

RFD600

燃气调压器



TECHNICAL BROCHURE

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Who we are

We are a global organization specialized in designing and manufacturing technologically advanced solutions for natural gas treatment, transmission and distribution systems.

We are the ideal partner for operators in the Oil & Gas sector, with a business offer that goes across the whole natural gas chain.

We are in constant evolution to meet our customers' highest expectations in terms of quality and reliability.

Our aim is to be a step ahead of the competition, with customized technologies and an after-sale service program undertaken with the highest grade of professionalism.



Pietro Fiorentini advantages



Localised technical support



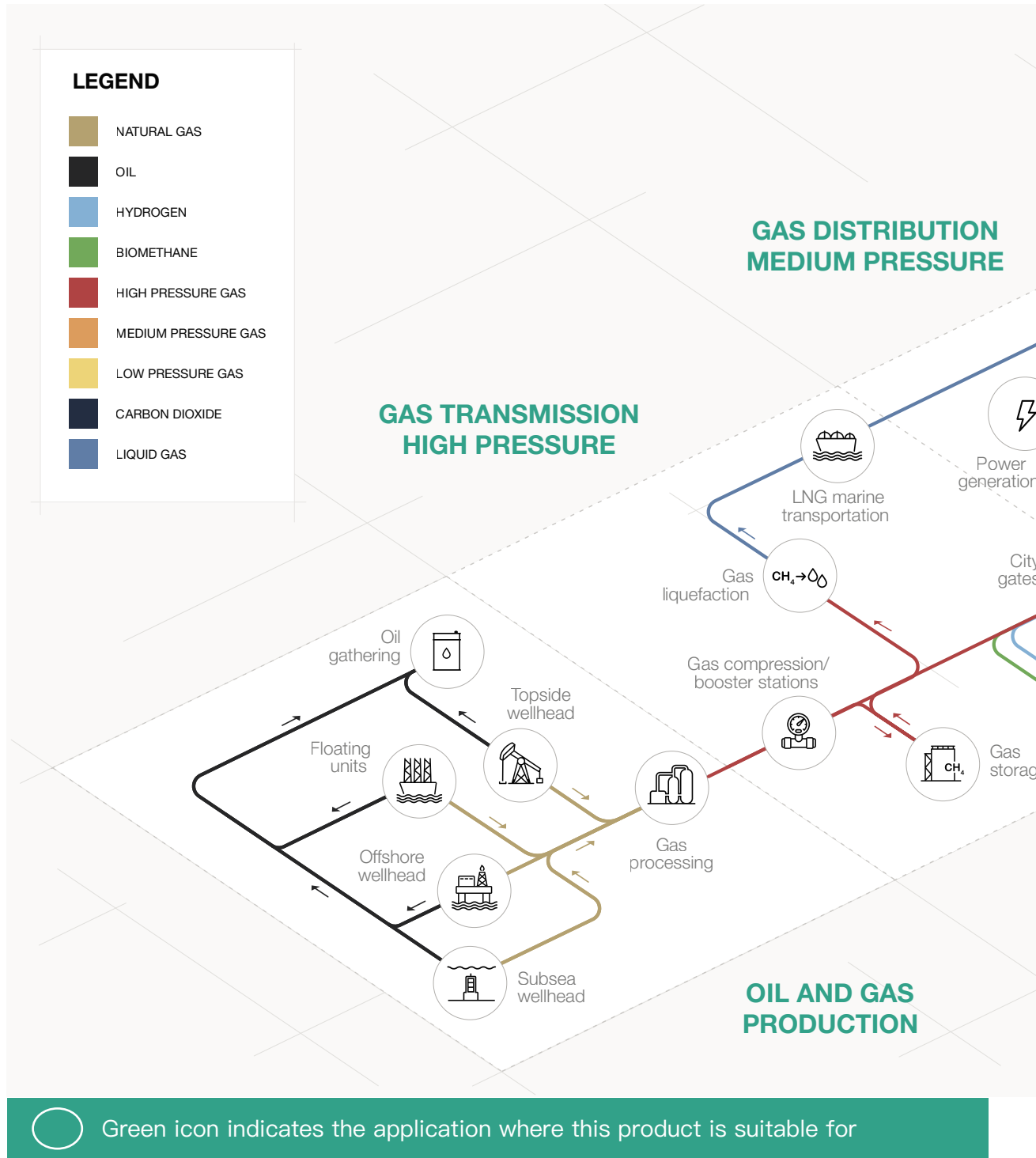
Experience since 1940



We operate in over 100 countries



Area of Application



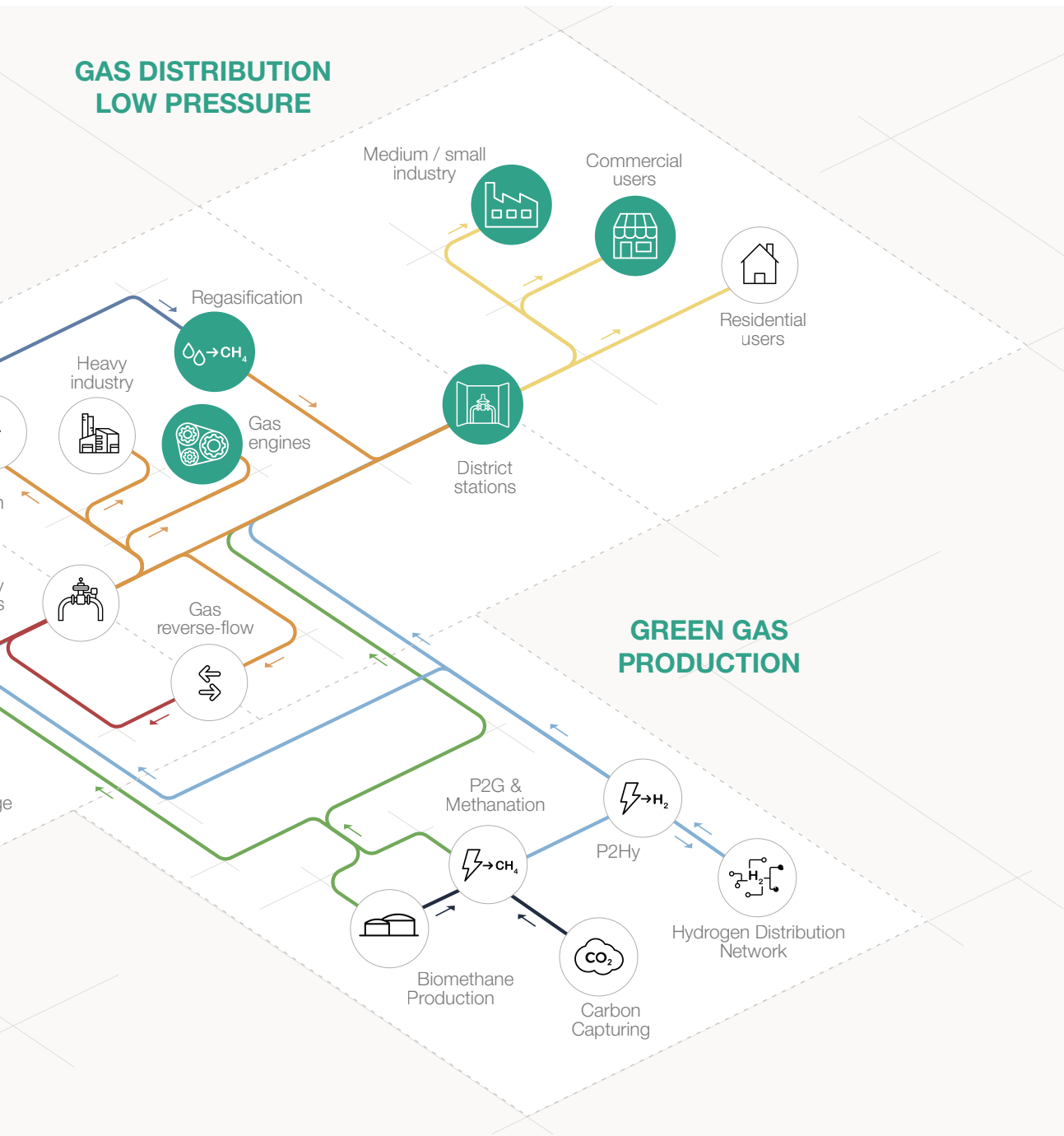
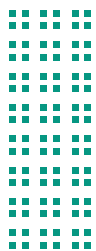


