



SAFEMATIC™ Seal Water Control and Monitoring System
Safeunit

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

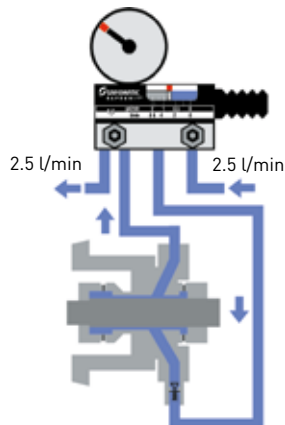
2 drops/second = 14 m³ / year

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

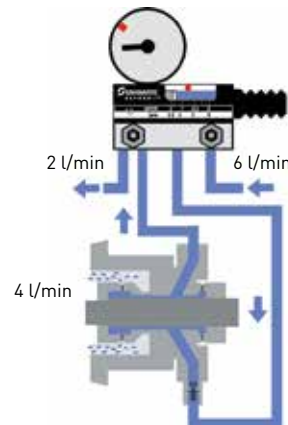
For example, with the water price of US \$0.50/m³, the annual savings in a mill with 300 pumps is US \$300,000 (flow reduction 4 l/min/pump).



Normal operation



Flow increases and pressure decreases



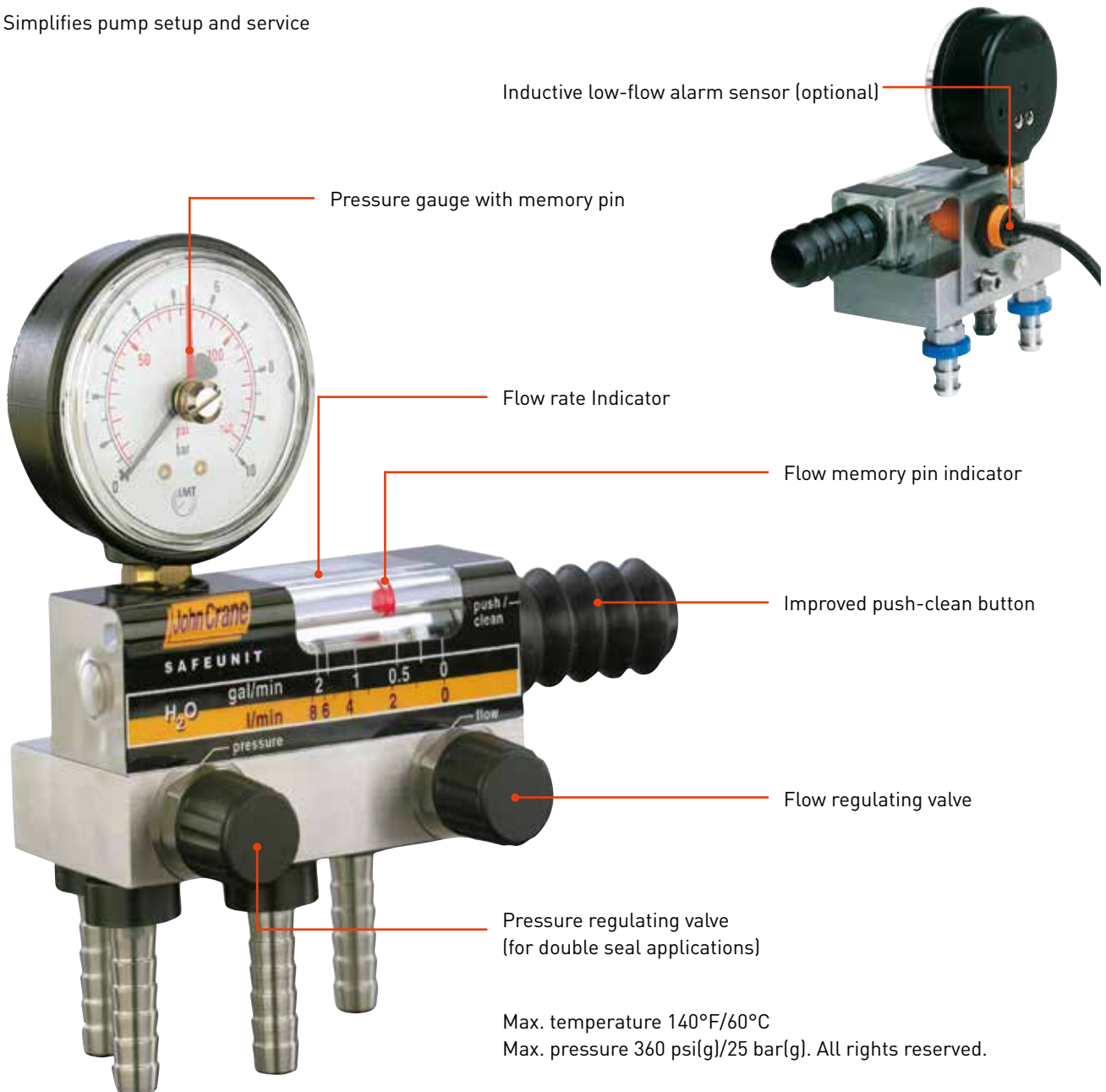
Changes in the pre-set system values for flow and pressure will indicate any possible problems in seals and system well in advance. For automatic control, alarm sensors can be used.

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

SAFEMATIC Safeunit

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
- Freeze resistant material is also available



Max. temperature 140°F/60°C
Max. pressure 360 psi(g)/25 bar(g). All rights reserved.

Mechanical Sealing Systems

Safeunit Options

Safeunit type:

- Type SFP
- Type SFQ
- Type SFD

Flow:

Standard Material:

- 0.75 gpm (3 l/min)
- 2 gpm (8 l/min)
- 4 gpm (15 l/min)

Freeze Resistant Material:

- 0.75 gpm (3 l/min)
- 2 gpm (8 l/min)
- 4 gpm (15 l/min)

Pressure area:

- 87 psi(g)/6 bar(g)
- 150 psi(g)/10 bar(g)
- 232 psi(g)/16 bar(g)
- 360 psi(g)/25 bar(g)

Complete hose assembly:

- Yes

Seal connections:

- NPT
- R
- 1/8
- 1/2
- 1/4
- Other
- 3/8

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)
- EX-1



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