

Pressure regulator GV



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CHARACTERISTICS

- For reducing and stabilizing the gas pressure in pipeline.
- The pressure compensation device could maintain the stable of outlet pressure regardless the inlet pressure changing.
- Zero shut-off (The post-valve line pressure remains stable in a zero-flow state).
- Medium: natural gas, LPG and other clean gases.

APPLICATIONS

Installed in the main gas pipelines or in pipelines in front of the ignition burners to reduce and stabilize the pipe pressure. It is also available in combustion air pipelines of the ignition burners or other clean gas pipelines.

SPECIFICATION

Pressure loss

0.4bar

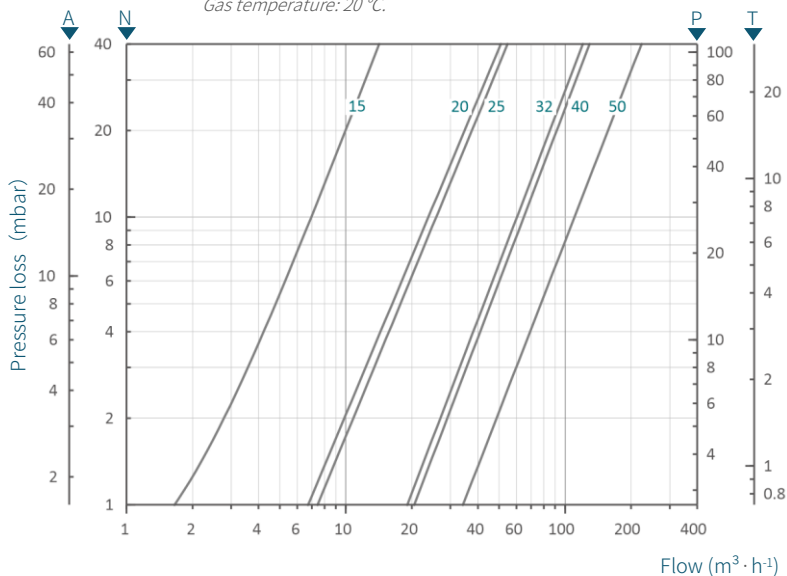
A: air, 1.2 kg/m³

N: natural gas, 0.75 kg/m³

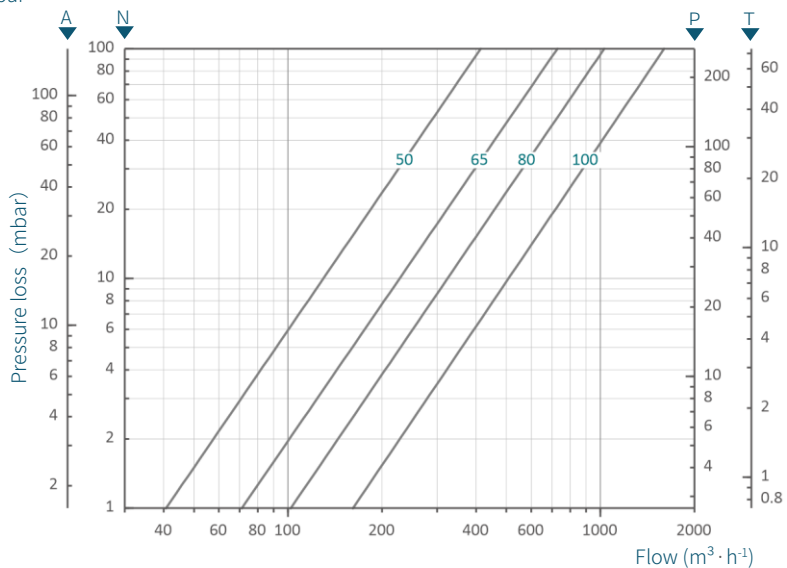
P: LPG, 2.0 kg/m³

T: town gas, 0.55 kg/m³

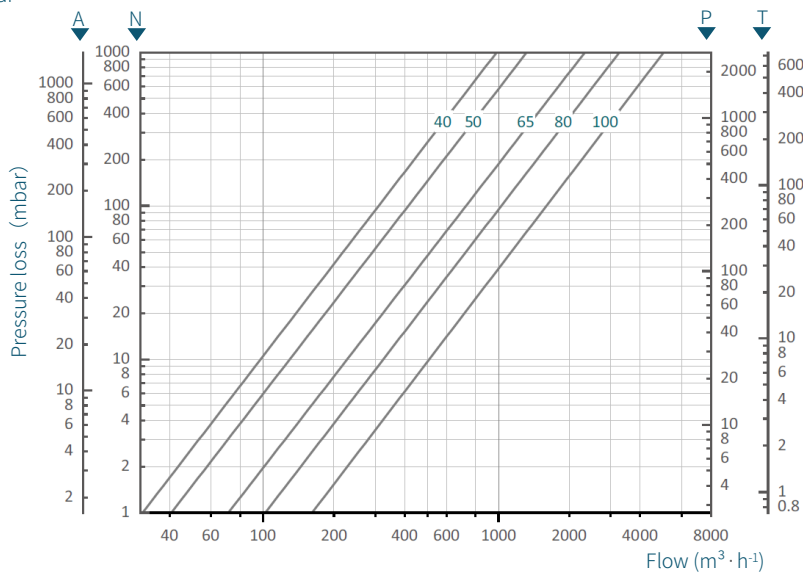
Gas temperature: 20 °C.



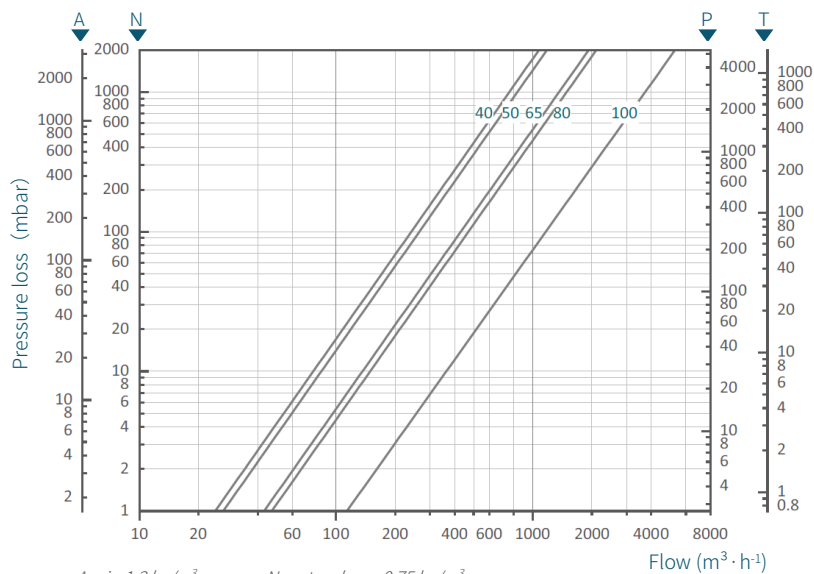
0.5bar



1 bar



4 bar



A: air, 1.2 kg/m^3

N: natural gas, 0.75 kg/m^3

P: LPG, 2.0 kg/m^3

T: town gas, 0.55 kg/m^3

Gas temperature: 20°C .

