



ROTAREX
EQUIPMENT



PRESSURE REGULATORS

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All Rotarex regulators are produced in Europe in accordance with international standards (ISO; CGA....) and are guaranteed to provide safe and reliable performance in operation. All locations are ISO 9001.

SINGLE STAGE HIGH PRESSURE REGULATORS



SERIES SC 280 - SC 380 P. 016

Technology	Diaphragm + cartridge
Inlet Pressure	200/300 bar 2900/4350 psi
Outlet Pressure	1,5/4/10/16/35 bar 21.75/58/150/250/508 psi
Flow Rate Nm³/h (N₂)	1/2/10/20/30
Material	Chrome-plated brass Stainless steel



SERIES SC 290 - 390 P. 018

Technology	Diaphragm + cartridge
Inlet Pressure	200/300 bar 2900/4350 psi
Outlet Pressure	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi
Flow Rate Nm³/h (N₂)	1,5/6/30/50/75
Material	Chrome-plated brass



SERIES SC 281 - SC 381 P. 020

Technology	Diaphragm + cartridge
Inlet Pressure	200/300 bar 2900/4350 psi
Outlet Pressure	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi
Flow Rate Nm³/h (N₂)	1/2/10/20/30
Material	Chrome-plated brass Stainless steel



SERIES SC 291 - SC 391 P. 022

Technology	Diaphragm + cartridge
Inlet Pressure	200/300 bar 2900/4350 psi
Outlet Pressure	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi
Flow Rate Nm³/h (N₂)	1,5/6/30/50/75
Material	Chrome-plated brass



SERIES S 220 P. 024

Technology	Diaphragm
Inlet Pressure	200 bar 2900 psi
Outlet Pressure	3/15/25/50 bar 44/218/360/725 psi
Flow Rate Nm³/h (N₂)	5/25/50/50
Material	Stainless steel



SERIES S 225 P. 026

Technology	Diaphragm
Inlet Pressure	200 bar 2900 psi
Outlet Pressure	3/8/16/35/50 bar 44/116/232/508/725 psi
Flow Rate Nm³/h (N₂)	2/10/14/25/25
Material	Chrome plated brass Stainless steel



SERIES S 250 / S 400 P. 028/P.030

Technology	Piston
Inlet Pressure	300 bar 4350 psi
Outlet Pressure	60/200 bar 870/2900 psi
Flow Rate Nm³/h (N₂)	10/30
Material	Chrome plated brass Stainless steel



SERIES S 800 P. 032

Technology	Diaphragm + Balanced-Valve
Inlet Pressure	300 bar 4350 psi
Outlet Pressure	10/16/25/50 bar 145/232/363/725 psi
Flow Rate Nm³/h (N₂)	50/50/50/100
Material	Raw brass Chrome plated brass Stainless steel



SERIES GD 100 P. 034

Technology	Diaphragm
Inlet Pressure	200 bar 2900 psi
Outlet Pressure	10 bar 145 psi
Flow Rate Nm³/h (N₂)	100
Material	Raw brass



SERIES TGD 250 P. 036

Technology	Diaphragm
Inlet Pressure	200 bar 2900 psi
Outlet Pressure	20 bar 290 psi
Flow Rate Nm³/h (N₂)	250
Material	Raw brass

DUAL STAGE HIGH PRESSURE REGULATORS



SERIES DC 280 - DC 380 P. 38

Technology	Diaphragm + cartridge
Inlet Pressure	200/300 bar 2900/4350 psi
Outlet Pressure	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi
Flow Rate Nm³/h (N₂)	1/2/10/20/30
Material	Chrome-plated brass Stainless steel



SERIES DC 290 - DC 390 P. 040

Technology	Diaphragm + cartridge
Inlet Pressure	200/300 bar 2900/4350 psi
Outlet Pressure	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi
Flow Rate Nm³/h (N₂)	1,5/6/30/50/75
Material	Chrome-plated brass



SERIES D 230 P. 042

Technology	Piston/Bellow
Inlet Pressure	200 bar 2900 psi
Outlet Pressure	1/3/10 bar 14.5/44/145 psi
Flow Rate Nm³/h (N₂)	2/2,5/3,5
Material	Chrome plated brass Stainless steel



SERIES D 235 P. 044

Technology	Diaphragm/Bellow
Inlet Pressure	300 bar 4350 psi
Outlet Pressure	1/3/10 bar 14.5/44/145 psi
Flow Rate Nm³/h (N₂)	1/2/5,5
Material	Chrome plated brass Stainless steel



SERIES D 235-0.1 P. 046

Technology	Diaphragm/Diaphragm
Inlet Pressure	300 bar 4350 psi
Outlet Pressure	0,01-0,1 bar 0.14-1.4 psi
Flow Rate Nm³/h (N₂)	0,5
Material	Chrome plated brass

LOW PRESSURE REGULATORS



SERIES S 10 P. 048

Technology	Diaphragm + Balanced-Valve
Inlet Pressure	25 bar 362.5 psi
Outlet Pressure	3/8 bar 44/116 psi
Flow Rate Nm³/h (N₂)	4,5/12
Material	Chrome plated brass Stainless steel



SERIES S 15 P. 050

Technology	Diaphragm + Balanced-Valve
Inlet Pressure	25 bar 362.5 psi
Outlet Pressure	10 bar 145 psi
Flow Rate Nm³/h (N₂)	50
Material	Chrome plated brass Stainless steel



SERIES S 20 P. 052

Technology	Bellow
Inlet Pressure	50 bar 725 psi
Outlet Pressure	1/3/10 bar 14.5/44/145 psi
Flow Rate Nm³/h (N₂)	2/2,5/3,5
Material	Chrome plated brass Stainless steel



SERIES S 20-0.1 P. 054

Technology	Diaphragm
Inlet Pressure	50 bar 725 psi
Outlet Pressure	0,01-0,1 bar 0.14-1.4 psi
Flow Rate Nm³/h (N₂)	0,5
Material	Chrome plated brass Stainless steel



SERIES S 55 P. 056

Technology	Diaphragm
Inlet Pressure	50 bar 725 psi
Outlet Pressure	3/8/10/16/35 bar 44/116/145/323/508 psi
Flow Rate Nm³/h (N₂)	2,5/3/3,5/5,5/10
Material	Chrome plated brass Stainless steel



SERIES DC 50 P. 058

Technology	Diaphragm + Balanced-Valve
Inlet Pressure	50 bar 725 psi
Outlet Pressure	8/15/40 bar 116/217/580 psi
Flow Rate Nm³/h (N₂)	150/300/300
Material	Raw brass Chrome plated brass

POINT OF USE REGULATORS | MOUNTED VERSIONS



SERIES S 21 P. 060

Technology	Bellow
Inlet Pressure	50 bar 725 psi
Outlet Pressure	1/3/10 bar 14.5/44/116 psi
Flow Rate Nm³/h (N₂)	2/2,5/3,5
Material	Chrome plated brass Stainless steel



LABLINE 22 P. 062

Technology	Bellow
Inlet Pressure	50 bar 725 psi
Outlet Pressure	1/3/10 bar 14.5/44/116 psi
Flow Rate Nm³/h (N₂)	2/2,5/3,5
Material	Chrome plated brass Stainless steel

POINT OF USE REGULATORS | INTEGRATED VERSIONS



MONO SERIES S 15 P. 064

Technology	Diaphragm + Balanced-Valve
Inlet Pressure	25 bar 362.5 psi
Outlet Pressure	10 bar 145 psi
Flow Rate Nm³/h (N₂)	50
Material	Aluminum Stainless steel



MONO SERIES S 20 P. 066

Technology	Bellow
Inlet Pressure	50 bar 725 psi
Outlet Pressure	1/3/10 bar 14.5/44/145 psi
Flow Rate Nm³/h (N₂)	2/2,5/3,5
Material	Aluminum Stainless steel



MONO SERIES S 40 P. 068

Technology	Bellow
Inlet Pressure	50 bar 725 psi
Outlet Pressure	1/3/10 bar 14.5/44/145 psi
Flow Rate Nm³/h (N₂)	2/2,5/3,5
Material	Aluminum Stainless steel

ACETYLENE APPLICATION REGULATORS



SERIES S 20 AD P. 070

Technology	Bellow
Inlet Pressure	20 bar 290 psi
Outlet Pressure	1,5 bar 21.75 psi
Flow Rate Nm³/h (C,H₂)	1
Material	Chrome plated brass



SERIES S 25 AD P. 072

Technology	Bellow
Inlet Pressure	20 bar 290 psi
Outlet Pressure	1,5 bar 21.75 psi
Flow Rate Nm³/h (C,H₂)	1
Material	Chrome plated brass



SERIES S 21 AD P. 060

Technology	Bellow
Inlet Pressure	20 bar 290 psi
Outlet Pressure	1,5 bar 21.75 psi
Flow Rate Nm³/h (C,H₂)	1
Material	Chrome plated brass



SERIES LABLINE 22 AD P. 062

Technology	Bellow
Inlet Pressure	20 bar 290 psi
Outlet Pressure	1,5 bar 21.75 psi
Flow Rate Nm³/h (C,H₂)	1
Material	Chrome plated brass



MONO SERIES S 20 AD P. 066

Technology	Bellow
Inlet Pressure	50 bar 725 psi
Outlet Pressure	1,5 bar 21.75 psi
Flow Rate Nm³/h (C,H₂)	1
Material	Aluminum



MONO SERIES S 40 AD P. 068

Technology	Bellow
Inlet Pressure	20 bar 290 psi
Outlet Pressure	1,5 bar 21.75 psi
Flow Rate Nm³/h (C,H₂)	1
Material	Aluminum



SERIES DC 50 AD P. 058

Technology	Diaphragm + Balanced-Valve
Inlet Pressure	1,5 bar 21.75 psi
Outlet Pressure	0,8 bar 12 psi
Flow Rate Nm³/h (C,H₂)	10
Material	Raw brass Chrome plated brass



SERIES GD 100 AD P. 034

Technology	Diaphragm
Inlet Pressure	25 bar 362.5 psi
Outlet Pressure	1,2 bar 17.4 psi
Flow Rate Nm³/h (C,H₂)	10
Material	Raw brass Chrome plated brass

CONSTANT FLOW REGULATORS



SERIES S 75 P. 074

Technology	Piston
Inlet Pressure	200 bar 2900 psi
Outlet Pressure	3,5/6 bar 50/87 psi
Flow Rate Nm³/h (N₂)	0,3-15 lpm
Material	Nickel plated brass Stainless steel



SERIES S 70 P. 076

Technology	Piston
Inlet Pressure	200 bar 2900 psi
Outlet Pressure	4,13/2,06 bar 30/60 psi
Flow Rate Nm³/h (N₂)	0,25-7 lpm
Material	Nickel plated brass Stainless steel

VALVES



SERIES VP 300 P. 077

Pressure	300 bar
CV	0.30
Material	Raw brass Chrome plated brass
Type	O-Ring
Handwheel	Multi-turn



SERIES VD P. 078

Pressure	50 bar or 200 bar
CV	0.12
Material	Chrome plated brass Stainless steel
Type	Diaphragm
Handwheel	¼ turn/Multi-turn



SERIES VLM P. 079

Pressure	50 bar
CV	0.14
Material	Chrome plated brass Stainless steel
Type	Diaphragm
Handwheel	¼ turn/Multi-turn



SERIES VM 45 P. 080

Pressure	45 bar
CV	0.58
Material	Chrome plated brass Stainless steel
Type	Diaphragm
Handwheel	¼ turn/Multi-turn



SERIES RD 10 P. 081

Pressure	60 bar
CV	0.116
Material	Chrome plated brass Stainless steel
Type	Needle valve
Handwheel	Multi-turn

ACCESSORIES



PRESSURE GAUGES P. 082



CYLINDER CONNECTORS P. 088



SV 10 RELIEF VALVE P. 090



GAS CYLINDER HOLDER P. 093

TECHNOLOGY OVERVIEW

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

DIAPHRAGM

- Our most-used technology (cylinder regulation, line, supply panel...)
- Compact design
- Good precision

BELLOW

- High precision of outlet pressure
- Less sensitive to the pressure increase at the outlet
- Mainly used for applications like chromatography

PISTON

- Stable outlet flow
- Used for regulator where the pressure outlet is close to the inlet pressure
- Used as the 1st stage for a dual stage regulator
- Used for calibration regulator

BALANCED-VALVE

- Best-in-class pressure stability
- Minimizes the effect of inlet pressure fluctuations on outlet pressure
- Increases regulator lifetime and reduces cost of ownership by reducing seat effort
- Diaphragm technology only

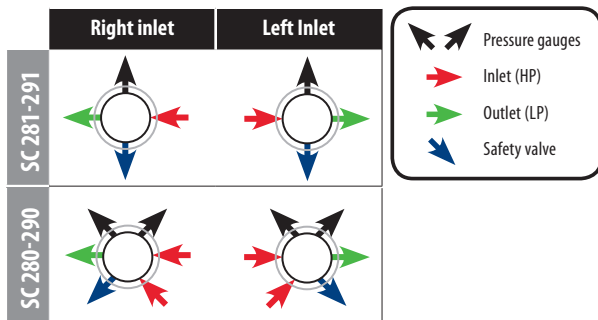
SINGLE STAGE REGULATOR

A **single stage regulator** will reduce the inlet pressure to the outlet pressure in one step. By turning the hand wheel we can adjust the outlet pressure. Due to the design of single stage regulators, the outlet pressure increases as cylinder pressure decreases. The outlet pressure can be re-adjusted by the hand wheel.

Because of this small pressure rise, single stage regulators are recommended for applications that do not require a constant outlet pressure.

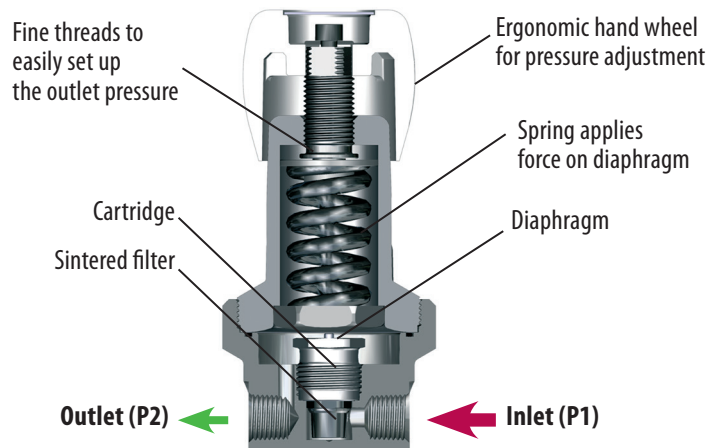
Single stage regulators are also recommended for liquefied gas service such as CO₂, Propane, LPG, cryogenic gases and other gases that are liquid in the cylinder.

CARTRIDGE REGULATOR



Superior technical performance with cartridge technology:

- Better outlet pressure stability due to the cartridge design. Outlet pressure remains stable despite any fluctuation of inlet pressure.
- Longer product life due to less impingement on the diaphragm.
- Compact design with reduction of dead volume (minimal purge requirements)
- Sintered inlet filter provides better filtration without restricting flow.



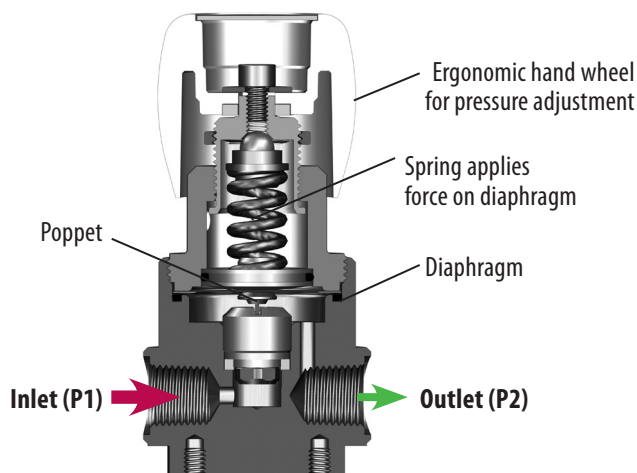
PRODUCT FINDER

ROTAREX
single stage regulators

Series SC 280/380	P. 016
Series SC 290/390	P. 018
Series SC 281/381	P. 020
Series SC 291/391	P. 022

TECHNOLOGY OVERVIEW (continued)

DIAPHRAGM REGULATOR

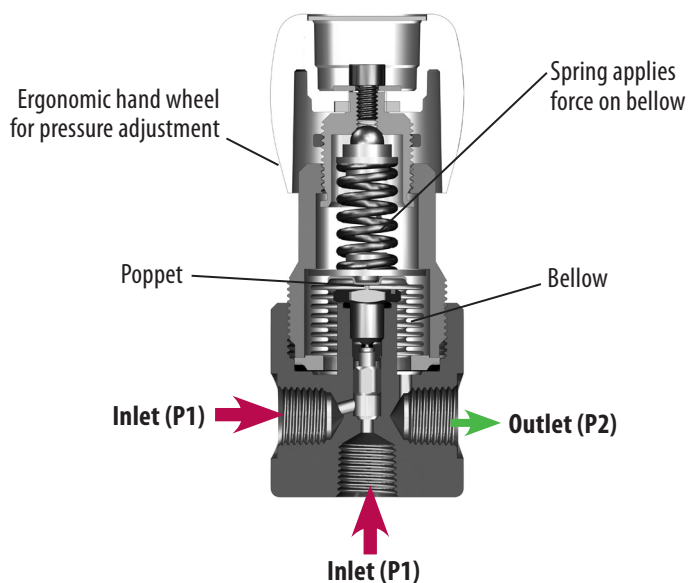


PRODUCT FINDER

ROTAREX diaphragm regulators

Series S 220	P. 024
Series S 225	P. 026
Series GD 100	P. 034
Series TGD 250	P. 036
Series S 20-0.1	P. 054
Series S 55	P. 056

BELLOW REGULATOR

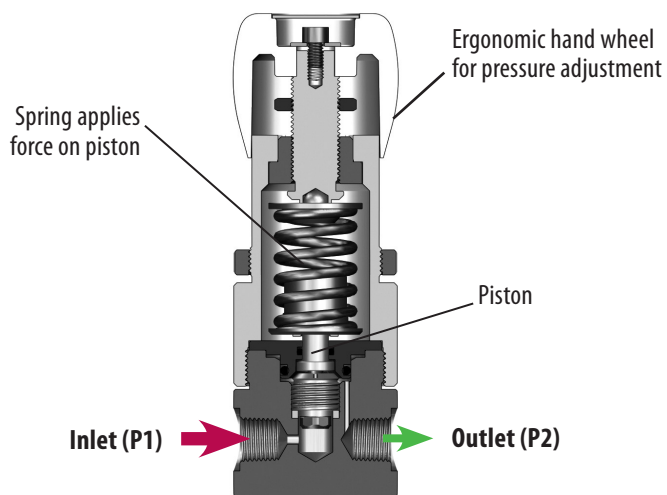


PRODUCT FINDER

ROTAREX bellow regulators

Series S 20	P. 052
Series S 21	P. 060
Labline 22	P. 062
Mono Series S 20	P. 066
Mono Series S 40	P. 068
Series S 20 AD	P. 070
Series S 21 AD	P. 060
Series S 25 AD	P. 072
Labline 22 AD	P. 062

PISTON REGULATOR



PRODUCT FINDER

ROTAREX piston regulators

Series S 250	P. 028
Series S 400	P. 030

TECHNOLOGY OVERVIEW (continued)

DUAL STAGE REGULATORS

A **dual stage regulator** is basically two single stage regulators in a single body. This dual configuration provides superior pressure and flow stability vs. single stage regulators.

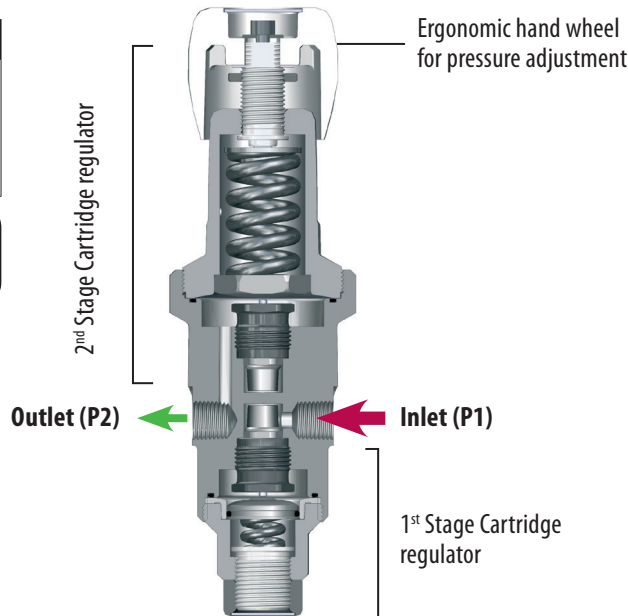
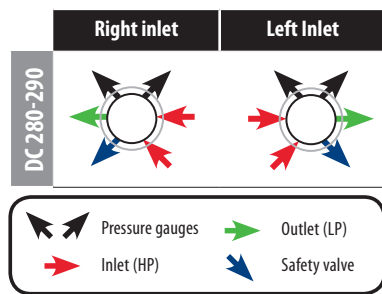
The first stage is preset to an intermediate pressure. This intermediate pressure acts as the inlet pressure to the second stage, which is adjustable.

Because the pressure has been reduced to the intermediate pressure by the first stage, the pressure feeding the second stage of the regulator

remains constant, thereby insuring a constant outlet pressure to the application regardless of cylinder pressure. This technology avoids having to frequently adjust the outlet pressure as the cylinder pressure drops.

Applications would be laboratory, gas chromatography but also in the industry for precision welding.

CARTRIDGE REGULATOR

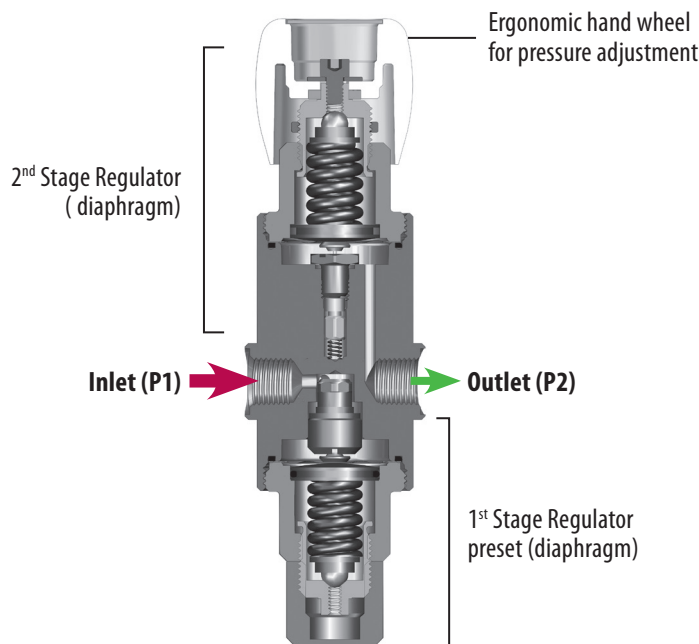


PRODUCT FINDER

ROTAREX dual stage regulators

Series DC 280/380	P. 038
Series DC 290/390	P. 040

DIAPHRAGM/DIAPHRAGM REGULATOR



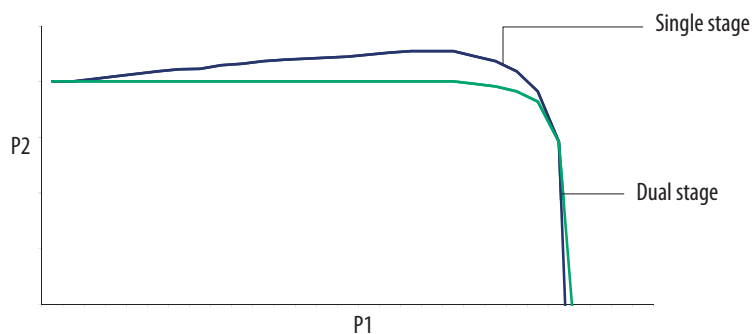
PRODUCT FINDER

ROTAREX diaphragm /diaphragm regulators

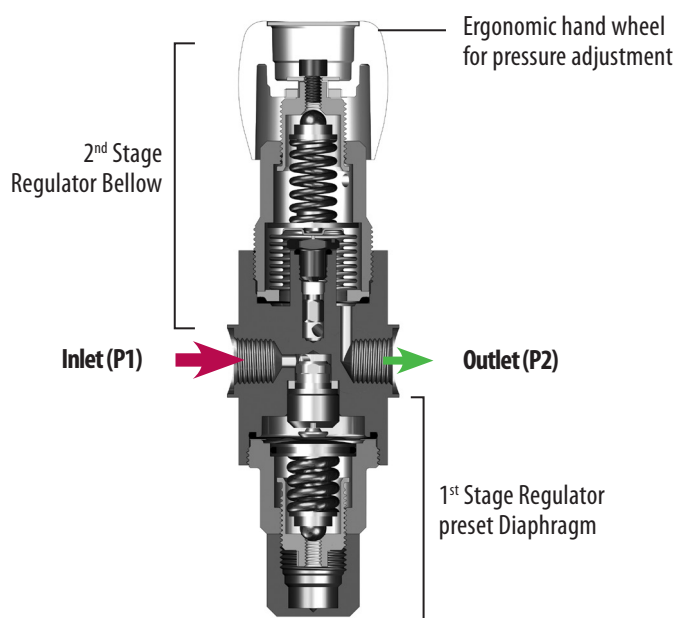
Series D 235-0.1	P. 046
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TECHNOLOGY OVERVIEW (continued)

COMPARISON OF DUAL STAGE VS. SINGLE STAGE REGULATOR

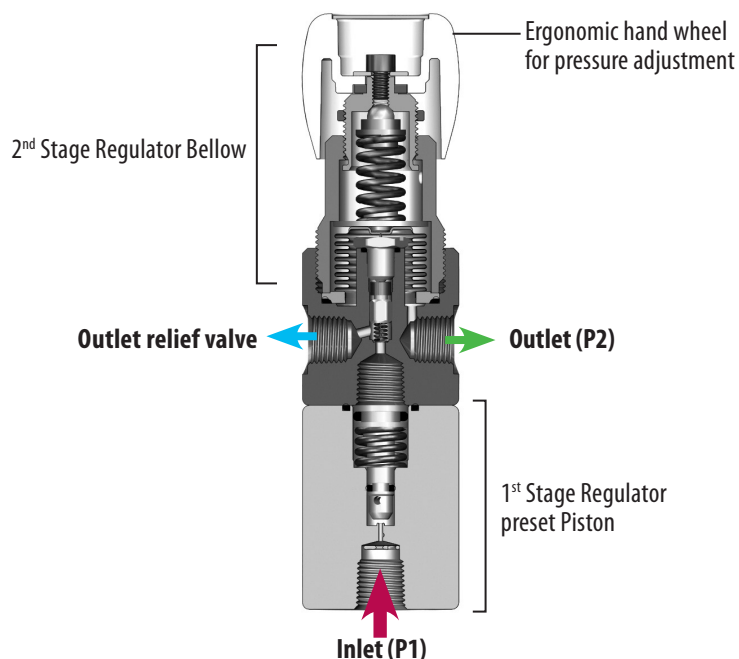


DIAPHRAGM/BELLOW REGULATOR



PRODUCT FINDER
 ROTAREX
 diaphragm /bellow regulators
 Series D 235 P. 044

PISTON/BELLOW REGULATOR



PRODUCT FINDER
 ROTAREX
 piston /bellow regulators
 Series D 230 P. 042

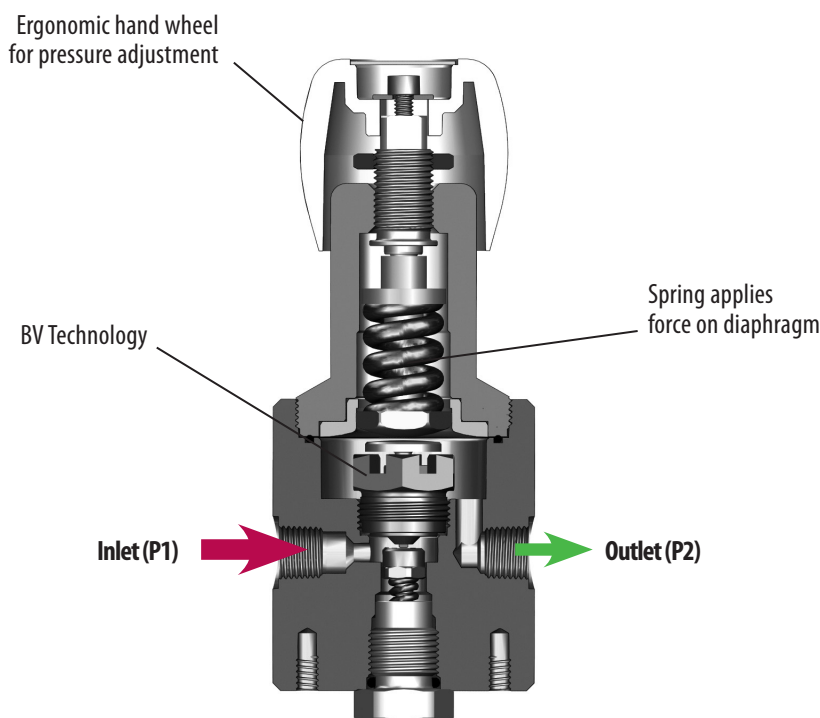
TECHNOLOGY OVERVIEW (continued)

BALANCED-VALVE TECHNOLOGY

Balanced-Valve (BV-technology) regulator gives best-of-class pressure stability due to its proprietary design of components in the high pressure zone. It is able to balance the internal forces within the regulator and virtually eliminate the effects of decreasing inlet pressure on the outlet pressure. This means that the regulator balances and compensates for any pressure fluctuation on the inlet and provides a constant outlet pressure like a dual stage regulator.

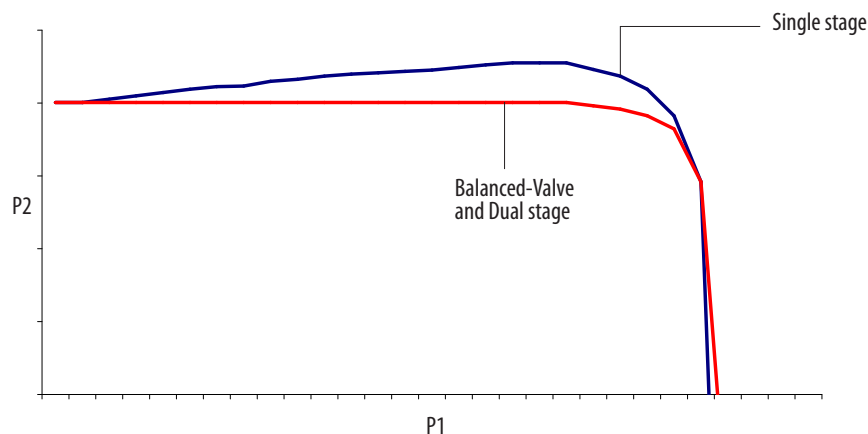
This regulator type also functions as a LINE REGULATOR for a 2nd regulation and can equip our switch over boards. Switch over boards equipped with this technology don't need any line regulator afterwards and can be connected directly to the application.

BALANCED-VALVE TECHNOLOGY



PRODUCT FINDER	
ROTAREX balanced-valve regulators	
Series S 800	P. 032
Series S 10	P. 048
Series S 15	P. 050
Series DC 50	P. 058

COMPARISON OF BALANCED-VALVE TECHNOLOGY VS. DUAL AND SINGLE STAGE REGULATORS



SELECTING THE RIGHT REGULATOR

To choose the right regulator for your application, and to get the best results, you should identify the following technical parameters:

TECHNICAL PARAMETER	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, Nlpm Slpm or SCFM
Single stage or dual stage ?	Dual stage or BV Technology are needed where pressure stability is essential
Product	Regulator, point of use, supply board, switch over board
Material	Brass, chrome plated brass, stainless steel
Inlet connection	Country of use, standard, connection
Outlet connection	G 3/8, 1/4 NPT, male, female
Gauges	Low pressure, high pressure
Safety device	Yes / no
Vacuum	Yes / no
Application	Food, electronic, medical, welding, industrial, diving...
Outdoor or indoor use	Environment
Temperature range	-20°C to + 60°C / -4°F to + 140°F
Atox use	Yes / no
Preset outlet pressure	If yes, which pressure ?
Marking	CE, TPED, PI

Each product page is designed to provide you the essential technical information at a glance :

SERIES SC 280 - SC 380 SINGLE STAGE HP CARTRIDGE REGULATOR

APPLICATIONS

- Designed for cylinder regulator applications
- Ideally suited for gas, inert and oxidizing gases
- Applications such as:
 - Calibration gases
 - Controlled atmosphere
 - High purity gas carrying

KEY FEATURES

- This single stage regulator is based on the Cartridgeless Technology.
- Compact, ergonomic and lightweight design makes this regulator suitable for many applications.
- Accurate pressure control for reliable service.
- Manufactured in compliance with ATEX regulations and easy to clean.
- Could be equipped with a shutoff valve
- Ball valve need no maintenance*
- Brass Version: EPDM
- Stainless Steel: PTFE

SPECIFICATIONS

Body/ports: 1" NPT (Inlet / Outlet)	Weight: 2.3 kg (5.06 lb)	Inlet pressure: 200/300 bar (2900/4350 psi)
Valve seal: PTFE	Seal scale: 10" under EA/IE	Outlet pressure: 1.5/1.0/0.5/0.3 bar (21.7/14.5/7.2/4.35/0.508 psi)
O-ring: PTFE	Temperature range: -40° to + 60°C (-40°F to + 140°F)	Nominal flow: 1/2/1/2/0.5/0.3 Nm ³ /h (N ₂) (0.1)
Diaphragm: Teflon™/PTFE	Gauges: High and low pressure (EN 837)	Regain rate: 18 with hose and cables reel

FLOW CURVES

PRODUCT CONFIGURATOR

Body Material	Inlet Pressure	Stage Configuration	Outlet Pressure	Outlet Connection	Gauges	Gas Type
Chrome plated Steel	200 bar	380 Right label	1.5 bar	1/4" NPT	With	1
Stainless steel	200 bar	380 Left label	1.5 bar	1/4" NPT	With	1

SELECTING THE RIGHT REGULATOR (continued)

BODY MATERIALS

Most Rotarex pressure regulators are available in stainless steel 316L or chrome plated brass, and on some models, raw brass or aluminum. Which material is best for your installation?

Stainless steel 316L: The recommended option for corrosive gases and high to ultra high purity applications due to its superior resistance, non-reactivity, exceptional durability and high-surface finish properties. It is compatible with most gas types and low-velocity oxygen applications.

Rotarex uses Stainless steel type 316L, an austenitic chromium nickel stainless steel containing Molybdenum. It offers:

- Exceptional corrosion resistance - particularly against sulfuric, hydrochloric; acetic, formic and tartaric acids, acid sulfates and alkaline chlorides;
- resistance to pitting from chloride-ion solutions; and
- outstanding strength even at elevated temperatures

Chrome plated or Raw brass: The most commonly used material for industrial and high velocity oxygen applications due to its cost effectiveness versus stainless steel, good strength, resistance and low-friction flow properties.

Need more information? You can find more detail about optional materials on our website: www.rotarex.com. Additionally, one of our material engineers would be happy to discuss the pros and cons of each option to help you choose the best solution.



Gas Compatibility: make sure the body material is compatible with the gas type you will be using. Consult the gas compatibility reference chart on page 96.

O-RING MATERIALS

For many regulators, a choice of O-ring seal materials is available:

EPDM: Ethylene Propylene Rubber
 NBR: Nitrile Butadiene Rubber
 FPM: Fluorocarbon Rubber (VITON®)

For Cartridge:

PTFE: Polytétrafluoroéthylène



Gas Compatibility: make sure the O-ring material is compatible with the gas type you will be using. Consult the gas compatibility reference chart on page 96.

INLET / OUTLET PRESSURE

Different models are designed for different inlet and outlet pressure performance. The available options are clearly indicated on each product page. Please specify required inlet and outlet pressures when ordering. We can also accommodate special requests.

CYLINDER CONNECTORS

Specific cylinder valve connections are required for each gas type. The standard available connections are NPT 1/4" male and 16 x 1.336 male which represent the most common connection types. Other standards and dimensions are available on request.

GAUGES

Most Rotarex regulators are equipped with pressure gauges. However, you can specify with or without gauges when ordering. Check the product configurator table on each product page.

SELECTING THE RIGHT REGULATOR (continued)

RELIEF VALVE

Relief valves are standard on most Rotarex regulators and adapted to the gas type.

SEAL MATERIAL

For all cartridge regulators the seat seal is PTFE which provides a wide chemical compatibility, good temperature resistance, and better dimensional stability than traditional seals.

DIAPHRAGM MATERIAL

All cartridge regulators are equipped with a Hastelloy® diaphragm, which is ideally adapted to high purity applications and is compatible with all types of gases, and has exceptional elasticity and high corrosion

resistance. Consequently, this diaphragm outperforms traditional stainless steel diaphragms in terms of pressure stability and long cycle lifetime.

FILTER MATERIAL

Rotarex cartridge regulators employ a Sintered Filter in 316L for the stainless steel and bronze for brass version.

- The function of this filter is to protect the regulator against foreign particle coming from the gas or during installation. In any case a filter has to be installed on the line based on your cleanliness requirements.

OTHER PRODUCT OPTIONS

Some product solutions have additional options specific to its unique application, such as mounting options, flow scale, valve type, etc. These options are clearly indicated on the product configuration table on each product page.

16 SINGLE STAGE HIGH-PRESSURE REGULATORS

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

APPLICATIONS

- Designed for cylinder regulator applications
- Stably control for pure, inert and corrosive gas
- Applications such as:
 - Calibration gases
 - Controlled atmosphere
 - High purity gas carrying

KEY FEATURES

- This single stage regulator is based on the cartridge seal technology.
- Contact, compact and lightweight design makes the regulator suitable for many applications.
- Accurate pressure control for reliable service.
- Available in compliance with HSE regulations and easy to clean.
- Calibrated and equipped with a shut off valve.
- Ball valve shut off valve available*
- Stainless Steel: 316L
- Stainless Steel: 316L

COMPACT AND LIGHTWEIGHT DESIGN

- 1.5 liter / 0.5 quart
- 1/2" NPT inlet compatible
- 1/2" NPT outlet compatible
- Ball valve shut off valve
- Ball valve shut off valve

TO BE CONNECTED WITH CYLINDER CONNECTION

Refer to page 16

SINGLE STAGE HIGH-PRESSURE REGULATORS 17

SPECIFICATIONS

Body parts: 1/2" NPT (steel / stainless)	Weight: 0.17 kg / 0.37 lb	Set pressure: 200/300 bar / 2900/4350 psi
Valve seal: PTFE	Leak rate: 10 ⁻⁶ mbar D.L./h	Outlet pressure: 1.5 bar / 21.75 psi
O-ring: PTFE	Temperature range: -40°C to +40°C / -40°F to +104°F	Rated flow: 1.0 / 14.3 / 200 Nm ³ / h (R) / 0.1 / 1.4 / 20 SCFH
Diaphragm: Hastelloy®	Design: High and low pressure (2/4NPT)	Design set: OK with brass and stainless steel

FLOW CURVES

PRODUCT CONFIGURATOR

Body Material	Inlet Pressure	Port Configuration	Outlet Pressure	Outlet Connection	Outlet Connection	Length	Kit Type
Chrom-nickel 1.4	200 bar / 2900 psi	200 Right side	1.5 bar / 21.75 psi	1/2" NPT	1/2" NPT	110 mm / 4.33"	Kit
Stainless steel 316L	200 bar / 2900 psi	200 Left side	1.5 bar / 21.75 psi	1/2" NPT	1/2" NPT	110 mm / 4.33"	Kit
Stainless steel 316L	200 bar / 2900 psi	200 Right side	1.5 bar / 21.75 psi	1/2" NPT	1/2" NPT	110 mm / 4.33"	Kit
Stainless steel 316L	200 bar / 2900 psi	200 Left side	1.5 bar / 21.75 psi	1/2" NPT	1/2" NPT	110 mm / 4.33"	Kit
Stainless steel 316L	200 bar / 2900 psi	200 Right side	1.5 bar / 21.75 psi	1/2" NPT	1/2" NPT	110 mm / 4.33"	Kit
Stainless steel 316L	200 bar / 2900 psi	200 Left side	1.5 bar / 21.75 psi	1/2" NPT	1/2" NPT	110 mm / 4.33"	Kit

CLEANING

All products, regardless of gas application, are cleaned to remove all traces of residue and grease using the same procedures as for O₂ use. There is no need to specify special cleaning when ordering.

