ROTAREX
VALVES - REGULATORS - SYSTEMS

SPECIALTY GAS PRESSURE REGULATOR

rotarex.com

CONTENTS

ISO 9001 QUALITY ASSURANCE

All Rotarex regulators are manufactured in Europe in compliance with international standards (ISO, CGA, etc.) and have been specially designed to ensure safe, reliable operation. All production sites comply with ISO 9001 standards.

ROTAREX
VALVES - REGULATORS - SYSTEMS

A STRONG SPIRIT OF INNOVATION AND QUALITY

- 4 research and development centers
- In-house testing laboratories
- 13 university collaborations
- Simulation Department
- All the quality standards you need

SINGLE-STAGE HIGH-PRESSURE REGULATORS

SERIES SC280
SC380 p.20

S SERIES 220 p.22

S SERIES 400 p.24

S SERIES 800 p.26

	SERIES SC280 / SC380	S SERIES 220	S SERIES 400	S SERIES 800
Technology	Cartridge	Diaphragm	Piston	Diaphragm + balanced valve
Inlet pressure	200/300 bar 2.900/4,350 psi	200 bar 2.900 psi	300 bar 4.350 psi	300 bar 4.350 psi
Outlet pressure (max)	1.5/4/10/16/35/50 bar 21.75/58/145/232/ 508/725 psi	3/15/25/50 bar 44/218/362.5 /725 psi	20 to 200 bar 290 to 2,900 psi	10/16/25/50 bar 145/232/362.5 /725 psi
Flow rate $Nm^3/h(N_2)$	1/2/10/20/30	5/25/50	30	50/100
Material	Chrome-plated brass Stainless steel	Stainless steel	Chrome-plated brass Stainless steel	Chrome-plated brass

SC SERIES 290 F (Food) p.68

SL 800 F SERIES p.70

	SC SERIES 290 F (Food)	SL 800 F SERIES
Technology	Cartridge	Balanced valve
Inlet pressure	200 bar 2,900 psi	200 bar 2,900 psi
Outlet pressure	16/35 bar 232/508 psi	16/50 bar 232/725 psi
Flow rate $Nm^3/h(N_2)$	50/75	50/100
Material	Chrome-plated brass	Chrome-plated brass

DUAL-STAGE HIGH-PRESSURE REGULATORS

SERIES DC 280
DC 380 p.28

D SERIES 230 p.30

SERIES D 230-0.1 p.32

	SERIES DC 280 / DC 380	D SERIES 230	SERIES D 230-0.1
Technology	Diaphragm + cartridge	Piston/bellows	Piston/diaphragm
Inlet pressure	200/300 bar 2,900/4,350 psi	200 bar 2.900 psi	200 bar 2.900 psi
Outlet pressure	1.5/4/10/16/35 bar 21.75/58/145/232/508 psi	1/3/10 bar 14.5/44/145 psi	0.01 - 0.1 bar 0.14 - 1.45 psi
Flow rate $Nm^3/h(N_2)$	1/2/10/20/30	2/2.5/3.5	0.5
Material	Chrome-plated brass Stainless steel	Chrome-plated brass Stainless steel	Chrome-plated brass Stainless steel

LOW-PRESSURE REGULATORS

	SI SPECYL SERIES p.34	S SERIES 10 p.36	S SERIES 15 p.38	S SERIES 20 p.40
Technology	Diaphragm	Diaphragm + balanced valve	Diaphragm + balanced valve	Bellows
Inlet pressure	25 bar 362.5 psi	25 bar 362.5 psi	25 bar 362.5 psi	50 bar 725 psi
Outlet pressure	3/8 bar 44/116 psi	3/8 bar 44/116 psi	10 bar 145 psi	1/3/10 bar 14.5/44/145 psi
Flow rate $Nm^3/h(N_2)$	5/12.5	4.5/12	50	2/2.5/3.5
Material	Stainless steel	Chrome-plated brass Stainless steel	Chrome-plated brass Stainless steel	Chrome-plated brass Stainless steel
Option		Fastening ring		Fastening ring

	S SERIES 20-0.1 p.42	S SERIES 55 p.44	DC 50 SERIES p.46	DC 50 F SERIES (Food) p.72
Technology	Diaphragm	Diaphragm	Diaphragm + balanced valve	Diaphragm
Inlet pressure	50 bar 725 psi	50 bar 725 psi	50 bar 725 psi	20 bar 290 psi
Outlet pressure	0.01 - 0.1 bar 0.14 - 1.45 psi	3/10/16/35 bar 44/145/323/508 psi	8/15/40 bar 116/217/580 psi	8/15 bar 116/217 psi
Flow rate $Nm^3/h(N_2)$	0.5	2.5/3.5/5.5/10	150/300/300	75/120
Material	Chrome-plated brass	Chrome-plated brass Fastening ring* for	Chrome-plated brass	Chrome-plated brass

*Not available with 35 bar version

	S SERIES 15 F (Food) p.74
Technology	Diaphragm + balanced valve
Inlet pressure	25 bar 362.5 psi
Outlet pressure	10 bar 145 psi
Flow rate $Nm^3/h(N_2)$	50
Material	Chrome-plated brass

POINTS OF USE | MOUNTED VERSIONS

	S SERIES 21 p.48	**LABLINE 22** p.50
Technology	Bellows	Bellows
Inlet pressure	50 bar 725 psi	50 bar 725 psi
Outlet pressure	1/3/10 bar 14.5/44/145 psig	1/3/10 bar 14.5/44/145 psig
Flow rate $Nm^3/h(N_2)$	2/2.5/3.5	2/2.5/3.5
Material	Chrome-plated brass Stainless steel	Chrome-plated brass Stainless steel
Option	Metal plate Stainless steel	Metal plate (¼-turn valve) Aluminum baseplate Aluminum column (¼-turn valve)

POINTS OF USE | INTEGRATED VERSIONS

	MS15 p.52	**MS20** p.54	**MS15 F (Food)** p.76
Technology	Diaphragm + Cartridge	Bellows	Diaphragm + balanced valve
Inlet pressure	25 bar 362.5 psi	50 bar 725 psi	25 bar 362.5 psi
Outlet pressure	10 bar 145 psi	1/3/10 bar 14.5/44/145 psi	10 bar 145 psi
Flow rate $Nm^3/h(N_2)$	50	2/2.5/3.5	50
Material	Aluminum Stainless steel	Aluminum Stainless steel	Aluminum

SPECIAL APPLICATION | REGULATORS FOR CALIBRATION GASES

	S SERIES 75 p.56
Technology	Piston
Inlet pressure	200 bar 2,900 psi
Outlet pressure	3.5 bar 50 psi
Flow rate $Nm^3/h(N_2)$	3-5 lpm
Material	Nickel-plated brass

SINGLE-STAGE HIGH-PRESSURE REGULATORS

	TGD 250 SERIES p.58
Technology	Diaphragm
Inlet pressure	200/230 bar 2,900/3,336 psi
Outlet pressure	2 to 20 bar 29 to 290 psi
Flow rate $Nm^3/h(N_2)$	250
Material	Raw brass

IN-LINE VALVES

VD SERIES p.60

Operating pressure	50/230/300 bar 725/ 3.336/4.350 psi
CV	0.2
Material	Chrome-plated brass Stainless steel
Type	Diaphragm
Steering wheel	¼ turn

VM 20 SERIES p.61

Operating pressure	50 bar 725 psi
CV	0.14
Material	Chrome-plated brass Stainless steel
Type	Diaphragm
Steering wheel	¼ turn/multiturn

VM 45 SERIES p.62

Operating pressure	45 bar 652 psi
CV	0.58
Material	Chrome-plated brass
Type	Diaphragm
Steering wheel	¼ turn "or" multiturn

RD 10 SERIES p.63

Operating pressure	60 bar 870 psi
CV	0.116
Material	Chrome-plated brass Stainless steel
Type	Needle valve
Steering wheel	Multitours

VDB 230 F p.78

Operating pressure	50/230 bar 725/ 3.336 psi
CV	0.2
Material	Chrome-plated brass
Type	Diaphragm
Steering wheel	¼ turn

ACCESSORIES

BOTTLE CONNECTORS p.64

GAS CYLINDER HOLDER p.64

PIGTAILS F p.79

FLEX HOSES FX06 F p.80

For all our products: Gaskets available on request, depending on gas compatibility (see p.66)

TECHNOLOGY OVERVIEW
INTRODUCTION

Rotarex uses 4 main technologies to achieve stable and reliable pressure regulation:

DIAPHRAGM

- Most widely used technology (cylinder control, in-line control, expansion module...)
- Compact design
- High precision

BELLOWS

- High outlet pressure accuracy
- Less sensitive to outlet pressure rise
- Mainly used for applications such as chromatography

PISTON

- Stable outlet pressure
- Used for regulators with outlet pressure close to inlet pressure
- Used as the1st stage of a dual-stage regulator
- Used for calibration regulators

BALANCED VALVE

- Ensures excellent outlet pressure stability
- Minimizes the effect of inlet pressure fluctuations on outlet pressure
- Extends valve life and reduces operating costs by reducing stress on the seat
- Diaphragm technology only

SINGLE-STAGE PRESSURE REGULATOR

A **single-stage pressure regulator** reduces inlet pressure to outlet pressure in a single step. The outlet pressure can be adjusted by turning the handwheel. Due to the design of single-stage regulators, outlet pressure increases as cylinder pressure decreases. Outlet pressure can be readjusted by turning the handwheel.

Because of this slight pressure increase, single-stage regulators are recommended for applications that do not require constant outlet pressure.

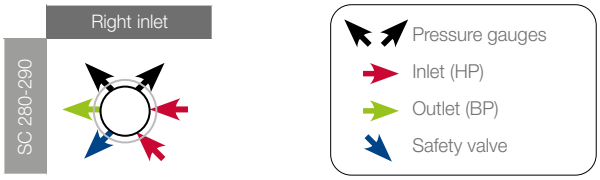
Single-stage regulators are also recommended for use with liquefied gases such as CO_2, propane, LPG and other gases in liquid form in the cylinder.

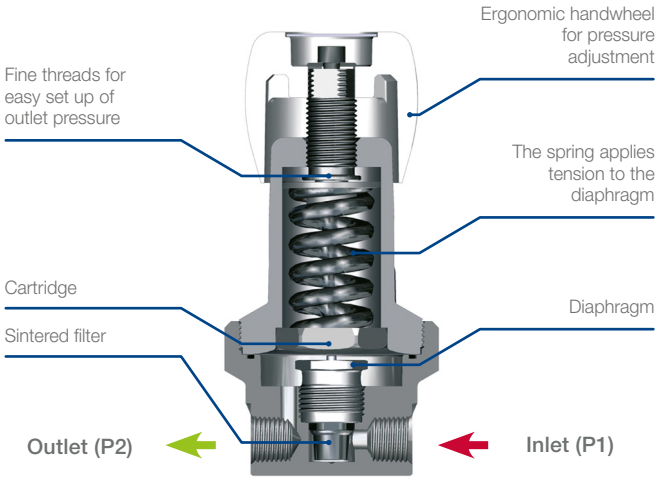
TECHNOLOGY OVERVIEW
CONTINUED

CARTRIDGE REGULATOR

Superior technical performance thanks to cartridge technology:

- Better outlet pressure stability thanks to cartridge design. Outlet pressure remains stable despite fluctuations in inlet pressure.
- Longer product life thanks to less encroachment on the diaphragm.
- Compact design with reduced dead volume (minimum purge requirements)
- The sintered inlet filter offers improved filtration without limiting flow.





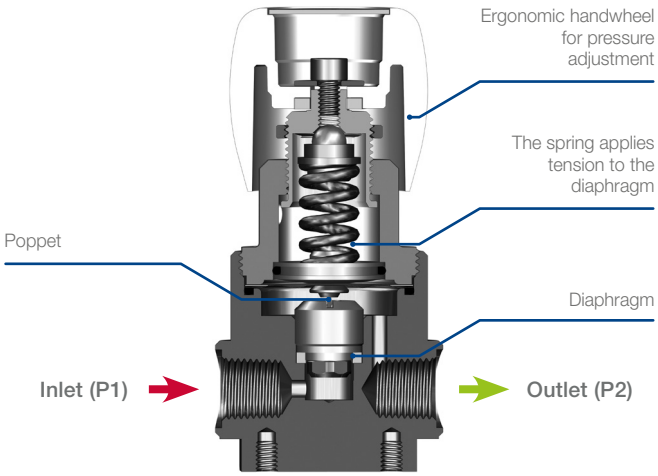
PRODUCT SEARCH

SC 280/380 series	p.20

DIAPHRAGM PRESSURE REGULATOR

PRODUCT SEARCH

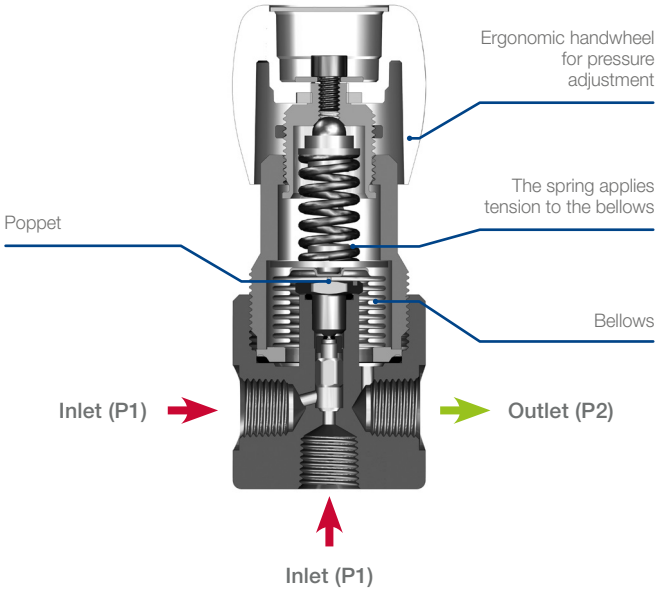
Serie S 220	p.22
TGD 250 series	p.58
Serie S 20-0.1	p.42
Serie S 55	p.44



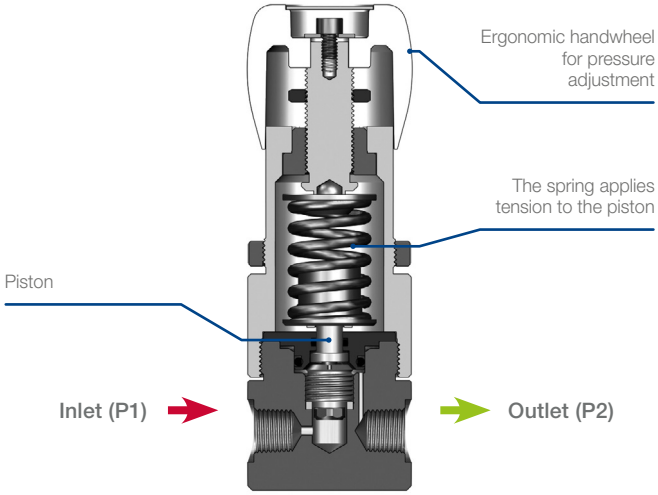
TECHNOLOGY OVERVIEW
CONTINUED

BELLOWS REGULATOR

PRODUCT SEARCH



PISTON REGULATOR



PRODUCT SEARCH

TECHNOLOGY OVERVIEW
CONTINUED

DUAL-STAGE PRESSURE REGULATOR

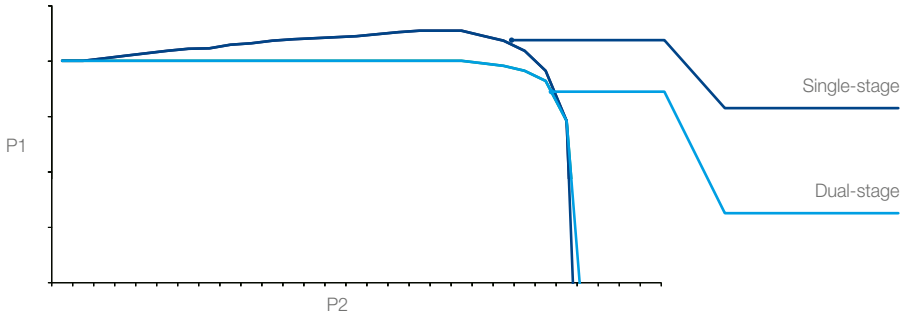
Basically, a **Dual-stage regulator** consists of two single-stage regulators in a single body. This dual configuration provides better pressure and flow stability than single-stage regulators.

The first stage is preset to an intermediate pressure. This intermediate pressure acts as the inlet pressure for the second stage, which is adjustable.

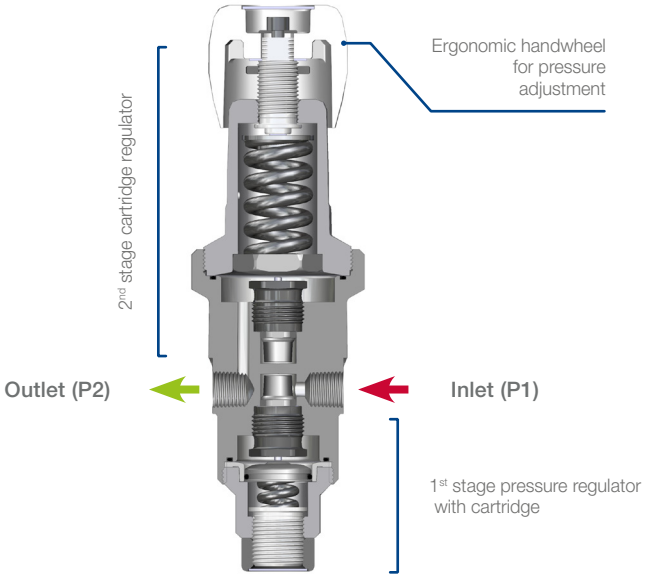
As the pressure has been reduced to the intermediate pressure by the first stage, the pressure supply to the second stage of the regulator remains constant, ensuring a constant outlet pressure for the application, whatever the cylinder pressure. This technology eliminates the need to frequently adjust outlet pressure every time cylinder pressure drops.

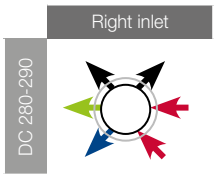
Applications include laboratories, gas chromatography and the precision welding industry.

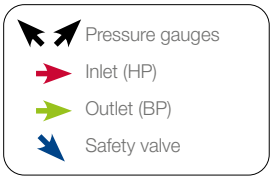
DUAL-STAGE REGULATOR VS. SINGLE-STAGE REGULATOR FLOW CURVE



DUAL-STAGE CARTRIDGE REGULATOR





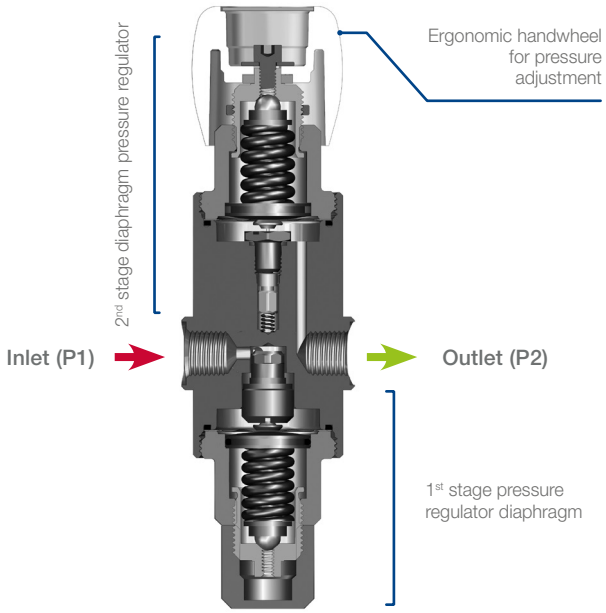


PRODUCT SEARCH

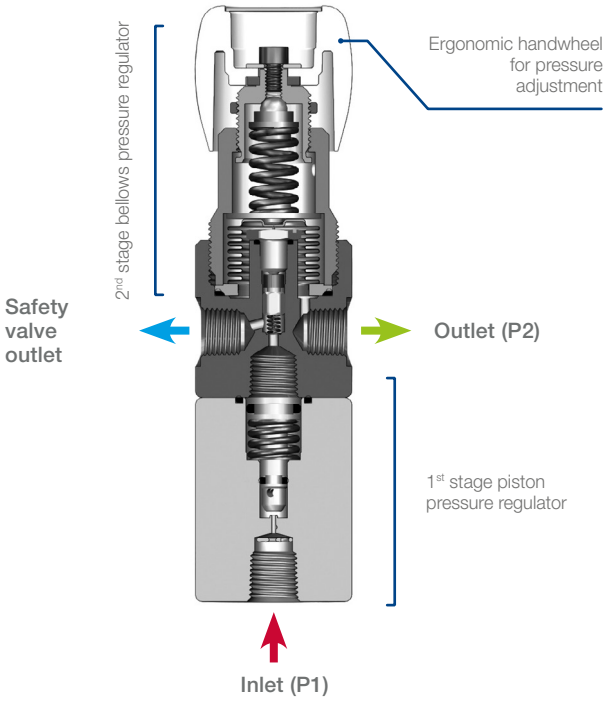
DC 280/380 series p.28

TECHNOLOGY OVERVIEW
CONTINUED

DUAL-STAGE DIAPHRAGM REGULATOR



PISTON/BELLOWS REGULATOR



PRODUCT SEARCH

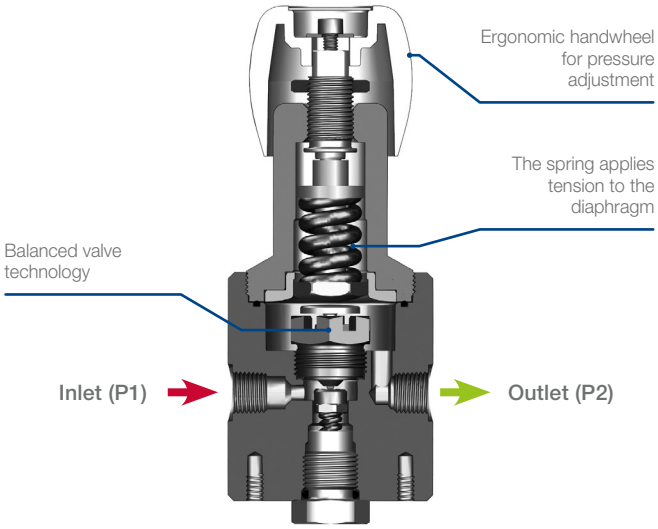
TECHNOLOGY OVERVIEW
CONTINUED

BALANCED VALVE TECHNOLOGY

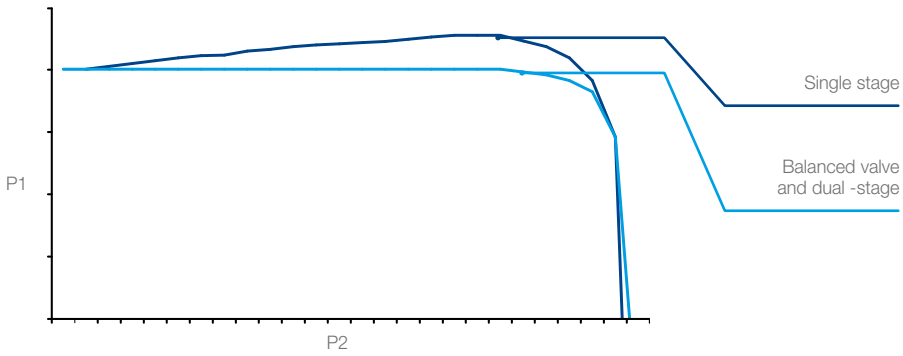
The **balanced valve regulator (bv technology)** guarantees state-of-the-art pressure stability thanks to the unique design of the components within the high-pressure zone. It is able to balance the internal forces within the regulator and eliminate the effects of reduced inlet pressure on outlet pressure. This means that the regulator balances and compensates for any fluctuation in inlet pressure, and provides a constant outlet pressure, just like a two-stage regulator.

This type of regulator also functions as a line regulator for a 2nd regulator and can be fitted to our inversion units. Reversing units equipped with this technology do not require a downstream line regulator, and can be connected directly to the application.

PRODUCT SEARCH



DUAL-STAGE REGULATOR VS. SINGLE-STAGE REGULATOR

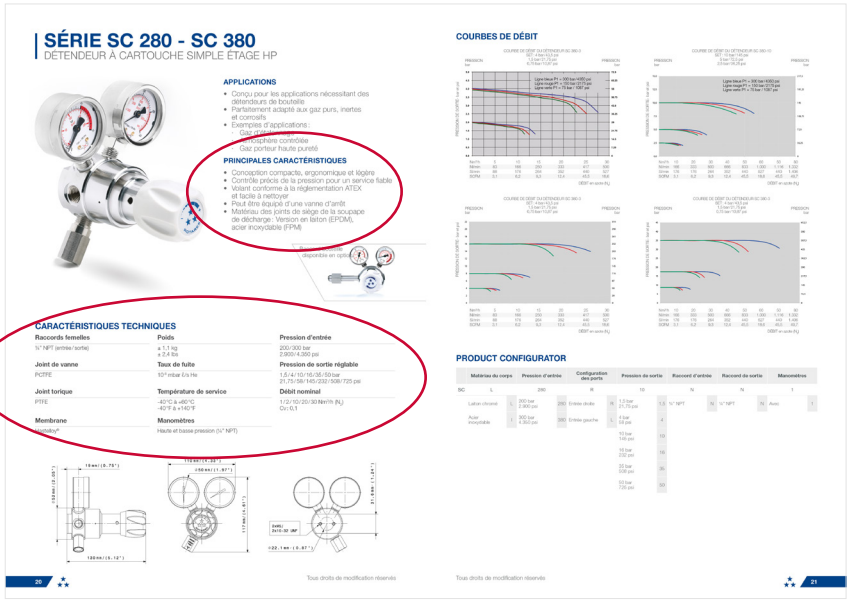


SELECT THE RIGHT REGULATOR
INTRODUCTION

TO SELECT THE RIGHT REGULATOR FOR YOUR APPLICATION AND OBTAIN OPTIMUM RESULTS, PLEASE IDENTIFY THE FOLLOWING TECHNICAL PARAMETERS

Technical parameters	Examples
Gas	Inert, flammable, oxidizing, corrosive, toxic
Purity	UHP, HP, industrial, medical, diving
Nominal inlet pressure	bar or psi
Nominal outlet pressure	bar or psi
Nominal flow (N_2)	Nm^3/h, Nl/min, Sl/min or SCFM
Single- or double-decker ?	Dual-stage or balanced valve technology is the preferred choice if pressure stability is essential
Product	Regulator, point of use, supply board, switchover board
Material	Brass, chrome-plated brass, stainless steel
Inlet connection	Country of use, standard, connection
Outlet connection	G 3/8, ¼ NPT, male, female
Pressure gauges	Low pressure, high pressure
Safety device	Yes / No
Vacuum	Yes / No
Application	Food, electronics, medical, welding, industrial, diving...
Indoor or outdoor use	Environment
Operating temperature	-20 °C to +60 °C / -4 °F to +140 °F
Atex use	Yes / No
Preset outlet pressure	If so, at what pressure ?
Marking	CE, TPED, PI

EACH PRODUCT PAGE HAS BEEN DESIGNED TO GIVE YOU AN OVERVIEW OF THE MAIN TECHNICAL FEATURES



SELECT THE RIGHT REGULATOR
CONTINUED

BODY MATERIALS

Most Rotarex regulators are available in 316L stainless steel or chrome-plated brass, while some models are available in raw brass or aluminum. What's the best material for your system ?

316L stainless steel:The recommended option for corrosive gases and high or ultra-high purity applications, due to its superior strength, non-reactivity, exceptional durability and excellent surface finish. It is compatible with virtually all gas types and low-velocity oxygen applications.

Rotarex uses type 316L stainless steel, an austentic nickel-chromium stainless steel containing molybdenum. It guarantees:

- Outstanding corrosion resistance - particularly against sulphuric, hydrochloric, acetic, formic and tartaric acids, acid sulphates and alkaline chlorine;
- Resistance to stinging by chloride ion solutions; and
- Outstanding resistance even at high temperatures

Chrome-plated or raw brass: The most commonly used material for industrial and high-speed oxygen applications due to its excellent cost-effectiveness, high strength and low coefficient of friction compared with stainless steel.

Need more information? Find out more about our material options on our website: **www.rotarex.com.** In addition, one of our materials engineers will be happy to discuss the pros and cons of each option to help you choose the best solution.

