

## Automatic Selector Unit

100115

The automatic selector unit enables compressed air cylinders to be filled quickly and simultaneously in parallel from a single storage system (buffer) and via the compressor.

### How it works:

The storage bottle connected to the filling panel takes priority for filling, i.e. the storage system and the compressor always start by filling the breathing air cylinders at the filling panel.

Once these cylinders have been filled completely, the storage system is topped up by the compressor.

When the maximum filling pressure is reached in the storage system, the compressor shuts down again entirely automatically. As soon as the next empty compressed air cylinder is connected to the filling panel, the fully automatic filling cycle starts again from the beginning.

### How the automatic selector unit works

Once the compressed air cylinder has been connected to the filling panel and the cylinder and filling valves have been opened, compressed air flows out of the storage system and into the compressed air cylinder. This flow continues until pressure equalisation between compressed air cylinder and storage cylinder is achieved. At this point, the automatic selector unit switches on the compressor and starts to fill the compressed air cylinder to be filled until the maximum cylinder filling pressure is reached. Once the compressed air cylinder is full, the automatic selector unit switches over again: next, the compressor refills the storage system until it switches off automatically when the maximum storage pressure is reached.

This process runs without manual intervention and is very reliable thanks to being 100% reproducible.

## Technical specifications

### The automatic selector unit performs 3 important functions:

- Advance filling of the compressed air cylinders from the storage system by means of compressed air overflow up to the pressure equalisation point.
- Filling of the connected compressed air cylinder directly by the compressor until the cylinder filling pressure is reached.
- Topping up of the storage system until the maximum storage pressure is reached.

