

RFN800

燃气调压器



TECHNICAL BROCHURE

Pietro Fiorentini S.p.A.

Via E.Fermi, 8/10 | 36057 Arcugnano, Italy | +39 0444 968 511
sales@fiorentini.com

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

RFD600_technicalbrochure_CHN_revA

www.fiorentini.com

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



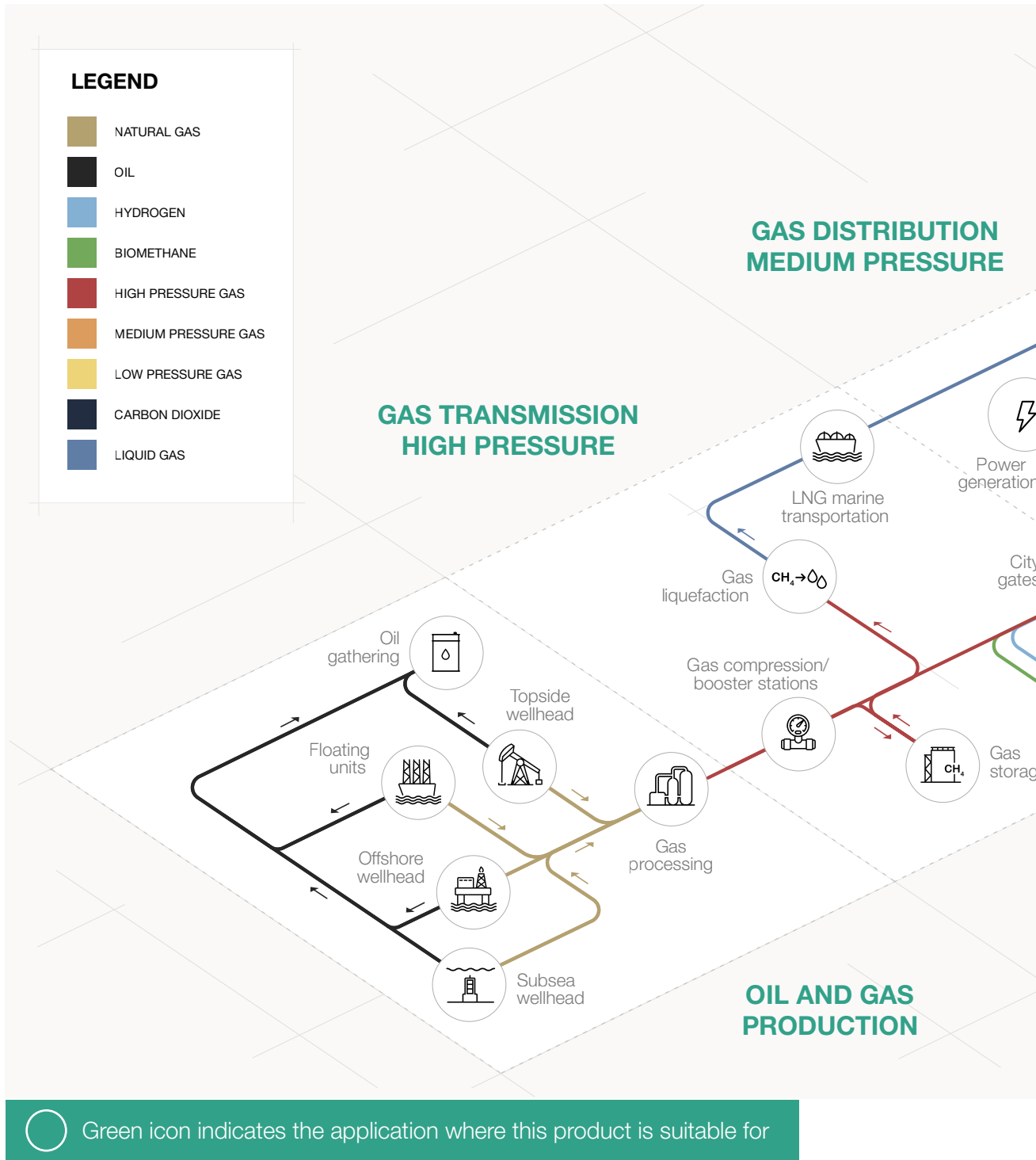
Experience since 1940



We operate in over 100 countries



Area of Application



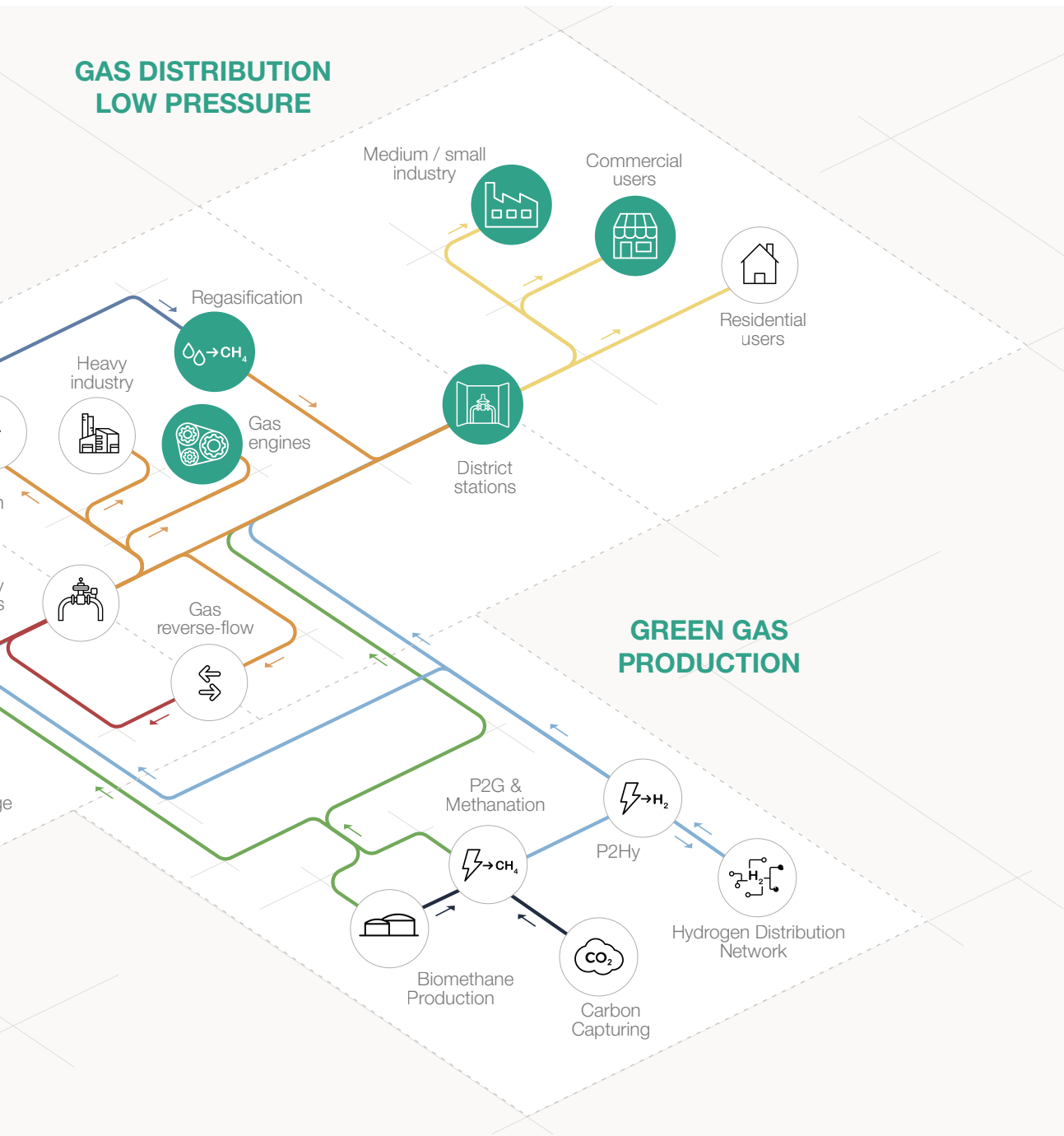


Figure 1 Area of Application Map

Introduction

RFN800 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，**RFN800** 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。

