

# Type SA/2 Pressure Stabilizer

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Figure 1. Type SA/2 Pressure Stabilizer

## INTRODUCTION

### Scope of Manual

This manual provides installation, maintenance, and spare parts for the Type SA/2 pressure stabilizer.

### Product Description

SA/2 is a pressure stabilizer unit equipped with a 5µ filtering degree filter and is suitable for heating.

SA/2 unit is installed on the feeding line to the PRX Series pilots.

This product has been designed to be used with fuel gases of 1st and 2nd family according to EN 437, and with other non aggressive and non fuel gases. For any other gases, other than natural gas, please contact your local sales agent.

## CHARACTERISTICS

Table 1. Technical Features

TYPE	ALLOWABLE PRESSURE PS (bar)	ALLOWABLE TEMPERATURE RANGE TS (°C)	SUPPLIED PRESSURE	BODY AND COVERS MATERIAL
SA/2	100	Class 1 -10° to 60°C	3 bar + Downstream pressure	Steel
		Class 2 -20° to 60°C		

1/4-inch NPT female threaded connections.

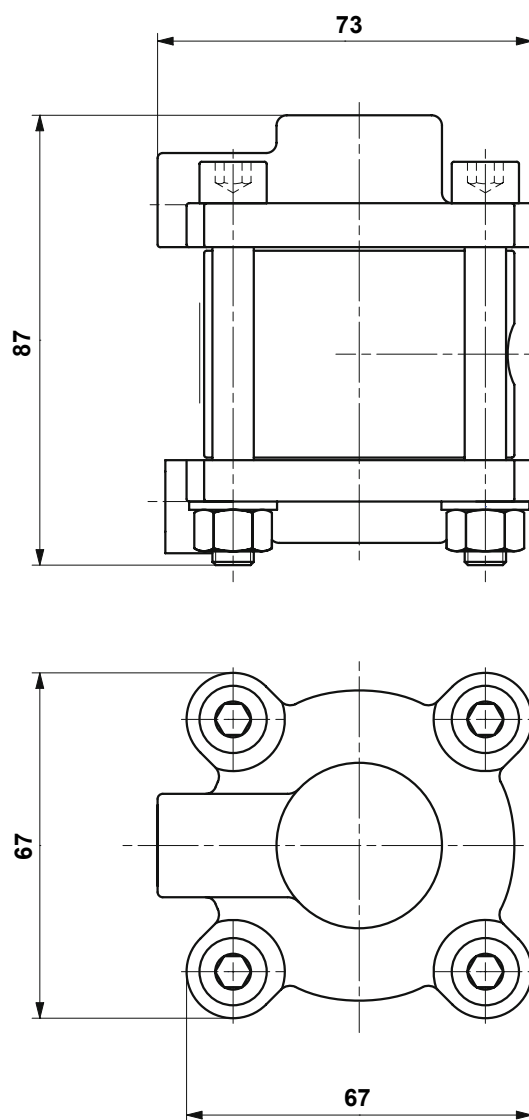
# Type SA/2

## LABELLING

 <b>TARTARINI</b> BOLOGNA ITALY	TIPO	<b>SA/2</b>
	TYPE	
PRESS. MAX ENTRATA MAX. INLET PRESSURE	Pe	<b>100 bar</b>
PRESS. DI TARATURA SET POINT	Pas	<b>3 bar</b>

Figure 2. Label for Type SA/2 Pressure Stabilizer

## DIMENSIONS AND WEIGHT



TYPE SA/2 PRESSURE STABILIZER WEIGHT: 1.5 kg

Figure 3. Type SA/2 Pressure Stabilizer Dimensions (mm)

## INSTALLATION

- a. Check that data on the pressure stabilizer plate are compatible with actual working conditions.
- b. Install in accordance with pilot instruction manual.

