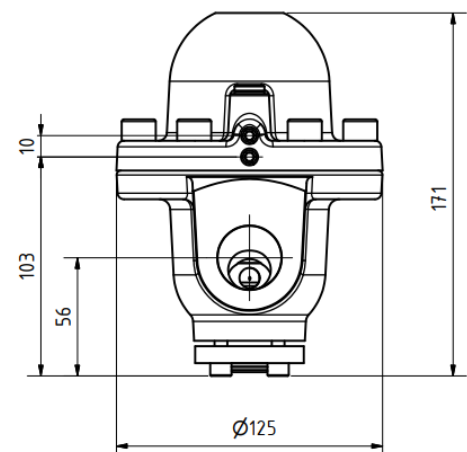
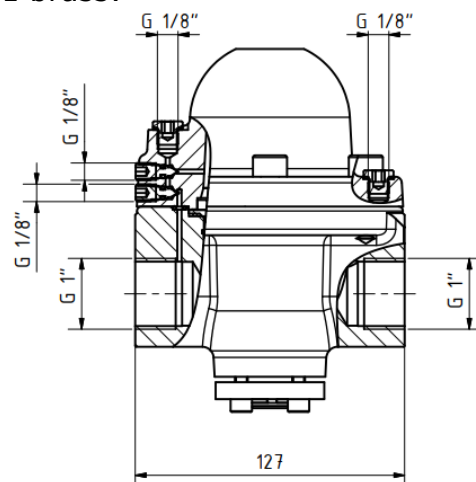
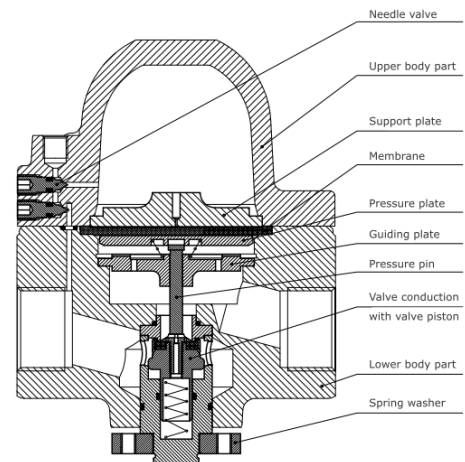


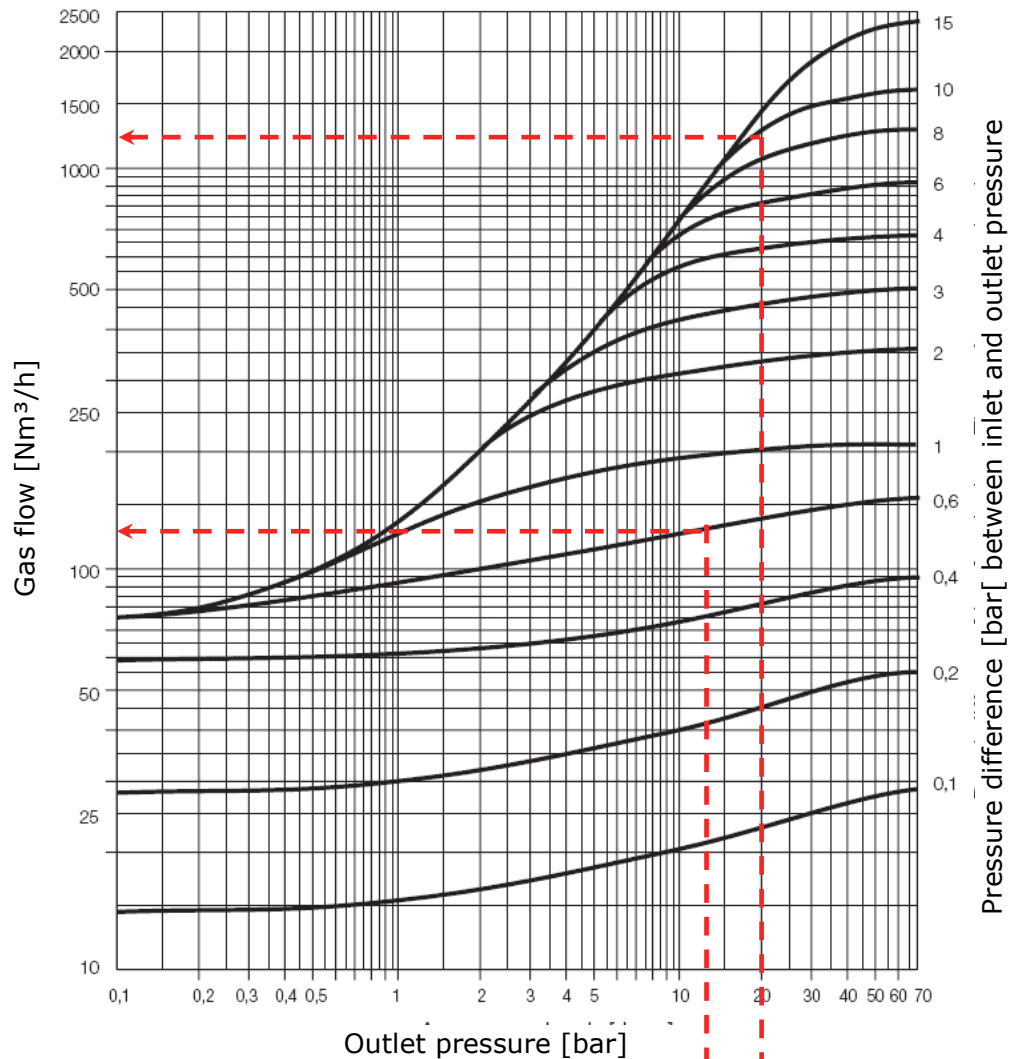
# Data sheet dome loaded pressure regulator LTD-1

