



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) | 2,5/3,5/5,5/10 |
| 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



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 |



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. 036

| | |
|---|----------------------------------|
| 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 VM 200 P. 078

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



SERIES VM 50 P. 079

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



SERIES VM 20 P. 080

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



SERIES VM 45 P. 082

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



SERIES RD 10 P. 083

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

ACCESSORIES



PRESSURE GAUGES P. 084



CYLINDER CONNECTORS P. 090



SV 10 RELIEF VALVE P. 092



GAS CYLINDER HOLDER P. 095

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

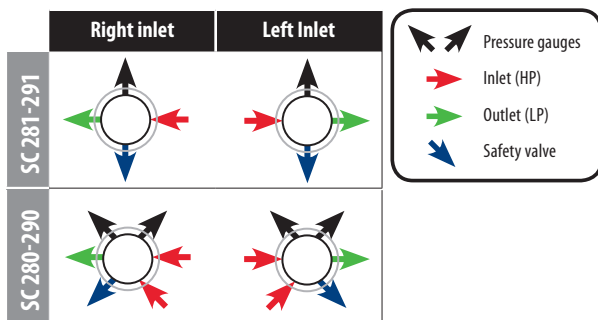
SINGLE STAGE REGULATOR

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.

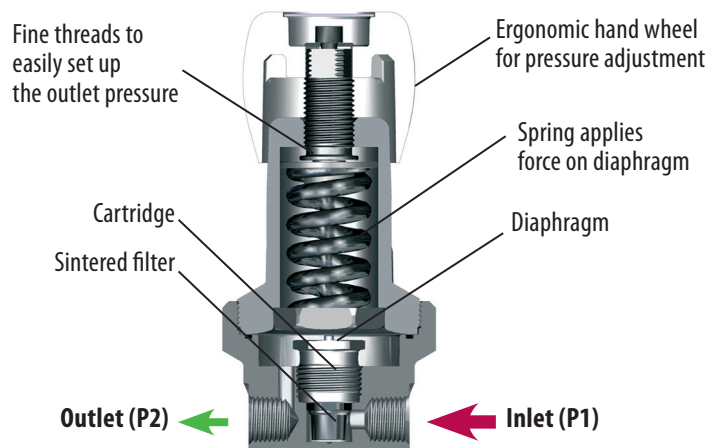
Single stage regulators are also recommended for liquefied gas service such as CO₂, Propane, LPG, cryogenic gases and other gases that are liquid in the cylinder.

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.