BODY MATERIALS

For many regulators, you can choose between several O-ring materials:

- EPDM: ethylene propylene rubber
- NBR: nitrile rubber
- FPM: fluorocarbon synthetic rubber (VITON®)

For the cartridge:

- PTFE: polytetrafluoroethylene

INLET/OUTLET PRESSURE

Several models are designed for different inlet and outlet pressure performances. Available options are clearly indicated on each product page. When ordering, please specify inlet and outlet pressures required. We can also meet special requirements.

CYLINDER CONNECTIONS

Specific cylinder valve connections are required for each type of gas. Default fittings are NPT 1/4" male and 16 x 1.336 male, representing the most common types. Other standards and dimensions are available on request.

GAUGES

Most Rotarex regulators are equipped with pressure gauges. See the product configurator table on each product page.

Gas compatibility: ensure that the body material is compatible with the type of gas you will be using. Refer to the gas compatibility reference table on page 66.

SELECT THE RIGHT REGULATOR
CONTINUED

RELIEF VALVE

Relief valves are a standard component on most Rotarex regulators and are matched to the type of gas.

SEAT MATERIAL

For all cartridge regulators, the seat gasket is made of PCTFE, ensuring high chemical compatibility, good temperature resistance and better dimensional stability than conventional gaskets.

DIAPHRAGM MATERIAL

All cartridge regulators are equipped with a Hastelloy® diaphragm, ideally suited to high-purity applications and compatible with all types of gas; it features exceptional elasticity and high corrosion resistance. As a result, this diaphragm is far superior to conventional stainless steel diaphragms in terms of pressure stability and longevity.

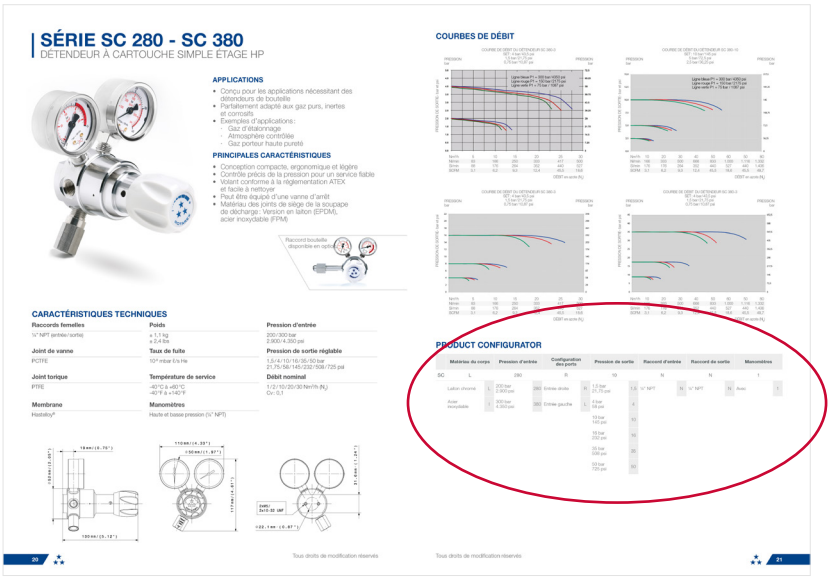
FILTER MATERIAL

Rotarex cartridge regulators use a sintered filter in 316L for stainless steel models and bronze for brass versions.

- The purpose of this filter is to protect the regulator against foreign particles from the gas or from installation work. In all cases, a filter must be installed on the line according to your cleanliness requirements.

OTHER OPTIONS

Many product solutions feature additional options specific to a given application, such as mounting options, bottom scale, valve type, etc. These options are clearly indicated in the product configuration table on each product page. These options are clearly indicated in the product configuration table on each product page.



CLEANING

Whatever the gas application, all products are cleaned to remove traces of residue and grease, using the same procedures as for O_2. There is no need to specify special cleaning when ordering.

SC 280 - SC 380 SERIES
SINGLE-STAGE HP CARTRIDGE REGULATOR

APPLICATIONS

- Designed for applications requiring cylinder regulators
- Perfectly suited to pure, inert and corrosive gases
- Application examples:
  - Calibration gas
  - Controlled atmosphere
  - High-purity carrier gas

KEY FEATURES

- Compact, ergonomic, lightweight design
- Precise pressure control for reliable service
- Handwheel complies with ATEX regulations and is easy to clean
- Can be fitted with a shut-off valve
- Valve seat gasket material: Brass version (EPDM), stainless steel (FPM)

Bottle connection available as an option

TECHNICAL DATA

Female connections
¼" NPT (inlet/outlet)

Seat gasket
PCTFE

O-ring seal
PTFE

Diaphragm
Hastelloy®

Weight
± 1.1 kg
± 2.4 lbs

Leakage rate
10^{-8} mbar ℓ/s He

Operating temperature
-40 °C to +60 °C
-40 °F to +140 °F

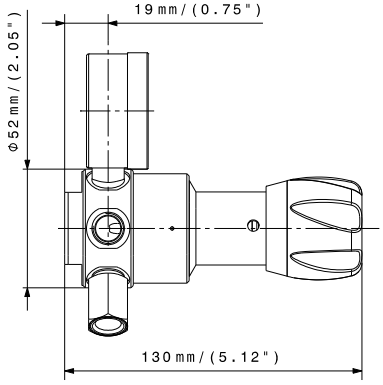
Pressure gauges
High and low pressure(¼" NPT)

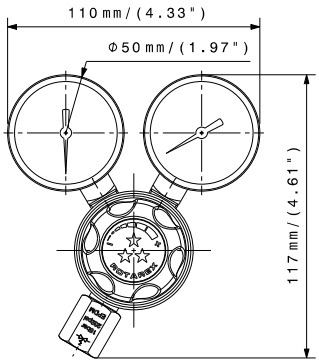
Inlet pressure
200/300 bar
2,900/4,350 psi

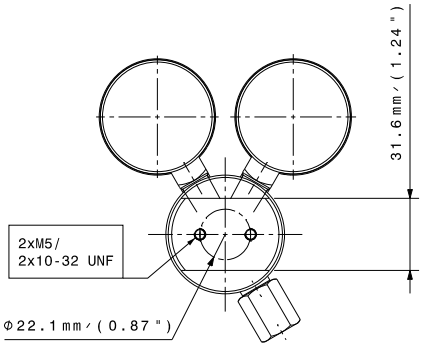
Adjustable outlet pressure
1.5/4/10/16/35/50 bar
21.75/58/145/232/508/725 psi

Nominal flow
1/2/10/20/30 $Nm^3/h(N_2)$
Cv: 0.1

Oxygen use
OK with brass and stainless steel



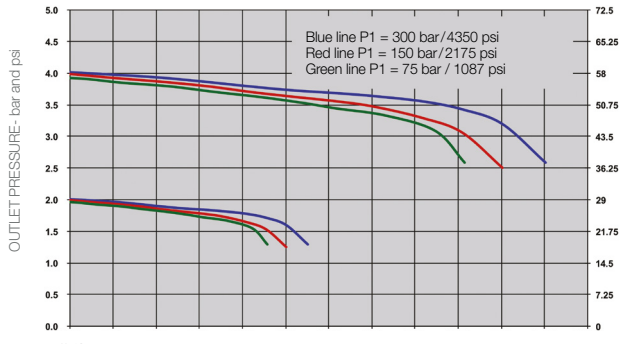




FLOW CURVES

SC 380-3 VALVE FLOW CURVE
SET: 4 bar/43.5 psi
1.5 bar/21.75 psi
0.75 bar/10.87 psi

PRESSURE bar — PRESSURE bar

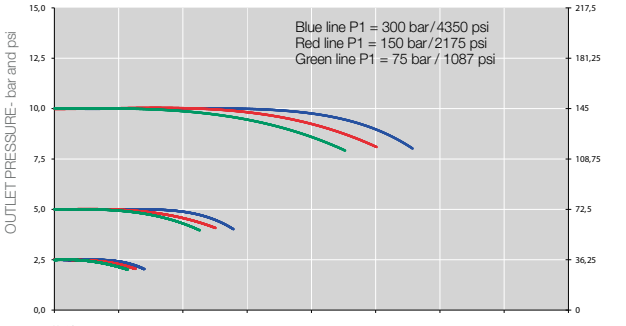


Nm3/h	5	10	15	20	25	30
Nl/min	83	166	250	333	417	500
Sl/min	88	176	264	352	440	527
SCFM	3,1	6,2	9,3	12,4	45,5	18,6

FLOW in nitrogen (N_2)

SC 380-10 VALVE FLOW CURVE
SET: 10 bar/145 psi
5 bar/72.5 psi
2.5 bar/36.25 psi

PRESSURE bar — PRESSURE bar

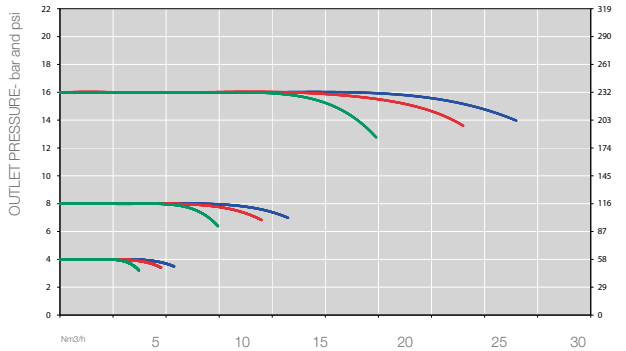


Nm3/h	10	20	30	40	50	60	50	80
Nl/min	166	333	500	666	833	1.000	1.116	1.332
Sl/min	176	176	264	352	440	527	440	1.406
SCFM	3,1	6,2	9,3	12,4	45,5	18,6	45,5	49,7

FLOW in nitrogen (N_2)

SC 380-3 VALVE FLOW CURVE
SET: 4 bar/43.5 psi
1.5 bar/21.75 psi
0.75 bar/10.87 psi

PRESSURE bar — PRESSURE bar

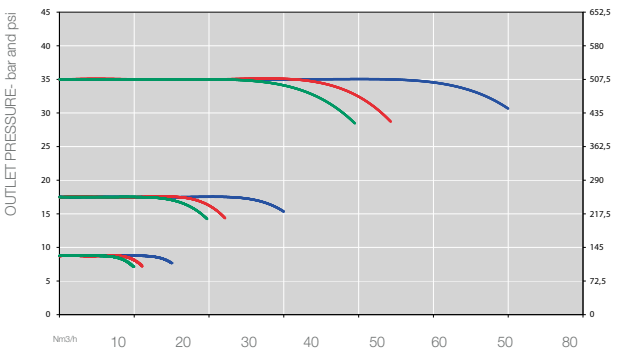


Nm3/h	5	10	15	20	25	30
Nl/min	83	166	250	333	417	500
Sl/min	88	176	264	352	440	527
SCFM	3,1	6,2	9,3	12,4	45,5	18,6

FLOW in nitrogen (N_2)

SC 380-3 VALVE FLOW CURVE
SET: 4 bar/43.5 psi
1.5 bar/21.75 psi
0.75 bar/10.87 psi

PRESSURE bar — PRESSURE bar



Nm3/h	10	20	30	40	50	60	50	80
Nl/min	166	333	500	666	833	1.000	1.116	1.332
Sl/min	176	176	264	352	440	527	440	1.406
SCFM	3,1	6,2	9,3	12,4	45,5	18,6	45,5	49,7

FLOW in nitrogen (N_2)

PRODUCT CONFIGURATOR

	Body material		Inlet pressure		Port configuration		Outlet pressure		Inlet connection		Outlet connection		Pressure gauges	
SC	L		280		R		10		N		N		1	
	Chrome-plated brass	L	200 bar 2,900 psi	280	Right inlet	R	1.5 bar 21.75 psi	1,5	¼" NPT	N	¼" NPT	N	With	1
	Stainless steel	I	300 bar 4,350 psi	380			4 bar 58 psi	4						
							10 bar 145 psi	10						
							16 bar 232 psi	16						
							35 bar 508 psi	35						
							50 bar 725 psi	50						

SI 220 SERIES
SINGLE-STAGE HP PRESSURE REGULATOR

APPLICATIONS

- Designed for applications requiring cylinder regulators
- Perfectly suited to corrosive gases in ultra-high-purity applications and fundamental research laboratories

KEY FEATURES

- No risk of contamination thanks to threadless, springless design
- Low dead volume to ensure proper purging of the regulator
- Ergonomic steering wheel for exceptional control
- Can be panel-mounted thanks to rear thread
- Can be fitted with shut-off valve or needle valve at outlet

Bottle connection available as an option

TECHNICAL DATA

Female connections
16 x 1.336 (inlet) - G 3/8 (outlet)

Weight
± 2.0 kg / ± 4.4 lbs

Inlet pressure
200 bar / 2,900 psi

Seat gasket
PCTFE

Leakage rate
3.10^{-9} mbar ℓ/s He

Adjustable outlet pressure
3 / 15 / 25 / 50 bar
44 / 218 / 360 / 725 psi

O-ring seal
FPM

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Nominal flow
5 / 25 / 50 / 50 $Nm^3/h(N_2)$

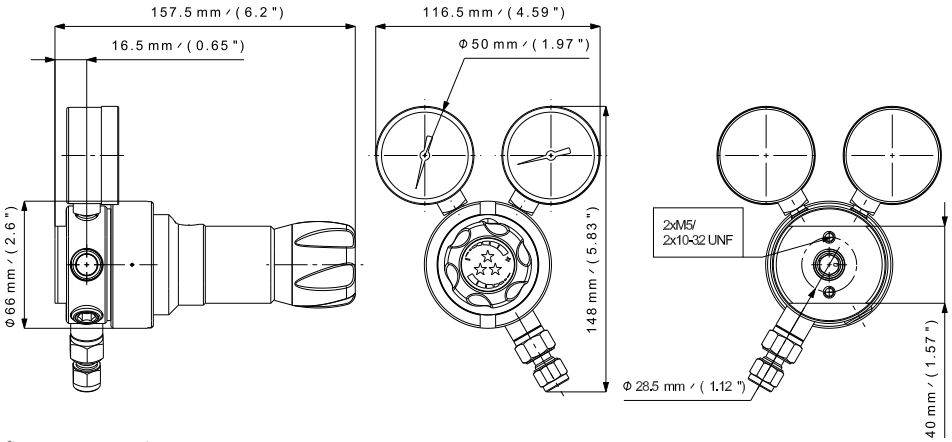
Diaphragm
Hastelloy®

Pressure gauges
High and low pressure (M10 x 1 or ¼" NPT)

Oxygen use
Stainless steel version:
OK with inlet pressure ≤ 30 bar max.

Inlet position
Left*

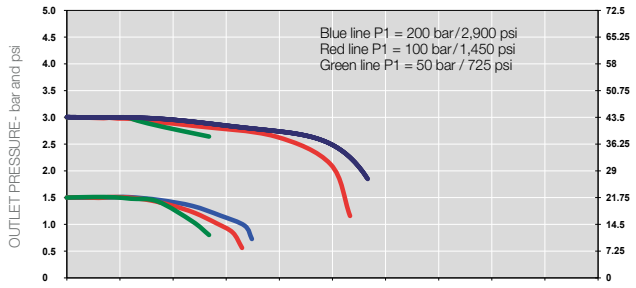
Outlet position
Right*



*Inlet: Right / Outlet: Left -> on request

FLOW CURVES

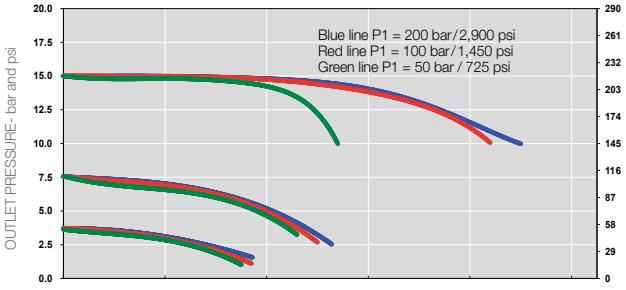
REGULATOR FLOW CURVE IF 220-3
SET: 4 bar/43.5 psi
1.5 bar/21.75 psi
10 bar/14.5 psi



Nm3/h	5	10	15	20	25	30	35	40	45	50
Nl/min	83	166	249	332	415	498	581	664	747	830
Sl/min	88	176	264	352	440	527	615	703	791	879
SCFM	3,1	6,2	9,3	12,4	15,5	18,6	21,7	24,8	27,9	31

FLOW in nitrogen (N_2)

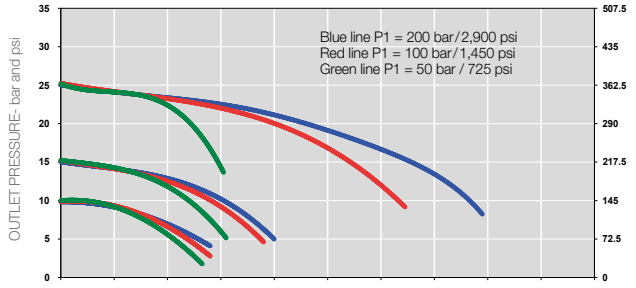
REGULATOR FLOW CURVE IF 220-15
SET: 15 bar/217.5 psi
7.5 bar/108.75 psi
3.75 bar/54.37 psi



Nm3/h	20	40	60	80	100
Nl/min	332	664	996	1.328	1.660
Sl/min	352	703	1.055	1.406	1.758
SCFM	12,4	24,8	37,2	49,7	62,1

FLOW in nitrogen (N_2)

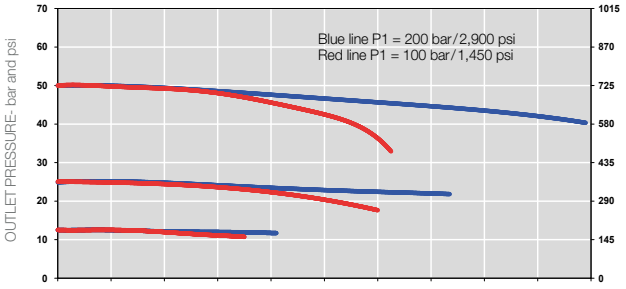
REGULATOR FLOW CURVE IF 220-25
SET: 25 bar/362.5 psi
15 bar/217.5 psi
10 bar/145 psi



Nm3/h	20	40	60	80	100	120	140	160	180	200
Nl/min	332	664	996	1.328	1.660	1.992	2.324	2.656	2.988	3.320
Sl/min	352	703	1.055	1.406	1.758	2.110	2.461	2.813	3.164	3.516
SCFM	12,4	24,8	37,2	49,7	62,1	74,5	86,9	99,3	111,7	124,2

FLOW in nitrogen (N_2)

SC 220-50 VALVE FLOW CURVE
SET: 50 bar/725 psi
25 bar/362.5 psi
12.5 bar/181.25 psi



Nm3/h	20	40	60	80	100	120	140	160	180	200
Nl/min	332	664	996	1.328	1.660	1.992	2.324	2.656	2.988	3.320
Sl/min	352	703	1.055	1.406	1.758	2.110	2.461	2.813	3.164	3.516
SCFM	12,4	24,8	37,2	49,7	62,1	74,5	86,9	99,3	111,7	124,2

FLOW in nitrogen (N_2)

PRODUCT CONFIGURATOR

	Body material		Outlet pressure		Connections		Materials O-ring (safety valve)	Pressure gauges		Port configuration	
S	I		220	15	N		FPM	1		RL	
	Stainless steel	I	3 bar 44 psi	3	16 x 1.336 - G 3/8	16	FPM	With	1	Inlet on the right, outlet on the left	RL
			15 bar 218 psi	15						Left outlet	A
			25 bar 360 psi	25							
			50 bar 725 psi	50							

S 400 SERIES
SINGLE-STAGE HP PRESSURE REGULATOR

APPLICATIONS

- Designed for applications requiring cylinder regulators
- Ideal for pressurizing tanks, detecting leaks and venting pipes

KEY FEATURES

- Decompresses the downstream control system by turning the handwheel anti-clockwise
- Precise pressure control for reliable service
- Possibility of connecting a safety valve
- Can be panel-mounted thanks to rear thread
- Can be fitted with an outlet shut-off valve

Bottle connection available as an option

TECHNICAL DATA

Female connections
16 x 1.336 (inlet) - G 3/8 (outlet)
or ¼" NPT (inlet/outlet)

Seat gasket
PCTFE

O-ring seal
EPDM

Piston
AISI 316L

Inlet position
Left*

Weight
± 1.6 kg / ± 3.5 lbs

Leakage rate
$3.^{10-8}$ mbar ℓ/s He

Operating temperature
-40 °C to +60 °C / -40 °F to +140 °F

Pressure gauges
High and low pressure (M10 x 1 or ¼" NPT)

Outlet position
Right*

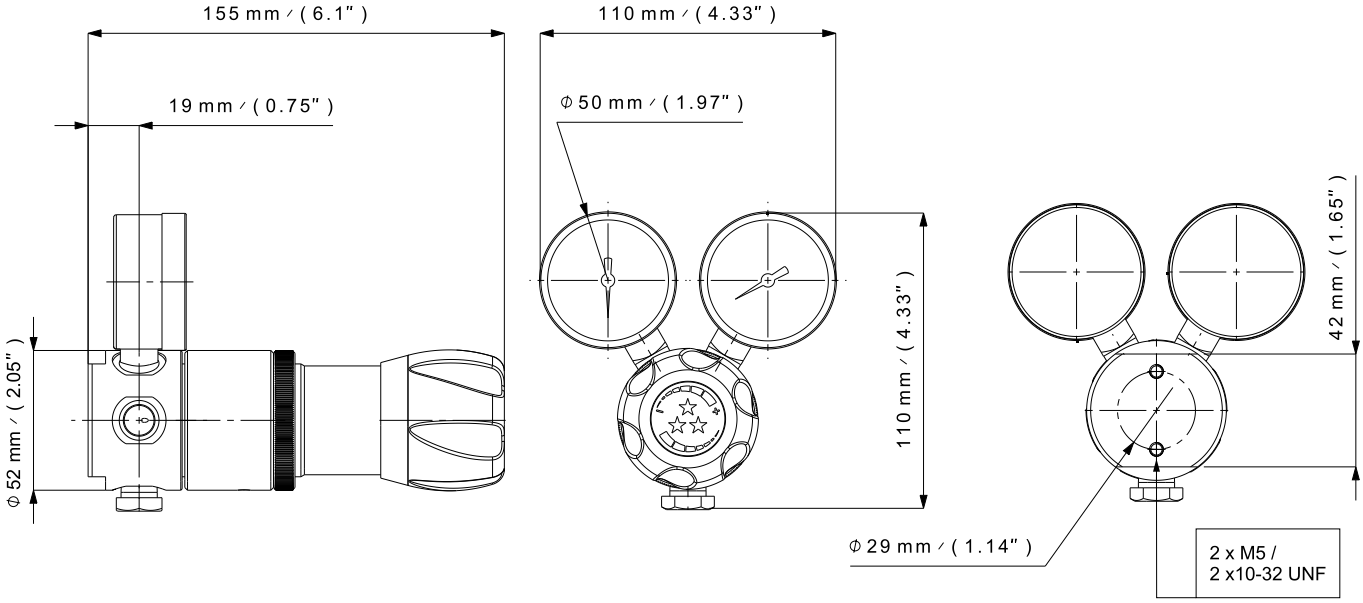
Inlet pressure
300 bar / 4,350 psi

Adjustable outlet pressure
20 to 200 bar
290 to 2,900 psi

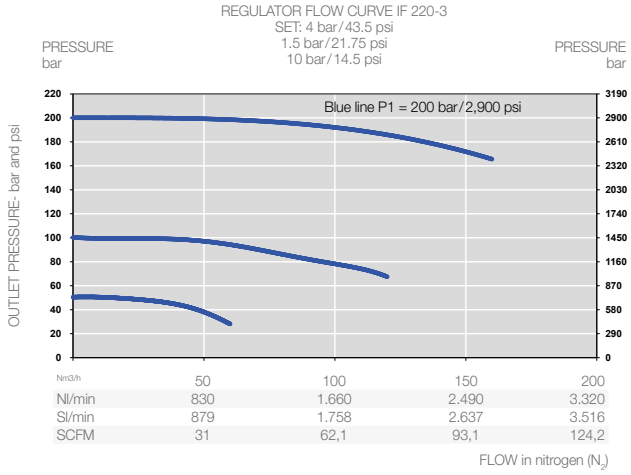
Nominal flow
30 $Nm^3/h(N_2)$

Oxygen use
Brass only

*Inlet: Right / Outlet: Left -> on request



FLOW CURVES



PRODUCT CONFIGURATOR

	Body material		Safety valve configuration		Connections		Materials O-ring	Pressure gauges	
S	L		-	400	N		EPDM	1	
	Chrome-plated brass	L	With pressure relief system	-	16 x 1.336 - G 3/8	16	EPDM	With	1
	Stainless steel	I	Available with safety valve connection	S	¼" NPT - ¼" NPT	N			

S 800 SERIES
SINGLE-STAGE HP PRESSURE REGULATOR

APPLICATIONS

- Designed for use as a high-pressure regulator
- Perfectly suited to high-purity gases and high-pressure applications requiring high flow rates and precise outlet pressure, e.g. laser applications
- Also used in nuclear research departments requiring precise outlet pressure and high flow rates

KEY FEATURES

- Best-in-class pressure control thanks to balanced valve technology for: minimizing the effect of inlet pressure fluctuations on outlet pressure
- Highly stable outlet pressure and flow rate, even at high flow rates
- Increased controller service life

Bottle connection available as an option

TECHNICAL DATA

Female connections
16 x 1.336 (inlet) - G 3/8 (outlet)
or ¼" NPT (inlet/outlet)

Seat gasket
PCTFE

O-ring seal
EPDM

Diaphragm
AISI 304
Hastelloy® (25/50 bar)

Outlet position
Right*

Weight
± 2.4 kg/± 5.3 lbs

Leakage rate
$3.^{10\text{-}8}$ mbar ℓ/s He

Operating temperature
-40 °C to +60 °C/-40 °F to +140 °F

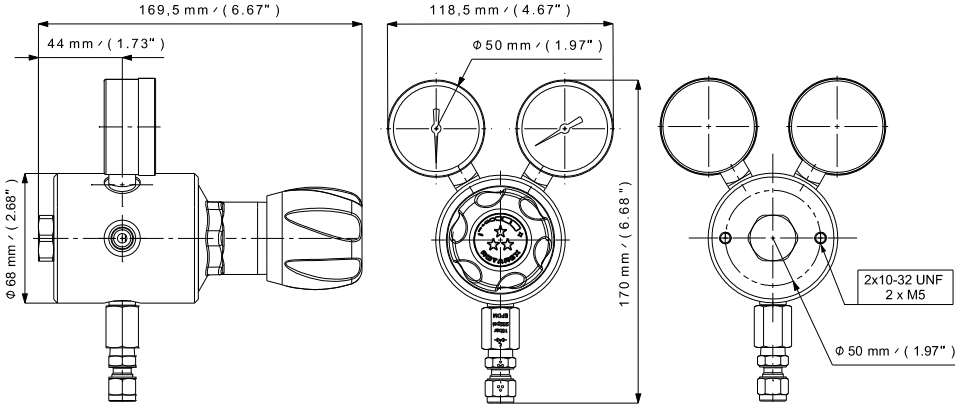
Pressure gauges
High and low pressure (M10 x 1 or ¼" NPT)

Inlet pressure
300 bar/4,350 psi

Adjustable outlet pressure
10/16/25/50 bar
145/232/363/725 psi

Nominal flow
50/50/50/100 $Nm^3/h(N_2)$

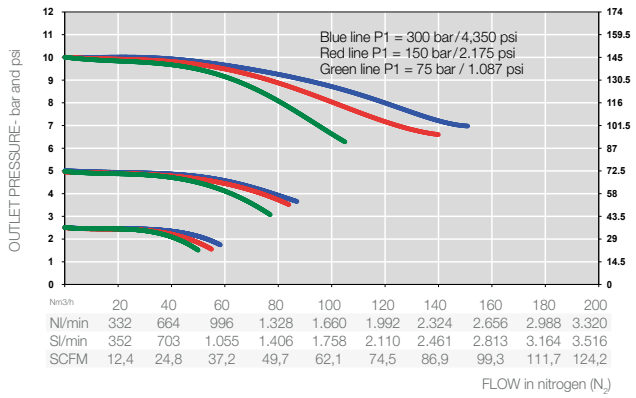
Inlet position
Left*



*Inlet: Right/Outlet: Left -> on request

FLOW CURVES

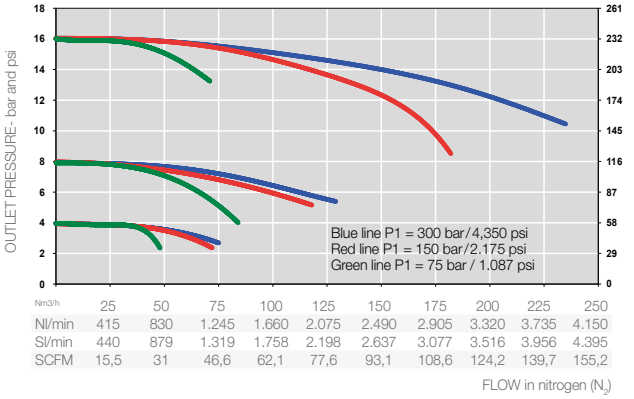
S 800-10 VALVE FLOW CURVE
SET: 10 bar/145 psi
5 bar/72.5 psi
2.5 bar/36.35 psi