Figure 1 Area of Application Map



Introduction

RFD600 系列调压器是弹簧控制的直接作用式调压器，适用于中、低压燃气调压，适用于经过滤净化的非腐蚀性气体，例如天然气。

除用于输配管网及燃具供气外，由于其结构简单，响应迅速，可靠性高等优点，还特别适用于流量剧变，上游压力常有波动的用户（锅炉，燃气炉等）。

按照国标GB27790-2020中工作原理中的失效状态分类，RFD600 调压器属于失效开启式调压器。

“顶部嵌入式结构”设计，可方便地进行在线维修，不需要从管网中拆卸调压器。

可加装附件：

- 内置切断单元；
- 内置放散单元。

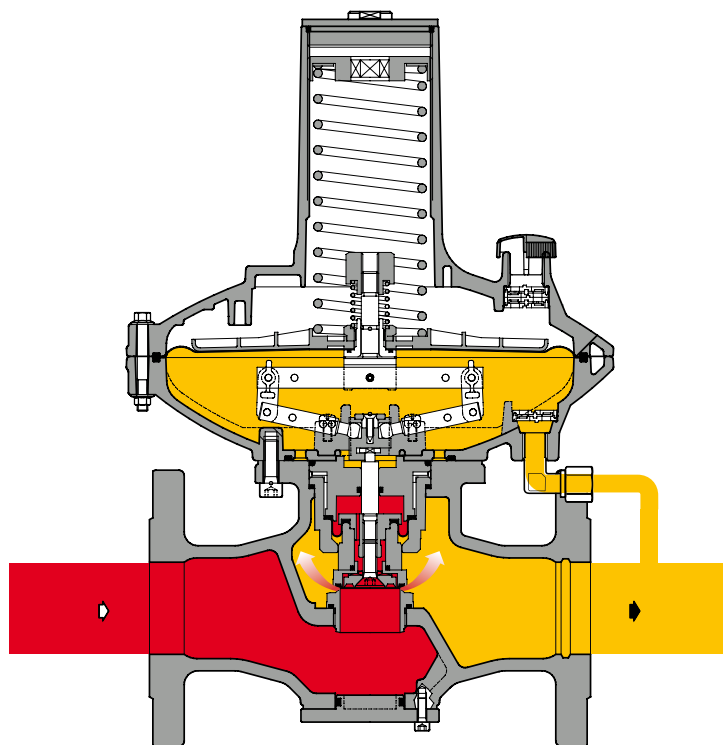
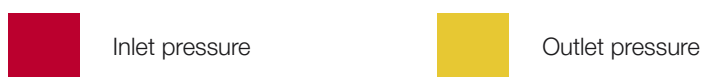


Figure 2 RFD600-标准版












功能特性

Features	Values
设计压力(DP)*	0.5 MPa
最大进口压力	0.4 MPa
下游压力范围	DN25 BP 从2 kPa 至 8 kPa ; MP从8.1 kPa 至 50 kPa DN50 BP 从2 kPa 至 8 kPa ; MP从8.1 kPa 至 50 kPa
设计温度	-20 °C 至 +60 °C
工作温度	-20 °C 至 +60 °C
压精度 AC	10
关闭压力精度 SG	20
流量	DN25 天然气的流量可达 300 Sm ³ /h DN50 天然气的流量可达 800 Sm ³ /h

(*) REMARK: Different functional features and/or extended temperature ranges available on request. Stated temperature ranges are the maximum for which the equipment's full performance, including accuracy, are fulfilled. Standard product may have a narrower range.