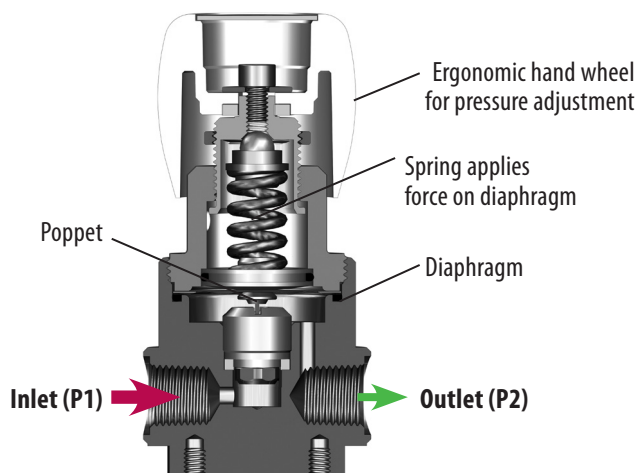
PRODUCT FINDER

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

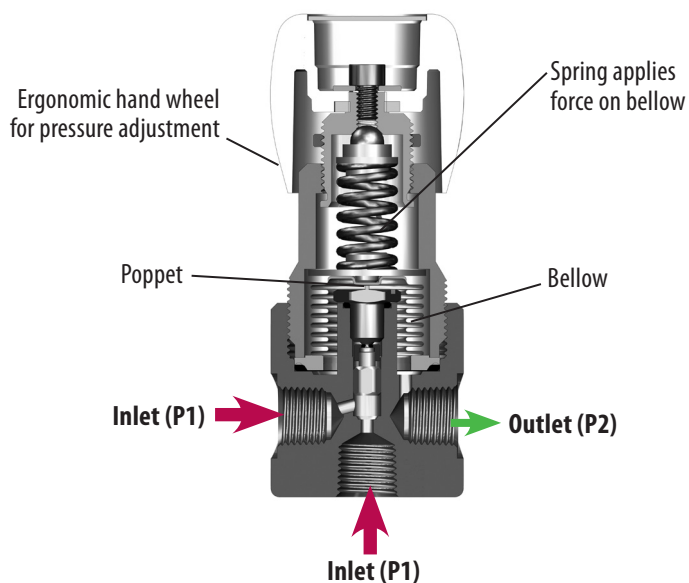


PRODUCT FINDER

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

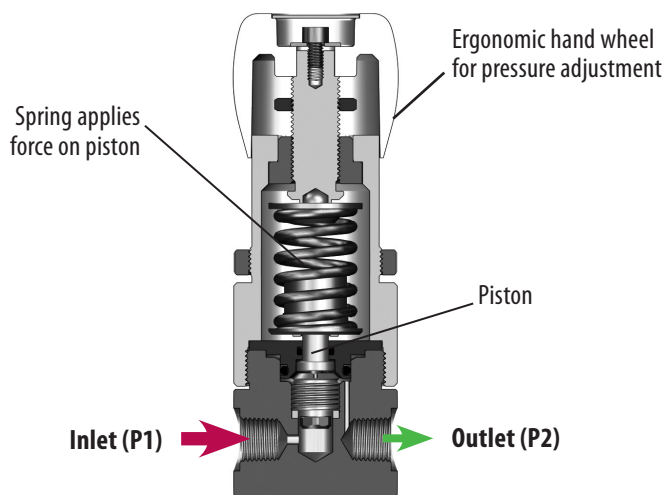


PRODUCT FINDER

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.

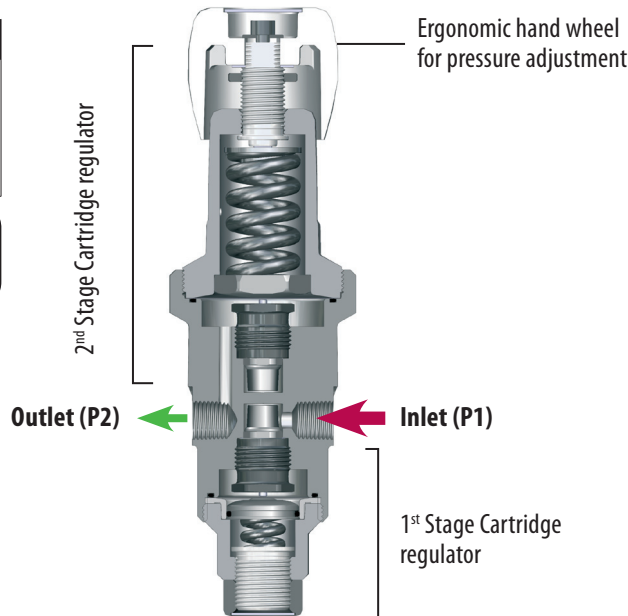
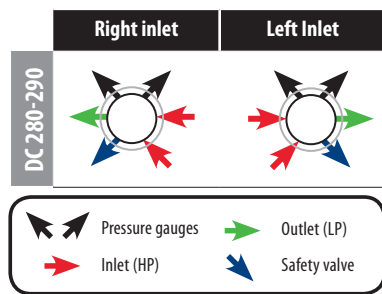
The first stage is preset to an intermediate pressure. This intermediate pressure acts as the inlet pressure to the second stage, which is adjustable.

