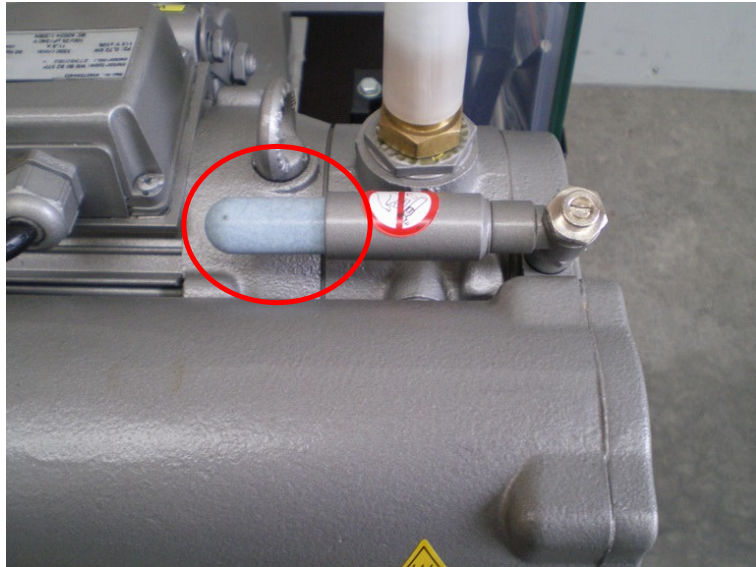


Gas ballast filter service for Becker U4.20 vacuum pump

Mounted on top of the Becker U4.20 pump is a small external filter. Its purpose is to introduce a small flow of filtered air into the pump to help discharge contaminating vapours such as water vapour and styrene vapour from the pump. In dusty atmospheres, this external filter may block. When the gas ballast filter becomes blocked the pump oil will contaminate more quickly. In most environments, the gas ballast filter should be changed annually. In very dusty atmospheres, more frequent changing may be necessary.

There are two types of gas ballast filter used on the Becker pump. Older models have a paper filter element in a clear plastic housing. Current models use a sintered blue plastic filter as illustrated below.



Changing the ballast filters

Paper element type

Loosen the gland nut securing the old filter element to the small pipe on top of the pump. Pull out the old element and pushing in the new one. Note that the larger diameter end of the filter housing goes toward the gland. The smaller diameter end of the housing is open to atmosphere.

Note that with some pumps it may be necessary to shorten the stem of the plastic filter to allow the stem to be fitted into the gland. If necessary, cut off the small diameter part of the stem with a hacksaw – taking care to remove all cutting particles with compressed air before inserting the element into the gland.

Blue plastic type

Unscrew the old blue plastic element. When it comes free of the metal housing it may bring a rubber valve with it. Make sure this rubber valve is reinserted into the housing facing the same way as originally fitted. Screw in the new filter element.