

GAS REGULATOR

燃气减压阀



 **GASTECH**[®]
Natural Gas Equipment Technologies

 **JIA**

RL/ RLS Series

RL/RLS 系列

Direct acting Gas Pressure Regulator with
Incorporated Direct-acting SSV According to
2014/68/EU

根据 2014/68/EU , 直接式和 集成 SSV 的减压阀

产品描述

RL/RLS系列弹簧加载、隔膜控制、平衡阀设计调压器适用于低、中出口压力。RL/RLS 系列调压器配有内部导管，并预设为可选连接到客户提供的外部导管。特殊的调节器设计与平衡阀相结合导致：

- * 高流量，
- * 高精度，即使在大流量的状态下，
- * 减少响应时间，
- * 在零流量时没有内漏
- * 无需从管道上拆除做定期维护。

PRODUCT DESCRIPTION

The RL/RLS series of spring loaded, diaphragm controlled, balanced valve design regulators are suitable for low and medium outlet pressure. The RL/RLS series regulators are supplied with internal sensing lines and are preset for an optional connection to an external sensing line by the customer. The special regulator design combined with a balanced valve results in:

- * High flow rate coefficient,
- * High accuracy, even at maximum flow rates,
- * Reduced response times,
- * No internal leakage at zero flow rate,
- * Periodical maintenance without disassembling the body from the pipework,

Suitable for gas pressure regulator all small and medium capacity boiler plant (Hot water boiler, steam boiler, hot oil heaters, etc...)

可用于各种民用加热行业，锅炉、热水锅炉、导热油炉等。



Suitable for process combustion system and all pre-burner gas trains

可用于各种工业过程加热的燃烧系统中。



RL性能参数/ RL CHARACTERISTIC

Inlet pressure Max. 最大入口压力	RL 1 bar , RLC 0.5 bar
Type of Fluid 介质	Groups 1 and 2 according to PED 97/23/EC
Diameter 接口尺寸	1/2" – 2" ISO 7/1, DN65 – DN150 ISO 7005
Inlet Pressure bPu 最小压差	RL Serie P2+30mbar up to 1bar RLxxC 20mbar up to 500mbar
Outlet Pressure Range Wd 出口压力	10 - 350 mbar
Material 材料	Body AISi - Cover AISi - Diaphragms and Sealing Parts NBR, Orifice Brass
Operating Temperature 运行温度	-20°C / +60°C
Fail Mode 故障模式	Fail to Open 故障后全开

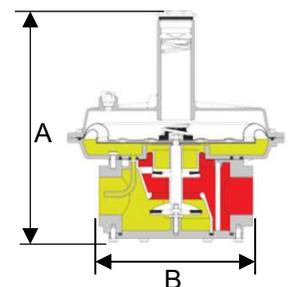
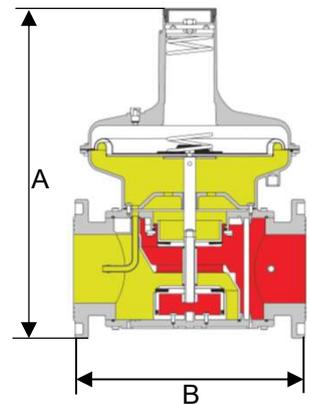


