

## **Case History No. 9 – Vacuum Filter Using Industrial Cartridges**

Duty: - protecting vacuum pump and environment

### **Problem:-**

A leading supplier of vacuum pumps to the pharmaceutical industry had a requirement for a cartridge filter housing that would be suitable for a 2” vacuum line complete with 20-micron cartridges.

### **Solution:-**

We had to supply a multi-cartridge housing complete with a closure that would seal under the vacuum and would not bypass.

For this reason we could not use the traditional low cost vee band clamp. We needed to utilise a housing with a three screw-down Rathman clamps. These are often used on large vessels in the pharmaceutical industry.

We supplied a 4 round x 20” stainless steel, single open-ended industrial quality housing with Rathman clamps, 2” BSPM connections.



### **Cartridges:-**

The cartridges that we supplied were 20 inch, 20 micron high surface area pleated with single open-ended code 8 push in double o-ring seal for ease of fitting and assurance of a high integrity non bypassing seal.

Note: A 20 micron absolute rated liquid cartridge has a rating of approx. 2 microns on gaseous duty.

**(E & OE)**



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