Table 1 功能特性

RFD600 competitive advantages

-  Balanced
-  Top Entry
-  Works with low differential pressure
-  Easy maintenance
-  High precision
-  Integrated optionals
-  Fail Open plug and seat regulator
-  Biomethane compatible and 20% Hydrogen blending compatible.
Higher blending available on request
-  1:200 High turn down ratio



材料 and Approvals

Part	Materials
阀体	球墨铸铁 GS400-18
阀盖	ADC12
皮膜	橡胶布
阀座	黄铜
密封件	NBR

REMARK: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.

Table 2 Materials

Construction Standards and Approvals

RFD600 regulator is designed according to the European standard EN 334.
The regulator reacts in opening (Fail Open) according to EN 334.

The product is certified according to European Directive 2014/68/EU (PED).
Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 334



PED-CE

典型安装图

按照下图推荐的方式安装，使调压器的运行性能更好。

下游直线管路

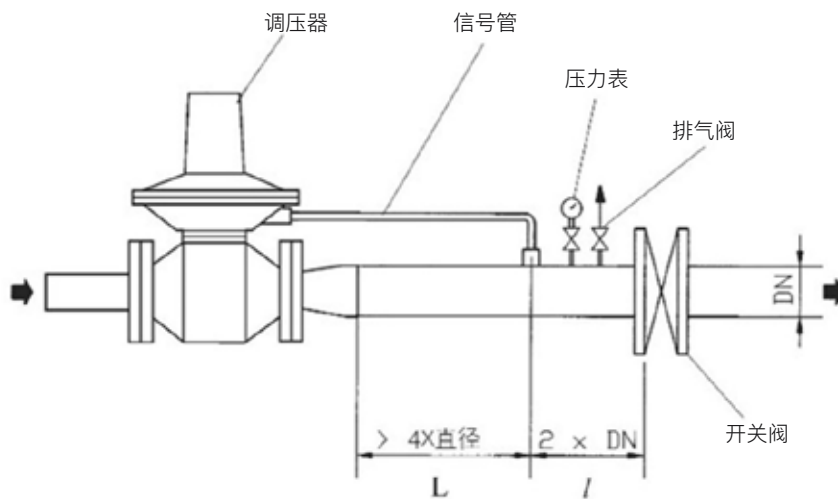


Figure 3 RFD600 in line installation

下游直角管路

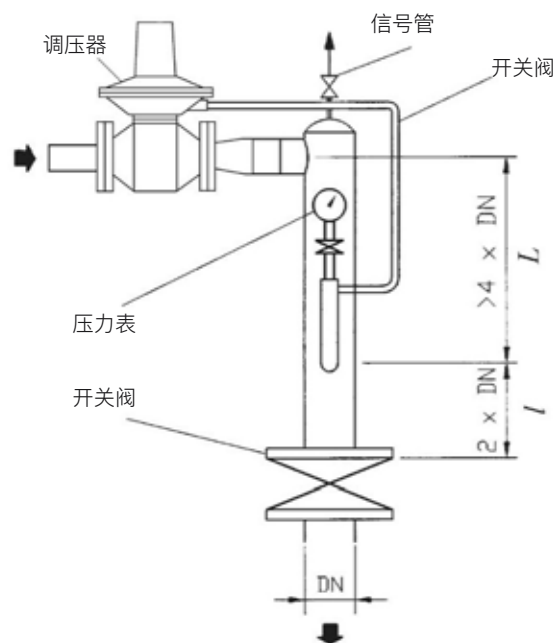


Figure 4 RFD600 right angle installation



模块化附件

RFD600 系列调压器是高度模块化设计，可以在标准版产品上加装附件和直接更换部件。调压器安装以后，如需要增加附件或更换部件，不用拆卸管路中设备就可以在线安装。

切断单元模块 LE600

这是一种安全装置，当某些故障引起调压器出口压力达到与设定的介入值时，它立即自动截断气流阻止燃气继续流向下游，从而保障用户安全。需要时也可手动操纵该装置截断气流。

考虑到安全因素，切断单元的重新启动由手动完成，内置旁通可以使复位更方便。紧急切断单元可用于超压切断，通过调压弹簧来调整设定值：顺时针旋转调节环来增大设定值，逆时针旋转来减小设定值。

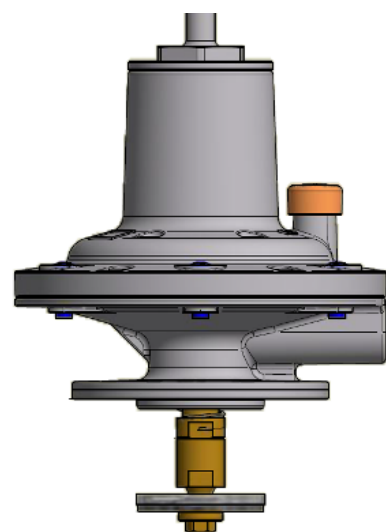


Figure 5 LE600 - standard version

LE600特性

Features	Values
设计压力 (DP)*	0.5 MPa
切断压力精度等级 AQ	10
设定压力范围	DN25 BP 从3.2 kPa至 16 kPa ; MP从10.1 kPa至80 kPa DN50 BP from 3.2 kPa to 16 kPa MP from 10.1 kPa to 80 kPa

