

INSTRUCTION MANUAL





Series e-82 Packing Seal Instructions



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1 Introduction and Safety

1.1 Introduction

Purpose of this manual

The purpose of this manual is to serve as an IOM addendum for operation and installation of packing in e-82 series twin inline pumps.

For the e-82 twin inline pump installation, operation, and maintenance use P2004729 Series e-82 Instruction Manual.



CAUTION:

Read this manual carefully before installing and using the product. Improper use of the product can cause personal injury and damage to property, and may void the warranty.

NOTICE:

Save this manual for future reference, and keep it readily available at the location of the unit.

1.2 Safety



WARNING:

- The operator must be aware of safety precautions to prevent physical injury.
- All safety precautions and instructions must be followed as outlined in the Series e-82 Instruction Manual, P2004729.



CAUTION:

You must observe the instructions contained in this and the Series e-82 Instruction Manual, P2004729. Failure to do so could result in physical injury, damage, or delays.

2 Product Description

2.1 Operation specifications

See P2004729, Series e-82 Instruction Manual Section 3.1 for more information.

Use packing on open or closed systems which require a large amount of makeup water, as well as systems that are subject to a wide variety of chemical conditions and solids buildups.

Parameter	Packing
Operating temperature range, F° (C°)	0 to 200 (-18 to 93)
pH range limits	7.0 to 9.0
Resistance to dissolved solids	Medium
Maximum glycol/water concentration	Not recommended

3 Operation

3.1 Note on the packed pump operation

See P2004729, Series e-82 Instruction Manual Chapter 5 for more information.

Tighten the gland nuts

Before you start the pump, back off the packing gland nuts or screws until the gland is loose. Hand tighten until the gland is snug against the first packing ring. Initially, water might freely run from the packing. This is normal and should be allowed to continue for a period of time before you continue to tighten the gland. Tighten the gland nuts slowly and one flat at a time.

Leakage rate

An adequate leakage rate is not one single value for all pumps and installations, but is the amount required to provide adequate cooling and lubrication. The required leakage is influenced by operating pressure, fluid temperature, shaft speed, and so forth. For fluid temperatures in the range of 32°F to 190°F (0°C to 88°C), average leakage rates of 60 to 80 drops per minute are recommended. However, each individual pump and installation has unique operating conditions that result in widely-variable leakage rate requirements.

Maximum fluid temperature

At fluid operating temperatures near the upper limit of 190°F (88°C), the maximum temperature rise of the leakage is important. Never operate a packed pump with steam forming at the gland. This limits the temperature rise to a maximum of about 20°F (-7°C). If the formation of steam persists at higher leakage rates, you must provide cooling water by means of an external supply, or a heat exchanger used to cool the bypass flush.

4 Maintenance

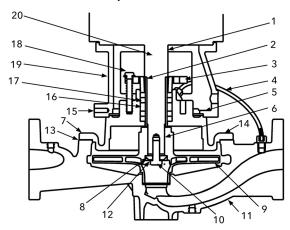
4.1 Remove the seal or packing rings

This information replaces P2004729, Series e-82 Instruction Manual Section 6.4.5.

- 1. Remove the hex nuts from the seal cap bolts.
- 2. For the 80-PF, remove the hex nuts that hold the packing gland to the stuffing box.
- 3. Remove the cover plate screws.
- 4. Remove the cover plate from the bracket.
- 5. Remove the seal assembly or packing rings.

4.2 Assemble the packed stuffing box

This information replaces P2004729, Series e-82 Instruction Manual Section 6.6.1.



- Slinger Shaft sleeve
- Shaft sleeve
 Packing gland
 Flush line
- Coverplate capscrew
- Impeller key Volute capscrew
- Impeller washer
- Impeller
- 10. Impeller capscrew
- 11. Volute
- 12. Impeller lockwasher
- 13. Volute gasket
- 14. Coverplate
- 15. Drip drain
- 16. Lantern ring
- 17. Packing
- 18. Gland bolt
- 19. Bracket
- 20. Shaft

Figure 1: Packed stuffing box

- 1. Insert two packing rings into the stuffing box.
- 2. Insert the lantern ring and the last two pieces of packing. Make sure that the joints on the packing rings are staggered 90°.
- 3. Install, but do not tighten, the packing gland.
- 4. Install the cover plate over the pump shaft.
- 5. Tighten the capscrews according to the Capscrew torque table in the P2004729, Series e-82 Instruction Manual Chapter 6: Maintenance.
- 6. Tighten the packing gland to compress the packing.

See the note on the packed pump operation in the Operation chapter for more information.

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- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com



Xylem Inc. 8200 N. Austin Avenue Morton Grove IL 60053 Tel: (847) 966–3700 Fax: (847) 965–8379 www.xylem.com/bellgossett Visit our Web site for the latest version of this document and more information

The original instruction is in English. All non-English instructions are translations of the original instruction.

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