Nm3/h	20	40	60	80	100	120	140	160	180	200
Nl/min	332	664	996	1.328	1.660	1.992	2.324	2.656	2.988	3.320
Sl/min	352	703	1.055	1.406	1.758	2.110	2.461	2.813	3.164	3.516
SCFM	12,4	24,8	37,2	49,7	62,1	74,5	86,9	99,3	111,7	124,2

FLOW in nitrogen (N_2)

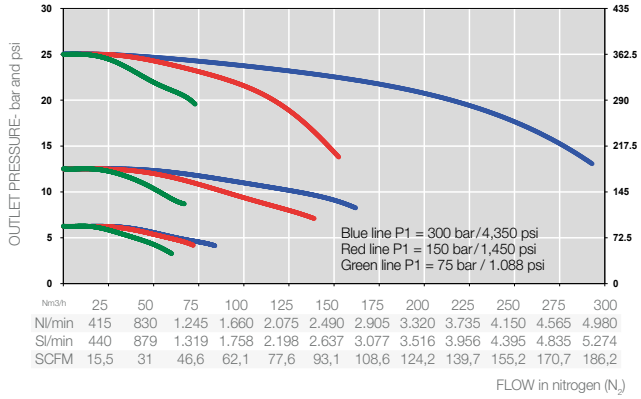
S 800-16 VALVE FLOW CURVE
SET: 16 bar/232 psi
8 bar/116 psi
4 bar/58 psi



Nm3/h	25	50	75	100	125	150	175	200	225	250
Nl/min	415	830	1.245	1.660	2.075	2.490	2.905	3.320	3.735	4.150
Sl/min	440	879	1.319	1.758	2.198	2.637	3.077	3.516	3.956	4.395
SCFM	15,5	31	46,6	62,1	77,6	93,1	108,6	124,2	139,7	155,2

FLOW in nitrogen (N_2)

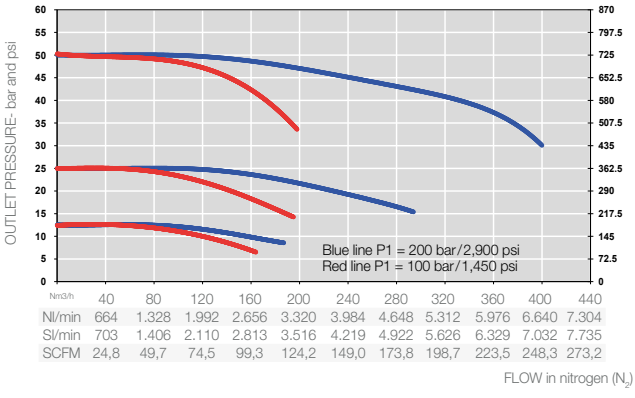
S 800-25 VALVE FLOW CURVE
SET: 25 bar/362.5 psi
12.5 bar/181.25 psi
6.25 bar/90.62 psi



Nm3/h	25	50	75	100	125	150	175	200	225	250	275	300
Nl/min	415	830	1.245	1.660	2.075	2.490	2.905	3.320	3.735	4.150	4.565	4.980
Sl/min	440	879	1.319	1.758	2.198	2.637	3.077	3.516	3.956	4.395	4.835	5.274
SCFM	15,5	31	46,6	62,1	77,6	93,1	108,6	124,2	139,7	155,2	170,7	186,2

FLOW in nitrogen (N_2)

S 800-50 VALVE FLOW CURVE
SET: 50 bar/725 psi
25 bar/362.5 psi
12.5 bar/181.25 psi



Nm3/h	40	80	120	160	200	240	280	320	360	400	440
Nl/min	664	1.328	1.992	2.656	3.320	3.984	4.648	5.312	5.976	6.640	7.304
Sl/min	703	1.406	2.110	2.813	3.516	4.219	4.922	5.626	6.329	7.032	7.735
SCFM	24,8	49,7	74,5	99,3	124,2	149,0	173,8	198,7	223,5	248,3	273,2

FLOW in nitrogen (N_2)

PRODUCT CONFIGURATOR

	Body material			Outlet pressure		Connections		Materials O-ring		Pressure gauges	
S	L		800	16		N		EPDM		1	
	Chrome-plated brass	L		10 bar 145 psi	10	16 x 1.336 - G 3/8	16	EPDM		With	1
				16 bar 232 psi	16	¼" NPT - ¼" NPT	N				
				25 bar 362.5 psi	25						
				50 bar 725 psi	50						

*On request

DC 280 - DC 380 SERIES
DUAL-STAGE HP CARTRIDGE REGULATOR

APPLICATIONS

- This regulator is ideally suited as a cylinder regulator for pure, inert and corrosive gas applications, such as analytical instrumentation
  - Gas chromatography
  - Carrier gas
  - Calibration gas

KEY FEATURES

- This two-stage regulator is based on cartridge seat technology
- Precise pressure control for reliable service
- Compact, ergonomic, lightweight design
- Handwheel complies with ATEX regulations and is easy to clean
- Can be fitted with a shut-off valve
- Relief valve seat gasket material: Brass version (EPDM), stainless steel (FPM)

Bottle connection available as an option

TECHNICAL DATA

Female connections
¼" NPT (inlet/outlet)

Weight
± 1.5 kg / ± 3.3 lbs

Inlet pressure
200/300 bar
2,900/4,350 psi

Seat gasket
PCTFE

Leakage rate
10^{-8} mbar ℓ/s He

Adjustable outlet pressure
1.5/4/10/16/35 bar
21.75/58/145/232/508 psi

O-ring seal
PTFE

Operating temperature
-40 °C to +60 °C / -40 °F to +140 °F

Nominal flow
1/2/10/20/30 $Nm^3/h(N_2)$
Cv: 0.06

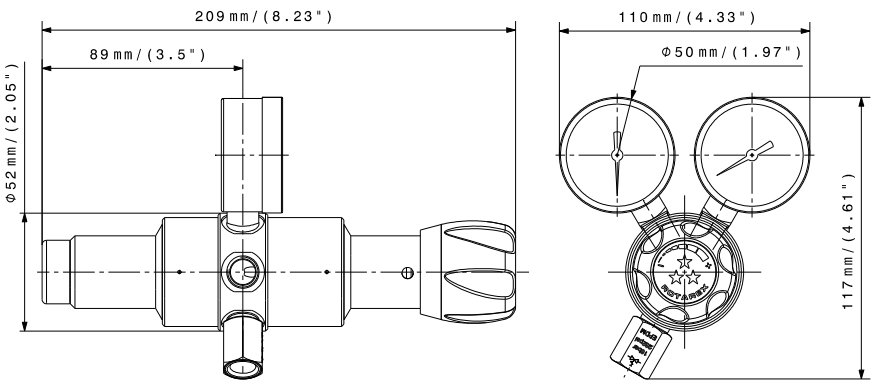
Diaphragm
Hastelloy®

Pressure gauges
High and low pressure(¼" NPT)

Oxygen use
OK with brass and stainless steel

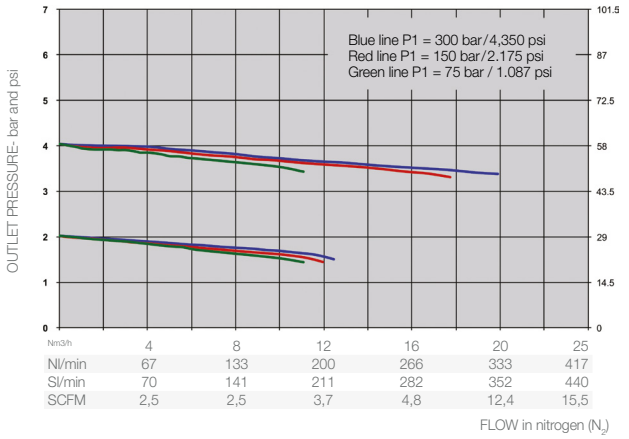
Inlet position
Left

Outlet position
Right



FLOW CURVES

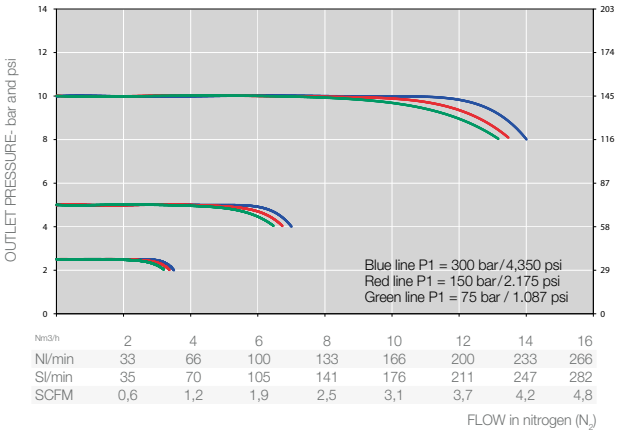
FLOW CURVE FOR DC 380-3 VALVE
SET: 4 bar/43.5 psi
1.5 bar/21.75 psi
0.75 bar/10.87 psi



Nm3/h	4	8	12	16	20	25
Nl/min	67	133	200	266	333	417
Sl/min	70	141	211	282	352	440
SCFM	2,5	2,5	3,7	4,8	12,4	15,5

FLOW in nitrogen (N_2)

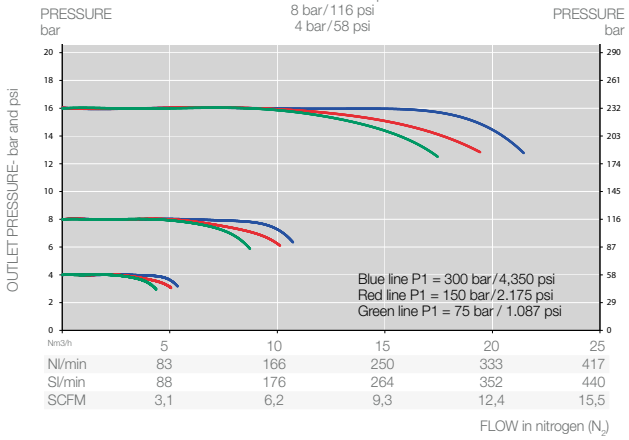
FLOW CURVE FOR DCL 380-10 VALVE
SET: 10 bar/145 psi
5 bar/72.5 psi
2.5 bar/36.35 psi



Nm3/h	2	4	6	8	10	12	14	16
Nl/min	33	66	100	133	166	200	233	266
Sl/min	35	70	105	141	176	211	247	282
SCFM	0,6	1,2	1,9	2,5	3,1	3,7	4,2	4,8

FLOW in nitrogen (N_2)

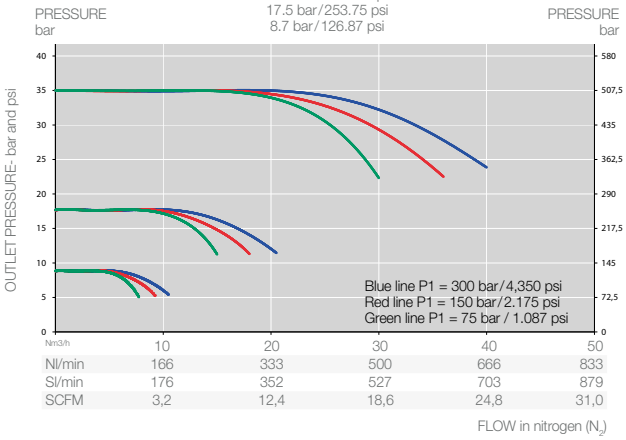
FLOW CURVE FOR DC 380-16 VALVE
SET: 16 bar/232 psi
8 bar/116 psi
4 bar/58 psi



Nm3/h	5	10	15	20	25
Nl/min	83	166	250	333	417
Sl/min	88	176	264	352	440
SCFM	3,1	6,2	9,3	12,4	15,5

FLOW in nitrogen (N_2)

FLOW CURVE FOR DC 380-35 VALVE
SET: 35 bar/507.5 psi
17.5 bar/253.75 psi
8.7 bar/126.87 psi



Nm3/h	10	20	30	40	50
Nl/min	166	333	500	666	833
Sl/min	176	352	527	703	879
SCFM	3,2	12,4	18,6	24,8	31,0

FLOW in nitrogen (N_2)

PRODUCT CONFIGURATOR

	Body material		Pressure inlet		Port configuration		Outlet pressure		Inlet connection		Outlet connection		Pressure gauges	
DC	L		280		R		10		N		N		1	
	Chrome-plated brass	L	200 bar 2,900 psi	280	Right inlet	R	1.5 bar 21.75 psi	1,5	¼" NPT	N	¼" NPT	N	With	1
	Stainless steel	I	300 bar 4,350 psi	380			4 bar 58 psi	4						
							10 bar 145 psi	10						
							16 bar 232 psi	16						
							35 bar 508 psi	35						

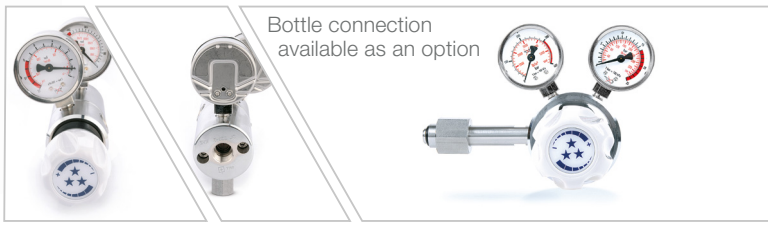
D 230 SERIES
DUAL-STAGE HP REGULATOR

APPLICATIONS

- Designed for applications requiring cylinder regulators
- Perfectly suited to pure, inert and slightly corrosive gas applications requiring exceptionally stable outlet pressure, as well as highly sensitive parameterization of the same outlet pressure

KEY FEATURES

- Based on proven S 20 bellows technology
- Exceptionally precise pressure control and stable outlet pressure thanks to combined piston and bellows technology
- Compact, ergonomic and lightweight



TECHNICAL DATA

Female connections
16 x 1.336 (inlet) - G 3/8 (outlet)
or ¼" NPT (inlet/outlet)

Weight
± 1.6 kg / ± 3.5 lbs

Inlet pressure
200 bar / 2,900 psi

Seat gasket
PTFE

Leakage rate
10^{-8} mbar ℓ/s He

Adjustable outlet pressure
1 / 3 / 10 bar
14.5 / 44 / 145 psi

O-ring seal
EPDM

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Nominal flow
2 / 2.5 / 3.5 $Nm^3/h(N_2)$

Piston
Brass (brass version)
AISI 316L (SS version)

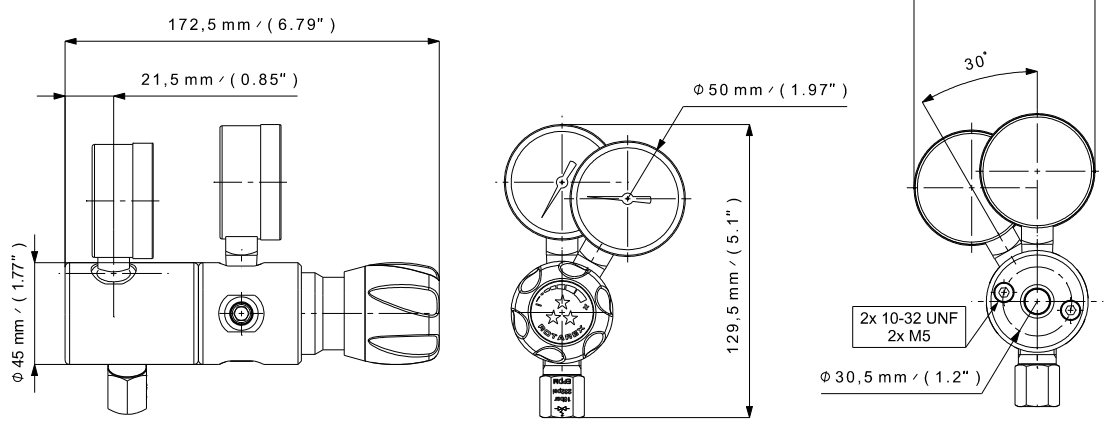
Pressure gauges
High and low pressure (M10 x 1 or ¼" NPT)

Oxygen use
Brass only

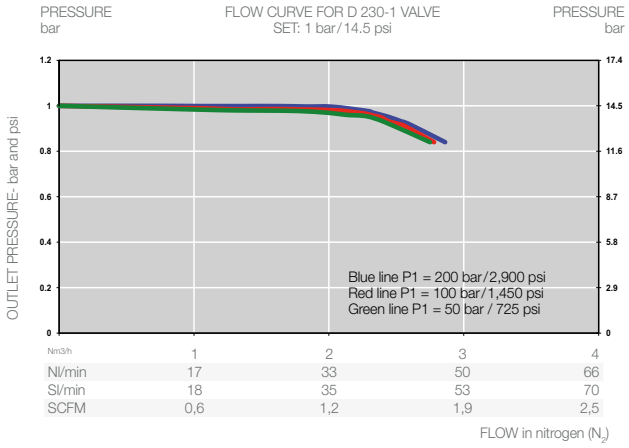
Bellows
Bronze or AISI 316L (SS version)

Inlet position
Rear

Outlet position
Right

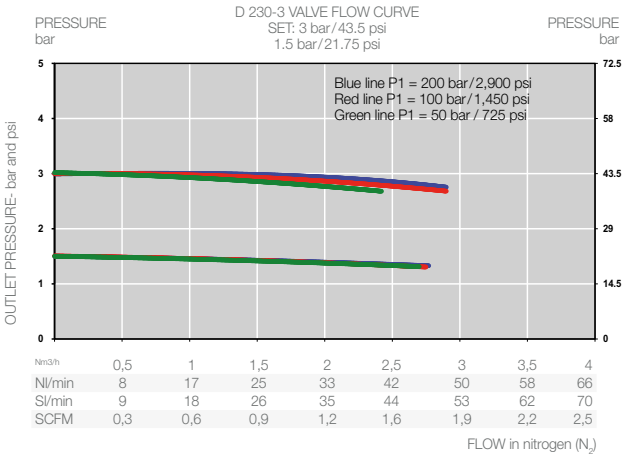


FLOW CURVES



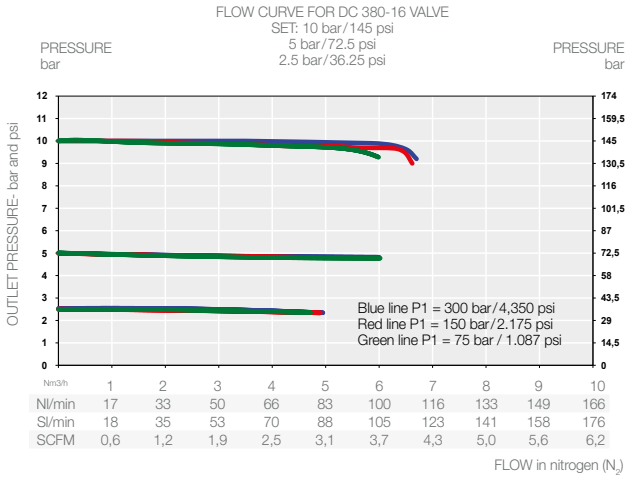
Nm3/h	1	2	3	4
Nl/min	17	33	50	66
Sl/min	18	35	53	70
SCFM	0,6	1,2	1,9	2,5

FLOW in nitrogen (N_2)



Nm3/h	0,5	1	1,5	2	2,5	3	3,5	4
Nl/min	8	17	25	33	42	50	58	66
Sl/min	9	18	26	35	44	53	62	70
SCFM	0,3	0,6	0,9	1,2	1,6	1,9	2,2	2,5

FLOW in nitrogen (N_2)



Nm3/h	1	2	3	4	5	6	7	8	9	10
Nl/min	17	33	50	66	83	100	116	133	149	166
Sl/min	18	35	53	70	88	105	123	141	158	176
SCFM	0,6	1,2	1,9	2,5	3,1	3,7	4,3	5,0	5,6	6,2

FLOW in nitrogen (N_2)

PRODUCT CONFIGURATOR

	Body material			Outlet pressure		Connection		O-ring material	Pressure gauges		Steering wheel	
D	L		230	10		N		EPDM	1		H	
	Chrome-plated brass	L		1 bar 14.5 psi	1	Inlet: 16 x 1.336 Outlet: G 3/8	16	EPDM	With	1	With	H
	Stainless steel	I		3 bar 44 psi	3	¼" NPT - ¼" NPT	N					
				10 bar 145 psi	10							

*Left entrance on request

SERIES D 230 - 0.1
DUAL-STAGE HP REGULATOR

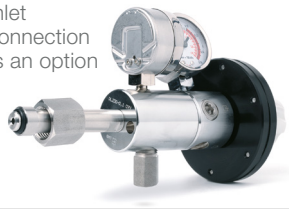
APPLICATIONS

- Designed for applications requiring cylinder regulators
- Perfectly suited to pure, inert and slightly corrosive gas applications requiring very stable, sensitive and low outlet pressure

KEY FEATURES

- Based on the proven SL20 - 0.1 low-pressure regulator
- Ensures low, stable flow thanks to a combination of piston and diaphragm technologies
- Rear thread can be used for wall mounting
- Can be fitted with needle valve or stopcock at outlet

View of rear inlet with bottle connection available as an option



TECHNICAL DATA

Female connections
16 x 1.336 (inlet) - G 3/8 (outlet)
or ¼" NPT (inlet/outlet)

Weight
± 1.5 kg / ± 3.3 lbs

Inlet pressure
200 bar / 2,900 psi

Seat gasket
PTFE

Leakage rate
10^{-8} mbar ℓ/s He

Adjustable outlet pressure
0.01 / 0.1 bar
0.14 / 1.45 psi

O-ring seal
EPDM

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Nominal flow
0.5 $Nm^3/h(N_2)$

Piston
Brass (brass version)
AISI 316L (SS version)

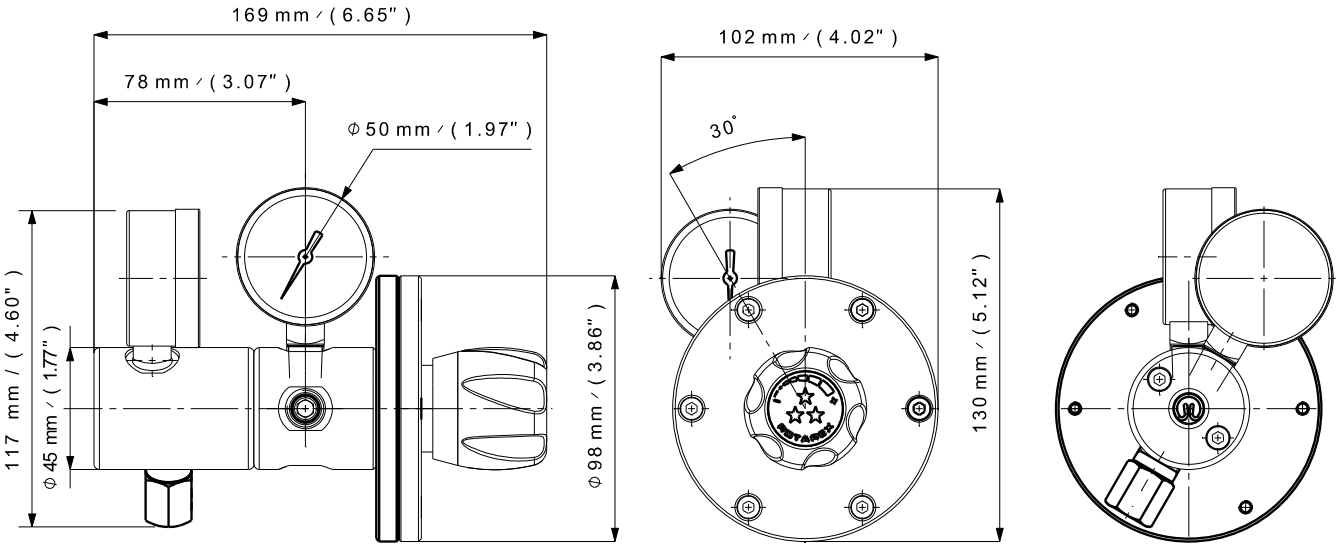
Pressure gauges
High and low pressure (M10 x 1 or ¼" NPT)

Oxygen use
Brass only

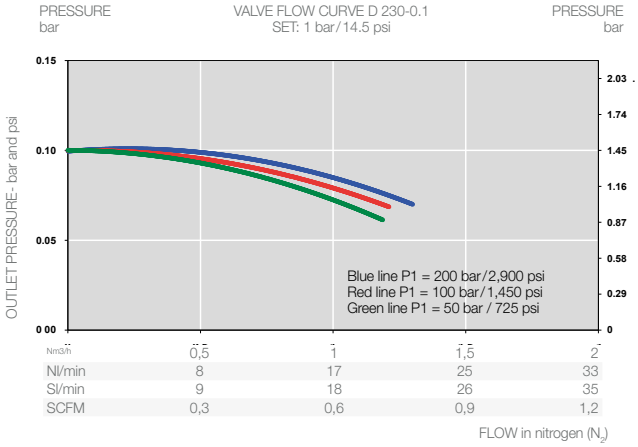
Diaphragm
AISI 304

Inlet position
Rear

Outlet position
Right



FLOW CURVES



PRODUCT CONFIGURATOR

	Body material			Connection		O-ring material	Pressure gauges	
D	L	230	0.1	N		EPDM	1	
	Chrome-plated brass	L		Inlet: 16 x 1.336 Outlet: G 3/8	16	EPDM	With	1
	Stainless steel*	I		¼" NPT	N			

* Stainless steel version only with NPT connection

SPECYL 25 SERIES
SINGLE-STAGE BP REGULATOR

APPLICATIONS

- Designed for applications requiring cylinder regulators
- Perfectly suited to corrosive gases in ultra-high-purity applications and fundamental research laboratories
- Suitable for corrosive liquid gases

KEY FEATURES

- No risk of contamination thanks to threadless, springless design
- Low dead volume to ensure proper purging of the regulator
- Ergonomic steering wheel for exceptional control
- Can be panel-mounted thanks to rear thread
- Can be fitted with shut-off valve or needle valve at outlet

Bottle connection available as an option

TECHNICAL DATA

Female connections
¼ NPT (inlet outlet)

Seat gasket
PCTFE

O-ring seal
EPDM

Diaphragm
Hastelloy®

Inlet position
Left*

Weight
± 2.0 kg / ± 4.4 lbs

Leakage rate
3.10^{-9} mbar ℓ/s He

Operating temperature
-40 °C to +60 °C / -40 °F to +140 °F

Pressure gauges
High and low pressure(¼" NPT)

Outlet position
Right*

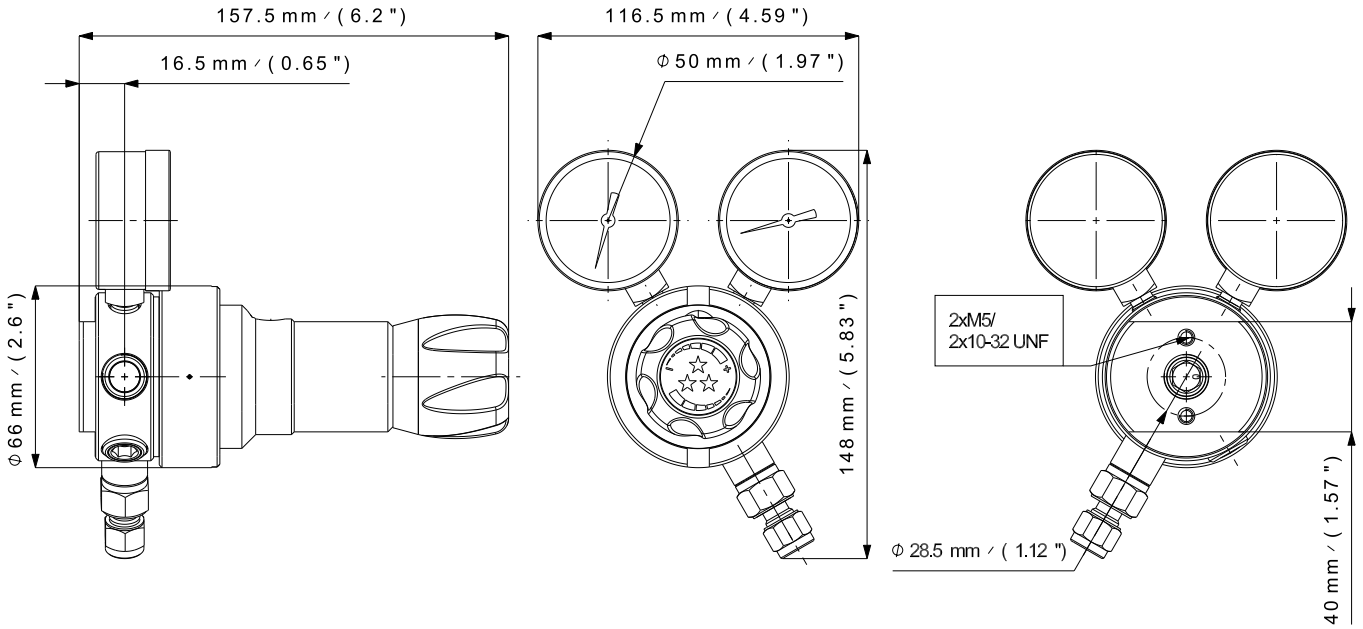
Inlet pressure
25 bar / 363 psi

Adjustable outlet pressure
3 / 8 bar
44 / 116 psi

Nominal flow
5 / 12.5 $Nm^3/h(N_2)$

Oxygen use
Only brass ≤ 25 bar max.