 单位mm
All dimensions in mm

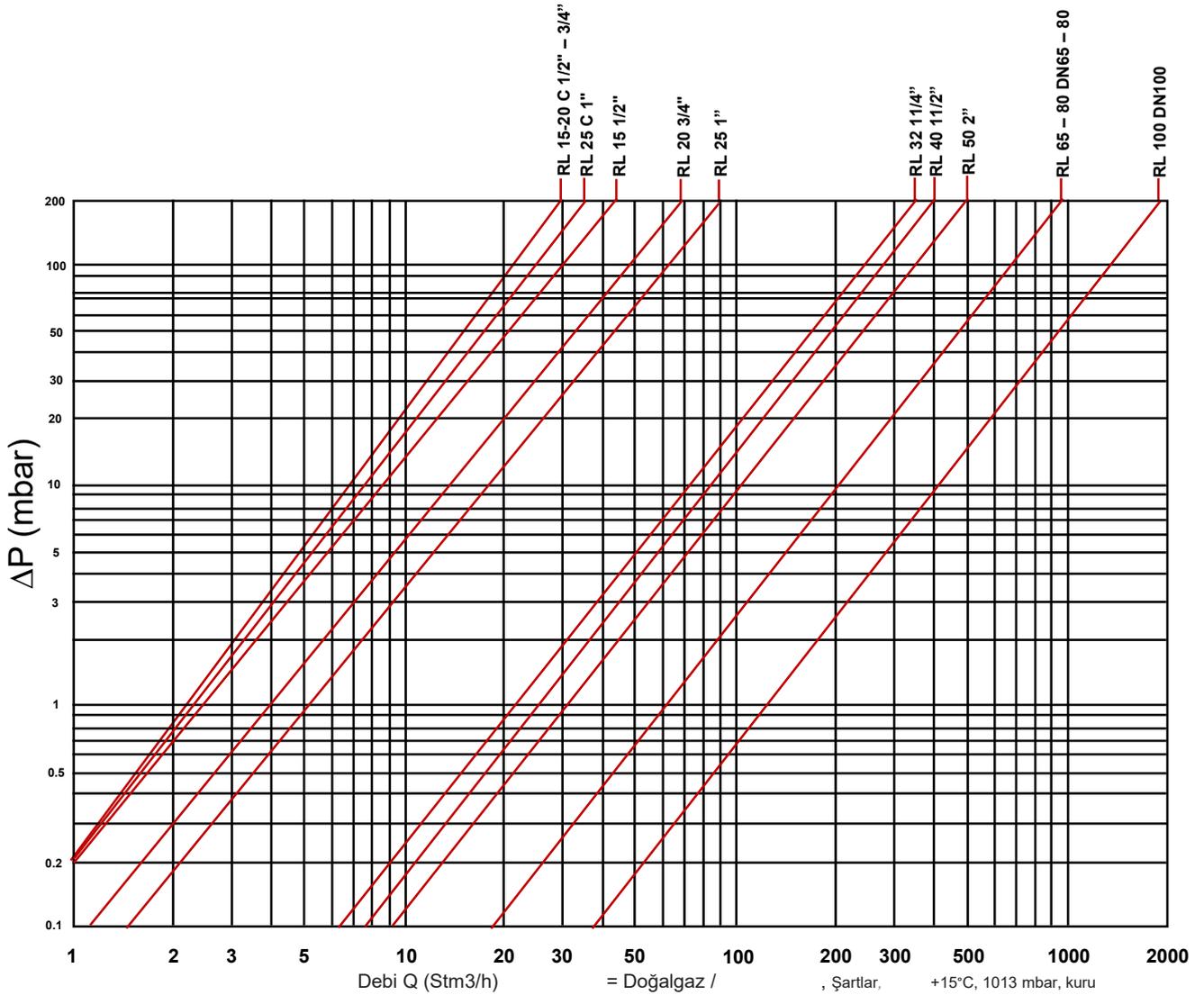
尺寸和重量

RL REGULATOR DIMENSIONS AND WEIGHTS

型号 Code	接口尺寸 Connec.	A	B	过滤面积 Alan mm ²	Kg
RL 15 C	Rp. 1/2"	120	152	4560	0.7
RL 20 C	Rp. 3/4"	120	152	4560	0.7
RL 25 C	Rp. 1"	120	152	4560	0.7
RL 15	Rp. 1/2"	120	194	2810	1.3
RL 20	Rp. 3/4"	120	194	2810	1.3
RL 25	Rp. 1"	120	194	2810	1.3
RL 32	Rp. 1 1/4"	160	245	16800	3.2
RL 40	Rp. 1 1/2"	160	245	16800	3.2
RL 50	Rp. 2"	160	245	16800	3.2
RL 65	DN65	290	465	39250	12.1
RL 80	DN80	310	470	39250	12.5
RL100	DN100	350	504	76250	17.7



流量曲线/ FLOW RATE DIAGRAM



其他气体的流量/ Flow with Other Gases

以上表格是基于天然气的标况流量在密度0.61和温度15°C时
 换算其他气体的流量见一下公式。

*In the tables above, the flow is in (n)m³/h natural gas
 with a density 0.61 and temperature 15°C. To convert to other
 gas flow,
 using the following formula:*

$$Q \text{ (Scm/h Naturalgas)} \times Fc = Q \text{ (Scm/h Xgas)}$$

举例 / **Example:**

$$Q \text{ (Scm/h Naturalgas)} \times 0.78 = Q \text{ (Scm/h Air)}$$

$$1 \text{ Scm/h Naturalgas} = 0.78 \text{ Scm/h Air}$$

换算值 Correction Factor Fc at 15°C

Propane	0.64
Butane	0.55
Oxygen	0.76
Air	0.78
Nitrogen	0.81
Biogas	0.85
Towngas	1.23
Hydrogen	3.04

