

Cirval

The Cirval is available in two sizes the Cirval 200 8" head and the Cirval 300 12" head. The Pietro Fiorentini designed Cirval is controlled by a diaphragm, setting spring which controls a balanced valve cartridge. Typical applications for the Cirval are medium and low pressure natural gas distribution systems, as well as commercial and industrial applications. It is suitable for use with previously filtered non-corrosive gases. According to the European Standard EN 334, it is classified as a Fail Open regulator.



Gas engines



District stations



Commercial users



Regasification



Medium / small industry

Features	Values
Design pressure*	up to 125 PSIG
Ambient temperature*	from -20° F to +150° F
Inlet gas temperature range*	from -4° F to +140° F
Inlet pressure range bpu (MAOP)	from 2 to 75 PSIG
Range of downstream pressure Wd	from 7" W.C. to 10 PSIG
Available accessories	LA Slam shut, IMD (Independent Monitoring Device), IFM (Integral Full Monitor), in-built strainer
Minimum differential pressure	1.75 PSIG
Accuracy class AC	up to 10% gauge
Lock-up pressure class SG	up to 20% gauge
Nominal dimensions DN	1¼", 1½", 2" NPT, 2" ANSI 150 RF
Orifice sizes	Cirval 200 8": ¾" D. Cirval 300 12": 1½"
Connections*	1¼", 1½" and 2" NPT according to ANSI B1.20.1, 2" S.125FF according to ANSI B16.5 available only for Cirval 300

(*) NOTE: 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	Ductile cast iron GS 400-18 ISO 1083
Cover	Die cast aluminum EN AC-AISI 12 UNI EN 1706
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 regulator is designed according to ANSI B109.4 and CSA 6.18 standards. The regulator reacts in opening (Fail Open) according to EN 334. Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



ANSI B109.4



CSA 6.18

Cirval competitive advantages



Compact and simple design



High accuracy



Fail Open plug and seat regulator



Balanced valve design



Top-Entry



Easy maintenance with the cartridge valve design



In-built accessories



Bio-methane compatible and 20% hydrogen blending compatible. Higher blending available on request