

Cirval CE

The **Cirval CE** is a **lever-operated gas pressure regulator** controlled by a diaphragm and setting spring which controls the valve. Mainly used for commercial and industrial applications. It should be used with previously filtered non-corrosive gases. According to the European Standard EN 334, it is classified as **Fail Open**. The Cirval CE is **Hydrogen Ready** for NG-H2 blending.



Gas engines



Commercial users



Medium / small industry

Features	Values	
Design pressure* (PS ¹ / DP ²)	up to 860 kPa up to 8.6 bar	
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)	Internal sensing line from 13.8 kPa to 517 kPa from 138 mbar to 5.17 bar	External sensing line from 13.8 kPa to 861 kPa from 138 mbar to 8.6 bar
Range of downstream pressure (Wd ¹)	from 1.4 kPa to 82 kPa from 14 mbar to 820 mbar	
Available accessories	LA Slam shut, IFM (Integral Full Monitor), built-in strainer	
Minimum operating differential pressure (Δp _{min} ¹)	12 kPa 120 mbar	
Accuracy class (AC ¹)	up to 10	
Lock-up pressure class (SG ¹)	up to 20	
Nominal size (DN ^{1,2})	DN 40 1-1/2"; DN 50 2"	
Orifice	Cirval CE 200: 3/4" Cirval CE 300: 1-1/2"	
Connections****	Cirval CE 200: 1-1/2" and 2" according to ISO 228-1, Cirval CE 300: 2" according to ISO 228-1 ; 2" PN16 / ANSI 150RF according to ANSI B16.5	

(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.

(****) NOTE: For other types of connections, please contact our offices.

Table 1 Features

Materials and Approvals

Part	Material
Body	Ductile iron GS 400-18 ISO 1083
Cover	Die cast aluminum
Seat	Brass
Diaphragm	Nitrile rubber
Sealing ring	Nitrile

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

Table 2 Materials

The **Cirval CE** regulator is designed according to 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

Cirval CE competitive advantages



Compact and simple design



Top entry



High accuracy



Easy maintenance



Fail Open plug and seat regulator



Built-in accessories



Balanced type



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



Token IRV