

Norval

Norval is one of the **direct-operated gas pressure regulators** designed and manufactured by Pietro Fiorentini. Suitable for use with previously filtered gaseous fluids, it is mainly used for medium and low pressure natural gas distribution networks.

According to the European Standard EN 334, it is classified as **Fail Open**.



Medium / small industry



Gas engines



Regasification



District stations



Commercial users

Features	Values
Design pressure*	up to 1.89 MPa up to 18.9 barg
Ambient temperature*	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet gas temperature range*	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet pressure range bpu (MAOP)	<ul style="list-style-type: none"> for DN up to 3": from 0.01 to 1.89 MPa from 0.1 to 18.9 barg for DN 4", 6" and 8": from 0.01 to 0.8 MPa from 0.1 to 8 barg
Range of downstream pressure Wd	<ul style="list-style-type: none"> for DN up to to 4": from 0.0008 to 0.44 MPa from 0.008 to 4.4 barg for DN 6" and 8": from 0.0012 to 0.18 MPa from 0.012 to 1.8 barg
Available Accessories	SN Slam shut, silencer, ER monitor attachment
Minimum differential pressure	10 KPa 100 mbarg
Accuracy class AC	up to 5
Lock-up pressure class SG	up to 10
Nominal dimensions DN	DN 25 / 1"; DN 40 / 1" 1/2; DN 50 / 2"; DN 65 / 2" 1/2; DN 80 / 3"; DN 100 / 4"; DN 150 / 6"; DN 250 / 8"
Connections*	Class 150 RF according to ASME B16.5 and PN16 according to ISO 7005

(*) REMARK: Different functional features and/or extended temperature ranges available on request. Stated temperature ranges are the maximum for which the equipment's full performance, including accuracy, are fulfilled. Standard product may have a narrower range.

Table 1 Features

Materials and Approvals

Part	Material
Body	Cast steel ASTM A 216 WCB (all DN). Spheroidal ductile iron GS 400 – 18 ISO 1083 DN 150 (6") included.
Heads	Diameter from 375 mm to 630 mm Drop-forged carbon steel From 658 mm to 817 mm Alluminium
Seat	Stainless steel
Diaphragm	Rubberized canvas (performed by hot-pressing process).
O-rings	Nitrile rubber
Compression fittings	On request

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

Table 2 Materials

Norval regulator is designed according to the European standard EN 334. The regulator reacts in opening (Fail Open) according to EN 334. The product is certified according to European Directive 2014/68/EU (PED). Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 334



PED-CE

Norval competitive advantages



Compact and simple design



High accuracy



Fail Open plug and seat regulator



Balanced type



Top Entry



Easy maintenance



In-built accessories



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