



# Dival 600 Pressure Regulators

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	Dival 600		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
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-	a diaphragm and counter sp		r low and medium pressure applicat corrosive gases.	ions controlled by
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	Modular Design		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	Modular design of the Dival 6 without changing the face-to		a slam shut or an in-line monitor devi	ce in the same body
	The truly "top entry design" a	allows easy periodic maintenance w	ithout removing body from the line.	The features of
	-	nake it a product suitable for any app as it ideal for burner or industrial appl	blication. ications or whenever sudden change	es of flow rate is part
	-		ation makes the Dival 600 series an o	-
	-	pplication generally not suitable for and reduced number of parts lower		
	Accessories on request:	and reduced number of parts lower	operating expenses and labor.	
	Silencer			
	Incorporated relief valve			
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1				
			Fig.1	
	DESIGNED WITH	- COMPACT DESIGN	- HIGH TURN DOWN RATIO	
	YOUR NEEDS IN MIND	- EASY MAINTENANCE - TOP ENTRY	- HIGH ACCURACY - LOW OPERATING COST	
		- FAST RESPONSE TIME	- WIDE RANGE OF APPLICATION	S
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## SLAM SHUT

#### Dival 600

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

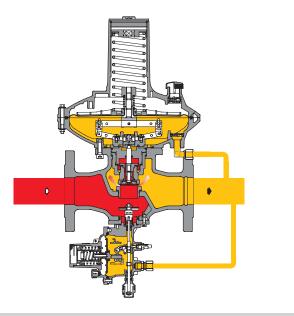
LA Slam shut (see figure 2) may be incorporated in the standard regulator and in the in-line monitor. The regulator with the incorporated slam-shut has Cg and  $K_G$  coefficients equal to those in table 3. A further advantage of the incorporated slam-shut valve is that it can be retrofitted at any time on a previously installed Dival 600 series without modifying the regulating unit (only with 4 way 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 appropriate position versus the surrounding encumbrance if any.

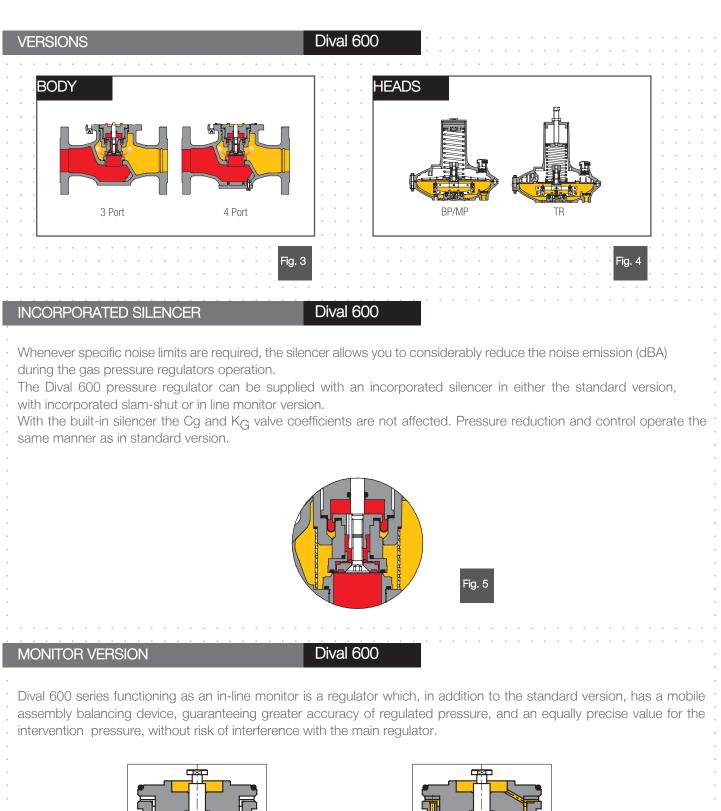
The main features of this slam-shut device are:

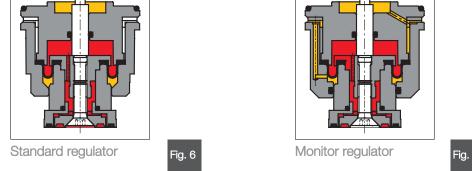
- design pressure 232 PSIG for all the components;
- accuracy (AC): 1% of the pressure set-point for pressure increase; 5% for pressure decreasing;
- internal bypass;
- intervention for over pressure and/or under pressure;
- manual push-button control;
- possibility of pneumatic or electromagnetic remote 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









MAIN FEATURES	Dival 600
-Design pressure PS: up	
-Temperature: Pietro Fic	rentini regulators are suitable for a minimum operating ambient temperature:
	with a Carbon Steel Body with a Cast Iron Body
If the following co	nditions are met:
	as temperature shall be always higher than -4 °F; as shall filtered, clean and without any liquid impurities;
-Max inlet pressure Pu: 2 Outlet pressure range of	
Size 1"	from 5"w.c. to 4.9 PSIG (12 to 340) mbar for control head BP/MP from 119 w.c. to 60.9 PSIG (300 to 4200 mbar) for control head TR from 5" w.c.
Size 1 1/2" - 2"	to 34" w.c. (12 to 85 mbar) for control head BP from 32 w.c. to 4.9 PSIG (80 to 340 mbar) for control head MP from 4,3 PSIG to 60.9 PSIG (300 to 4200 mbar) for control head TR
-Accuracy class AC: up	to 5
-Lock-up pressure class	
	5) - 1 1/2" (DN 40) - 2" (DN 50)
	5 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: S	Size 2" Rp ISO 7-1 or 2"NPTF ASME B1.20.1 (only ductile iron)