## Precise and instantaneous pressure control without “wobbling“ even with large variations

- For almost all technical gases, air and liquids
- Performance: 10 ... 2,500 Nm<sup>3</sup>/h
- Maximum inlet pressure:
  - ND: Inlet: 25 barg Outlet: 0.1 .. 24 barg
  - MD: Inlet: O<sub>2</sub> 40 barg, other gases 100 barg  
Outlet: O<sub>2</sub>: 0.5 ... 39 barg, other gases 0.5 ... 99 barg
  - HD: Inlet: 414 barg Outlet: 28...138 barg
- Sealing material:
  - Viton: -20°C ...100 °C for O<sub>2</sub>, and all technical gases except acetylene and CO<sub>2</sub>
  - EPDM: -40°C ... 130 °C for CO<sub>2</sub> and all neutral gases (not for O<sub>2</sub>)
- Weight: Brass: 6 kg; Stainless Steel: 13 kg; SS high pressure 9.9 kg
- Connection inlet and outlet: G 1" RH - female
- Safety function: closed by spring force and positive tightening
- Materials: Brass; brass nickel plated; stainless steel
- Options:
  - Suitable for food (acc. to Regulation (EC) No. 1935/2004)
  - Suitable for medical applications (according to the requirements of DIN EN ISO 15001:2012-06)
  - pressure control units or pressure control systems
- Dimensions LTD-1 brass:



## Performance diagram LTD-1 brass



### Conversion factors:

- Oxygen: 0.95
- Hydrogen: 3.80
- Propane: 0.80
- Carbon dioxide: 0.81
- Dinitrogen monoxide: 0.80
- Nitrogen: 1.00
- Argon: 0.85
- Helium: 2.70

### Example 1:

Pressure reduction from 13.6 bar to 13.0 barg. The gas flow amounts to approx 130 Nm<sup>3</sup>/h Air = 494 Nm<sup>3</sup>/h Hydrogen

### Example 2:

Pressure reduction from 30 to 20 barg. Gas flow approx. 1,240 Nm<sup>3</sup>/h air, equal to 1,000 Nm<sup>3</sup>/h Propane

### Kv-value = 2.9

Note: Performance values for the LTD-1 can only be calculated approximately using the Kv value (results are higher than the reading from the diagram), since the diagram includes the special properties of the housing and the Kv value considers only the diameter of the valve seat.