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

- Diaphragm Single Stage
- Purity up to 6.0
- Inlet Pressure:
200 bar (2900 psi)
300 bar (4350 psi)
- Outlet Pressure:
1,5/4/10/16/35 bar
21.75/58/145/232/508 psi

- ★ Compact and lightweight design
- ★ 1 Inlet / 1 Outlet
- ★ O₂ application compatible (see technical data)
- ★ Inlet / Outlet pressure gauge
- ★ Rear threads for panel mounting
- ★ 1 relief valve

Special requirements on request

APPLICATIONS

- Designed for cylinder regulator applications
- Ideally suited for pure, inert and corrosive gas
- Applications such as:
 - Calibration gases
 - Controlled atmosphere
 - High purity gas carrying

KEY FEATURES

- This single stage regulator is based on the Cartridge seat Technology.
- Compact, ergonomic and lightweight design makes this regulator suitable for many applications.
- Accurate pressure control for reliable service.
- Handwheel in compliance with ATEX regulation and easy to clean
- Could be equipped with a shut off valve
- Relief valve seat seals material*
 - Brass Version: EPDM
 - Stainless Steel: FPM

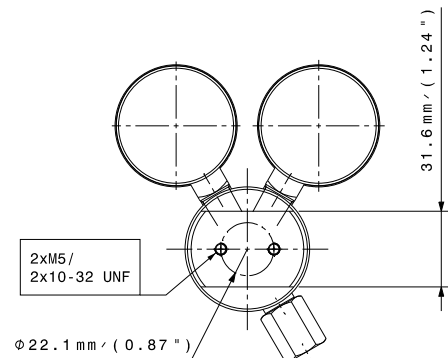
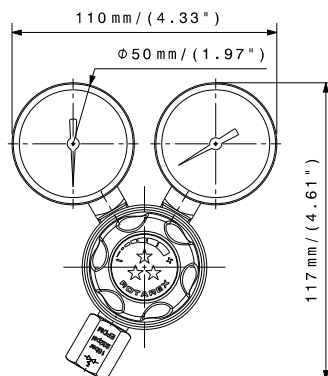
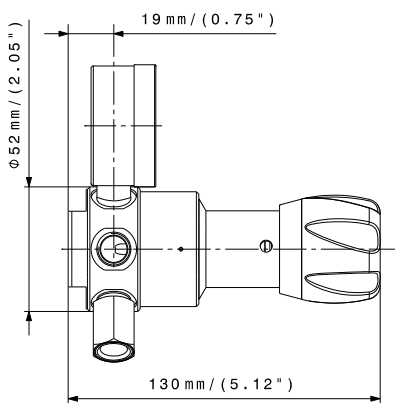
*Other on demand



To be connected with cylinder connectors



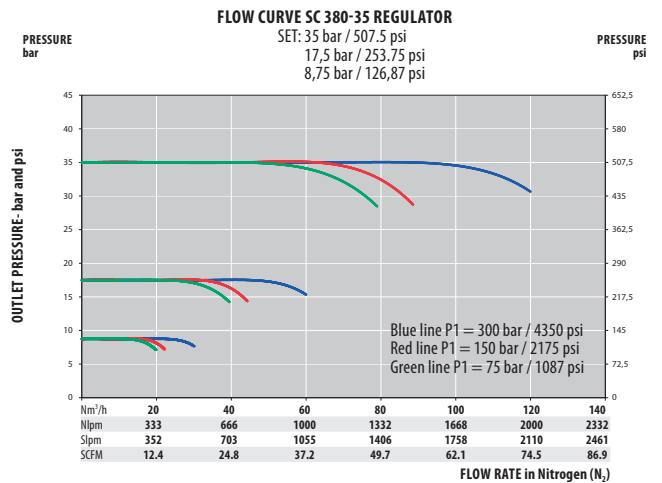
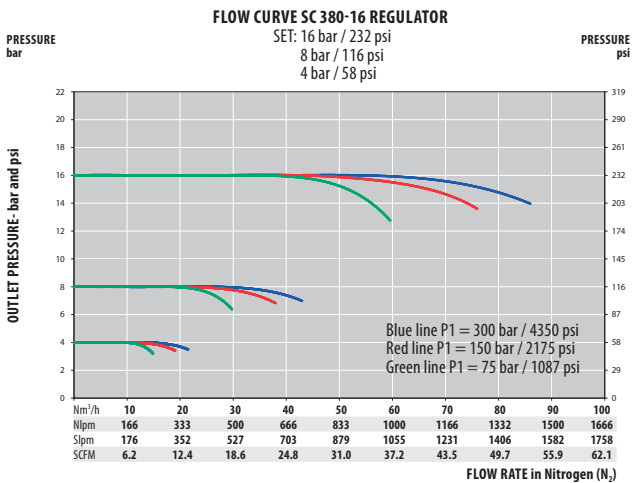
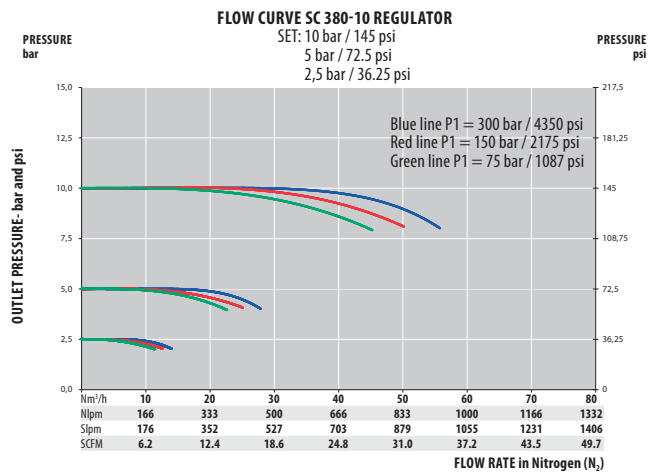
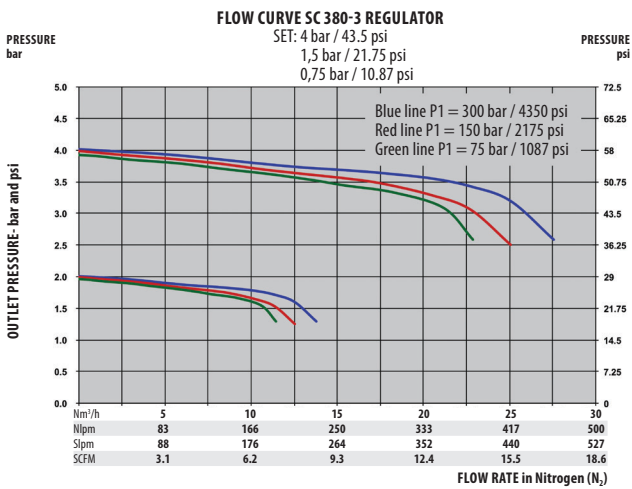
Refer to page 90



SPECIFICATIONS

Female ports	¼" NPT (inlet / outlet)	Weight	± 1,1 kg ± 2.4 lbs	Inlet pressure	200/300 bar 2900/4350 psi
Valve seal	PCTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi
O-ring	PTFE	Temperature range	- 40°C to + 60°C - 40°F to + 140°F	Nominal Flow Cv	1/2/10/20/30 Nm ³ /h (N ₂) 0.1
Diaphragm	Hastelloy®	Gauges	High and low pressure (¼ NPT)	Oxygen use	OK with brass and stainless steel

FLOW CURVES



PRODUCT CONFIGURATOR

	Body Material	Inlet Pressure	Port Configuration	Outlet pressure	Inlet Connection	Outlet Connection	Gauges	Gas Type
SC	L	280	R	10	N	N	1	N2
	Chrome plated brass	L 200 bar / 2900 psi	Right inlet	R 1,5 bar / 21.75 psi	¼ NPT	N ¼ NPT	Without	0
	Stainless steel	I 300 bar / 4350 psi	Left inlet	L 4 bar / 58 psi	Compression tube fitting UMS16	6 Compression tube fitting UMS16	With	1
				10 bar / 145 psi	Compression tube fitting UMS18	8 Compression tube fitting UMS18		
				16 bar / 232 psi	Compression tube fitting UMS1½"	¾" Compression tube fitting UMS1½"		
				35 bar / 508 psi	Compression tube fitting UMS1¼"	¼" Compression tube fitting UMS1¼"		

SERIES SC 290 - SC 390 | SINGLE STAGE HP CARTRIDGE REGULATOR

- Diaphragm Single Stage
- Purity up to 6.0
- Inlet Pressure:
200 bar (2900 psi)
300 bar (4350 psi)
- Outlet Pressure:
1,5/4/10/16/35 bar
21.75/58/145/232/508 psi

- ★ High flow regulator
- ★ 1 Inlet / 1 outlet
- ★ O₂ application compatible (see technical data)
- ★ Inlet / outlet pressure gauges
- ★ 1 relief valve

Special requirements on request

To be connected with cylinder connectors



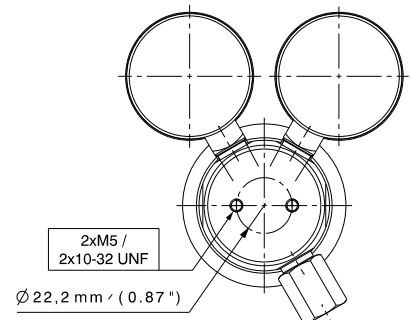
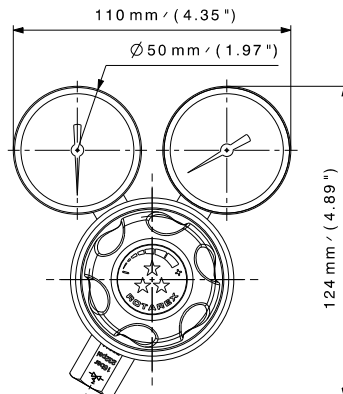
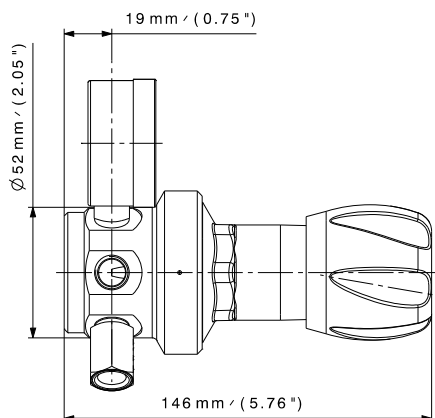
Refer to page 90

APPLICATIONS

- Designed for cylinder regulator applications
- Acetylene application like Atomic Absorption Flame Spectrometry
- Purge gas application
- Laser application (carrying gas)

GENERAL

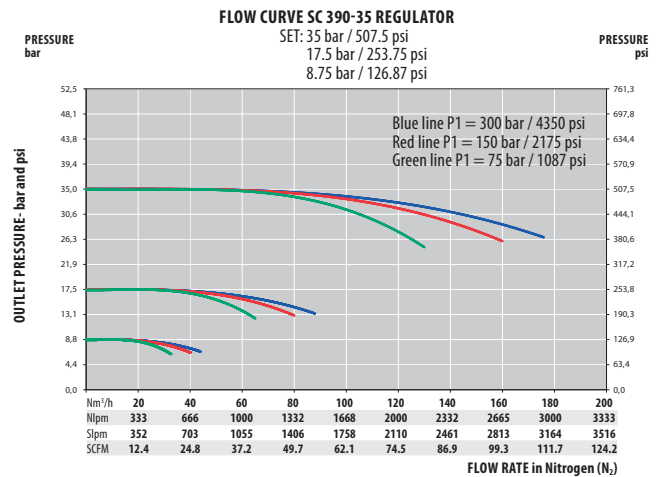
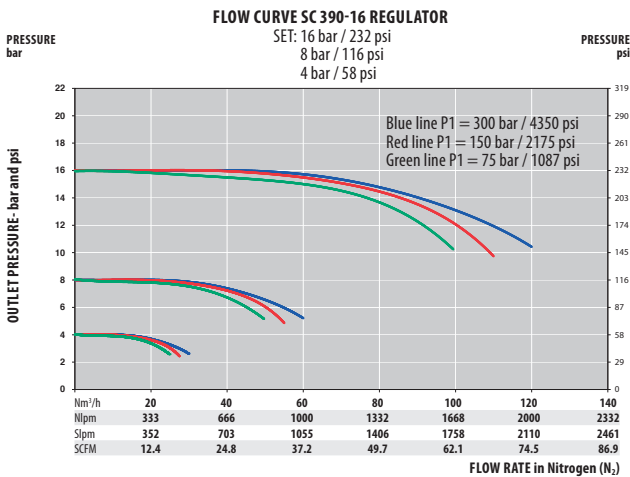
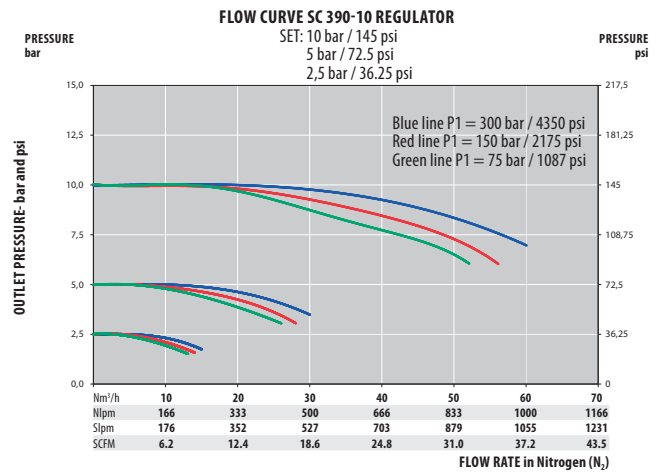
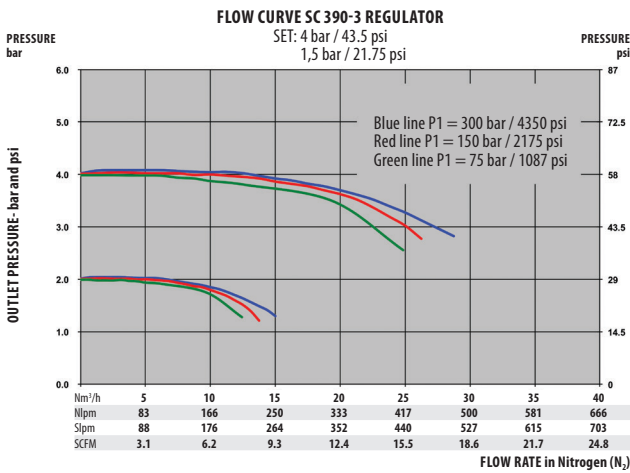
- This single stage regulator is based on the Cartridge seat Technology.
- High Flow regulator with a very stable outlet pressure based on the cartridge technology
- Accurate pressure control for reliable service
- Acetylene version available at the outlet
- Only in chrome plated brass
- Could be equipped with a shut off valve
- Relief valve seat seals material
 - Brass Version: EPDM



CHARACTERISTICS

Female ports	¼" NPT (Inlet/Outlet)	Weight	± 1,4 kg ± 3.0 lbs	Inlet pressure	200/300 bar 2900/4350 psi
Valve seal	PCTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi
O-ring	PTFE	Temperature range	- 40°C to + 60°C - 40°F to + 140°F	Nominal Flow Cv	1,5/6/30/50/75 Nm ³ /h (N ₂) 0.2
Diaphragm	Hastelloy®	Gauges	High and low pressure (¼ NPT)	Oxygen use	OK with brass

FLOW CURVES



PRODUCT CONFIGURATOR

	Body Material	Inlet Pressure	Port Configuration	Outlet pressure	Inlet Connection	Outlet Connection	Gauges	Gas Type
SC	L	290	R	10	N	N	1	N2
	Chrome plated brass	200 bar 2900 psi	Right inlet	1,5 bar 21.75 psi	¼ NPT	¼ NPT	Without	0
		300 bar 4350 psi	Left inlet	4 bar 58 psi	Compression tube fitting UMS110	10 Compression tube fitting UMS110	With	1
				10 bar 145 psi	Compression tube fitting UMS112	12 Compression tube fitting UMS112		
				16 bar 232 psi	Compression tube fitting UMS1¾"	¾" Compression tube fitting UMS1¾"		
				35 bar 508 psi	Compression tube fitting UMS1½"	½" Compression tube fitting UMS1½"		

SERIES SC 281 - SC 381 | LINE HP CARTRIDGE REGULATORS

- Diaphragm Single Stage
- Purity up to 6.0
- Inlet Pressure:
200 bar (2900 bar)
300 bar (4350 bar)
- Outlet Pressure:
1,5/4/10/16/35 bar
21.75/58/145/232/508 psi

- ★ Compact and lightweight design
- ★ 1 Inlet / 1 Outlet
- ★ O₂ application compatible (see technical data)
- ★ Outlet pressure gauge
- ★ 1 relief valve

Special requirements on request

To be connected with cylinder connectors



Refer to page 90

APPLICATIONS

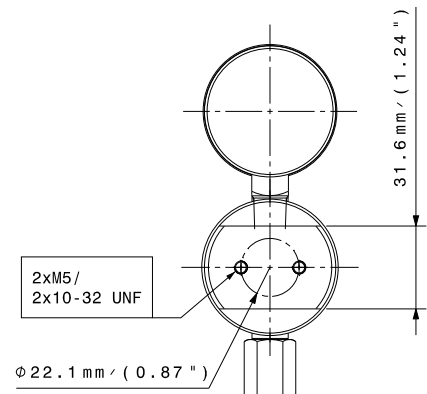
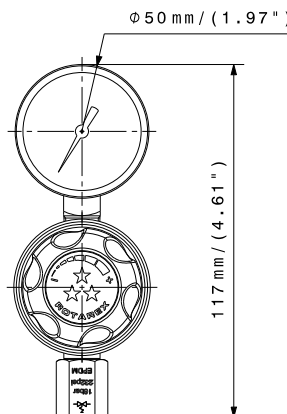
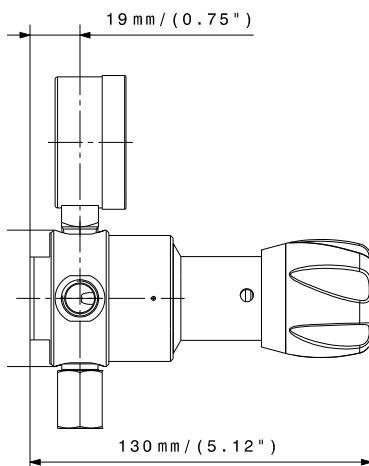
- Designed for line regulator applications when the supply of speciality gases is demanded in laboratory or in industrial environment
- Used in calibration gas mixtures for petrochemical industry, environmental emission monitoring, industrial hygiene of safety monitors and trace impurity analyzers.

GENERAL

This line regulator is based on the Cartridge seat Technology.

- This regulator is an accurate pressure control for reliable service.
- Ideally designed either for line regulator or point of use applications.
- Compact outline dimensions and ergonomic design make this regulator suitable for many applications.
- Could be equipped with a shut off valve at the outlet.
- Handwheel in compliance with ATEX regulation and easy to clean
- Relief valve seat seals material*
 - Brass Version: EPDM
 - Stainless Steel: FPM

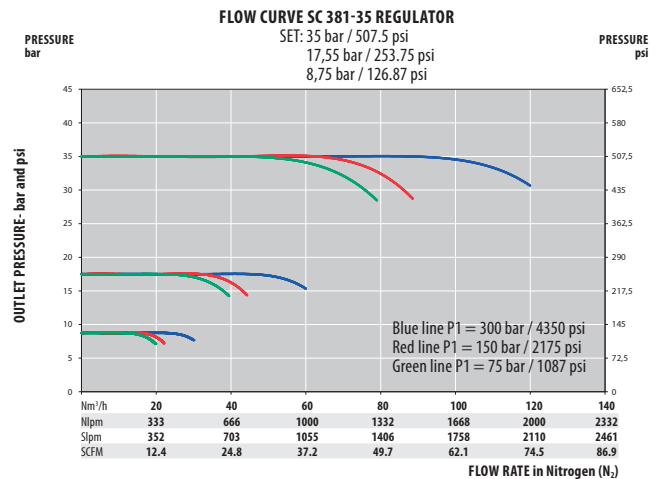
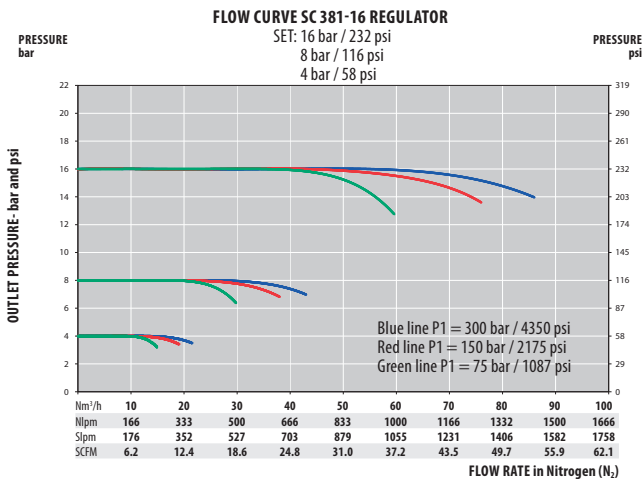
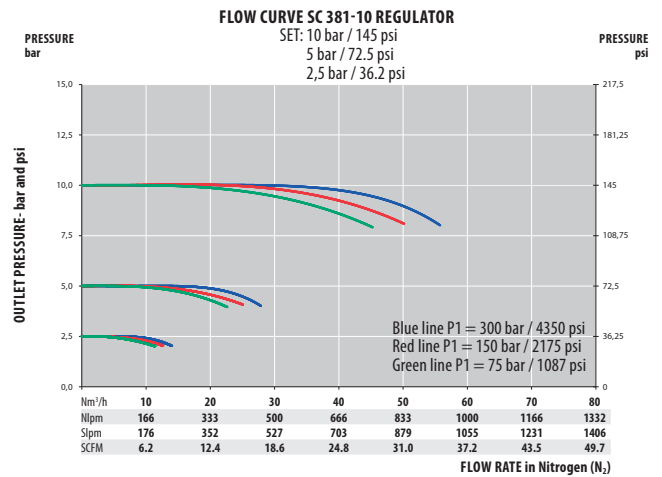
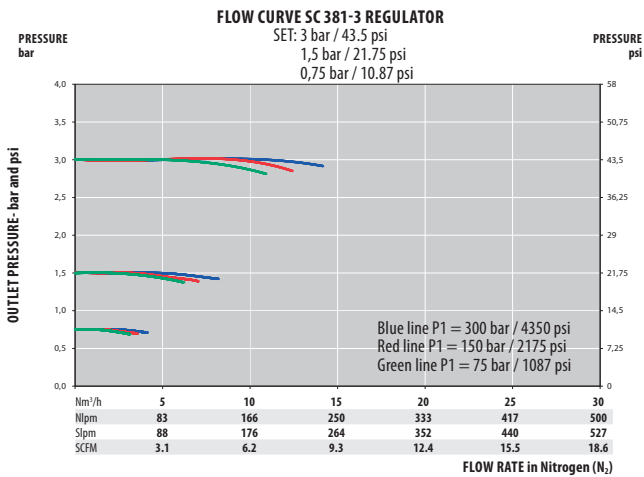
*Other on demand



SPECIFICATIONS

Female ports	¼" NPT (Inlet/Outlet)	Weight	± 1,0 kg ± 2.0 lbs	Inlet pressure	200/300 bar 2900/4350 psi
Valve seal	PCTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1,5/4/10/16/35 bar 21.75/58/150/250/500 psi
O-ring	PTFE	Temperature range	- 40°C to + 60°C - 40°F to + 140°F	Nominal Flow Cv	1/2/10/20/30 Nm ³ /h (N ₂) 0.1
Diaphragm	Hastelloy®	Gauges	Low pressure (¼ NPT)	Oxygen use	OK with brass and stainless steel

FLOW CURVES



PRODUCT CONFIGURATOR

SC	Body Material		Inlet Pressure		Port Configuration		Outlet pressure		Inlet Connection		Outlet Connection		Gauges		Gas Type	
	L	I	200 bar	281	R	L	10	15	N	N	N	1	0	N2		
	Chrome plated brass	L	200 bar 2900 psi	281	Right inlet	R	1,5 bar 21.75 psi	1,5	¼ NPT	N	¼ NPT	N	Without	0		
	Stainless steel	I	300 bar 4350 psi	381	Left inlet	L	4 bar 58 psi	4	Compression tube fitting UMS16	6	Compression tube fitting UMS16	6	With	1		
							10 bar 145 psi	10	Compression tube fitting UMS18	8	Compression tube fitting UMS18	8				
							16 bar 232 psi	16	Compression tube fitting UMS1½"	½"	Compression tube fitting UMS1½"	½"				
							35 bar 508 psi	35	Compression tube fitting UMS1¼"	¼"	Compression tube fitting UMS1¼"	¼"				

SERIES SC 291 - SC 391 | LINE CARTRIDGE REGULATOR

- Diaphragm Single Stage
- Purity up to 6.0
- Inlet Pressure:
200 bar (2900 bar)
300 bar (4350 bar)
- Outlet Pressure:
1,5/4/10/16/35 bar
21.75/58/145/232/508 psi

- ★ High flow line regulator
- ★ 1 Inlet / 1 Outlet
- ★ O₂ application compatible (see technical data)
- ★ Outlet pressure gauge
- ★ 1 relief valve

Special requirements on request

To be connected with cylinder connectors



Refer to page 90

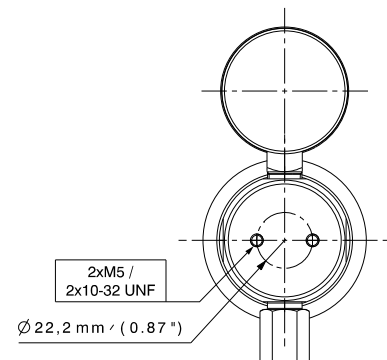
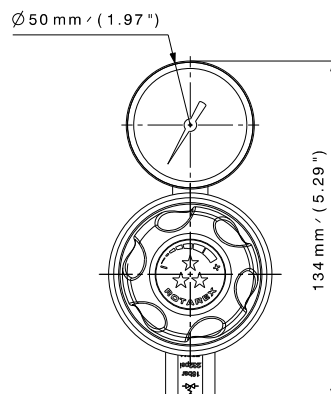
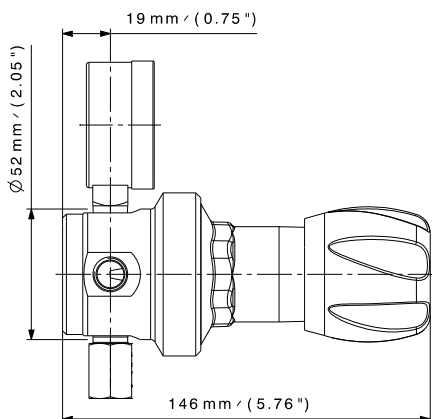
APPLICATIONS

- Ideally for high flow and high pressure applications
- Designed for line regulator applications when the supply of specialty gases is demanded in laboratory or in industrial environment
- Used in calibration gas mixtures for petrochemical industry, environmental emission monitoring, industrial hygiene or safety monitors and trace impurity analyzers.

GENERAL

This line regulator is based on the Cartridge seat Technology.

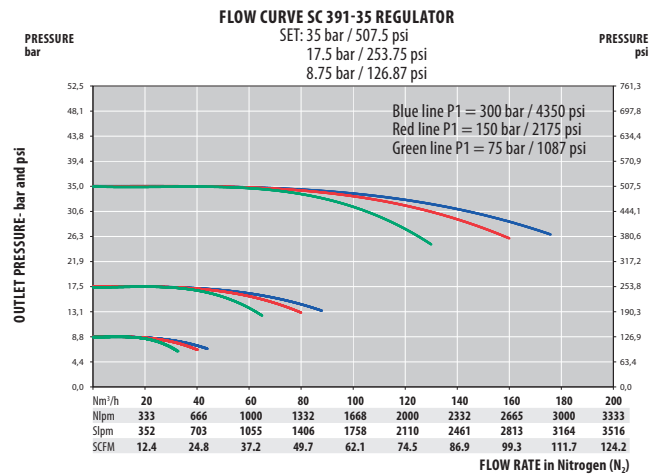
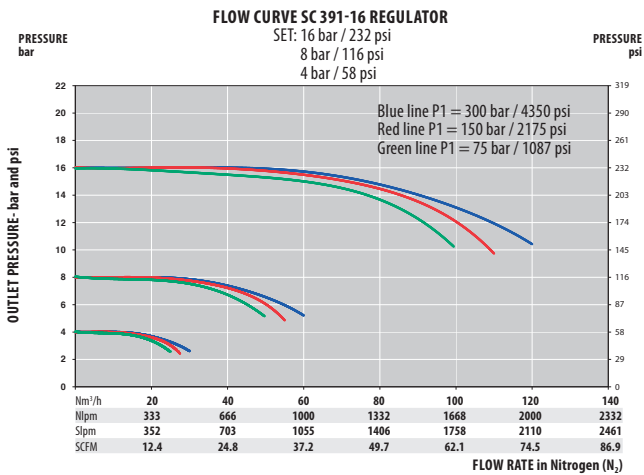
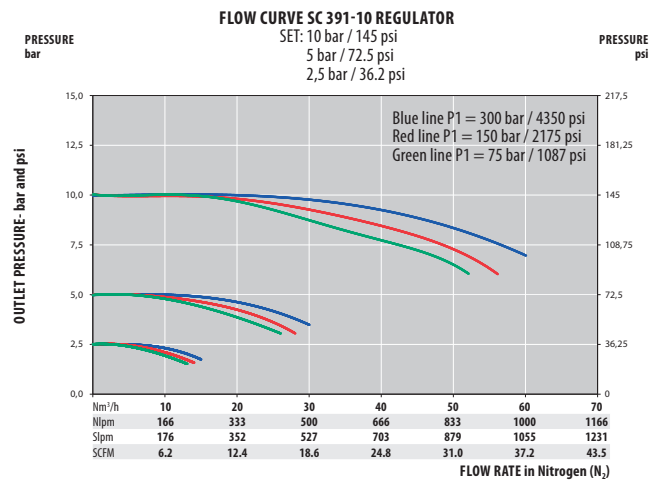
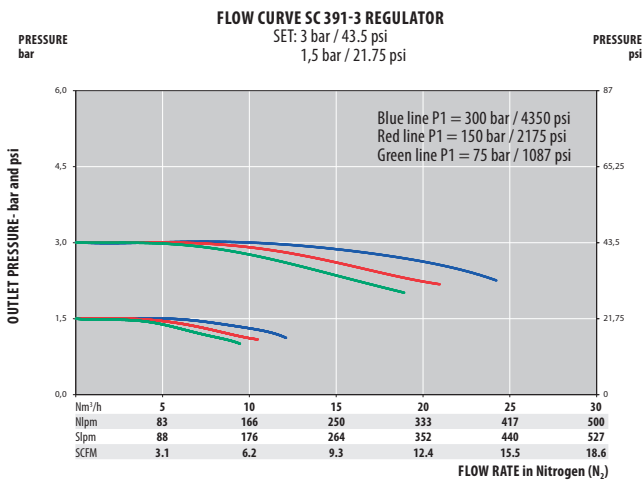
- This regulator is an accurate pressure control for reliable service.
- Ideally designed for line regulator or point of use applications
- Could be equipped with a shut off valve
- Relief valve seat seals material:
 - Brass Version: EPDM



SPECIFICATIONS

Female ports	¼" NPT (Inlet/Outlet)	Weight	± 1,3 kg ± 2.8 lbs	Inlet pressure	200/300 bar 2900/4350 psi
Valve seal	PCTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi
O-ring	PTFE	Temperature range	- 40°C to + 60°C - 40°F to + 140°F	Nominal Flow Cv	1,5/6/30/50/75 Nm ³ /h (N ₂) 0.2
Diaphragm	Hastelloy®	Gauges	Low pressure (¼ NPT)	Oxygen use	OK with brass

FLOW CURVES



PRODUCT CONFIGURATOR

	Body Material	Inlet Pressure	Port Configuration	Outlet pressure	Inlet Connection	Outlet Connection	Gauges	Gas Type
SC	L	291	R	10	N	N	1	N2
	Chrome plated brass	L 200 bar 2900 psi	Right inlet	R 1,5 bar 21.75 psi	¼ NPT	N ¼ NPT	Without	0
		L 300 bar 4350 psi	Left inlet	L 4 bar 58 psi	Compression tube fitting UMS10	10 Compression tube fitting UMS10	With	1
				10 bar 145 psi	Compression tube fitting UMS12	12 Compression tube fitting UMS12		
				16 bar 232 psi	Compression tube fitting UMS1¾"	¾" Compression tube fitting UMS1¾"		
				35 bar 508 psi	Compression tube fitting UMS1½"	½" Compression tube fitting UMS1½"		

SERIES S 220 | SINGLE STAGE HP REGULATOR

- Diaphragm single stage
- Purity up to 6.0
- Inlet pressure:
200 bar (2900 psi)
- Outlet pressure:
3/15/25/50 bar
44/218/360/725 psi

- ★ 1 Inlet / 1 outlet
- ★ Rear thread for panel mounting
- ★ O₂ application compatible (with inlet pressure max 30 bar)
- ★ Inlet/outlet pressure gauges

Special requirements on request

To be connected with cylinder connectors



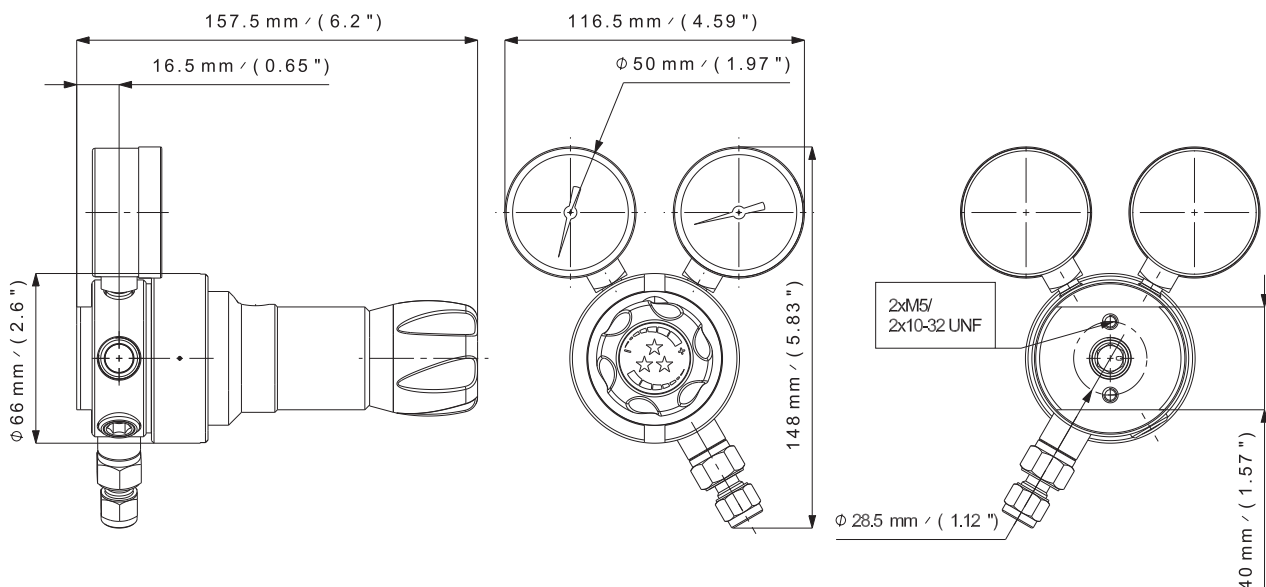
Refer to page 90

APPLICATIONS

- Designed for cylinder regulator applications.
- Ideally suited for corrosive gases in ultra high purity applications and for fundamental research laboratories.
- Suitable for corrosive liquid gases.

KEY FEATURES

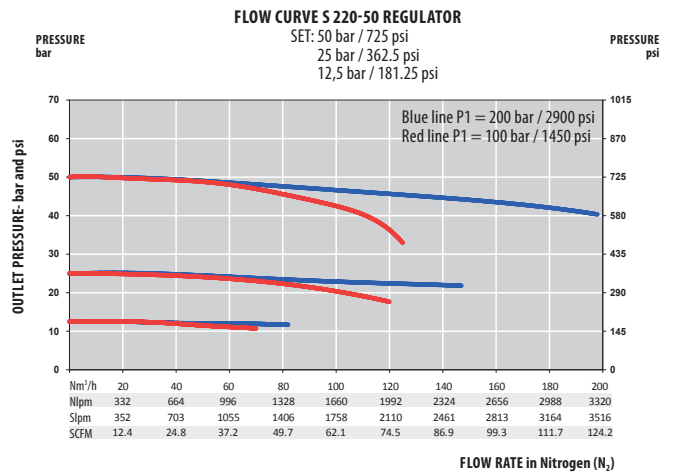
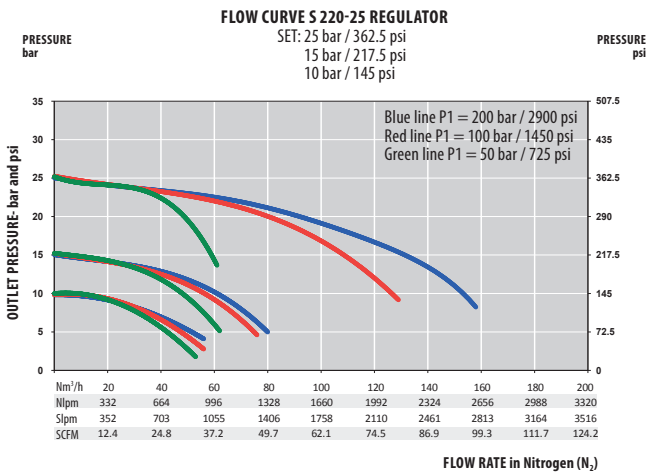
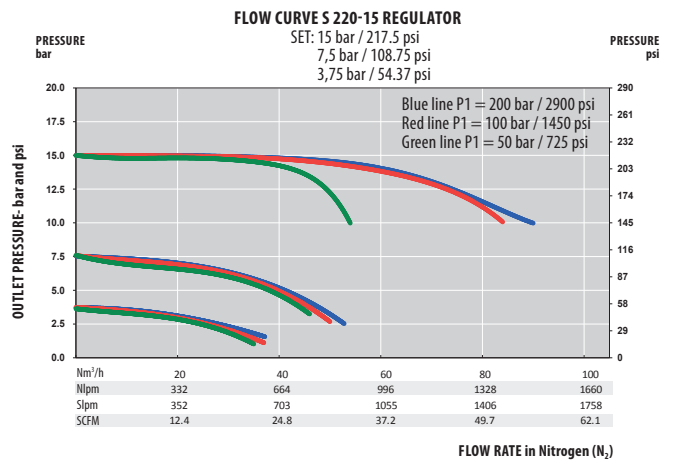
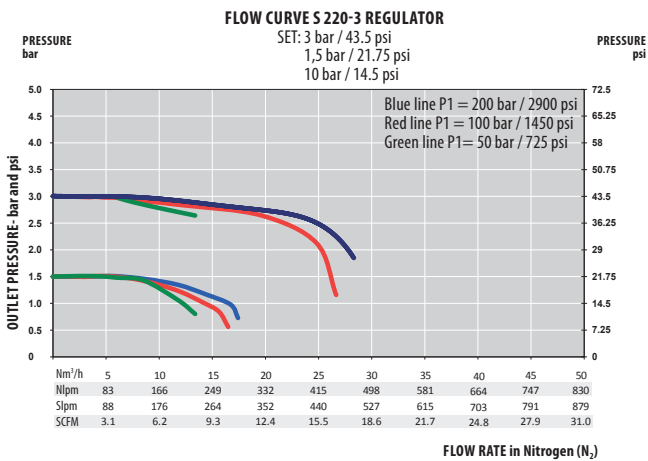
- No contamination risk due to its threadless and springless design.
- Low dead volume, which guarantees a good purge of the regulator.
- Ergonomic handwheel for exceptional control.
- Panel mounting possible due the rear threads.
- Can also be equipped with a shut off or needle valve at the outlet.



SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G 3/8 (outlet) or 1/4 NPT (inlet/outlet)	Weight	± 2,0 kg ± 4.4 lbs	Inlet pressure	200 bar 2900 psi
Seat seal	PCTFE	Leak rate	3.10 ⁻⁹ mbar ℓ/s He	Outlet pressure	3/15/25/50 bar 44/218/360/725 psi
O-ring	FPM - Standard EPDM NBR	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	5/25/50/50 Nm ³ /h (N ₂)
Diaphragm	Hastelloy®	Gauges	High and low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	OK with inlet pressure ≤ 30 bar max

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		Outlet Pressure	End Connections	O-ring Materials (relief valve)	Gauges	Ports Configuration					
S	I	220	N	FPM	1	A					
	Stainless steel	I	3 bar 44 psi	3	16 x 1.336 - G 3/8	16	FPM - Standard	Without	0	Standard	A
			15 bar 218 psi	15	1/4 NPT - 1/4 NPT	N	EPDM	With	1	Reverse Inlet/outlet*	R
			25 bar 360 psi	25			NBR				
			50 bar 725 psi	50							

*Only available for NPT version

SERIES S 225 | SINGLE STAGE HP REGULATOR

- Diaphragm single stage
- Purity up to 6.0
- Inlet pressure:
200 bar (2900 psi)
- Outlet pressure:
3/8/16/35/50 bar
44/116/232/508/725 psi

- ★ 1 inlet / 1 outlet
- ★ Rear inlet (standard version)
- ★ Rear thread for panel mounting
- ★ O₂ application compatible up to 16 bar/232 psi
- ★ Inlet/outlet gauge
- ★ 1 relief valve

Special requirements on request

APPLICATIONS

- Designed for cylinder regulator applications.
- Ideally suited for pure, inert and mildly corrosive gas applications such as analytical instrumentation.
- Also used to create a controlled atmosphere in laboratories.

