

For further information see:  
[www.allweiler.com](http://www.allweiler.com)

## Perfect combinations for safety.



### ALLFUEL TWIN with ALLSEAL

The new screw pump as a double unit and with guarantee for maximum safety. Ideal for pumping oils and other lubricating liquids for oil firing, marine, fuel storage depots and other industrial applications.



### SNS series with ALLSEAL

Another building block of ALLWEILER SMART technologies: SNS series with ALLSEAL for a wide range of oils and oil products such as fuel oils, lube oils and hydraulic oils or bitumen. Main fields of application are oil firing installations and power engineering as well as hydraulic, marine and off-shore engineering.

### ALLWEILER Range of products and services

- >> Centrifugal Pumps
- >> Propeller Pumps
- >> Screw Pumps
- >> Progressing Cavity Pumps
- >> Peristaltic Pumps
- >> Macerators
- >> Plant Construction

### ALLWEILER Application Areas

- >> Marine and Offshore
- >> Power Generation
- >> Oil and Gas
- >> Process Technology
- >> Chemical Industry
- >> Bioenergy
- >> Heat Transfer
- >> Building Industry
- >> Machine Tools
- >> Pulp and Paper
- >> Water and Wastewater
- >> Food and Pharmaceutical

### All your benefits at a glance:

- >> Continuous monitoring of the mechanical seal
- >> Early detection of unusual leakage
- >> Collection of flammable and explosive liquids according to SOLAS regulations
- >> Compliance with highest environmental Standards (suitable for ships destined for USA)
- >> Longer pump service life



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## ALLSEAL

Optoelectronic Sensor for  
>> ALLWEILER vertical Screw Pumps  
>> all viscosities

### >> ALLSEAL MECHANICAL SEAL MONITORING

## Reduced costs through increased reliability.



 **LEAKAGE  
REDUCTION**  
100%



ALLWEILER is a business unit of Colfax Corporation

# ALLSEAL. Reliable leakage monitoring for mechanical seals.

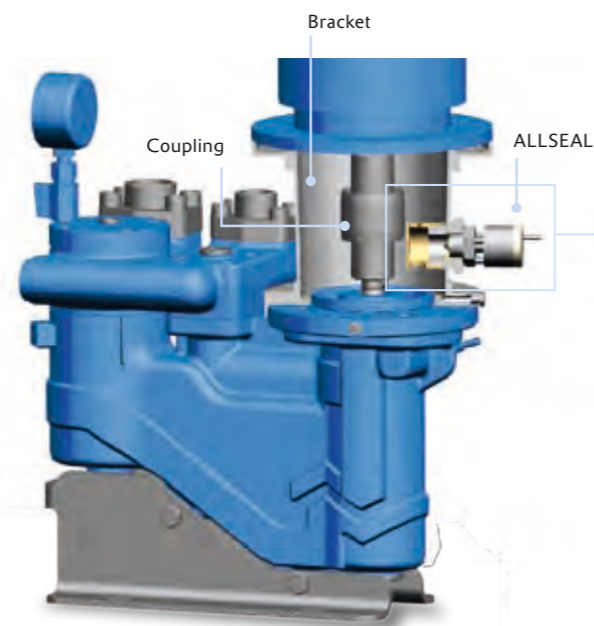
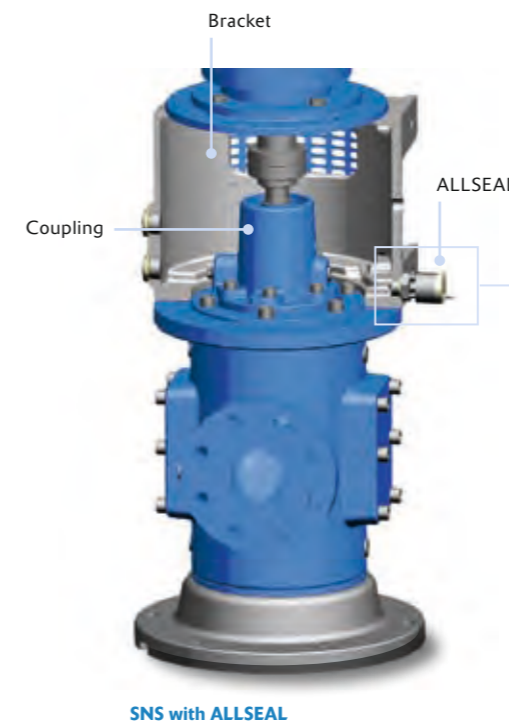
To operate properly, every mechanical seal requires a lubricating film between the sliding surfaces. This film is formed by the pumping medium itself. Elevated pressure inside the inlet chamber continuously pushes a small amount of lubricant out through the sliding surfaces. This standard leakage is monitored precisely by ALLSEAL.

A coupling bracket captures the standard leakage escaping from the pump. The optoelectronic sensor ALLSEAL with an infrared LED and a light receiver is located in the bracket wall. Light from the LED is directed from inside to the sensor's prism tip and is reflected from there to the light receiver.

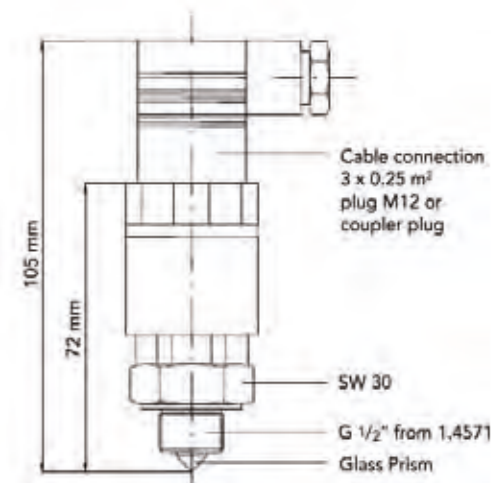
If the standard leakage in the coupling bracket reaches the fixed maximum, it will enclose the prism tip. So light reaches the light receiver not at all or only faintly. ALLSEAL reacts to this change immediately with a switching operation.

### Trouble-free cost reduction.

The absence or insufficient formation of the lubricating film leads to defective mechanical seals and thus costly pump failures. The ALLSEAL maintenance indicator will warn you on time about the condition of your pump. Thus, you will have enough time to avoid serious pump failures by using a combined emergency stop controller.



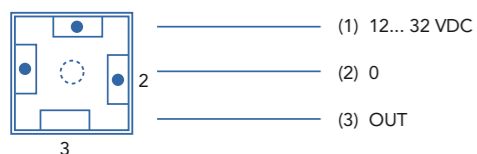
- >> No environmental contamination due to uncontrolled leakage
- >> High operational safety
- >> Excellent price/performance ratio
- >> Non-wearing
- >> For all viscosities
- >> Available with new unit or as a simple retrofit (Retrofit kits for ALLFUEL, SNS, ZASV)



ALLSEAL dimensions

### ALLSEAL electrical data

- >> Operating voltage: 12...32 V DC
- >> Current consumption: max. 40 mA
- >> Number of control panels: 1
- >> Function: Normally Open (NO) or Normally Closed (NC)
- >> Switch status indication: 1 LED
- >> Output: DC PNP transistor (200 mA), reverse polarity protected
- >> Protection class: IP65
- >> Electrical connection: PVC cable, PUR cable 3 x 0.25 mm<sup>2</sup>, Angle plug



Angle plug configuration

### ALLSEAL technical data

- >> Ambient temperature: up to +80 °C
- >> Media temperature: up to +170 °C
- >> Accuracy: ± 0.5 mm
- >> Casing: wetted parts made of stainless steel 1.4571
- >> Prism material: Quartz glass