*Inlet: Right / Outlet: Left -> on request



PRODUCT CONFIGURATOR

	Body material		Outlet pressure		Connections		Materials O-ring (safety valve)	Pressure gauges		Port configuration	
S	I		SPECYL	15		N		EPDM	1		LR
	Stainless steel	I		3 bar 44 psi	3	¼ NPT	N	EPDM	With	1	Standard	LR
				8 bar 116 psi	8							

S SERIES 10
LINE REGULATOR

APPLICATIONS

- Designed as a second-stage line regulator for laboratory applications such as gas supply for inductively coupled plasma spectrometers, shielding and carrier gases for chromatography, environmental emission monitoring, industrial hygiene or safety monitoring and trace impurity analyzers.

KEY FEATURES

- Excellent pressure consistency thanks to balanced valve technology
- Can be used for many applications requiring high flow rates
- Wall or panel mounting possible thanks to compact design, rear thread and mounting ring
- Longer valve life and lower total cost of ownership

TECHNICAL DATA

Female connections
G 3/8 or ¼" NPT (inlet/outlet)

Seat gasket
FPM / EPDM

O-ring seal
EPDM

Diaphragm
AISI 304 (brass version)
Hastelloy® (SS version)

Inlet position
Left

Weight
± 0.6 kg / ± 1.32 lbs

Leakage rate
10^{-8} mbar ℓ/s He

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Pressure gauges
Low pressure (M10 x 1 or ¼" NPT)

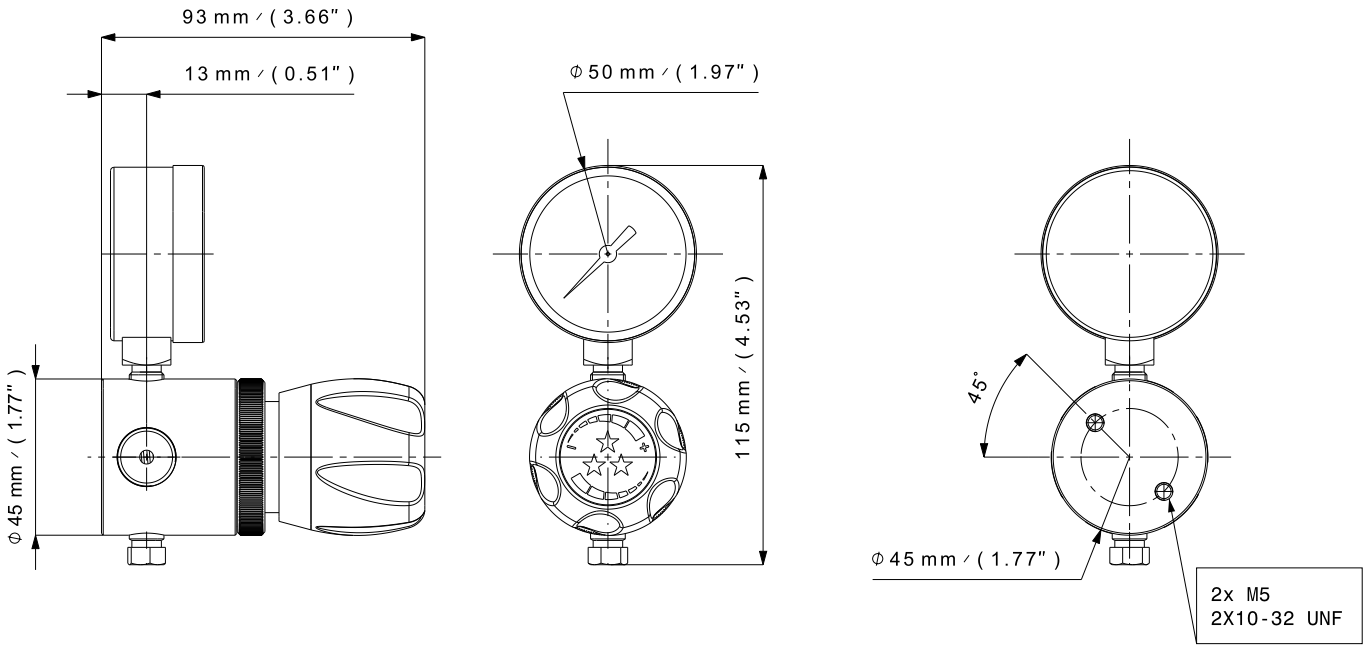
Outlet position
Right

Max. inlet pressure
25 bar / 362.5 psi

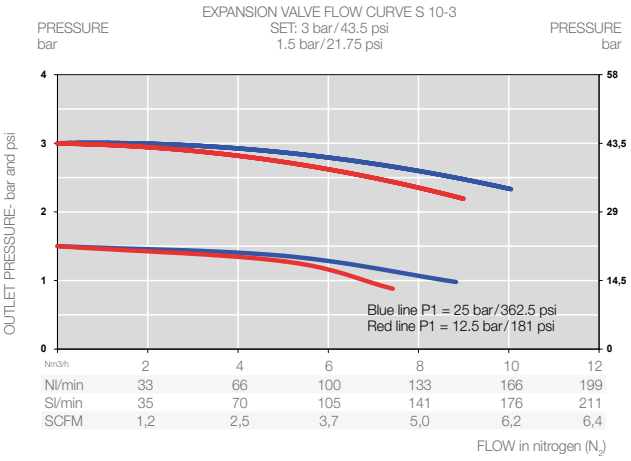
Adjustable outlet pressure
3 / 8 bar
44 / 116 psi

Nominal flow
4.5 / 12 $Nm^3/h(N_2)$

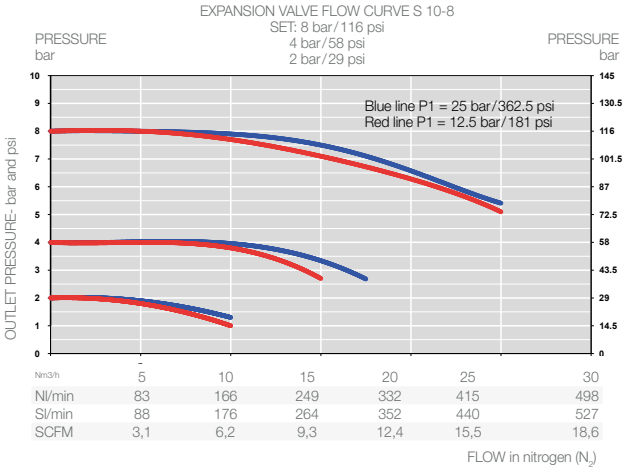
Oxygen use
OK with brass and stainless steel



FLOW CURVES



Nm3/h	2	4	6	8	10	12
Nl/min	33	66	100	133	166	199
Sl/min	35	70	105	141	176	211
SCFM	1,2	2,5	3,7	5,0	6,2	6,4



Nm3/h	5	10	15	20	25	30
Nl/min	83	166	249	332	415	498
Sl/min	88	176	264	352	440	527
SCFM	3,1	6,2	9,3	12,4	15,5	18,6

PRODUCT CONFIGURATOR

	Body material			Outlet pressure		Connection		O-ring material	Pressure gauges		Assembly	
S	L		10	8		G		EPDM	1		EN0	
	Chrome-plated brass	L		3 bar 44 psi	3	G 3/8 - G 3/8	G	EPDM	With	1	Without ring fastening	FR0
	Stainless steel	I		8 bar 116 psi	8	¼" NPT - ¼" NPT	N				With fixing ring*	FR1

*Optional

S SERIES 15
LINE REGULATOR

APPLICATIONS

- Use as a line regulator for industrial or laboratory applications at high flow rates.

KEY FEATURES

- Excellent pressure consistency thanks to balanced valve technology
- Can be used for many applications requiring high flow rates
- Can be wall- or panel-mounted thanks to compact design and rear thread
- Longer valve life and lower total cost of ownership

TECHNICAL DATA

Female connections
G 3/8 or ¼" NPT (inlet/outlet)

Seat gasket
FPM / EPDM

O-ring seal
EPDM

Diaphragm
AISI 304 (brass version)
Hastelloy® (SS version)

Inlet position
Left

Weight
± 1.2 kg / ± 2.64 lbs

Leakage rate
10^{-8} mbar ℓ/s He

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Pressure gauges
Low pressure (M10 x 1 or ¼" NPT)

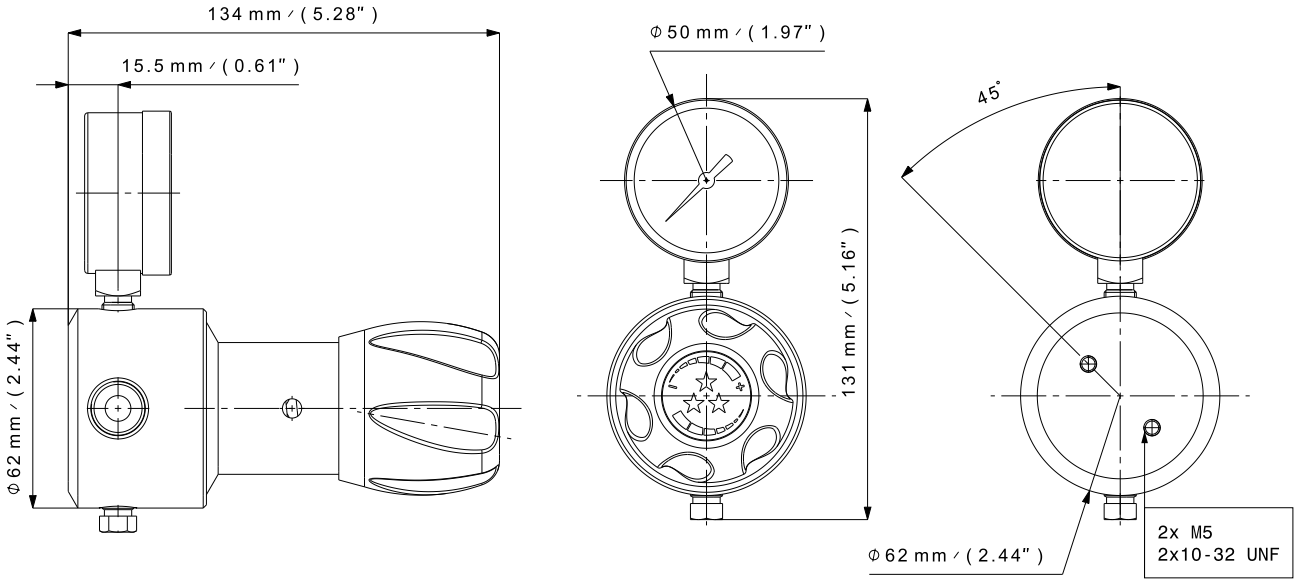
Outlet position
Right

Max. inlet pressure
25 bar / 362.5 psi

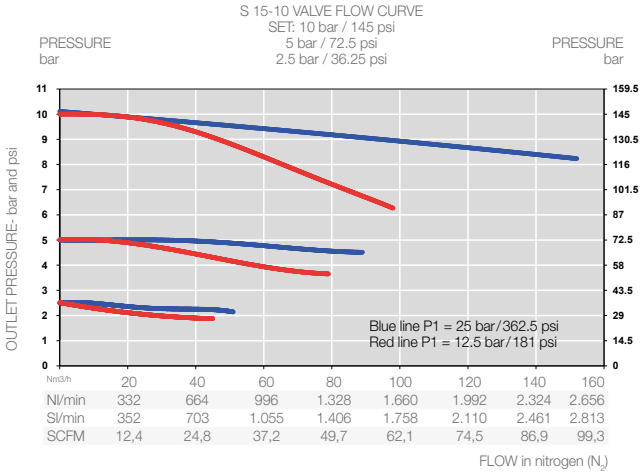
Adjustable outlet pressure
10 bar / 145 psi

Nominal flow
50 $Nm^3/h(N_2)$

Oxygen use
OK with brass and stainless steel



FLOW CURVES



PRODUCT CONFIGURATOR

	Body material			Outlet pressure		Connection		O-ring material		Pressure gauges		Port configuration	
S	L		15	10		G		EPDM		1		L	
	Chrome-plated brass	L		10 bar / 145 psi	10	G 3/8 - G 3/8	G	EPDM		With	1	Entrance on the left	L
	Stainless steel	I				¼" NPT - ¼" NPT	N					Entrance on the right	R

*Optional

S SERIES 20
LINE REGULATOR

APPLICATIONS

- Used as a line or point-of-use regulator for specialty gas applications requiring very precise repeatability and high-precision outlet pressure.
- Perfectly suited for laboratory applications such as: gas supply for inductively coupled plasma spectrometer, shielding gas and chromatography support gas.

KEY FEATURES

- Bellows technology provides a wide range of precise outlet pressures in a compact design.
- Can be used for wall or panel mounting thanks to its compact design, rear threads and fixing ring (optional).
- Acetylene version available: S 20 AD & S 25 AD series

TECHNICAL DATA

Female connections
G 3/8 or ¼" NPT (inlet/outlet)

Weight
± 0.5 kg / ± 1.1 lbs

Max. inlet pressure
50 bar / 725 psi
AD: 20 bar/290 psi

Seat gasket
EPDM

Leakage rate
10^{-8} mbar ℓ/s He

Adjustable outlet pressure
1 / 3 / 10 bar
14.5 / 44 / 145 psi
AD: 1.5 bar/ 21.75 psi

O-ring seal
EPDM

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Nominal flow
2 / 2.5 / 3.5 Nm³/h(N_2)
AD: 1.5 Nm³/h(N_2)

Bellows
Bronze or AISI 316L (SS version)

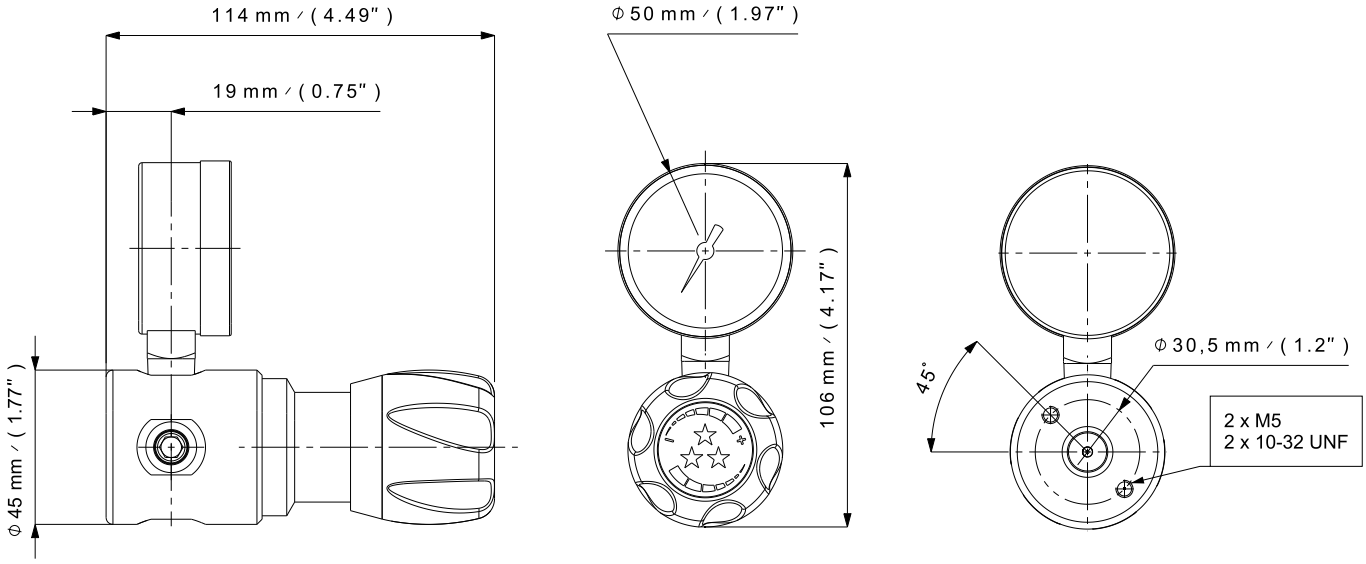
Pressure gauges
Low pressure (M10 x 1 or ¼" NPT)

Oxygen use
Inlet pressure less than or equal to 30 bar

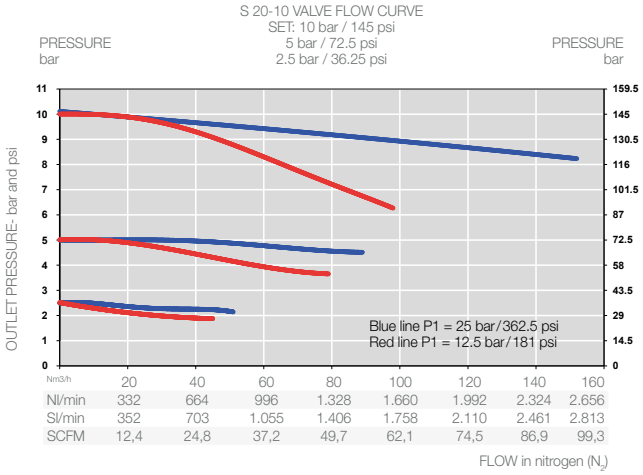
Inlet position
Standard rear* inlet

Outlet position
Low standard outlet* (standard)

Standard configurations. All other configurations on request



FLOW CURVES



PRODUCT CONFIGURATOR

	Body material			Outlet pressure		Connection		O-ring material	Pressure gauges		Assembly		Port configuration	
S	L		20	10		G		EPDM	1		EN0		A	
	Chrome-plated brass	L		1 bar / 14.5 psi	1	G 3/8 - G 3/8	G	EPDM	With	1	Without fixing ring	FR0	Standard configuration	A
	Stainless steel	I		3 bar / 44 psi	3	¼" NPT - ¼" NPT	N				With fixing ring	FR1	Entrance on the right	R
				10 bar / 145 psi	10									
				Acetylene version 1.5 bar (21.75 psi)	AD									

*Optional

S 20 SERIES - 0.1
LINE REGULATOR

APPLICATIONS

- The S 20 - 0.1 series is used as a line regulator for laboratory applications requiring low outlet pressures below 100 mbar (1.45 psi).

KEY FEATURES

- Very low outlet pressure
- Rear thread for wall mounting

Rear entrance view

TECHNICAL DATA

Female connections
G 3/8 or ¼" NPT (inlet/outlet)

Seat gasket
EPDM

O-ring seal
EPDM

Diaphragm
AISI 304

Outlet position
Right

Weight
± 0.6 kg / ± 1.32 lbs

Leakage rate
10^{-8} mbar ℓ/s He

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Pressure gauges
Low pressure (M10 x 1 or ¼" NPT)

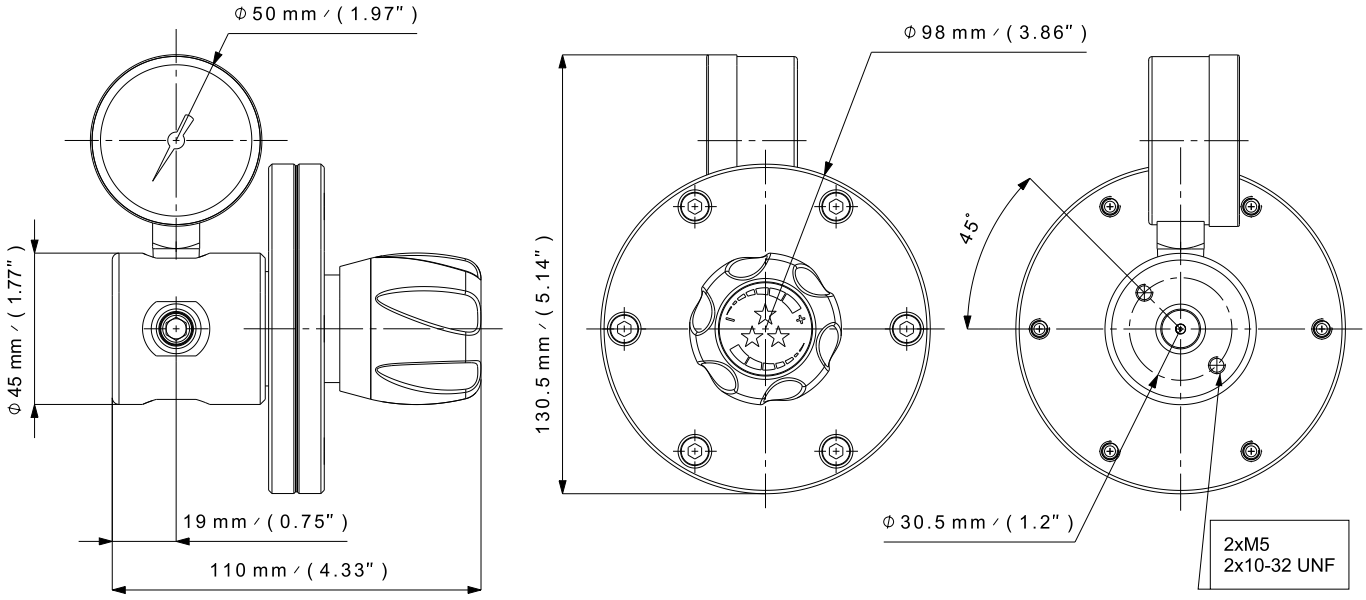
Max. inlet pressure
50 bar / 725 psi

Adjustable outlet pressure
0.01 / 0.1 bar
0.14 / 1.45 psi

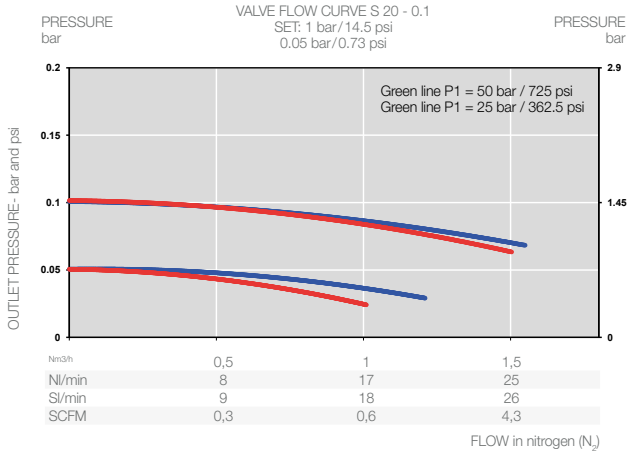
Nominal flow
0.5 $Nm^3/h(N_2)$

Inlet position
Rear*

*Right-hand entrance on request



FLOW CURVES



PRODUCT CONFIGURATOR

	Body material			Connection		O-ring material	Pressure gauges		Port configuration		Assembly	
S	L		20	0.1	G		EPDM	1	A		FR0	
	Chrome-plated brass	L		G 3/8 - G 3/8	G	EPDM	With	1	Configuration standard	A	Without ring fastening	FR0
	Stainless steel*	I		¼" NPT - ¼" NPT	N				Entrance on the right	R		

* Stainless steel version only with NPT connection

S SERIES 55
LINE REGULATOR

APPLICATIONS

- Designed for line regulator applications in petrochemical, industrial and laboratory environments
- Used in calibration gas mixtures for the petrochemical industry; environmental emissions monitoring, industrial hygiene or safety and trace impurity analyzers
- Also often used to supply oxygen to fish breeding tanks

KEY FEATURES

- Exceptionally precise pressure
- Flexible wall or panel mounting options
- Compact, low-ownership design

Rear entrance view

TECHNICAL DATA

Female connections
G 3/8 or ¼" NPT (inlet/outlet)

Seat gasket
EPDM

O-ring seal
EPDM

Diaphragm
AISI 304 (3/8/10 bar)
Hastelloy® (16/35 bar)

Inlet position
Rear

Weight
± 0.8 kg/± 1.8 lbs

Leakage rate
10^{-8} mbar ℓ/s He

Operating temperature
-20 °C to +60 °C/-4 °F to +140 °F

Pressure gauges
Low pressure (M10 x 1 or ¼" NPT)

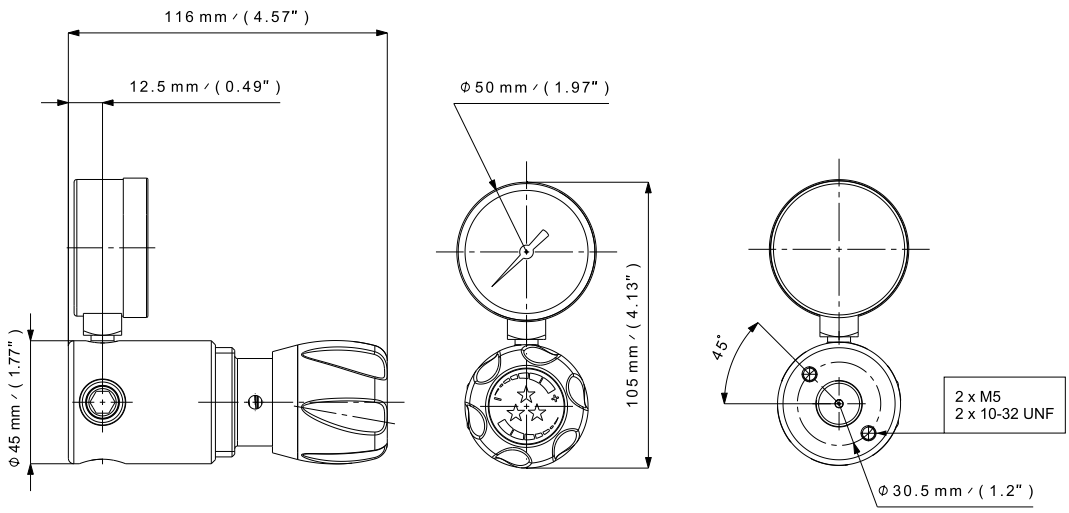
Outlet position
Bottom

Max. inlet pressure
50 bar/725 psi

Adjustable outlet pressure
3/10/16/35 bar
44/145/232/508 psi

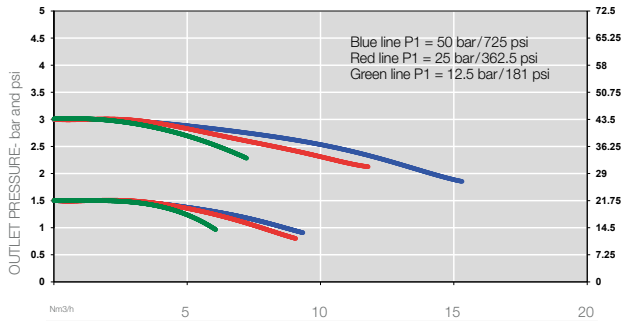
Nominal flow
2.5/3.5/5.5/10 $Nm^3/h(N_2)$

