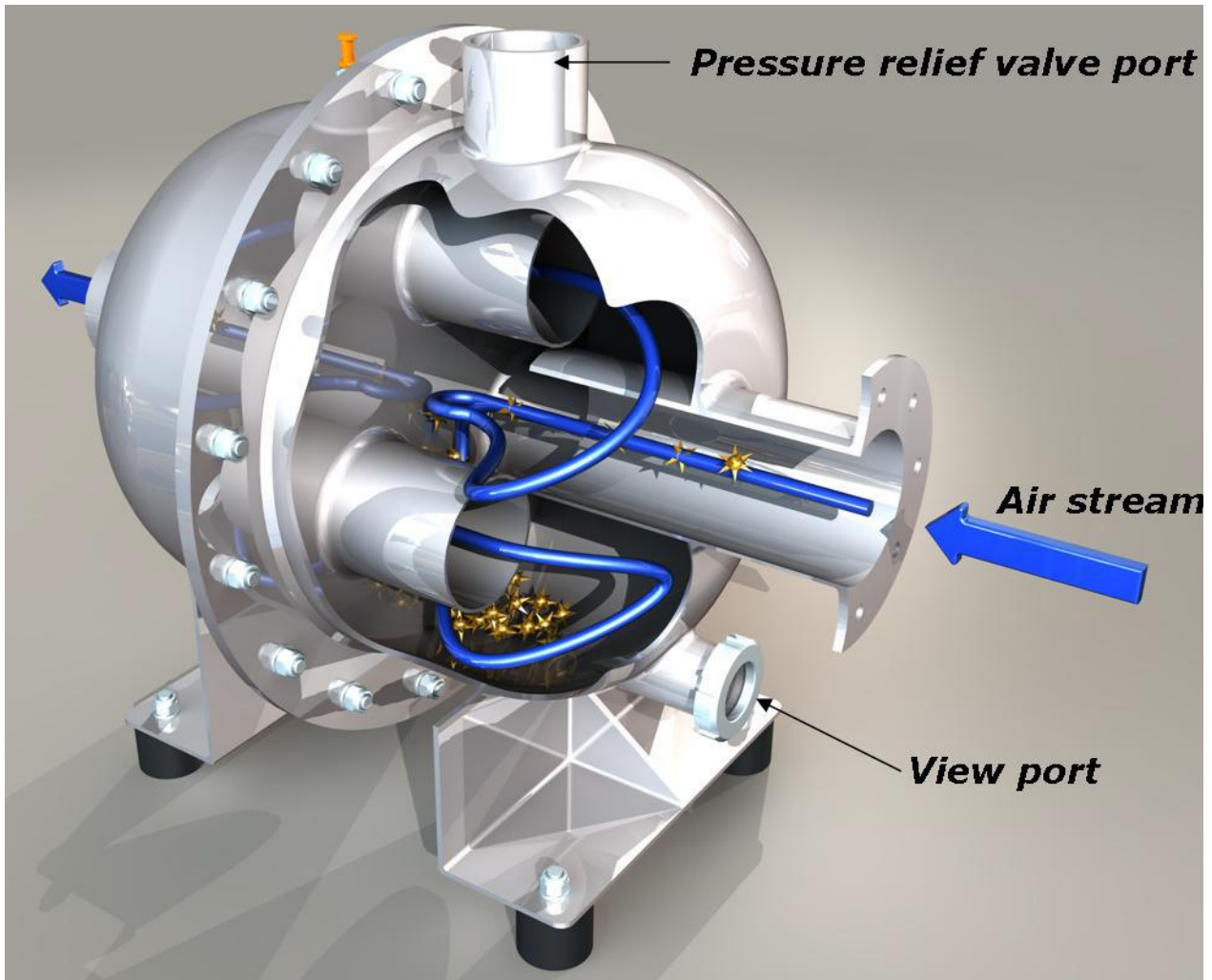


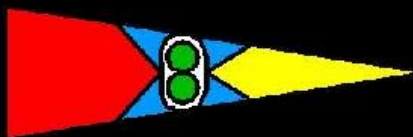
Food grade stainless steel Labyrinth trap/silencer



mbar Labyrinth traps reducing product downgrade

1. Stainless steel/white nitrile silencer/labyrinth trap.
2. Easy to disassemble and clean.
3. View port fitted to inlet side of silencer for easy inspection.
4. Check valve mounted up stream of trap so any component failure is caught in trap and seen.
5. Silencer on exhaust side so when blower seals fail lubricant is trapped and seen.

See what we have found! ...continued on page 2



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Food grade stainless steel Labyrinth trap/silencer

...continued from page 1 **See what we have found!**

The photo on the left shows the inside of absorptive silencer – the fiberglass mesh has deteriorated/disintegrated in place – this wasn't discovered until removed and silencer cut open – result, contaminated product!



The photo on the right shows a pressure relief valve which has been removed from a blow line down air stream from an absorptive silencer. The material (fiberglass) in the photo has been caught in the pressure relief valve. How much went into the product? Our estimate – 5x more!

The next two photos show product buildup (creating a mould spore factory!) inside a reactive silencer. The silencer in the photo was cut apart using a disc grinder. It was not possible to clean it to a satisfactory standard so was discarded and replaced with a cleanable mbar trap. The air velocity in the pipeline from the process is designed to convey powder products. The silencer is in the same pipeline; **therefore, if foreign bodies get into the air stream they will end up in the product.**



See what we have found! ...continued on page 3



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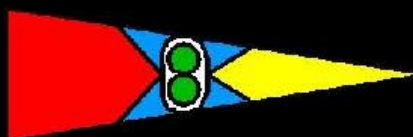
Food grade stainless steel Labyrinth trap/silencer

...continued from page 2 **See what we have found!**

The photo on the left shows lubricant droplets caught inside an mbar labyrinth/trap silencer giving early warning of seal failure in the blower and stopping product contamination. If the silencer in this product line was an absorptive or reactive silencer a) the early warning sign would have been missed causing pump failure and b) product contamination would have occurred.



The photo on the right shows foreign matter discovered inside an absorptive silencer once it was removed during a root cause analysis following product contamination.



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