

## Function

The bladder fulfils an important function in pulsation dampers. As an elastic component it guaranties a complete separation between the nitrogen cushion and the fluid. The gas cushion can therefore not flow into the main line. The whole damper volume can be used to capture the surplus or deliver additional energy. The precharge pressure, the gas filling P<sub>0</sub>, has to be calculated and indicated on the damper's rating plate. The water exchange occurs through pressure variations in the system.

## Forced Flow

Forced flow induces an additional water exchange through the external line as soon as the pump is running.

By inserting a short pipe elbow turned against the flow of the main line, a small reduction of the main line cross section is created. 1 to 2% of the flow rate passes through the small pipe into the damper and returns to the main line through the main connection.

This is enough to renew the water in the vessel every 1 to 2 days.

## Accessories

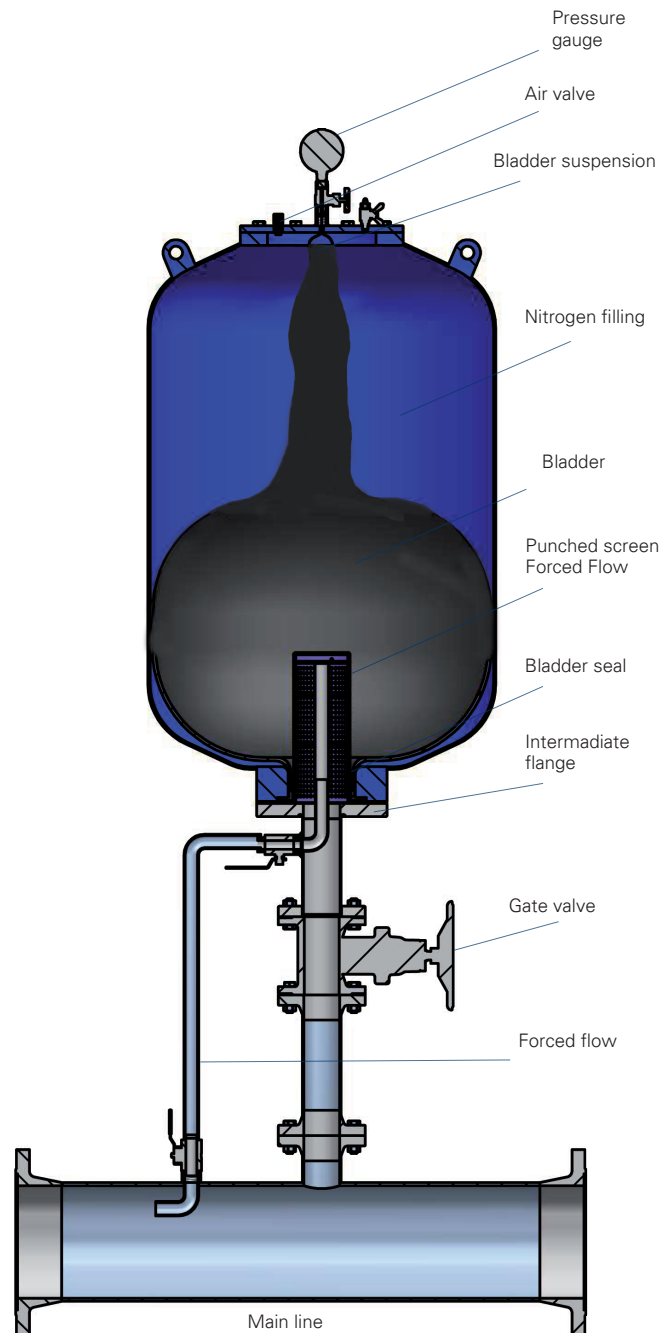
- Digital level indicator according to OLD 1115
- Stand extension according to OLD 1140
- Forced Flow

## Damper advantages

- Operates without external energy
- Minimum space requirements
- Cost saving on the building
- No vessel corrosion
- Long service life
- Low maintenance
- Controlled water exchange in vessel (Forced Flow)

## Digital level indicator advantages

- Easy monitoring of the water level with one glimpse
- Permanent remote monitoring with interface
- Precharge pressure readjustable during operation
- Maximum safety for the installation operator



**For perfect  
drinking water!**



**SVGW**