Oxygen use
Inlet pressure ≤ 30 bar max.
for brass version



FLOW CURVES

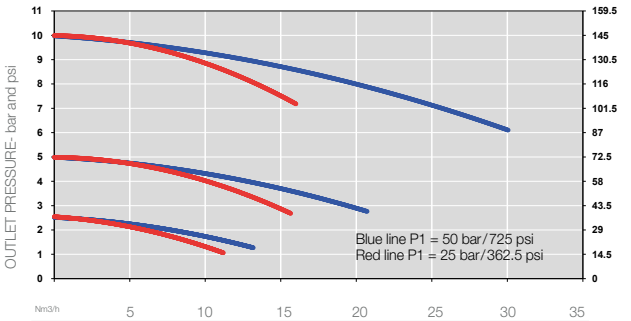
S 55-3 VALVE FLOW CURVE
SET: 3 bar/43.5 psi
1.5 bar/21.75 psi



Nm3/h	5	10	15	20
Nl/min	83	166	249	332
Sl/min	88	176	264	352
SCFM	3,1	6,2	9,3	12,4

FLOW in nitrogen (N_2)

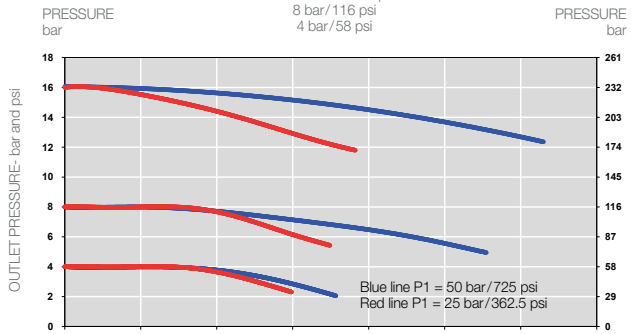
S 55-10 VALVE FLOW CURVE
SET: 10 bar/145 psi
5 bar/72.5 psi
2.5 bar/36.35 psi



Nm3/h	5	10	15	20	25	30	35
Nl/min	83	166	249	332	415	498	581
Sl/min	88	176	264	352	440	527	615
SCFM	3,1	6,2	9,3	12,4	15,5	18,6	21,7

FLOW in nitrogen (N_2)

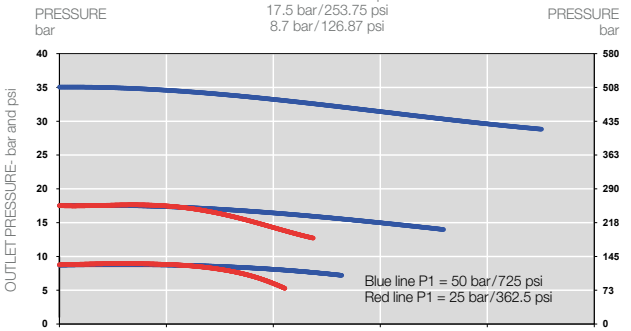
FLOW CURVE FOR VALVE S 55-16
SET: 16 bar/232 psi
8 bar/116 psi
4 bar/58 psi



Nm3/h	5	10	15	20	25	30	35
Nl/min	83	166	249	332	415	498	581
Sl/min	88	176	264	352	440	527	615
SCFM	3,1	6,2	9,3	12,4	15,5	18,6	21,7

FLOW in nitrogen (N_2)

FLOW CURVE FOR DC 380-35 VALVE
SET: 35 bar/507.5 psi
17.5 bar/253.75 psi
8.7 bar/126.87 psi



Nm3/h	5	10	15	20	25
Nl/min	83	166	249	332	415
Sl/min	88	176	264	352	440
SCFM	3,1	6,2	9,3	12,4	15,5

FLOW in nitrogen (N_2)

PRODUCT CONFIGURATOR

	Body material		Outlet pressure		Connection		O-ring material	Pressure gauges		Assembly		Port configuration	
S	L	55	35		G		EPDM	1		FR1		A	
	Chrome-plated brass	L	3 bar/44 psi	3	G 3/8 - G 3/8	G	EPDM	With	1	Without fixing ring	FR0	Configuration standard	A
			10 bar/ 145 psi	10	¼" NPT - ¼" NPT	N				With fixing ring*	FR1		
			16 bar/ 232 psi	16									
			35 bar/ 508 psi	35									

*FR1 not available with 35 bar version

DC 50 SERIES
HIGH-FLOW LINE REGULATOR

APPLICATIONS

- For all low-pressure applications requiring high flow rates
- Perfectly suited for use as a line regulator in conjunction with a MOD expansion module or a CEN central inversion unit

KEY FEATURES

- Excellent pressure consistency thanks to balanced valve technology
- Longer service life and lower cost of ownership
- Must be installed with flashback arrestor for use with acetylene
- Acetylene version available (AD)

TECHNICAL DATA

Female connections
G ½" or ½" NPT (inlet/outlet)

Weight
± 1.4 kg / ± 3.1 lbs

Max. inlet pressure
50 bar / 725 psi
AD: 1.5 bar (21.75)

Seat gasket
EPDM

Leakage rate
10^{-3} mbar ℓ/s He

Adjustable outlet pressure
8 / 15 / 40 bar
116 / 217 / 580 psi
AD: 0.8 bar (12 psi)

O-ring seal
EPDM

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Nominal flow
150 / 300 / 300 Nm^3/h (N_2)
10 Nm^3/h (AD)

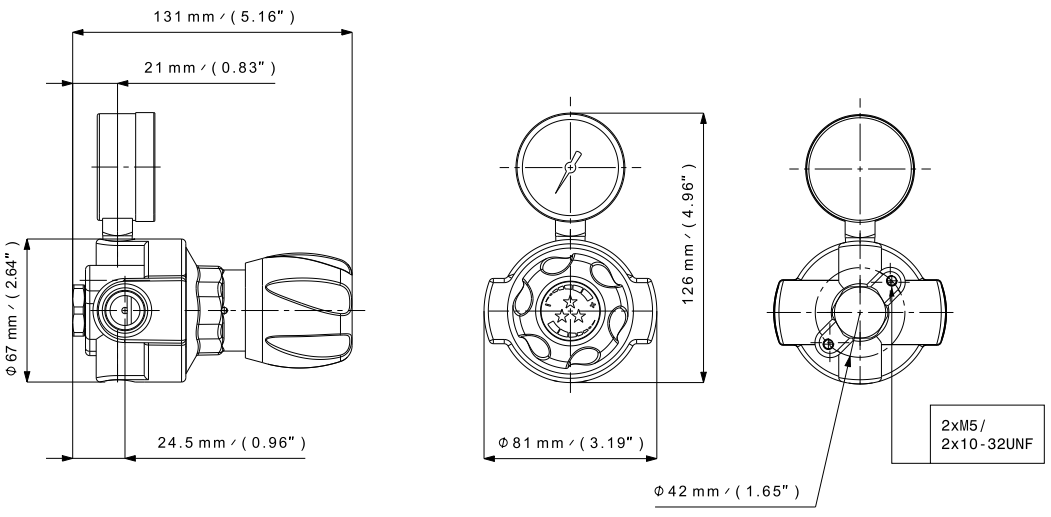
Diaphragm
EPDM

Pressure gauges
Low pressure (G ¼ or ¼ NPT)

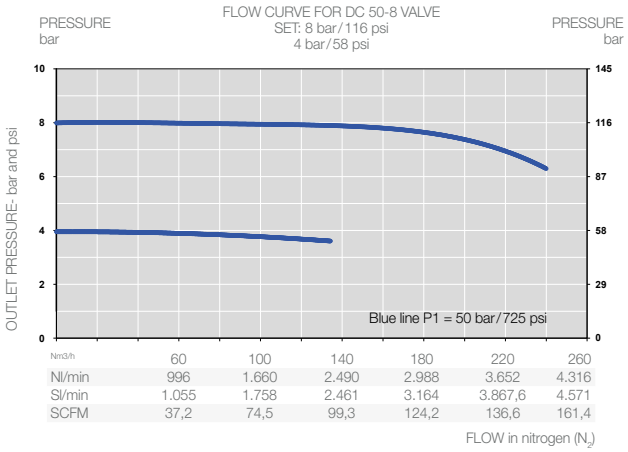
Oxygen use
Ok

Inlet position
Left

Outlet position
Bottom

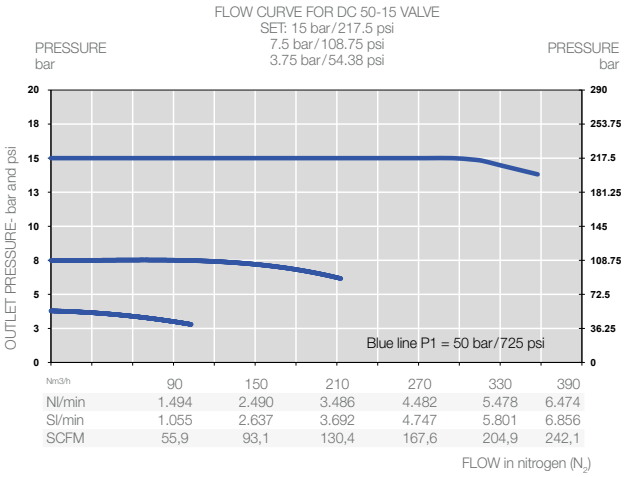


FLOW CURVES



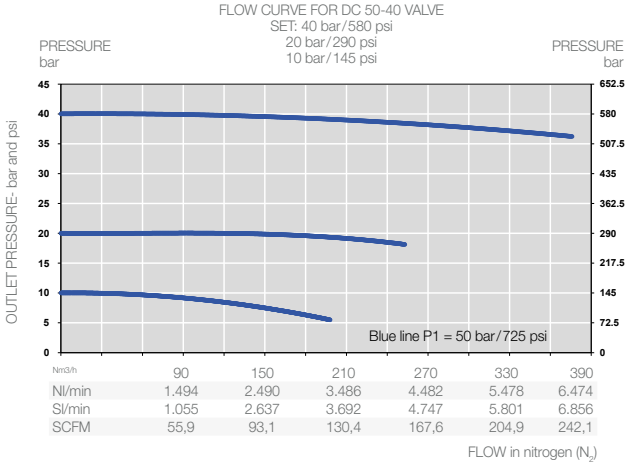
Nm3/h	60	100	140	180	220	260
Nl/min	996	1.660	2.490	2.988	3.652	4.316
Sl/min	1.055	1.758	2.461	3.164	3.867,6	4.571
SCFM	37,2	74,5	99,3	124,2	136,6	161,4

FLOW in nitrogen (N_2)



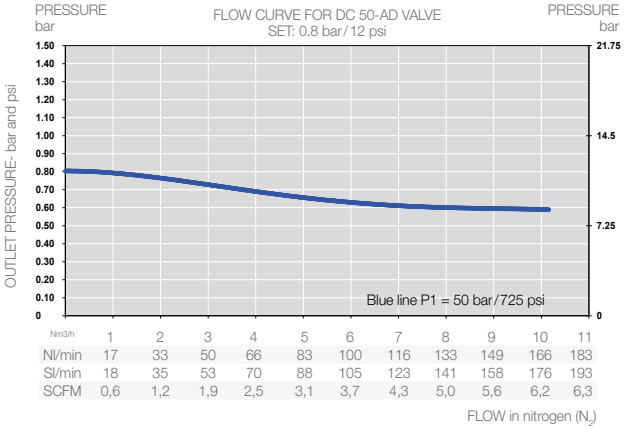
Nm3/h	90	150	210	270	330	390
Nl/min	1.494	2.490	3.486	4.482	5.478	6.474
Sl/min	1.055	2.637	3.692	4.747	5.801	6.856
SCFM	55,9	93,1	130,4	167,6	204,9	242,1

FLOW in nitrogen (N_2)



Nm3/h	90	150	210	270	330	390
Nl/min	1.494	2.490	3.486	4.482	5.478	6.474
Sl/min	1.055	2.637	3.692	4.747	5.801	6.856
SCFM	55,9	93,1	130,4	167,6	204,9	242,1

FLOW in nitrogen (N_2)



Nm3/h	1	2	3	4	5	6	7	8	9	10	11
Nl/min	17	33	50	66	83	100	116	133	149	166	183
Sl/min	18	35	53	70	88	105	123	141	158	176	193
SCFM	0,6	1,2	1,9	2,5	3,1	3,7	4,3	5,0	5,6	6,2	6,3

FLOW in nitrogen (N_2)

PRODUCT CONFIGURATOR

			Outlet pressure		Connection		O-ring material	Body material		Pressure gauges	
D	C	50	40		G		EPDM	L		1	
			8 bar/116 psi	8	G ½"	G	EPDM	Chrome-plated brass	L	With	1
			15 bar/217 psi	15	½" NPT - ½" NPT	N					
			40 bar/580 psi	40							
			Acetylene version 0.8 bar (12 psi)	AD							

SERIES S 21
POINT OF USE

APPLICATIONS

- Used as line regulator or point-of-use for specialty gas applications

KEY FEATURES

- Bellows technology enables a wide range of precise outlet pressures in a compact design
- Flexible wall or panel mounting options
- Must be installed with flashback arrestor for use with acetylene
- Acetylene version available (AD)

Needle valve RD10

TECHNICAL DATA

Female connections
G 3/8 or ¼" NPT (inlet/outlet)

Weight
+- 0.9 kg / +- 2.0lbs

Max. inlet pressure
50 bar/725 psi
AD: 20 bar (290 psi)

Seat gasket
EPDM

Leakage rate
10^{-3} mbar ℓ/s He

Adjustable outlet pressure
1/3/10 bar
14.5/44/145 psi
AD: 1.5 bar (21.75 psi)

O-ring seal
EPDM

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Nominal flow
2/2.5/3.5 Nm³/h (N_2)
AD: 1 Nm³/h

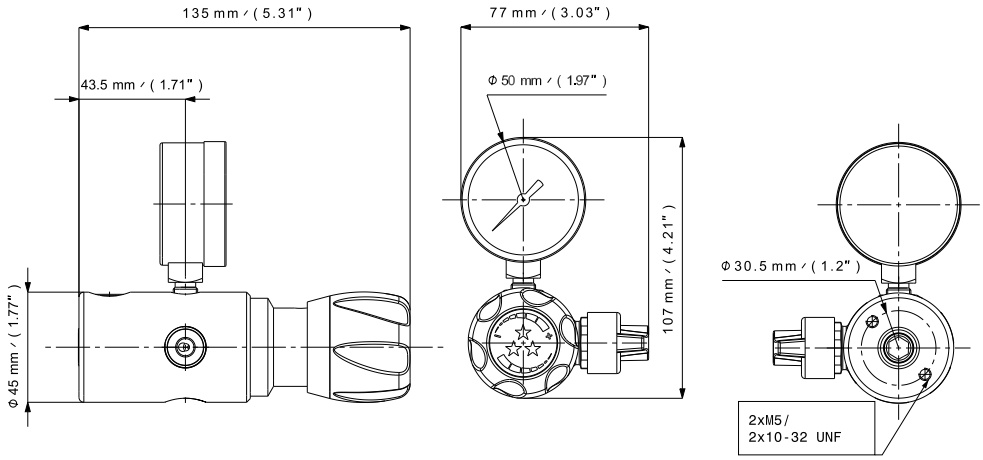
Diaphragm
EPDM - standard/FMP

Pressure gauges
Low pressure (G ¼ or ¼ NPT)

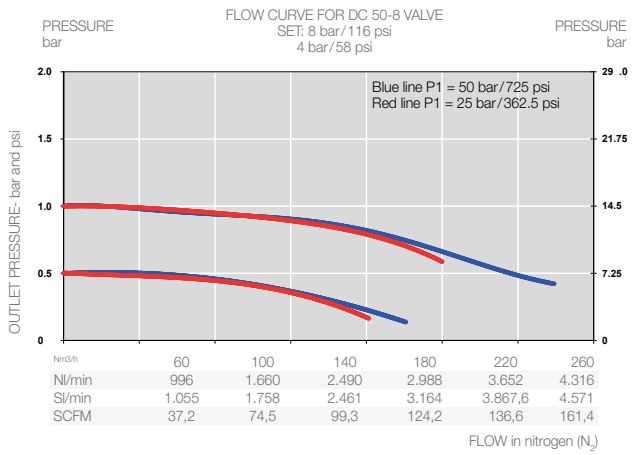
Oxygen use
Oxygen use: OK with inlet pressure ≤ 30 bar max.

Inlet position
Left

Outlet position
Bottom

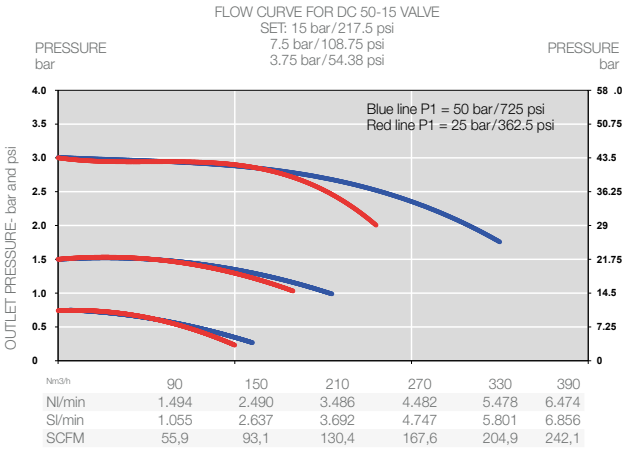


FLOW CURVES



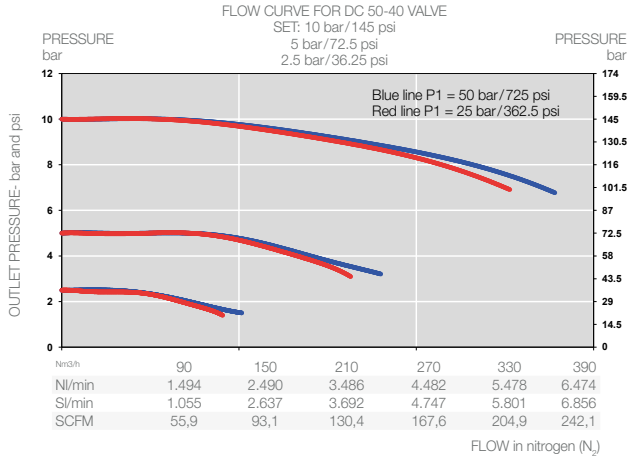
Nm3/h	60	100	140	180	220	260
Nl/min	996	1.660	2.490	2.988	3.652	4.316
Sl/min	1.055	1.758	2.461	3.164	3.867,6	4.571
SCFM	37,2	74,5	99,3	124,2	136,6	161,4

FLOW in nitrogen (N_2)



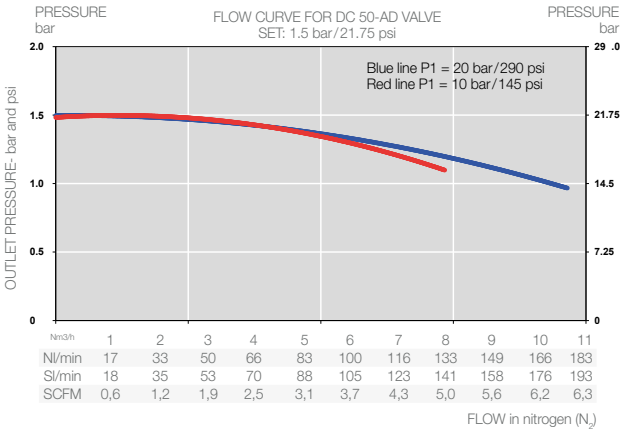
Nm3/h	90	150	210	270	330	390
Nl/min	1.494	2.490	3.486	4.482	5.478	6.474
Sl/min	1.055	2.637	3.692	4.747	5.801	6.856
SCFM	55,9	93,1	130,4	167,6	204,9	242,1

FLOW in nitrogen (N_2)



Nm3/h	90	150	210	270	330	390
Nl/min	1.494	2.490	3.486	4.482	5.478	6.474
Sl/min	1.055	2.637	3.692	4.747	5.801	6.856
SCFM	55,9	93,1	130,4	167,6	204,9	242,1

FLOW in nitrogen (N_2)



Nm3/h	1	2	3	4	5	6	7	8	9	10	11
Nl/min	17	33	50	66	83	100	116	133	149	166	183
Sl/min	18	35	53	70	88	105	123	141	158	176	193
SCFM	0,6	1,2	1,9	2,5	3,1	3,7	4,3	5,0	5,6	6,2	6,3

FLOW in nitrogen (N_2)

PRODUCT CONFIGURATOR

	Body material			Outlet pressure		Connection		O-ring material	Pressure gauges		Plate	
S	L		S 21	10		G		EPDM	1		STD	
	Chrome-plated brass	L		1 bar/14.5 psi	1	G 3/8" - G 3/8"	G	EPDM	With	1	Without plate	STD
	Stainless steel	I		3 bar/44 psi	3	¼" NPT - ¼" NPT	N				With metal plate*	M
				10 bar/145 psi	10							
				Acetylene version 1.5 bar (21.75 psi)	AD							

*Optional

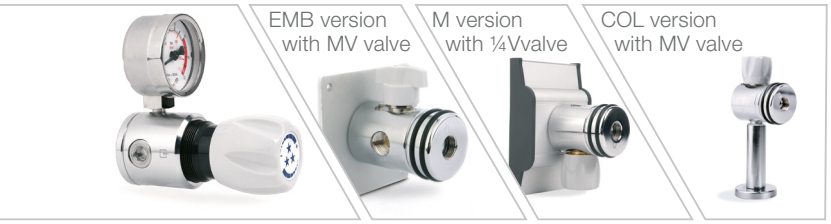
S SERIES 22
MODULAR POINT-OF-USE

APPLICATIONS

- A point of use or end of line

KEY FEATURES

- Bellows technology offers a wide range of precise outlet pressures in a compact design
- Modular concept with 3 different configurations available
- Must be installed with flame arrestor for use with acetylene
- Acetylene version available (AD)



TECHNICAL DATA

Female connections

F: G ¼" (COL inlet version) G3/8"
or ¼" NPT (outlet), G3/8" (Inlet/Outlet),
¼" NPT (Inlet/Outlet)

Weight

± 1.5 kg / ± 3.3 lbs

Max. inlet pressure

50 bar / 725 psi
AD: 20 bar (290)

Seat gasket

EPDM

Leakage rate

10^{-8} mbar ℓ/s He

Adjustable outlet pressure

1 / 3 / 10 bar
14.5 / 44 / 145 psi
AD: 1.5 bar (21.75 psi)

O-ring seal

EPDM

Operating temperature

-20 °C to +60 °C / -4 °F to +140 °F

Nominal flow

2 / 2.5 / 3.5 Nm^3/h (N_2)
AD: 1 Nm^3/h

Diaphragm

Hastelloy®

Pressure gauges

Low pressure (M10 x 1 or ¼" NPT)

Oxygen use

Inlet pressure ≤ 30 bar max. for brass and stainless steel versions*

Bellows

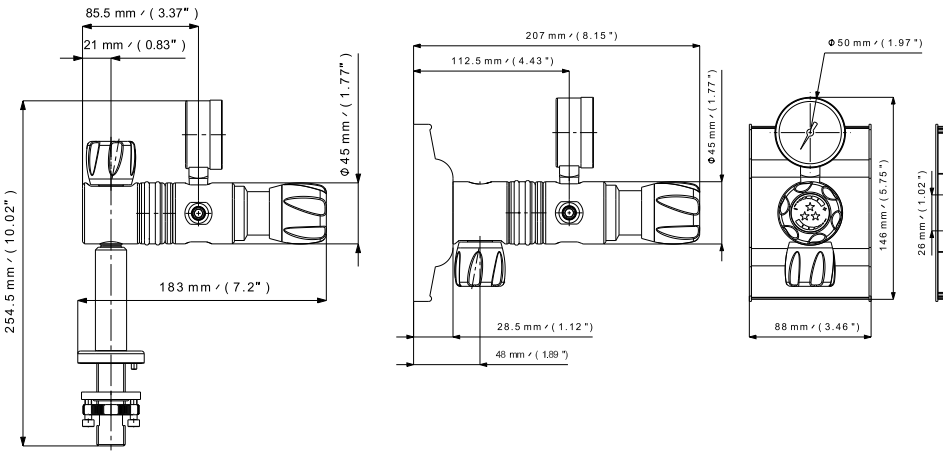
Bronze or AISI 316L (SS version)

Inlet position

Rear (COL) or Top (EMB)

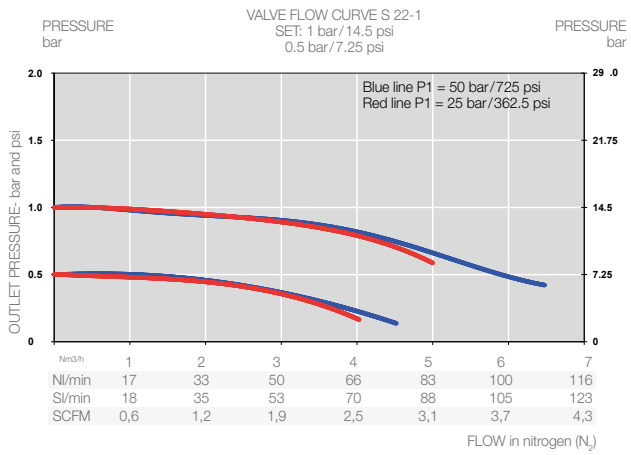
Outlet position

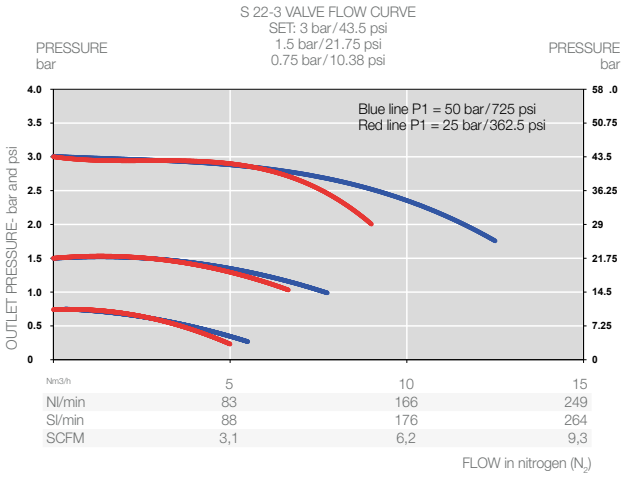
Left (COL) or Right (EMB)

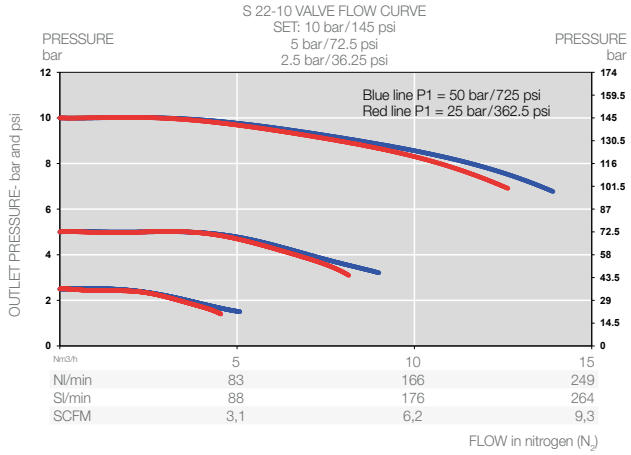


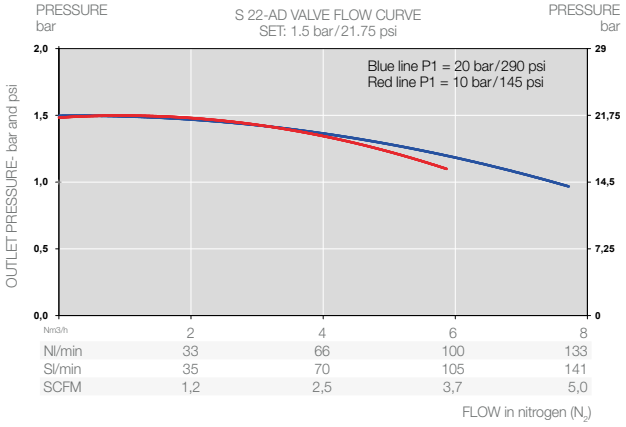
* Acetylene version:
Inlet: Back
Outlet: Bottom

