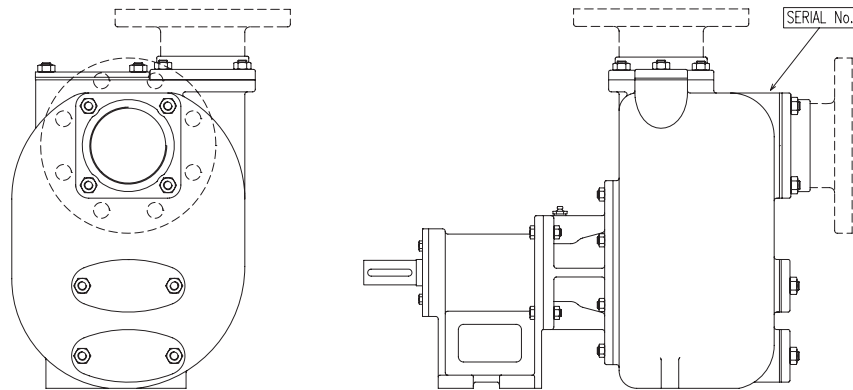


OPERATING INSTRUCTIONS FOR ATEX



S – Self-priming centrifugal pumps

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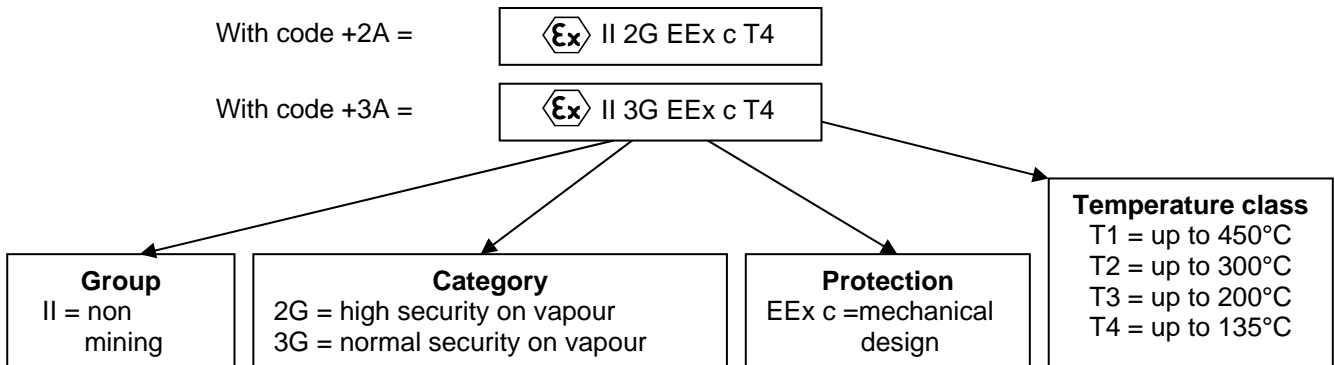
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OPERATING INSTRUCTIONS FOR ATEX