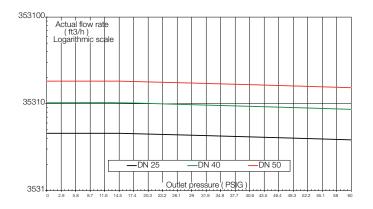
MATERIALS	Dival 600					
Body	Cast steel ASTM A216 WCB					
	Ductile cast iron GS 400-18 ISO 1083					
Head covers	Die cast alluminium EN AC-AISI 12 UNI EN 1706					
Diaphgram Rubberized canvas						
Valve seat	Brass					
Seals	Nitrile rubber					

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

Coefficient			Dival 60	0			
	Ø	280 BP/MP			ø280/TR		
Nominal diameter (mm)	25	40	50	25	40	50	
Size (inches)	1"	11/2"	2"	1"	1 1/2"	2"	
Cg flow coefficient	269	652	781	315	692	770	
KG flow coefficient K1	283	685	821	331	727	809	
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 ft<sup>3</sup>/h of Natural gas (s.g. 21). To have the data directly in Nm<sup>3</sup>/h, it is necessary to multiply the value by the outlet pressure value in PSIG – absolute.



### Slam-shut pressure switches

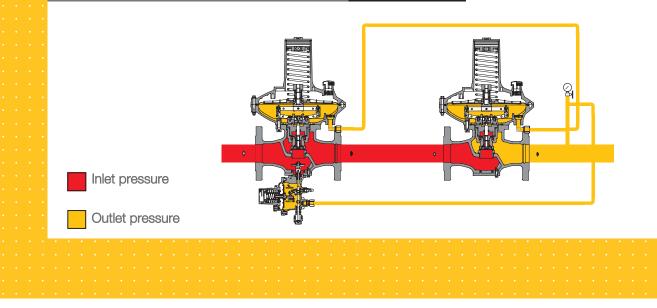
#### Dival 600

Pressure switch		LA/BP Set	LA/MP	LA/TR
1.1				
point range for Overpressure (OPSO)	1	2" w.c 72" w.c.	2 - 6.5	3.6 - 80
		0.411 0.411		
point range for Underpressure (UPSO)		2.4" w.c 24" w.c.	0.14 - 3.5	1.45 - 50.8
Working process in w. c. and PSIG				

Working pressure in w.c and PSIG



## Dival 600

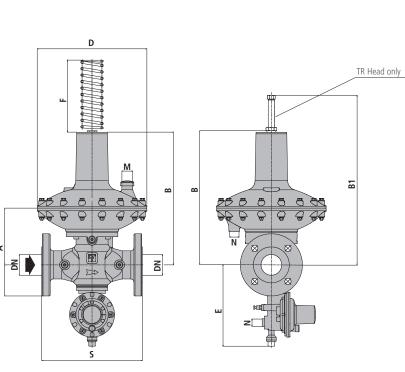




## DIMENSIONS

Dival 600





### Overall dimensions in Inches

Туре	NPS	S	А	В	B1	D	E	F	Μ	Ν
Dival 600	1"	7.20	5.71	13.5	17.04	11.02	8.46	7.87	Rp1/2"	Rp1/4"
Dival 600	1 1/2"	8.78	5.71	13.5	17.04	11.02	8.46	7.87	Rp1/2"	Rp1/4"
Dival 600	2"	9.88	5.71	13.5	17.04	11.02	8.46	7.87	Rp1/2"	Rp1/4"
Dival 600	2" NPT	6	5.71	13.5	17.04	11.02	8.46	7.87	Rp1/2"	Rp1/4"

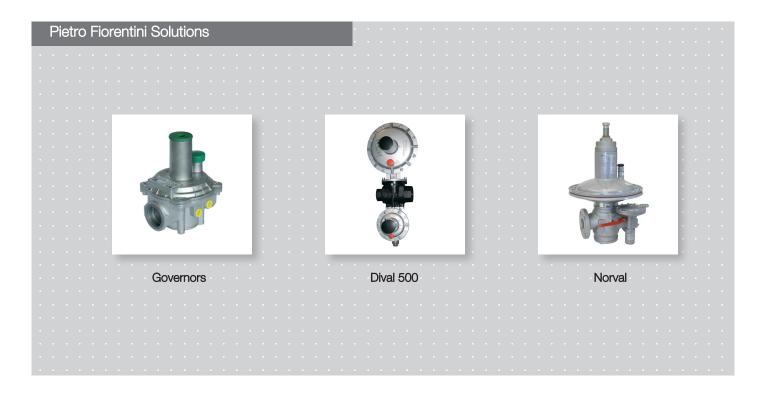
## Weights in pounds

## Dival 600

Dival 600

Туре	NPS	Dival	Dival with slam shut LA/
Dival 600	1"	33.06	35.27
Dival 600	1 1/2"	34.48	39.68
Dival 600	2"	44.09	46.6
Dival 600	2" NPT	39.68	41.89

Face to face dimensions S according to ANSI 150 IEC 534-3 and EN 334





This data is not binding. We reserve the right to make changes without prior notice.

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