Table 3 LE600 materials

- 内置旁通
- 超压切断

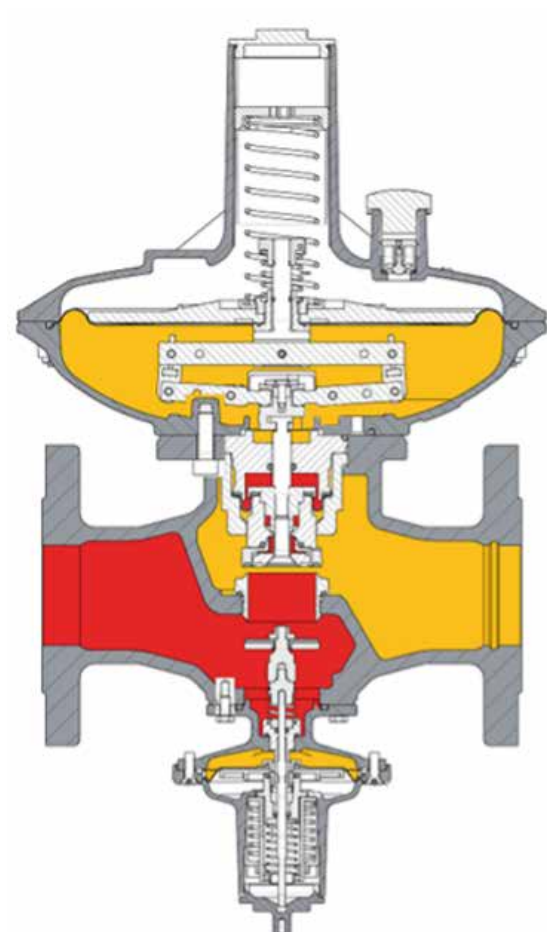


Figure 6 RFD600 with slam shut LE600



Weights and Dimensions

RFD600

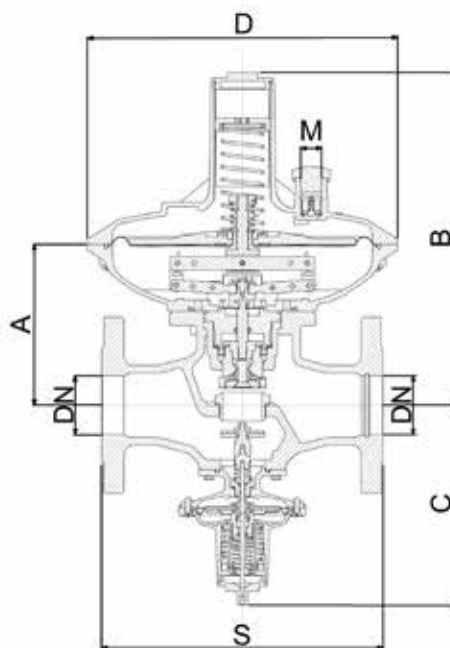


Figure 7 RFD600 dimensions

Weights and Dimensions (for other connections please contact your closest Pietro Fiorentini representative)				
DN NPS	25 1"		50 2"	
	[mm]	pollici	[mm]	pollici
S	183		254	
A	145		145	
B	300		300	
C	180		180	
D	280		280	
M	Rp 1/2"		Rp 1/2"	
Connections	Øe 10 x Øi 8 (dimensionamento imperiale su richiesta)			
Peso	Kg	lbs	Kg	lbs
RFD600	13		18	

Table 4 RFD600 weights and dimensions

RFD600 + LE600

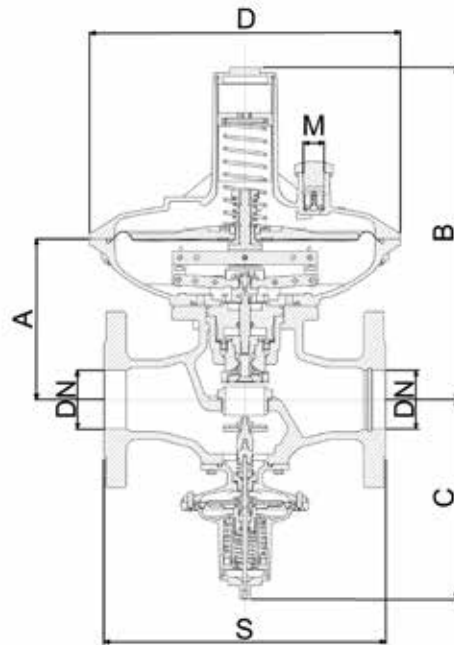


Figure 8 RFD600 + LE600 dimensions

Weights and Dimensions (for other connections please contact your closest Pietro Fiorentini representative)				
DN NPS	25 1"		50 2"	
	[mm]	pollici	[mm]	pollici
S	183		254	
A	145		145	
B	300		300	
C	180		180	
D	280		280	
M	Rp 1/2"		Rp 1/2"	
Connections	Øe 10 x Øi 8 (dimensionamento imperiale su richiesta)			
Peso	Kg	lbs	Kg	lbs
RFD600	13		18	

Table 5 RFD600 + LE600 weights and dimensions



Customer Centricity

Pietro Fiorentini is one of the main Italian international companies with a high focus on product and service quality.

The main strategy is to create a stable long-term oriented relationship, putting the customer's needs first. Lean management and thinking and customer centricity are used to improve and maintain the highest level of customer experience.



Support

One of Pietro Fiorentini's top priorities is to provide support to the client in all phases of project development, during installation, commissioning and operation. Pietro Fiorentini has developed a highly standardized intervention management system, which helps to facilitate the entire process and effectively archive all the interventions carried out, drawing on valuable information to improve the product and service. Many services are available remotely, avoiding long waiting times or expensive interventions.



Training

Pietro Fiorentini offers training services available for both experienced operators and new users. The training is composed of the theoretical and the practical parts, and is designed, selected and prepared according to the level of use and the customer's need.



Customer Relation Management (CRM)

The centrality of customer is one of the main missions and vision of Pietro Fiorentini. For this reason, Pietro Fiorentini has enhanced the customer relation management system. This enables to track every opportunity and request from Customer in one single point and make free the information flow.



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