RLS性能参数 / CHARACTERISTIC

Inlet pressure Max. 最大入口压力	1 bar
Type of Fluid 介质	Groups 1 and 2 according to PED 97/23/EC
Diameter 接口尺寸	1/2" – 2" ISO 7/1
Inlet Pressure bPu 入口压力	50 mbar up to 1bar
Outlet Pressure Range Wd 出口压力	8 - 450 mbar
Minimum ΔP 最小压差	P2+30mbar
Material 材质	Body AlSi - Cover AlSi - Diaphragms and Sealing Parts NBR, Orifice Brass
Operating Temperature 运行温度	-20°C / +60°C
Fail Mode故障模式	Fail to Open 故障后全开

SSV 切断性能参数 / CHARACTERISTIC

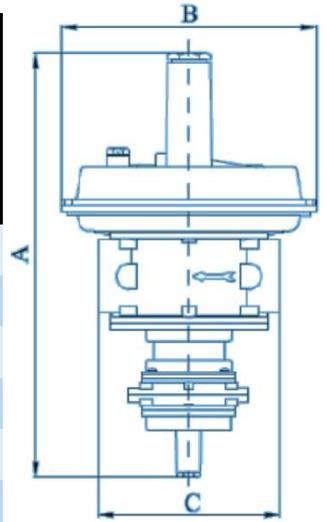
Response Time 响应时间	< 2 s
Max. Pressure Set Range 超压设定压力	25 – 360 mbar
Min. Pressure Set Range 欠压设定压力	10 – 320 mbar
Material 材质	Cover AlSi - Diaphragms and Sealing Parts NBR, Orifice Brass
Operating Temperature 运行温度	-20°C / +60°C



 Tüm ölçüler mm
All dimensions in mm

尺寸和重量 RLS REGULATOR DIEMENSIONS AND WEIGHTS

型号 Code	接口尺寸 Connec.	A	B	C	D	E	过滤面积 Alanı mm ²	Kg
RL 15 S	Rp. 1/2"	325	140	120	136	122	7682	1.9
RL 20 S	Rp. 3/4"	325	140	120	136	122	7682	1.9
RL 25 S	Rp. 1"	325	140	120	136	122	7682	1.9
RL 32 S	Rp. 1 1/4"	327	220	160	225	-	10354	3.2
RL 40 S	Rp. 1 1/2"	327	220	160	225	-	10354	3.2
RL 50 S	Rp. 2"	340	220	160	225	-	13845	3.3



标牌ETIKET / LABELING

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PRODUCT TYPE :	RL25S	P Set :	2 mbar
LOT. SERIAL NO :	20236-2015	Ac-Sg-% :	10% - 30 - 10%
CON. DIA. :	Rp 1"	W :	8-450 mbar
Pg max. :	1 bar	Wao-Wau :	30-450 / 5-150 mbar
PTest :	65 bar	Qmin-Qmax :	0 - 34 Sm ³ /h
Des. Temp. :	-20 C +60 C		
Filt. Eff. :	50 μ		