FLOW CURVES









PRODUCT CONFIGURATOR

	Body material			Version		Outlet pressure		Connection		O-ring material	Pressure gauges		Valve	
S	L		S 22	EMB		10		G		EPDM	1		¼V	
	Chrome-plated brass	L		With metal plate	M	1 bar/14.5 psi	1	G 3/8" - G 3/8"	G	EPDM	With	1	¼ turn valve	¼V
	Stainless steel	I		With aluminum support	EMB	3 bar/44 psi	3	¼" NPT - ¼" NPT	N				Multi-turn valve* (MIV)	MV
				With pillar	COL	10 bar/145 psi	10	Note: G ¼ inlet with COL version						
						Acetylene version 1.5 bar (21.75 psi)	AD							

*Multiturn valve (MV) only with pillar (COL)

MS 15 SERIES
MODULAR POINT-OF-USE

APPLICATIONS

- A point of use or end of line

KEY FEATURES

- Bellow technology offers a wide range of precise outlet pressures in a compact design
- Modular concept with 3 different configurations available
- Must be installed with flame arrestor for use with acetylene
- Acetylene version available (AD)

TECHNICAL DATA

Female connections
G 3/8 (inlet/outlet) or ¼" NPT (inlet/outlet)

Weight
Aluminium: ± 1.86 kg (± 4.10 lbs)
Stainless steel: ± 3.8 kg (± 8.37 lbs)

Max. inlet pressure
25 bar/362.5 psi

Seat gasket
EPDM

Leakage rate
10^{-8} mbar ℓ/s He

Adjustable outlet pressure
0.1 to 10 bar
14.5 to 145 psi

O-ring seal
EPDM

Operating temperature
-20 °C to +60 °C/-4 °F to +140 °F

Nominal flow
50 Nm^3/h (N_2)

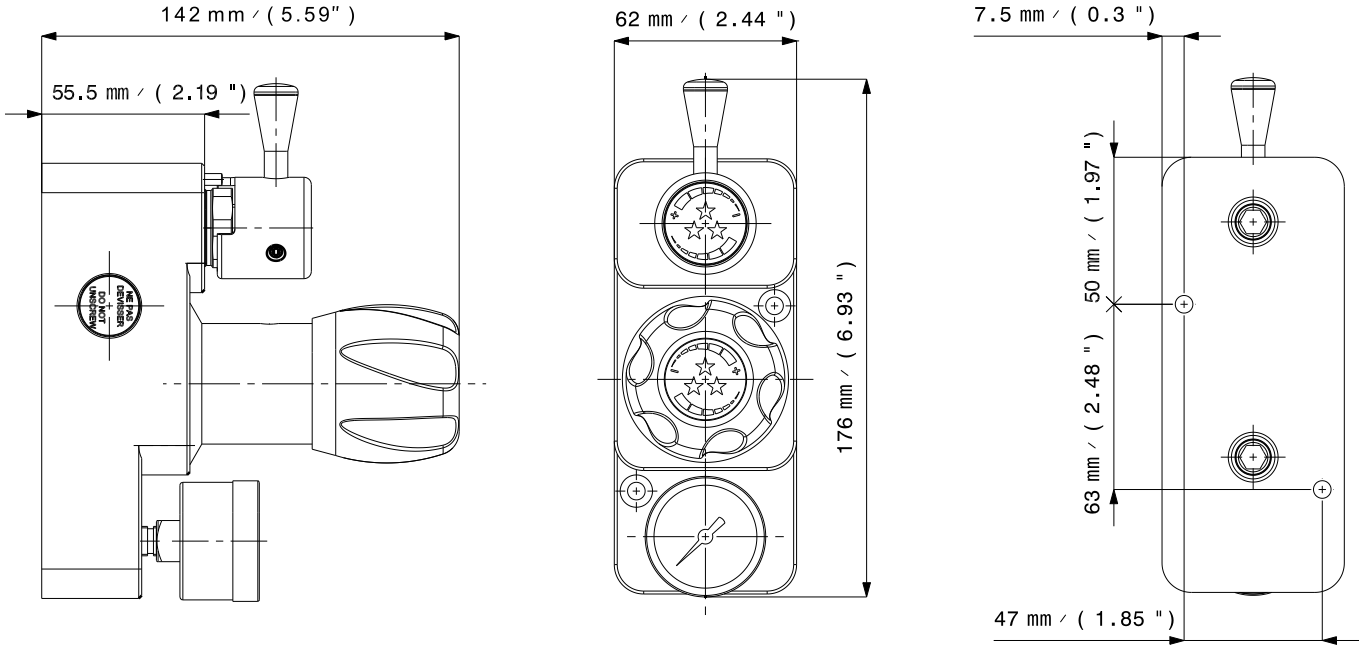
Diaphragm
AISI 304 (aluminum version)
Hastelloy® (SS version)

Pressure gauges
Low pressure (M10 x 1)

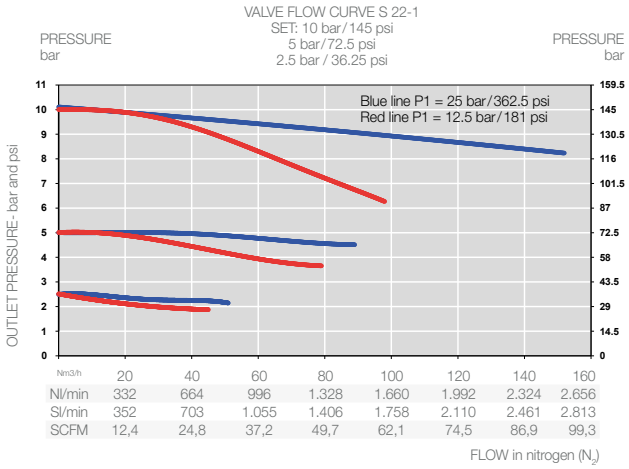
Oxygen use
Ok

Inlet position
Top

Outlet position
Bottom



FLOW CURVES



PRODUCT CONFIGURATOR

		Body material		Outlet pressure		Connection		O-ring material	Configuration	
M	S	A		15		10		G	EPDM	A
		Aluminum	A	10 bar/145 psi	10	G 3/8" - G 3/8"	G	EPDM	Configuration standard	A
		Stainless steel*	I			¼" NPT - ¼" NPT	N			

Note: G ¼ inlet with COL version

*Stainless steel version only with G3/8 connection

MS 20 SERIES
COMPACT POINT-OF-USE

APPLICATIONS

- One point of use or end of line for special gas applications in the laboratory or workshop

KEY FEATURES

- Bellows technology enables a wide range of precise outlet pressures in a compact design
- Flexible wall or panel mounting options
- Acetylene version available (AD)

Acetylene version

TECHNICAL DATA

Female connections
G 3/8 (inlet / outlet) or ¼" NPT (inlet / outlet)

Weight
Aluminium: ± 1.25 kg (± 2.75 lbs)
Stainless steel: ± 2.75 kg (± 6.06 lbs)

Max. inlet pressure
50 bar / 725 psi
AD: 20 bar (290 psi)

Seat gasket
EPDM

Leakage rate
10^{-8} mbar ℓ/s He

Adjustable outlet pressure
1 / 3 / 10 bar
14.5 / 44 / 145 psi
AD: 1.5 bar (21.75 psi)

O-ring seal
EPDM

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Nominal flow
2 / 2.5 / 3.5 $Nm^3/h(N_2)$
AD: 1 Nm^3/h

Diaphragm
Hastelloy®

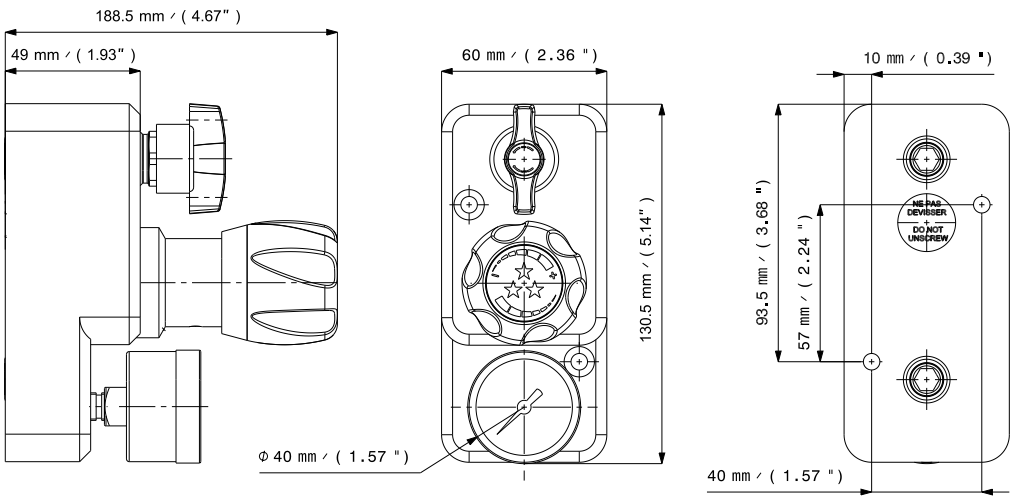
Pressure gauges
Low pressure (M10 x 1)

Oxygen use
Inlet pressure ≤ 30 bar max.
for aluminum and steel versions
stainless

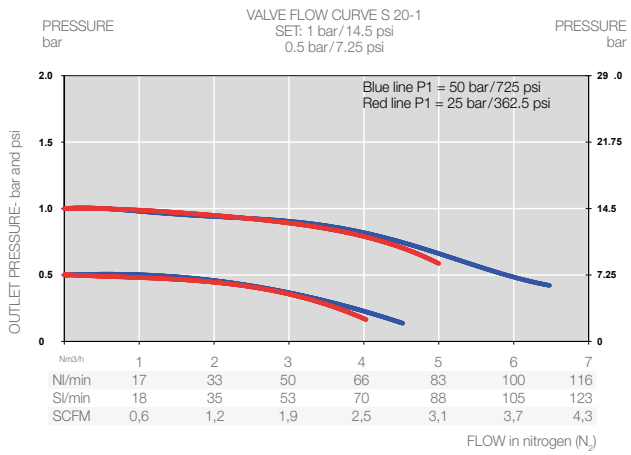
Bellows
Bronze or AISI 316L (SS version)

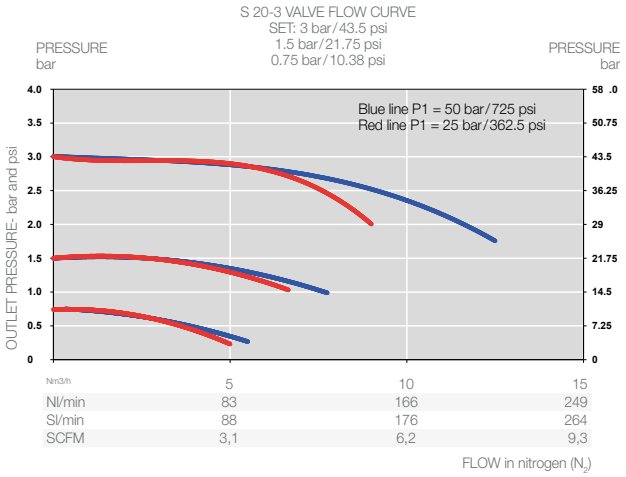
Inlet position
Rear

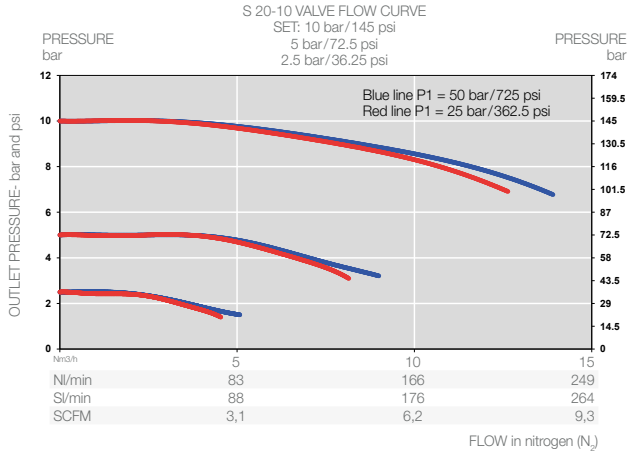
Outlet position
Bottom

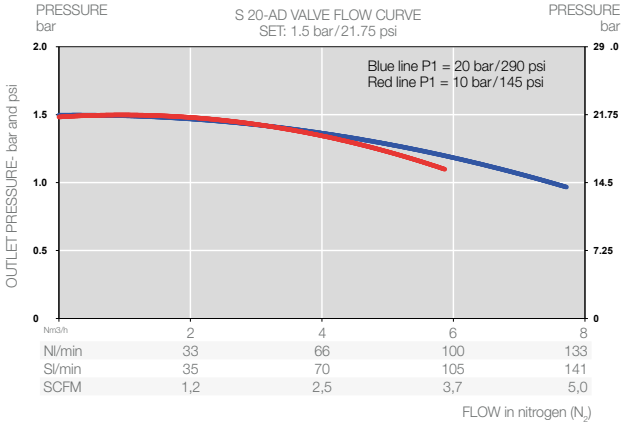


FLOW CURVES









PRODUCT CONFIGURATOR

		Body material			Outlet pressure		Connection		O-ring material	Configuration	
M	S	A		20	10		G		EPDM	A	
		Aluminum	A		1 bar/14.5 psi	1	G 3/8" - G 3/8"	G	EPDM	Configuration standard	A
		Stainless steel	I		3 bar/44 psi	3	¼" NPT - ¼" NPT	N			
					10 bar/145 psi	10					
					Acetylene version 1.5 bar (21.75 psi)	AD					

S SERIES 75
CONSTANT FLOW REGULATOR

APPLICATIONS

- Designed for calibration applications requiring preset pressure and adjustable flow, as well as for use with a portable cylinder

KEY FEATURES

- Piston technology for highly stable flow outlet
- equipped with a flow selector (10 positions) with 2 different maximum outlet rates (3 / 5 lpm)
- Compact, lightweight design, ideal for transportation
- Piston regulator 1 inlet / 1 outlet
- Integrated safety valve

TECHNICAL DATA

Female connections
Inlet: C 10 or ¼ NPT
Outlet: Barbed fitting or DR 6 or ¼" tube fitting

Weight
± 0.70 kg / ± 1.54 lbs

Max. inlet pressure
200 bar / 2,900 psi

Seat gasket
PCTFE

Leakage rate
10^{-4} mbar ℓ/s He

Adjustable outlet pressure
3.5 bar / 50 psi - standard

O-ring seal
FPM

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Nominal flow
3 - 5 lpm

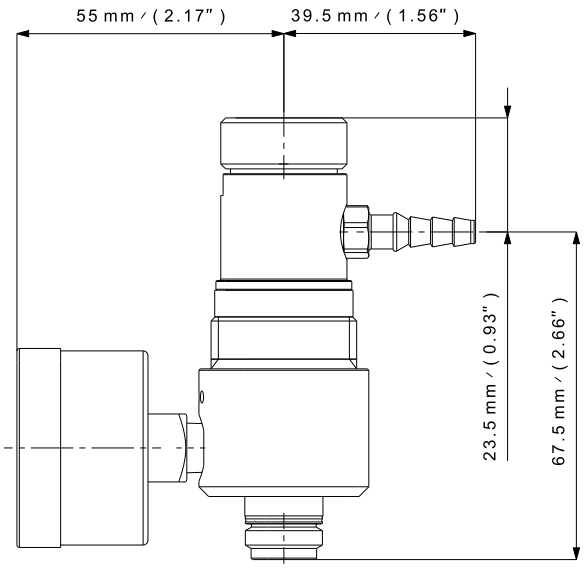
Piston
Hastelloy®

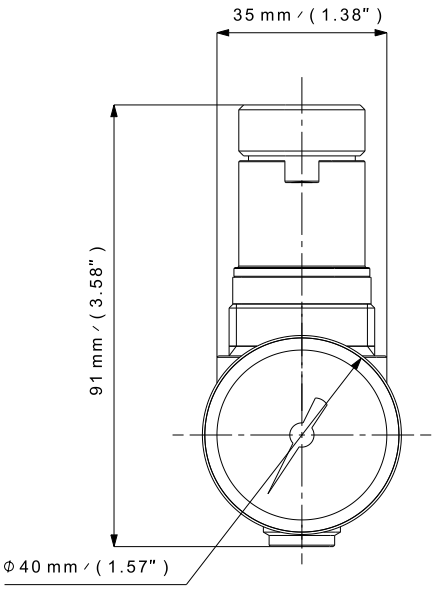
Pressure gauges
High pressure (1/8 NPT)

Oxygen use
Brass only

Inlet position
Left

Outlet position
Bottom





NOMINAL FLOW PARAMETERS (LPM)

B03	B05
0.3	0.5
0.5	0.75
0.7	1
0.9	1.5
1.2	2
1.5	2.5
2	3
2.5	4
3	5

PRODUCT CONFIGURATOR

	Body material			Outlet pressure		Inlet connection		Outlet connection		Flow selector		O-ring material	Pressure gauge	
S	L		75	3,5		N		HB		B05		FPM	2	
	Nickel-plated brass	L		3.5 bar / 50 psi	3,5	¼" NPT	N	Hose barb	HB	3 lpm	B03	FPM	With 315 bar	2
										5 lpm - standard	B05			

TGD 250 SERIES

SINGLE-STAGE HIGH FLOW REGULATOR HP

APPLICATIONS

- Ideal for gas distribution in industrial applications requiring very high flow rates, e.g. to supply welding machines.

KEY FEATURES

- Exceptionally durable

Bottle connection available as an option

TECHNICAL DATA

Female connections
Inlet: 16 x 1.336 (female)
Outlet: M20 x 1.5 (male)

Seat gasket
PCTFE

Diaphragm
Butyl

Body material
Raw brass

Inlet position
Front

Weight
± 4.6 kg / ± 10.1 lbs

Leakage rate
10^{-3} mbar ℓ/s He

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

Pressure gauges
High and low pressure (M10 x 1)

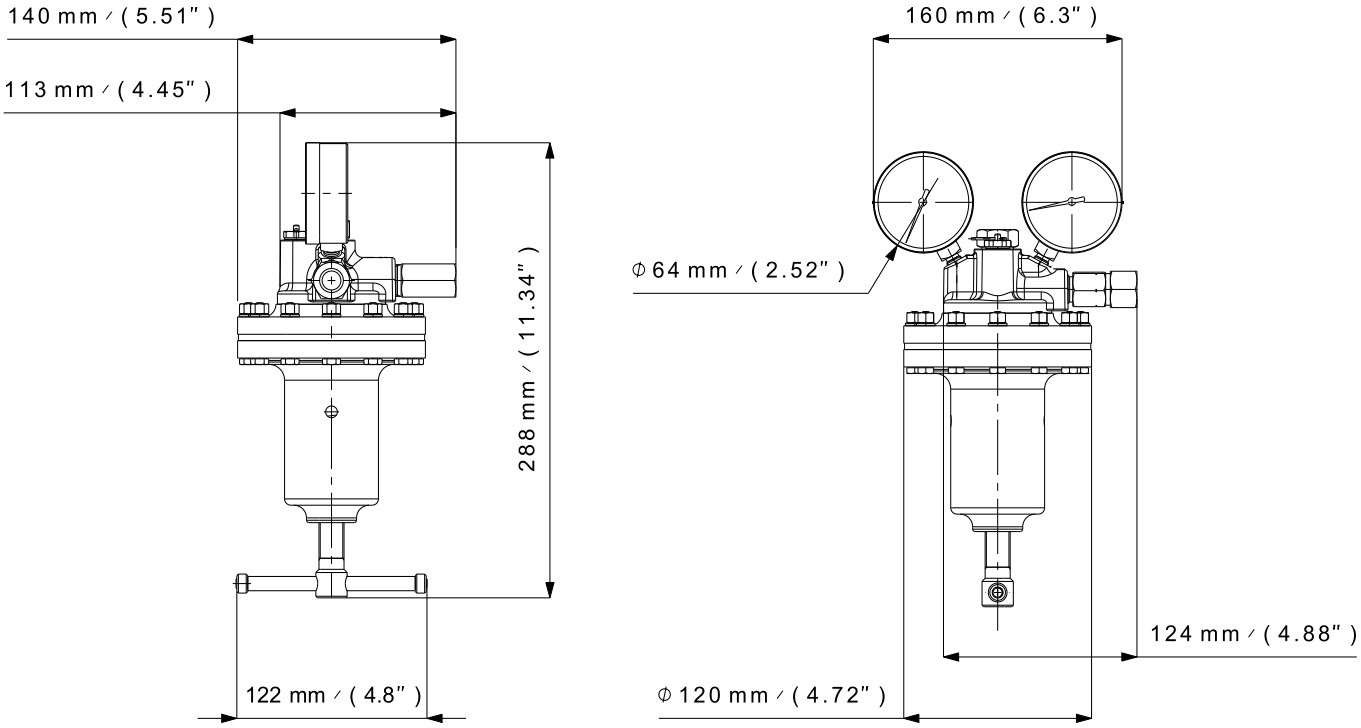
Outlet position
Right

Max. inlet pressure
200 / 230 bar
2.900 / 3.336 psi

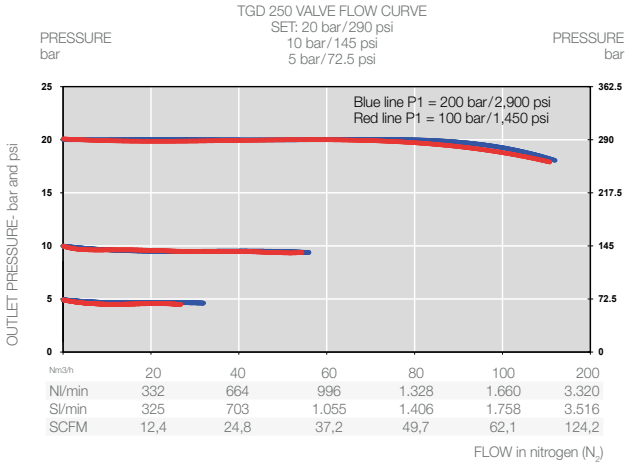
Adjustable outlet pressure
2 to 20 bar
29 to 290 psi

Nominal flow
250 $Nm^3/h(N_2)$

Oxygen use
Ok



FLOW CURVES



PRODUCT CONFIGURATOR

		Inlet connection		Pressure gauges	
TGD	250	16		1	
		16 x 1,336	16	With	A

VD SERIES
IN-LINE DIAPHRAGM VALVE

KEY FEATURES

- Hastelloy® diaphragm for sealing and gas compatibility
- Ergonomic ¼-turn steering wheel
- 3 versions: 50, 230 and 300 bar inlet working pressure
- 3 configurations: female-female, male-female, female-male
- With rear thread for panel mounting

TECHNICAL DATA

Female connections
¼" NPT: FF, MF or FM
G3/8: FF

Weight
310g

Max. inlet pressure
50/230/300 bar
725/3,335/4,350 psi

Seat gasket
PCTFE

Leakage rate
10^{-8} mbar ℓ/s He

Flow coefficient (Kv)
0.17 Kv/0.2 Cv

Diaphragm
Hastelloy®

Operating temperature
-20 °C to +60 °C

Oxygen use
Ok up to 310 bar
(brass version only)

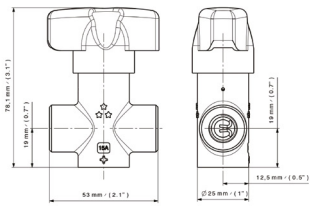
Conical inlet
OK 2x M5 to Ø18mm

Orifice size
Ø 4mm

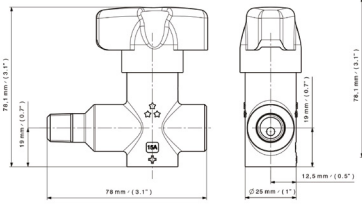
Inlet position
Left

Outlet position
Right

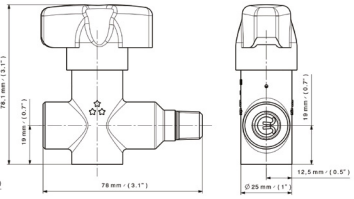
¼" NPT FF & G3/8" FF



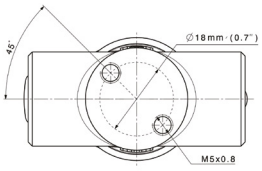
¼" NPT MF



¼" NPT FM



REAR MOUNTING



PRODUCT CONFIGURATOR

		Body material		Inlet pressure		Orientation		Connections	
V	D	B		50		FF		N	
		Chrome-plated brass	B	50 bar/725 psi	50	Female - Female	FF	¼" NPT	N
		Stainless steel	S	230 bar/3,335 psi	200	Male - Female (only with ¼NPT)	MF	G3/8	G
				300 bar/4,350 psi	300				

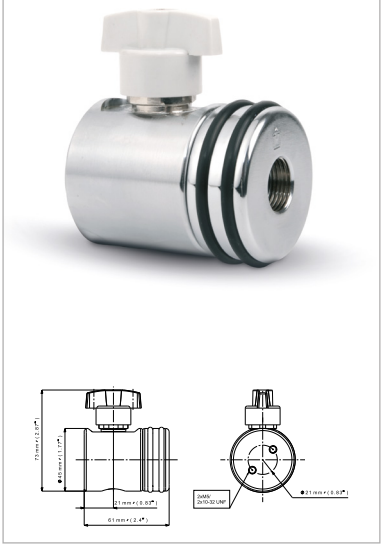
VM 20 SERIES
LINE VALVE

KEY FEATURES

- Hastelloy® diaphragm for watertightness and gas compatibility
- 3 versions available: "right", "right angle" and "wall mount".
- Compatible with $_{O2}$ applications
- Numerous inlet/outlet connections available

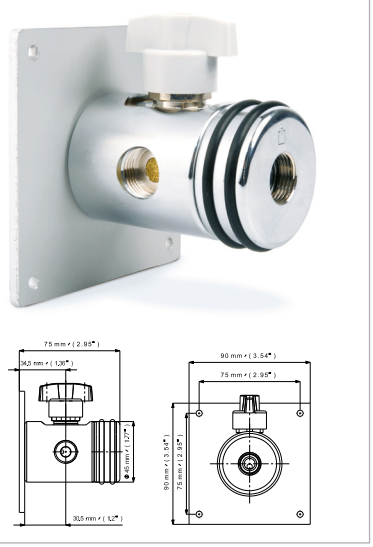
VLM 20 E ¼" TURN

Version E without cover



VLM 20 M ¼" TURN

Version M with plate



TECHNICAL DATA

Seat gasket
PCTFE/EPDM

O-ring seal
EPDM

Conical inlet
Ok

Diaphragm
Hastelloy®

Inlet position
Left

Weight
± 0.95 kg/± 2.10 lbs

Leakage rate
10^{-8} mbar ℓ/s He

Operating temperature
-20 °C to +50 °C/-4 °F to +122 °F

Orifice size
Ø 4mm

Outlet position
Right

Max. inlet pressure
50 bar/725 psi

Flow coefficient
Cv 0.14/Kv 0.12

Oxygen use
Brass: OK
Stainless steel: only E/M versions with side entry

PRODUCT CONFIGURATOR

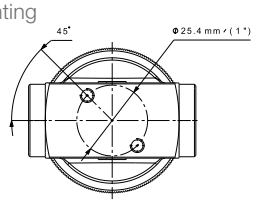
	Body material		Version		Connections		O-ring material	Steering wheel	
V	LM20		M		G		EPDM	¼T	
	Chrome-plated brass	LM 20	Without plate	E	G3/8	G	EPDM	¼" turn	¼T
	Stainless steel	IM 20	With plate	M	¼" NPT on request	N			

VM 45 SERIES
VALVE IN LINE

KEY FEATURES

- Available in multi-turn version
- Fastening ring for flush mounting in panel
- Rear thread for panel mounting

Rear mounting



TECHNICAL DATA

Female connections
G 3/8 or ¼ NPT (inlet/outlet)

Seat gasket
PCTFE

Diaphragm
Hastelloy®

Conical inlet
OK

Weight
± 0.75 kg/± 1.65 lbs

Operating temperature
-20 °C to +50 °C/-4 °F to +122 °F

Orifice size
Ø 8mm

Inlet position
Left

Max. inlet pressure
45 bar/650 psi

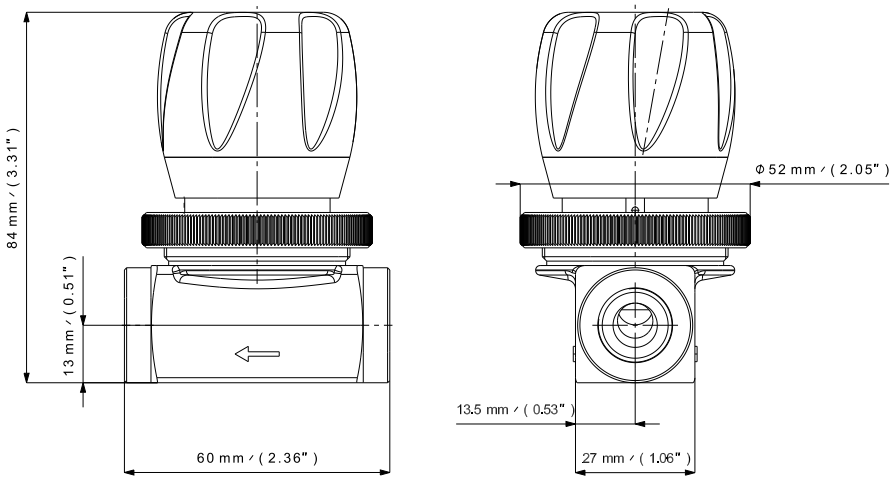
Flow coefficient (Kv)
Cv 0.58/Kv 0.50

Oxygen use
OK with brass and stainless steel

Outlet position
Right

PRODUCT CONFIGURATOR

	Body material			Connections		Steering wheel	
V	L		M	45	G		MT
	Chrome-plated brass	L		G 3/8 - female	G	Multitours	MT
				¼ NPT - female	N		



RD 10 SERIES
NEEDLE VALVE

KEY FEATURES

- Available in straight or 90° versions
- Low-torque operation
- Multi-turn adjustment knob
- High-precision flow
- Ideal for controller outlets
- Must be installed with a flame arrester when using acetylene

TECHNICAL DATA

Ports
Male inlet: G 3/8" or ¼" NPT
Female outlet: G 1/8" or ¼" NPT

Max. turns for opening max. flow
3 turns

Inlet pressure
60 bar/870 psi

Seat gasket
Metal/metal

Weight
± 0.085 kg/± 0.19 lbs

Flow coefficient
Cv 0,116. Kv 0.10 (straight)
Cv 0.174. Kv 0.15 (90°)

O-ring seal
Hastelloy®

Operating temperature
-20 °C to +50 °C/-4 °F to +122 °F

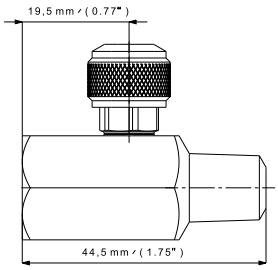
Oxygen use
OK with P1=30 bar max.

