**Product overview**

DK46, 47, 48, 800

VA40, VA45

DK32, DK34, DK37

H250 M40

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**Web-based training for variable area flowmeters**

As part of the KROHNE Academy online we offer a variety of web-based trainings (WBT) including a WBT covering variable area flowmeters. Here you will learn all about the process including the measurement principle and sizing, design, advantages and limits of operation right down to applications and industries – and it’s all free and available for unlimited use.

Register now for free: academy-online.krohne.com

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**Integrated measurement and monitoring of lubricants, coolants and sealing fluids**

**A reliable and economical way of protecting machinery and systems against wear**

Are you responsible for ensuring that machinery and system components are kept cool and lubricated by the continuous supply of operating fluids? Or are you looking for a reliable solution for measuring and monitoring sealing media in your gasket system?

Operating fluids perform a range of functions in system protection: they prevent overheating and wear, they stop explosive transported materials from igniting and serve as a sealing medium in gasket systems. No matter what the application, a continuous supply of operating fluids minimises wear and the probability of process systems failing, and also improves operational safety.

KROHNE’s variable area flowmeters, from the cost-effective mini flowmeter to the flexible all-rounder with worldwide approval for use in explosive areas and modular display structure, meet all the requirements of your system protection.

“An continuous supply of operating fluids ensures both the safety and cost-effectiveness of technical process systems.”
Measurement of coolants and lubricants in production machines

• Measurement of operating liquids for the cooling and lubrication of machinery with rotating shafts
• Flowmeter without power supply for direct reading of measured value or optionally available with limit switch to indicate shortfalls of minimum quantities
• Compact design and rear mounting bracket for integration in machinery
• Optionally available with adjusting valve
• Visibility for media changes

Operating liquids monitored in ring vacuum pumps

• Measurement and monitoring of supply of operating liquids in ring vacuum pumps:
  - seals impeller wells
  - cools medium being pumped
  - prevents sparking with explosive gases and vapours
• System standardisation thanks to
  - global approval for use in explosive environments
  - wide range of process connections
  - special equipment for various mounting positions
• Wide choice of materials for various operating liquids (Hastelloy®, titanium, Monel®, Inconel®, etc.)

Wear monitoring in gas seal systems

• Measurement and monitoring of gas supply to guarantee sealing function and wear monitoring
• High-pressure models for use in turbo compressors
• SIL conformity for current output and limit contacts

Abrasion protection in mechanical seals

• Measurement and monitoring of supply media in mechanical seals:
  - cools the seal
  - prevents dry running
  - separates process medium from surroundings
  - prevents abrasion of slide faces for process media with solid particles
• Can also be used with insulating sealing media such as oils, alcohol and ultra-pure water