Seal Water Control and Monitoring System

Safeunit™

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SAFEMATIC®

Safematic Safeunit™

Complete monitoring and control solution for seals and seal water systems

Installing the Safeunit™ seal water system will ensure trouble free operation of process machinery in all conditions and achieve the maximum life cycle profit of your investment.

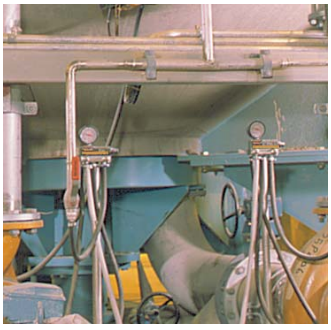
Adjusting the seal water flow and pressure with Safeunit™ will create the best possible operating environment for seals and maximise the runnability of the process.

Save Seal Water

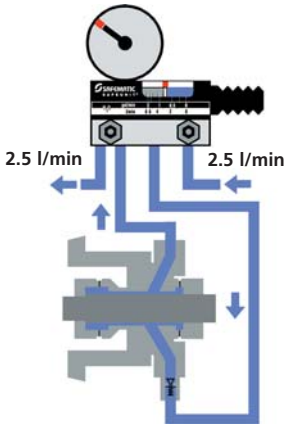
2 drops/second = 14 m^3 / year

Safeunit™ seal water system dramatically reduces water consumption by up to 80%. This means a considerable drop in waste water load.

For example, with the water price of US $0.50/m3, the annual savings in a mill with 300 pumps is US $300,000 (flow reduction 4 l/min/pump).

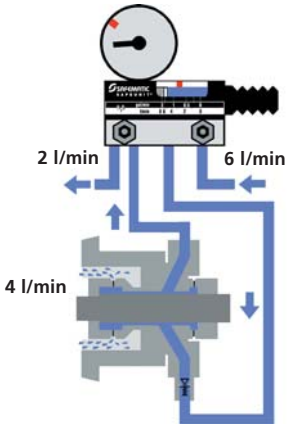


Normal operation



Changes in the pre-set system values for flow and pressure will indicate any possible problems in seals and system well in advance. For automatic control, alarm sensors can be used.