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

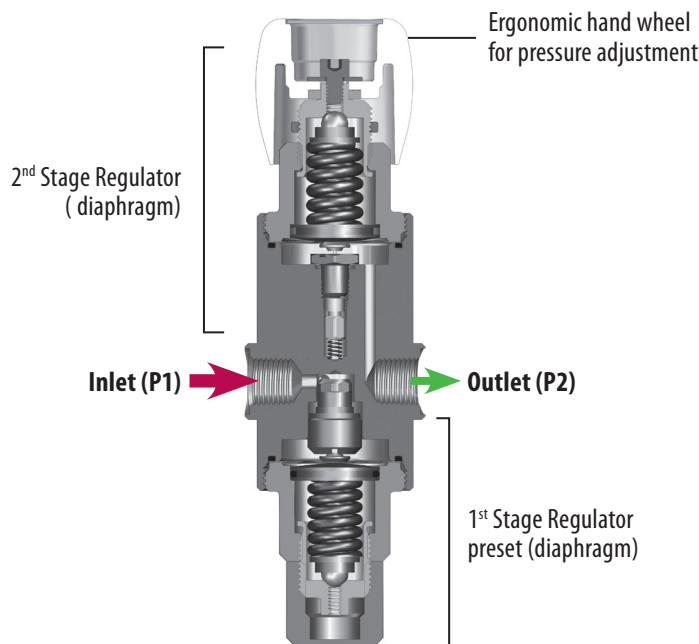


PRODUCT FINDER

ROTAREX dual stage regulators

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

DIAPHRAGM/DIAPHRAGM REGULATOR



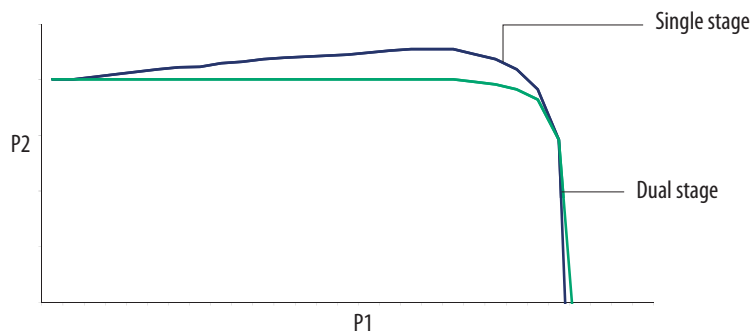
PRODUCT FINDER

ROTAREX diaphragm /diaphragm regulators

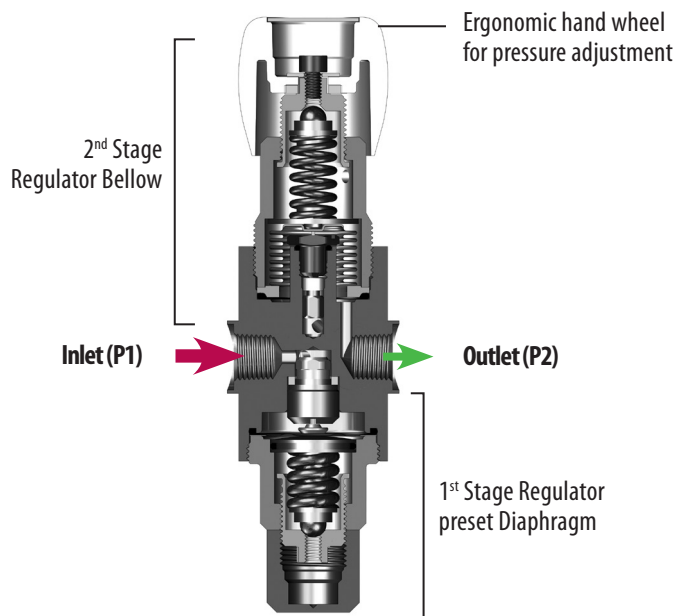
| | |
|------------------|--------|
| Series D 235-0.1 | P. 046 |
|------------------|--------|

TECHNOLOGY OVERVIEW (continued)

COMPARISON OF DUAL STAGE VS. SINGLE STAGE REGULATOR

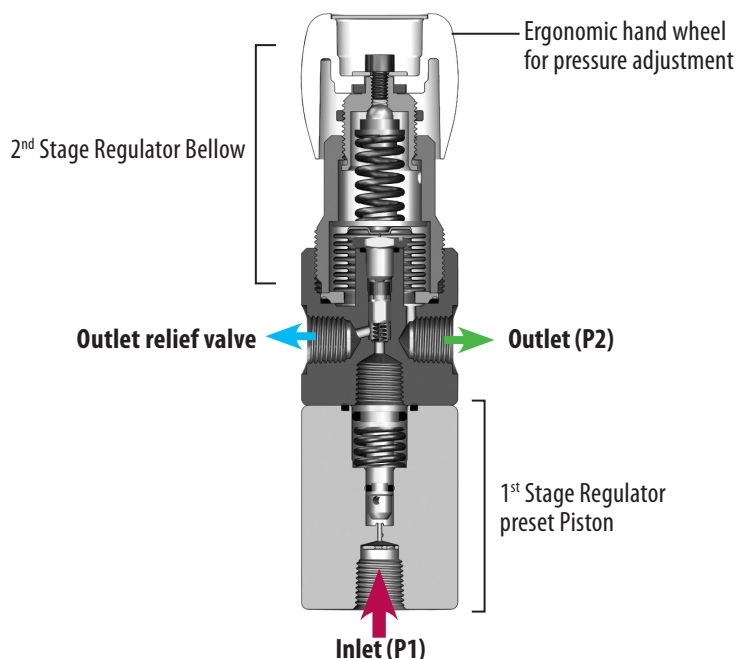


DIAPHRAGM/BELLOW REGULATOR



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

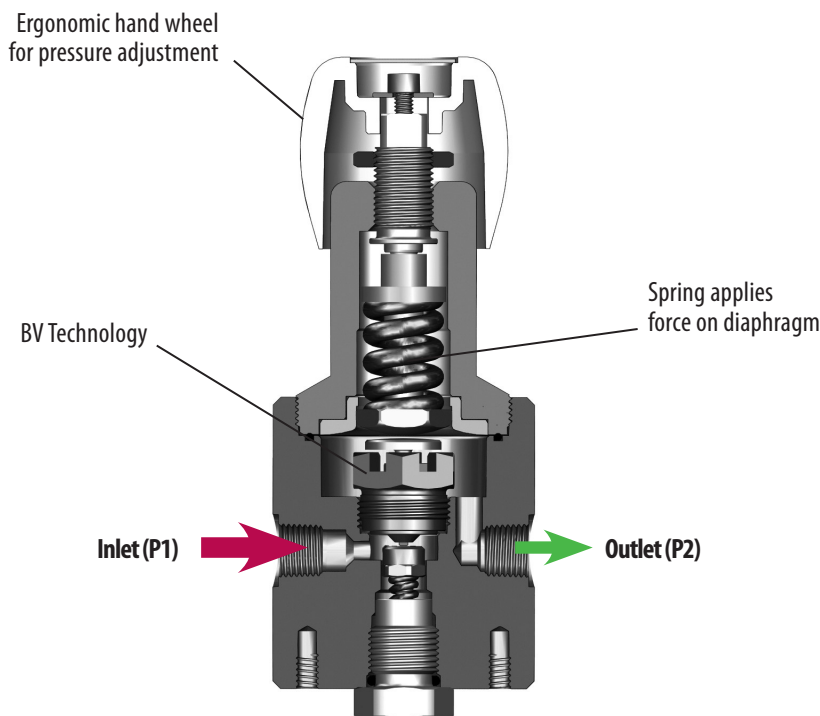
TECHNOLOGY OVERVIEW (continued)

