

## Clean filter presses safely GEMÜ ball valves with pre-assembled position feedback

### GEMÜ ball valves with pre-assembled position feedback protect compressed air networks

In water treatment and product filtration, filter presses separate solids and liquids in substances such as slurries or suspensions. The mixture of substances to be separated is pressed against the filter cloths via a pump with a pressure of 10–20 bar. The solid parts of the mixture are caught by the filter, forming a filter cake.

If the filter press is full, compressed air is used in some procedures to dry the filter cake. After completion of the drying process, the press is opened to dispose of the slurry. With an open valve position, however, the feed pump must be switched off, as a contaminated medium will otherwise be pressed into the compressed air network, which results in significant consequential damage to the pneumatic actuators. For this reason, a reliable position feedback of the shut-off valve is an absolute must-have in this step.

For one such deployment upstream of a filter press, a GEMÜ customer required a manually operated shut-off valve with a position feedback that was delivered to the installation site already fully fitted. Taking the given operating parameters into consideration, the choice fell to the tried-and-tested GEMÜ 762 compact flange ball valve with integrated GEMÜ LSC limit switch box. With this position feedback, the feed pump is disabled by the software. This prevented the medium from penetrating the compressed air network by means of the compressed air used when cleaning the filter press.



**GEMÜ has a winning formula in the form of its pre-assembled solution**

In this case too, GEMÜ was able to provide the customer with a technically advanced solution for ball valves for manual operation with a suitable electrical position indicator that was tailored to their requirements. And what's more, this solution was already pre-assembled, preset and tested.

Thus, the user obtained the appropriate solution for safe operation of their plant from a single source, while simultaneously avoiding additional effort and expenditure when it came to the logistics and installation of the plant on site, as well as the documentation.

For the position feedback, GEMÜ offers the GEMÜ LSF inductive dual sensors or the GEMÜ LSC limit switch boxes. They are available for both the GEMÜ 711 and GEMÜ 740 3-piece ball valves, the one-piece GEMÜ 762 compact flange ball valve as well as for the GEMÜ 797 high-pressure ball valve.



GEMÜ 762 – compact flange ball valve with integrated GEMÜ LSC limit switch box

