

Seal Water Control and Monitoring System



Safematic® 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

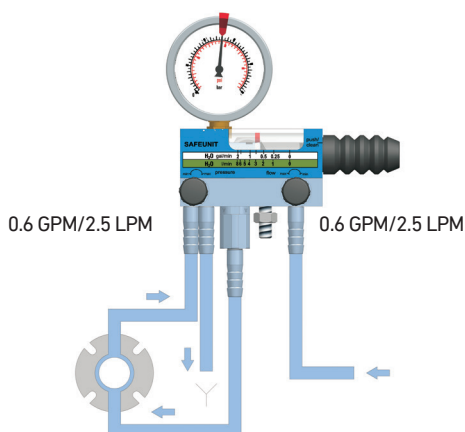
2 drops/second = 14 m³ / year

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 1 gpm/4 lpm per pump)

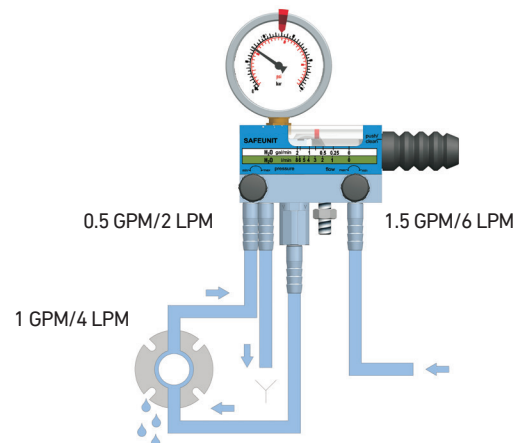


Normal operation



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

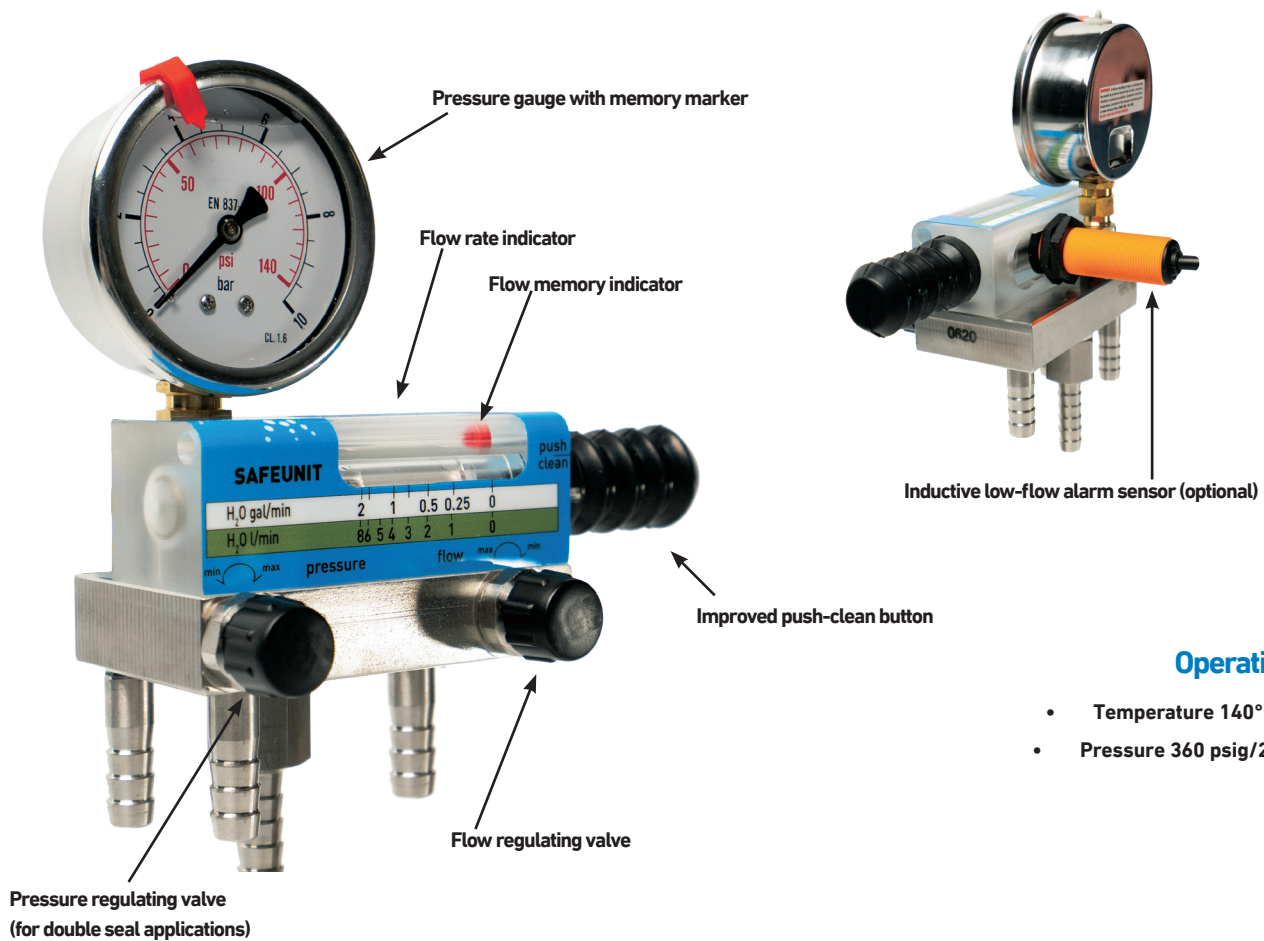


Safeunit system also detects seal water leakage in the process resulting in extra heating and evaporation costs or expensive quality problems such as dilution.

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 because of the push-clean button
- Simplifies pump setup and service
- Detects and locates seal water line problems
- Flow indicator and pressure gauge with memory marker
- Unique non-clog valves
- Available with optional electrical alarms
- Freeze resistant material is also available





YOUR NAME IS HOW WE MAKE OURS

Mechanical Sealing Systems with Safeunit

Safeunit Options

Safeunit type:

- Type SFP
- Type SFQ
- Type SFD

Flow:

Standard material:

- 0.75 gpm/3 lpm
- 2 gpm/7.5 lpm
- 4 gpm/15 lpm

Freeze resistant material:

- 0.75 gpm/3 lpm
- 2 gpm/7.5 lpm
- 4 gpm/15 lpm

Pressure area:

- 87 psig/6 barg
- 150 psig/10 barg
- 232 psig/16 barg
- 360 psig/25 barg

Complete hose assembly:

- Yes

Seal Connections:

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

Mounting:

- Bracket
- Stand



Alarm:

- AC-1 (20-250 VAC/DC)
- DC-1 (10-36 VDC)
- EX-1



Packing or single seal flush



Type SFP



Quench seal



Type SFQ



Double mechanical seal



Type SFD



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Safematic® is a registered trademark of John Crane

North America

United States of America
Tel: 1-847-967-2400

Europe

United Kingdom
Tel: 44-1753-224000

Latin America

Brazil
Tel: 55-11-3371-2500

Middle East & Africa

United Arab Emirates
Tel: 971-481-27800

Asia Pacific

Singapore
Tel: 65-6518-1800

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