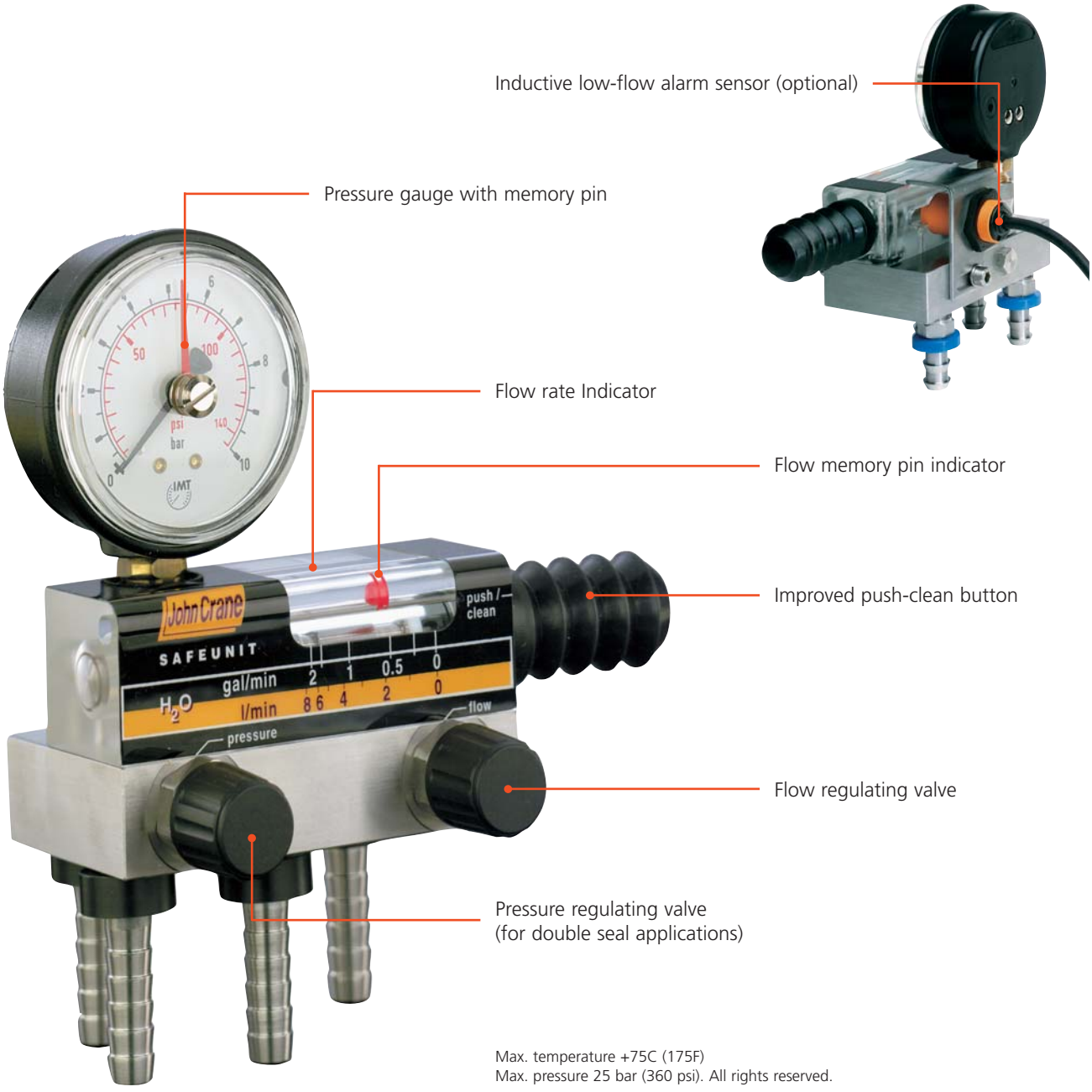
Flow increases and pressure decreases



Safeunit system also detects seal water leakage in the process resulting in extra heating and evaporation costs or expensive quality problems such as dilution.

User friendly, compact unit

- Controls and monitors seal water flow and pressure
- Predicts seal and packing failures
- Reduces and pre-determines maximum seal water consumption
- Can be cleaned with equipment running. Alarm will not go off with the new improved push-clean button
- Simplifies pump setup and service
- Detects and locates seal water line problems
- Flow indicator and pressure gauge with memory pin
- Unique non-clog valves
- Available with optional electrical alarms and LCS-leakage control system



Max. temperature +75C (175F)
Max. pressure 25 bar (360 psi). All rights reserved.

Mechanical Sealing Systems

Safeunit™ order form

Safeunit™ type:
☐ Type SFP
☐ Type SFQ
☐ Type SFD

Flow:
☐ 3 l/min (0,75 GPM)
☐ 8 l/min (2 GPM)
☐ 15 l/min (4 GPM)

Pressure area:
☐ 10 bar (150 psi)
☐ 25 bar (360 psi)

Complete hose assembly:
☐ Yes

Seal connections:
☐ NPT ☐ 1/8 ☐ 1/4 ☐ 3/8
☐ R ☐ 1/2 ☐ Other

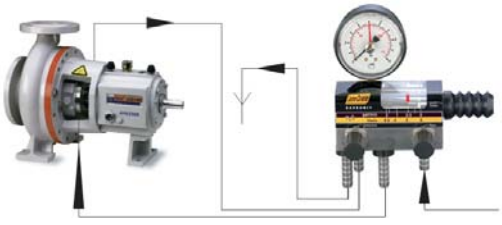
Documentation:
☐ English
☐ German
☐ Swedish
☐ Other _____

Mounting:
☐ Bracket ☐ Stand

Packing or single Seal Flush — Type SFP

Quench Seal — Type SFQ

Double Mechanical Seal — Type SFD



Alarm:
☐ AC-1 (20-250 VAC/DC)
☐ DC-1 (10-36 VDC)

For your nearest John Crane facility, please contact one of the locations below.

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