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## Pharma in Florence

**The technical chief of staff at Menarini, an Italian pharmaceutical firm, decided to realize the two new loops with our SYGEF HP BCF system.**

The Italian pharmaceutical group Menarini is a market leader in Italy with a market share of more than 7 %. They own 10 production sites, 4 of which are abroad, and employ approximately 6,000 people. Prior to this installation, all the already existing pipes for ultra pure water were made of steel.

### **Reasons for choosing PVDF**

The characteristics of PVDF, which is manufactured under ultra pure conditions, were an essential criteria in selecting the material, another was the easy installation. The final winning argument was the total cost of the installation. The two new loops consist of roughly 500 m of PVDF HP pipes, in the dimensions d 40 and d 50. Diaphragm valves, some of them type



***The connection from PVDF to steel was done with sanitary adaptors and clamp connections. All other joints were done with BCF.***

319 zero static valves, were installed at the points of use. Because the piping system is steam-sterilized, a special type of diaphragm valve, developed by Georg Fischer (patent pending) had to be used in order to compensate the different levels of thermal expansion of the valve components.

Once the end customer settled on PVDF HP BCF for his project, Georg Fischer supported him with training for installation and BCF welding in Schaffhausen. This was the first pharma application realized with PVDF HP in Italy.

Georg Fischer Italy has agreed to monitor the microbiological growth in the new loops in order to obtain more data regarding the behavior of PVDF.