-ring is fitted and in good condition.
- Place the pressure regulator on the manifold so that the arrow indicating the gas flow direction points towards the manifold.



- Screw the pressure regulator onto the manifold or the discharge piping and tighten using a 60 mm open-end wrench.  
Torque: 55 Nm  $\pm$ 5 Nm
- Screw the CAR12-360 check valve to the pressure regulator and tighten using a 38 mm open-end wrench.  
Torque: 55 Nm  $\pm$ 5 Nm
- Do not tighten the pressure regulator with a torque > 60 Nm.

## Maintenance

### Storage

- Store in its original packaging, protected from shocks.
- Store in a clean and dry location, protected from bad weather.

### Inspection

- Check that the product is in good condition.
- Check that each fitting has been properly tightened using the appropriate wrench. Re-tighten if necessary.
- Check that the product is mounted in the correct direction: the arrow must point toward the manifold.



The product must be inspected as often as required by applicable local regulations. For more information, refer to the maintenance documentation.

### After an actuation

- Check that the product is in good condition.
- Check that each fitting has been properly tightened using the appropriate wrench. Re-tighten if necessary.

## Technical data

Technical data	
Flow diameter	14.5 mm
Flow cross-section	165.1 mm <sup>2</sup>
Operating pressure at 15°C	300 bar
Maximum inlet pressure at 50 °C	360 bar
Dynamic outlet pressure	< 60 bar
Static outlet pressure	60 bar (+2/-6 bar)
Thread (inlet)	Female G 3/4"
Thread (outlet)	Male G 3/4", O-ring
Gaseous agent	IG-01, IG-55, IG-100, IG-541
Materials	Brass, stainless steel, elastomer
Operating temperature	-20 °C to +50 °C, non-condensing
Transport and storage temperature	-20 °C to +65 °C, non-condensing
Weight	1.77 kg

### NOTICE



#### Regulator flow rate

Regulator flow depends on various parameters. When sizing the installation, make sure you systematically use the appropriate version of the VdS design software.

#### Marking

F2120010  
 PW max 360 bar  
 YYYY-WW (year-week)  
 VdS LPCB C-UL-US Recognized Component Mark  
 G3/4-G3/4

#### OEM type

F2120010

#### Certifications and compliances

UL/ULC	EX28412
VdS	G317012
LPCB	1239a/08
RoHS	Compliant

## Dimensions

Dimensions in mm