## PERIODIC CHECKS

Slowly close the outlet slam-shut and check line pressure between it and regulator. A slight increase in pressure should be detected: this results from overload due to closing, and is followed by pressure stabilization. If, however, outlet pressure continues to rise, then seal is defective. Check if leak is coming from regulator, pilot or pressure stabilizer and service.

## SEP STATEMENT

Emerson Process declares this product conforms to Pressure Equipment Directive (PED) 97/23/EC.

Article 3 section 3 and was designed and manufactured in accordance with sound engineering practice (SEP).

Per Article 3 section 3, this "SEP" product must not bear the CE marking.

## ATEX REQUIREMENTS

### WARNING

**If the provisions of EN 12186 & EN 12279, national regulations, if any, and specific manufacturer recommendations are not put into practice before installation and if purge by inert gas is not carried out before equipment's start-up and shut-down operations, a potential external and internal explosive atmosphere can be present in equipment & gas pressure regulating/measuring stations/installations.**

If a presence of foreign material in the pipelines is foreseen and purge by inert gas is not carried out, the following procedure is recommended to avoid any possible external ignition source inside the equipment due to mechanical generated sparks:

- drainage to safe area via drain lines of foreign materials, if any, by inflow of fuel gas with low velocity in the pipe-work (5m/sec)

In any case,

- provisions of Directive 1999/92/EC and 89/655/EC shall be enforced by gas pressure regulating/measuring station/

installation's end user

- with a view to preventing and providing protection against explosions, technical and/or organizational measures appropriate to the nature of the operation shall be taken (e.g.: filling/exhausting of fuel gas of internal volume of the isolated part/entire installation with vent lines to safe area - 7.5.2 of EN 12186 & 7.4 of EN 12279; monitoring of settings with further exhaust of fuel gas to safe area; connection of isolated part/entire installation to downstream pipeline; ....)
- provision in 9.3 of EN 12186 & 12279 shall be enforced by pressure regulating/measuring station/installation's end user
- external tightness test shall be carried out after each reassembly at installation site using testing pressure in accordance with national rules
- periodical check/maintenance for surveillance shall be carried out complying with national regulations, if any, and specific manufacturer recommendations.

## MAINTENANCE

### CAUTION

**Servicing should be carried out by qualified, skilled personnel only. For further information, please contact our Technical Support Representatives or our authorized dealers.**

Before servicing, cut off regulator inlet and outlet and release any trapped pressurized gas.

Use suds to check that there are no leaks.

### Replacing Filter

- a. Remove screws (key 2), cover (key 11); replace felt (key 12) and O-ring (key 13). Reassemble in reverse order the above sequence.

### Replacing Stabilizer Diaphragm and Seal Pad

- a. Remove cover (key 19); spring (key 1) and diaphragm assembly (key 21, 20, 3, 4, 18, and 17). Replace diaphragm if necessary.
- b. Unscrew seat (key 5), replace pad holder (key 15) and O-ring (key 6).
- c. Reassemble in reverse order the above sequence.