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.

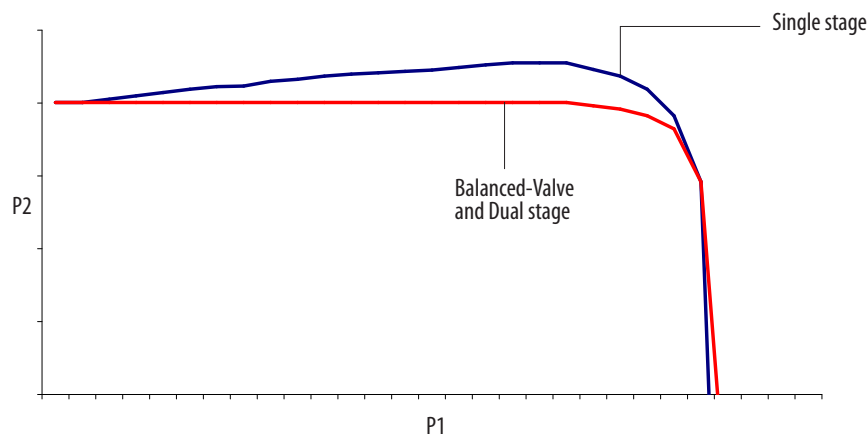
This regulator type also functions as a LINE REGULATOR for a 2nd regulation and can equip our switch over boards. Switch over boards equipped with this technology don't need any line regulator afterwards and can be connected directly to the application.

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 |
| Atex 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 S 215 SINGLE STAGE HP REGULATOR

APPLICATIONS

- Designed for cylinder regulator applications
- Ideally suited for pure, inert and non-corrosive gases
- Applications such as analytical instrumentation
- Also used to create a controlled atmosphere in laboratories
- The Series 215 is developed for industrial gas applications

GENERAL

- Compact, ergonomic and lightweight design makes this regulator suitable for many applications.
- Accurate pressure control for reliable service.

SPECIFICATIONS

| | | | | | |
|---------------|---|-------------------|---|-----------------|--|
| Body/material | Ni 1.23.040 - Chromed | Weight | ± 1.2 kg ± 3.3 lbs | Inlet pressure | 200 bar 2900 psi / 4350 psi |
| Seat seal | PTFE | Leakrate | 10 ⁻⁶ mbar L/s He | Outlet pressure | 10 bar / 150 psi 14.5 bar / 210 psi / 210 psi |
| Oring | EPDM - Standard NBR FFKM | Temperature range | -20°C to + 60°C -4°F to + 140°F | Minimal flow | 0.5 L/min / 1.5 USG flow (N ₂) |
| Diaphragm | 402-200 (S/16 version) 402-200 (15/10 version) | Gauges | High and low pressure (N ₂ or 1 or 1/4 NPT) | Response | OK for burst and residual relief except 10 bar and 50 bar outlet pressure versions |

FLOW CURVES

PRODUCT CONFIGURATION

| Body Material | Inlet Pressure | Outlet Pressure | Ports | Out Connection | Body Material | Design | Part Configuration |
|-----------------|---------------------|-------------------|-------|----------------|--------------------|---------------|--------------------|
| Chromed plated | 200 bar 2900 psi | 10 bar 150 psi | 5 | 5 | Ni 1.23.04 - Cr-Ni | EPDM Standard | A |
| Stainless steel | 300 bar 4350 psi | 10 bar 150 psi | 5 | 6 | 1/4 NPT 1/4 NPT | NBR | B |
| | | | | | | FFKM | C |
| | | | | | | NBR | D |
| | | | | | | FFKM | E |
| | | | | | | NBR | F |
| | | | | | | FFKM | G |

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: Polytetrafluoroéthylène



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 PCTFE 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 S 215 SINGLE STAGE HP REGULATOR

APPLICATIONS

- Single stage high pressure
- Purity up to 6.0
- Rated pressure: 200 bar (2900 psi) or 300 bar (4350 psi)
- Rated flow: 1000 l/min (250 gpm)
- Rated pressure: 100 bar (1450 psi) or 150 bar (2175 psi)

Compact and lightweight design

Easy to install

Easy to use for fast installation

Easy to maintain


Easy to use for fast installation

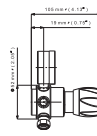
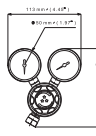
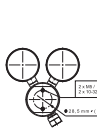
Easy to use for fast installation

Easy to use for fast installation

GENERAL

Compact, ergonomic and lightweight design makes this regulator suitable for many applications. Accurate pressure control for stable service.

