

# ELLINGSEN LEVEL CONTROL

PRODUCED BY KSR KUEBLER

QUALITY PRODUCTS AND  
COMPONENTS FOR FLUID CONTROL



# LEVEL CONTROL

For over 50 years, Haakon Ellingsen AS has been the preferred partner in Norway for KSR Kuebler level instruments. With numerous deliveries throughout these years, we have established a solid application base and extensive product knowhow. Due to our high competence and field experience, we have contributed to several product improvements and inventions in close cooperation with KSR Kuebler.

At Haakon Ellingsen AS we challenge ourselves every day to perform in line with the toughest customer demands and applications. KSR Kuebler instruments are the nominated supplier on almost every offshore platform and marine vessel operating in the Norwegian offshore sector, due to high quality and proven in use operation.

Our customers appreciate the added value Haakon Ellingsen AS provide with well-trained sales and service engineers, workshop facilities and a project team providing correct documentation of the delivered equipment.



## TAILOR-MADE SOLUTIONS FOR LEVEL MEASUREMENT



## BYPASS LEVEL INDICATORS

Bypass level indicators form an integral part of the pressure vessel. The bypass indicator is mounted to the side of a tank or vessel.

A cylindrical float with a permanent magnet is contained inside the bypass tube. When the liquid level in the tank rises or falls, the permanent magnet inside the float rises or falls with it. The magnet affects the magnetic rollers, thus displaying the exact level of the tank. Transmitter and switching elements can be integrated in the system.



Process connection:	Threaded connection/Flange/Welding stub ends
Centre distance:	150 ... 25000 mm
Specific gravity:	$\geq 350 \text{ kg/m}^3$
Design pressure:	-1 bar ... 400 bar
Design temperature:	-196°C ... 400°C
Material quality:	Stainless steel/Titanium/Alloy C/6Mo/PVC/Polypropylene/ PVDF/Stainless steel E-CTFE coated/Stainless steel PFA coated/Stainless steel ETFE coated

# SIGHT GLASS LEVEL INDICATORS

Level gauges for continuous level indication without power supply. Direct indication of the level. Individual design and corrosion resistant materials make the products suitable for a broad range of applications such as; chemical, petrochemical industry, oil and natural gas extraction (on- and offshore), shipbuilding, machine building, power generating equipment, power plants, oil and gas, plants for cryogenics, heat transfer and refrigeration systems.

Production:	Process- and system-specific production
Operating temperature:	-196 ... +374 °C
Operating pressure:	Vacuum to 250 bar
Material quality:	Wide variety of different process connections and materials
Accessories:	Illumination optional, Heating and/or insulation optional
Product groups:	Reflex type, Transparent type with glass or mica, Refraction type, Valves



# MAGNETIC FLOAT SWITCHES

Magnetic float switches work according to the float principle by using magnetic transmission (permanent magnet/reed contact). A float with a built-in magnetic field is conducted along a non-magnetic guide tube. Due to the magnetic field of the permanent magnet, a reed contact located in the guide tube will be activated after the pre-defined height has been reached.

Electrical connection:	Connection cable/Terminal box/Connector plug
Process connection:	Threaded connection/Flange/Tri-Clamp/Aseptic blind cone
Level switch function:	Normally open/Normally closed/Change-over
Specific gravity:	≥ 400 kg/m <sup>3</sup>
Design pressure:	-1 bar ... 150 bar
Design temperature:	-50°C ... 250°C
Material quality:	Stainless steel/Brass/Titanium/Alloy C/Polyamide/PVC/ Polypropylene/PVDF/Stainless steel E-CTFE coated/ Stainless steel PFA coated



# MAGNETIC FLOAT LEVEL TRANSMITTER

The magnetic float level transmitter serves as a reading recorder for the electrical, continuous remote indication of the filling level. The operation of the measuring devices is based on the float principle. The magnet located inside the float triggers the reed contacts which uninterruptedly pick up the measuring voltage given at a resistance measuring chain.

Electrical connection:	Connection cable/Terminal box/Connector plug/ Terminal box with LED display
Process connection:	Threaded connection/Flange/Tri-Clamp/Aseptic blind cone
Specific gravity:	≥ 400 kg/m <sup>3</sup>
Design pressure:	-1 bar ... 150 bar
Design temperature:	-50°C ... 250°C
Material quality:	Stainless steel/Brass/Titanium/Alloy C/Polyamide/PVC/ Polypropylene/PVDF/Stainless steel E-CTFE coated/ Stainless steel PFA coated





## ELLINGSEN GROUP

Ellingsen Group consists of the following companies; Haakon Ellingsen AS, Ellingsen Systems AS and Ellingsen Indutech AS.

Ellingsen Group supply products for valves, actuation, instrumentation, pumps and engineered system solutions, to oil & gas, marine and land based industrial market. We combine quality products with decades of experience to design, engineer and provide the most beneficial solutions.

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OUR OVERALL VISION:  
TO BE OUR CUSTOMERS  
BEST CHOICE