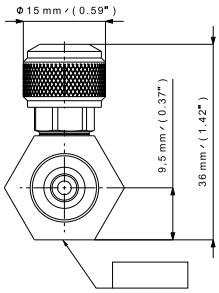
Conical inlet
No

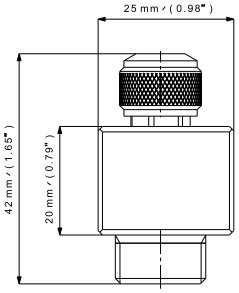
Orifice size
Ø 2.5mm

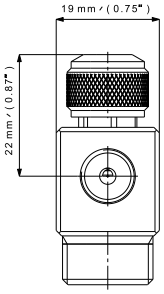
PRODUCT CONFIGURATOR

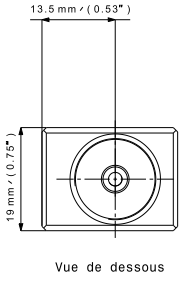
	Body material			Connections		Version		O-ring material
RD	L		10	G		D		EPDM
	Chrome-plated brass	L		Inlet: G 3/8 - male Outlet: G 1/8 - female	G	Law	D	EPDM
	Stainless steel	I		Inlet: ¼" NPT - male Outlet: ¼" NPT - female	N			





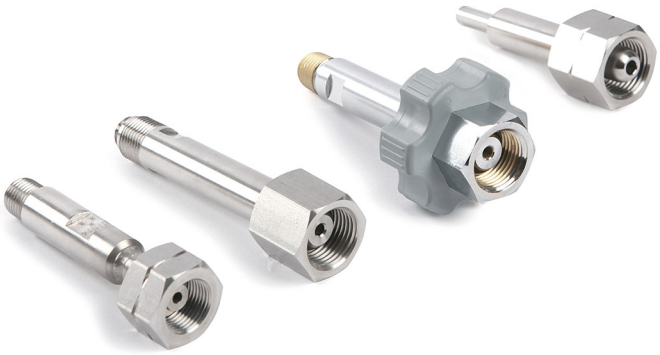






*Only available with "G" fittings.

CYLINDER CONNECTIONS



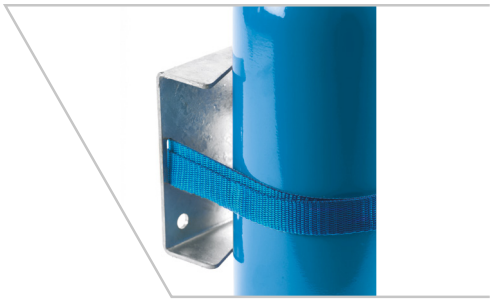
KEY FEATURES

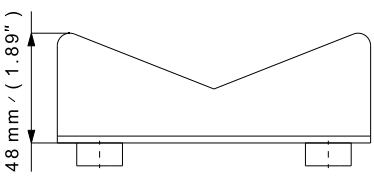
- Cylinder connection to the following standards: AFNOR, DIN, BS, CGA, NEN, UNI, FTSC 300 bar...
- Other fittings on request
- Outlet connection: 16 x 1.336 - male or ¼" NPT - male
- Material: Chrome-plated brass or stainless steel

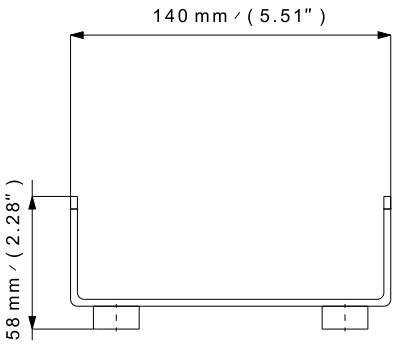
GAS CYLINDER HOLDER

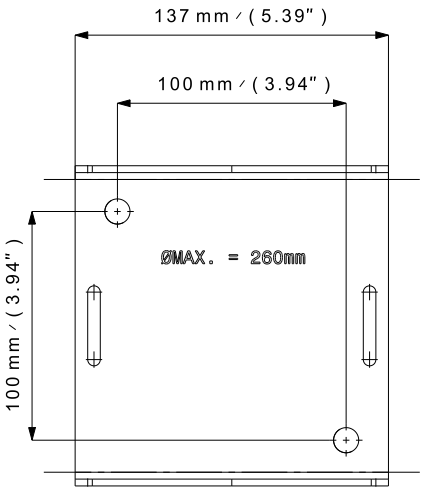
KEY FEATURES

- Mounts to the wall and holds cylinders securely in place with an adjustable fixing belt
- Several cylinder racks can be placed side by side
- A best practice in safety









		Model (fitting kit)	Material (stem)	Material (nut)	Connection	Tightening type	Gasket
AFNOR version - brass - M:16x1.336		Ent.Chr.Type B (M:16x1.336)	BC	SS 303	M:16x1.336	Manual	EPDM/EPDM
		Ent.Chr.Type C (M:16x1.336)	BC	SS 303	M:16x1.336	Manual	EPDM/EPDM
		Ent.Chr.Type D (M:16x1.336)	BC	BC	M:16x1.336	Manual	EPDM/EPDM
		Ent.Chr.Type E (M:16x1.336) EPDM	BC	SS 303	M:16x1.336	Manual	EPDM/EPDM
		Ent.Chr.Type E FPM (M:16x1.336)	BC	SS 303	M:16x1.336	Manual	FPM/FPM
		Ent.Chr.Type F (M:16x1.336)	BC	SS 303	M:16x1.336	Manual	EPDM/EPDM
		Ent.Chr.Type G (M:16x1.336)	BC	BC	M:16x1.336	Wrench	EPDM/TEFLON
AFNOR version - brass - M:¼NPT		Ent.Chr.Type B (M:¼NPT)	BC	SS 303	M:¼NPT	Wrench	Metal/Metal
		Ent.Chr.Type C (M:¼NPT) - Manual	BC	SS 303	M:¼NPT	Manual	EPDM
		Ent.Chr.Type E (M:¼NPT) - Keyed	BC	SS 303	M:¼NPT	Wrench	PTCE
		Ent.Chr.Type F (M:¼NPT)	BC	SS 303	M:¼NPT	Wrench	Metal/Metal
		Ent.Chr.Type G (M:¼NPT)	BC	SS 303	M:¼NPT	Wrench	Metal/Metal
AFNOR version - stainless steel - M:16x1.336		Ent.Inox Type C (M:16x1.336)	SS	SS 303	M:16x1.336	Wrench	PTFCE/PTFCE
		Ent.Inox Type D (M:16x1.336)	SS	SS 316L	M:16x1.336	Manual	EPDM/EPDM
		Ent.Inox Type E (M:16x1.336)	SS	SS 303	M:16x1.336	Wrench	PTFCE/PTFCE
		Ent.Inox Type F (M:16x1.336)	SS	SS 303	M:16x1.336	Manual	EPDM/PTFCE
		Ent.Inox Type G (M:16x1.336)	SS	SS 303	M:16x1.336	Wrench	EPDM/TEFLON
AFNOR version - stainless steel - M:¼NPT		Ent. Stainless steel Type C (M:¼NPT)	SS	SS 303	M:¼NPT	Wrench	PTCE
		Ent. Stainless steel Type E (M:¼NPT)	SS	SS 303	M:¼NPT	Wrench	PTCE
		Ent. Stainless steel Type F (M:¼NPT)	SS	SS 303	M:¼NPT	Wrench	Metal/Metal
DIN477-1 standard - brass - M:16x1.336		Ent.chr.din 1 (M:16x1.336)	BC	BC	M:16x1.336	Wrench	EPDM/PTFCE
		Ent.chr.din 6 (M:16x1.336)	BC	BC	M:16x1.336	Wrench	EPDM/PTFCE
		Ent.chr.din 7 (M:16x1.336)	BC	BC	M:16x1.336	Wrench	EPDM/PTFCE
		Ent.chr.din 8 (M:16x1.336) Long	BC	BC	M:16x1.336	Wrench	EPDM/PTFCE
		Ent.chr.din 9 (M:16x1.336)	BC	BC	M:16x1.336	Wrench	EPDM/PTFCE
		Ent.chr.din 10 (M:16x1.336)	BC	BC	M:16x1.336	Wrench	EPDM/PTFCE
		Ent.chr.din 11 (M:16x1.336) Long	BC	BC	M:16x1.336	Wrench	EPDM/PTFCE
		Ent.chr.din 13 (M:16x1.336) Long	BC	BC	M:16x1.336	Wrench	EPDM/PTFCE
		Ent.chr.din 14 (M:16x1.336) Long	BC	BC	M:16x1.336	Wrench	EPDM/PTFCE
DIN477-1 standard - brass - M:¼NPT		Ent.chr.din 1 (M:¼NPT) LG100	BC	BC	M:¼NPT	Wrench	PTCE
		Ent.chr.din 6 (M:¼NPT) LG100	BC	BC	M:¼NPT	Wrench	PTCE
		Ent.chr.din 9 (M:¼NPT) LG100	BC	BC	M:¼NPT	Wrench	PTCE
		Ent.chr.din 10 (M:¼NPT)	BC	BC	M:¼NPT	Wrench	PTCE
		Ent.chr.din 14 (M:¼NPT)	BC	BC	M:¼NPT	Wrench	PTCE
DIN477-1 standard - stainless steel - M:16x1.336		Ent.inox din 1 (M:16x1.336)	SS 316L	SS 303	M:16x1.336	Wrench	PTCE
		Ent.inox din 5 (M:16x1.336) Long	SS 316L	SS 316L	M:16x1.336	Wrench	PTCE
		Ent.inox din 6 (M:16x1.336)	SS 316L	SS 303	M:16x1.336	Wrench	PTCE
		Ent.inox din 7 (M:16x1.336) Long	SS 316L	SS 316L	M:16x1.336	Wrench	PTCE
		Ent.inox din 8 (M:16x1.336) Long	SS 316L	SS 316L	M:16x1.336	Wrench	PTCE
		Ent.inox din 9 (M:16x1.336)	SS 316L	SS 303	M:16x1.336	Wrench	PTCE
		Ent.inox din 10 (M:16x1.336)	SS 316L	SS 303	M:16x1.336	Wrench	PTCE
		Ent.inox din 13 (M:16x1.336) Long	SS 316L	SS 316L	M:16x1.336	Wrench	PTCE
		Ent.inox din 14 (M:16x1.336)	SS 316L	SS 316L	M:16x1.336	Wrench	PTCE
DIN477-1 standard - stainless steel - M:¼NPT		Ent.inox din 1 (M:¼NPT)	SS 316L	SS 303	M:¼NPT	Wrench	PTCE
		Ent.inox din 6 (M:¼NPT)	SS 316L	SS 303	M:¼NPT	Wrench	PTCE
		Ent.inox din 8 (M:¼NPT) Long	SS 316L	SS 316L	M:¼NPT	Wrench	PTCE
		Ent.inox din 9 (M:¼NPT)	SS 316L	SS 303	M:¼NPT	Wrench	PTCE
		Ent.inox din 10 (M:¼NPT) LG100	SS 316L	SS 303	M:¼NPT	Wrench	PTCE
		Ent.inox din 13 (M:¼NPT)	SS 316L	SS 316L	M:¼NPT	Wrench	PTCE
		Ent.inox din 14 (M:¼NPT)	SS 316L	SS 316L	M:¼NPT	Wrench	PTCE
Version BS - brass - M:16x1.336		BS 341/3 brass	BC	Brass	M:16x1.336	Wrench	EPDM
		BS 341/3 brass	BC	Brass	M:16x1.336	Wrench	EPDM
BS-brass version - M:¼NPT		BS 341/3 brass LG100	BC	Brass	M:¼NPT	Wrench	Metal/Metal
		BS 341/3 brass LG75	BC	Brass	M:¼NPT	Wrench	Metal/Metal
		BS 341/4 brass LG75	BC	Brass	M:¼NPT	Wrench	Metal/Metal
BS standard - stainless steel - M:16x1.336		341/3 stainless steel	SS	SS 316L	M:16x1.336	Wrench	EPDM
		341/4 stainless steel	SS	SS 316L	M:16x1.336	Wrench	EPDM
BS standard - stainless steel - M:¼NPT		341/4 stainless steel LG75	SS	SS 316L	M:¼NPT	Wrench	Metal/Metal

GAS COMPATIBILITY

CODE FOR GAS COMPATIBILITY

Identify the gas type in the table below, then check the gas compatibility of the various standard materials. Select only materials compatible with the gas type.

GAS COMPATIBILITY WITH MATERIALS

(AT ROOM TEMPERATURE 20°C)

Gas		B or SS 316L	PA 6.6	PTFE	PCTFE	NBR	FPM (VITON®)	EPDM
Acetylene	C_2H_2	B		OK				OK
Argon	Ar	B	OK	OK	OK	OK	OK	OK
Butane	C_4H_{10}	B	OK		OK			
Carbon dioxide	CO_2	SS	OK	OK	OK	OK	OK	OK
Carbon monoxide	CO	B	OK	OK	OK	OK	OK	OK
Ethane	C_2H_6	B	OK	OK	OK	OK	OK	OK
Helium	He	B	OK	OK	OK	OK	OK	OK
Hydrogen	H_2	B	OK	OK	OK	OK	OK	OK
Krypton	Kr	B	OK	OK	OK	OK	OK	OK
Methane	CH_4	B	OK	OK	OK	OK	OK	OK
Nitric Oxide	No	SS 316L	Please consult - depends on proportion of NO in the mixture					
Nitrogen	N_2	B	OK	OK	OK	OK	OK	OK
Nitrous Oxide	N_2O	SS 316L	Please consult - depends on proportion of N_2O in the mixture					
Oxygen	O_2	B						
Propane	C_3H_8	B	OK	OK	OK	OK	OK	OK
Silane	SiH_4	SS 316L						
Ammonia	NH_3	SS 316L	OK	OK	OK	OK	OK	OK
Ethylene	C_2H_4	B	OK	OK	OK	OK	OK	OK
Hydrogen Sulfide	H_2S	SS 316L	OK	OK	OK	OK	OK	OK
Sulphur Dioxide	SO_2	SS 316L						
Sulphur Hexafluoride	SF_6	B	OK	OK	OK	OK	OK	OK

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Hastelloy® is a registered trademark of HAYNES INTERNATIONAL Inc.

CONVERSION TABLES

FLOW CONVERSION

	m³/h	l/h	foot³/min	l/s	cm³/s
m³/h	1	$1x10^{3}$	0,589	0,2778	277,78
l/h	$1x10^{-3}$	1	$5,885x10^{-4}$	$2,778x10^{-4}$	0,2778
foot³/min	1,69	$1,699x10^{3}$	1	0,4719	471,95
l/s	3,6	$3,6x10^{3}$	2,119	1	10^{3}
cm³/s	$3,6x10^{-3}$	3,6	$2,119x10^{-3}$	10^{-3}	1

PRESSURE CONVERSION

	bar	mbar	kPa	MPa	atm	psi
bar	1	10^{3}	100	0.1	0.987	14.5
mbar	10^{-3}	1	0.1	10^{-4}	$9.869x10^{-4}$	$14.5x10^{-3}$
kPa	10^{-2}	10	1	10^{-3}	$9.869x10^{-3}$	0.145
MPa	10	10^{4}	10^{3}	1	9.869	145
atm	1.013	1013	101.3	$1.013x10^{-1}$	1	14.69
psi	$6.89x10^{-3}$	68.9	6.89	$6.89x10^{-2}$	$6.8x10^{-2}$	1

LEAK RATE

	Atm.cc /sec	mbar.l /sec	Atm.mm³ /sec	Atm.cc /min	Atm.L /min	Atm.m³ /min	Atm.cu.ft /yr	torr.l /sec
Atm.cc /sec	1	1.013	1.000	60	0.06	6.00E-05	1.116	0.759
mbar.l /sec	0.987	1	987	59.23	0.059	5.90E-05	1.101	0.75
Atm.mm³ /sec	0.001	0.001	1	0.06	6.00E-05	6.00E-08	1.116	0.0007
Atm.cc /min	0.0167	0.017	16.67	1	0.001	1.00E-06	18.6	0.012
Atm.L /min	16.67	16.88	16.667	1,000	1	0.001	18.601	12.67
Atm.m³ /min	16,667	16,883	16,666,667	1,000,000	1,000	1	18,601,190	12,664
Atm.cu.ft /yr	0.0009	0.0009	0.896	0.054	5.37E-08	5.37E-08	1	0.0007
torr.l /sec	1.316	1.33	1.316	78.96	0.0789	7.89E-05	1.468	1

TEMPERATURE

C°	F°	K°	R°
-20	-4	253	456
-10	14	263	474
0	32	273	492
10	50	283	510
20	68	293	528
30	86	303	546
40	104	313	564
50	122	323	582
60	140	333	600
70	158	343	618
80	176	353	636
90	194	363	654
100	212	373	672
200	392	473	852
300	572	573	1.032
400	752	673	1.212
500	932	773	1.392
600	1.112	873	1.572
700	1.292	973	1.752
800	1.472	1.073	1.932
900	1.652	1.173	2.112
1.000	1.832	1.273	2.292

DIMENSIONS

metric	inches
3	0.118
6	0.236
8	0.315
10	0.394
12	0.472
14	0.551
16	0.630
18	0.709
20	0.787
22	0.866
25	0.984

fraction inch	decimal inch	metric (mm)
1/16"	0.063	1.59
1/8"	0.125	3.18
3/16"	0.188	4.76
1/4"	0.250	6.35
5/16"	0.313	7.94
3/8"	0.375	9.53
1/2"	0.500	12.70
7/16"	0.438	11.11
5/8"	0.625	15.88
3/4"	0.750	19.05
7/8"	0.875	22.23
1"	1.000	25.40

SC SERIES 290 F

SINGLE-STAGE HP CARTRIDGE REGULATOR

APPLICATIONS

- Food industry version, perfect material compatibility
- Ideal for applications requiring high-pressure regulators

KEY FEATURES

- This single-stage regulator is based on cartridge seat technology
- Precise pressure control for reliable service
- Can be fitted with a shut-off valve
- Valve seat gasket material discharge: Brass version (EPDM), stainless steel (FPM)
- Complies with EC regulation 1935/2004

TECHNICAL DATA

Female connections
¼" NPT (inlet / outlet)

Seat gasket
PCTFE

O-ring seal
PTFE

Diaphragm
Hastelloy®

Weight
± 1.4 kg
± 3.0 lbs

Leakage rate
10^{-8} mbar ℓ/s He

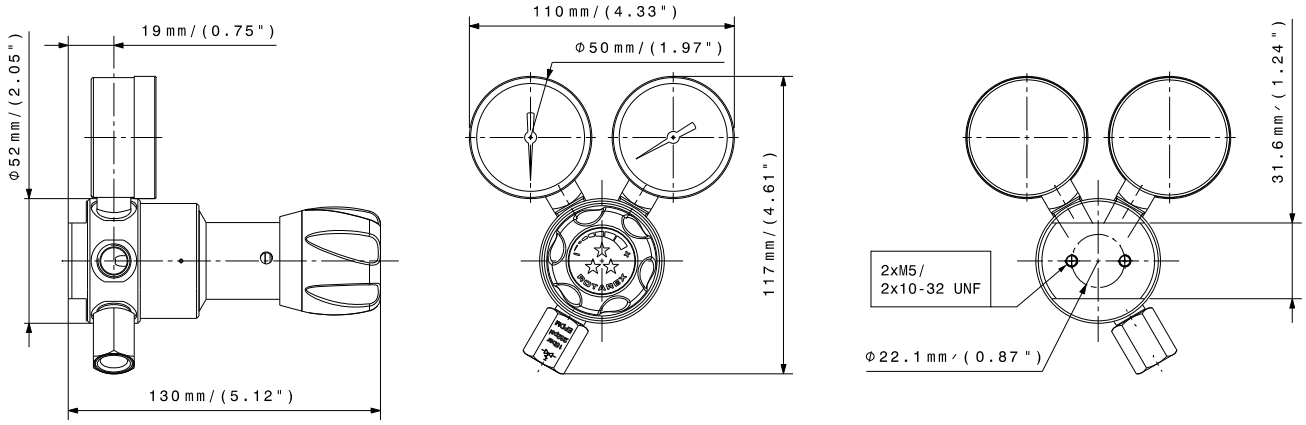
Operating temperature
-40 °C to +60 °C
-40 °F to +140 °F

Pressure gauges
High and low pressure(¼" NPT)

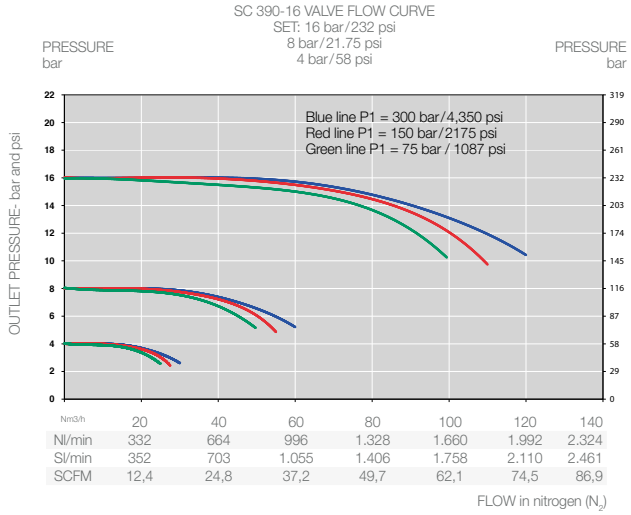
Inlet pressure
200 bar
2,900 psi

Adjustable outlet pressure
16 / 35 bar
232 / 508 psi

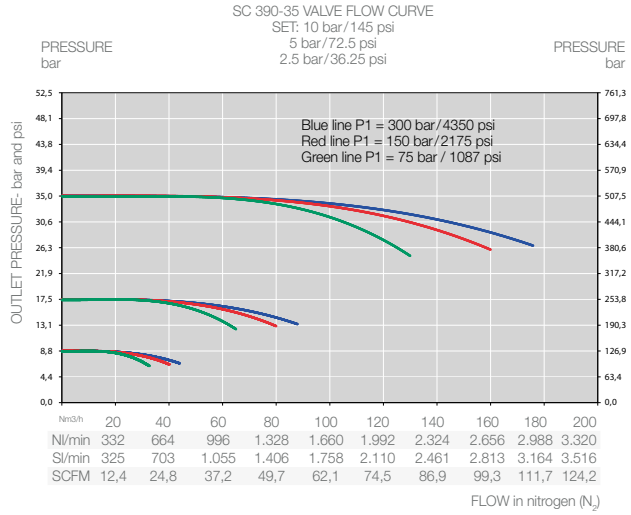
Nominal flow
50 / 75 $Nm^3/h(N_2)$
Cv: 0.2



FLOW CURVES



Nm3/h	20	40	60	80	100	120	140
Nl/min	332	664	996	1.328	1.660	1.992	2.324
Sl/min	352	703	1.055	1.406	1.758	2.110	2.461
SCFM	12,4	24,8	37,2	49,7	62,1	74,5	86,9



Nm3/h	20	40	60	80	100	120	140	160	180	200
Nl/min	332	664	996	1.328	1.660	1.992	2.324	2.656	2.988	3.320
Sl/min	325	703	1.055	1.406	1.758	2.110	2.461	2.813	3.164	3.516
SCFM	12,4	24,8	37,2	49,7	62,1	74,5	86,9	99,3	111,7	124,2

PRODUCT CONFIGURATOR

	Body material		Inlet pressure		Port configuration		Outlet pressure		Inlet connection		Outlet connection		Pressure gauges	
SC	L		290	F	L		16		N		N		1	
	Chrome-plated brass	L	200 bar 2,900 psi	290	Left inlet	L	16 bar 232 psi	16	¼" NPT	N	¼" NPT	N	With	1
							35 bar 508 psi	35						

S 800 F SERIES
SINGLE-STAGE PRESSURE HP REGULATOR

APPLICATIONS

- Food industry version, perfect material compatibility
- Designed for use as a high-pressure regulator
- Ideal for high-pressure applications requiring precise outlet pressure at high flow rates

KEY FEATURES

- Best-in-class pressure control thanks to Balanced-Valve technology
- Extremely stable outlet pressure and flow rate, even at high flow rates
- Rear thread for front panel mounting
- Compatible with O^2 application
- Complies with EC regulation 1935/2004

TECHNICAL DATA

Female connections
¼" NPT (inlet/outlet)

Seat gasket
PCTFE

O-ring seal
EPDM

Diaphragm
AISI 304
Hastelloy® (25/50 bar)

Inlet position
Left*

Weight
± 2.4 kg/± 5.3 lbs

Leakage rate
10^{-8} mbar ℓ/s He

Operating temperature
-40 °C to +60 °C/-40 °F to +140 °F

Pressure gauges
High and low pressure (M10 x 1 or ¼" NPT)