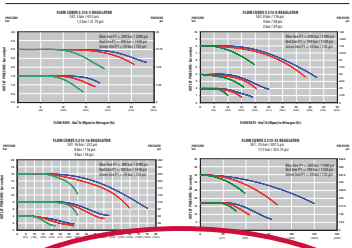


SPECIFICATIONS

| | | |
|---|--|--|
| Female ports: 1/2" NPT (15.24 mm) - 1/2" NPT (15.24 mm) | Weight: 2.1 kg (4.6 lb) | Rated pressure: 200 bar (2900 psi) or 300 bar (4350 psi) |
| Seat seal: PCTFE | Leak rate: 10 ⁻⁶ mbar·L/s·h | Rated flow: 1000 l/min (250 gpm) or 1500 l/min (390 gpm) |
| Rating: Standard | Temperature range: -20°C to +60°C (-4°F to +142°F) | Rated flow: 1000 l/min (250 gpm) or 1500 l/min (390 gpm) |
| Diaphragm: Hastelloy® (316L version) | Gas type: High and low pressure (0.1 to 100 bar) | Design: 100 bar and 150 bar and 200 bar and 300 bar |

FLOW CURVES



PRODUCT CONFIGURATION

| Body Material | Rated Pressure | Rated Flow | Ports | Seat Material | Diaphragm | Gas Type | Design | Flow Configuration |
|---------------------|----------------|------------|------------|---------------|-----------|-----------------------|----------|--------------------|
| Chrome plated steel | 200 bar | 1000 l/min | 1/2" ports | PTFE | Hastelloy | High and low pressure | Standard | A |
| Stainless steel | 200 bar | 1000 l/min | 1/2" ports | PTFE | Hastelloy | High and low pressure | Standard | B |
| Stainless steel | 300 bar | 1500 l/min | 1/2" ports | PTFE | Hastelloy | High and low pressure | Standard | C |
| Stainless steel | 300 bar | 1500 l/min | 1/2" ports | PTFE | Hastelloy | High and low pressure | Standard | D |
| Stainless steel | 300 bar | 1500 l/min | 1/2" ports | PTFE | Hastelloy | High and low pressure | Standard | E |
| Stainless steel | 300 bar | 1500 l/min | 1/2" ports | PTFE | Hastelloy | High and low pressure | Standard | F |

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

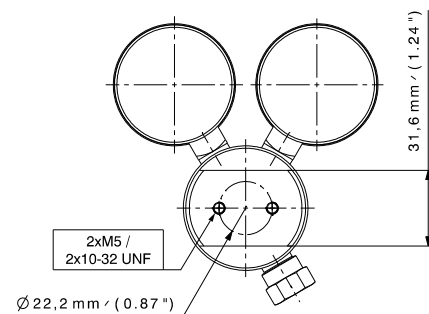
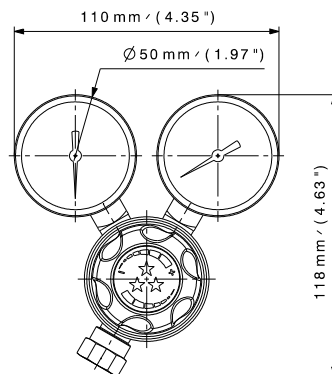
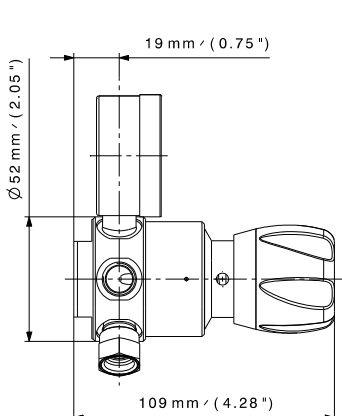
APPLICATIONS

