



Frese PV Compact

Differential Pressure Control Valve

Save pump energy and ensure trouble free commissioning of the system with the Frese PV Compact Valve. By design, the valve has a high Kv value which means it achieves the lowest pressure loss of any comparable differential pressure control valve on the market.

Due to fluctuating differential pressures, heating and cooling systems often create noise because the thermostatic control valves are unable to close completely.

Despite the more regular use of variable speed pumps, in larger systems the differential pressure will increase when the system is in a partial load condition. This causes an increase in system noise and the control valves to regulate inefficiently.

The Frese PV Compact Valve ensures a constant differential pressure across the load or circuit and subsequently, very accurate control valve regulation.

Due to the compact design of the valve it is easily installed in both domestic and commercial heating and cooling systems.



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Max. diff. pressure:
450 kPa

Temperature:
-10°C to 120°C

Dimension:
DN15-DN50

Flow range:
Up to 11.500 l/h

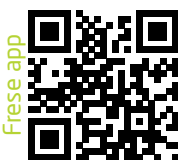
Material:
DN15-DN32: DZR Brass
DN40-DN50: Ductile Iron

Static pressure:
PN25

For cooling and heating

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.





Frese PV Compact for HVAC 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 PV Compact can be used in both domestic and commercial heating and cooling systems for the effective management of differential pressure in various sections of the system. The PV Compact is installed to protect the modulating control valves which could be either thermostatic radiator valves or two port control valves. Typical applications include systems with fan coil units, chilled beams, radiators and heat interface units.

The Frese PV Compact can also be installed with the Frese SIGMA Compact dynamic balancing valve for both differential pressure control and flow limitation (PV-SIGMA) or the Frese STBV balancing valves for both differential pressure control and flow balancing and verification (PV-STBV).

Applications

- Heating and Cooling Systems with modulating control valves
- Heating systems with thermostatic radiator valves
- Heat Interface Units

Manufactured from DZR and Ductile Iron, the Frese PV Compact is available in sizes DN15 to DN50, with 3 different control ranges. The flow range capacity is from 0.014 l/s (50 l/h) to 3.194 l/s (11,500 l/h).