A. ATEX - INFORMATION

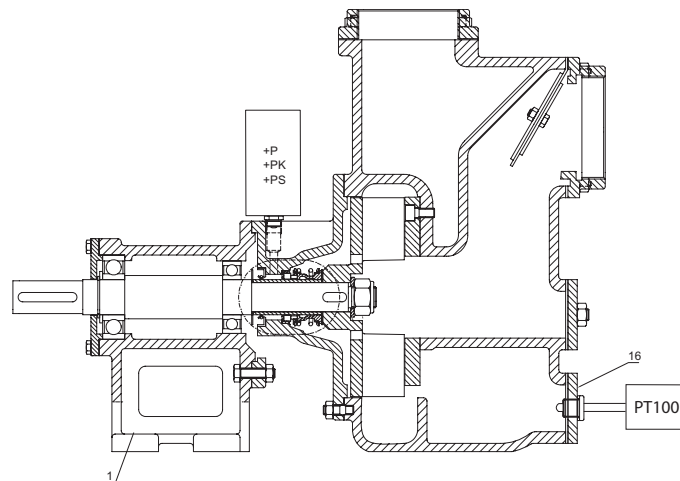
1. MARKING

1.1. The **S** self-priming centrifugal pumps are marked as follow:



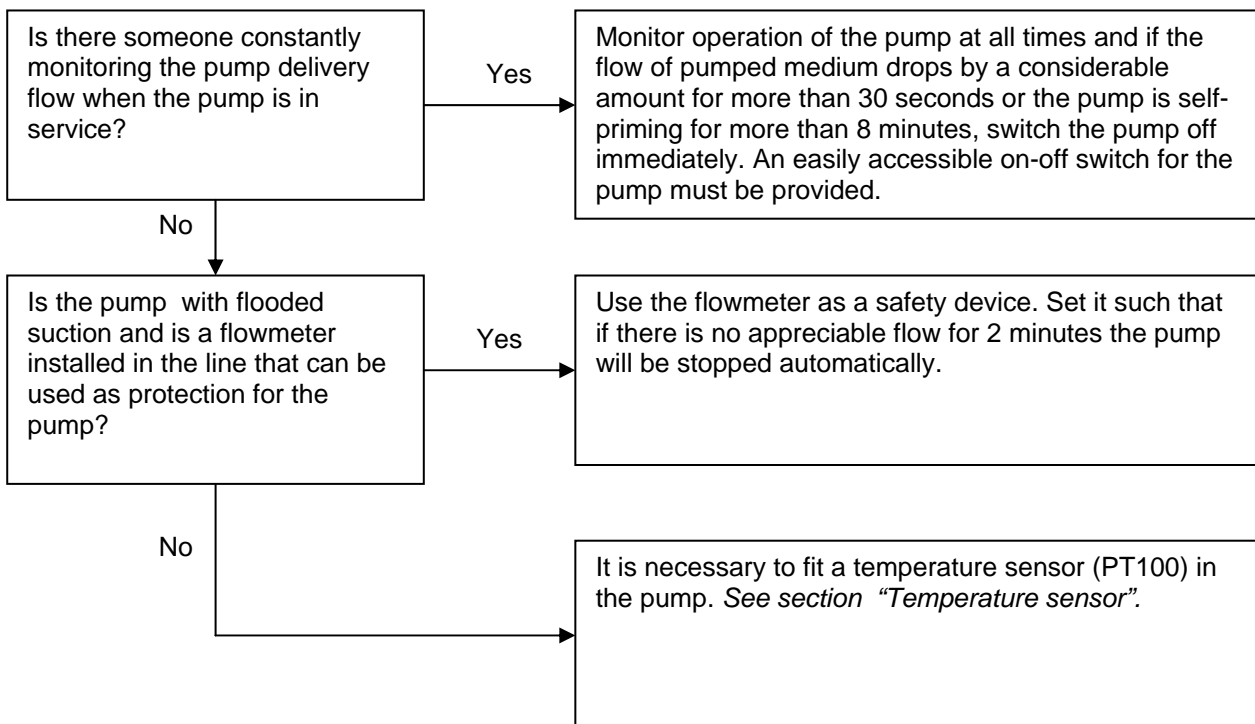
2. CHECKLIST

- 2.1. After start-up the pump will need to be checked at the following intervals to make sure it is pumping properly and with regard to pump noise: 10 min. / 1 hour / 10 hours / 1 day / 1 week / 1 month. Inspection may take place thereafter at monthly intervals provided the conditions of use do not change.
- 2.2. The ball bearing must be checked for noise or wear on a monthly basis and replaced punctually as otherwise a risk of explosion could arise due to an excessively high bearing temperature.
- 2.3. The pump has a mechanical seal that can leak. If the pumped liquid is inflammable in the outside of the pump you have to declare a zone 1 (Category 2).
- 2.4. In the case of mechanical seals type .31., .38. and .14. the automatic lubricator (+P, +PK, +PS) for the mechanical seal must be present and activated. The cartridge must be replaced every year.



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- 2.5. The pump has to be earthed. To connect the pump to earth use one of the 4 screws on the pedestal that fixes the base plate. To allow metal contact, take in the contact point the paint from the surface away (Pos. 1).
- 2.6. There is a danger of electrostatic charging if the paint on the unit has a coating thickness of more than 0.2 mm.
- 2.7. With solids in the liquid the pump can block. It is therefore necessary to mount for the electric motor an automatic switch (PTC if used with inverter).
- 2.8. Use the pump only in the authorized performances levels indicated in performance curve, technical datasheet and instructions! The liquid should never be pumped on the limit of vaporisation, crystallisation, polymerisation or solidification. If the pump has to be used in a different duty not indicated in the request form or in the technical datasheet of the pump, please check the use and ask for authorisation of use from the manufacturer.
- 2.9. The operating temperature of the pump must not exceed 90°C with mechanical seal type .31., .38. and .14. or 75°C with mechanical seal type .30. or .35. If a pumped medium is capable of reaching this temperature, it is not permitted to put the pump into service. A temperature sensor can be used for checking.
- 2.10. It is not permitted to start the pump with closed suction and/or discharge line. The user should take efforts to avoid this situation.
- 2.11. Measures such as are listed below should be taken against dry running or against blocked lines:



