



Dival 600
Pressure Regulators

Pressure regulators

Dival 600

- Dival 600 series pressure regulators are direct acting devices for low and medium pressure applications controlled by a diaphragm and counter spring.
- These regulators are suitable for use with previously filtered, non corrosive gases.

Modular Design

- Modular design of pressure regulator Dival 600 series 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 Dival 600 series regulators 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.
- The high accuracy against any inlet pressure variation makes of Dival 600 series an optimum product also for gas district systems, an application generally where piloted operating regulators are preferred.
- An extremely easy maintenance and a reduced number of parts are the background of low cost operation.
- Accessories on request:
- Incorporated slum shuh-valve
- In line monitor function
- Silencer;
- Incorporated relief valve.

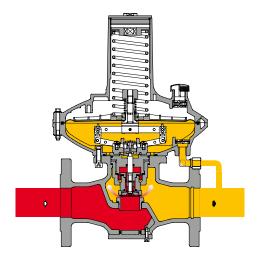


Fig.1

DESIGNED
WITH YOUR
NEEDS IN MIND

- COMPACT DESIGN
- EASY MAINTENANCE
- TOP ENTRY
- FAST RESPONSE TIME
- HIGH TURN DOWN RATIO
- HIGH ACCURACY
- LOW OPERATION COST
- WIDE RANGE OF APPLICATIONS



SLAM SHUT

Dival 600

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 Dival 600 series 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).

DIVAL 600 + SLAM SHUT LA

Dival 600

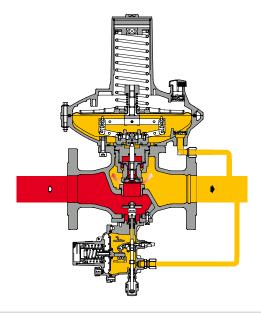
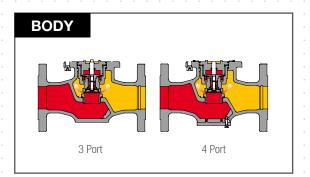


Fig. 2

VERSIONS Dival 600



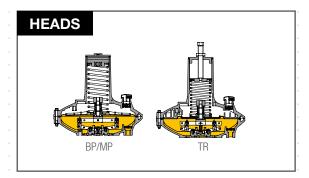


Fig. 3

Fig. 4

INCORPORATED SILENCER

Dival 600

Whenever specific noise limits are required, the silencer allows you to considerably reduce the decibel (dBA) noise emissions during the gas pressure regulators operation.

The Dival 600 pressure regulator can be supplied with an incorporated silencer in either the standard version, with incorporated slam-shut or in line monitor version.

With the built-in silencer the Cg and KG valve coefficients are not affected. Given the modular arrangement of the regulator, the silencer may be retrofitted to both standard Dival 600 version as well as those with incorporated slamshut or monitor version, without any need to piping modification. Pressure reduction and control operate the same manner as in standard version.

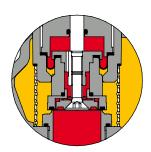
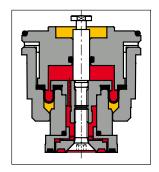


Fig. 5

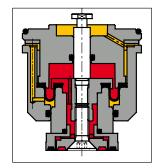
MONITOR VERSION

Dival 600

Dival 600 series functioning as an in-line monitor is a regulator which, in addition to the standard version, has a further mobile assembly balancing device guaranteeing greater accuracy of regulated pressure and therefore an equally precise value for the intervention pressure without risk of interference with main regulator.



Standard regulator



Monitor regulator

Fig. 7



MAIN FEATURES

Dival 600

- -Design pressure PS: up to 20 bar (290 Psig)
- -Design temperature: -20 °C to +60 °C (-4 °F to + 140 °F)
- -Ambient temperature: -20 °C to +60 °C (-4 °F to + 140 °F)
- -Max inlet pressure Pu: 20 bar (290 Psig)
- -Outlet pressure range of Wd:
- DN 25 from 12 to 340 mbar (5"w.c. to 4,9 psig) for control head BP/MP

from 300 to 4200 mbar (4,3 psig to 60,9 psig) for control head TR

DN 40-50 from 12 to 85 mbar (5"w.c. to 34" w.c.) for control head BP

from 80 to 340 mbar (32 w.c. to 4,9 psig) for control head MP

from 300 to 4200 mbar (4,3 psig to 60,9 psig) for control head TR

- -Accuracy class AC: up to 5
- -Lock-up pressure class SG: up to 10
- -Available size DN: 1" (25) 1"1/2 (40) 2" (50)
- -Flanging: class PN 16/25 according to ISO 7005-1, ISO 7005-2; class ANSI 150RF according to ANSI B16.5, ASME B16.42 and class ANSI 125 FF according to ASME B16.1
- -Threaded connections: DN 2" Rp ISO 7-1 or DN 2"NPTF ASME B1.20.1 (only ductile iron)

