Pietro Fiorentini

Dixi

Pressure Regulators

Dixi

is pilot-controlled pressure regulator for medium and low pressure applications this regulator is suitable for use with previously filtered, non corrosive gases.Dixi is normally a fail to close regulator and specificaly will close under the following conditions:
- the main diaphragm breaks
- the diaphragm/s of the pilot/s breaks/s
- the pilot circuit is not fed.

Modular Design

Modular design of pressure regulator Dixi allows the installation of an incorporated slam shut or device for use as “in line monitor” on the same body without changing the face-to-face dimension.
Furthermore the truly “top entry design” allows an easy periodical maintenance without removing body from the line.
The features of Dixi regulator make it a product suitable for any application.
The fast response time makes it ideal for burner or industrial applications or whenever sudden changes of flowrate are part of the process.
Accessories on request:
- Incorporated slum shuh-valve
- In line monitor function
- Silencer;
- Incorporated relief valve.

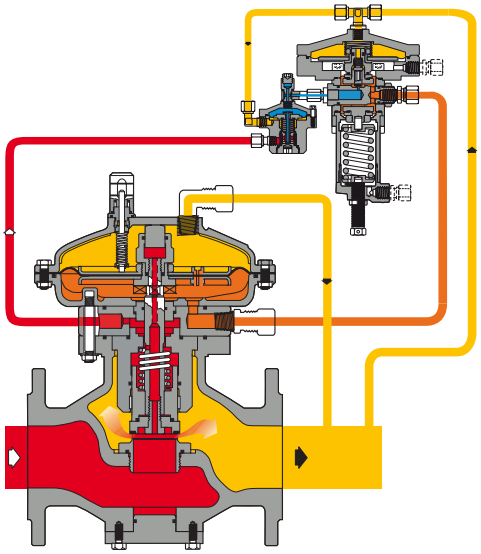


Fig.1

DESIGNED WITH YOUR NEEDS IN MIND

- COMPACT DESIGN
- EASY MAINTENANCE
- TOP ENTRY
- LOW NOISE
- HIGH TURN DOWN RATIO
- HIGH ACCURACY
- LOW OPERATION COST
- LOW OPERATING ΔP

SLAM SHUT — Dixi

This is a device which stops immediately gas flow whenever downstream pressure exeeds given set-point. Device can be actuated also manually.

Incorporated LA Slam shut (see figure 2) can be incorporated in the standard regulator and in the in-line monitor.
The installation of integral Slam Shut valve does not produce any reduction on regulator KG or Cg values.
A further advantage of the incorporated slam-shut valve is that it can be retro fitted at any time on a previously installed DIXI without modifying the regulating unit (only with 4 ways body).
Further the slam-shut can be positioned in four different positions (rotation on its axis) in such way to be fixed in the most apropriated position versus the surrounding encumbrance if any.

The main features of this slam-shut device are:
- design pressure 20 bar for all the components;
- accuracy (AG): ap to 5 for pressure increase, up to 15 for pressure decreasing;
- internal by-pass;
- intervention for over pressure and/or under pressure;
- manual push-button control;
- possibility of pneumatic or electromagnetic remote control;
- compact overall dimensions;
- easy maintenance;
- possibility of application of devices for remote signal (contact or inductive microswitches).

DIXI + SLAM SHUT LA — Dixi

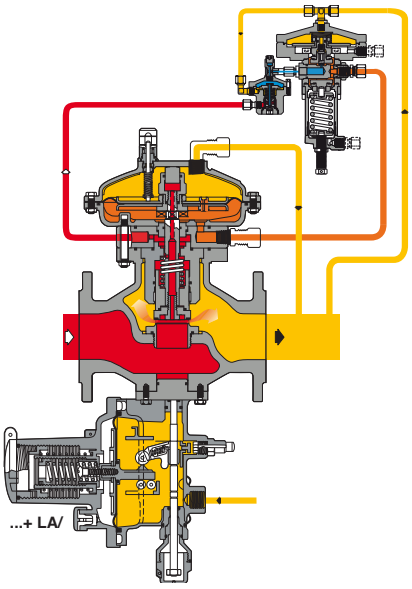


Fig. 2

MAIN FEATURES — Dixi

> Design pressure PS: up to 18,9 bar
> Design temperature up to - 20°C to + 60°C
> Range of inlet pressure bpe: from 0,5 to 16 bar
> Outlet pressure range of Wh: da 0,007 bar a 6 bar (in funzione del pilota installato)
> Minimum differential pressure: 0,1 bar
> Accuracy class AC: up to 2,5
> Lock-up pressure class SG: from 1 to 5 depending on outlet pressure
> Available size DN: 1” - 1”1/2 - 2”
> Threaded connections: class 150 RF according to ANSI B16.5 e PN16 according to ISO 7005