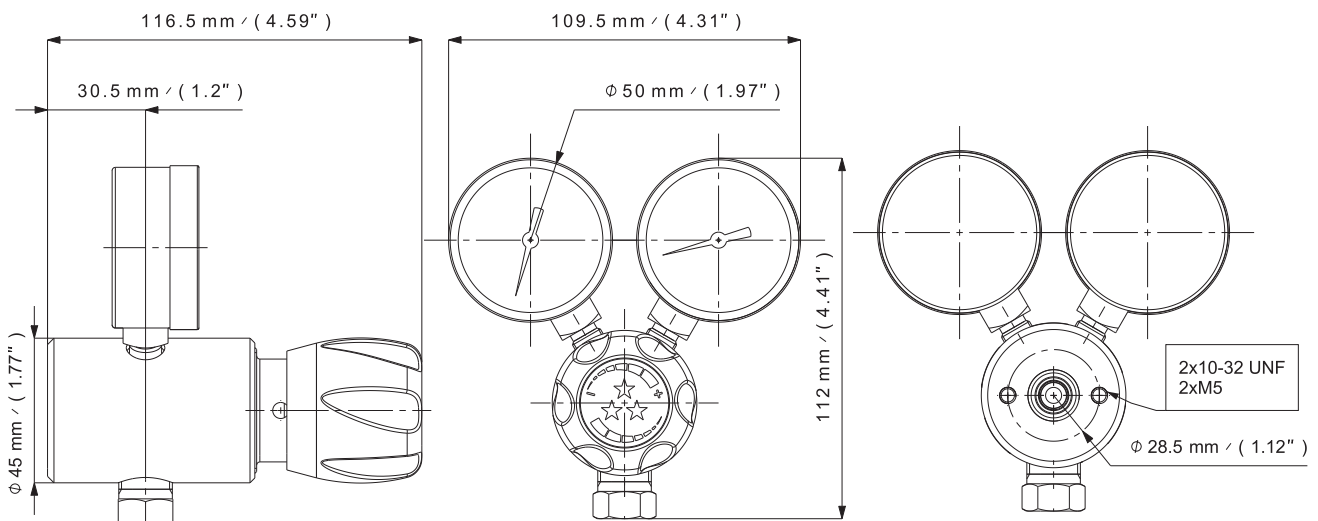
KEY FEATURES

- Compact design suitable for multiple applications.
- Accurate pressure control for reliable service.
- Ergonomic handwheel for exceptional control.
- The Series 225 exists also with a side inlet ("EL" version).
- Wall mounting possible due to rear threads.
- Could be also equipped with a needle or shut off valve at the outlet.
- Fixed outlet pressure version available.

To be connected with cylinder connectors



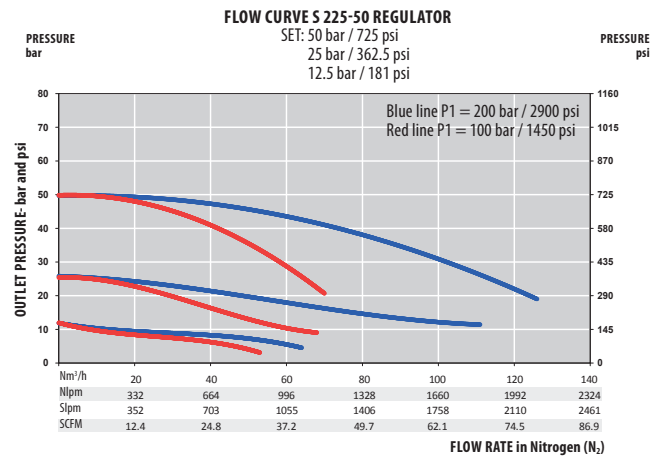
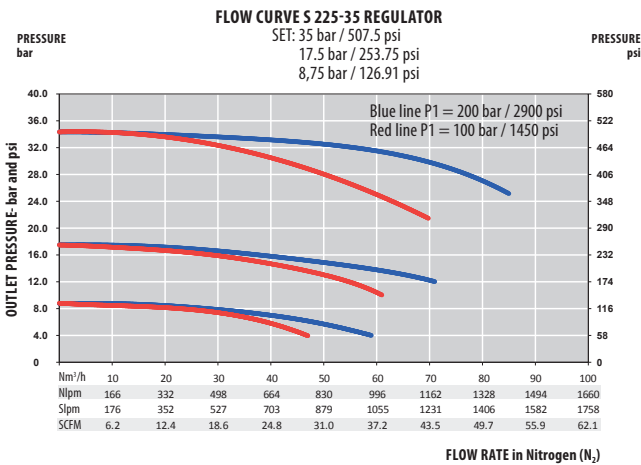
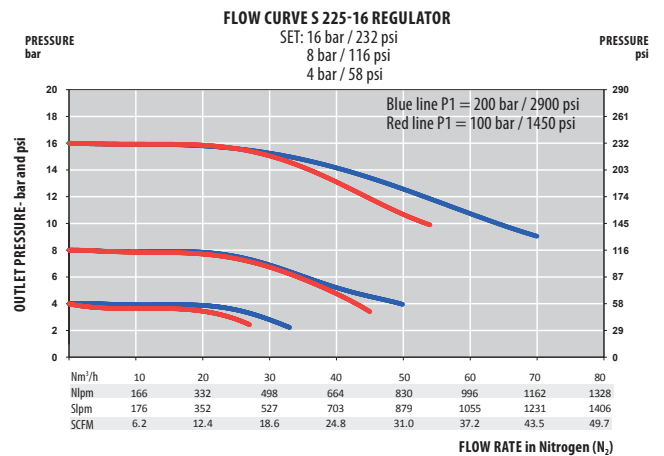
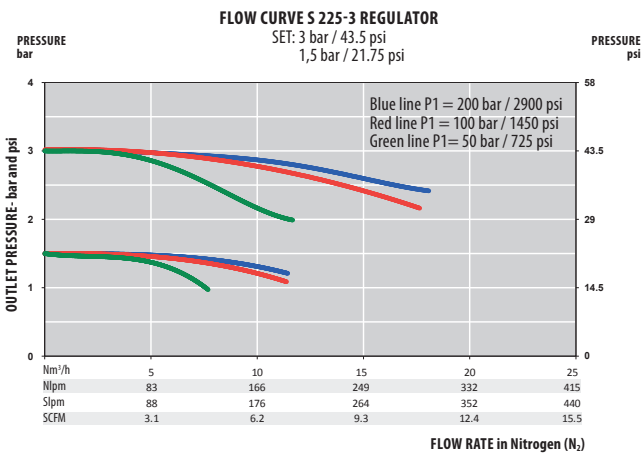
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SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G 3/8 (outlet) or 1/4 NPT (inlet/outlet)	Weight	± 1,0 kg brass ± 2.2 lbs	Inlet pressure	200 bar 2900 psi
Seat seal	PCTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	3/8/16/35/50 bar 44/116/232/508/725 psi
O-ring	EPDM - Standard NBR FPM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	5/15/25/25/25 Nm ³ /h (N ₂)
Diaphragm	AISI 304 (3/8/16 version) Hastelloy® (35/50 version)	Gauges	High and low pressure (M10 x 1)	Oxygen use	OK for brass and stainless steel only for outlet pressure: 3/8/16 bar

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		Outlet Pressure	End Connections	O-ring Material	Gauges	Handwheel	Ports Configuration					
S	L	225	16	N	1	H	A					
	Chrome plated brass	3 bar 44 psi	3	16 x 1.336 - G 3/8	16	EPDM - Standard	Without	0	With (standard)	H	Rear inlet (standard)	A
	Stainless steel	8 bar 116 psi	8	1/4 NPT - G 3/8	N	NBR	With	1	Without (fixed outlet pressure)	FX		
		16 bar 232 psi	16			FPM						
		35 bar 508 psi	35									
		50 bar 725 psi	50									

SERIES S 250 | SINGLE STAGE HP REGULATOR

- Piston single stage
- Purity up to 6.0
- Inlet pressure: 300 bar (4350 psi)
- Outlet pressure: 60 bar (870 psi)

- ★ 1 inlet / 1 outlet
- ★ Rear thread for panel mounting
- ★ O₂ application compatible with brass version only
- ★ Inlet/outlet pressure gauges

Special requirements on request

APPLICATIONS

- Designed for cylinder regulator applications.
- Ideally suited to put vessels under pressure, such as for leak detection and purge of pipe work.

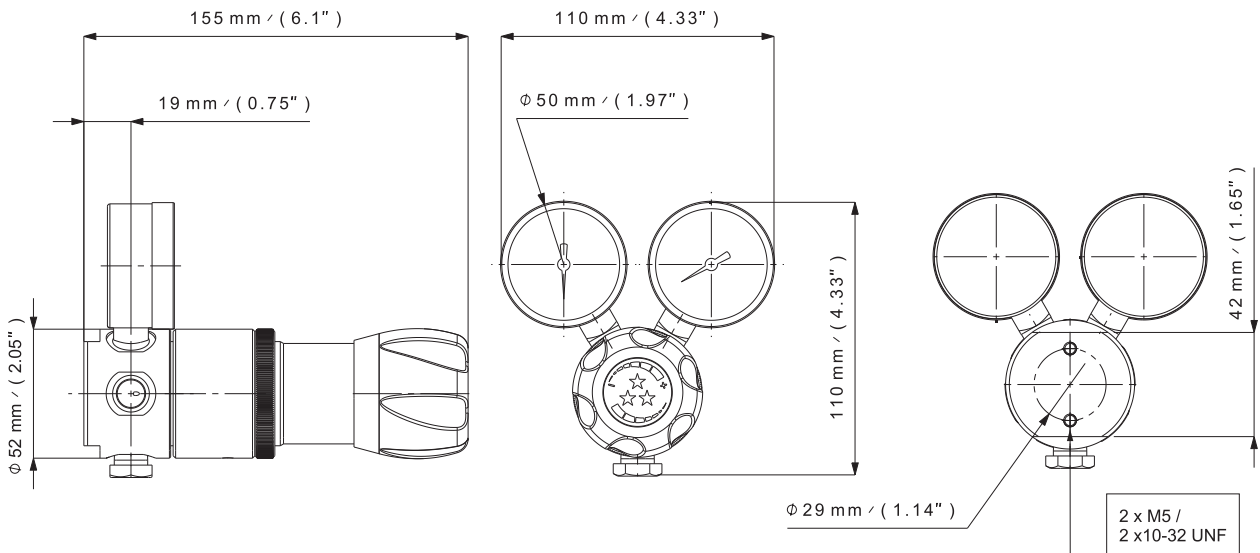
KEY FEATURES

- Decompression of the downstream regulation system by turning the hand wheel counter-clockwise (SL 250).
- Accurate pressure control for reliable service.
- The SLS 250 version has a connection available so that a relief valve can be installed.
- Panel mounting possible due the rear threads.
- Can also be equipped with a needle or shut off valve at the outlet.

To be connected with cylinder connectors



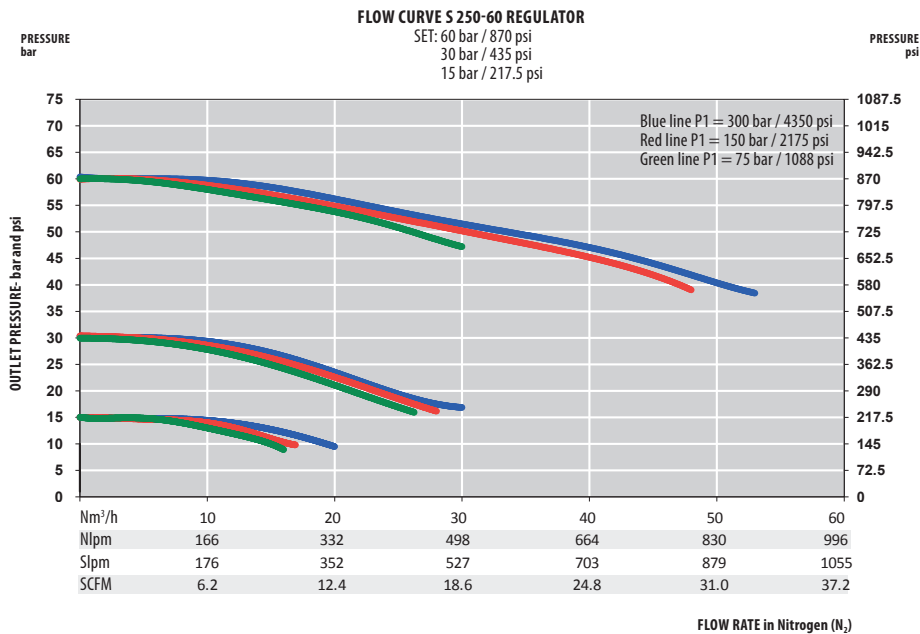
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SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G 3/8 (outlet) or 1/4 NPT (inlet/outlet)	Weight	± 1,6 kg ± 3.5 lbs	Inlet pressure	300 bar 4350 psi
Seat seal	PCTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	60 bar 870 psi
O-ring	NBR - Standard EPDM FPM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	10 Nm ³ /h (N ₂)
Piston	AISI 316L	Gauges	High and low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	Brass only

FLOW CURVES



PRODUCT CONFIGURATOR

	Body Material	Safety Relief Valve Configuration		End Connection	O-ring Material	Gauges	
S	L	-	250	N	NBR	1	
	Chrome plated brass	L With decompression system		16 x 1.336 - G 3/8	16 NBR - Standard	Without	0
	Stainless steel	I With a safety valve connection available		1/4 NPT - 1/4 NPT	N EPDM	With	1
					FPM		

SERIES S 400 | SINGLE STAGE HP REGULATOR

- Piston single stage
- Purity up to 6.0
- Inlet pressure:
300 bar (4350 psi)
- Outlet pressure:
200 bar (2900 psi)

- ★ 1 inlet / 1 outlet
- ★ Rear thread for panel mounting
- ★ O₂ application compatible with brass version only
- ★ Inlet/outlet pressure gauges

Special requirements on request

APPLICATIONS

- Designed for cylinder regulator applications.
- Ideally suited to put vessels under pressure, leak detection and purge of pipe work.

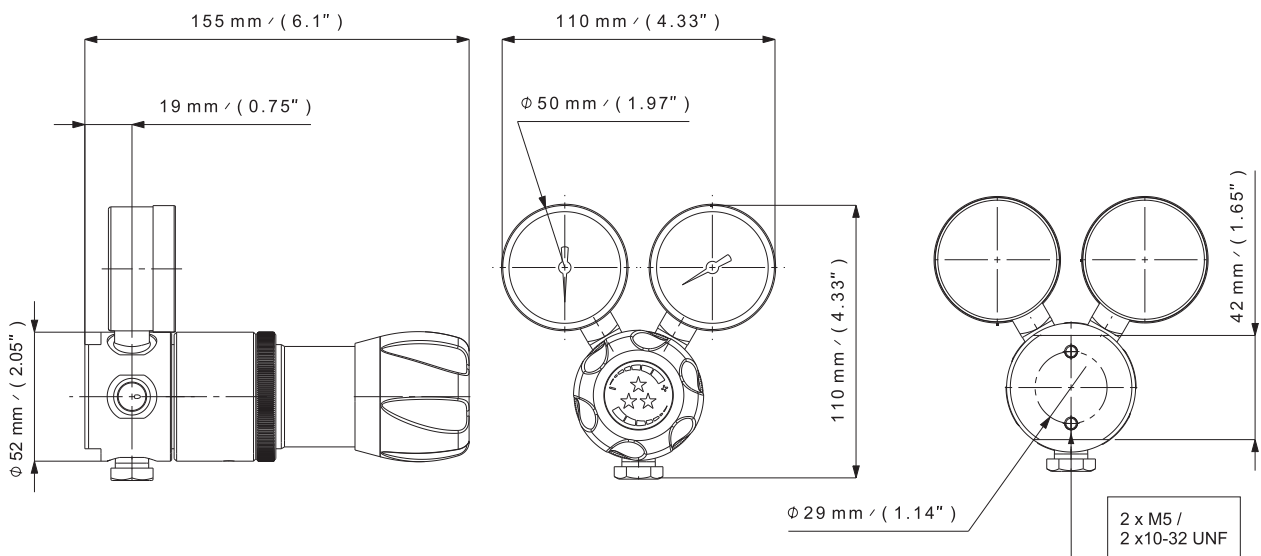
KEY FEATURES

- Similar to the series S250 but with a higher possible outlet pressure (200 bar)
- Decompression of the downstream regulation system possible by turning the hand wheel counter-clockwise (SL 400).
- Accurate pressure control for reliable service.
- The SLS 400 version has a connection available so that a relief valve can be installed.
- Panel mounting possible due the rear threads.
- Can also be equipped with a shut off valve at the outlet.

To be connected with cylinder connectors



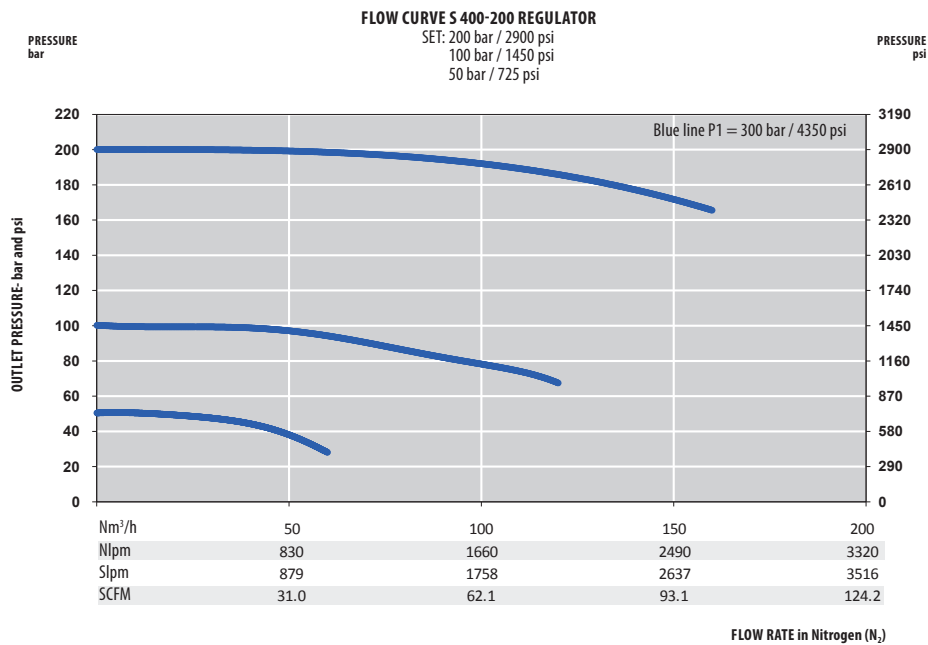
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SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G 3/8 (outlet) or 1/4 NPT (inlet/outlet)	Weight	± 1,6 kg ± 3.5 lbs	Inlet pressure	300 bar 4350 psi
Seat seal	PCTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	200 bar 2900 psi
O-ring	NBR - Standard EPDM FPM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	30 Nm ³ /h (N ₂)
Piston	AISI 316L	Gauges	High and low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	Brass only

FLOW CURVES



PRODUCT CONFIGURATOR

	Body Material	Safety Relief Valve Configuration		End Connections	O-ring Material	Gauges
S	L	-	400	N	NBR	1
	Chrome plated brass	L With decompression system		16 x 1.336 - G 3/8 16	NBR - Standard	Without 0
	Stainless steel	I With a safety valve connection available		1/4 NPT - 1/4 NPT N	EPDM	With 1
					FPM	

SERIES S 800 | SINGLE STAGE HP REGULATOR

- Diaphragm single stage
- Balanced-Valve Technology
- Purity up to 6.0
- Inlet pressure: 300 bar (4350 psi)
- Outlet pressure: 10/16/25/50 bar 145/232/363/725 psi

- ★ Reduce ownership cost
- ★ 1 inlet / 1 outlet
- ★ Rear thread for front panel mounting
- ★ O₂ application compatible, up to 200 bar inlet pressure for stainless steel version
- ★ Inlet/outlet pressure gauges
- ★ 1 relief valve

Special requirements must be observed to be connected with cylinder connectors



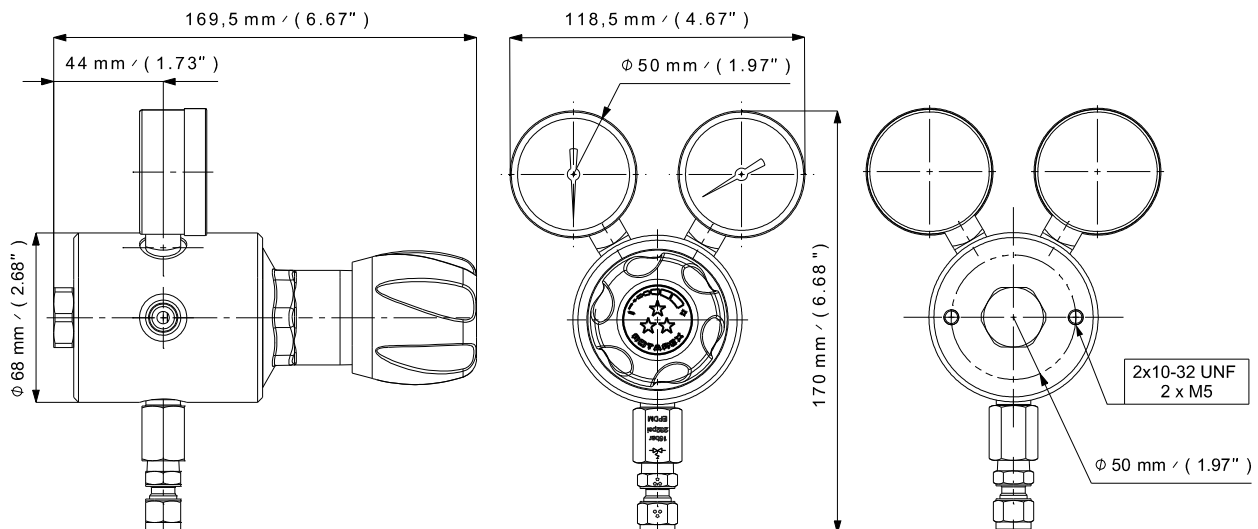
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APPLICATIONS

- Designed for application as a cylinder regulator.
- Ideally suited for high purity gases and high-pressure applications requiring high flow and precise outlet pressure, such as for laser applications.
- Used also in nuclear research department where the precision of the outlet pressure and high flow are essential.

KEY FEATURES

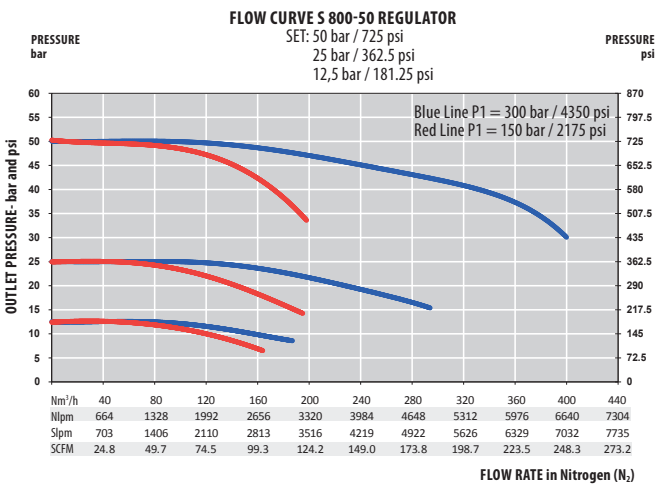
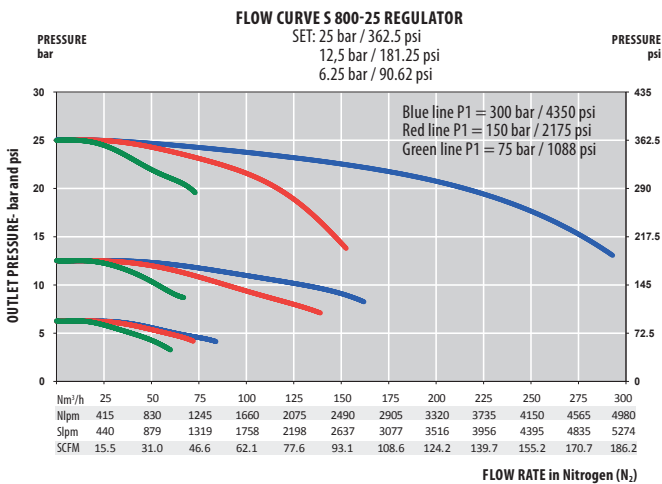
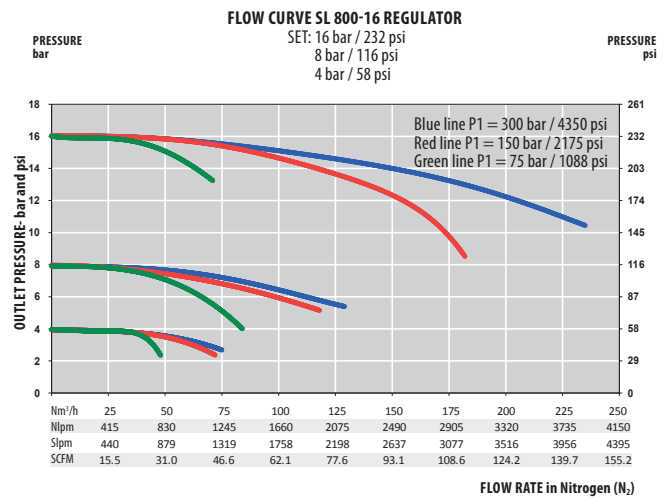
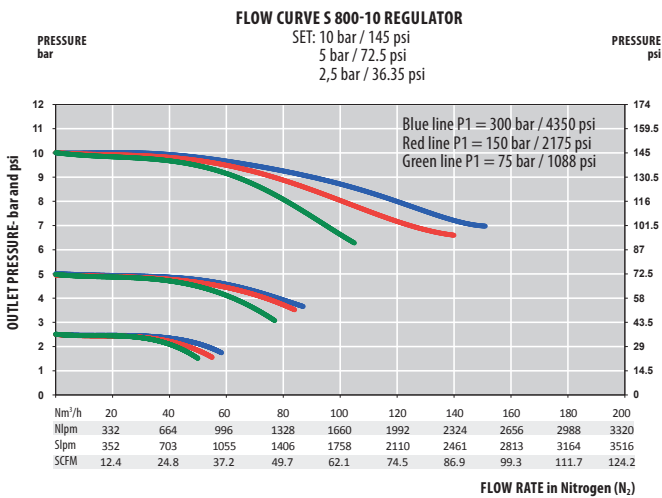
- Best-in-class pressure control with Balanced-Valve Technology: the effect of inlet pressure fluctuations on outlet pressure are minimized. The BV-technology enables the delivery of a very stable outlet pressure and flow even with high flow.
- BV Technology also increases the useful lifetime of the regulator and reduces ownership cost.



SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G 3/8 (outlet) or 1/4 NPT (inlet/outlet)	Weight	± 2,4 kg ± 5.3 lbs	Inlet pressure	300 bar 4350 psi
Seat seal	PCTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	10/16/25/50 bar 145/232/363/725 psi
O-ring	EPDM - Standard NBR FPM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	50/50/50/100 Nm ³ /h (N ₂)
Diaphragm	AISI 304 Hastelloy® (25/50 bar)	Gauges	High and low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	Brass version: OK Stainless steel version: inlet pressure ≤ 200 bar

FLOW CURVES



PRODUCT CONFIGURATOR

S	Body Material		800	Outlet Pressure		End Connections		O-ring Material		Gauges	
	L	LB		16	10	N	16	EPDM	Without	0	
	Raw brass	LB		10 bar 145 psi	10	16 x 1.336 - G 3/8	16	EPDM - Standard	Without	0	
	Chrome plated brass	L		16 bar 232 psi	16	1/4 NPT - 1/4 NPT	N	NBR	With	1	
	Stainless steel	I		25 bar 362.5 psi	25			FPM			
				50 bar 725 psi	50						

SERIES GD 100 | SINGLE STAGE HP HIGH FLOW REGULATOR

- Diaphragm single stage
- Purity up to 5.5
- Inlet pressure:
200 bar (2900 psi)
- Outlet pressure:
10 bar (145psi)
- Acetylene version (AD - C₂H₂):
P1= 25 bar (362.5 psi)
P2=1,2 bar (17.4 psi)

- ★ High flow regulator
- ★ 1 inlet / 1 outlet
- ★ O₂ application compatible
- ★ Inlet/outlet pressure gauges
- ★ Acetylene version available (AD)

Special requirements on request

To be connected with cylinder connectors



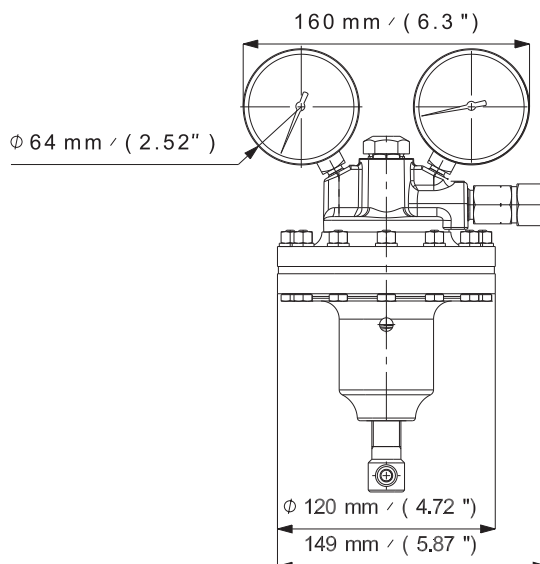
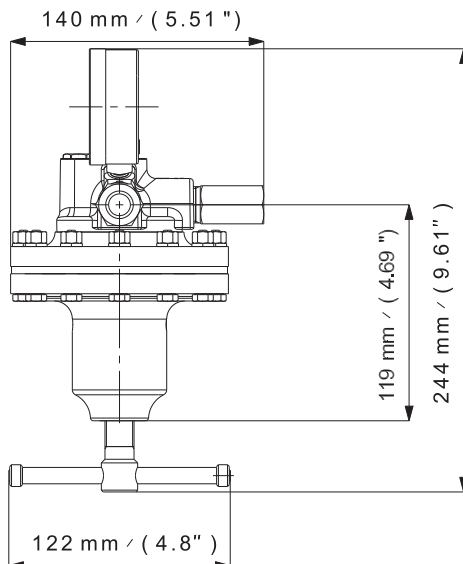
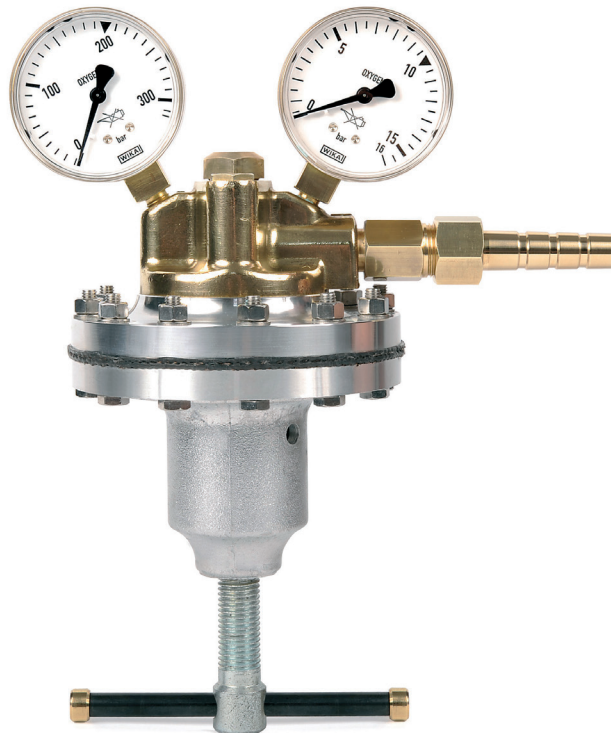
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APPLICATIONS

- Designed for cylinder regulator applications.
- Ideally used in industrial applications requiring high flow - particularly to supply gas to welding machines.

KEY FEATURES

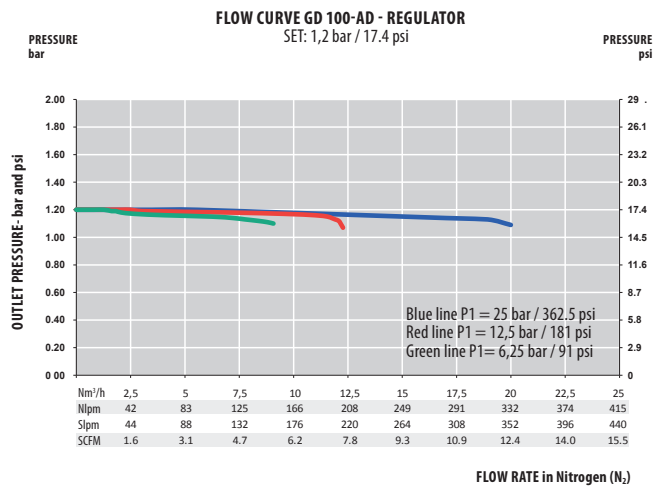
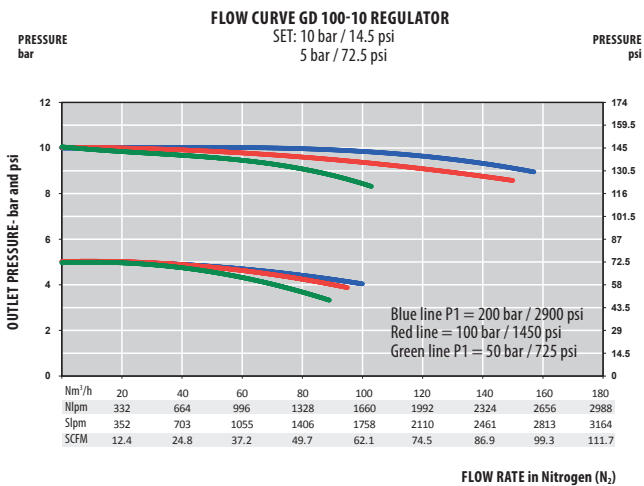
- Exceptionally durable
- Acetylene version available:
P1=25 bar / P2=1,2 bar / Q=10 Nm³/h.
- If used with acetylene, this product must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream.
- Medical CE version available (see Meditec catalogue).



SPECIFICATIONS

Ports	inlet: 16 x 1.336 (Female) outlet: M20 x 1,5 (Male)	Weight	± 4,6 kg ± 10.1 lbs	Inlet pressure	200 bar (2900 psi) AD: 25 bar / 362.5 psi
Seat seal	PA 6.6	Leak rate	10 ⁻³ mbar ℓ/s He	Outlet pressure	10 bar / 145 psi AD: 1,2 bar / 17 psi
Diaphragm	Butyl	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	100 Nm ³ /h (N ₂) AD: 10 Nm ³ /h
Body Material	Raw brass	Gauges	High and low pressure (M10 x 1)	Oxygen use	OK

FLOW CURVES



PRODUCT CONFIGURATOR

GD	Type	Inlet Connection	Gauges	
	100	16	1	0
Standard version	100	16 x 1.336	16	Without
Acetylene version	100 AD			With
				1

SERIES TGD 250 | SINGLE STAGE HP HIGH FLOW REGULATOR

- Diaphragm single stage
- Purity up to 5.5
- Inlet pressure: 200 bar (2900 psi)
- Outlet pressure: 20 bar (290psi)

- ★ High flow regulator
- ★ 1 inlet / 1 outlet
- ★ O₂ application compatible
- ★ Inlet/outlet pressure gauges

Special requirements on request

APPLICATIONS

- Ideally suited for distribution of gases in industrial applications requiring very high flow like feeding of welding machines

KEY FEATURES

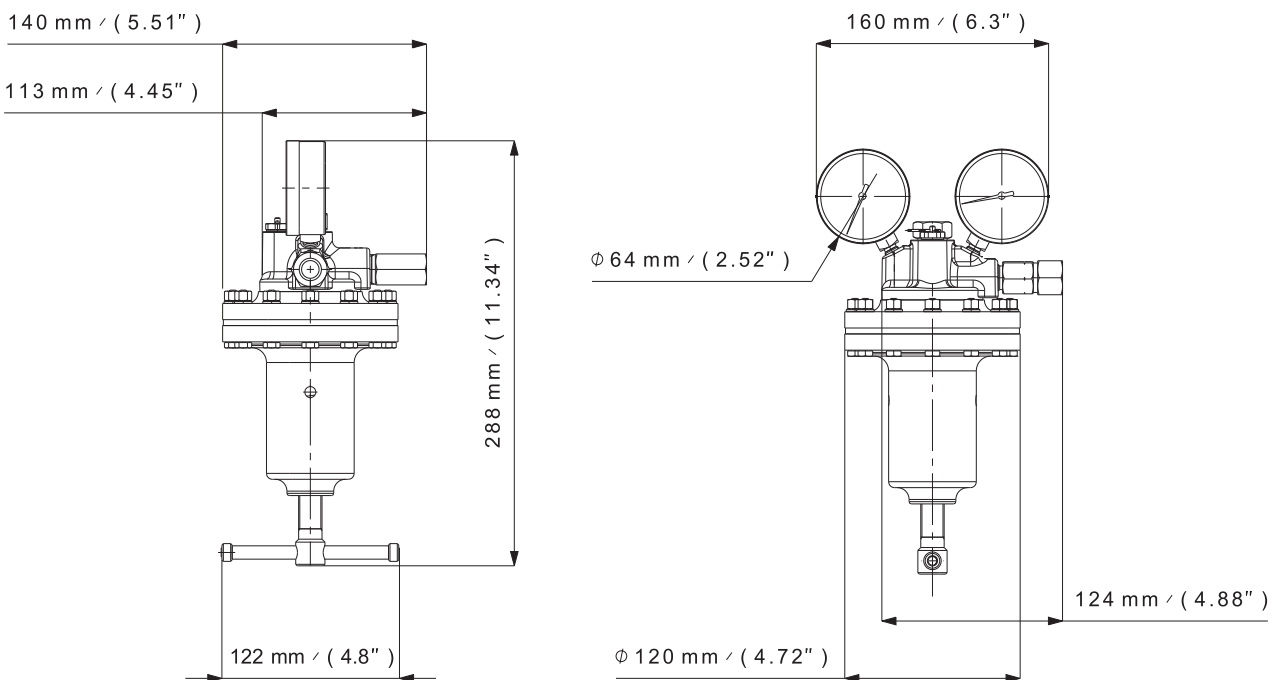
- Exceptionally durable
- Medical CE version available (see Meditec catalogue).



