Automation of filling machines for drinking water

Customer information
Ersey Makina produces various machines for all aspects of filling PET bottles with water, as well as larger containers with a capacity of 19 litres. The pneumatic equipment for these machines is planned and implemented exclusively in cooperation with Ersey Makina’s partner Festo. The main reasons for this decision, in particular with regard to machines destined for export, were the top quality, a supplier of economical technology, worldwide availability and excellent service.

Task
- Reliable machine automation using pneumatic and electrical components from a single source
- Reliable control of 2 and 3-way ball valves for feeding water to the filling station
- Precise dosing and minimised waste while filling containers at the filling station
- Simple and reliable further conveyance, capping and packaging of the bottles
- Durable, sturdy, easy to service products

Solution
- For the pipe leading to the filling station: DAPS quarter-turn actuators with VAPB stainless steel ball valves for controlling the flow of water
- At the filling station: DAPS dosing actuators. As the DAPS is half closed when a filling level of 75% is reached, no water is wasted, making the filling process more precise.
- Packaging and conveyance: economic standard components such as the DNT or DGP linear cylinder
- The drives are actuated via MN1H ISO valves.
- “Everything from a single source” – from control cabinets with electronics, the IPC controller and the drives through to accessories like tubing, fittings etc.

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