

NeoR

The **NeoR** is a double stage gas pressure regulator by Pietro Fiorentini. Designed to ensure continuous gas supply while maintaining a high level of safety with reduced emission. The NeoR is a service regulator without slam-shut device, incorporating a double token relief valve (IRV) with partial capacity. It is particularly suitable for low pressure natural gas distribution systems for residential users. It should be used with previously filtered non-corrosive gases including biomethane and RNG (Renewable Natural Gas). The NeoR is Hydrogen Ready for NG-H2 blending.



Residential users

Features	Values		
Design pressure* (PS ¹ / DP ²)	up to 860 kPa up to 125 psig		
	Standard version	Arctic version	
Ambient temperature* (TS ¹)**	-30°C to +65°C -20°F to +150°F	-40°C to +65°C -40°F to +150°F	
Inlet gas temperature*,***	-20°C to +65°C -4°F to +150°F	-30°C to +65°C -20°F to +150°F	
Inlet pressure (MAOP / p _{umax} ¹)	from 69 kPa to 0.69 MPa from 10 psig to 100 psig		
Nominal capacity	18 Sm ³ /h 630 scfh	28 Sm ³ /h 1000 scfh	40 Sm ³ /h 1400 scfh
Minimum inlet pressure	69 kPa 10 psig	69 kPa 10 psig	103.4 kPa 15 psig
1st cut set point	6.9 kPa 1 psig	10.3 kPa 1.5 psig	27.6 kPa 4 psig
Overpressure protection (OPP)	12.8 kPa 1.85 psig	13.8 kPa 2 psig	34.5 kPa 5 psig
Range of downstream pressure Wds	from 1.3 kPa to 13.8 kPa from 5" w.c. to 2 psig		
Accuracy	According to ANSI B109.4 and CSA 6.18		
Lock-up pressure	According to ANSI B109.4 and CSA 6.18		
Connections*	In-line / 90° configuration 3/4" or 1" NPT according to ANSI B1.20.1, other configurations or connections on request		

(¹) according to EN334 standard

(²) according to ISO 23555-1 standard

(*) NOTE: Different functional features and/or extended temperature ranges may be available on request. Stated inlet gas temperature range is the maximum for which the equipment's full performance, including accuracy is guaranteed. Product may have a different pressure or temperature ranges according to the version and/or installed accessories.

(**) NOTE: Stated temperature range is the operating range for which the equipment's mechanical resistance and leakage rate are guaranteed. Some body materials, if multiple choices are available, may not be suitable for all the available versions shown.

(***) NOTE: Stated temperature range is the range for which the equipment's full performance, including accuracy and lock-up are guaranteed. Some body materials, if multiple choices are available, may not be suitable for all the available versions shown.

Table 1 Features

Materials and Approvals

Part	Material
Body	Aluminum
Cover	Aluminum
Diaphragms and seats	Nitrile rubber
Sealing rings	Nitrile

NOTE: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.

Table 2 Materials

Construction Standards and Approvals

The NeoR regulator is designed according to ANSI B109.4 and CSA 6.18



ANSI B109.4



CSA 6.18

NeoR competitive advantages



Operates with low differential pressure



Overpressure protection without slam-shut or full capacity IRV



Two-stage single orifice regulator



3 ft or more clearance installation according to 49 CFR § 192



Built-in thermal valve option



Built-in strainer



Suitable for outdoor installations



Biomethane (RNG) compatible and 20% Hydrogen blending compatible. Higher blending available on request