To be connected with cylinder connectors



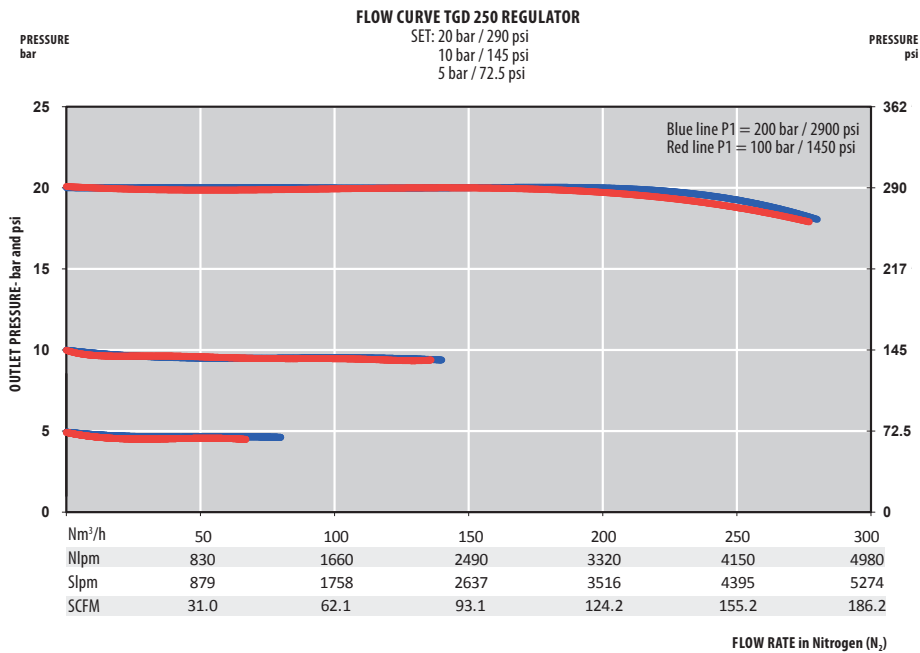
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SPECIFICATIONS

Ports	inlet: 16 x 1.336 (Female) outlet: M20 x 1,5 (Male)	Weight	± 4,6 kg ± 10.1 lbs	Inlet pressure	200 bar 2900 psi
Seat seal	PCTFE	Leak rate	10 ⁻³ mbar ℓ/s He	Outlet pressure	20 bar 290 psi
Diaphragm	Butyl	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	250 Nm ³ /h (N ₂)
Body Material	Raw brass	Gauges	High and low pressure (M10 x 1)	Oxygen use	OK

FLOW CURVES



PRODUCT CONFIGURATOR

TGD	250	Inlet Connection		Gauges	
		16	1		
		16 x 1.336	16	Without	0
				With	1

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

- Diaphragm Dual Stage
- Purity up to 6.0
- Inlet Pressure:
200 bar (2900 psi)
300 bar (4350 psi)
- Outlet Pressure:
1,5/4/10/16/35 bar
21.75/58/145/232/508 psi

- ★ Compact and lightweight design
- ★ 1 Inlet / 1 Outlet
- ★ O₂ application compatible (see technical data)
- ★ Inlet / Outlet pressure gauge
- ★ 1 relief valve

Special requirements on request

To be connected with cylinder connectors



Refer to page 90

APPLICATIONS

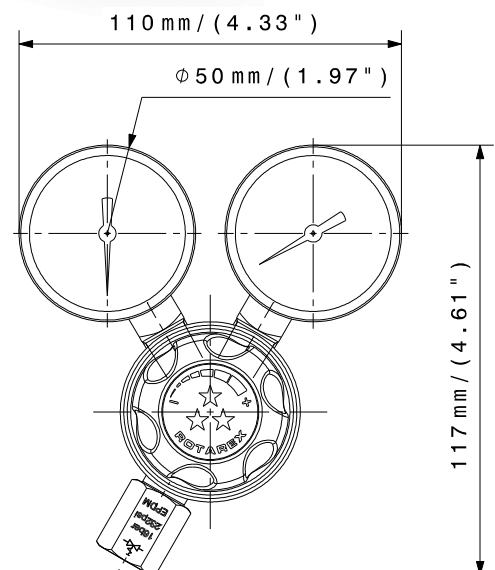
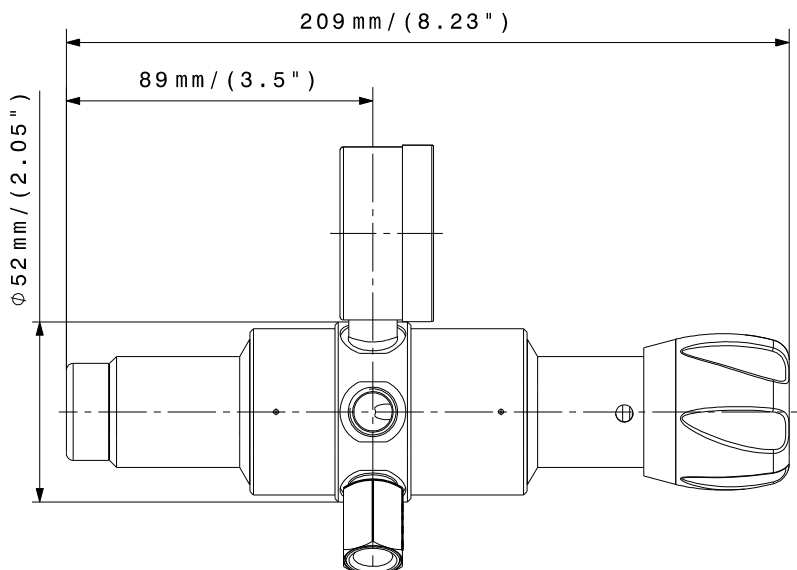
This regulator is ideally suited as cylinder regulator for pure, inert and corrosive gas applications such as analytical instrumentation.

- Gas Chromatograph
- Carrying gas
- Calibration gas

GENERAL

- This dual stage regulator is based on the Cartridge seat Technology.
- Compact, ergonomic and lightweight design makes this regulator suitable for many applications.
- Accurate pressure control for reliable service.
- Handwheel in compliance with ATEX regulation and easy to clean
- Could be equipped with a shut off valve
- Relief valve seat seals material*
 - Brass Version: EPDM
 - Stainless Steel: FPM

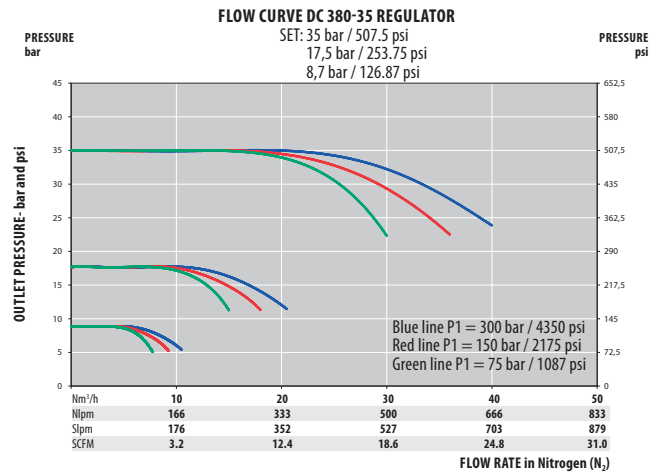
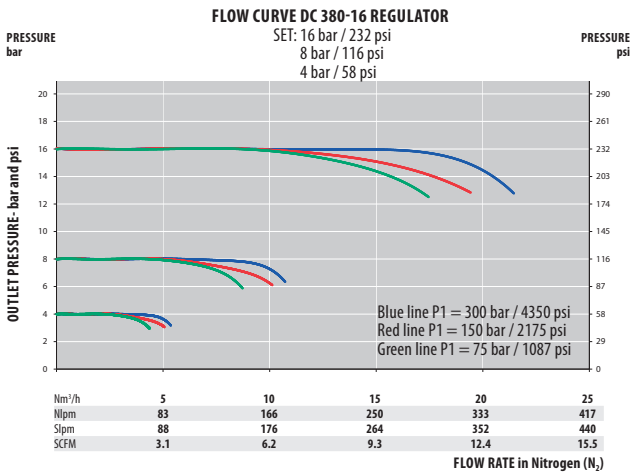
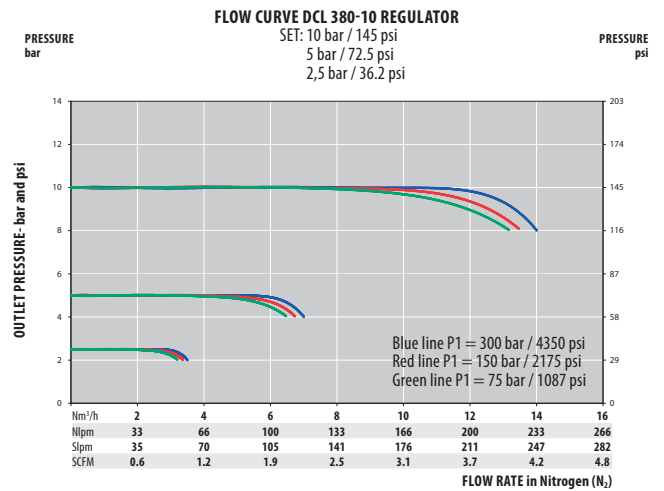
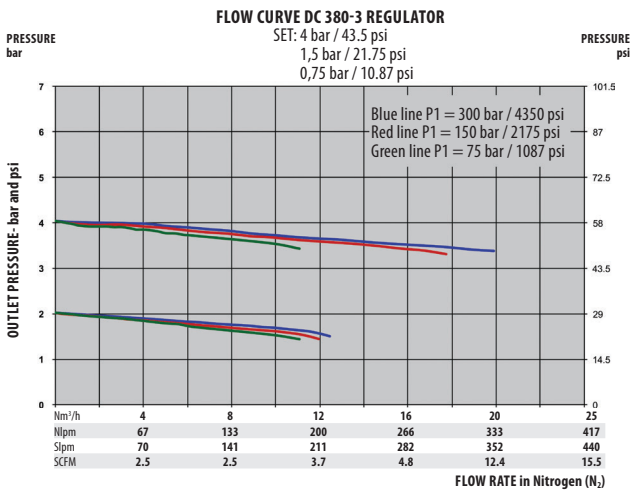
*Other on demand



SPECIFICATIONS

Female ports	¼" NPT (Inlet/Outlet)	Weight	± 1,5 kg ± 3.3 lbs	Inlet pressure	200/300 bar 2900/4350 psi
Valve seal	PCTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi
O-ring	PTFE	Temperature range	- 40°C to + 60°C - 40°F to + 140°F	Nominal Flow Cv	1/2/10/20/30 Nm ³ /h (N ₂) 0.06
Diaphragm	Hastelloy®	Gauges	High and low pressure (¼ NPT)	Oxygen use	OK with brass and stainless steel

FLOW CURVES



PRODUCT CONFIGURATOR

	Body Material	Inlet Pressure	Port Configuration	Outlet pressure	Inlet Connection	Outlet Connection	Gauges	Gas Type
DC	L	280	R	10	N	N	1	N2
	Chrome plated brass	L 200 bar / 2900 psi	280 Right inlet	R 1,5 bar / 21.75 psi	1,5 ¼ NPT	N ¼ NPT	N Without	0
	Stainless steel	I 300 bar / 4350 psi	380 Left inlet	L 4 bar / 58 psi	4 Compression tube fitting UMSI6	6 Compression tube fitting UMSI6	6 With	1
				10 bar / 145 psi	10 Compression tube fitting UMSI8	8 Compression tube fitting UMSI8		
				16 bar / 232 psi	16 Compression tube fitting UMSI½"	½" Compression tube fitting UMSI½"		
				35 bar / 508 psi	35 Compression tube fitting UMSI¼"	¼" Compression tube fitting UMSI¼"		

SERIES DC 290 - DC 390 | DUAL STAGE HP CARTRIDGE REGULATOR

- Diaphragm Dual Stage
- Purity up to 6.0
- Inlet Pressure:
200 bar (2900 psi)
or 300 bar (4350 psi)
- Outlet Pressure:
1,5/4/10/16 bar
21.75/58/150/200psi

- ★ High flow regulator
- ★ 1 Inlet / 1 Outlet
- ★ O₂ application compatible
(see technical data)
- ★ Inlet / Outlet pressure gauge
- ★ 1 relief valve

Special requirements on request

To be connected with cylinder connectors



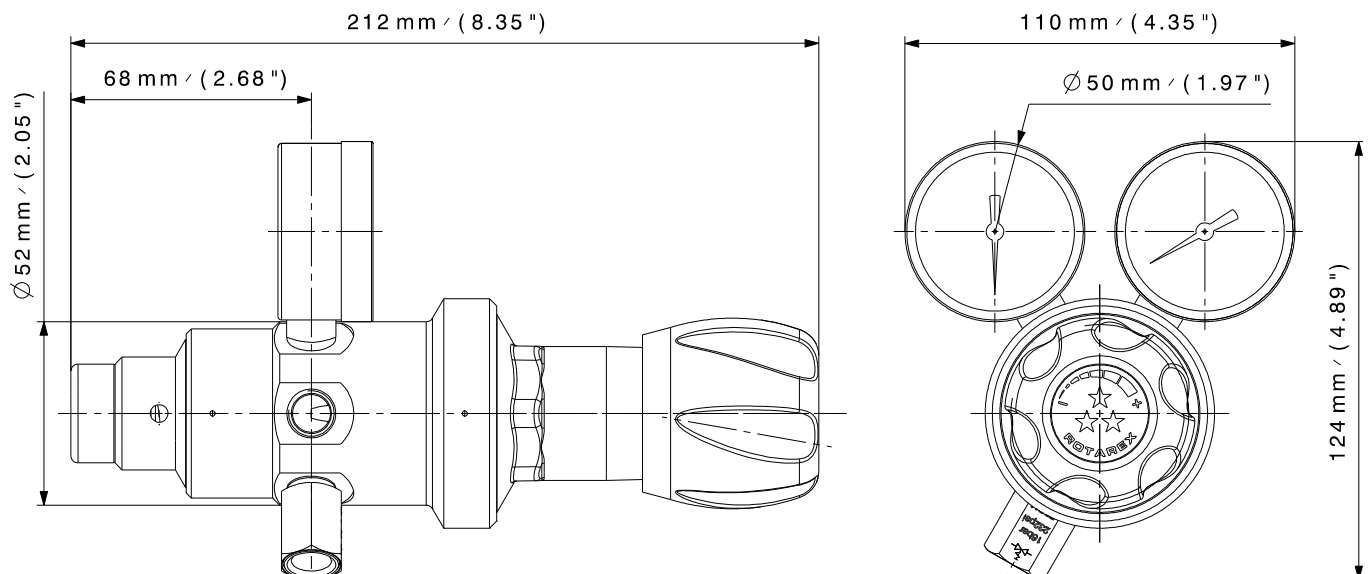
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APPLICATIONS

- This regulator is ideally suited as cylinder regulator for pure, inert and corrosive gas applications such as analytical instrumentation
- Analytical instrumentations
- Fuel gas supply (Fuel Cell)
- Calibration gas

GENERAL

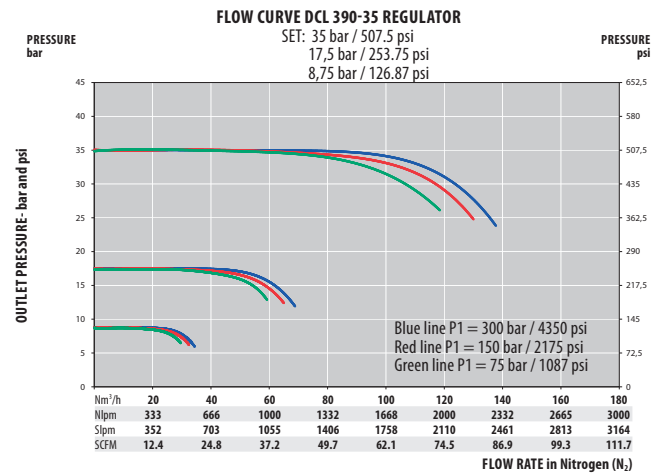
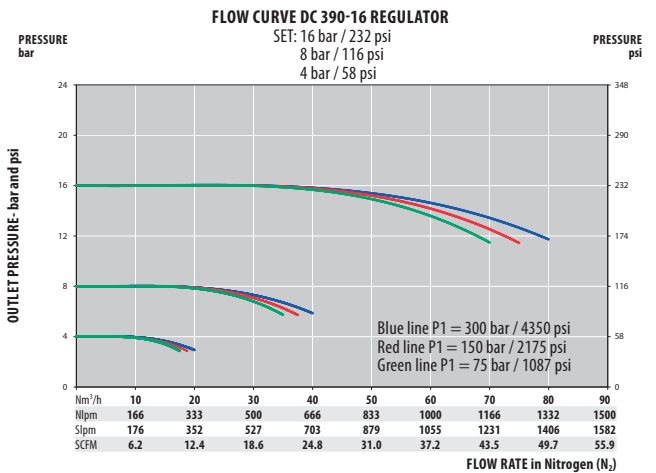
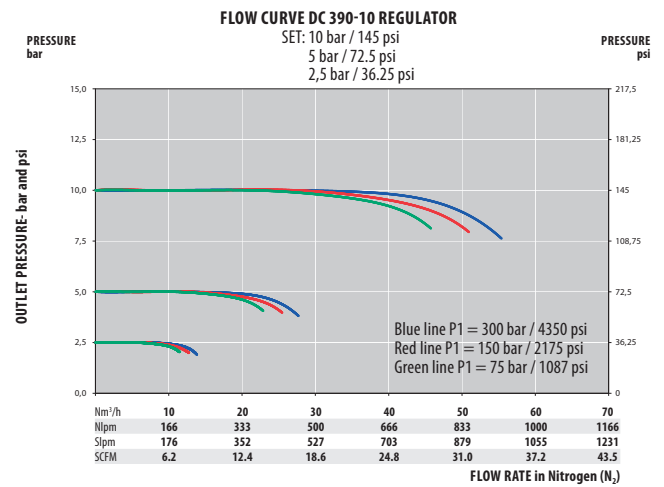
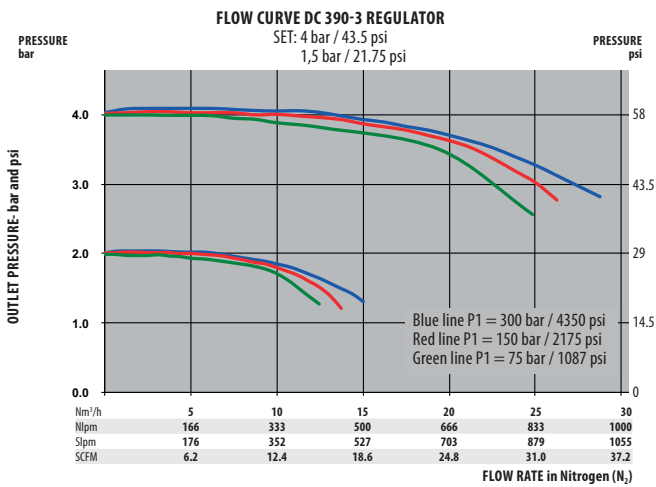
- This dual stage regulator is based on the Cartridge seat Technology.
- This regulator is an accurate pressure control for reliable service.
- Ideally designed for cylinder regulator applications.
- Regulator designed for high flow applications
- Compact and lightweight designed high pressure regulator.
- Could be equipped with a shut off valve
- Relief valve seat seals material:
 - Brass Version: EPDM



SPECIFICATIONS

Female ports	¼" NPT (Inlet/Outlet)	Weight	± 2,0 kg ± 4.4 lbs	Inlet pressure	200/300 bar 2900/4350 psi
Valve seal	PCTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi
O-ring	PTFE	Temperature range	- 40°C to + 60°C - 40°F to + 140°F	Nominal Flow Cv	1,5/6/30/50/75 Nm ³ /h (N ₂) 0.15
Diaphragm	Hastelloy®	Gauges	High and low pressure (¼" NPT)	Oxygen use	OK with brass

FLOW CURVES



PRODUCT CONFIGURATOR

	Body Material	Inlet Pressure	Port Configuration	Outlet pressure	Inlet Connection	Outlet Connection	Gauges	Gas Type
DC	L	290	R	10	N	N	1	N2
	Chrome plated brass	200 bar 2900 psi	Right inlet	1,5 bar 21.75 psi	¼ NPT	¼ NPT	Without	0
		300 bar 4350 psi	Left inlet	4 bar 58 psi	Compression tube fitting UMS110	Compression tube fitting UMS110	With	1
				10 bar 145 psi	Compression tube fitting UMS112	Compression tube fitting UMS112		
				16 bar 232 psi	Compression tube fitting UMS1¾"	Compression tube fitting UMS1¾"		
				35 bar 508 psi	Compression tube fitting UMS1½"	Compression tube fitting UMS1½"		

SERIES D 230 | DUAL STAGE HP REGULATOR

- Piston/bellow dual stage
- Purity up to 6.0
- Inlet pressure: 200 bar (2900 psi)
- Outlet pressure: 1/3/10 bar 14.5/44/145psi

- ★ Compact and light-weight design
- ★ 1 inlet / 2 outlets
- ★ O₂ application compatible (brass only)
- ★ Inlet/outlet pressure gauges
- ★ 1 relief valve

Special requirements on request

APPLICATIONS

- Designed for cylinder regulator applications.
- Ideally suited for pure, inert and mildly corrosive gas applications requiring a very stable outlet pressure together with a very sensitive set up of this outlet pressure.

KEY FEATURES

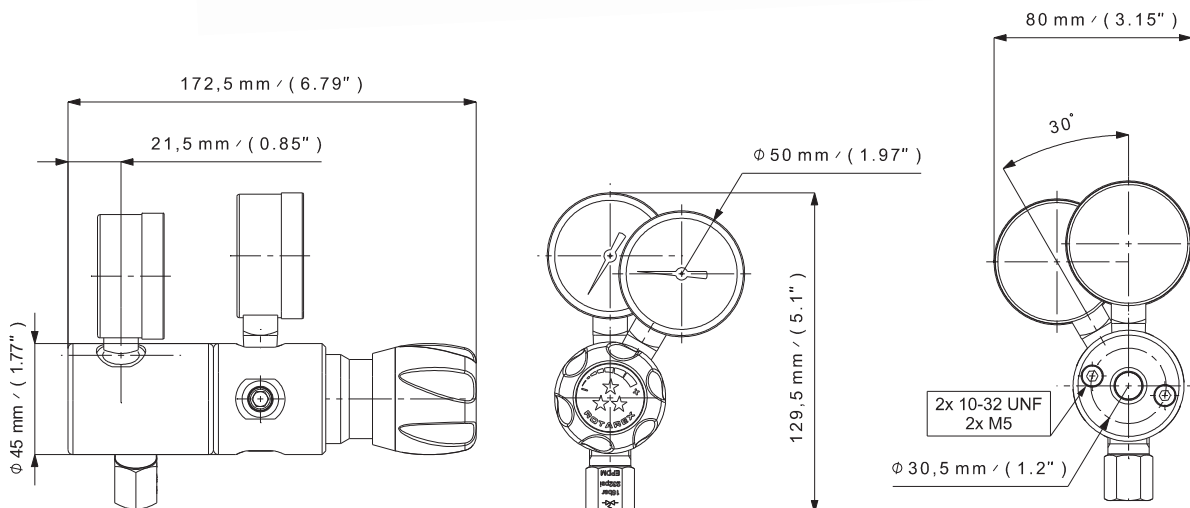
- The D 230 regulator is based on the S 20 proven bellow technology.
- Accurate pressure control for reliable service and guarantees a stable outlet pressure due to the combination of the piston and bellow technology.
- Compact and lightweight design.
- Fixed outlet pressure version available.



To be connected with cylinder connectors



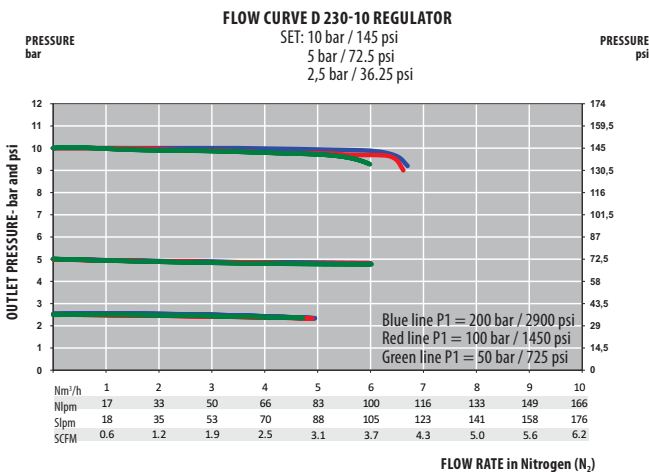
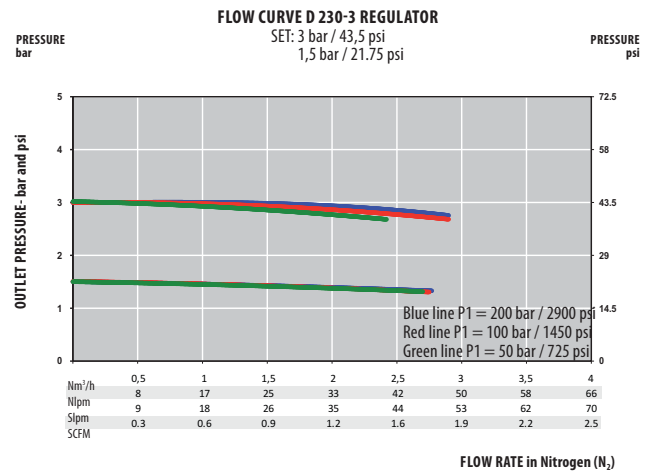
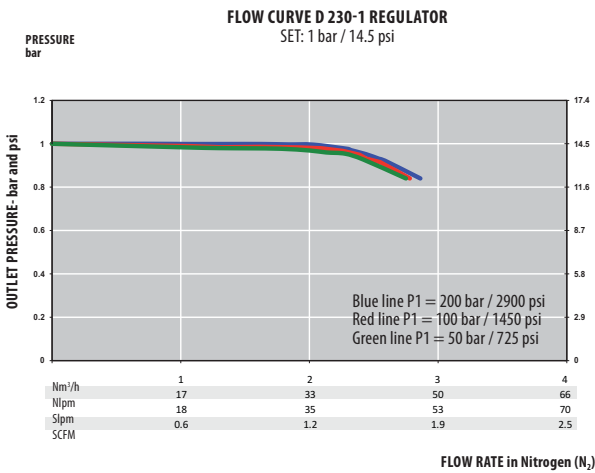
Refer to page 90



SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G 3/8 (outlet) or 1/4 NPT (inlet/outlet)	Weight	± 1,6 kg ± 3.5 lbs	Inlet pressure	200 bar 2900 psi
Seat seal	PTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1/3/10 bar 14.5/44/145 psi
O-ring	EPDM - Standard NBR FPM	Temperature range	- 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)	Gauges	High and low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	Brass only
Below	Bronze or AISI 316L (SS version)				

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		Outlet Pressure	End Connections	O-ring Material	Gauges	Handwheel				
D	L	230	10	N	1	H				
	Chrome plated brass	1 bar 14.5 psi	1	In: 16 x 1.336 Out: G 3/8	16	EPDM - Standard	Without	0	With - standard	H
	Stainless steel	3 bar 44 psi	3	1/4 NPT	N	NBR	With	1	Without (fixed outlet pressure)	FX
		10 bar 145 psi	10			FPM				

SERIES D 235 | DUAL STAGE HP REGULATOR

- Diaphragm/bellow dual stage
- Purity up to 6.0
- Inlet pressure: 300 bar (4350 psi)
- Outlet pressure: 1/3/10 bar (14.5/44/145 psi)

- ★ Compact and lightweight design
- ★ 1 inlet / 2 outlets
- ★ O₂ application compatible
- ★ Inlet/outlet pressure gauges
- ★ 1 relief valve

Special requirements on request

APPLICATIONS

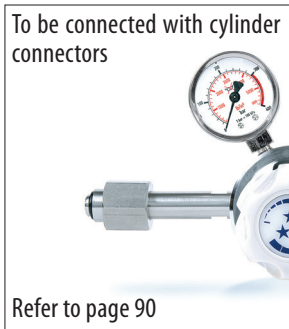
- Designed for cylinder regulator applications.
- Ideally suited for pure, inert and mildly corrosive gas applications requiring a very stable outlet pressure together with a very sensitive set up of this outlet pressure.

KEY FEATURES

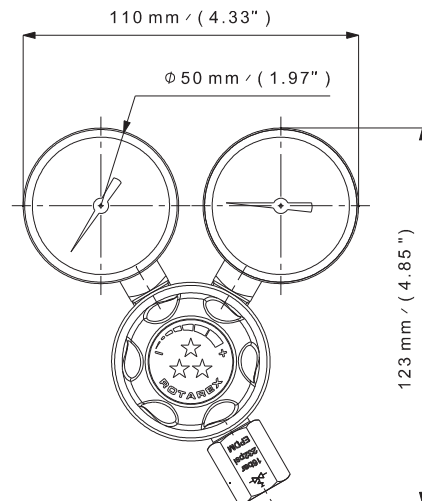
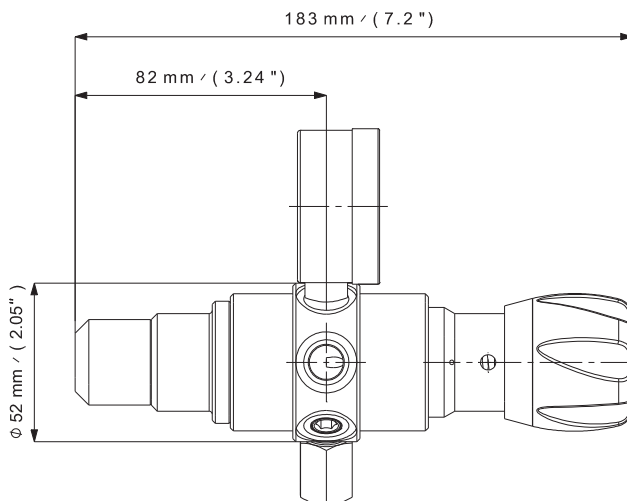
- The D 235 regulator is based on the S 20 proven bellow technology.
- Accurate pressure control for reliable service and guarantees a stable outlet pressure due to the combination of the diaphragm and bellow technology.
- Compact and lightweight design.
- Can also be equipped with a needle or shut off valve at the outlet.



Front view



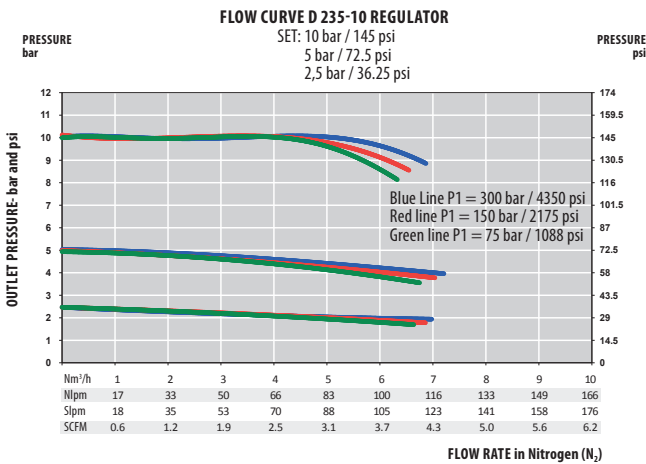
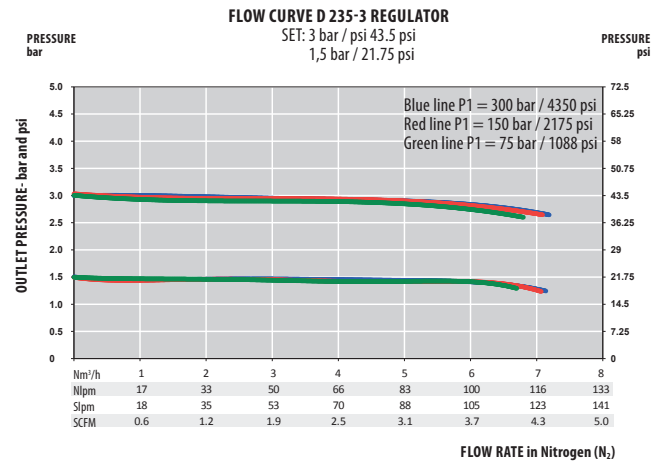
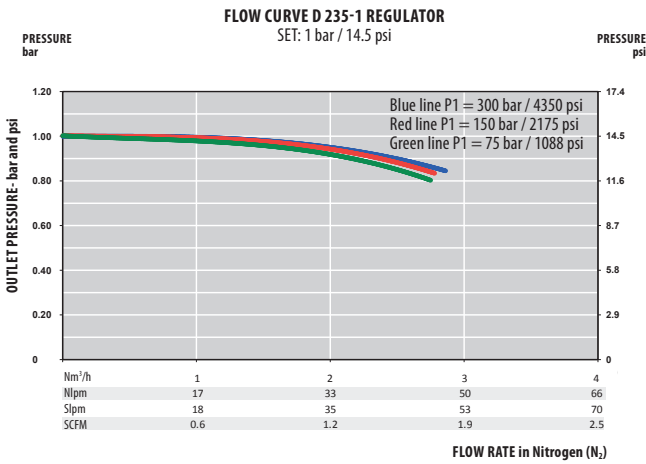
Refer to page 90



SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G 3/8 (outlet) or 1/4 NPT (inlet/outlet)	Weight	± 1,4 kg ± 3.0 lbs	Inlet pressure	300 bar 4350 psi
Seat seal	PTFE (1 st stage) EPDM (2 nd stage)	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1 / 3 / 10 bar 14.5/44/145 psi
O-ring	EPDM - Standard NBR FPM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	1/2/5,5 Nm ³ /h (N ₂)
Diaphragm	AISI 304	Gauges	High and low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	OK for brass and stainless steel
Bellow	Bronze (Brass version) AISI 316L (SS version)				

FLOW CURVES



PRODUCT CONFIGURATOR

D	Body Material		Outlet Pressure	End Connections	O-ring Material	Gauges		
	L	I	3	G	EPDM	1		
	Chrome plated brass	L	1 bar 14.5 psi	1 In: 16 x 1.336 Out: G 3/8	G	EPDM - Standard	Without	0
	Stainless steel	I	3 bar 44 psi	3 1/4 NPT - 1/4 NPT	N	NBR	With	1
			10 bar 145 psi	10		FPM		

SERIES D 235-0.1 | DUAL STAGE HP REGULATOR

- Diaphragm dual stage
- Purity up to 6.0
- Inlet pressure: 300 bar (4350 psi)
- Outlet pressure: 0,1 bar (1.45 psi)

- ★ Compact and light-weight design
- ★ 1 inlet / 2 outlets
- ★ O₂ application compatible (brass only)
- ★ Inlet/outlet pressure gauges
- ★ 1 relief valve

Special requirements on request

APPLICATIONS

- Designed for cylinder regulator applications.
- Ideally suited for pure, inert and mildly corrosive gas applications requiring a very stable, very sensitive and very low outlet pressure.

KEY FEATURES

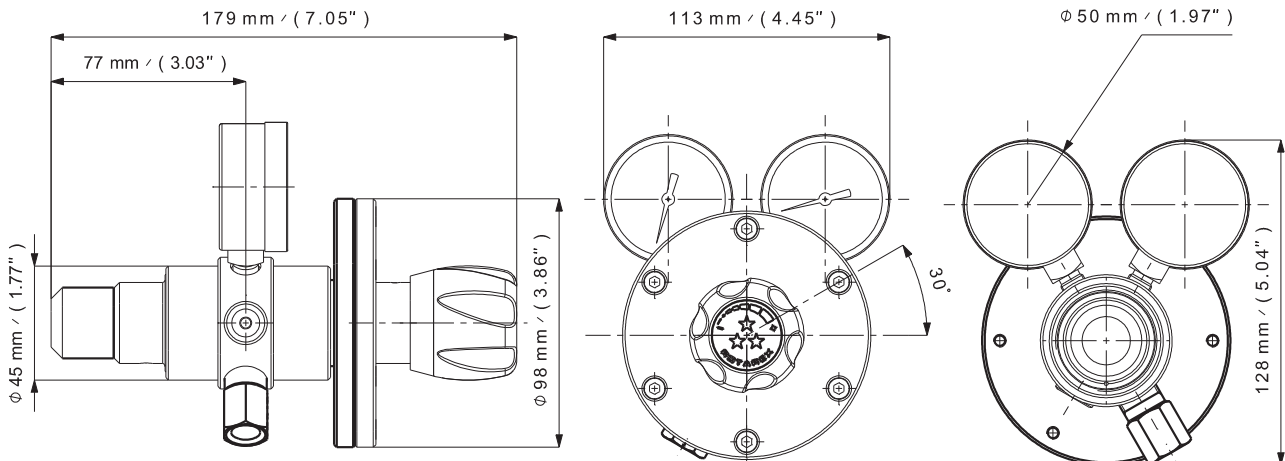
- The DL 235-0.1 regulator is based on the SL 20-0.1 proven low pressure regulator.
- Guarantees a stable low flow due to the large diaphragm.
- Could be also equipped with a needle or shut off valve at the outlet.



To be connected with cylinder connectors



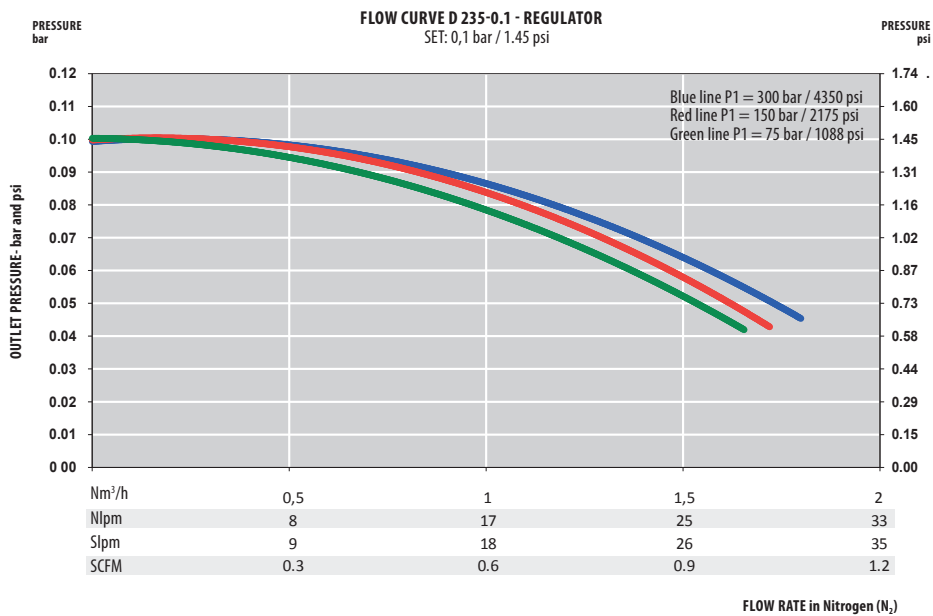
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SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G 3/8 (outlet) or 1/4 NPT (inlet/outlet)	Weight	± 1,45 kg ± 3.2 lbs	Inlet pressure	300 bar 4350 psi
Seat seal	PCTFE	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	0,1 bar 1.4 psi
O-ring	EPDM - Standard NBR FPM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	0,5 Nm ³ /h (N ₂)
Diaphragm	AISI 304	Gauges	High and low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	Brass only

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		End Connections		O-ring Material	Gauges	
D	L	235	0.1	N	EPDM	1
	Chrome plated brass	L		In: 16 x 1.336 Out: G 3/8 1/4 NPT (inlet/outlet)	EPDM - Standard	Without
					NBR	With
					FPM	
						0
						1

SERIES S 10 | LINE REGULATOR

- Diaphragm single stage
- Balanced-Valve Technology
- Purity up to 6.0
- Inlet pressure:
25 bar (360 psi)
- Outlet pressure:
3 bar (44 psi)
or 8 bar (116 psi)

- ★ Compact design
- ★ Reduce the ownership cost
- ★ Front panel mounting
- ★ O₂ application compatible

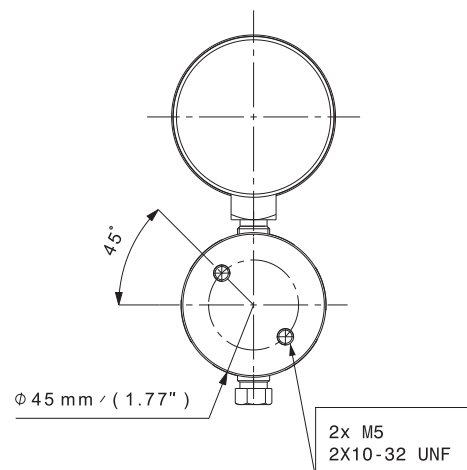
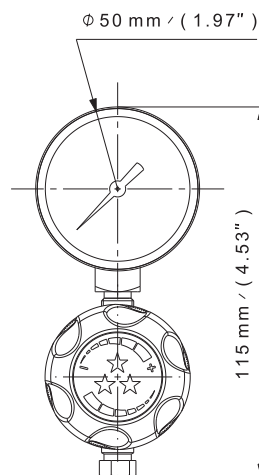
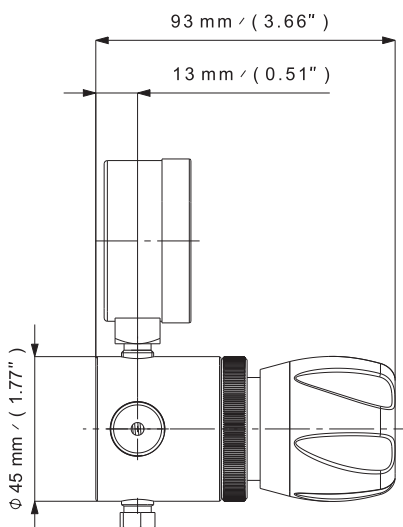
Special requirements on request

APPLICATIONS

- Designed as a second stage line regulator for laboratory applications such as: gas delivery to inductive plasma spectrometer, protection and support gas for chromatograph, environmental emission monitoring, industrial hygiene or safety monitors and trace impurity analyzers.
- Ideally suited as a NH₃ line regulator (EPDM stainless steel version).

