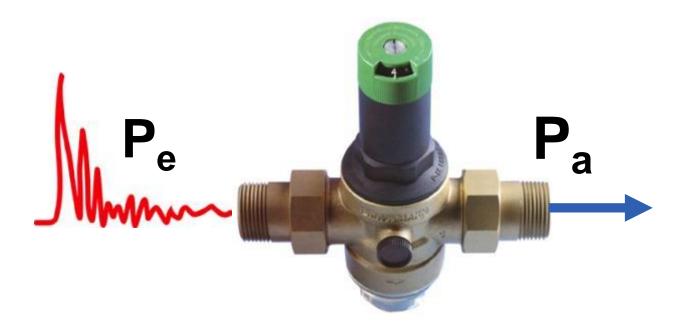
Design requirements EN 806-2



Pt. 15.2.2 pressure reduction

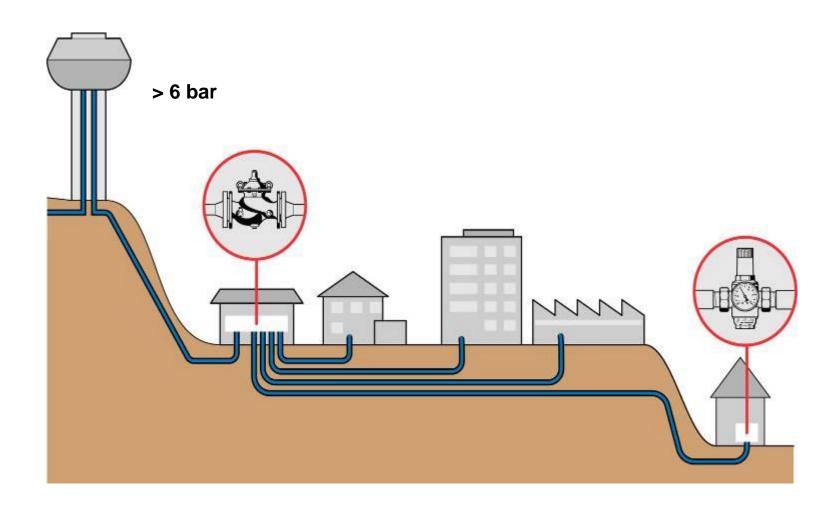
"A pressure reducing valve shall be installed if the service pressure or the operating pressure at the delivery pressure side of a pressure booster may rise above the maximum design pressure (PMA) of appliances, valves and other components."