Type table

Type	GV	20	R	0.4B
Dimension	15: DN15 32: DN32	20: DN20 40: DN40	25: DN25 50: DN50	
Access	R: thread			
Max pressure	0.4B: 0.4bar			

Type	GV 65					F	1B	F
Dimensions	40: DN40	50: DN50	65: DN65	80: DN80	100: DN100			
Access	F: flange							
Max pressure	0.5B: 0.5 bar	1B: 1 bar	4B: 4 bar					
Others	F: antisepsis (0.5~1 bar)							

Type	Access	Inlet pressure adjustment range /mbar			
GV 15~50	Thread	15~80			
GV 40~100	Flange	50~80	100~160	150~230	220~350

Dimension

Type	Access	L/mm	H ₁ /mm	H ₂ /mm	Maximum inlet pressure /mbar
GV 15R0.4B	Rp $\frac{1}{2}$ "	126	132	34	400
GV 20R0.4B	Rp $\frac{3}{4}$ "	126	132	34	400
GV 25R0.4B	Rp 1"	126	132	34	400
GV 32R0.4B	Rp $1\frac{1}{4}$ "	157	149	46	400
GV 40R0.4B	Rp $1\frac{1}{2}$ "	157	149	46	400
GV 50R0.4B	Rp 2"	202	168	52	400

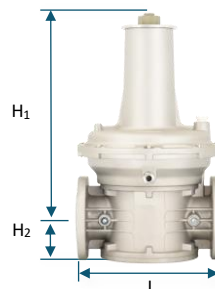


Type	Access	L/mm	H ₁ /mm	H ₂ /mm
GV 40F	DN 40	200	303	70
GV 50F	DN 50	230	311	83
GV 65F	DN 65	310	440	89
GV 80F	DN 80	310	440	100
GV 100F	DN 100	350	500	115

For flange connections, the paired flanges conform to GB/T9119-2010 in PN 1.6

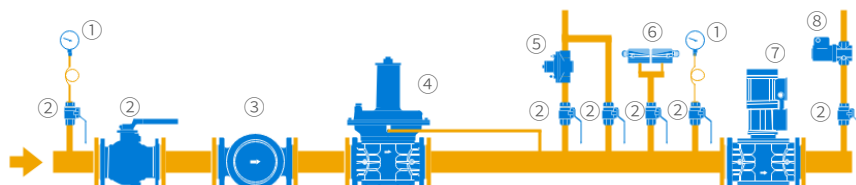
MPa.

GV..F1B and GV..F4B need Φ12 Copper pipes as feedback tubes.



SOLUTIONS

For gas main pipeline:



① Pressure gauge

② Gas manual shut-off valve

③ Gas filter SF

④ Gas pressure regulator GV

⑤ Relief valve SRV

⑥ Pressure switch GS

⑦ Gas motorized valve HM

⑧ Normally open solenoid valve SOV

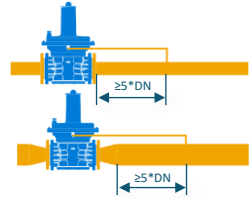
INSTALLATION

- The GV could be installed on the pipes in any direction, the spring dome must not face down.
- Pay attention to the flow direction when installing.
- Ambient temperature: -15~60 °C, keep away from the heat.
- Reserve positions to adjust or replace the spring.



- GV..1B and GV..4B series needs extra feedback tubes. The inlet of feedback tube shall be installed at the 5*DN straight segment downstream of the valve.

Feedback tube installation requirements



Attention

- The pipe must be purged before installing the valve, pay attention to the correct use of sealing materials, forbid foreign matters falling into the valve.
- Do not weld the pipe around the valve after installing to prevent foreign matters from blocking or damaging the valve.
- For easy maintenance, install a manual shut-off valve upstream.
- Install the filter SF upstream to protect the regulator from foreign matters.
- Pipe flow rate above 30 m/s may cause pipe vibration.
- Adjust the outlet pressure of valve by adjusting the spring, different pressure adjustment ranges need different spring.
- The pressure adjusting knob is at the top of spring dome, clockwise adjustment pressure increases.
- Do not exceed the valve max calibration pressure.
- Prohibit installing an automatic shut-off valve in front of the valve, and the manual shut-off valve upstream needs to open slowly to prevents the valve from overpressure damage.
- The media temperature: room temperature.



Adjusting knob

 **Overpressure prohibited!**

Maintenance

- Once a year. Increase the times of maintenance as is the case.