



Dival 600 Pressure Regulators

Pressure Regulators					
Dival 600				• •	
Dival 600 series pressure req	julators are direct acting devices for	r low and medium pressure ap	olications controlled by a		
diaphragm and counter sprin	-				
These regulators are suitable	for use with previously filtered, non	corrosive gases.			
				• •	• •
				• •	
Modular Design					
· · · · · · · · · · · · · · · · · · ·					
without changing the face-to-	00 series allows for the addition of a -face dimensions.	a siam shut or an in-line monitor	uevice in the same body		
The truly "top entry design" a	allows easy periodic maintenance wi		ine. The features of Dival		
	a product suitable for any applications it ideal for burner or industrial appli		panaga of flow rate is part		
-	uracy against any inlet pressure varia				
	cation generally not suitable for dire				
 Extremely easy maintenance Accessories on request: 	and reduced number of parts lower	operating expenses and labor.			
• Silencer				• •	• •
Incorporated relief valve					
		3			
		0 0 0			
				• •	• •
	· ·	•		• •	
				• •	
		Fig.1			
DESIGNED	- COMPACT DESIGN	- HIGH TURN DOWN RATION	0		
WITH YOUR NEEDS IN MIND	- EASY MAINTENANCE - TOP ENTRY	- HIGH ACCURACY - LOW OPERATING COST			
	- FAST RESPONSE TIME	- WIDE RANGE OF APPLIC	ATIONS		



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

Fig. 2





Fig. 5

MONITOR VERSION

Dival 600

Fig. 6

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





Fig. 7

	Dival 600
IAIN FEATURES	
Design pressure PS: u	p to 290 PSIG (20 bar)
	4° F to + 140° F (-20° C to +60° C)
	-4° F to + 140° F (-20° C to +60° C)
Max inlet pressure Pu:	290 PSIG (20 bar)
Outlet pressure range	of Wd:
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
Size 1 1/2" - 2"	from 5"w.c. 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 clas	s SG: up to 10
	25) - 1 1/2" (DN 40) - 2" (DN 50)
	25 according to ISO 7005-1, ISO 7005-2; class ANSI 150RF 6.5, ASME B16.42 and class ANSI 125 FF according to ASME B16.1

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 600)			
	Ø	280 BP/MF)		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	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 ft³/h of Natural gas (s.g. 21). To have the data directly in Nm³/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	LA/MP	LA/TR
Set point range for Overpressure (OPSO)	12" w.c 72" w.c.	2 - 6.5	3.6 - 80
Set point range for Underpressure (UPSO)	2.4" w.c 24" w.c.	0.14 - 3.5	1.45 - 50.8
Working pressure in wid and PSIG			

Working pressure in w.c and PSIG



Dival 600





DIMENSIONS

Dival 600



Overall dimensions in Inches

Туре	NPS	S	Α	В	B1	D	Е	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	266.76
Dival 600	2" NPT	39.68	41.89

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

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