High water pressure from the main



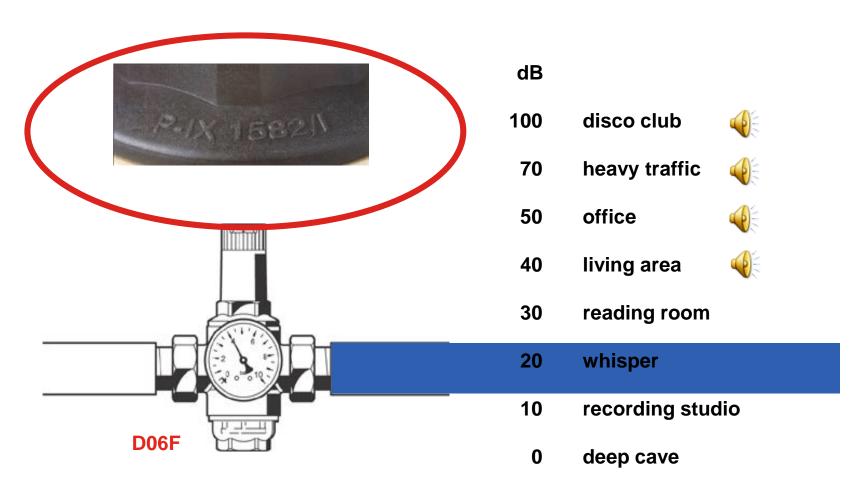




Prevents noise caused by water flow

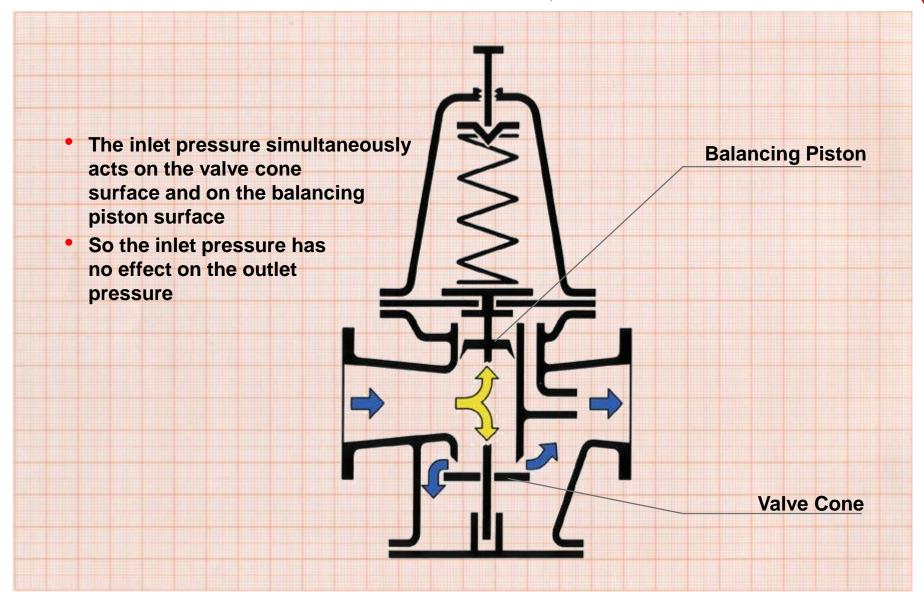


Certified noise level



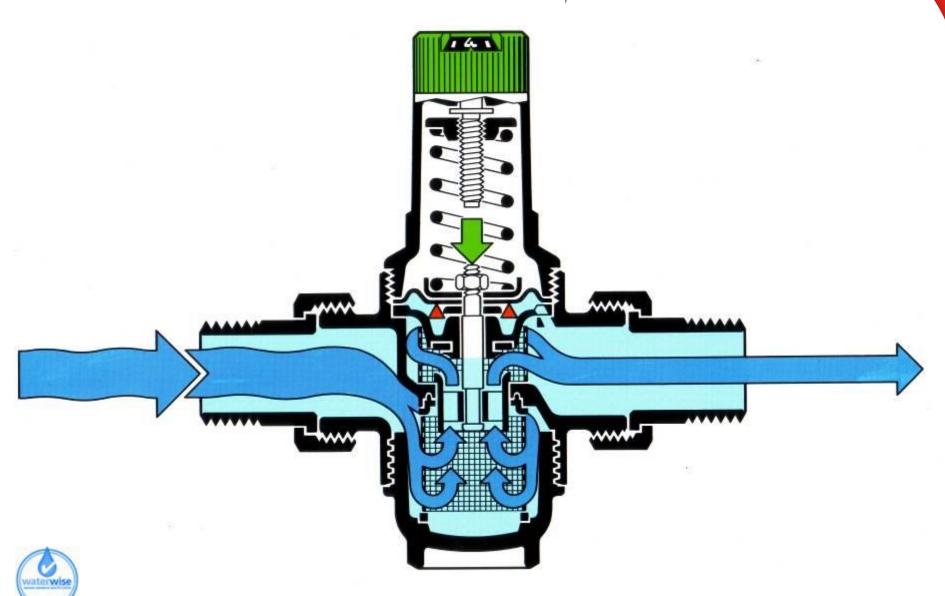
Balanced Pressure Reducing Valves





Operating principle D06F (D04FM)