KEY FEATURES

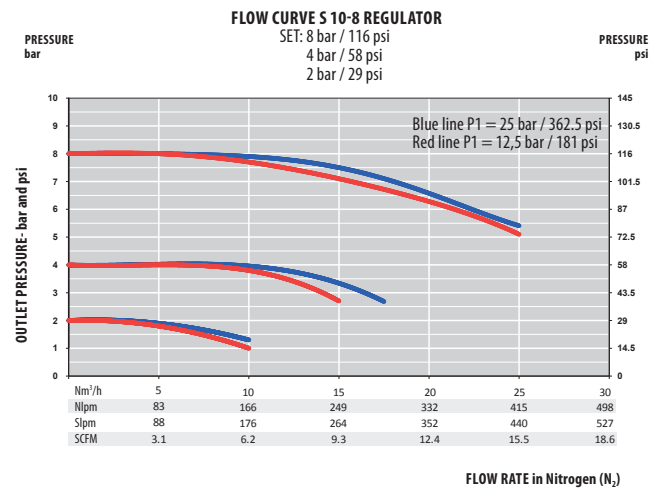
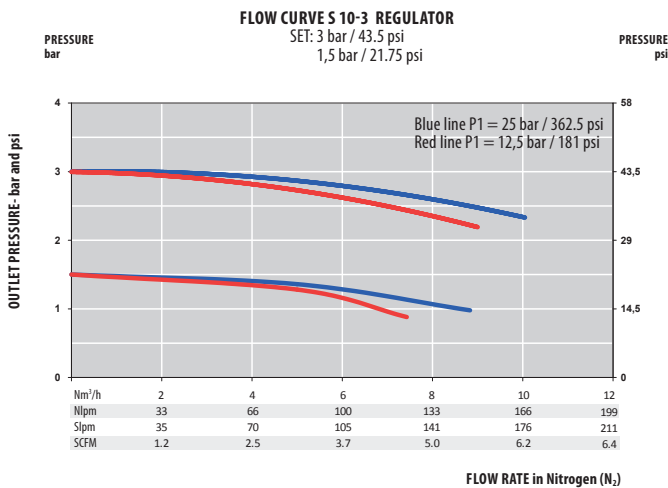
- As a second level of regulation, the SL 10 will supply a precise outlet pressure to the process. It can be used for many applications that need a high flow.
- Flexible wall or panel mounting possible with its compact design, the rear threads and fixing ring.
- Best-in-class pressure control with Balanced-Valve Technology: the effect of inlet pressure fluctuations on outlet pressure are minimized. BV-technology delivers an exceptionally stable outlet pressure and flow even with high flow line regulators.
- Longer useful regulator lifetime and lower total ownership cost.



SPECIFICATIONS

Female ports	G 3/8 or 1/4 NPT (inlet/outlet)	Weight	± 0,6 kg ± 1.32 lbs	Inlet pressure max	25 bar 360 psi
Seat seal	NBR (brass version) FPM (SS version)	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	3/8 bar 44/116 psi
O-ring	NBR (brass version) FPM (SS version) EPDM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	4,5/12 Nm ³ /h (N ₂)
Diaphragm	AlSi 304 (brass version) Hastelloy® (SS version)	Gauges	Low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	OK for brass and stainless steel

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		Outlet Pressure	End Connections	O-ring Material	Gauges	Mounting	Ports Configuration
S	L	10	8	G	1	FR0	A
	Chrome plated brass	3 bar 44 psi	3 G 3/8 - G 3/8	G NBR - Standard with brass version	Without	0 Without Fixing Ring	FR0 Standard Configuration
	Stainless steel	8 bar 116 psi	8 1/4 NPT - 1/4 NPT	N FPM - Standard with stainless steel version EPDM	With	1 With Fixing Ring	FR1 Reverse inlet/outlet

SERIES S 15 | LINE REGULATOR

- Diaphragm single stage
- Balanced-Valve Technology
- Purity up to 6.0
- Inlet pressure:
25 bar (360 psi)
- Outlet pressure:
10 bar (145 psi)

- ★ Reduce the ownership cost
- ★ Front panel mounting
- ★ O₂ application compatible

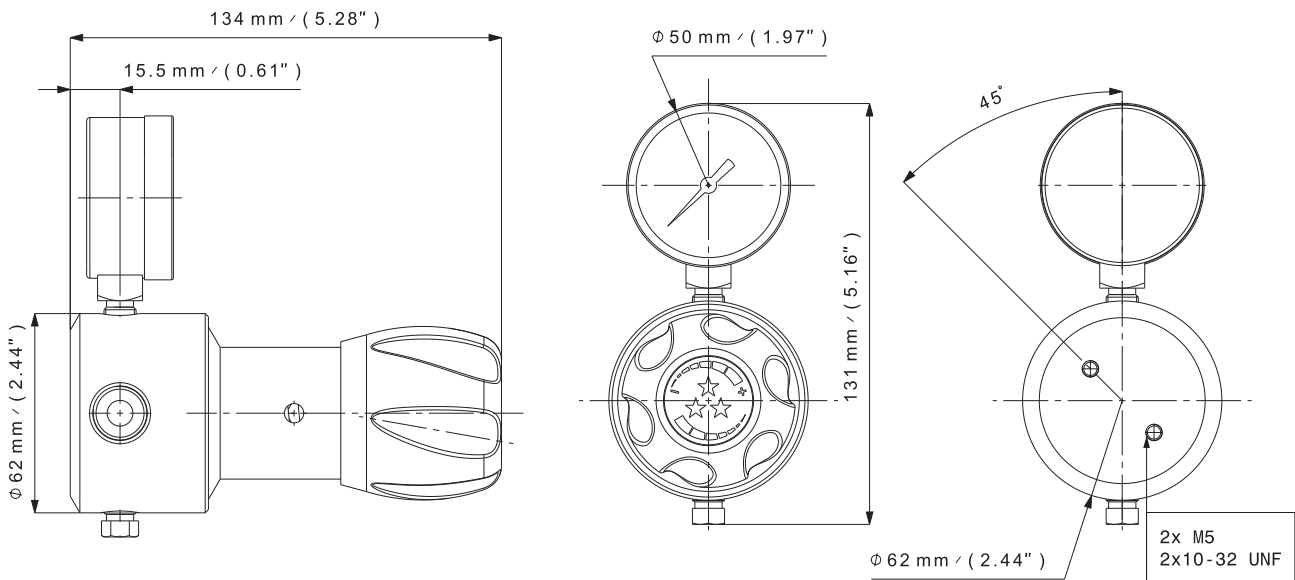
Special requirements on request

APPLICATIONS

- Used as a line regulator for high-flow industrial or lab applications.

KEY FEATURES

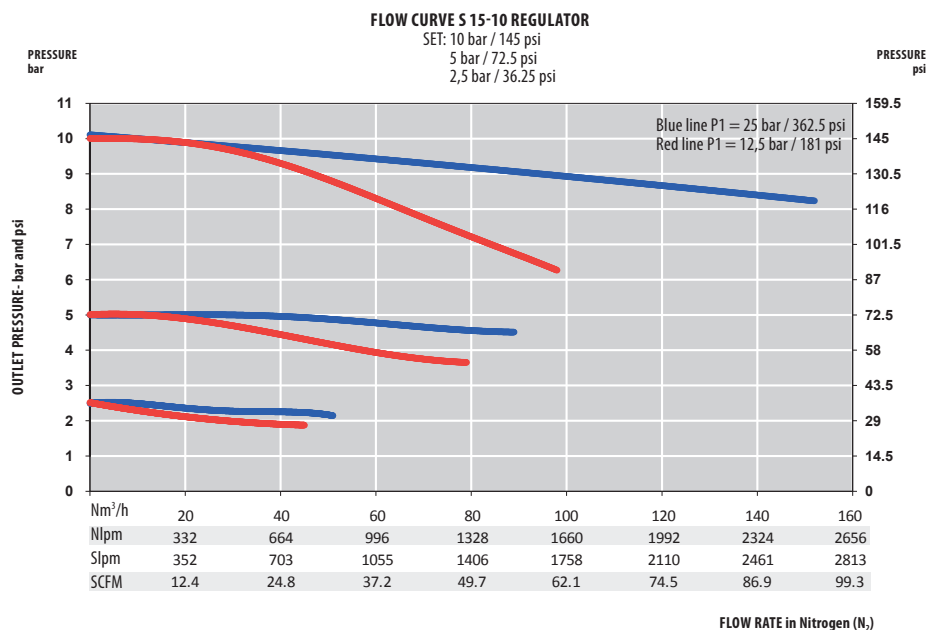
- As a second level of regulation the S 15 will supply a precise outlet pressure to the process.
- Can be used for wall or panel mounting with its compact design, the rear threads and fixing ring.
- Best-in-class pressure stability with Balanced-Valve Technology (Balanced-Valve Technology): the effect of inlet pressure fluctuations on outlet pressure are minimized. BV-technology delivers an exceptionally stable outlet pressure and flow even with high flow line regulators.
- Longer useful regulator lifetime and lower total ownership cost.



SPECIFICATIONS

Female ports	G 3/8 or 1/4 NPT (inlet/outlet)	Weight	± 1,2 kg ± 2.64 lbs	Inlet pressure	25 bar 360 psi
Seat seal	NBR (brass version) FPM (SS version)	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	10 bar 145 psi
O-ring	NBR (brass version) FPM (SS version) EPDM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	50 Nm ³ /h (N ₂)
Diaphragm	AlSI 304 (brass version) Hastelloy® (SS version)	Gauges	Low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	OK for brass and stainless steel

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		Outlet Pressure	End Connections	O-ring Material	Gauges	Ports Configuration			
S	L	15	10	G	NBR	1	A		
	Chrome plated brass	10 bar 145 psi	10	G 3/8 - G 3/8	G	NBR - Standard with brass version	Without 0	Standard Configuration	A
	Stainless steel			1/4 NPT - 1/4 NPT	N	FPM - Standard with stainless steel version EPDM	With 1	Reverse inlet/outlet	R

SERIES S 20 | LINE REGULATOR

- Bellow single stage
- Purity up to 6.0
- Inlet pressure:
50 bar (725 psi)
- Outlet pressure:
1/3/10 bar
14.5/44/145 psi

- ★ Accurate pressure delivery
- ★ Compact design
- ★ 2 inlets / 2 outlet
- ★ Rear Inlet for panel mounting
- ★ O₂ application compatible (see technical data)

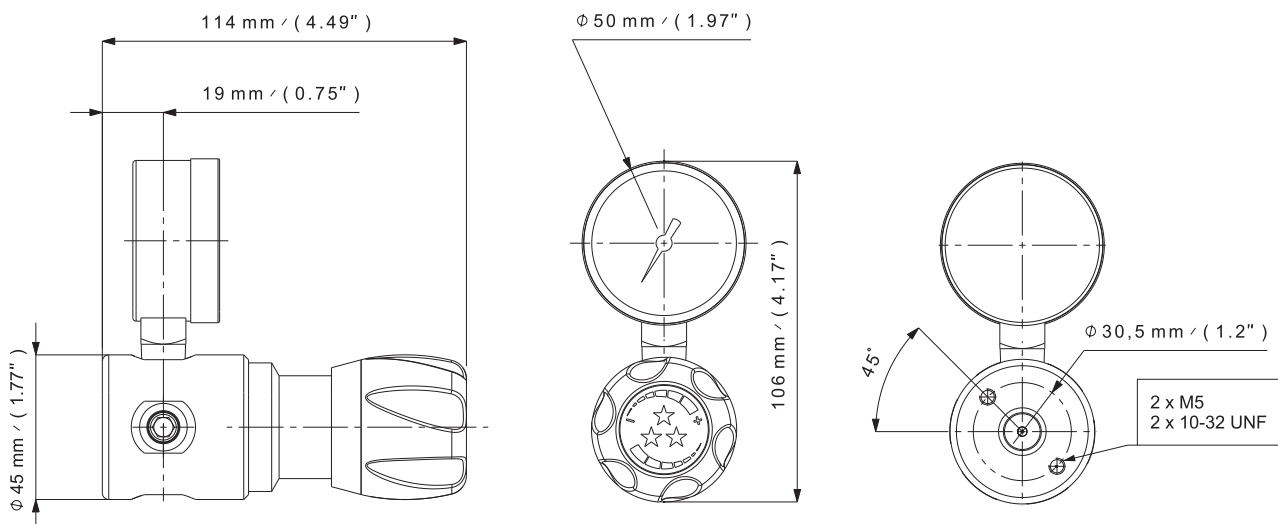
Special requirements on request

APPLICATIONS

- Used as a line or point of use regulator for specialty gas applications requiring very precise repeatability and a high precision of outlet pressure
- Ideally suited for laboratory applications like: gas delivery to inductive plasma spectrometer, protection and support gas for chromatograph.

KEY FEATURES

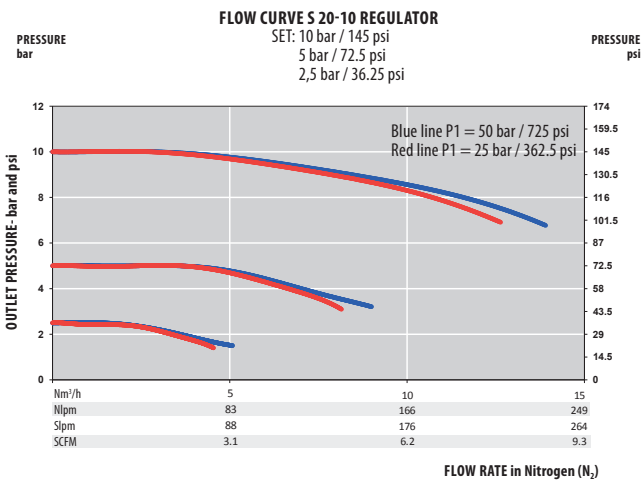
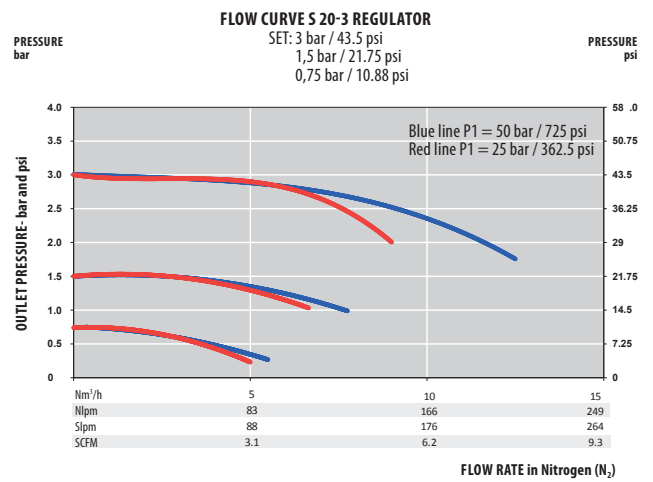
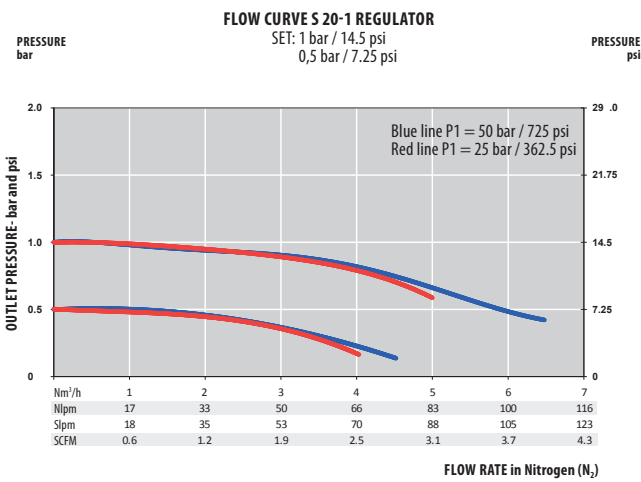
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- With its compact design, the rear threads and its fixing ring (option) it can be used for wall or panel mounting.
- Acetylene version available: Series S 20 AD & S 25 AD (See pages 66 and 68)



SPECIFICATIONS

Female ports	G 3/8 or 1/4 NPT (inlet/outlet)	Weight	± 0,5 kg ± 1.1 lbs	Inlet pressure	50 bar 725 psi
Seat seal	EPDM	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1/3/10 bar 14.5/44/145 psi
O-ring	EPDM - Standard NBR FPM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	2/2,5/3,5 Nm ³ /h (N ₂)
Bellow	Bronze or AISI 316L (SS version)	Gauges	Low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	inlet pressure ≤ 30 bar max. for brass and stainless steel

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		Outlet Pressure	End Connections	O-ring Material	Gauge	Mounting	Ports Configuration		
S	L	20	10	G	EPDM	1	A		
	Chrome plated brass		1	G 3/8 - G 3/8	G	Without Fixing Ring	FR0	Standard Configuration	A
	Stainless steel		3	1/4 NPT - 1/4 NPT	N	With Fixing Ring	FR1	Reverse inlet/outlet	R
			10						

SERIES S 20-0.1 | LINE REGULATOR

- Diaphragm single stage
- Purity up to 6.0
- Inlet pressure:
50 bar (725 psi)
- Outlet pressure:
0,01 - 0,1 bar
0.14 - 1.45 psi

- ★ Very low outlet pressure
- ★ 2 inlets /2 outlet
- ★ Rear inlet
- ★ Rear threads for panel mounting
- ★ High accuracy due to large diaphragm
- ★ O₂ application compatible (see technical data)

Special requirements on request



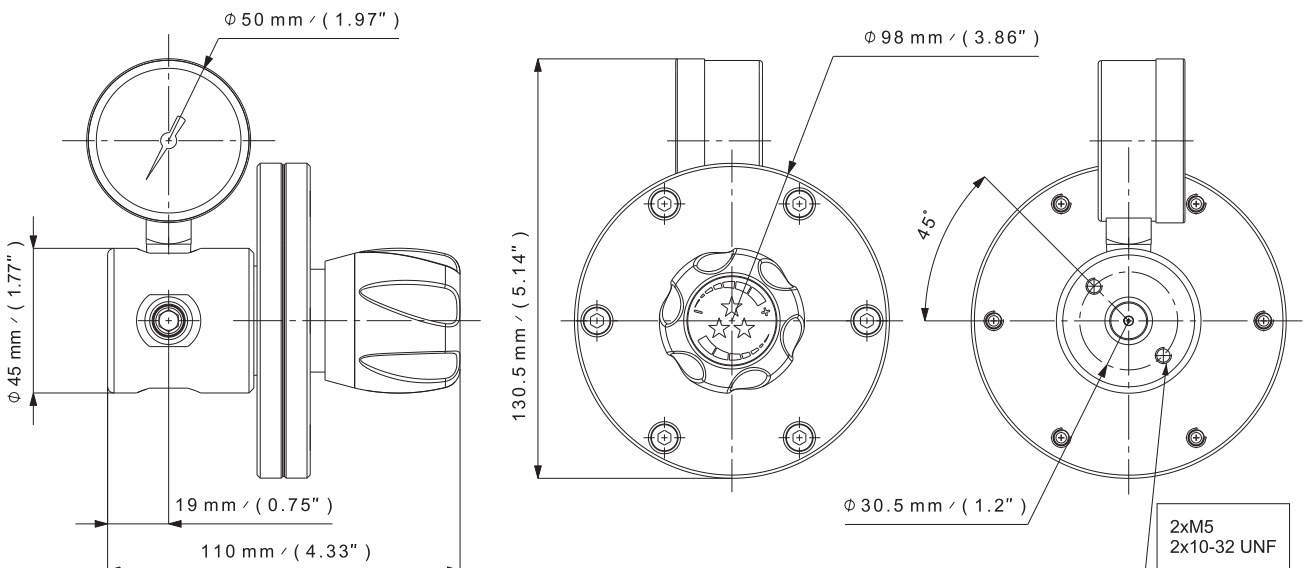
Rear inlet view

APPLICATIONS

- The Series S 20-0.1 is used as a line regulator for lab applications requiring a low outlet pressure less than 100 mbar (1.45 psi).

KEY FEATURES

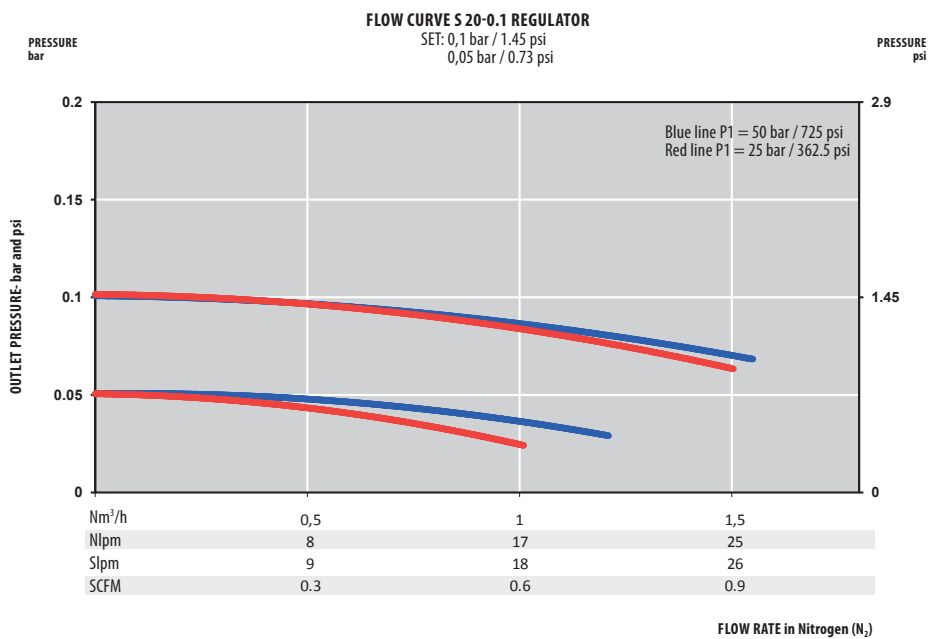
- With the rear threads, it can be used for wall mounting.



SPECIFICATIONS

Female ports	G 3/8 or 1/4 NPT (inlet/outlet)	Weight	± 0,6 kg ± 1.32 lbs	Inlet pressure	50 bar 725 psi
Seat seal	EPDM	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	0,01 - 0,1 bar 0.14 - 1.45 psi
O-ring	EPDM - Standard NBR FPM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	0,5 Nm ³ /h (N ₂)
Diaphragm	AISI 304	Gauges	Low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	inlet pressure ≤ 30 bar max. for brass and stainless steel

FLOW CURVES



PRODUCT CONFIGURATOR

S	Body Material		End Connections		O-ring Material	Gauges	Ports Configuration		
	L	20	0.1	G	EPDM	1	A		
	Chrome plated brass	L		G 3/8 - G 3/8	EPDM - Standard	Without	0	Standard Configuration	A
	Stainless steel	I		1/4 NPT - 1/4 NPT	NBR	With	1	Reverse inlet/outlet	R
					FPM				

SERIES S 55 | LINE REGULATOR

- Diaphragm single stage
- Purity up to 6.0
- Inlet pressure:
50 bar (725 psi)
- Outlet pressure:
3/8/10/16/35 bar
44/116/145/232/508 psi

- ★ Accurate pressure delivery
- ★ Compact design
- ★ 2 inlets / 2 outlets
- ★ Rear Inlet for panel mounting
- ★ O₂ applications compatible (see technical data)

Special requirements on request



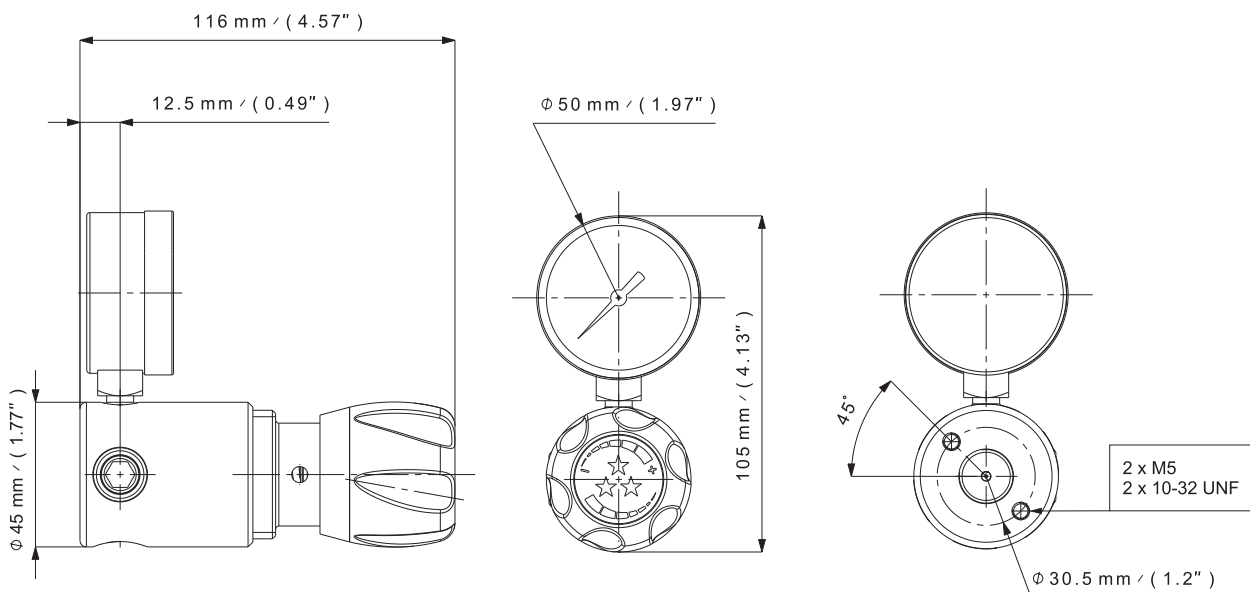
Rear inlet view

APPLICATIONS

- Designed for line regulator applications in petrochemical, industrial and laboratory environments.
- Used in calibration gas mixtures for petrochemical industry; environmental emission monitoring, industrial hygiene or safety monitors and trace impurity analyzers.
- Also commonly used to oxygenate fish-breeding tanks.

KEY FEATURES

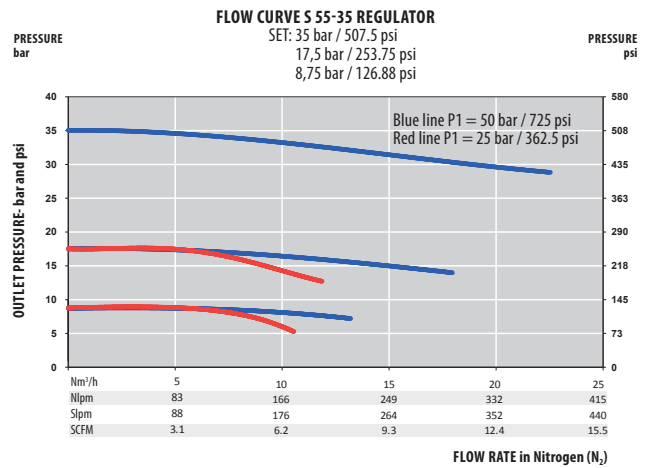
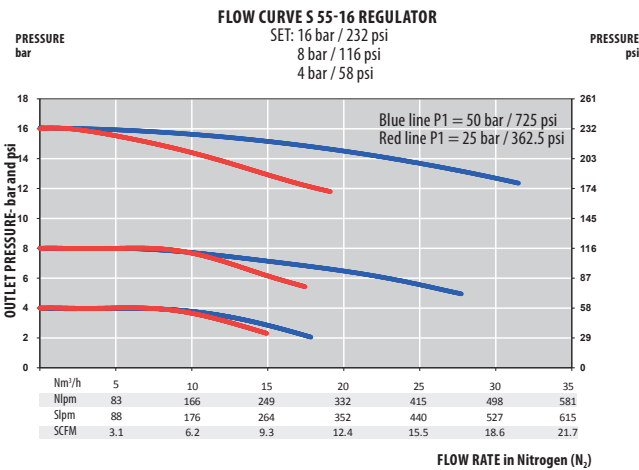
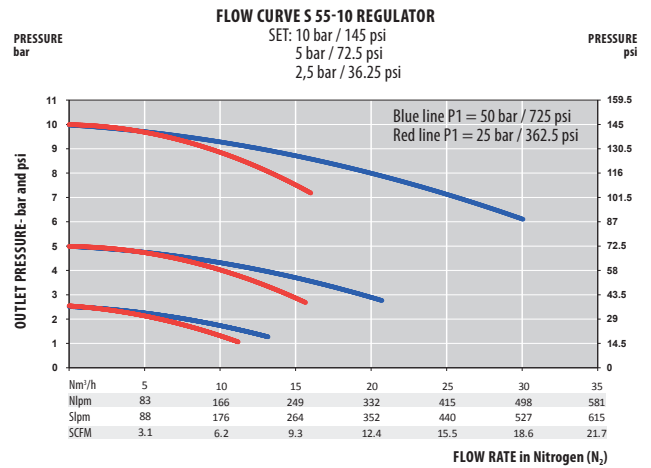
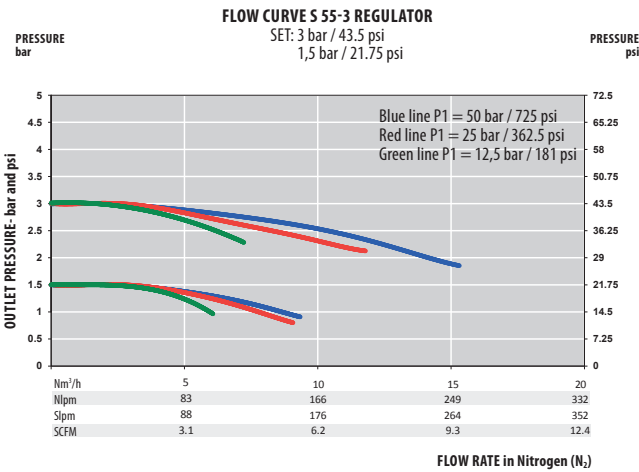
- With its compact design, the rear threads and its fixing ring it can be used for wall or panel mounting.
- Multiple mounting possibilities due to its inlet/outlet.



SPECIFICATIONS

Female ports	G 3/8 or 1/4 NPT (inlet/outlet)	Weight	± 0,8 kg ± 1.8 lbs	Inlet pressure	50 bar 725 psi
Seat seal	EPDM	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	3/8/10/16/35 bar 44/116/145/232/508 psi
O-ring	EPDM - Standard NBR FPM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	2,5/3/3,5/5,5/10 Nm ³ /h (N ₂)
Diaphragm	AISI 304 (3/8/10 bar) Hastelloy® (16/35 bar)	Gauges	Low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	inlet pressure ≤ 30 bar max. for brass and stainless steel

FLOW CURVES



PRODUCT CONFIGURATOR

S	Body Material		Outlet Pressure		End Connections		O-ring Material	Gauges		Mounting		Ports Configuration		
	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 - Standard	Without	0	Without Fixing Ring	FR0	Standard configuration	A
	Stainless steel	I		8 bar 116 psi	8	1/4 NPT - 1/4 NPT	N	NBR	With	1	With Fixing Ring	FR1	Reverse inlet/outlet	R
				10 bar 145 psi	10			FPM						
				16 bar 232 psi	16									
				35 bar 508 psi	35									

* FR1 not available with the 35 bar version

SERIES DC 50 | HIGH FLOW LINE REGULATOR

- Diaphragm single stage
- Balanced-Valve Technology
- Purity up to 5.0
- Inlet pressure:
50 bar (725 psi)
- Outlet pressure:
8/15/40 bar
116/217/580 psi
- Acetylene version (AD - C₂H₂):
P1=1,5 bar (21.75 psi)
P2=0,8 bar (12 psi)

- ★ 1 inlet / 1 outlet
- ★ Rear thread for panel mounting
- ★ O₂ application compatible
- ★ High flow

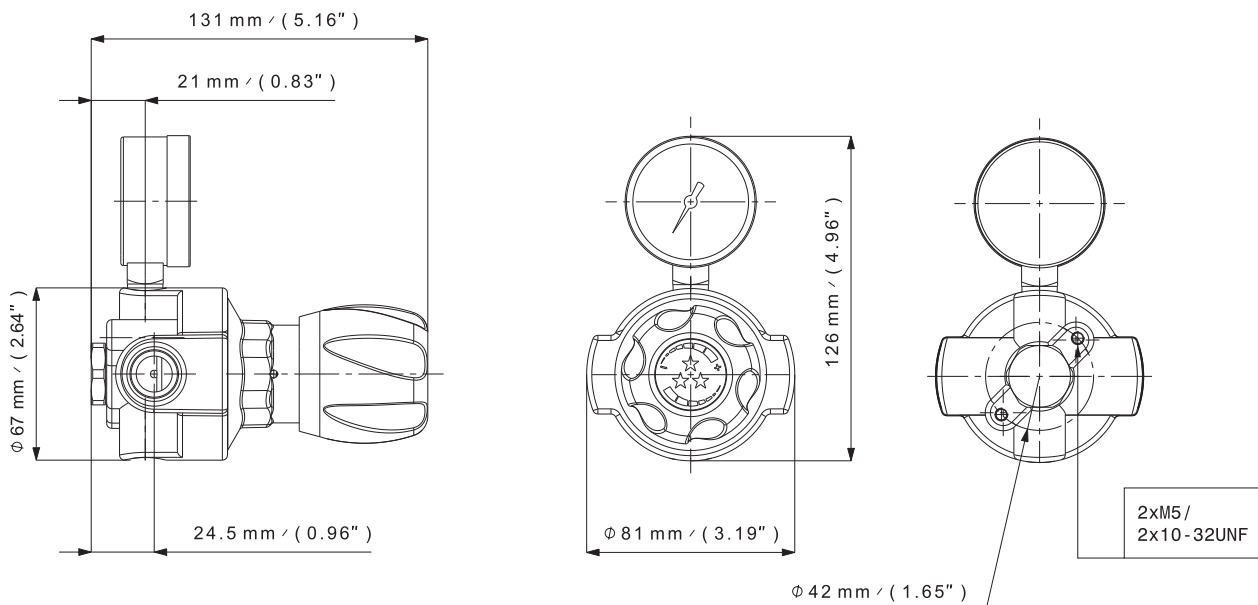
Special requirements on request

APPLICATIONS

- For all applications requiring a low pressure with high flow.
- Ideally suited as line regulator in combination either with MOD supply board or CEN switch over board.

KEY FEATURES

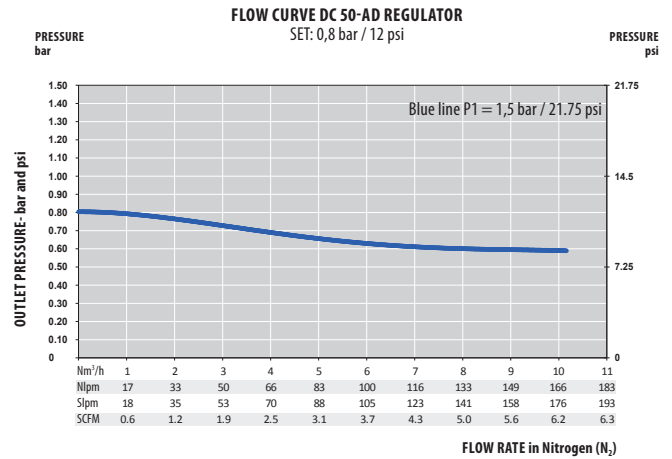
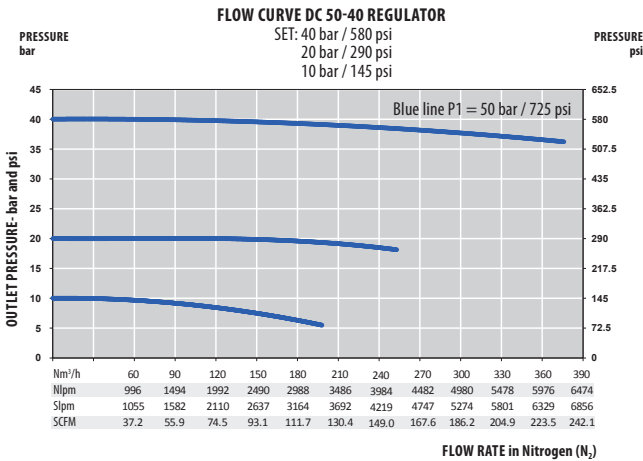
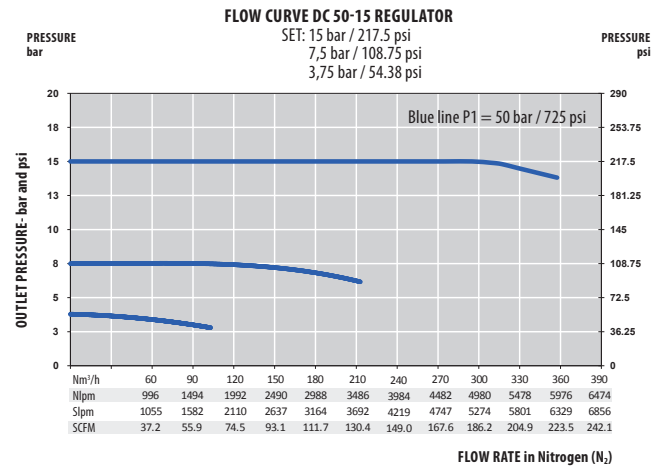
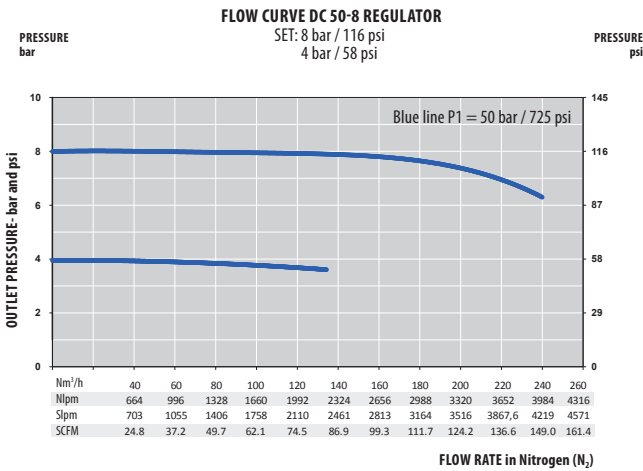
- Low pressure regulator with high flow, without vibration.
- Best-in-class pressure stability with Balanced-Valve Technology: the effect of inlet pressure fluctuations on outlet pressure is minimized. BV-technology enables the delivery of a very stable outlet pressure and flow even with high flow line regulators.
- reduced strain on the seat increases regulator life and reduces the ownership cost.
- Acetylene version available:
P1=1,5 bar/P2=0,8 bar/Q=10 Nm³/h
- For use with acetylene this product must be installed with a flash back arrestor complying with the standard EN 730 located downstream.



SPECIFICATIONS

Female ports	G ½ or ½ NPT (inlet/outlet)	Weight	± 1,4 kg ± 3.1 lbs	Inlet pressure	50 bar (725 psi) AD: 1,5 bar (21.75 psi)
Seat seal	EPDM	Leak rate	10 ⁻³ mbar ℓ/s He	Outlet pressure	8/15/40 - 0,8 bar (AD) 116/217/580 - 12 psi (AD)
O-ring	EPDM - Standard NBR FPM	Temperature range	- 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	Gauges	Low pressure (G ¼ or ¼ NPT)	Oxygen use	OK

FLOW CURVES



PRODUCT CONFIGURATOR

			Outlet Pressure	End Connections	O-ring Material	Body Material	Gauges				
D	C	50	40	G	EPDM	L	1				
			8 bar 116 psi	8	G ½ - G ½	G	EPDM - Standard	Chrome plated brass	L	Without	0
			15 bar 217 psi	15	½ NPT - ½ NPT	N	NBR	Raw brass	LB	With	1
			40 bar 580 psi	40			FPM				
			Acetylene version 0,8 bar (12 psi)	AD							

SERIES S 21 | POINT OF USE

- Bellow single stage
- Purity up to 6.0
- Inlet pressure:
50 bar (725 psi)
- Outlet pressure:
1/3/10 bar
14.5/44/145 psi
- Acetylene version (AD - C₂H₂):
P1 = 20 bar (290 psi)
P2 = 1,5 bar (21.75 psi)

- ★ Precise pressure delivery
- ★ Compact design
- ★ 2 inlets / 1 outlet
- ★ Rear Inlet for panel mounting
- ★ Integrated ¼ turn shutoff valve
- ★ O₂ applications compatible (see technical data)

Special requirements on request

APPLICATIONS

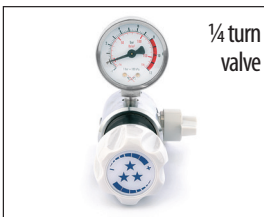
- Used as a line regulator or point of use for specialty gas applications.