MATERIALS Dival 600

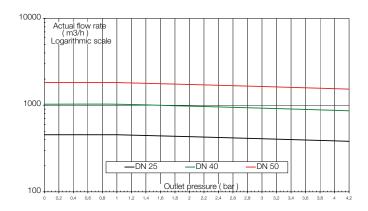
Body	Cast steel ASTM A216 WCB Ductile cast iron GS 400-18 ISO 1083
Head covers	Die cast alluminium EN AC-AISI 12 UNI EN 1706
Diaphgram	Rubberized canvas
Valve seat	Brass
Seals	Nitril rubber

The characteristics listed above are referred to standard products. Special characteristics and materials for specific applications may be supplied upon request.

Coefficient	oefficient Diva						
	ø 280 BP/MP			ø280/TR			
Nominal diameter (mm)	25	40	50	25	40	50	
Size (inches)	1"	1"1/2	2"	1"	1"1/2	2"	
Cg flow coefficient	269	652	781	315	692	770	
KG flow coefficient	283	685	821	331	727	809	
K1 body shape factor	94	94	86	97	95	97	

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.



Slam-shut pressure switches

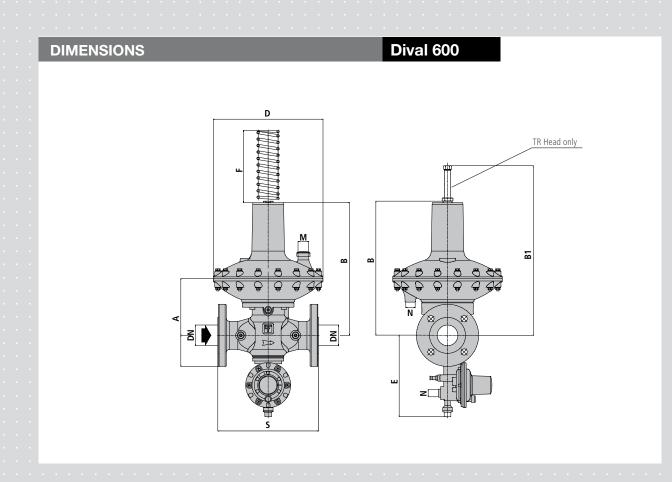
Dival 600

Pressure switch	LA/BP	LA/MP	LA/TR
Set point range for Overpressure (OPSO)	0,030 ÷ 0,180	$0,140 \div 0,450$	$0,25 \div 5,5$
Set point range for Underpressure (UPSO)	0,006 ÷ 0,060	0,010 ÷ 0,240	$0,1 \div 3,5$

Working pressure in bar

TYPICALL INSTALLATION Dival 600 Inlet pressure Outlet pressure





Overall dimensions in mm							Dival 600				
Tipe	DN	NPS	S	Α	В	B1	D	Е	F	M	N
Dival 600	25	1"	183	145	343	433	280	215	200	Rp1/2"	Rp1/4"
Dival 600	40	1"1/2	223	145	343	433	280	215	200	Rp1/2"	Rp1/4"
Dival 600	50	2"	254	145	343	433	280	215	200	Rp1/2"	Rp1/4"
Dival 600	G 2"	2" NPTF	152,4	145	343	433	280	215	200	Rp1/2"	Rp1/4"

Weights in K	GF		Dival 600				
Tipe	DN	NPS	Dival	Dival with slam shut LA/			
Dival 600	25	1"	15	16			
Dival 600	40	1"1/2	17	18			
Dival 600	50	2"	20	21			
Dival 600	G 2"	2" NPTF	18	19			

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

Pietro Fiorentini Solutions



Reducing Stations



Metering



Butterfly Valves



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The data are not binding. We reserve the right to make eventual changes without prior notice.

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