# Type SA/2

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## PARTS LISTS

### Type SA/2 Stabilizer Filter

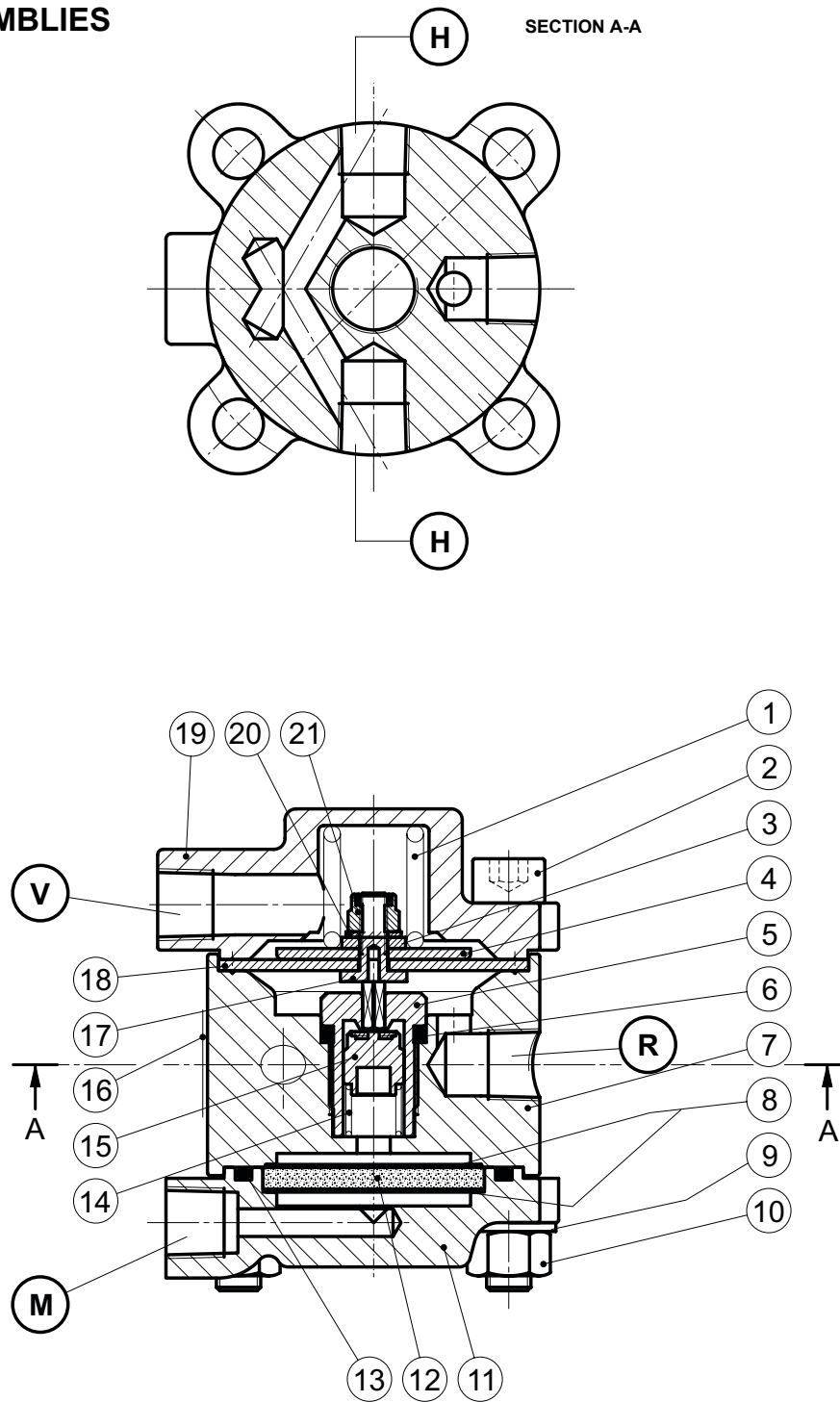
Item	Description
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1	Spring
2	Screw
3	Washer
4	Plate
5	Seat
6*	O-ring
7	Body
8	Net
9	Washer
10	Nut
11	Filter cover
12*	Felt
13*	O-ring
14	Spring
15	Pad holder unit
16	Data plate
17	Screw plate unit
18*	Diaphragm
19	Upper cover
20	Washer
21	Nut

Rubber parts marked with (\*) are supplied in the "spare parts kit", recommended as stock.

To order the kit it is necessary to communicate to us the pressure stabilizer serial number.

## SCHEMATIC ASSEMBLIES



Type SA/2 Pressure Stabilizer Connections

CODE	CONNECTIONS
H	Water inlet/outlet
M	Upstream of the regulator
R	To the pilot feed
V	Downstream of the regulator

LM/1162

Figure 4. Type SA/2 Pressure Stabilizer Assembly





# Type SA/2

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