



Frese ALPHA Cool cartridge

Dynamic regulation in cooling applications

The Frese ALPHA Cool Cartridges are particularly designed and manufactured for the automatic balancing of cooling applications. They are an integral part of the Frese Dynamic Balancing Valves keeping the flow constant at the specified level even under fluctuating pressure conditions

The innovative design features a replaceable cartridge for improved maintenance and greater flexibility. A high-quality rubber diaphragm between the piston and housing also eliminates friction, noise and leakage, which would otherwise affect valve accuracy.

The Frese ALPHA Cool cartridge design ensures that any impurities do not remain inside the cartridge. It can be used in both variable and constant flow systems.

Frese ALPHA Cool cartridges limits maximum flow in the system and ensures the most economical operation.

All Frese ALPHA Cool cartridges are designed and manufactured for long and maintenance-free operation.



Cartridge material:
PPS glass-reinforced

O-rings:
EPDM

Spring:
Stainless steel 1.4310

Diaphragm:
HNBR reinforced

Max differential pressure:
600 kPa

Operating temperature:
-20° to +80°C

Flow rate:
3,404 l/h to 47,691 l/h

Designed for cooling applications

Frese

Innovative solutions from Frese balance global HVAC systems accurately and efficiently. From cooling systems in the Middle East to heating systems in Scandinavia, our products transform state of the art technology into everyday solutions.

KNOWLEDGE

QUALITY



INNOVATION

MANUFACTURING
EXCELLENCE

CUSTOMER
FOCUS



Frese ALPHA Cool cartridges for cooling applications

For over 25 years, Frese has specialised in the design and manufacture of dynamic, pressure independent flow solutions for heating and cooling applications in a wide variety of market sectors including commercial office developments, hotels, educational establishments, sports complexes and residential buildings.



The Frese ALPHA wafer mounted with Frese ALPHA Cool cartridges is the perfect solution for accurate and efficient distribution of flow in larger cooling systems. Typical applications include air handling units, plant equipment and district cooling.

Manufactured from Ductile Iron, the Frese ALPHA Wafer range is available in sizes DN50 to DN800 suitable for flow rates from 0.946 l/s to 1,126 l/s.

The Frese ALPHA Wafer mounted with Frese ALPHA Cool cartridges works independently, therefore it can be installed in either single or multiple parallel distribution lines.

Furthermore, the independent nature of the valve provides total system flexibility with no re-commissioning required should the system be extended.

Frese ALPHA Cool applications

- Air Handling Units
- Plant Equipment
- District Cooling

