

Fire risk in powder plants!

Examples of pump failure

Design considerations for Vacuum Conveying of Milk powder products

There has been some information come to light making it that the safest type of vacuum pump type to be used for this process is the liquid ring pump.

See extracts below from operating instructions BA 880-80EN (12-2009) & BA 233-EN (4-2012), both manuals section 2.4 has the same wording.

Irrespective of the pump manufacture the problem of fire risk with any oil sealed rotary vane or hook & claw pump is high.



A Gardner Denver Product

Original Operating Instructions C-VLR

C-VLR 1000

Original Operating Instructions

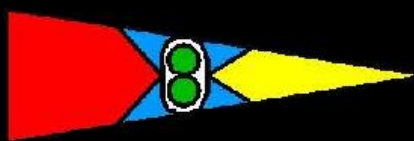
V-VC 400 | 500 | 700 | 900 | 1100 | 1300

Vacuum pump



2.4 Unacceptable operating modes

- extracting, conveying and compressing explosive, inflammable, aggressive or poisonous media, e.g. dust as per ATEX zone 20-22, solvents as well as gaseous oxygen and other oxidants, water vapour, liquids or solid materials
- must not be operated in rooms that are at risk of explosion and in Zone 22 dusty atmospheres that are at risk of explosion



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