- 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

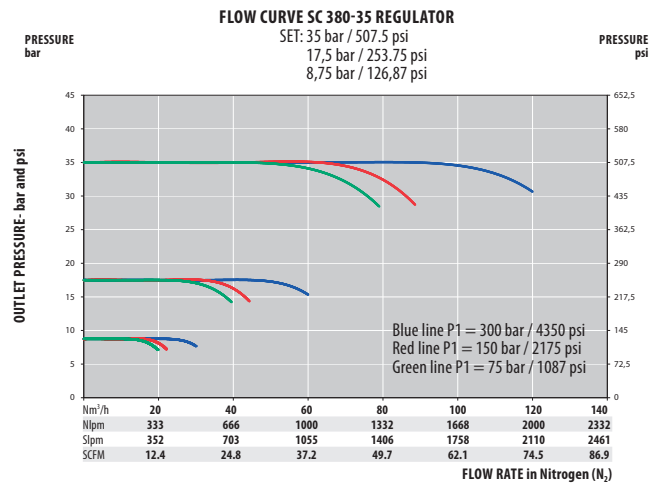
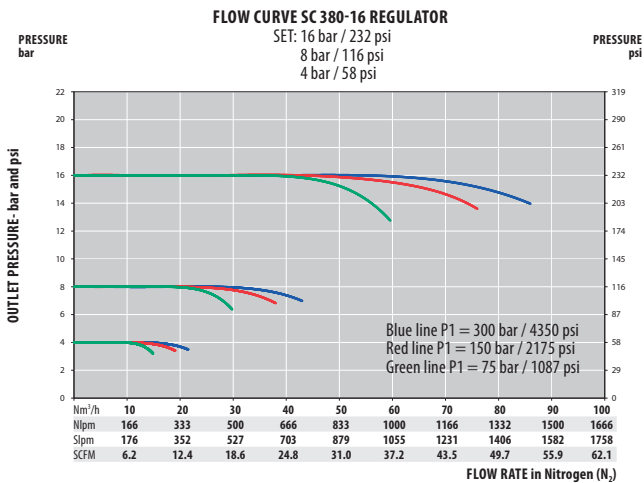
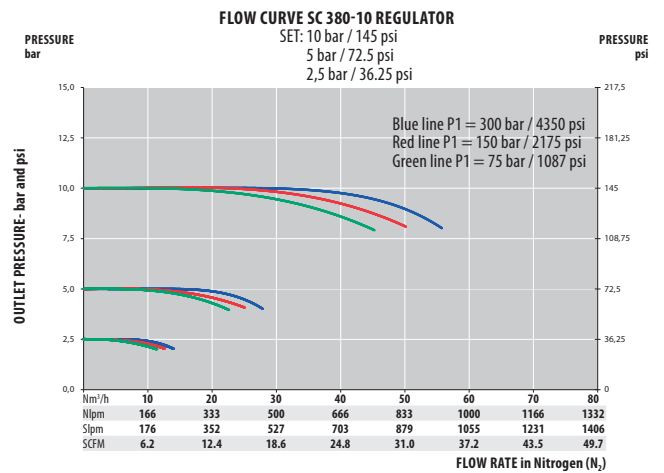
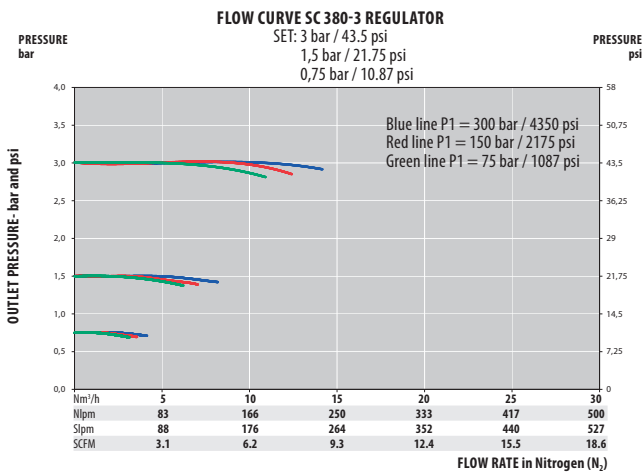
*Other on demand



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

| SC | Body Material | Inlet Pressure | Port Configuration | Outlet pressure | Inlet Connection | Outlet Connection | Gauges | Gas Type |
|----|---------------------|----------------------|--------------------|-----------------------|---------------------------------|------------------------------------|---------|----------|
| | 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 UMSI6 | 6 Compression tube fitting UMSI6 | With | 1 |
| | | | | 10 bar / 145 psi | Compression tube fitting UMSI8 | 8 Compression tube fitting UMSI8 | | |
| | | | | 16 bar / 232 psi | Compression tube fitting UMSI½" | ½" Compression tube fitting UMSI½" | | |
| | | | | 35 bar / 508 psi | Compression tube fitting UMSI¼" | ¼" Compression tube fitting UMSI¼" | | |