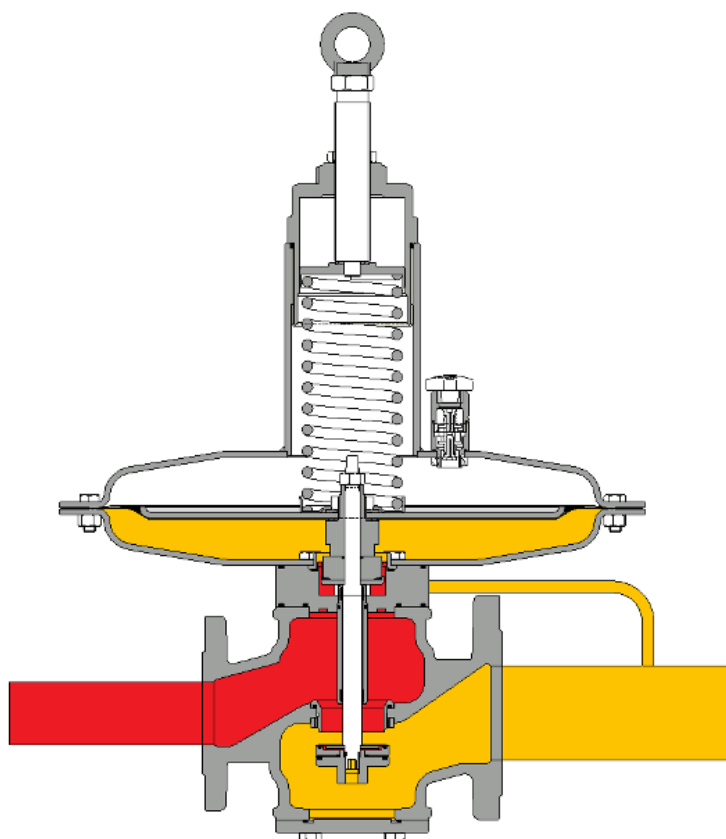


Figure 2 RFN800



Inlet pressure



Outlet pressure


功能特性


Features	Values
最大进口压力	0.4 MPa
下游压力范围	From 2 up to 50 kPa
工作温度	From -20 °C to +60 °C
压精度 AC	10
关闭压力精度 SG	20
流量 (NG)	DN 50x50: 800 Sm ³ /h DN 50x80: 1200 Sm ³ /h DN 80x80: 2000 Sm ³ /h DN 100x100: 3000 Sm ³ /h
公称压力PN	UNI PN16


(*) 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 Features


RFN800 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
- 

High turn down ratio



材料 and Approvals

Part	Materials
阀体	球墨铸铁 GS400-18
阀盖	Q275B
皮膜	橡胶布
阀座	不锈钢
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

模块化附件

RFN800 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 SN800

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。

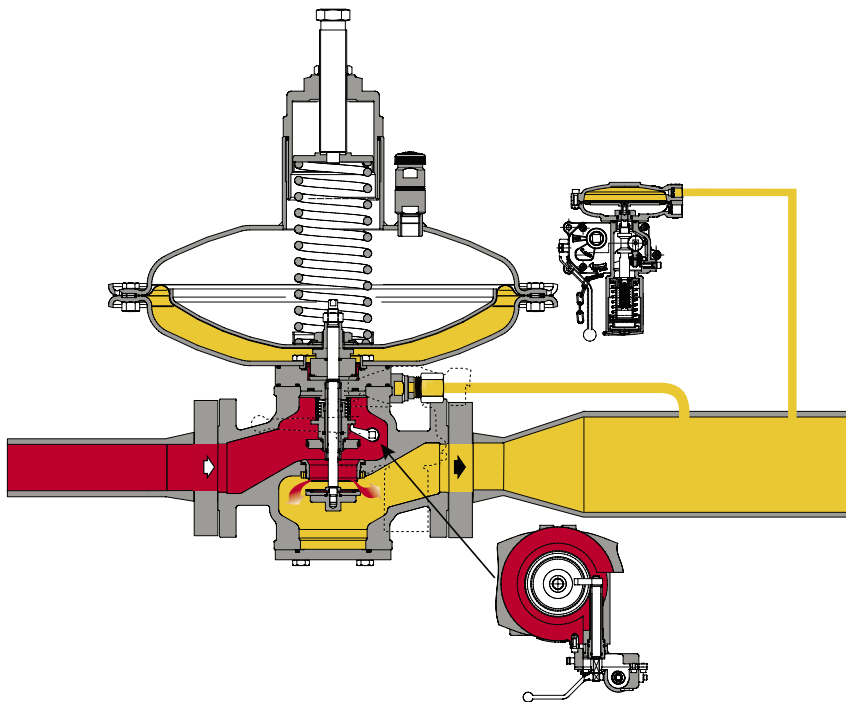


Figure 3 RFN800 with SN800

设定值范围

调压器出口压力范围由安装头部尺寸决定。下表中归纳了不同头部和口径对应的调压范围，单位[kPa]。

连接尺寸DN mm	50x50	50x80	80x80	100x100
Ø 495	2-50	2-50	8.1-50	10.6-50
Ø 630	-	-	2-8	2-10.5

