

## 4 Safe operating conditions

This manual contains main safety instructions for the installation, operation and maintenance. It must be read by the personnel who are responsible for installation and operation. This manual should always be kept near the installation location. It is important to comply with safety precautions stated in page 1 along with the general safety instructions as well as preventive measures repeated in other sections of this manual.

### 4.1 Training of personnel

Installation, operation and maintenance personnel must have necessary knowledge in order to accomplish the given job. The responsibility, adequacies and controlling duties of such personnel must be determined by the customer. It has to be certain that these personnel comprehend totally the content of the operating manual.

If the personnel do not have enough knowledge, required training must be given by the customer. If training support is needed by the customer, it will be provided by the manufacturer/seller.



#### **CAUTION**

**Untrained personnel and unwillingness to comply with safety instructions may be risky for both machine and environment. DP-Pumps is not responsible for this kind of damages.**

### 4.2 Hazardous conditions that may occur when one does not comply with the safety instructions

Incompliance with safety regulations may put the personnel, the environment and the machine in danger and thus may cause damages. Incompliance with safety regulations may give rise to situations listed below:

**Important operational functions of the factory may stop.  
Maintenance may get difficult.  
One may get injured by electrical, mechanical or chemical hazards.**

### 4.3 Safety measures for operator

Dangerous, hot or cold components in the pump area must be covered so that one cannot touch them.

Moving components of the pump (such as rigid coupling) must be covered so that one cannot touch them. Those covers must not be dismantled while the pump is running. Dangers that results from electrical connections must be removed. To get more information about this subject, we refer to VDE and domestic electrical instructions.

### 4.4 Safety measures for maintenance and installation

The customer must assure that all maintenance, check and instalment tasks are performed by qualified personnel. Repair work must only be performed while the machine is not running. The pump and its auxiliary system must be cleaned thoroughly if it contains hazardous liquids. At the end of the repair work, all safety and protective equipment must be re-installed.

### 4.5 Spare parts replacement

Replacement of spare parts and all modifications must be done after contacting with the manufacturer. Spare parts and accessories certified by the manufacturer are important for the safe operation of the system.

**Notice:** DP-Pumps is not responsible for using improper spare parts.

**Reading: Chapter 1**

**Exercise 1:**

Try to fully understand the text. Check the meaning of words that are not familiar to you. Write these words and their meaning in the grid.



**Exercise 2:**

The manufacturer use the caution sign to emphasize what?



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**Exercise 3:**

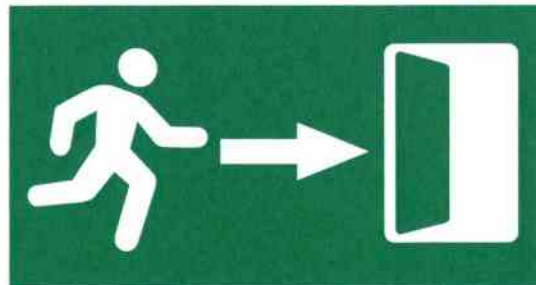
Which of below signs can be relevant when you are going to dismantle this pump?



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**Exercise 4:**

Make questions for the following paragraphs (interrogative pronouns).

Introduction: use where and what.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

4.1 Training of personnel: use who.

3. \_\_\_\_\_  
\_\_\_\_\_

4.3 Safety measures for operator: use how.

4. \_\_\_\_\_  
\_\_\_\_\_

4.4 Safety measures for maintenance and installation: use when.

5. \_\_\_\_\_  
\_\_\_\_\_

**Exercise 5:**

In the introduction they use a relative pronoun. Which relative pronoun do they use and it refers to?

Paragraph "4.2 Hazardous conditions.....safety instructions" they use a relative pronoun. Which relative pronoun do they use and it refers to?

**Exercise 6:**

Circle the demonstrative pronouns in the text (7).

**Exercise 7:**

Use the correct comparisons for below words.

Hot		
Important		
Dangerous		
Cold		
Clean		
Safe		

**Exercise 1:**

Try to fully understand the text. Check the meaning of words that are not familiar to you. Write these words and their meaning in the grid.

Contains	Bevat – Houd in
Precautions	Voorzorgmaatregel
Preventive	Voorkomend – Preventief
Measures	Maatregel
Accomplish	Volbrengen
Adequacies	Adequaat - Geschikt
Comprehend	Begrijpen
Unwillingness	Onwilligheid

Incompliance	Onvolgzaamheid – Ongehoorzaamheid
Components	Onderdelen
Rigid Coupling	Stijve koppeling
Dismounted	Demonteren
Domestic	Huishoudelijke
Instalment	Installeren
Auxiliary	Hulp

Modifications	Wijzigingen - Aanpassingen
Spare parts	Reserveonderdelen
Improper	Verkeerde

**Exercise 2:**

The manufacturer use the caution sign to emphasize what?



Niet getrainde personeel en onwilligheid om de veiligheidsinstructies te volgen kan gevolgen hebben voor zowel de machine als voor het milieu. DP-Pumps is niet verantwoordelijk voor dit soort schade.

**Exercise 3:**

Which of below signs can be relevant when you are going to dismantle this pump?



Yes



Yes



No

**Exercise 4:**

Make questions for the following paragraphs (interrogative pronouns).

Introduction: use where and what.

1. Where do you keep this manual? Where can you find this manual?
2. What does this manual contain? What is important? What is important to comply with?

4.1 Training of personnel: use who.

3. Who can determine the responsibility, adequacies and controlling duties of such personnel? Who can provides training to the costumer? Who has to have the necessary knowledge in order to accomplish the given job?

4.3 Safety measures for operator: use how.

4. How can you get more information about this subject?

4.4 Safety measures for maintenance and installation: use when and why.

5. When can you perform repair work? When do you re-install all safety and protective equipment?

**Exercise 5:**

In the introduction they use a relative pronoun. Which relative pronoun do they use and it refers to?

Who, the personnel.

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Paragrapph "4.2 Hazardous conditions.....safety instructions" they use a relative pronoun. Which relative pronoun do they use and it refers to?

That, hazardous conditions

**Exercise 6:**

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Circle the demonstrative pronouns in the text (7).

This (Introduction: 1, 5, 9 – 4.1: caution – 4.3: 9)

These(4.1: 6)

Those (4.3: 6)

**Exercise 7:**

Use the correct comparisons for below words.

Hot	Hotter	Hottest
Important	More important	Most important
Dangerous	More dangerous	Most dangerous
Cold	Colder	Coldest
Clean	Cleaner	Cleanest
Safe	Safer	Safest