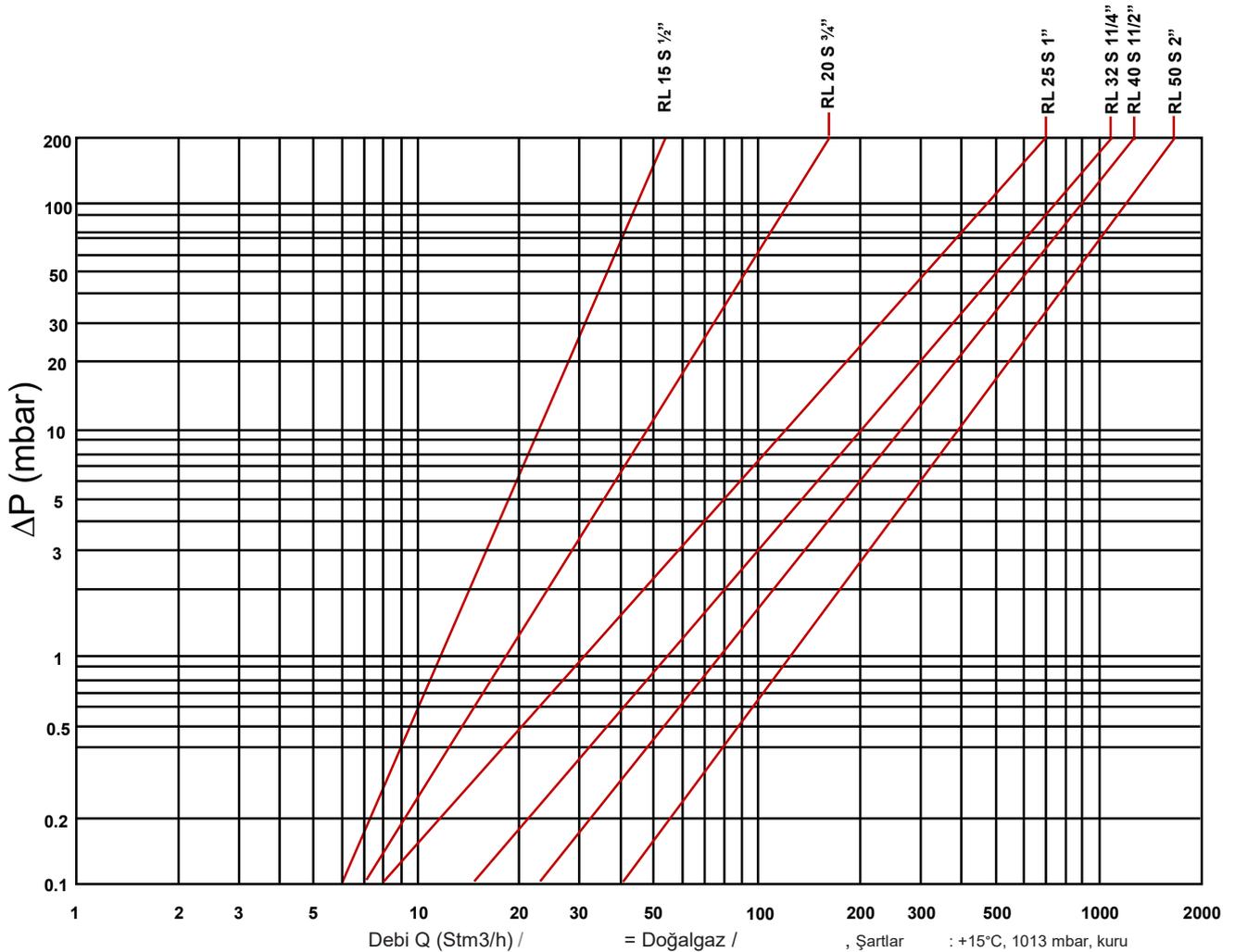


按装方向

MOUNTING POSITION



流量曲线/ FLOW RATE DIAGRAM



其他气体的流量/ Flow with Other Gases

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换算值 Correction Factor Fc at 15°C

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Towngas	1.23
Hydrogen	3.04

弹簧尺寸/ SPRING DIAMETER

型号MODEL TYPE	口径 CONNECTION SIZE	弹簧范围 SETTING RANGE	尺寸 SPRING DIEMENSIONS d x De x L x t
RL 15 C - 20 C - 25 C	1/2"	13 ÷ 30	1,3x17x55x8
	3/4"	20 ÷ 70	1,3x17x70x11
	1"	60 ÷ 180	2x17x54x9
RL 15 - 20 - 25	1/2"	9 ÷ 28	1,5 x 29 x 85 x 10
	3/4"	18 ÷ 40	1,6 x 29 x 115 x 12
		40 ÷ 110	2,2 x 29 x 100 x 12
	1"	110 ÷ 150	2,5 x 29 x 140 x 18,5
		150 ÷ 200	2,5 x 29 x 155 x 16
RL 32 - 40 - 50	1 1/4" 1 1/2" 2"	8 ÷ 13	1,6 x 29 x 115 x 12
		13 ÷ 23	2 x 29 x 140 x 16
		20 ÷ 36	2,2 x 29 x 140 x 18,5
		33 ÷ 58	2,5 x 29 x 155 x 16
		55 ÷ 100	3 x 29 x 140 x 18
		90 ÷ 190	3,5 x 29 x 125 x 14
RL 65 - RL 80	DN65 DN80	7 ÷ 18	4 x 66,5 x 155 x 16
		13 ÷ 27	4,5 x 70 x 200 x 14,5
		22 ÷ 50	4,5 x 70 x 200 x 14,5
		50 ÷ 130	5 x 70 x 200 x 13,5
		110 ÷ 200	6 x 70 x 200 x 10,5
RL 100	DN100	7 ÷ 16	4 x 66,5 x 155 x 16
		15 ÷ 27	4,5 x 70 x 200 x 14,5
		27 ÷ 55	5 x 70 x 200 x 13,5
		55 ÷ 130	6 x 70 x 200 x 10,5
		130 ÷ 200	6 x 70 x 200 x 10,5 + 5,5 x 54,5 x 195 x 12,5


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