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

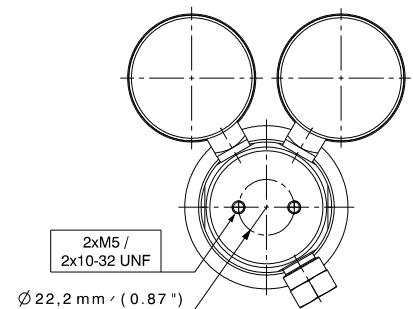
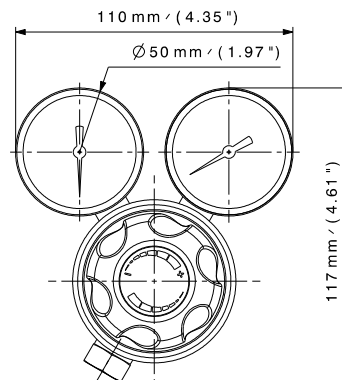
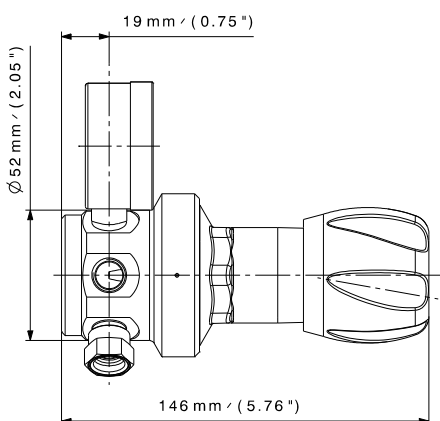
Special requirements on request

APPLICATIONS

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

GENERAL

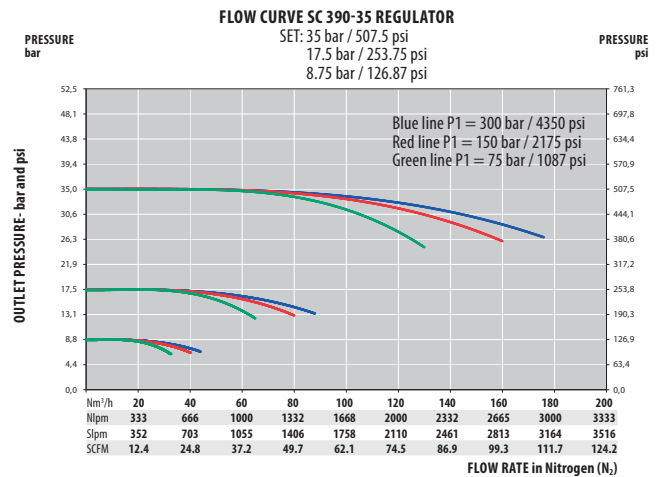
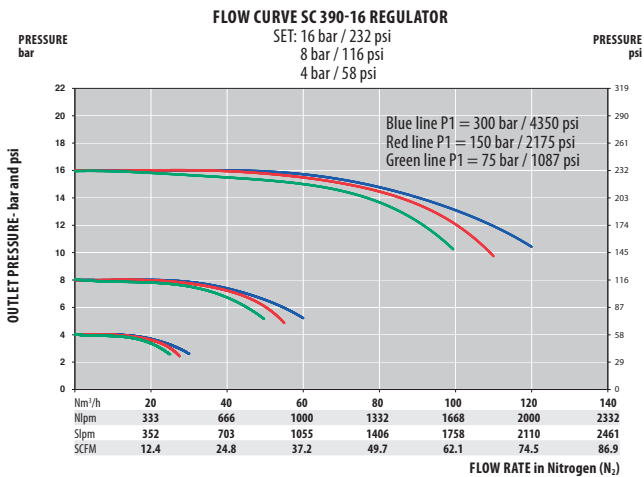
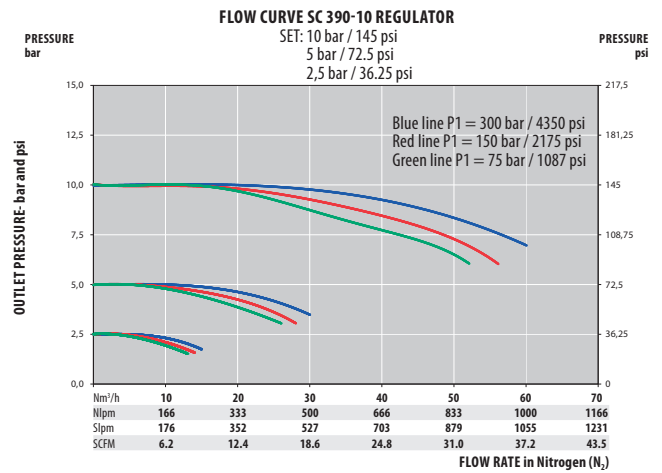
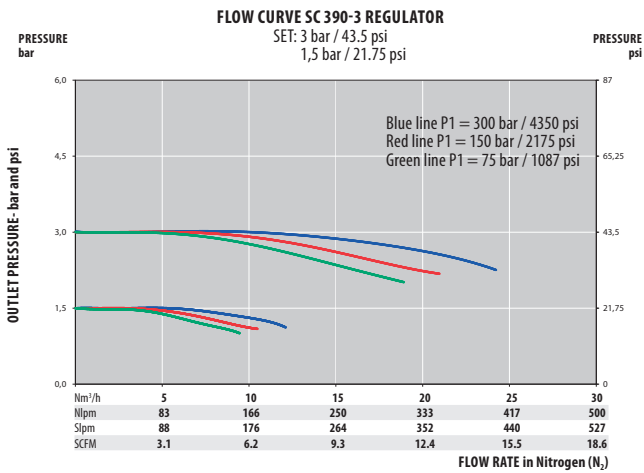
- This single stage regulator is based on the Cartridge seat Technology.
- High Flow regulator with a very stable outlet pressure based on the cartridge technology
- Accurate pressure control for reliable service
- Acetylene version available at the outlet
- Only in chrome plated brass
- Could be equipped 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 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 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)
- ★ Inlet / Outlet pressure gauge
- ★ 1 relief valve