Table 3 SN800 pressure ranges

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。

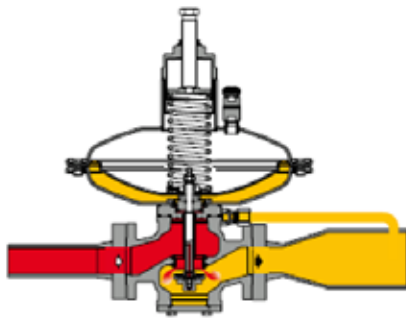


Figure 5 RFN800 in standard position

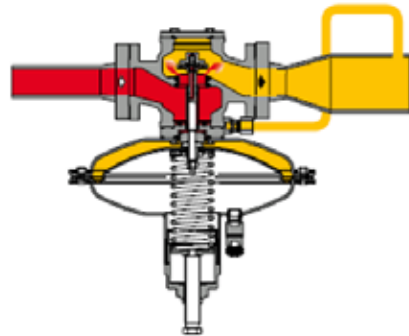


Figure 6 RFN800 in reverse position

下游直线管路

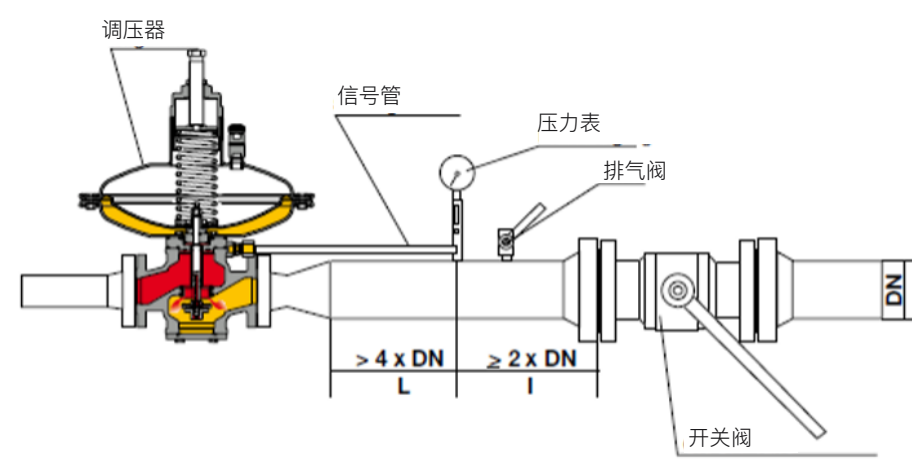


Figure 4 RFN800 in line installation

下游直角管路

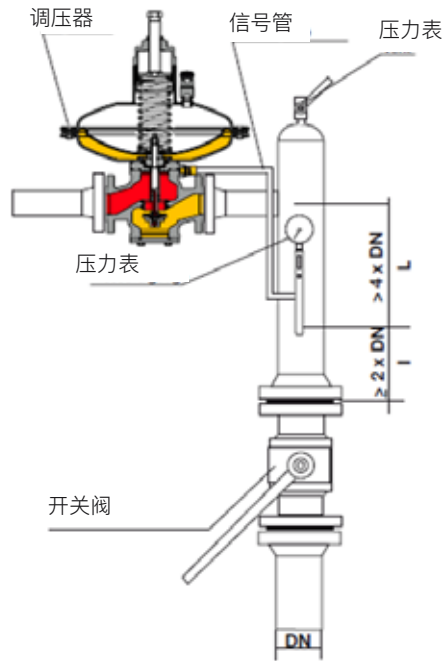


Figure 7 RFN800 right angle installation

RFN800+SN800 带切断单元的调压器

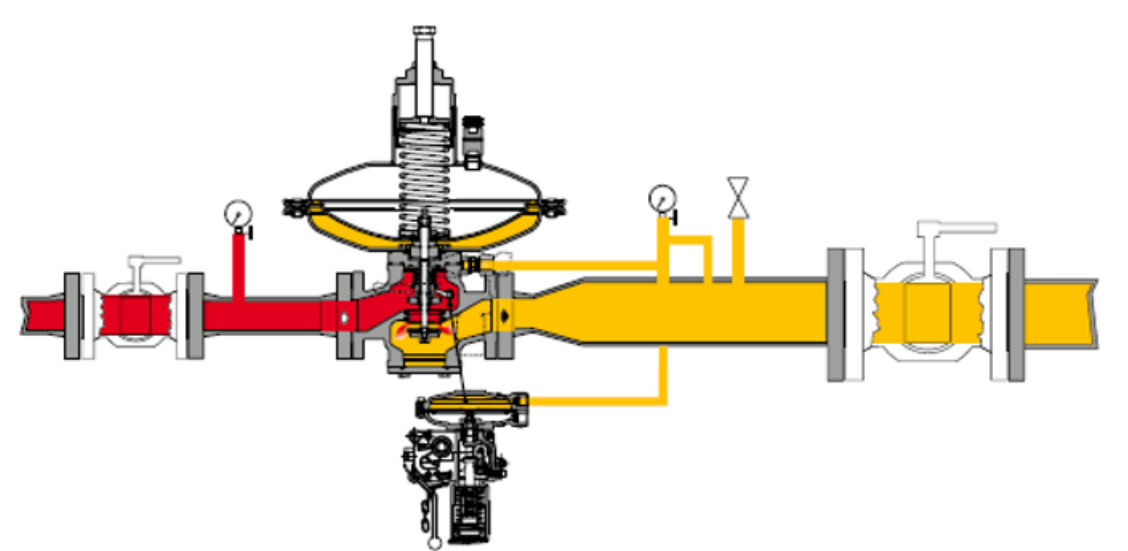


Figure 8 RFN800 with SN800 slam shut

外观尺寸

RFN800

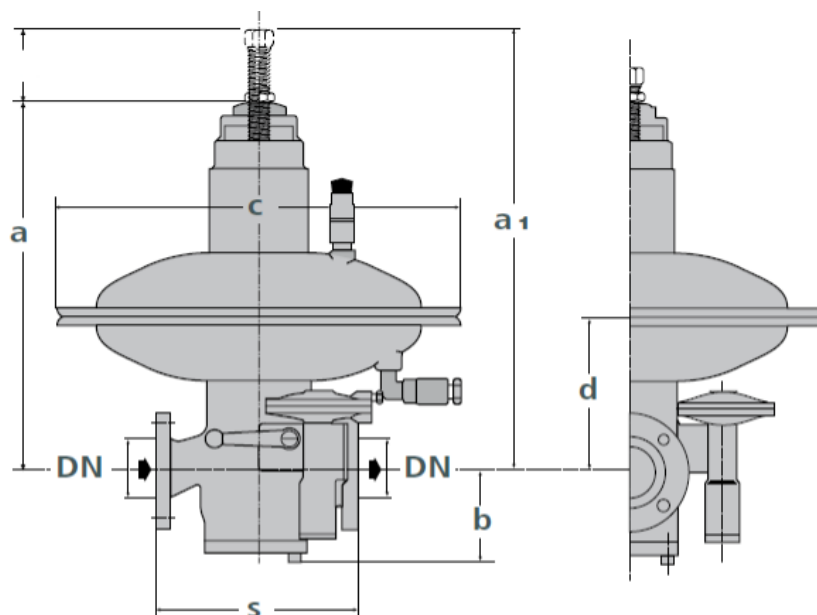


Figure 9 RFN800 dimensions

Weights and Dimensions (for other connections please contact your closest Pietro Fiorentini representative)								
DN mm	C		Ø 630			Ø 495		
	S	b	a	a1	d	a	a1	d
50	183	110	-	-	-	475	645	170
50x80	145	110	-	-	-	475	645	170
80	300	140	500	670	190	500	670	190
100	180	180	560	730	260	560	730	260

重量	Ø 630		Ø 495			
DN mm	80x80	100x100	50x50	50x80	80x80	100x100
RFN800	85	125	50	52	70	110
RFN800+SN800	90	130	55	57	75	115

Table 4 RFN800 weights and dimensions

Customer Centricity

Pietro Fiorentini is one of the main Italian international companies with 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.



Sustainability

Here at Pietro Fiorentini, we believe in a world capable of improvement through technologies and solutions that can shape a more sustainable future. That is why respect for people, society and the environment form the cornerstones of our strategy.



Our commitment to the world of tomorrow

While in the past we limited ourselves to providing products, systems and services for the oil & gas sector, today we want to broaden our horizons and create technologies and solutions for a digital and sustainable world, with a particular focus on renewable energy projects to help make the most of our planet's resources and create a future in which the younger generations can grow and prosper.

The time has come to put the why we operate before the what and how we do it.





望燃



A Pietro Fiorentini Company

TB0101CHN



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

RFN800_technicalbrochure_CHN_revA

www.fiorentini.com