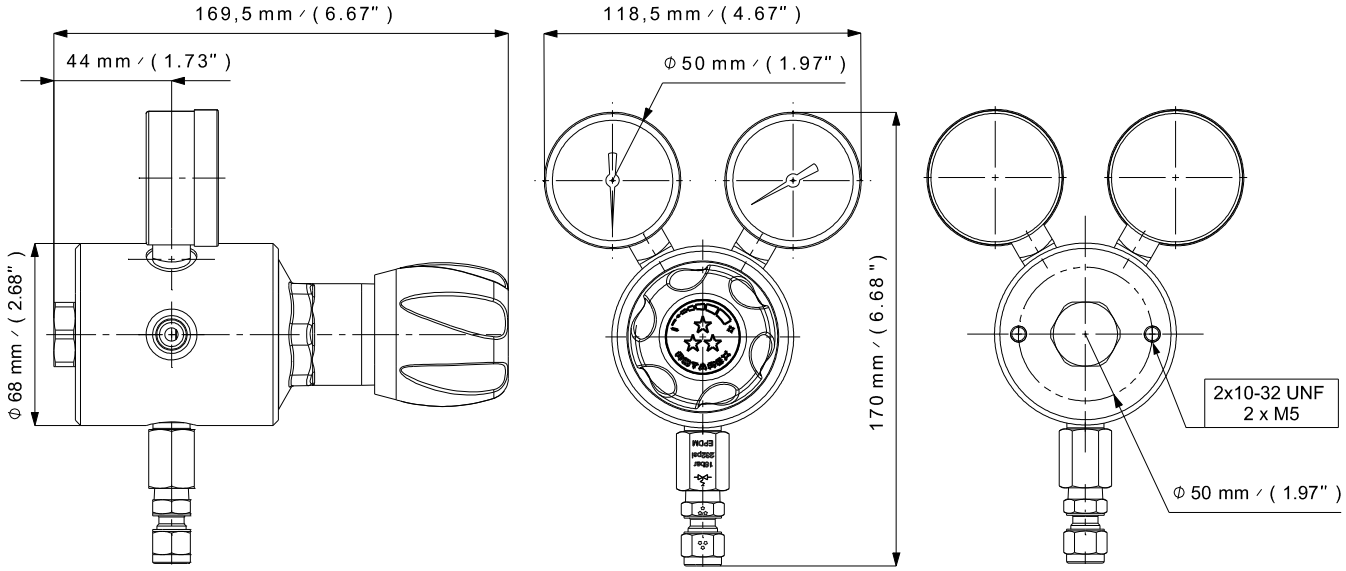
Outlet position
Right*

Inlet pressure
200 bar/2,900 psi

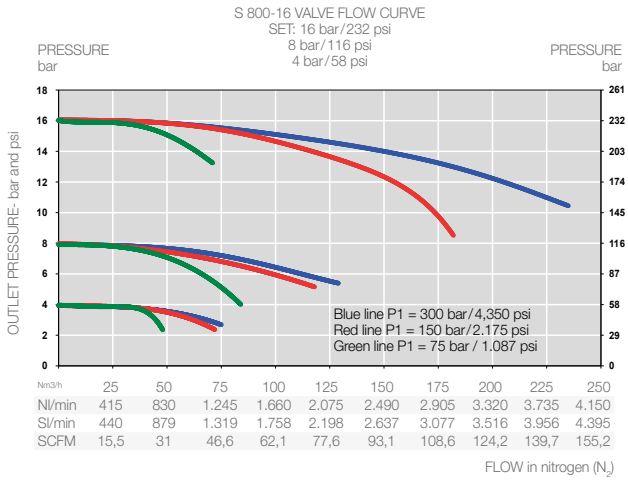
Adjustable outlet pressure
16/50 bar
232/725 psi

Nominal flow
50/100 $Nm^3/h(N_2)$

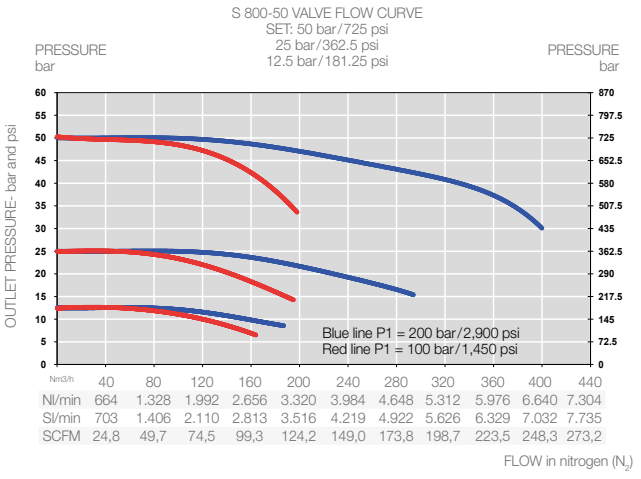
Oxygen use
Brass version: OK



FLOW CURVES



Nm3/h	25	50	75	100	125	150	175	200	225	250
Nl/min	415	830	1.245	1.660	2.075	2.490	2.905	3.320	3.735	4.150
Sl/min	440	879	1.319	1.758	2.198	2.637	3.077	3.516	3.956	4.395
SCFM	15,5	31	46,6	62,1	77,6	93,1	108,6	124,2	139,7	155,2



Nm3/h	40	80	120	160	200	240	280	320	360	400	440
Nl/min	664	1.328	1.992	2.656	3.320	3.984	4.648	5.312	5.976	6.640	7.304
Sl/min	703	1.406	2.110	2.813	3.516	4.219	4.922	5.626	6.329	7.032	7.735
SCFM	24,8	49,7	74,5	99,3	124,2	149,0	173,8	198,7	223,5	248,3	273,2

PRODUCT CONFIGURATOR

	Body material		Inlet pressure		Outlet pressure		Connections		O-ring material	Pressure gauges	
S	L		800	F	16		N		EPDM	1	
	Chrome-plated brass	L			16 bar 232 psi	16	¼" NPT - ¼" NPT	N	EPDM	With	1
					50 bar 725 psi	50					

DC 50 F SERIES
HIGH-FLOW LINE REGULATOR

APPLICATIONS

- Food industry version, perfect material compatibility
- For all low-pressure applications requiring high flow rates
- Perfectly suited for use as a line regulator in conjunction with a MOD expansion module or a CEN central inversion unit

KEY FEATURES

- Ideally suited as a line controller in combination with a feeder or switchgear panel
- Better outlet pressure stability thanks to balanced valve technology
- Reduced seat stress increases controller life and reduces cost of ownership
- Complies with EC regulation 1935/2004
- High flow rate improves operator safety during cylinder replacement
- The switchgear can be fitted with an alarm box to indicate source status by means of contact gauges

TECHNICAL DATA

Female connections
½" NPT (inlet / outlet)

Seat gasket
EPDM

O-ring seal
EPDM

Diaphragm (expansion valve)
EPDM

Weight
± 1.4 kg / ± 3.1 lbs

Leakage rate
1.10^{-3} mbar ℓ/s He

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

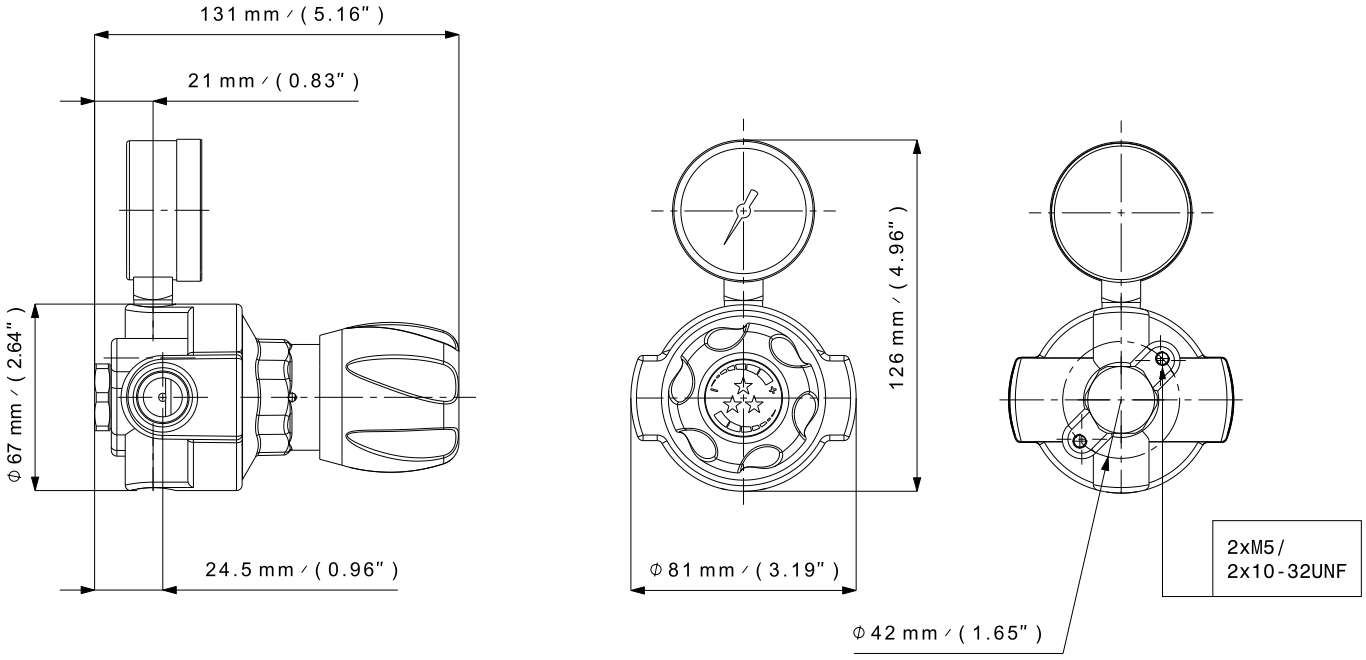
Pressure gauges
Low pressure (G¼" or ¼" NPT)

Inlet pressure
20 bar / 290 psi

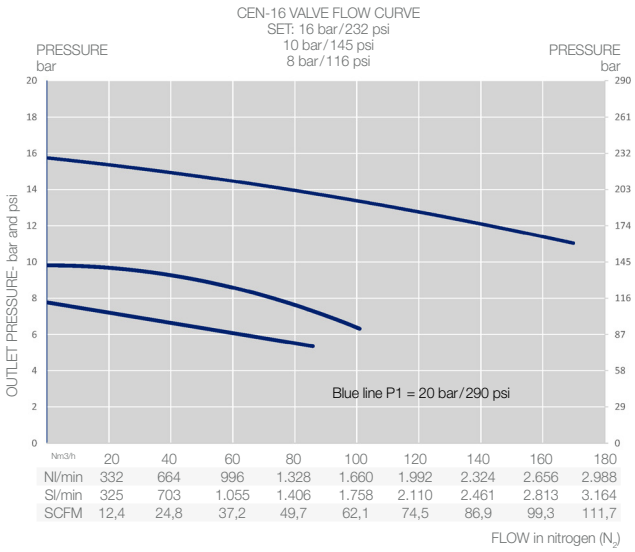
Adjustable outlet pressure
8 / 15 bar
116 / 217 psi

Nominal flow 200 bar version
75 $Nm^3/h(N_2)$ (8 bar)
120 $Nm^3/h(N_2)$ (15 bar)

Oxygen use
OK



FLOW CURVES



PRODUCT CONFIGURATOR

			Inlet pressure		Connections		O-ring material		Body material		Pressure gauges	
DC	50	F	8		G		EPDM		L		1	
			8 bar 116 psig	8	½" NPT - ½" NPT	N	EPDM		Chrome-plated brass	L	With	1
			15 bar 217 psi	15								

S SERIES 15 F
LINE REGULATOR

APPLICATIONS

- Food industry version, perfect material compatibility
- For all low-pressure applications requiring high flow rates
- Perfectly suited for use as a line regulator in conjunction with a MOD expansion module or a CEN central inversion unit

KEY FEATURES

- Ideally suited as a line controller in combination with a feeder or switchgear panel
- Better outlet pressure stability thanks to balanced valve technology
- Reduced seat stress increases controller life and reduces cost of ownership
- Complies with EC regulation 1935/2004
- High flow rate improves operator safety during cylinder replacement
- The switchgear can be fitted with an alarm box to indicate source status by means of contact gauges

TECHNICAL DATA

Female connections
¼" NPT (inlet / outlet)

Seat gasket
EPDM

O-ring seal
EPDM

Diaphragm
AISI 304 (brass version)
Hastelloy® (SS version)

Weight
± 1.2 kg / ± 2.64 lbs

Leakage rate
1.10^{-8} mbar ℓ/s He

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

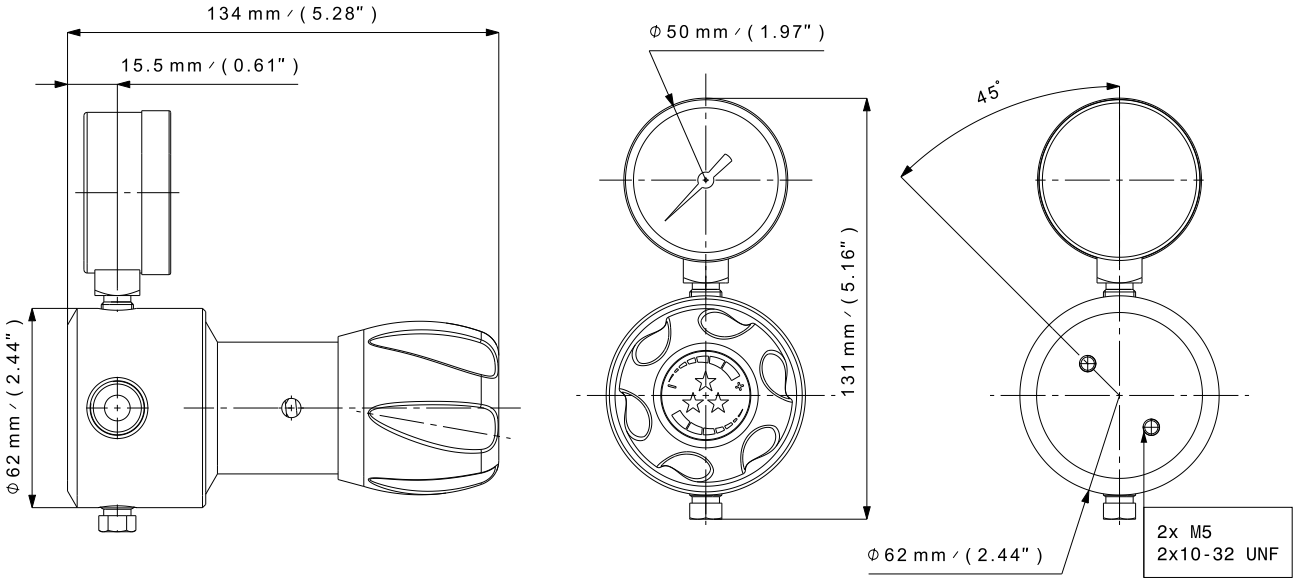
Pressure gauges
Low pressure (M10 x 1 or ¼" NPT)

Inlet pressure
25 bar / 360 psi

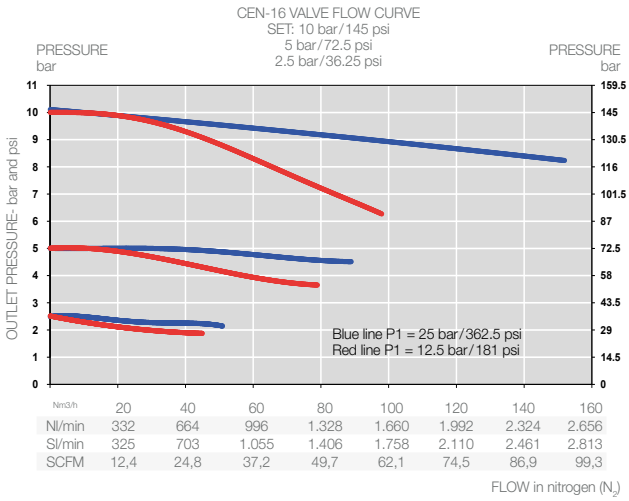
Adjustable outlet pressure
10 bar / 145 psi

Nominal flow
50 $Nm^3/h(N_2)$

Oxygen use
OK for brass



FLOW CURVES



PRODUCT CONFIGURATOR

	Body material			Outlet pressure		Connections		O-ring material		Pressure gauges		Port configuration	
S	L	15	F	10		N		EPDM		1		A	
	Chrome-plated brass	L		10 bar 145 psig	8	¼" NPT	N	EPDM		With	1	Configuration standard	A

MS 15 F SERIES
LINE REGULATOR

APPLICATIONS

- Food industry version, perfect material compatibility
- A point of use or end of line

KEY FEATURES

- Excellent pressure consistency thanks to Balanced Valve technology
- Can be used for wall or panel mounting thanks to its compact design, rear thread and mounting ring
- Complies with EC regulation 1935/2004
- High flow rate

TECHNICAL DATA

Female connections
¼" NPT (inlet / outlet)

Seat gasket
EPDM

O-ring seal
EPDM - standard

Diaphragm
AISI 304 (aluminum version)

Weight
Aluminium: ± 1.86 kg / ± 4.10 lbs

Leakage rate
1.10^{-8} mbar ℓ/s He

Operating temperature
-20 °C to +60 °C / -4 °F to +140 °F

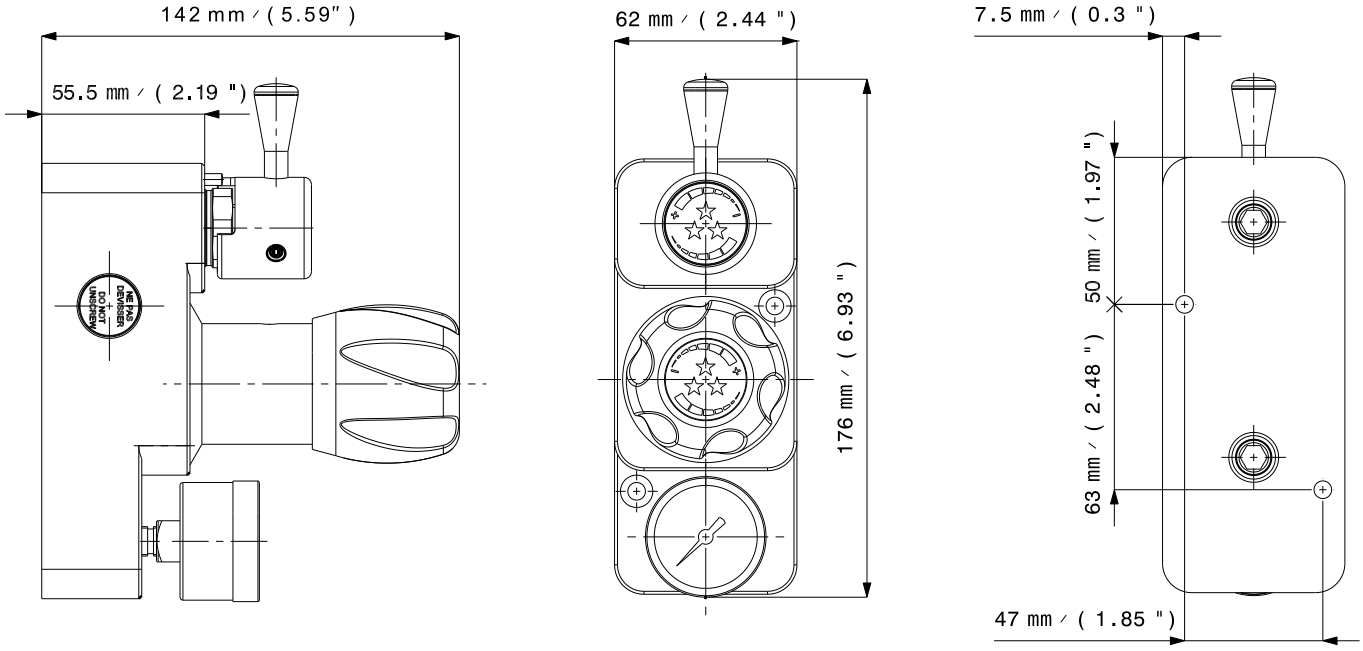
Pressure gauges
Low pressure (M10 x 1)

Inlet pressure
25 bar / 362.5 psi

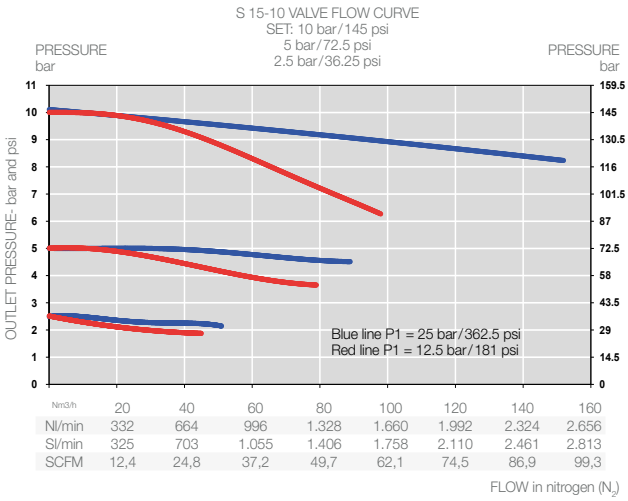
Adjustable outlet pressure
10 bar / 145 psi

Nominal flow
50 $Nm^3/h(N_2)$

Oxygen use
OK



FLOW CURVES



Nm3/h	20	40	60	80	100	120	140	160
Nl/min	332	664	996	1.328	1.660	1.992	2.324	2.656
Sl/min	325	703	1.055	1.406	1.758	2.110	2.461	2.813
SCFM	12,4	24,8	37,2	49,7	62,1	74,5	86,9	99,3

PRODUCT CONFIGURATOR

	Body material			Outlet pressure	Connections	O-ring material	Port configuration
MS	A	15	F	10	N	EPDM	A
	Aluminum	A		10 bar 145 psig	10 ¼" NPT - ¼" NPT	N EPDM - standard	Standard configuration A

VD SERIES
IN-LINE DIAPHRAGM VALVE

KEY FEATURES

- Version dedicated to the food industry, perfect material compatibility.
- For gas purities up to 6.0
- Hastelloy® diaphragm for tightness and gas compatibility
- Ergonomic ¼-turn steering wheel
- Chrome-plated brass
- 2 versions: Inlet operating pressure 50 and 230 bar
- 3 configurations: female-female, male-female, female-male
- Available with 1/4NPT or G3/8 connections
- With rear threads for panel mounting

TECHNICAL DATA

Female connections
¼" NPT: FF, MF or FM
G3/8: FF

Weight
310g

Max. inlet pressure
50/230 bar
725/3.335 psi

Seat gasket
PCTFE

Leakage rate
10^{-8} mbar ℓ/s He

Flow coefficient (Kv)
0.17 Kv/0.2 Cv

Diaphragm
Hastelloy®

Operating temperature
-20 °C to +60 °C

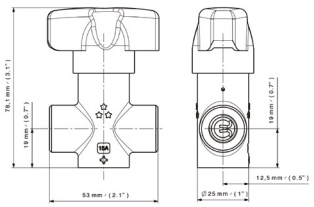
Conical inlet
OK 2x M5 to Ø18mm

Orifice size
Ø 4mm

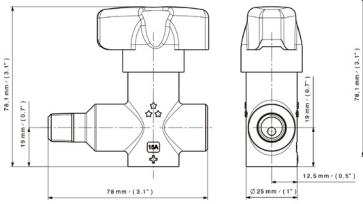
Inlet position
Left

Outlet position
Right

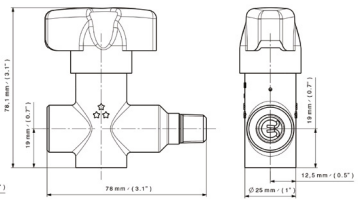
¼" NPT FF & G3/8" FF



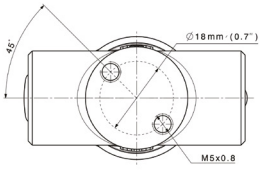
¼" NPT MF



¼" NPT FM



REAR MOUNTING



PRODUCT CONFIGURATOR

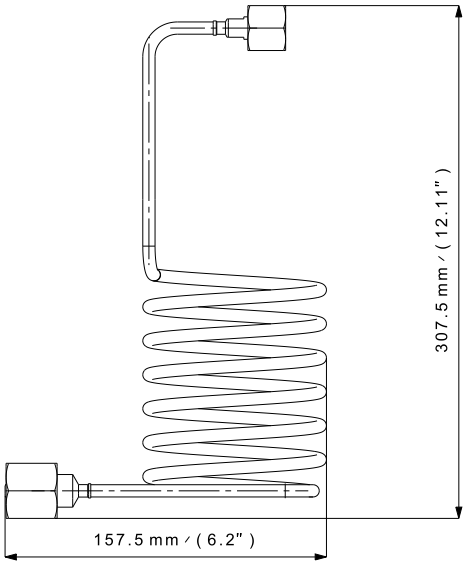
		Body material		Inlet pressure		Orientation		Connections		Steering wheel	
V	D	B		50	F	FF		N		1/4T	
		Chrome-plated brass	B	50 bar/725 psi	50	Female - Female	FF	¼" NPT	N	¼" turn	1/4 T
				230 bar/3.335 psi	230	Male - Female (only with ¼NPT)	N	G3/8	G		
						Female - Male (only with ¼NPT)	N				

I LYRES F

KEY FEATURES

- Cylinder connections to the following standards;
  - AFNOR
- Other connections: on request
- Outlet connections: G 3/8 - female
- Material: stainless steel

RIGHT VERSION



LT	Part Number	Type	Material	Connection	Nominal Pressure (bar)
C	202597990092	Straight	SS	G3/8	300

FX 06 F
FLEXIBLE PIPES

KEY FEATURES

- Stainless steel hose (FX 06)
- Compatible with neutral and corrosive gases, depending on hose type
- The hose consists of a double braid, an inner core and stainless steel end fittings
- The standard hose is fitted with a stainless steel safety cable

TECHNICAL DATA

Female connections
¼" NPT: FF, MF or FM
G3/8: FF

Weight
310g

Max. inlet pressure
50/230 bar
725/3.335 psi

Seat gasket
PCTFE

Leakage rate
10^{-8} mbar ℓ/s He

Flow coefficient (Kv)
0.17 Kv/0.2 Cv

Diaphragm
Hastelloy®

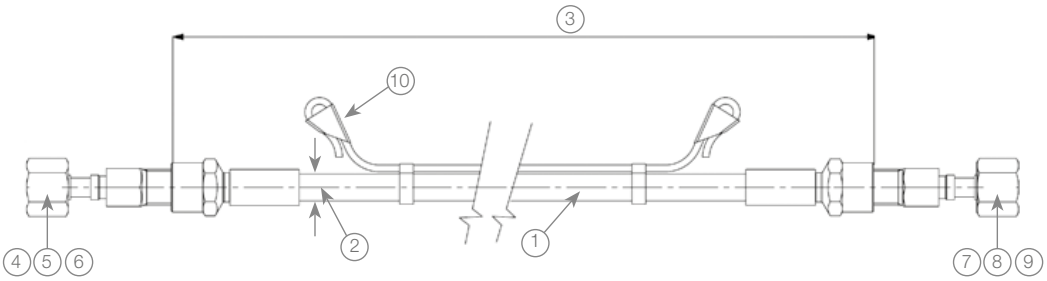
Operating temperature
-20 °C to +60 °C

Conical inlet
OK 2x M5 to Ø18mm

Orifice size
Ø 4mm

Inlet position
Left

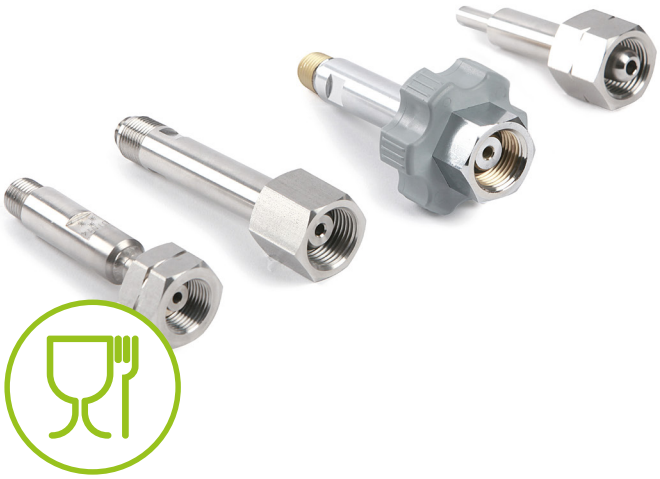
Outlet position
Right



PRODUCT CONFIGURATOR

Type		Internal diameter		Length		Connection type		Connection size		Thread		Options	
FX06	F	DN¼		1500		NF		C		G6		B	
Stainless steel 316L/304	FX 06	¼"	DN ¼	1.500 mm	15 00	AFNOR		Type C	C	G 3/8 - Female with rotating nut	G6	Elbow on side of bottle	B
								Type E	E				
								Type F	F				

CYLINDER CONNECTIONS



KEY FEATURES

- Cylinder connection to the following standards; AFNOR, DIN, BS, UNI...
- Other fittings on request
- Outlet connection: 16 x 1.336 - male or ¼" NPT - male
- Material: Chrome-plated brass or stainless steel

Over 100 years of innovation and technical excellence

Founded in Luxembourg **more than 100 years ago**, the company has grown to be a **world-leading** producer of cylinder valves, pressure regulators, equipment and systems, that deliver superior gas safety, control and productivity. Thanks to **top-tier European engineering** and **technical excellence** developed over decades, we are a valued partner of many of the world's most demanding gas companies and gas system designers and installers.

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Clean energies are the future of transportation. Rotarex offer a wide range of valves and regulators for hydrogen, LPG and CNG vehicles that meet the automotive requirements combining safety, lightness & performances.

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