KEY FEATURES

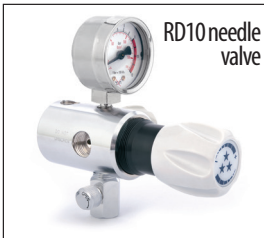
- Based on the Series S 20 technology.
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- With the rear threads and fixing ring (option) it can be used for wall or panel mounting.
- Acetylene version also available.
- For use with acetylene, this product must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream.
- The inlet shut off valve reduces the risk of gas dispersion when closed.



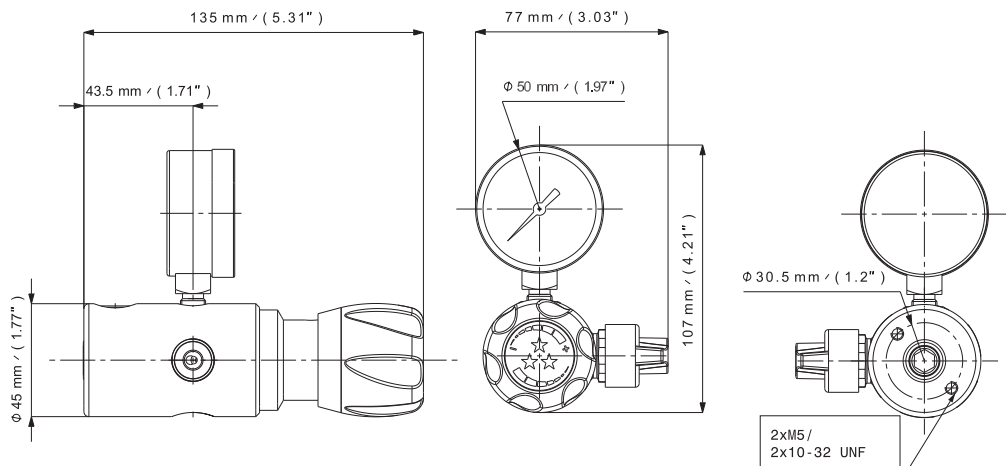
Acetylene version



¼ turn valve



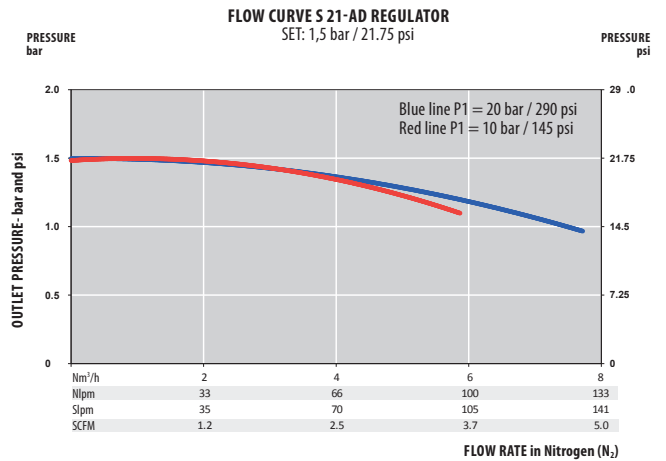
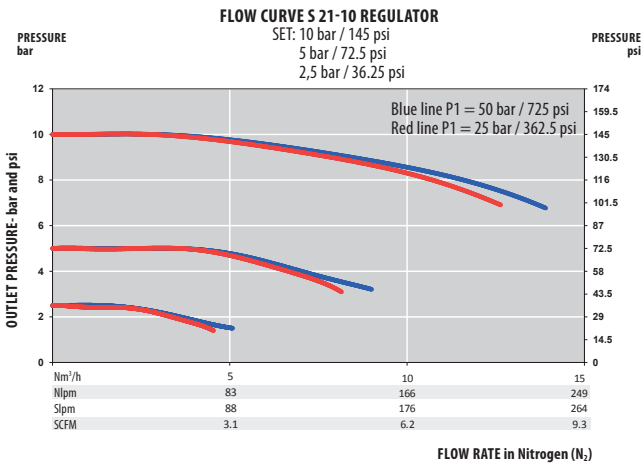
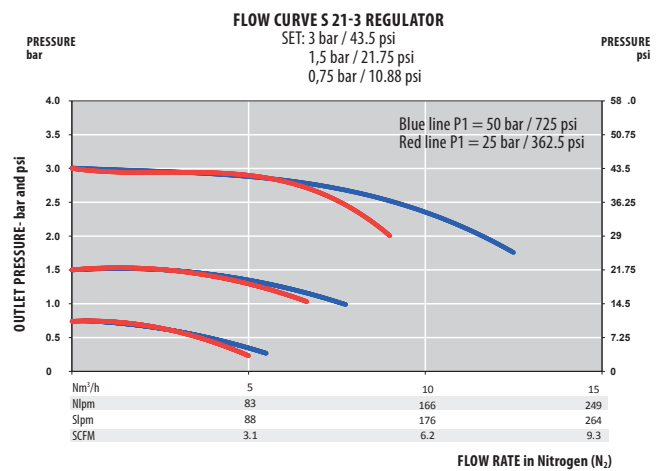
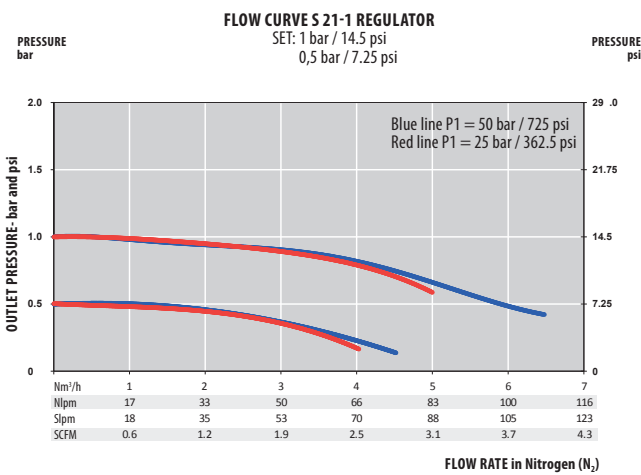
RD10 needle valve



SPECIFICATIONS

Female ports	G 3/8 (inlet/outlet) or 1/4 NPT (inlet/outlet)	Weight	± 0,9 kg ± 2.0 lbs	Inlet pressure	50 bar (725 psi) AD: 20 bar (290 psi)
Seat seal	EPDM	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1/3/10 bar 14.5/44/145 psi AD: 1,5 bar (21.75 psi)
O-ring	EPDM - Standard NBR FPM	Temperature range	-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 (Valve)	Hastelloy®	Gauges	Low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	inlet pressure ≤ 30 bar max. for brass and stainless steel
Bellow	Bronze (Brass version) AISI 316L (SS version)				

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		Outlet Pressure	End Connections	O-ring Material	Gauge	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 - standard	Without	0	Without plate	STD
	Stainless steel	I	3 bar / 44 psi	3	1/4 NPT - 1/4 NPT	N	NBR	With	1	With metal plate	M
			10 bar / 145 psi	10			FPM			Mounted on an aluminum stand	EMB
			Acetylene version / 1,5 bar (21.75 psi)	AD							

LABLINE S 22 | MODULAR POINT OF USE

- Bellow single stage
- Purity up to 6.0
- Inlet pressure: 50 bar (725 psi)
- Outlet pressure: 1/3/10 bar 14.5/44/145 psi
- Acetylene version (AD - C₂H₂): P1 = 20 bar (290 psi) P2 = 1,5 bar (21.75 psi)

- ★ Accurate pressure delivery
- ★ Compact design
- ★ 1 inlet / 2 outlets
- ★ Modular concept
- ★ O₂ applications compatible (see technical data)

Special requirements on request

APPLICATIONS

- A terminal point of use for specialty gas applications in a laboratory or in a workshop.

KEY FEATURES

- Based on the Series 20 platform
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- Acetylene version also available.
- For use with acetylene, this product must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream.
- With the inlet shut off valve the regulator is independent from the installation and can be easily removed.



SLS22-EMB-10-G-EPDM-1-MV version



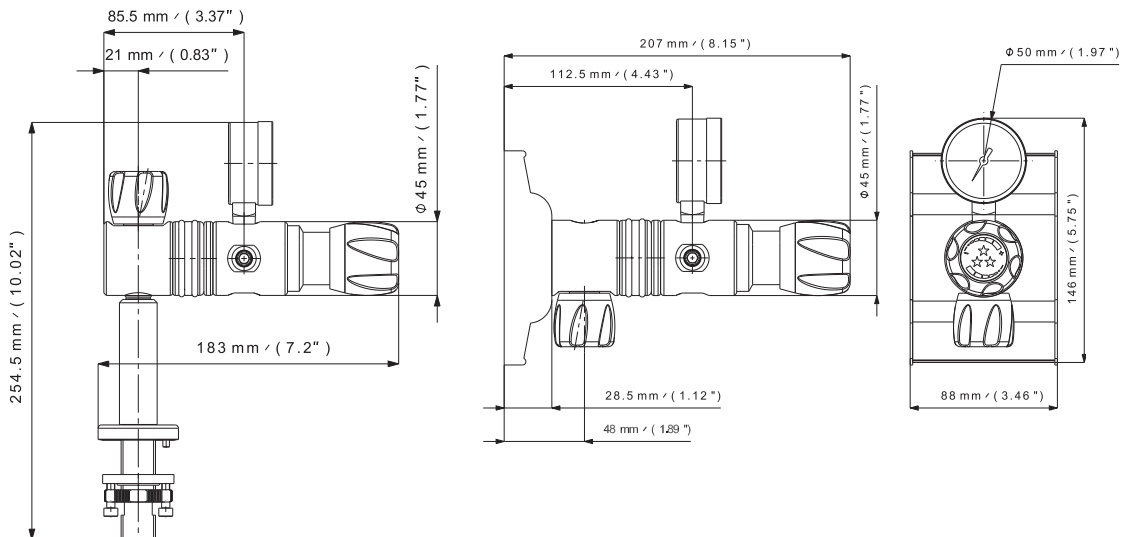
Acetylene version



M version w/ 1/4V valve

EMB version w/ MV valve

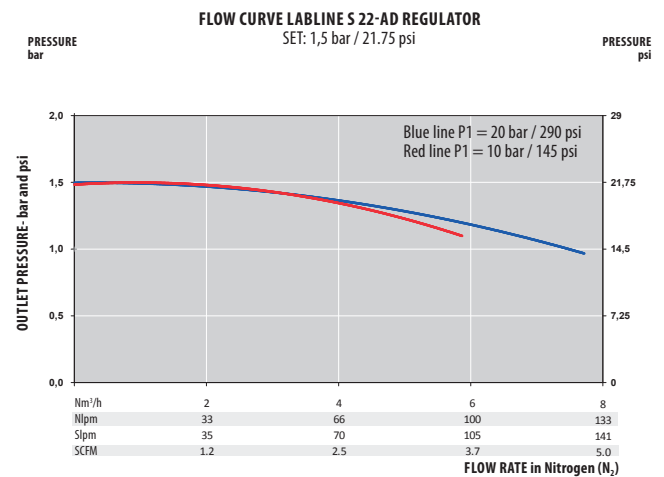
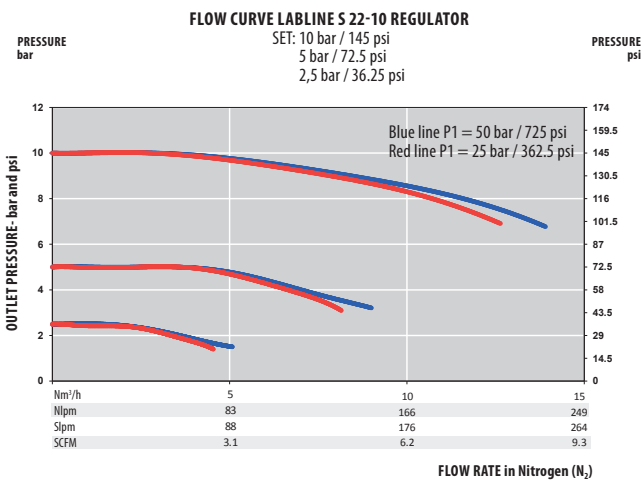
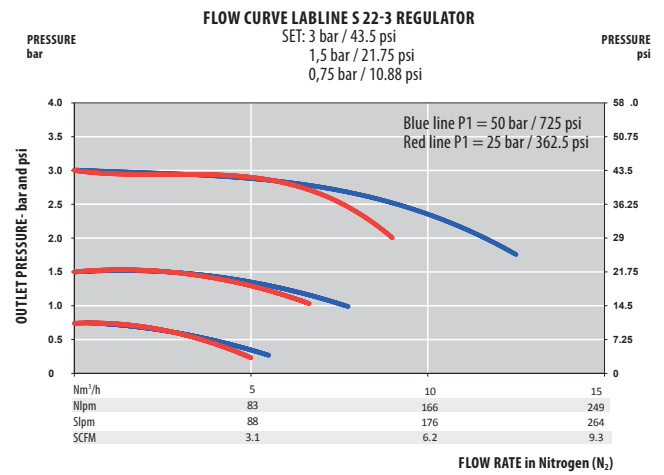
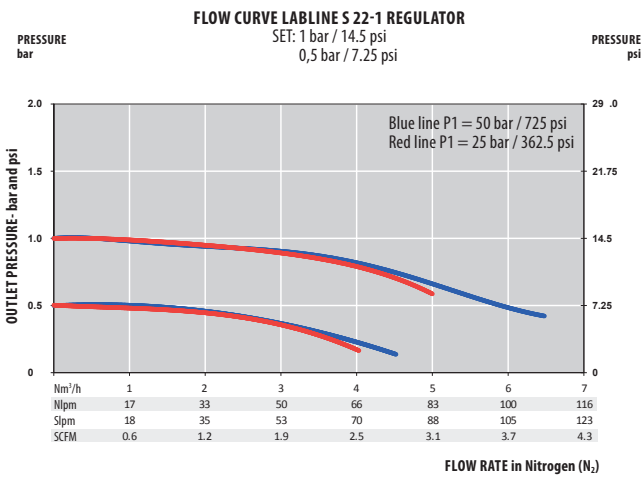
COL version w/ MV valve



SPECIFICATIONS

Female ports	F: G ¼ (inlet-COL version) G ¾ or ¼ NPT (inlet) G ¾ or ¼ NPT (outlet)	Weight	± 1,5 kg ± 3.3 lbs	Inlet pressure	50 bar (725 psi) AD: 20 bar (290 psi)
Seat seal	EPDM	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1/3/10 bar 14.5/44/145 AD: 1,5 bar (21.75 psi)
O-ring	EPDM - Standard NBR FPM	Temperature range	-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®	Gauges	Low pressure (M10 x 1 or ¼ NPT)	Oxygen use	inlet pressure ≤ 30 bar max. for brass and stainless steel
Bellow	Bronze or AISI 316L (SS version)				

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		Version	Outlet Pressure	End Connection	O-ring Material	Gauges	Valve						
S	L	S22	EMB	10	G	1	¼V						
	Chrome plated brass		With Metal Plate	M	1 bar / 14.5 psi	1	G ¾ - Female (outlet)	G	EPDM - standard	Without	0	¼ turn valve	¼V
	Stainless steel		With Aluminum stand	EMB	3 bar / 44 psi	3	¼ NPT (outlet)	N	NBR	With	1	Multi-turn valve	MV
			With pillar*	COL	10 bar / 145 psi	10	Note: inlet G ¼ with COL version		FPM				
			Acetylene version	AD	1,5 bar / 21.75 psi								

*only with multi-turn value

MONO SERIES S 15 | COMPACT POINT OF USE

- Diaphragm single stage
- Balanced-Valve Technology
- Purity up to 6.0
- Inlet pressure:
25 bar (360 psi)
- Outlet pressure:
10 bar (145 psi)

- ★ Compact design
- ★ Reduction of connection (avoid leakage)
- ★ High Flow
- ★ 2 inlets/ 2 outlets
- ★ Rear inlet for front panel mounting
- ★ O₂ application compatible

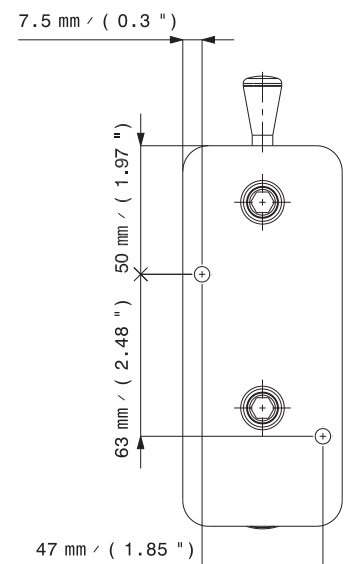
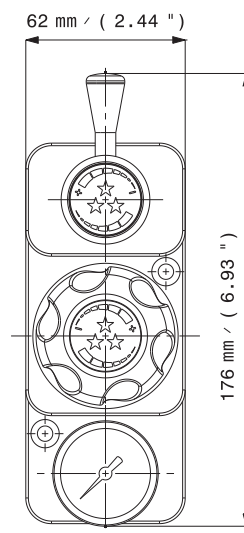
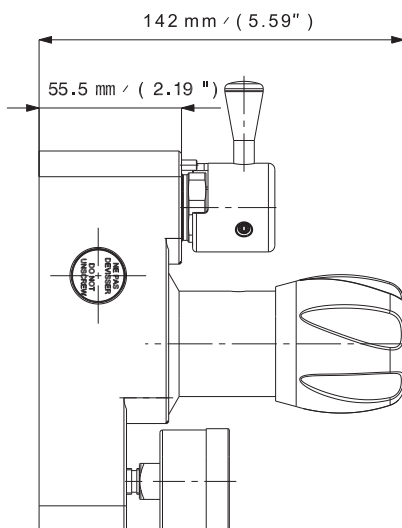
Special requirements on request

APPLICATIONS

- A terminal point of use for specialty gas applications in a laboratory or in a workshop.

KEY FEATURES

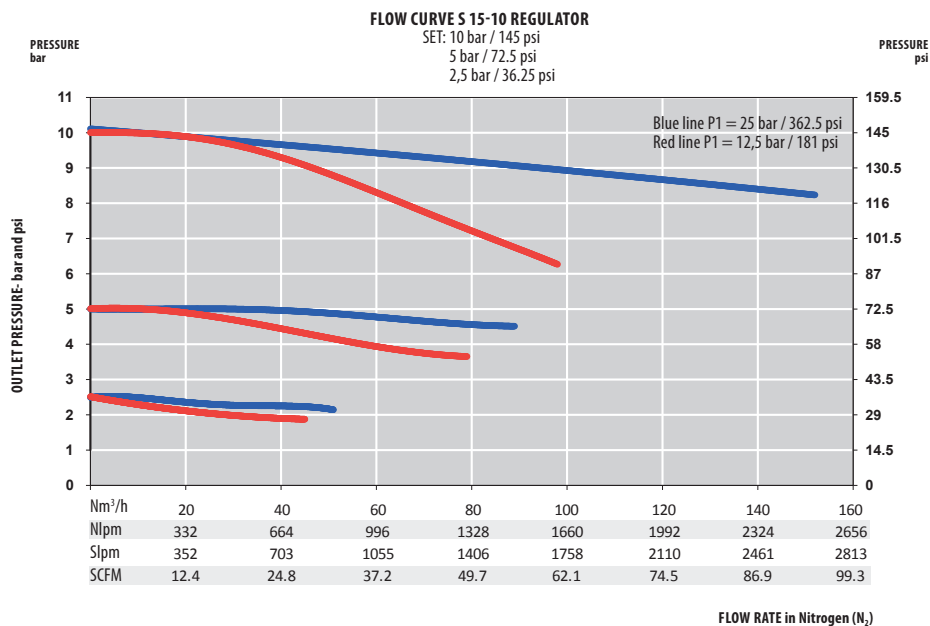
- Made up with a Series S 15 type regulator and a VLM 200 valve.
- Best-in-class pressure stability with Balanced-Valve Technology: the effect of inlet pressure fluctuations on outlet pressure are minimized. BV-technology enables the delivery of a very stable outlet pressure and flow even with high flow line regulators.
- Reduces the strain on the seat to increase regulator life and reduce the ownership cost.
- Compact outline dimensions and ergonomic design make this point of use suitable for laboratory furniture.



SPECIFICATIONS

Female ports	G 3/8 (inlet/outlet) or 1/4 NPT (inlet/outlet)	Weight	Aluminum: ± 1,86 kg (± 4.10 lbs) Stainless steel: ± 3,8 kg (± 8.37 lbs)	Inlet pressure	25 bar 360 psi
Seat seal	EPDM	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	10 bar 145 psi
O-ring	EPDM - Standard NBR FPM	Temperature range	-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)	Gauges	Low pressure (M10 x 1)	Oxygen use	OK

FLOW CURVES



PRODUCT CONFIGURATOR

		Body Material		Outlet Pressure		End Connections		O-ring Material	Configuration	
M	S	A	15	10	10	G	G	EPDM	A	A
		Aluminum	A	10 bar 145 psi		G 3/8 - G 3/8	G	EPDM - standard	Standard configuration	A
		Stainless steel	I			1/4 NPT - 1/4 NPT	N	NBR	reverse gauge (180°)*	R
								FPM		

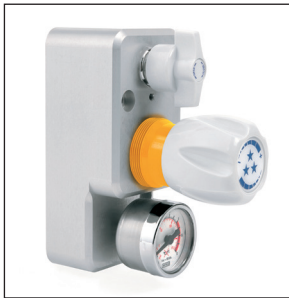
*Inlet Down - outlet Top

MONO SERIES S 20 | COMPACT POINT OF USE

- Bellow single stage
- Purity up to 6.0
- Inlet pressure:
50 bar (725 psi)
- Outlet pressure:
1/3/10 bar (14.5/44/145 psi)
- Acetylene version (AD - C₂H₂):
P1 = 20 bar (290 psi)
P2 = 1,5 bar (21.75 psi)

- ★ Accurate pressure delivery
- ★ Compact design
- ★ 2 inlets / 2 outlets
- ★ Rear inlet for front panel mounting
- ★ O₂ application compatible (see technical data)

Special requirements on request



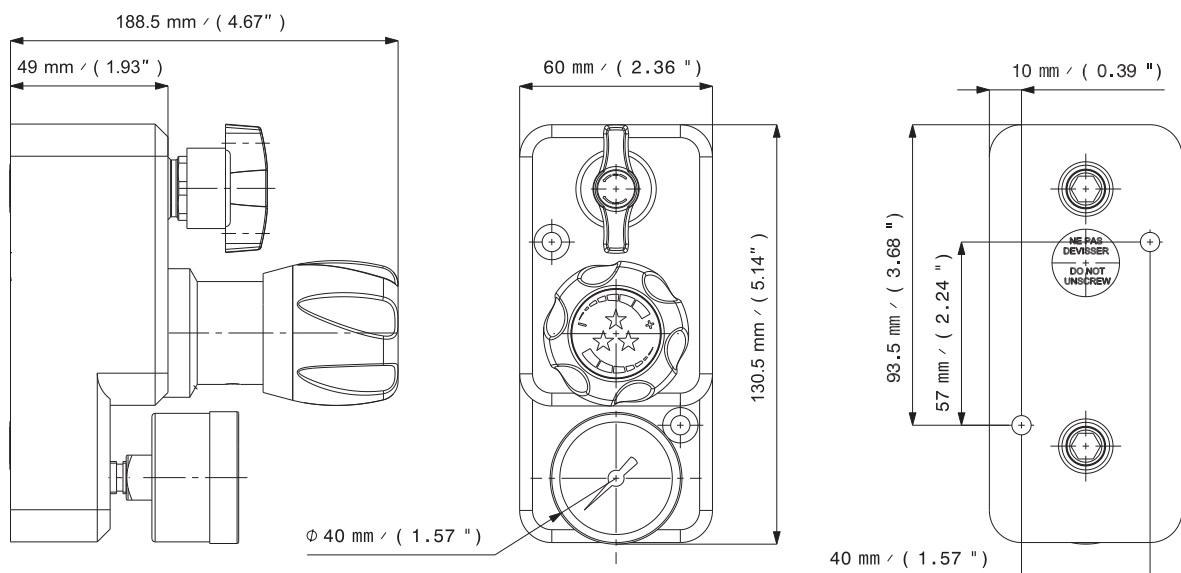
Acetylene version

APPLICATIONS

- A terminal point of use for specialty gas applications in a laboratory or a workshop.

KEY FEATURES

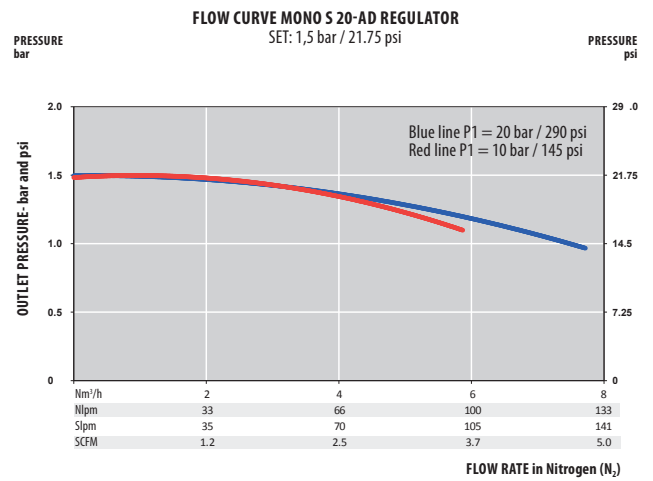
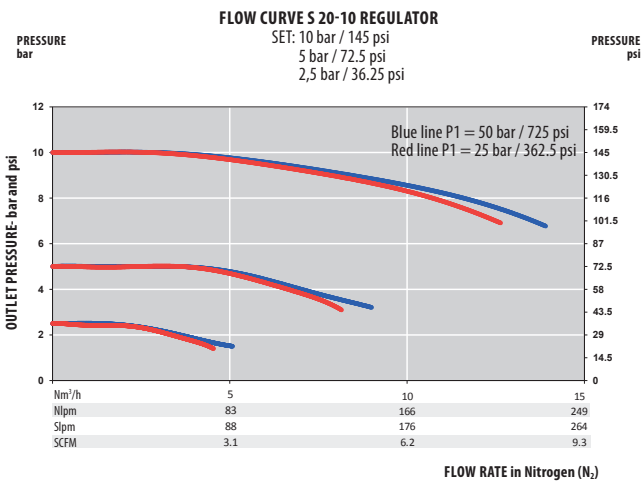
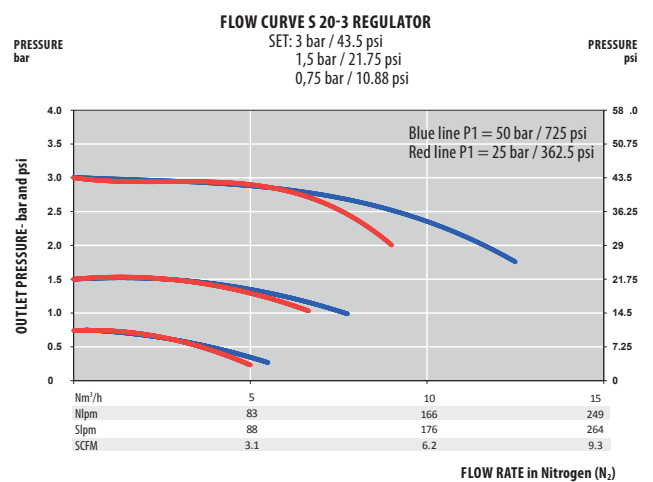
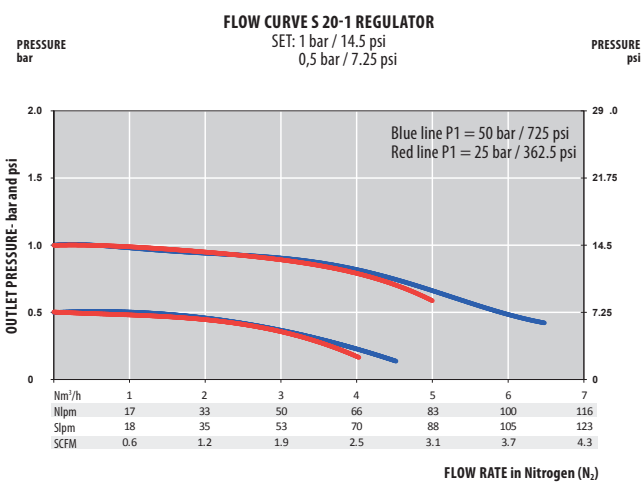
- Made up with a Series S 20 type regulator and a VM 20 valve.
- Compact outline dimensions and ergonomic design make this point of use suitable for laboratory furniture.
- Acetylene version also available.
- For use with acetylene, this product must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream.
- The Mono S 20 can be integrated easily on furniture due to its compact design



SPECIFICATIONS

Female ports	G 3/8 (inlet/outlet) or 1/4 NPT (inlet/outlet)	Weight	Aluminum: ± 1,25 kg (± 2.75 lbs) Stainless steel: ± 2,75 (± 6.06 lbs)	Inlet pressure	50 bar (725 psi) AD: 20 bar (290 psi)
Seat seal	EPDM	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1/3/10 bar 14.5/44/145 psi AD: 1,5 bar (21.75 psi)
O-ring	EPDM - Standard NBR FPM	Temperature range	-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 (valve)	Hastelloy®	Gauges	Low pressure (M10 x 1)	Oxygen use	inlet pressure ≤ 30 bar max. for aluminum and stainless steel
Bellow	Bronze or AISI 316L (SS version)				

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		Outlet Pressure	End Connections	O-ring Material	Configuration
M	S	20	8	G	EPDM
	A	10	1	G	EPDM - standard
	A	14.5 psi	1	G	Standard configuration
	I	3 bar / 44 psi	3	N	NBR reverse gauge (180°)*
		10 bar / 145 psi	10		FPM
		Acetylene version / 1,5 bar (21.75 psi)	AD		

*Inlet Down - outlet Top

MONO SERIES S 40 | COMPACT POINT OF USE

- Bellow single stage
- Purity up to 6.0
- Inlet pressure:
50 bar (725 psi)
- Outlet pressure:
1/3/10 bar (14.5/44/145 psi)
- Acetylene version (AD - C₂H₂):
P1 = 20 bar (290 psi)
P2 = 1,5 bar (21.75 psi)

- ★ Precise pressure delivery
- ★ Compact design
- ★ 3 inlets / 3 outlets
- ★ 1 integrated needle valve
- ★ Rear Inlet for panel mounting
- ★ O₂ application compatible (see technical data)

Special requirements on request



Acetylene version

APPLICATIONS

- Used as a point of use for laboratory applications
- Suitable for all applications requiring the regulation of flow.

KEY FEATURES

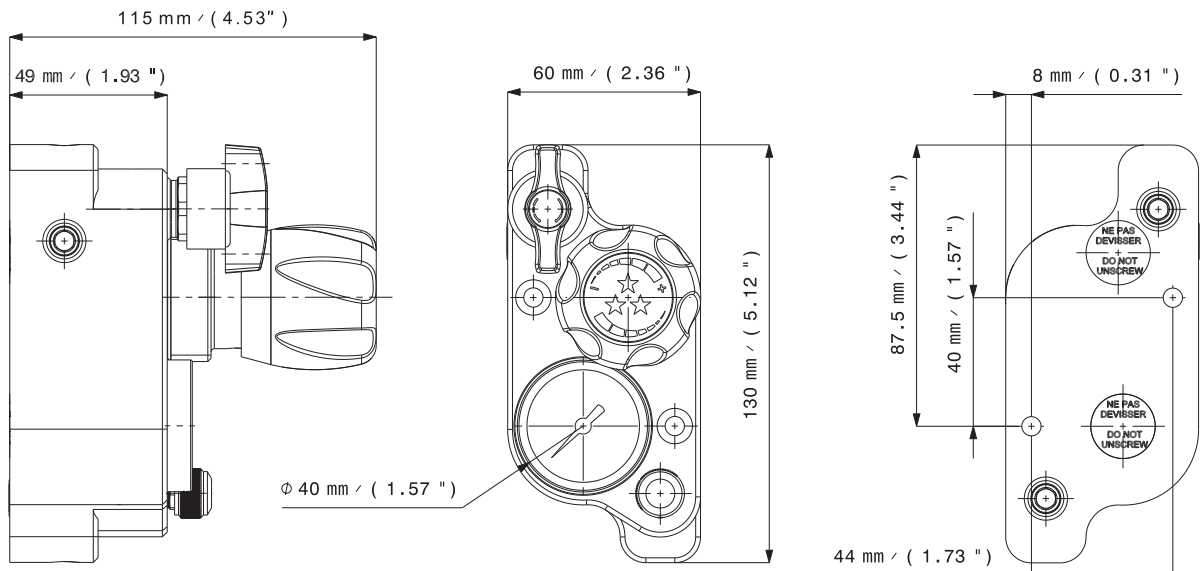
- Made up with a Series S 20 type regulator, a VM 20 valve and a RDL 10 regulation needle valve.
- Compact outline dimensions and ergonomic design make this point of use suitable for laboratory furniture.
- Vertical or horizontal orientation.
- Acetylene version available.
- For use with acetylene, this product must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream.



Horizontal version



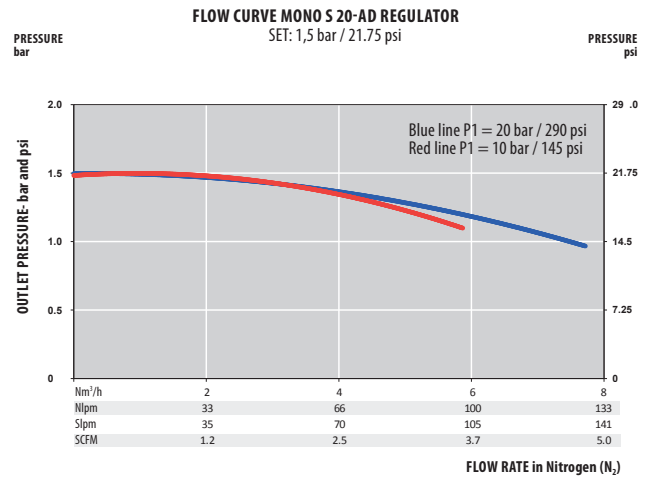
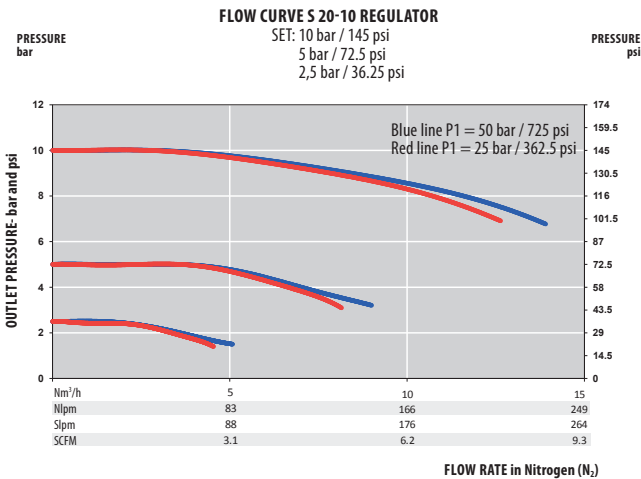
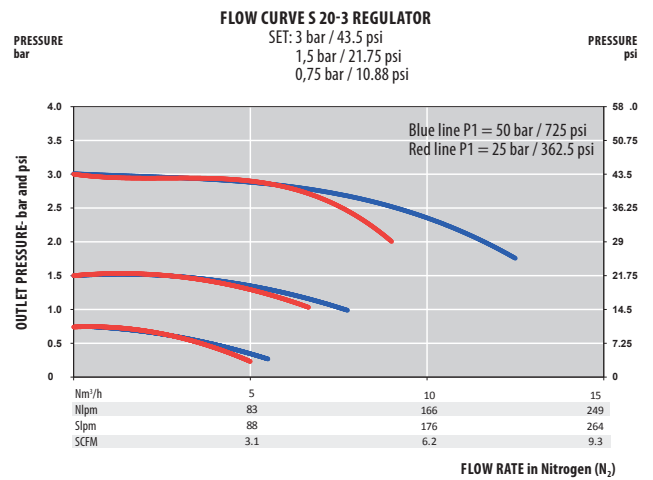
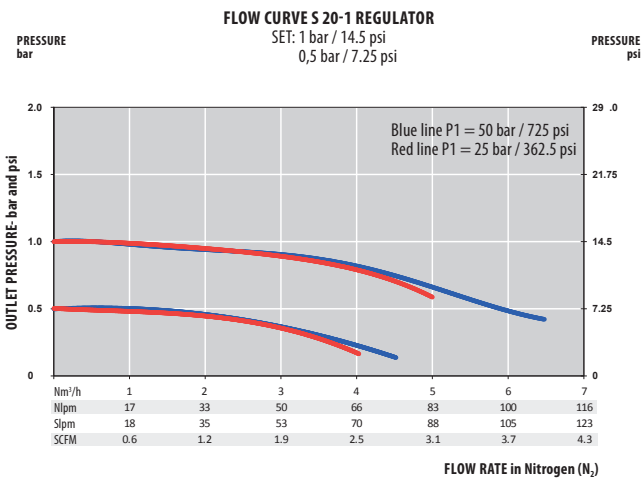
Vertical version



SPECIFICATIONS

Female ports	G ¼ (inlet/outlet) or ¼ NPT (inlet/outlet)	Weight	Aluminum: ± 1 kg (± 2.20 lbs) Stainless steel: ± 2 kg (± 4.40 lbs)	Inlet pressure	50 bar (725 psi) AD: 20 bar (290 psi)
Seat seal	EPDM (Alu version) FPM (SS version)	Leak rate	10 ⁻⁷ mbar ℓ/s He	Outlet pressure	1/3/10 bar 14.5/44/145 psi AD: 1,5 bar (21.75 psi)
O-ring	EPDM (Alu version) FPM (SS version) NBR	Temperature range	-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
Valve Diaphragm	Hastelloy®	Gauges	Low pressure (M10 x 1)	Oxygen use	inlet pressure ≤ 30 bar max. for aluminum and stainless steel
Bellow	Bronze (Alu version) or AISI 316L (SS version)				

FLOW CURVES



PRODUCT CONFIGURATOR

		Body Material		Outlet Pressure		End Connections		O-ring Material		Orientation	
M	S	A	40	10	1	G	G	EPDM	V	V	V
		Aluminum	A	1 bar 14.5 psi	1	G ¼ - Female	G	EPDM - standard (Aluminum version)	Vertical		V
		Stainless steel	I	3 bar 44 psi	3	¼ NPT - Female	N	FPM - standard (SS version)	Horizontal		H
				10 bar 145 psi	10			NBR			
				Acetylene version 1,5 bar 21.75 psi	AD						

SERIES S 20 AD | LINE REGULATOR FOR ACETYLENE (C₂H₂)

- Bellow single stage
- Purity up to 6.0
- Inlet pressure:
20 bar (290 psi)
- Outlet pressure:
1,5 bar (21.75 psi)

- ★ Accurate pressure delivery
- ★ Compact design
- ★ 2 inlets / 2 outlets
- ★ Rear inlet
for panel mounting
- ★ Acetylene applications

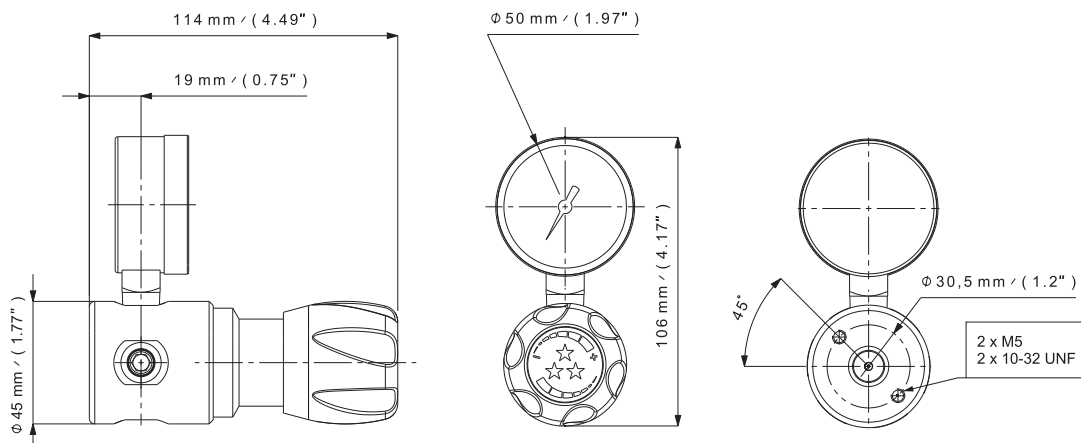
Special requirements on request

APPLICATIONS

- The Series S 20 AD is used as line regulator or point of use for acetylene applications such as atomic absorption analyzers.