OPERATING INSTRUCTIONS FOR ATEX

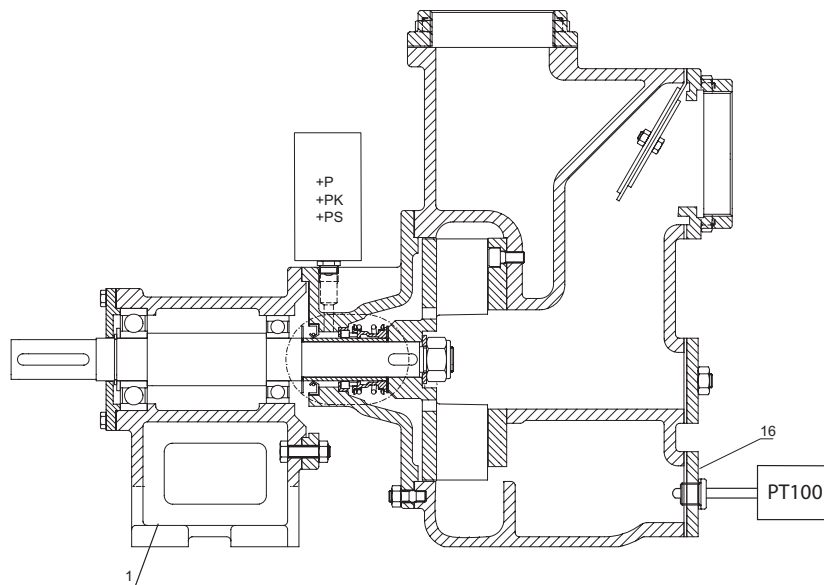
B. TEMPERATURE SENSOR

1. INTRODUCTION

- 1.1. In the pumps prepared for temperature sensor a ¼" threaded port is present in the drain cover or plug of the pump for a PT100 (Pos. 16).
- 1.2. The sensor monitors temperature changes in the pumped medium. This means that a closed pressure line or abnormal wear in the pump can be monitored by means of a temperature increase. When the limit temperature is exceeded, the sensor trips to shut off power to the pump drive and the pump stops.
- 1.3. The shut off device and associated wiring are not included in the scope of supply of the pump. The pump owner is required to have this installed himself by a suitably qualified technician.

2. INSTALLATION OF THE SENSOR INTO THE PUMP

- 2.1. The ¼" threaded port for the temperature sensor (PT100) is in the drain cover or plug (Pos.16).



- 2.2. Unscrew the tap and screw the temperature sensor (PT100) provided for this purpose.
- 2.3. Victor Pumps delivers the temperature sensor with integrated transmitter. The transmitter is regulated as follows:

Temperature range	OUT-Signal	Current
0-150 °C	4 - 20 mA, linear	8 - 30 VDC



- 2.4. Connect up the transmitter to an reading unit on the control pannel (not included) with an ATEX 2-Wire cable. The sensor's tripping value must be set 10°C above the pumping temperature, but not more than 90°C with mechanical seals type .31., .38., .14. and 75°C with mechanical seals type .30.,.35.,.39.. Other temperature settings can be allowed separately.

OPERATING INSTRUCTIONS FOR ATEX

C. MANUFACTURER'S DECLARATION

Pumps **without** a drive unit

We hereby declare that the self-priming centrifugal pumps of the **S** series comply with the following relevant requirements:

- EC Machinery Directive 98/37/EC, Appendix I, no. 1
- EC Explosion Protection Directive 94/9/EC
 - pumps with code +2A 
 - pumps with code +3A 

and are intended to be installed in or connected to other machines. It is forbidden to start up the machine in which the pump is installed if the machine has not been declared as conforming with the above-named EC Directives.

The following standards have been found helpful and have been used in their entirety or in part:

- EN 809 :1998
- EN 292-1 :1991
- EN 292-2 :1991+A1:1995
- EN 13463-1 :2001
- prEN 13463-5 :2000

The technical documents has been stored by TÜV NORD CERT (No.0032) with order No. 8000317581.

Date 01.11.2004

Victor Pumps srl





Vittorio Varisco
CEO

OPERATING INSTRUCTIONS FOR ATEX

D. DECLARATION OF CONFORMITY

Pumps with a drive unit

We hereby declare that the self-priming centrifugal pumps of the **S** series comply with the following relevant requirements:

- EC Machinery Directive 98/37/EC, Appendix I, no. 1
- EC Explosion Protection Directive 94/9/EC
 - pumps with code +2A  II 2G Eex c T4
 - pumps with code +3A  II 3G Eex c T4

The following standards have been found helpful and have been used in their entirety or in part:

- EN 809 :1998
- EN 292-1 :1991
- EN 292-2 :1991+A1:1995
- EN 13463-1 :2001
- prEN 13463-5 :2000

If any modification is made to the unit and/or it is not used for the purpose intended this will render null and void the validity of this declaration of conformity.

The technical documents has been stored by TÜV NORD CERT (No.0032) with order No. 8000317581.

Date 01.11.2004

Victor Pumps srl



Vittorio Varisco
CEO