MATERIALS — Dixi

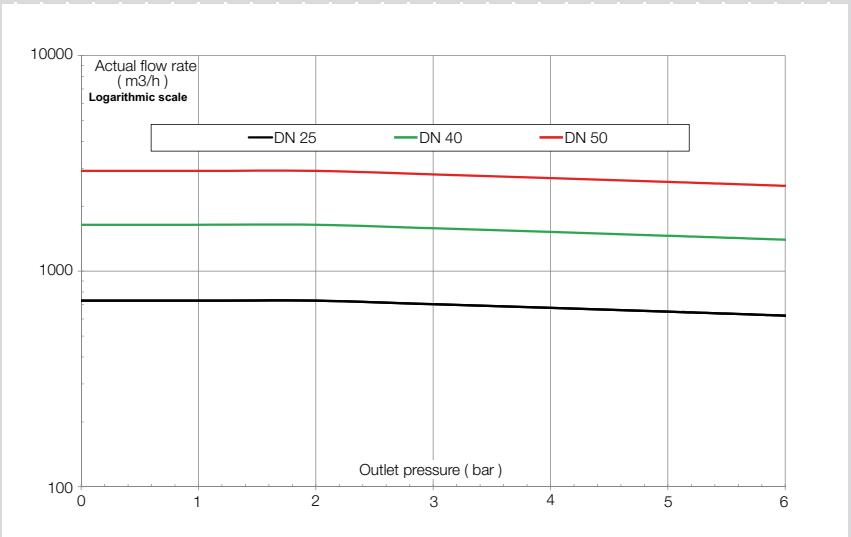
Body	Cast steel ASTM A216 WCB for all sizes Ductile cast iron GS 400-18 ISO 1083
Head covers	Die cast alluminium GDAISL 13FE UNI5079
Valve seat	Steel + vulcanized rubber
Membrana	Rubberized canvas
Seals	Nitril rubber
Fittings	Carbon steel galvanized according to DIN 2353

Coefficient Cg, K_G and K1 — Dixi

Nominal diameter (mm)	25	40	50
Size (inches)	1”	1”1/2	2”
Cg flow coefficient	540	983	1014
KG flow coefficient	567	1034	1066
K1 body shape factor	104	96	96

For sizing formula refer to www.fiorentini.com/sizing

CAUTION:
The graph gives a quick reference of maximum recommended regulator capacity depending on selected size. Values are expressed in actual m3/h of Natural gas (s.g. 0,6): to have the data directly in Nm3/h it is necessary to multiply the value by the outlet pressure value in bar – absolute.



PILOT Dixi

Dixi pressure regulators are equipped with series 200 pilot as listed below
- 201/A control range Wh: 7 mbar to 0,58 bar; (2,8 W.c. to 8.4 Psig)

Pilots may be adjusted manually or remotely

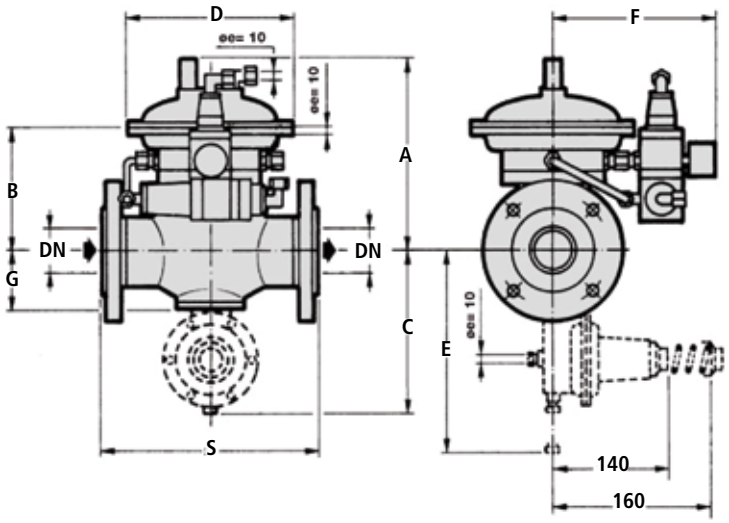
Pilot adjustments Dixi

Pilot type .../A	Manual setting
Pilot type .../D	Electric remote setting control
Pilot type .../CS	Pneumatic remote setting control

Restrictor

The pilot loop is completed with a device called restrictor, external to the pilot.
The restrictor listed below is available:
- **AR 100**: variable restrictor to adjust regulator response time complete with integral filter at the inlet

DIMENSIONS — Dixi



Overall dimensions in mm — Dixi

Tipe	DN	NPS	S	A	B	C	D	E	F	G
Dixi flanged	25	1"	183	230	135	200	200	220	210	80
Dixi flanged	40	1"1/2	223	240	145	200	200	220	210	90
Dixi threaded	50	2"	220	240	145	200	200	220	210	90
Dixi flanged	40	1"1/2	254	240	145	200	200	220	210	90

Weights in KGF — Dixi

Tipo	DN	NPS	Dixi	Dixi con blocco LA/...
Dixi	25	1"	12	13
Dixi	40	1"1/2	14,5	15,5
Dixi threaded	50	2"	20,5	21,5
Dixi flanged			15,5	16,5

Face to face dimensions S according to IEC 534-3 and EN 334

Pietro Fiorentini Solutions

Metering stations

Mereting

Ball valves

Pietro Fiorentini

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