KEY FEATURES

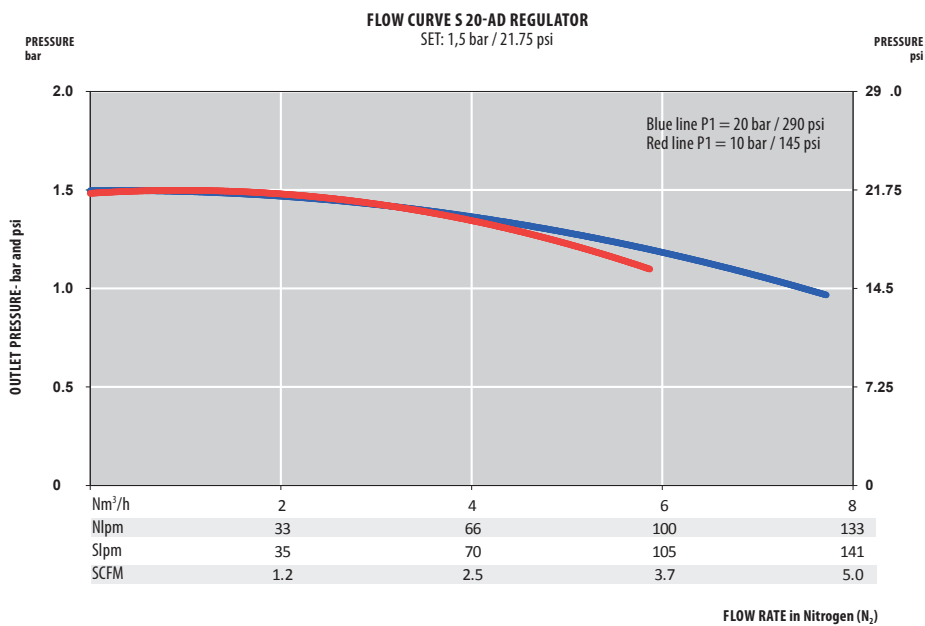
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- With its compact design, the rear threads and its fixing ring (option) it can be used for wall or panel mounting.
- Multiple mounting positions possible due to multiple inlet ports.
- For use with acetylene: this product must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream.



SPECIFICATIONS

Female ports	G 3/8 or 1/4 NPT (inlet/outlet)	Weight	± 0,5 kg ± 1.1 lbs	Inlet pressure	20 bar 290 psi
Seat seal	EPDM	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1,5 bar 21.75 psi
O-ring	EPDM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	1,5 Nm ³ /h (C ₂ H ₂)
Bellow	AISI 316L	Gauges	Low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	No

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		End Connections		Gauges		Ports Configuration		Mounting			
S	L	20	AD	G	EPDM	1	A	FR0			
Chrome plated brass	L			G 3/8 - G 3/8	G	Without	0	Standard Configuration	A	Without Fixing Ring	FR0
				1/4 NPT - 1/4 NPT	N	With	1	Reverse inlet/outlet	R	With Fixing Ring	FR1

SERIES S 25 AD | CYLINDER REGULATOR FOR ACETYLENE (C₂H₂)

- Bellow single stage
- Purity up to 6.0
- Inlet pressure:
20 bar (290 psi)
- Outlet pressure:
1,5 bar (21.75psi)

- ★ Accurate pressure delivery
- ★ Compact design
- ★ 1 inlet / 2 outlets
- ★ Rear Inlet with cylinder connection
- ★ Acetylene applications

Special requirements on request

APPLICATIONS

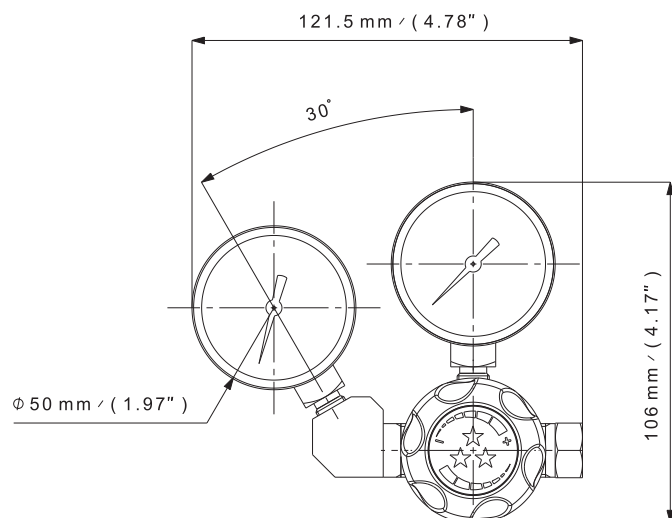
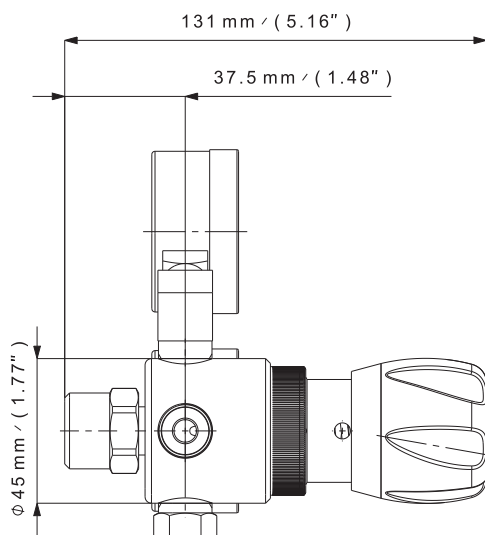
- Used as a cylinder regulator for acetylene applications such as atomic absorption analyzers.

KEY FEATURES

- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- The Series S 25 could be equipped with several cylinder connection types.
- 2 gauges for high and low pressure.
- For use with acetylene, this product must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream.



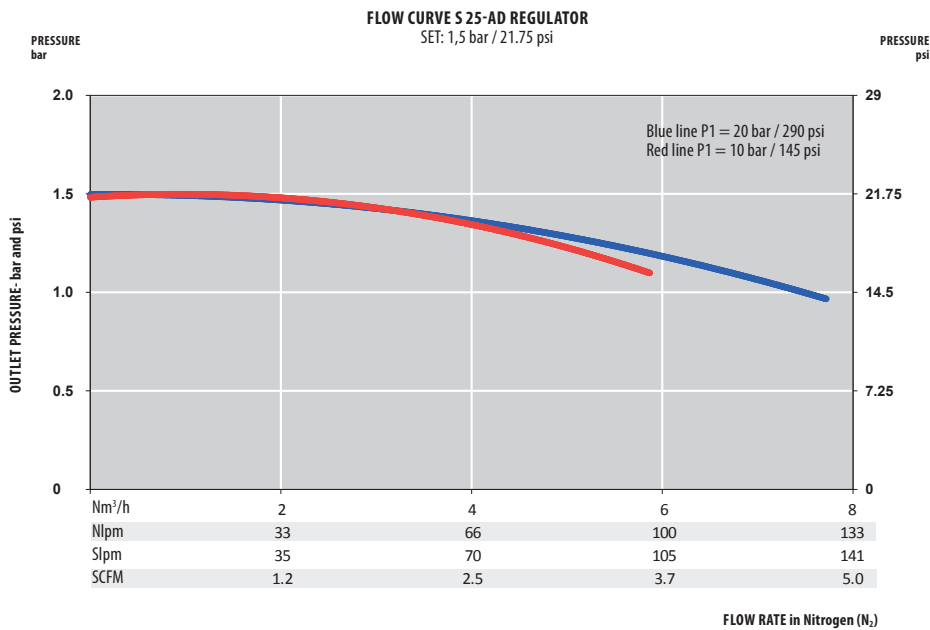
Right view



SPECIFICATIONS

Inlet ports	C ₂ H ₂ Cylinder connection in accordance to standard	Weight	± 0,5 kg ± 1.1 lbs	Inlet pressure	20 bar 290 psi
Outlet ports	G 3/8 or 1/4 NPT	Leak rate	10 ⁻⁸ mbar ℓ/s He	Outlet pressure	1,5 bar 21.75 psi
Seat seal	EPDM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	1,5 Nm ³ /h (C ₂ H ₂)
O-ring	EPDM	Gauges	High / Low pressure (M10 x 1 or 1/4 NPT)	Oxygen use	No
Bellow	AISI 316L				

FLOW CURVES



PRODUCT CONFIGURATOR

				Inlet Connection		Outlet Connection		Gauges		Mounting		
S	L	25	AD	H		G		EPDM	1		FRO	
				AFNOR H Type (cylind. connect.)	H	G 3/8	G		Without high and low pressure gauges	0	Without Fixing Ring	FRO
				British Standard	BS4	1/4 NPT	N		With high and low pressure gauges	1	With Fixing Ring	FR1
				CGA Standard	510							
				DIN Standard	477-12							

SERIES S 75 | CONSTANT FLOW REGULATOR

- Piston single stage
- Purity up to 6.0
- Inlet pressure: 200 bar (2900 psi)
- Outlet pressure: 3,5/6 bar (50/87 psi)
- Rear inlet
- Flow selector (0,3 - 15 lpm)

- ★ Extremely accurate flow delivery
- ★ Compact design
- ★ 1 inlet / 1 outlet
- ★ O₂ application compatible (brass only)

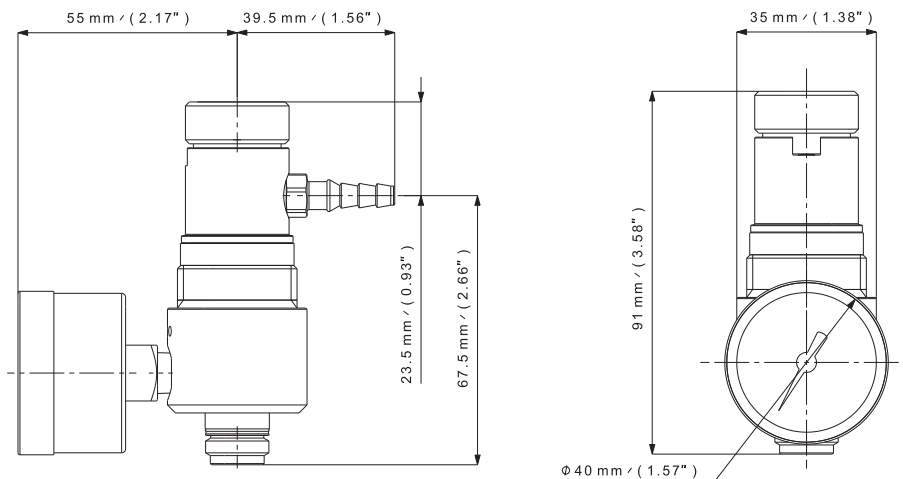
Special requirements on request

APPLICATIONS

- Designed for calibration applications where predetermined pressure and adjustable flow are required, and for portable cylinder use.

KEY FEATURES

- Piston technology allows having a very stable flow outlet pressure.
- Equipped with a flow selector (10 positions) with 3 different maximum outlet flows (3 - 5 - 15 lpm).
- Compact, light weight design, ideal for portability.
- Integrated relief valve.



SPECIFICATIONS

Female ports	Inlet: C 10 or ¼ NPT Outlet: Hose barb or DR 6 or ¼" tube fitting	Weight	± 0,70 kg ± 1.54 lbs	Inlet pressure	200 bar 2900 psi
Seat seal	PCTFE	Leak rate	10 ⁻⁴ mbar ℓ/s He	Outlet pressure	3,5 bar (50 psi) - standard 6 bar (87 psi) - option
O-ring	FPM - Standard EPDM NBR	Temperature range	-20°C to +60°C -4°F to +140°F	Nominal Flow	Preset from 0,3 to 15 lpm
Piston	Brass (brass version) AISI 316L (SS version)	Gauges	High pressure (⅛ NPT)	Oxygen use	Brass only

NOMINAL FLOW SETTINGS (lpm)

B03	B05	B15
0,3	0,5	1
0,5	0,75	1,5
0,7	1	2
0,9	1,5	3
1,2	2	4
1,5	2,5	5
2	3	8
2,5	4	10
3	5	15



PRODUCT CONFIGURATOR

S	Body Material		75	Outlet Pressure		Inlet Connection		Outlet Connection		Flow Selector		O-ring Material	Gauge	
	L			3.5	3.5	C10		HB		B05	FPM	1		
	Nickel plated brass	L	3.5 bar 50 psi - standard	3.5	5/8" x 18 UNF	C10	Hose barb (standard)	HB	3 lpm	B03	FPM - standard	Without	0	
	Stainless steel	I	6 bar 87 psi	6	¼ NPT	N	G ⅜ - Female	G1	5 lpm - standard	B05	EPDM	With 4000 psi	1	
							6 mm tube fitting	DB6	15 lpm	B15	NBR	With 315 bar	2	
							¼ tube fitting	DB ¼						

SERIES S 70 / D 70 | CONSTANT FLOW REGULATOR

- Piston single stage
- Purity up to 6.0
- Inlet pressure: 200 bar (2900 psi)
- Outlet pressure: 4,13 bar (60 psi)
- 1 inlet / 1 outlet
- Rear inlet

- ★ Extreme accurate flow delivery
- ★ Compact design
- ★ 1 inlet / 1 outlet
- ★ O₂ application compatible

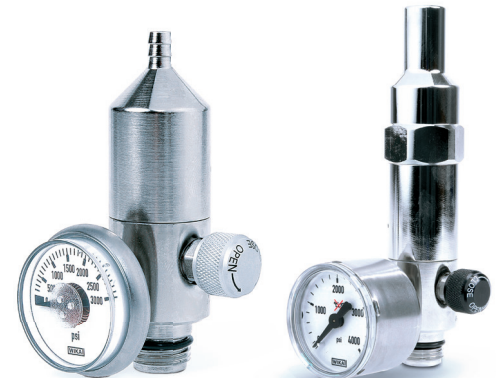
Special requirements on request

APPLICATIONS

- Designed for calibration applications where predetermined pressure and flow are required, and for portable cylinder use.

KEY FEATURES

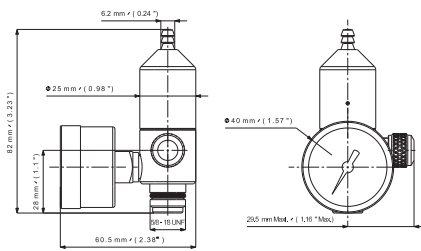
- This piston regulator has 1 inlet/1 outlet.
- Exist as single (S 70) or dual stage (D 70 special version).
- Compact, light weight design, ideal for portability.
- Hand tightened assembly to cylinder is excellent for field applications.
- Actuation with control knob or push button.
- Please indicate, on any order, the maximum inlet pressure, the setting pressure and the set flow.



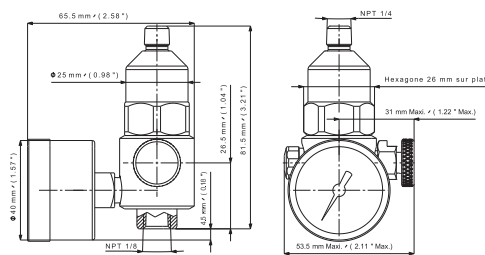
S70 single stage

D70 dual stage

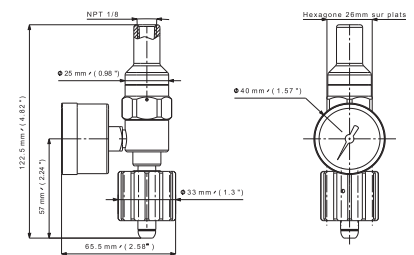
CK - CONTROL KNOB



PB - PUSH BUTTON



NV - NO VALVE



SPECIFICATIONS

Female ports	Inlet: C10 or 1/8 NPT Outlet: Hose barb or 1/8 NPT	Weight	± 0,31 kg ± 0.83 lbs	Inlet pressure	200 bar 2900 psi
Seat seal	PCTFE	Leak rate	1.10 ⁻⁴ mbar ℓ/s He	Outlet pressure	4,13 bar (60 psi) - standard 2,06 bar (30 psi) - option
O-ring	FPM - Standard EPDM NBR	Temperature range	-20°C to + 60°C -4°F to + 140°F	Nominal Flow	preset from 0,25 to 7 lpm
Piston	Brass (brass version) AISI 303 (SS version)	Gauges	High pressure 1/8 NPT	Oxygen use	OK for brass and stainless steel
Actuation	Control knob or Push button				

PRODUCT CONFIGURATOR

Body Material		Outlet Pressure	Inlet Connection	Outlet Connection	Actuation	O-ring Material	Gauge					
S	L	70	60	C10	HB	FPM	1					
Nickel plated brass	L	4,13 bar (60 psi) - standard	60	5/8" x 18 UNF	C10	Hose barb	HB	Control Knob standard	CK	FPM standard	Without	0
Stainless steel	I	2,06 bar (30 psi)	30	1/8 NPT - Female	N	1/8 NPT - Female	N1	Push Button	PB	EPDM	With 1000 psi	1
						1/8 NPT - Male	N2	No valve	NV	NBR	With 3000 psi	2
											With 4000 psi	3
											With 315 bar	4

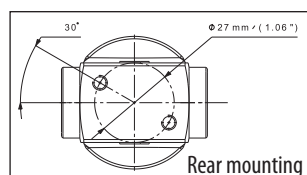
SERIES VP 300 | LINE VALVE

- 300 bar line valve
- Multi-turn, non-turning seat disc for various pure gases (special oxygen version available)

LINE VALVE

- ★ 300 bar
- ★ Multi-turn
- ★ Special oxygen version

Special requirements on request

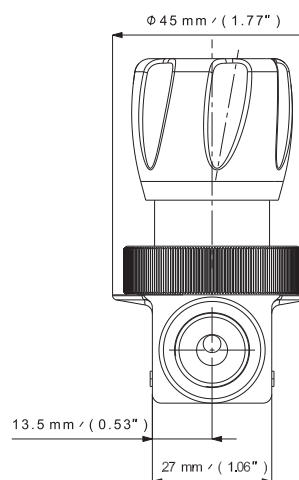
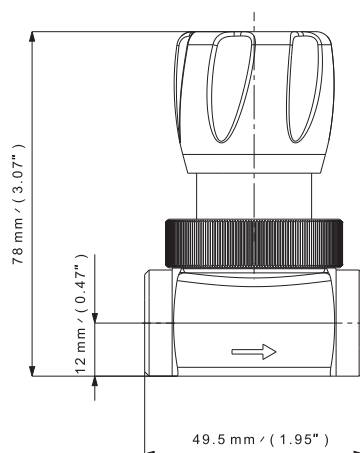


KEY FEATURES

- Purity up to 5.5
- Multi-turn version
- Raw brass or chrome plated brass
- Special oxygen version
- Standard inlet/outlet: G 3/8 - Female
- Fixing ring for flush-mounting in panel
- Rear thread for panel mounting

OPTIONS

- Various inlet/outlet connections including F: 3/8 NPT, double ring 6 mm
- Many inlet/outlet fittings available



SPECIFICATIONS

Female ports	G 3/8 (inlet/outlet) OR 3/8 NPT (inlet/outlet)	Leak rate	1.10 ⁻⁴ mbar ℓ/s He	Inlet pressure	300 bar 4350 psi
Seat seal	Polyamide	Temperature range	-20°C to +50°C -4°F to +122°F	Flow coefficient	Cv 0.30 Kv 0,26
O-ring	EPDM	Seat orifice size	Ø 4 mm	1/4 turn handwheel	No
Bottom tapered	OK			Multi-turn handwheel	OK
Weight	± 0,38 kg ± 0.84 lbs			Oxygen use	Special O ₂ version

PRODUCT CONFIGURATOR

V	P	Body Material		300	End Connections		Oxygen Version	
		L	LB		G	G	STD	STD
		Raw brass	LB		G 3/8 - Female	G	Standard	STD
		Chrome plated brass	L		3/8 NPT - Female	N	Oxygen use	O ₂

SERIES VD | DIAPHRAGM LINE VALVE

- Low to high-pressure line valves for various pure gas
- High leak tightness through diaphragm sealing
- a consistent design for all versions

SHUT-OFF VALVE

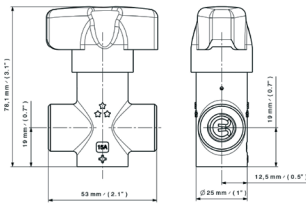
- ★ From 50 to 300 bar inlet pressure
- ★ Diaphragm seal
- ★ ¼ turn handwheel
- ★ O₂ compatible

KEY FEATURES

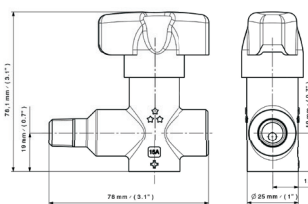
- For gas purity up to 6.0
- Hastelloy® diaphragm for tightness and gas compatibility
- ¼ turn ergonomic handwheel
- Chrome-plated brass or stainless steel
- 3 versions : 50, 200 and 300bar inlet working pressure
- 3 orientations : female-female, male-female, female-male
- Available with 1/4NPT or G3/8 connections
- With rear threads for panel mounting



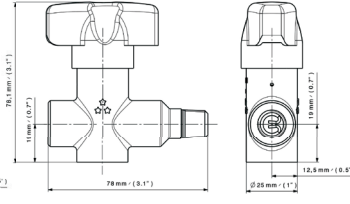
¼ NPT FF & G³/₈" FF



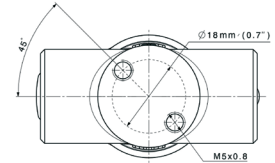
¼ NPT MF



¼ NPT FM



REAR MOUNTING



SPECIFICATIONS

Ports	¼ NPT : FF, MF or FM G ³ / ₈ : FF, MF or FM	Weight	310g	Inlet pressure	50 / 200 / 300 bar
Seat seal	PCTFE	Leak rate	10 ⁻⁸ mbar l/s He	Flow coefficient (Kv)	0,17 Kv / 0,2 Cv
Diaphragm	Hastelloy®	Temperature range	-20° to +60 °C	Oxygen use	Ok up to 310 bar (brass version only)
Bottom tapered	OK 2x M5 at Ø18mm	Seat orifice size	Ø 4mm		

PRODUCT CONFIGURATOR

V	Body Material		D	Inlet Pressure		Orientation		Connection		Handwheel	
	B	D		50	200	FF	MF	N	G	¼T	¼T
	Chrome plated brass	B		50 bar	50	Female:Female	FF	¼NPT	N	¼ turn	¼T
				200 bar	200	Male - Female	MF	G ³ / ₈	G		
				310 bar	310	Female - Male	FM				

SERIES VLM | LINE VALVE

- Low-pressure shut off valve for various pure gases.
- High leak tightness through diaphragm sealing.

SHUT-OFF VALVE

- ★ Low-pressure
- ★ Diaphragm seal
- ★ Straight or 90° version
- ★ O₂ application compatible (see technical data)

Special requirements on request

KEY FEATURES

- Purity up to 6.0
- «Straight» version (VLM 20 D / VIM 20 D)
- «Right-angle» version (VLM 20 E / VIM 20 E)
- «Wall-mounted» version (VLM 20 M / VIM 20 M)
- «Panel» version (VLM 20 T / VIM 20 T)
- Rear thread for panel mounting (VLM 20 E / VIM 20 E)

OPTIONS

- ¼ turn version
- M: G ¾" inlet (VLM 20 D / VIM 20 D)
- Panel mounting board
- Point of use regulator
- Many inlet / outlet fittings available



SPECIFICATIONS

Seat seal	PCTFE / EPDM	Weight	± 0,95 kg ± 2.10 lbs	Flow coefficient	Cv 0.14 Kv 0,12
O-ring	EPDM - Standard NBR FPM	Leak rate	10 ⁻⁸ mbar ℓ/s He	Inlet pressure	50 bar 725 psi
Bottom tapered	OK	Temperature range	-20°C to + 50°C -4°F to + 122°F	Ports	G ¾" (inlet/outlet)
Diaphragm	Hastelloy®	Seat orifice size	Ø 4 mm	Oxygen use	Brass: OK Stainless steel: only E / M versions with side inlet

PRODUCT CONFIGURATOR

V	Body Material		Version		End Connections		O-ring Material	Hand wheel	
	LM20	IM20	M	D	G	G	EPDM	¼ T	¼
	Chrome plated brass	LM20	straight	D	G ¾"	G	EPDM - standard	¼ turn	¼
	Stainless steel	IM20	right angle with plate	E M	¼ NPT on demand	N	NBR FPM	Multi-turn	MT

SERIES VM 45 | LINE VALVE

- Low-pressure line valve for various pure gases.
- High leak tightness through diaphragm sealing and high flow through 8mm orifice.

SHUT-OFF VALVE

- ★ Low-pressure
- ★ High flow
- ★ Diaphragm seal
- ★ Multi-turn or ¼ turn
- ★ O₂ application compatible

Special requirements on request

KEY FEATURES

- Purity up to 6.0
- Multi-turn or ¼ turn versions
- Chrome plated brass or stainless steel
- Standard inlet/outlet: G ¾ - Female
- Fixing ring for flush-mounting in panel
- Rear thread for panel mounting

OPTIONS

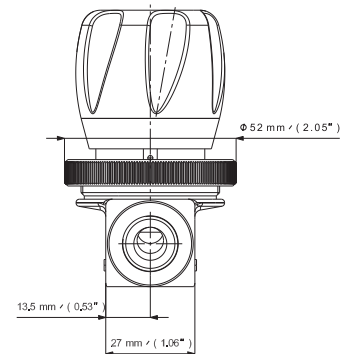
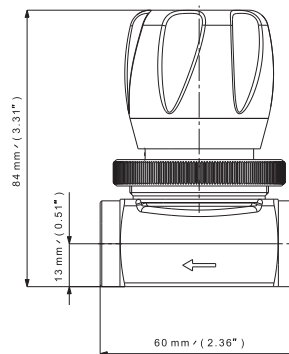
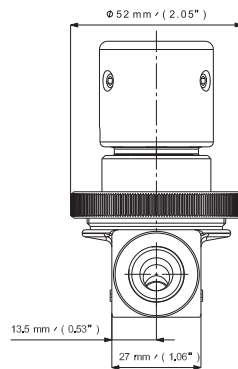
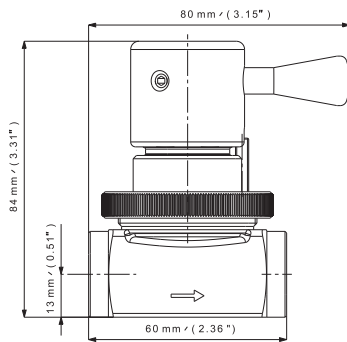
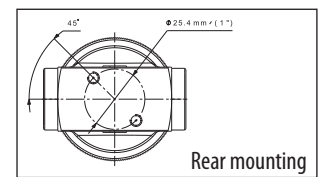
- Choice of two inlet/outlet connections available (see configurator)



¼ turn version



Multi-turn version



SPECIFICATIONS

Female ports	G ¾ or ¼ NPT (inlet/outlet)	Leak rate	10 ⁻⁸ mbar ℓ/s He	Inlet pressure	45 bar 650 psi
Seat seal	PCTFE	Temperature range	-20°C to +50°C -4°F to +122°F	Flow coefficient	Cv 0.58 Kv 0.50
Diaphragm	Hastelloy®	Seat orifice size	Ø 8 mm	Oxygen use	OK for brass and stainless steel
Bottom tapered	OK				
Weight	± 0,75 kg ± 1.65 lbs				

PRODUCT CONFIGURATOR

V	Body Material		M	45	End Connections		Hand wheel	
	L	I			G	N	¼ T	¼ T
	Chrome plated brass	L			G ¾ - Female	G	¼ turn	¼ T
	Stainless steel	I			¼ NPT - Female	N	Multi turn	MT

RD 10 | METERING VALVE

- Needle valve for various pure gases.
- This metering valve has a very precise flow setting and is ideally suited for use on regulators outlet.

NEEDLE VALVE

- ★ Low-pressure
- ★ With needle
- ★ Multi-turn

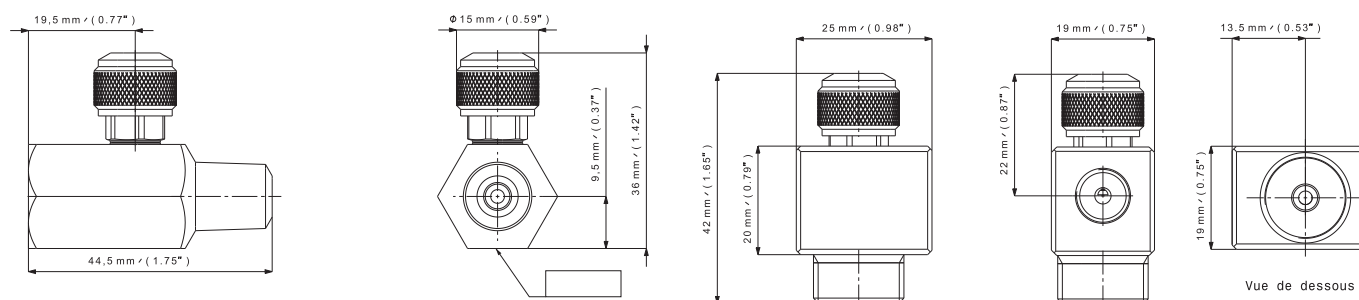
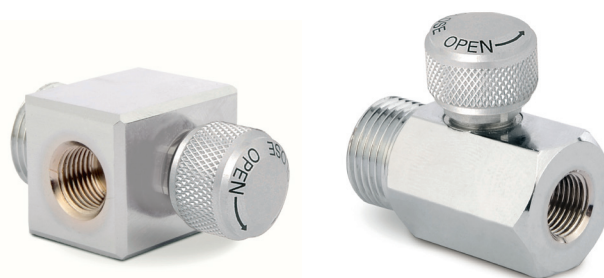
Special requirements on request

KEY FEATURES

- Purity up to 6.0
- Multi-turn version
- Straight or right angle versions
- Chrome plated brass or stainless steel
- Small size
- Low torque operation
- Very precise setting
- Delivered with light grey handwheel
- Not to be used as a shut off valve

OPTIONS

- Many inlet/outlet fittings available
- NBR or FPM O-ring
- For acetylene use, this valve must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream



SPECIFICATIONS

Ports	Male inlet : G 3/8 or 1/4 NPT Female outlet: G 1/8 or 1/4 NPT	Max of turns open for max flow	3 turns	Inlet pressure	60 bar 870 psi
Seat seal	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	EPDM - Standard NBR FPM	Temperature range	-20°C to + 50°C -4°F to + 122°F	Oxygen use	OK with P1=30 bar max
Bottom tapered	No	Seat orifice size	Ø 2,5 mm		

PRODUCT CONFIGURATOR

Body Material		RD	10	End Connections		Version		O-ring Material
L	I			G		D	E	EPDM
Chrome plated brass	L			In: G 3/8 - Male Out: G 1/8 - Female	G	Straight	D	EPDM - standard
Stainless steel	I			In: 1/4 NPT - Male Out: 1/4 NPT - Female	N	Right angle	E	NBR
				In: G 3/8 - Male Out: 1/4 NPT - Female	GN			FPM
				In: 1/4 NPT - Male Out: G 1/8 - Female	NG			

PRESSURE GAUGES

Spare part pressure gauges for ROTAREX regulators, points of use, supply boards or switch over boards

PRESSURE GAUGES

- ★ Standard or contact versions available
- ★ Vertical or rear mounting connections

Special requirements on request

KEY FEATURES

- Standard or contact gauge
- Vertical (6 o'clock) or rear mounting
- Connections:
M10 x 1 - Male, ¼ NPT - Male or G ¼ - Male
- Many pressure ranges available
- Material: cuprous alloy or stainless steel
- Accuracy class: 1,6 (standard gauge)
- Nominal diameter: Ø 63/50/40/36 mm

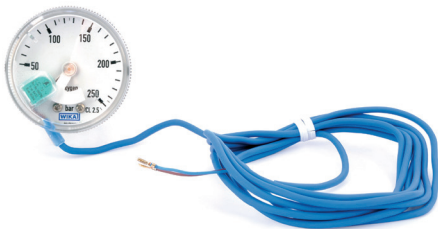
OPTIONS

- Different connections
- Different diameters

Inductive contact gauge

- Normally Open (NO)
- Accuracy class: 2,5
- Adjustment by twisting of contact hood
- Contact-free "contact release" without wear
- Cable length 2 m, cable outlet right-hand
- Compatible with explosive or combusive gases

CONTACT VERSION



Available with vertical or rear mounting connections (normally open)

VERTICAL MOUNTING CONNECTION (6 o'clock)



REAR MOUNTING CONNECTION



STANDARD PRESSURE GAUGES

Ø63

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø63	0 + 1,5 + 2,5 bar	Cuprous alloy	Vertical	M10 x 1	No	33333333756
Ø63	0 + 10 + 16 bar	Cuprous alloy	Vertical	M10 x 1	No	290002990001
Ø63	0 + 10 + 16 bar	Cuprous alloy	Vertical	M10 x 1	No	33333333757
Ø63	0 + 27 + 40 bar	Cuprous alloy	Vertical	M10 x 1	No	On demand
Ø63	0 + 200 + 315 bar	Cuprous alloy	Vertical	M10 x 1	No	290002990000
Ø63	0 + 200 + 315 bar	Cuprous alloy	Vertical	M10 x 1	No	On demand
Ø63	0 + 0,6 bar	Cuprous alloy	Vertical	G ¼	No	On demand
Ø63	0 + 1,5 + 2,5 bar	Cuprous alloy	Vertical	G ¼	No	On demand
Ø63	0 + 4,2 + 6 bar	Cuprous alloy	Vertical	G ¼	No	On demand
Ø63	0 + 4,2 + 6 bar	Cuprous alloy	Vertical	G ¼	No	292800990003
Ø63	0 + 10 + 16 bar	Cuprous alloy	Vertical	G ¼	No	292822990000
Ø63	0 + 10 + 16 bar	Cuprous alloy	Vertical	G ¼	No	290204990001
Ø63	0 + 27 + 40 bar	Cuprous alloy	Vertical	G ¼	No	On demand
Ø63	0 + 27 + 40 bar	Cuprous alloy	Vertical	G ¼	No	On demand
Ø63	0 + 27 + 40 bar	Cuprous alloy	Vertical	G ¼	No	On demand
Ø63	0 + 200 + 315 bar	Cuprous alloy	Vertical	G ¼	No	On demand
Ø63	0 + 200 + 315 bar	Cuprous alloy	Vertical	G ¼	No	On demand
Ø63	0 + 27 + 40 bar	Cuprous alloy	Vertical	M10 x 1	No	On demand
Ø63	0 + 10 + 16 bar	Cuprous alloy	Rear	½ NPT	No	On demand
Ø63	0 + 0,4 bar	Stainless steel	Vertical	G ¼	No	On demand
Ø63	0 + 0,14 + 0,20 bar	Stainless steel	Vertical	¼ NPT	No	333333334547

Ø50 M10 X 1 MALE VERTICAL FOR BRASS REGULATOR

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	0 + 0,1 + 0,16 bar	Cuprous alloy	Vertical	M10 x 1	No	360025990000
Ø50	-1 + 1 + 1,5 bar	Cuprous alloy	Vertical	M10 x 1	No	320000990020
Ø50	-1 + 1,5 + 2,5 bar	Cuprous alloy	Vertical	M10 x 1	No	360026990000
Ø50	-1 + 3 + 5 bar	Cuprous alloy	Vertical	M10 x 1	No	360003990002
Ø50	-1 + 4 + 6 bar	Cuprous alloy	Vertical	M10 x 1	No	333333334879
Ø50	-1 + 8 + 12 bar	Cuprous alloy	Vertical	M10 x 1	No	299121990000
Ø50	-1 + 10 + 15 bar	Cuprous alloy	Vertical	M10 x 1	No	299108990002
Ø50	0 + 16 + 25 bar	Cuprous alloy	Vertical	M10 x 1	No	299091990001
Ø50	0 + 30 + 40 bar	Cuprous alloy	Vertical	M10 x 1	No	320203990000
Ø50	0 + 40 + 60 bar	Cuprous alloy	Vertical	M10 x 1	No	301200990002
Ø50	0 + 70 + 100 bar	Cuprous alloy	Vertical	M10 x 1	No	300602990003
Ø50	0 + 200 + 315 bar	Cuprous alloy	Vertical	M10 x 1	No	360000990007
Ø50	0 + 300 + 400 bar	Cuprous alloy	Vertical	M10 x 1	No	350000990004

Ø50 M10 X 1 MALE VERTICAL FOR STAINLESS STEEL REGULATOR

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	-1 + 1 + 1,5 bar	Stainless steel	Vertical	M10 x 1	No	360031990000
Ø50	-1 + 2 + 3 bar	Stainless steel	Vertical	M10 x 1	No	333333332860
Ø50	-1 + 3 + 5 bar	Stainless steel	Vertical	M10 x 1	No	320200990004
Ø50	-1 + 4 + 6 bar	Stainless steel	Vertical	M10 x 1	No	300800990004
Ø50	-1 + 6 + 9 bar	Stainless steel	Vertical	M10 x 1	No	333333332665
Ø50	-1 + 8 + 12 bar	Stainless steel	Vertical	M10 x 1	No	360029990000
Ø50	-1 + 10 + 15 bar	Stainless steel	Vertical	M10 x 1	No	299174990002
Ø50	0 + 16 + 25 bar	Stainless steel	Vertical	M10 x 1	No	360030990000
Ø50	0 + 30 + 40 bar	Stainless steel	Vertical	M10 x 1	No	299108990000
Ø50	0 + 40 + 60 bar	Stainless steel	Vertical	M10 x 1	No	333333333637
Ø50	0 + 70 + 100 bar	Stainless steel	Vertical	M10 x 1	No	300600990012
Ø50	0 + 200 + 315 bar	Stainless steel	Vertical	M10 x 1	No	300600990005
Ø50	0 + 300 + 400 bar	Stainless steel	Vertical	M10 x 1	No	300600990011

STANDARD PRESSURE GAUGES (continued)

Ø50 M10 X 1 MALE WITH REAR CONNECTION FOR BRASS PANEL

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	0 + 0,1 + 0,16 bar	Cuprous alloy	Rear	M10 x 1	No	On demand
Ø50	-1 + 1 + 1,5 bar	Cuprous alloy	Rear	M10 x 1	No	333333334018
Ø50	-1 + 1,5 + 2,5 bar	Cuprous alloy	Rear	M10 x 1	No	On demand
Ø50	-1 + 3 + 5 bar	Cuprous alloy	Rear	M10 x 1	No	320200990006
Ø50	-1 + 10 + 15 bar	Cuprous alloy	Rear	M10 x 1	No	390000990030
Ø50	0 + 16 + 25 bar	Cuprous alloy	Rear	M10 x 1	No	360015990001
Ø50	0 + 30 + 40 bar	Cuprous alloy	Rear	M10 x 1	No	299178990025
Ø50	0 + 30 + 40 bar	Cuprous alloy	Rear	M10 x 1	No	390093990001
Ø50	0 + 70 + 100 bar	Cuprous alloy	Rear	M10 x 1	No	360015990000
Ø50	0 + 200 + 315 bar	Cuprous alloy	Rear	M10 x 1	No	299178990024
Ø50	0 + 300 + 400 bar	Cuprous alloy	Rear	M10 x 1	No	299216990005

Ø50 M10 X 1 MALE WITH REAR CONNECTION FOR STAINLESS STEEL PANEL

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	-1 + 1 + 1,5 bar	Stainless steel	Rear	M10 x 1	No	On demand
Ø50	-1 + 3 + 5 bar	Stainless steel	Rear	M10 x 1	No	333333332251
Ø50	-1 + 8 + 12 bar	Stainless steel	Rear	M10 x 1	No	299182990003
Ø50	-1 + 10 + 15 bar	Stainless steel	Rear	M10 x 1	No	390000990031
Ø50	0 + 16 + 25 bar	Stainless steel	Rear	M10 x 1	No	390000990019
Ø50	0 + 30 + 40 bar	Stainless steel	Rear	M10 x 1	No	299111990002
Ø50	0 + 70 + 100 bar	Stainless steel	Rear	M10 x 1	No	333333334599
Ø50	0 + 200 + 315 bar	Stainless steel	Rear	M10 x 1	No	390000990020

Ø50 ¼ NPT MALE VERTICAL FOR BRASS REGULATOR

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	0 + 0,10 + 0,16 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	0 + 0,14 + 0,20 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	-1 + 1 + 1,5 bar	Cuprous alloy	Vertical	¼ NPT	No	320000990023
Ø50	-1 + 1,5 + 2,5 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	-1 + 3 + 5 bar	Cuprous alloy	Vertical	¼ NPT	No	320401990000
Ø50	-1 + 8 + 15 bar	Cuprous alloy	Vertical	¼ NPT	No	320401990000
Ø50	-1 + 10 + 15 bar	Cuprous alloy	Vertical	¼ NPT	No	33333333279
Ø50	0 + 16 + 25 bar	Cuprous alloy	Vertical	¼ NPT	No	33333333469
Ø50	0 + 30 + 40 bar	Cuprous alloy	Vertical	¼ NPT	No	33333333513
Ø50	0 + 40 + 60 bar	Cuprous alloy	Vertical	¼ NPT	No	293500990001
Ø50	0 + 70 + 100 bar	Cuprous alloy	Vertical	¼ NPT	No	33333333514
Ø50	0 + 200 + 315 bar	Cuprous alloy	Vertical	¼ NPT	No	360001990003
Ø50	0 + 300 + 400 bar	Cuprous alloy	Vertical	¼ NPT	No	350002990001