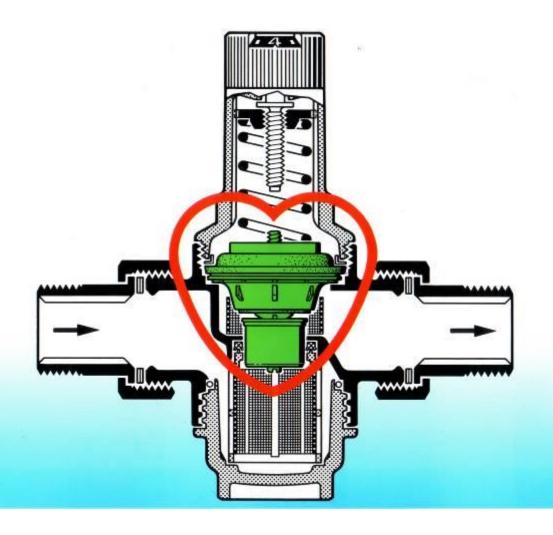




Operating principle D06F/D04FM

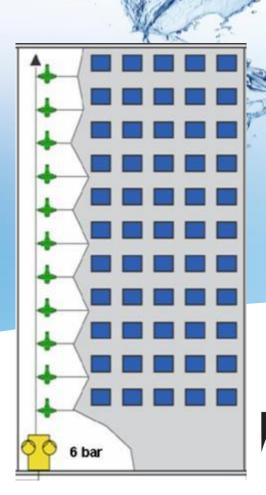








Pressure reduction in tall building installation

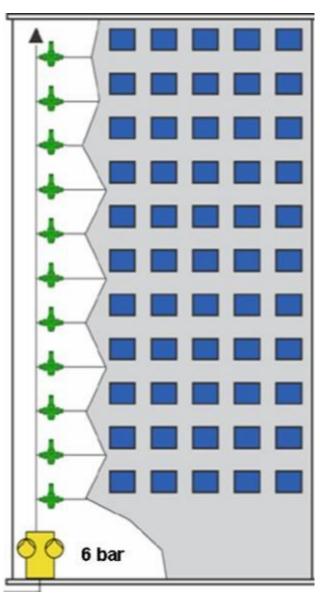




Main pipes PRV vs. each floor PRV system AutomatikCentret



- stable water pressure on each floor
- less flow noise in pipe system
- small size for space saving
- isolation valves in small dimensions
- easy for maintenance on each flat
- no water harmer, protecting the installation





each floor PRV system





Pressure reducing valves



Sizing, selection and installation requirements





Pressure reducing valves - sizing

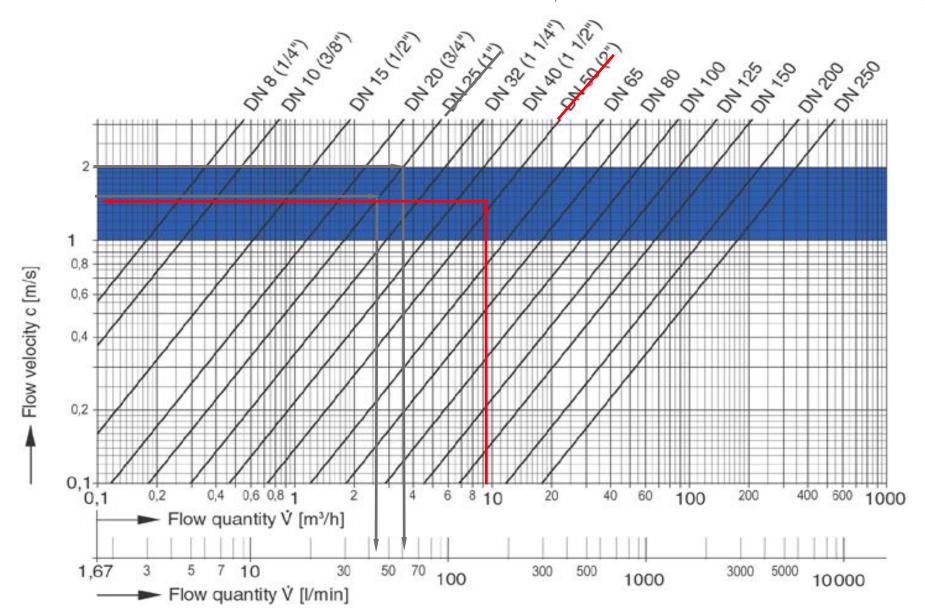


Sizing of direct operated pressure reducing valves medium water - for household applications

- Use our grid table in the technical catalogue
- To avoid flow noise normal flow velocity range between one and two meters per second - shaded in dark grey
- It is normal to assume a flow velocity of 1.5 meters per second, what leaves adequate reserves for subsequent higher loading
- to avoid cavitations prv are always selected according to the flow
- For commercial or industrial applications a higher flow velocity can be calculated

Pressure reducing valves - sizing





Pressure reducing valves - sizing



Cavitation at Pressure Reducing Valves and Pressure Regulators

- Too large differential pressure and a low downstream pressure may result in damage to the valve by cavitation.
- To avoid it, refer to the cavitation curve.
- If necessary take the differential pressure in two or more stages by connecting two or more prv's in tandem.







