

Dival SQD1

The **Dival SQD1** by Pietro Fiorentini is a **lever-operated** gas pressure regulator controlled by a diaphragm and contrasting regulated spring action. Mainly used for medium and low pressure natural gas distribution networks, as well as commercial and industrial applications. It should to be used with previously filtered non-corrosive gases. According to the European Standard EN 334, it is classified as **Fail Open**. The Dival SQD1 are **Hydrogen Ready** for NG-H2 blending.



District stations



Medium/small industry



Commercial users

Features	Values
Design pressure* (PS ¹ / DP ²)	up to 0.6 MPa up to 6 barg
Ambient temperature* (TS ¹)**	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet gas temperature*.,***	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet pressure (MAOP / p _{umax} ¹)	from (Pd + 0.01) MPa to 0.6 MPa from (Pd + 0.1) bar to 6 barg
Range of downstream pressure (Wd ¹)	from 1.3 to 30 kPa from 13 to 300 mbar
Available accessories	LA slam shut, relief valve
Minimum operating differential pressure (Δp _{min} ¹)	0.01 MPa 0.1 barg
Accuracy class (AC ¹)	up to 10 up to 1% absolute (depending on working conditions)
Lock-up pressure class (SG ¹)	up to 20 (depending on version and set point)
Nominal size (DN ^{1,2})	in and out DN 40 1 1/2"
Connections	Flanged: Class 150 RF according to ASME B16.5 and ASME B16.42 PN16/25 according to ISO 7005-1 and ISO 7005-2

(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	Cast iron GS 400 – 18 ISO 1083
Cover	Alluminium
Seat	Brass
Diaphragm	Fabric finish rubber
O-ring	Nitrile rubber

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

Table 2 Materials

The **Dival SQD1** regulators are 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 class VIII according to ANSI/FCI 70-3.



EN 334



PED-CE

Dival SQD1 competitive advantages



Compact and simple design



Top Entry



High accuracy



Easy maintenance



High turn-down ratio



In-build accessories



Fail Open plug and seat regulator



Balanced type



Built-in replaceable cartridge filter



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



Token IRV