Ø50 ¼ NPT MALE VERTICAL FOR STAINLESS STEEL REGULATOR

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	1 + 1 + 1,5 bar	Stainless steel	Vertical	¼ NPT	No	333333334261
Ø50	-1 + 3 + 5 bar	Stainless steel	Vertical	¼ NPT	No	320301990000
Ø50	-1 + 8 + 15 bar	Stainless steel	Vertical	¼ NPT	No	320501990001
Ø50	-1 + 10 + 15 bar	Stainless steel	Vertical	¼ NPT	No	333333334160
Ø50	0 + 16 + 25 bar	Stainless steel	Vertical	¼ NPT	No	330011990000
Ø50	0 + 30 + 40 bar	Stainless steel	Vertical	¼ NPT	No	330012990000
Ø50	0 + 40 + 60 bar	Stainless steel	Vertical	¼ NPT	No	On demand
Ø50	0 + 70 + 100 bar	Stainless steel	Vertical	¼ NPT	No	330013990001
Ø50	0 + 200 + 315 bar	Stainless steel	Vertical	¼ NPT	No	330013990000
Ø50	0 + 300 + 400 bar	Stainless steel	Vertical	¼ NPT	No	On demand

STANDARD PRESSURE GAUGES (continued)

Ø50 ¼ NPT MALE VERTICAL FOR BRASS REGULATOR

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	0 + 1,5 + 2,5 bar	Cuprous alloy	Vertical	¼ NPT	No	292900990010
Ø50	0 + 1,6 + 2,5 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	0 + 6 + 10 bar	Cuprous alloy	Vertical	¼ NPT	No	33333333447
Ø50	0 + 10 + 16 bar	Cuprous alloy	Vertical	¼ NPT	No	292800990015
Ø50	0 + 10 + 16 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	0 + 10 + 16 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	0 + 10 + 16 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	0 + 16 + 25 bar	Cuprous alloy	Vertical	¼ NPT	No	33333334343
Ø50	0 + 27 + 40 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	0 + 27 + 40 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	0 + 40 + 60 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	0 + 70 + 100 bar	Cuprous alloy	Vertical	¼ NPT	No	33333334344
Ø50	0 + 240 + 315 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	0 + 300 + 400 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	0 + 300 + 400 bar	Cuprous alloy	Vertical	¼ NPT	No	On demand
Ø50	0 + 300 + 400 bar	Cuprous alloy	Vertical	¼ NPT	No	299174990008

Ø50 M10 X 1 MALE WITH REAR CONNECTION FOR BRASS PANEL

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	0 + 1,5 + 2,5 bar	Cuprous alloy	Rear	¼ NPT	No	On demand
Ø50	0 + 1,6 + 2,5 bar	Cuprous alloy	Rear	¼ NPT	No	299178990032
Ø50	0 + 4 + 6 bar	Cuprous alloy	Rear	¼ NPT	No	On demand
Ø50	0 + 10 + 16 bar	Cuprous alloy	Rear	¼ NPT	No	On demand
Ø50	0 + 10 + 16 bar	Cuprous alloy	Rear	¼ NPT	No	299157990012
Ø50	0 + 16 + 25 bar	Cuprous alloy	Rear	¼ NPT	No	202511990002
Ø50	0 + 30 + 40 bar	Cuprous alloy	Rear	¼ NPT	No	33333332373
Ø50	0 + 30 + 40 bar	Cuprous alloy	Rear	¼ NPT	No	On demand
Ø50	0 + 40 + 60 bar	Cuprous alloy	Rear	¼ NPT	No	33333333804
Ø50	0 + 70 + 100 bar	Cuprous alloy	Rear	¼ NPT	No	299170990006
Ø50	0 + 200 + 315 bar	Cuprous alloy	Rear	¼ NPT	No	202520990028
Ø50	0 + 240 + 315 bar	Cuprous alloy	Rear	¼ NPT	No	On demand

Ø50 ¼ FEMALE METAL FACE SEAL VERTICAL FOR STAINLESS STEEL REGULATOR

Diameter	Scale	Material	Connection	Female thread	Contact	KIT part number
Ø50	-1 + 11 + 15 bar	Stainless steel	Vertical	¼ face seal	No	On demand
Ø50	0 + 187 + 250 bar	Stainless steel	Vertical	¼ face seal	No	33333333875

Ø50 ¼ MALE METAL FACE SEAL REAR CONNECTION FOR STAINLESS STEEL PANEL

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	0 + 10 + 14 bar	Stainless steel	Rear	¼ face seal	No	On demand
Ø50	0 + 16 + 25 bar	Stainless steel	Rear	¼ face seal	No	On demand
Ø50	0 + 310 + 414 bar	Stainless steel	Rear	¼ face seal	No	On demand

Ø50 ⅜ NPT MALE REAR CONNECTION FOR BRASS PANEL

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	0 + 800 psi	Cuprous alloy	Rear	⅜ NPT	No	On demand
Ø50	0 + 27 + 36 psi	Cuprous alloy	Rear	⅜ NPT	No	On demand
Ø50	0 + 440 + 580 psi	Cuprous alloy	Rear	⅜ NPT	No	33333333499
Ø50	0 + 3400 + 4568 psi	Cuprous alloy	Rear	⅜ NPT	No	On demand
Ø50	0 + 200 + 315 bar	Cuprous alloy	Rear	⅜ NPT	No	390087990005

STANDARD PRESSURE GAUGES (continued)

Ø50 1/8 NPT MALE REAR CONNECTION FOR STAINLESS STEEL PANEL

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	0 + 200 + 315 bar	Stainless steel	Rear	1/8 NPT	No	33333333434

Ø40

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø40	0 + 240 + 315 bar	Cuprous alloy	Vertical	G 1/4	No	On demand
Ø40	0 + 200 + 315 bar	Cuprous alloy	Vertical	G 1/8	No	On demand
Ø40	0 + 200 + 315 bar	Cuprous alloy	Vertical	G 1/8	No	On demand
Ø40	0 + 200 + 315 bar	Cuprous alloy	Vertical	G 1/8	No	33333333881
Ø40	0 + 300 + 400 bar	Cuprous alloy	Vertical	G 1/8	No	On demand
Ø40	0 + 200 + 315 bar	Cuprous alloy	Vertical	M10 x 1	No	299090820903
Ø40	0 + 10 + 15 bar	Cuprous alloy	Vertical	M10 x 1	No	299001990005
Ø40	0 + 16 + 25 bar	Cuprous alloy	Vertical	M10 x 1	No	On demand
Ø40	0 + 200 + 315 bar	Cuprous alloy	Vertical	M10 x 1	No	On demand
Ø40	0 + 175 bar	Cuprous alloy	Rear	1/8 NPT	No	On demand
Ø40	0 + 200 + 315 bar	Cuprous alloy	Rear	1/8 NPT	No	On demand
Ø40	0 + 200 + 315 bar	Cuprous alloy	Rear	1/8 NPT	No	On demand
Ø40	0 + 240 + 315 bar	Cuprous alloy	Rear	G 1/4	No	On demand
Ø40	0 + 240 + 315 bar	Cuprous alloy	Rear	G 1/4	No	On demand
Ø40	0 + 200 + 315 bar	Cuprous alloy	Rear	G 1/8	No	On demand
Ø40	0 + 300 + 400 bar	Cuprous alloy	Rear	G 1/8	No	On demand
Ø40	0 + 300 + 400 bar	Cuprous alloy	Rear	G 1/8	No	On demand
Ø40	-1 + 1 + 1,5 bar	Cuprous alloy	Rear	M10 x 1	No	On demand
Ø40	-1 + 1,5 + 2,5 bar	Cuprous alloy	Rear	M10 x 1	No	On demand
Ø40	-1 + 2,5 + 5 bar	Cuprous alloy	Rear	M10 x 1	No	333333334833
Ø40	-1 + 3 + 5 bar	Cuprous alloy	Rear	M10 x 1	No	390000990032
Ø40	-1 + 4 + 6 bar	Cuprous alloy	Rear	M10 x 1	No	On demand
Ø40	-1 + 8 + 12 bar	Cuprous alloy	Rear	M10 x 1	No	33333333000
Ø40	-1 + 10 + 15 bar	Cuprous alloy	Rear	M10 x 1	No	390000990037
Ø40	-1 + 1 + 1,5 bar	Stainless steel	Rear	M10 x 1	No	On demand
Ø40	-1 + 1,5 + 2,5 bar	Stainless steel	Rear	M10 x 1	No	On demand
Ø40	-1 + 2,5 + 5 bar	Stainless steel	Rear	M10 x 1	No	On demand
Ø40	-1 + 3 + 5 bar	Stainless steel	Rear	M10 x 1	No	299303990000
Ø40	-1 + 4 + 6 bar	Stainless steel	Rear	M10 x 1	No	On demand
Ø40	-1 + 5 + 8 bar	Stainless steel	Rear	M10 x 1	No	On demand
Ø40	-1 + 8 + 12 bar	Stainless steel	Rear	M10 x 1	No	33333333906
Ø40	-1 + 10 + 15 bar	Stainless steel	Rear	M10 x 1	No	333333334834
Ø40	1 + 12 + 16 bar	Stainless steel	Rear	M10 x 1	No	33333333944
Ø40	0 + 40 + 60 bar	Stainless steel	Rear	M10 x 1	No	On demand
Ø40	0 + 50 + 70 bar	Stainless steel	Rear	1/8 NPT	No	33333333145
Ø40	0 + 160 + 205 bar	Stainless steel	Rear	1/8 NPT	No	On demand
Ø40	0 + 200 + 315 bar	Stainless steel	Rear	1/8 NPT	No	On demand
Ø40	0 + 200 + 315 bar	Stainless steel	Rear	G 1/8	No	On demand

Ø36

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø36	0 + 750 + 1000 psi	Cuprous alloy	Rear	1/8 NPT	No	On demand
Ø36	0 + 2250 + 3000 psi	Cuprous alloy	Rear	1/8 NPT	No	On demand
Ø36	0 + 207 + 275 bar	Stainless steel	Rear	1/8 NPT	No	On demand

CONTACT PRESSURE GAUGES

NORMALLY OPEN CONTACT PRESSURE GAUGE, Ø50 M10 X 1 MALE VERTICAL CONNECTION

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	0 + 16 bar	Cuprous alloy	Vertical	M10 x 1	Inductive	On demand
Ø50	0 + 300 + 400 bar	Cuprous alloy	Vertical	M10 x 1	Inductive	360021990001
Ø50	0 + 400 bar	Cuprous alloy	Vertical	M10 x 1	Sliding	390000990013

NORMALLY OPEN CONTACT PRESSURE GAUGE, Ø50 M10 X 1 MALE REAR CONNECTION

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	0 + 16 bar	Cuprous alloy	Rear	M10 x 1	Inductive	390001990004
Ø50	0 + 40 bar	Cuprous alloy	Rear	M10 x 1	Inductive	299178990028
Ø50	0 + 100 bar	Cuprous alloy	Rear	M10 x 1	Inductive	On demand
Ø50	0 + 100 bar	Cuprous alloy	Rear	M10 x 1	Sliding	On demand
Ø50	0 + 250 bar	Cuprous alloy	Rear	M10 x 1	Sliding	390000990011
Ø50	0 + 250 bar	Cuprous alloy	Rear	M10 x 1	Inductive	390000990012
Ø50	0 + 400 bar	Cuprous alloy	Rear	M10 x 1	Inductive	390003990002
Ø50	0 + 400 bar	Cuprous alloy	Rear	M10 x 1	Sliding	On demand
Ø50	0 + 250 bar	Cuprous alloy	Rear	M10 x 1	Sliding	On demand
Ø50	0 + 16 bar	Stainless steel	Rear	M10 x 1	Inductive	On demand
Ø50	0 + 40 bar	Stainless steel	Rear	M10 x 1	Inductive	33333334560
Ø50	0 + 100 bar	Stainless steel	Rear	M10 x 1	Sliding	On demand
Ø50	0 + 100 bar	Stainless steel	Rear	M10 x 1	Inductive	On demand
Ø50	0 + 250 bar	Stainless steel	Rear	M10 x 1	Sliding	390014990002
Ø50	0 + 250 bar	Stainless steel	Rear	M10 x 1	Inductive	390014990003
Ø50	0 + 400 bar	Stainless steel	Rear	M10 x 1	Sliding	On demand
Ø50	0 + 400 bar	Stainless steel	Rear	M10 x 1	Inductive	33333334568

NORMALLY OPEN CONTACT PRESSURE GAUGE, Ø50 ¼ FEMALE METAL FACE SEAL VERTICAL CONNECTION

Diameter	Scale	Material	Connection	Female thread	Contact	KIT part number
Ø50	-1 + 9 bar	Stainless steel	Vertical	¼ face seal	Inductive	On demand
Ø50	0 + 16 bar	Stainless steel	Vertical	¼ face seal	Inductive	On demand
Ø50	0 + 40 bar	Stainless steel	Vertical	¼ face seal	Inductive	On demand
Ø50	0 + 100 bar	Stainless steel	Vertical	¼ face seal	Sliding	On demand
Ø50	0 + 250 bar	Stainless steel	Vertical	¼ face seal	Sliding	On demand

NORMALLY OPEN CONTACT PRESSURE GAUGE, Ø50 M: ¼ METAL FACE SEAL REAR CONNECTION

Diameter	Scale	Material	Connection	Male thread	Contact	KIT part number
Ø50	0 + 40 bar	Stainless steel	Rear	¼ face seal	Sliding	On demand
Ø50	0 + 250 bar	Stainless steel	Rear	¼ face seal	Sliding	On demand
Ø50	0 + 250 bar	Stainless steel	Rear	¼ face seal	Inductive	On demand

CYLINDER CONNECTORS

Connects regulators, supply boards or switch over boards to gas cylinders directly, or via a flexible hose or pigtail

CYLINDER FITTINGS

- ★ High pressure
- ★ 200 bar or 300 bar version
- ★ Chrome plated brass or stainless steel

Special requirements on request



KEY FEATURES

- Cylinder connector according to the following standards: AFNOR, DIN, BS, CGA, NEN, UNI, FTSC 300 bar ...
- Other connections on demand
- Outlet connection: 16 x 1.336 - Male or 1/4 NPT - Male
- Material: chrome plated brass or stainless steel

OPTIONS

- 300 bar (FTSC) version
- Raw brass version
- Mounted on flexible hose or pigtail



CYLINDER CONNECTIONS BS 341

PART No.	TYPE (INLET)	MATERIAL	MALE OUTLET THREAD
381040990000	BS 3	Chrome plated brass	16 x 1.336
360232990000			1/4 NPT
360137990000		Stainless steel	16 x 1.336
360232990300			1/4 NPT
360048990000	BS 2 / BS 4	Chrome plated brass	16 x 1.336
360234990000			1/4 NPT
360138990000		Stainless steel	16 x 1.336
360234990300			1/4 NPT
360139990000	BS 6	Stainless steel	16 x 1.336
360136990000	BS 8	Stainless steel	16 x 1.336
360014990300	BS 13	Stainless steel	16 x 1.336
381041990000	BS 14	Stainless steel	16 x 1.336

CYLINDER CONNECTIONS UNI 11144

PART No.	TYPE (INLET)	MATERIAL	MALE OUTLET THREAD
300819990000	UNI 1 - 4405	Chrome plated brass	16 x 1.336
300640990300		Stainless steel	
300815990000	UNI 2 - 4406	Chrome plated brass	16 x 1.336
300639990300		Stainless steel	
300638990300	UNI 3 - 4407	Stainless steel	16 x 1.336
300812990000	UNI 5 - 4409	Chrome plated brass	16 x 1.336
300813990000	UNI 6 - 4410	Chrome plated brass	16 x 1.336
300811990000	UNI 8 - 4412	Chrome plated brass	16 x 1.336

OTHERS: ON DEMAND

SPECIFICATIONS

CYLINDER CONNECTIONS DIN477-1

PART No.	TYPE (INLET)	MATERIAL	MALE OUTLET THREAD
300601990000	DIN 1	Chrome plated brass	16 x 1.336
300618990000			¼ NPT
300615990300		Stainless steel	16 x 1.336
300632990300			¼ NPT
300609990000	DIN 5	Chrome plated brass	16 x 1.336
300616990300		Stainless steel	
300602990000	DIN 6	Chrome plated brass	16 x 1.336
300619990000			¼ NPT
300617990300		Stainless steel	16 x 1.336
300633990300			¼ NPT
300603990000	DIN 7	Chrome plated brass	16 x 1.336
300618990300		Stainless steel	
300610990000	DIN 8	Chrome plated brass	16 x 1.336
300624990300			16 x 1.336
300600990007		Stainless steel	¼ NPT
300605990000			16 x 1.336
300605990001	DIN 9	Chrome plated brass	¼ NPT
300619990300		Stainless steel	16 x 1.336
300606990000	DIN 10	Chrome plated brass	16 x 1.336
300646990000			¼ NPT
300620990300		Stainless steel	16 x 1.336
300646990300			¼ NPT
300607990000	DIN 13	Chrome plated brass	16 x 1.336
300621990300			16 x 1.336
300600990000	DIN 14	Chrome plated brass	16 x 1.336
300620990000			¼ NPT
300604990302		Stainless steel	16 x 1.336
300604990304			¼ NPT

OTHERS: ON DEMAND

CYLINDER CONNECTIONS DIN477-5 (300 bar)

PART No.	TYPE (INLET)	MATERIAL	MALE OUTLET THREAD
350000990003	DIN 5 - 54	Chrome plated brass	16 x 1.336
300641990300		Stainless steel	
350000990002	DIN 5 - 56	Chrome plated brass	16 x 1.336
300642990300		Stainless steel	
350000990001	DIN 5 - 57	Chrome plated brass	16 x 1.336
300644990300		Stainless steel	
350000990000	DIN 5 - 59	Chrome plated brass	16 x 1.336
300643990300		Stainless steel	

OTHERS: ON DEMAND

CYLINDER CONNECTIONS NEN 3268

PART No.	TYPE (INLET)	MATERIAL	MALE OUTLET THREAD
381013990000	LU1	Chrome plated brass	16 x 1.336
381012990000	RU1		
381015990000	RU6		
381016990000	RI2		

OTHERS: ON DEMAND

CYLINDER CONNECTIONS CGA -V1

PART No.	TYPE (INLET)	MATERIAL	MALE OUTLET THREAD
360140990000	CGA 320	Chrome plated brass	16 x 1.336
360132990000		Stainless Steel	
360147990000	CGA 330	Stainless Steel	16 x 1.336
381024990000	CGA 350	Chrome plated brass	16 x 1.336
360135990000		Stainless Steel	
360141990000	CGA 510	Chrome plated brass	16 x 1.336
360133990000		Stainless Steel	
360144990000	CGA 540	Chrome plated brass	16 x 1.336
360145990000		Stainless Steel	
381025990000	CGA 580	Chrome plated brass	16 x 1.336
360134990000		Stainless Steel	
299164990000	CGA 590	Chrome plated brass	16 x 1.336
360146990000		Stainless Steel	
360143990000	CGA 660	Chrome plated brass	16 x 1.336
299165990000		Stainless Steel	

OTHERS: ON DEMAND

CYLINDER CONNECTIONS AFNOR NFE 29-650

PART No.	TYPE (INLET)	MATERIAL	MALE OUTLET THREAD
300805990000	TYPE A	Chrome plated brass	16 x 1.336
300806990000	TYPE B	Chrome plated brass	16 x 1.336
300800990000	TYPE C	Chrome plated brass	16 x 1.336
300800990002			¼ NPT
300602990302		Stainless steel	16 x 1.336
300600990302			¼ NPT
360062990000	TYPE D	Chrome plated brass	16 x 1.336
360062990001		Stainless steel	16 x 1.336
300801990000	TYPE E	Chrome plated brass	16 x 1.336
300801990002			¼ NPT
300603990302		Stainless steel	16 x 1.336
300601990302	¼ NPT		
300802990000	TYPE F	Chrome plated brass	16 x 1.336
300629990300		Stainless steel	16 x 1.336
300803990000	TYPE G	Chrome plated brass	16 x 1.336
300803990001		Stainless steel	16 x 1.336
300804990000	TYPE H	Chrome plated brass	16 x 1.336
300637990300		Stainless steel	16 x 1.336
300636990300	TYPE J	Stainless steel	16 x 1.336
360059990000	TYPE L	Chrome plated brass	16 x 1.336
360059990001		Stainless steel	16 x 1.336
360060990001	TYPE M	Stainless steel	16 x 1.336
360061990001	TYPE N	Stainless steel	16 x 1.336

OTHERS: ON DEMAND

SV 12 RELIEF VALVE

- Line safety relief valve to protect installations against over-pressure

RELIEF VALVE

- ★ Connectable to purging line
- ★ CE marked (2014/68/UE)
- ★ AISI 316L

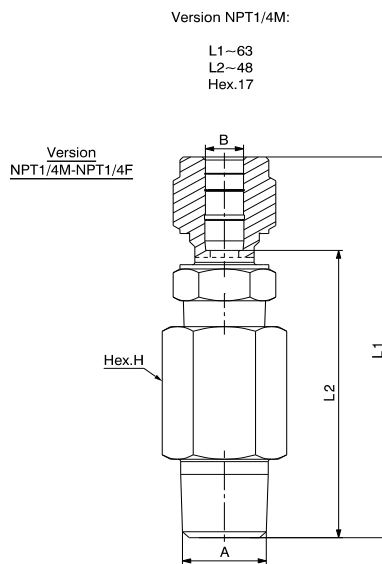
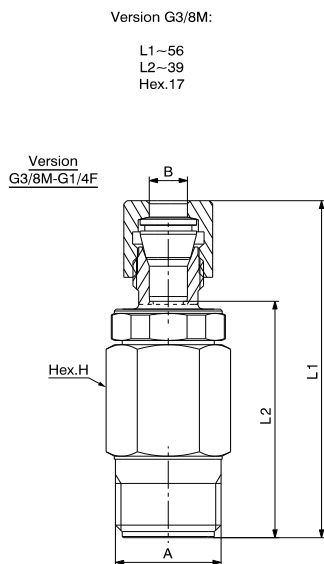
Special requirements on request

KEY FEATURES

- CE marked according to the European Directive 2014/68/UE.
- Set at pre-defined safety pressure values.
- Compact dimensions.
- Compatible with many gases (see table).
- With PCTFE flat seal.
- Delivered with the user manual.

RECOMMENDATIONS OF USE

- The relief valve must be dimensioned in such a way that the pipe pressure will under no circumstances surpass the conception pressure of pipes, even when the safety valve is venting.
- The pressure in the pipe must not exceed the calculated value even when the device is open.

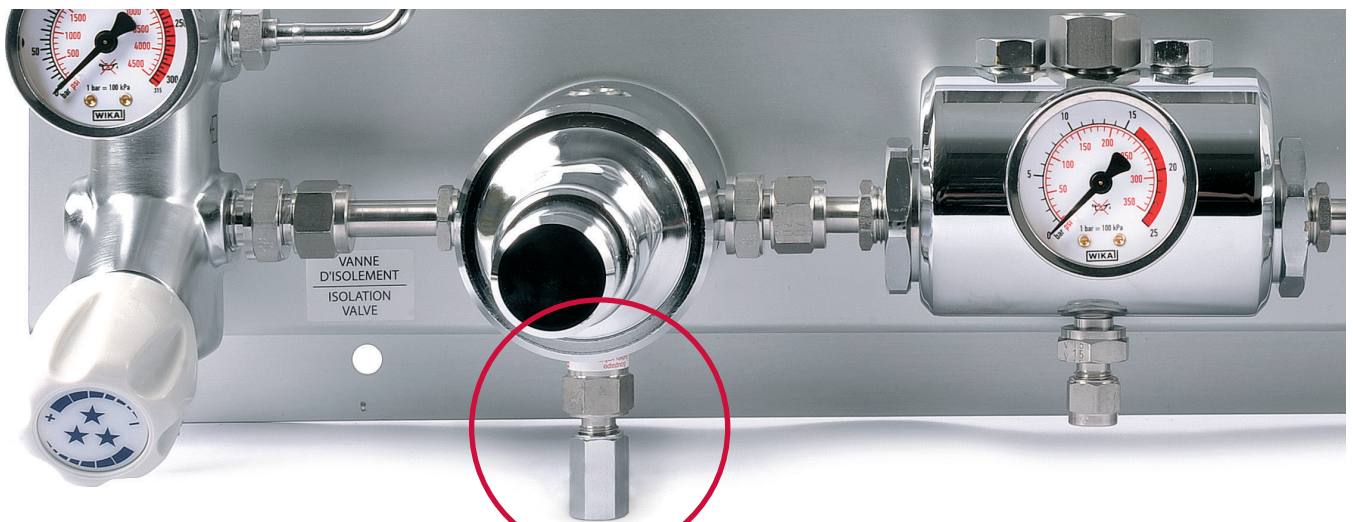


A FEW FLOW VALUES OF THE SV 12 AT A PRESSURE 1,25 TIMES THE TIGHTNESS PRESSURE

Tightness pressure (marked on the body) In bar	2 bar	4 bar	5 bar	9 bar	11 bar	12 bar	16 bar	22 bar	24 bar	35 bar	50 bar	62 bar
Minimum flow for 1.25 x tightness pressure in m ³ /h - N ₂	5.2	7.6	9.8	17	21.4	23	30.2	38.1	43.4	57.5	77.4	107.1

SPECIFICATIONS

Gasket	PCTFE (AISI 316L version)	Gas with FPM and stainless steel	Ar, He, N ₂ , H ₂ , Air, Ne, Kr, Xe, C ₄ H ₁₀ , CH ₄ , C ₁₂ , O ₂	Ports (outlet)	6 mm or ¼"
O-ring	EPDM FPM NBR	Oxygen use	OK	Body	AISI 316L
Gas with NBR and stainless steel	Ar, CO, He, N ₂ , H ₂ , Air, Ne, Kr, Xe, NH ₃ , C ₄ H ₁₀ , CH ₄	Tightness pressure	2 to 62 bar (29 to 900 psi)	Leak rate	10 ⁻⁷ mbar ℓ/s He
Gas with EPDM and stainless steel	CO ₂ , CO, He, N ₂ , Air, Ne, Kr, Xe, C ₂ H ₂ , NH ₃ , H ₂	Seat orifice size	Hexagonal Ø 2 mm	Temperature range	-20°C to +65°C -4°F to +149°F
		Ports (inlet)	G ¾ - Male or ¼ NPT - Male		



SV 12 (cont'd)

CONNECTABLE RELIEF VALVE - CE marked (97/23/CE)

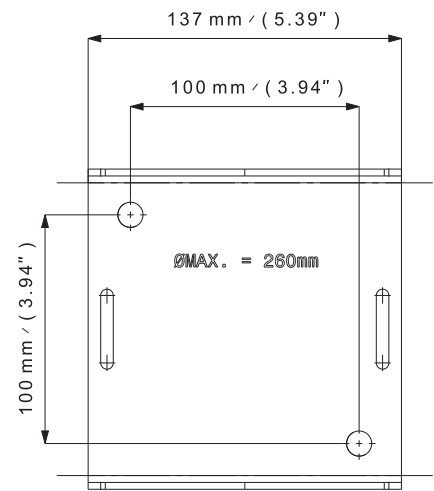
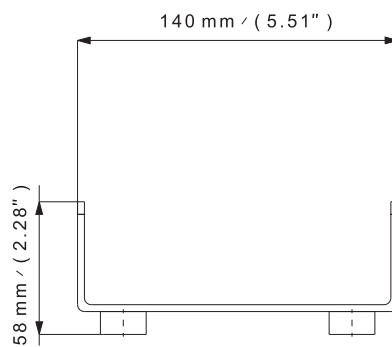
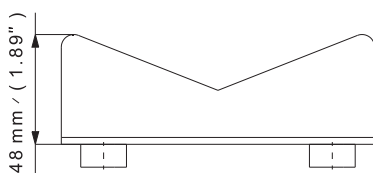
Tightness pressure	Material	Inlet connection	Outlet connection (tube fitting)	O-Ring	Rotarex designation	Kit part number
2 bar	Inox 316L	M: G 3/8	DB 6mm	EPDM	KIT \ SOUP \ SV12 \ 2 bar \ G 3/8 \ 316L \ EPDM \ DB6	380001990301
4 bar	Inox 316L	M: G 3/8	DB 6mm	EPDM	KIT \ SOUP \ SV12 \ 4 bar \ G 3/8 \ 316L \ EPDM \ DB6	380001990302
5 bar	Inox 316L	M: G 3/8	DB 6mm	EPDM	KIT \ SOUP \ SV12 \ 5 bar \ G 3/8 \ 316L \ EPDM \ DB6	380001990303
				FPM	KIT \ SOUP \ SV12 \ 5 bar \ G 3/8 \ 316L \ FPM \ DB6	380001990304
9 bar	Inox 316L	M: G 3/8	DB 6mm	FPM	KIT \ SOUP \ SV12 \ 9 bar \ G 3/8 \ 316L \ FPM \ DB6	380001990306
				EPDM	KIT \ SOUP \ SV12 \ 9 bar \ G 3/8 \ 316L \ EPDM \ DB6	380001990305
12 bar	Inox 316L	M: G 3/8	DB 6mm	EPDM	KIT \ SOUP \ SV12 \ 12 bar \ G 3/8 \ 316L \ EPDM \ DB6	380001990307
16 bar	Inox 316L	M: G 3/8	DB 6mm	EPDM	KIT \ SOUP \ SV12 \ 16 bar \ G 3/8 \ 316L \ EPDM \ DB6	380001990308
			DB 1/4"		KIT \ SOUP \ SV12 \ 16 bar \ G 3/8 \ 316L \ EPDM \ DB1/4	380001990358
					FPM	KIT \ SOUP \ SV12 \ 16bar \ G 3/8 \ 316L \ FPM \ DB6
22 bar	Inox 316L	M: G 3/8	DB 6mm	EPDM	KIT \ SOUP \ SV12 \ 22 bar \ G 3/8 \ 316L \ EPDM \ DB6	380001990311
24 bar	Inox 316L	M: G 3/8	DB 6mm	EPDM	KIT \ SOUP \ SV12 \ 24 bar \ G 3/8 \ 316L \ EPDM \ DB6	380001990320
		M: 1/4 NPT			KIT \ SOUP \ SV12 \ 24 bar \ 1/4NPT \ 316L \ EPDM \ DB6	380001990319
35 bar	Inox 316L	M: G 3/8	DB 6mm	EPDM	KIT \ SOUP \ SV12 \ 35 bar \ G 3/8 \ 316L \ EPDM \ DB6	380001990314
		M: 1/4 NPT			KIT \ SOUP \ SV12 \ 35 bar \ 1/4NPT \ 316L \ EPDM \ DB6	380001990317
					FPM	KIT \ SOUP \ SV12 \ 35 bar \ G 3/8 \ 316L \ FPM \ DB6
50 bar	Inox 316L	M: G 3/8	DB 6mm	EPDM	KIT \ SOUP \ SV12 \ 50 bar \ G 3/8 \ 316L \ EPDM \ DB6	380001990369
62 bar	Inox 316L	M: G 3/8	DB 6mm	EPDM	KIT \ SOUP \ SV12 \ 62 bar \ G 3/8 \ 316L \ EPDM \ DB6	380001990357

GAS CYLINDER HOLDER

Designed for the storage of one or large number of gas cylinders in an appropriate area

- ★ Can be fixed permanently to the wall
- ★ Securely holds cylinder in place
- ★ Allows permanent designation of appropriate cylinder storage area
- ★ Delivered with a fixing belt
- ★ Many cylinder holders can be used together, side by side
- ★ Part number: 202500000007

Special requirements on request



Rear view

GAS COMPATIBILITY

KEY TO GAS COMPATIBILITY:

Locate your gas type in the below chart and see the gas compatibility of each standard material type. Only select materials that are compatible with your gas type.

GAS COMPATIBILITY WITH MATERIALS (AT 20°C ROOM TEMPERATURE)

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	OK	OK	OK	
Carbon dioxide	CO_2	B	OK	OK	OK			OK
Carbon monoxide	CO	B	OK	OK	OK	OK		OK
Ethane	C_2H_6	B	OK	OK	OK	OK	OK	
Helium	He	B	OK		OK	OK	OK	OK
Hydrogen	H_2	B	OK		OK	OK	OK	OK
Krypton	Kr	B	OK	OK	OK	OK	OK	
Methane	CH_4	B	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					OK	OK
Propane	C_3H_8	B	OK	OK	OK	OK		
Silane	SiH_4	SS 316L		OK	OK		OK	
Ammonia	NH_3	SS 316L	OK	OK	OK			OK
Ethylene	C_2H_4	B	OK	OK	OK			
Hydrogen Sulfide	H_2S	SS 316L	OK	OK	OK		OK	OK
Sulphur Dioxide	SO_2	SS 316L		OK	OK			OK
Sulphur Hexafluoride	SF_6	B	OK	OK	OK	OK	OK	OK

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CONVERSION CHARTS

FLOW CONVERSION

	m ³ /h	l/h	foot ³ /min	l/s	cm ³ /s
m ³ /h	1	1 x 10 ³	0.589	0,2778	277,78
l/h	1 x 10 ⁻³	1	5.885 x 10 ⁻⁴	2,778 x 10 ⁻⁴	0,2778
foot ³ /min	1,69	1,699 x 10 ³	1	0,4719	471,95
l/s	3,6	3,6 x 10 ³	2.119	1	10 ³
cm ³ /s	3,6 x 10 ⁻³	3,6	2.119 x 10 ⁻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	9,869 x 10 ⁻⁴	14.5 x 10 ⁻³
kPa	10 ⁻²	10	1	10 ⁻³	9,869 x 10 ⁻³	0.145
MPa	10	10 ⁴	10 ³	1	9,869	145
atm	1,013	1013	101,3	1,013 x 10 ⁻¹	1	14.69
psi	6,89 x 10 ⁻²	68,9	6,89	6,89 x 10 ⁻³	6,8 x 10 ⁻²	1

LEAK RATE

	Atm.cc/sec	mbar.l/sec	Atm.mm ³ /sec	Atm.cc/min	Atm.L/min	Atm.m ³ /min	Atm.cu.ft/yr	torr.l/sec
Atm.cc/sec	1	1.013	1000	60	0.06	6.00E-05	1116	0.759
mbar.l/sec	0.987	1	987	59.23	0.059	5.90E-05	1101	0.75
Atm.mm ³ /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
Litre/min	16.67	16.88	16667	1000	1	0.001	18601	12.67
Atm.m ³ /min	16667	16883	16666667	1000000	1000	1	18601190	12664
cu ft/yr	0.0009	0.0009	0.896	0.054	5.37E-05	5.37E-08	1	0.0007
torr.l/sec	1.316	1.33	1316	78.96	0.0789	7.89E-05	1468	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	1032
400	752	673	1212
500	932	773	1392
600	1112	873	1572
700	1292	973	1752
800	1472	1073	1932
900	1652	1173	2112
1000	1832	1273	2292

DIMENSION

metric	inches	inch fractional	inch decimal	metric (mm)
3	0.135	1/16"	0.063	1,59
6	0.270	1/8"	0.125	3,18
8	0.360	3/16"	0.188	4,76
10	0.450	1/4"	0.250	6,35
12	0.540	5/16"	0.313	7,94
14	0.630	3/8"	0.375	9,53
16	0.720	1/2"	0.500	12,70
18	0.810	7/16"	0.438	11,11
20	0.900	5/8"	0.625	15,88
22	0.990	3/4"	0.750	19,05
25	1.125	7/8"	0.875	22,23
		1"	1.000	25,40

A FULL LINE OF GAS CONTROL SOLUTIONS



COMPLETE SOLUTIONS FROM SOURCE TO PROCESS.

ROTAREX is helping engineers worldwide to get better gas results: from ultra high purity production and medical care facilities to industrial and LPG applications, as well as alternative energy vehicles, fire suppression, diving, aerospace, cryogenics, laboratory, petro-chemical and welding. ROTAREX applies over 90 years of know-how and experience to custom design, develop and manufacture the high performance valves, regulators and fittings to suit your needs, all in one hand. Discover the difference ROTAREX can make in your world.

CYLINDER VALVES

EQUIPMENT

FIRETEC

AUTOMOTIVE

LPG/SRG

MEDITEC



ULTRA HIGH PURITY VALVES



MEDICAL VALVES & EQUIPMENT



INDUSTRIAL CYLINDER VALVES



REFRIGERANT CYLINDER VALVES



PRESSURE REGULATORS



SUPPLY & SWITCH OVER BOARDS



LINE VALVES



FITTINGS & ADAPTORS



**FIXED INSTALLATION
FIRE SYSTEMS**



**OBJECT FIRE SUPPRESSION
SYSTEMS**



**AUTOMOTIVE VALVES
& REGULATORS**



WATER CARBONATION



**LPG TANK VALVES
& REGULATORS**



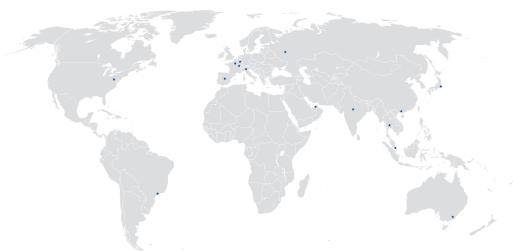
**LPG CYLINDER VALVES
& REGULATORS**



**DIGITAL MEASUREMENT
SYSTEMS**

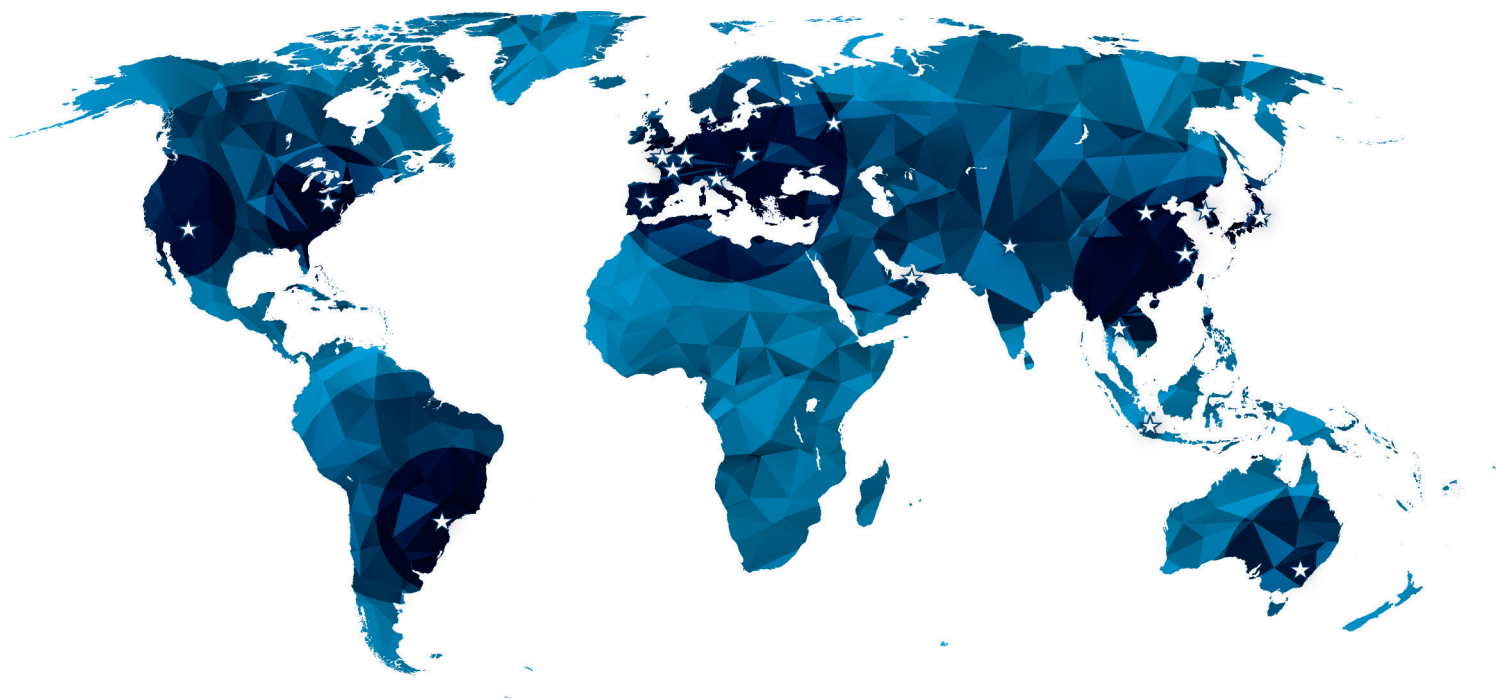


PLASTIC INJECTION MouldING



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