Special requirements on request

APPLICATIONS

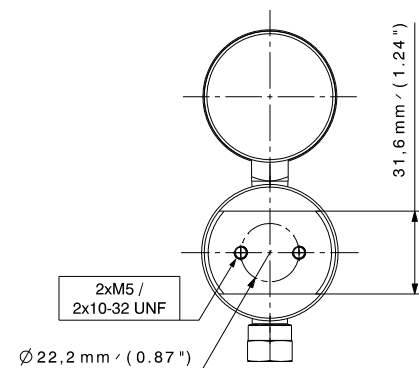
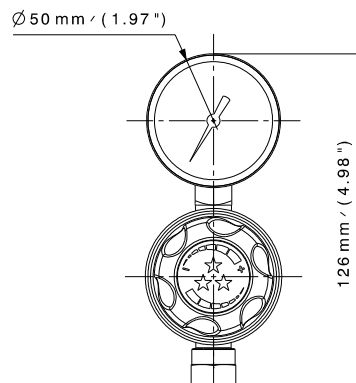
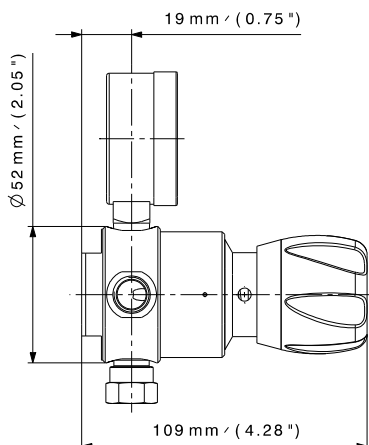
- Designed for line regulator applications when the supply of speciality gases is demanded in laboratory or in industrial environment
- Used in calibration gas mixtures for petrochemical industry, environmental emission monitoring, industrial hygiene of safety monitors and trace impurity analyzers.

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

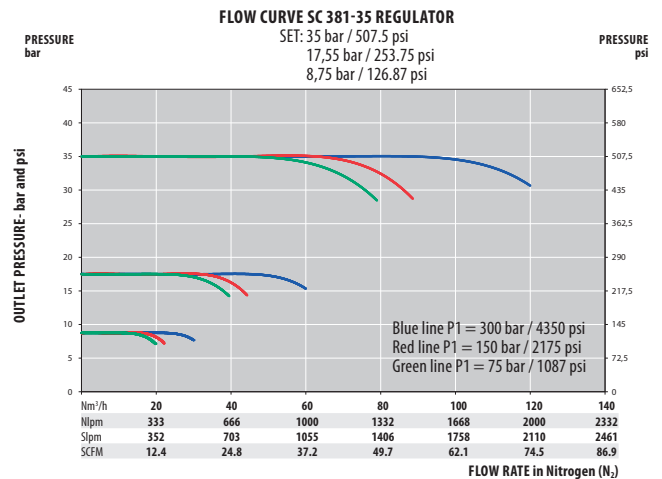
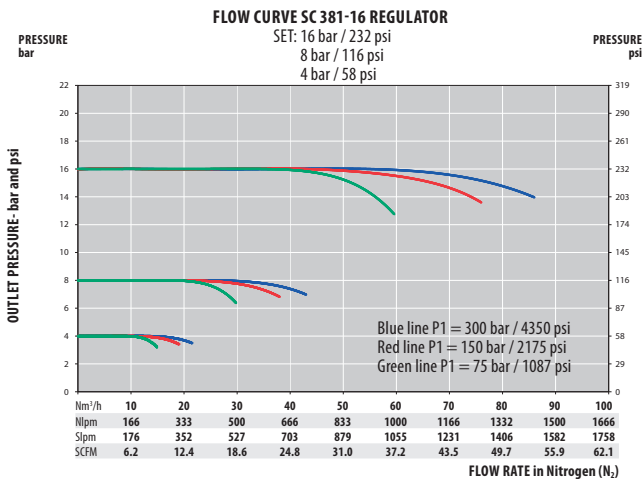
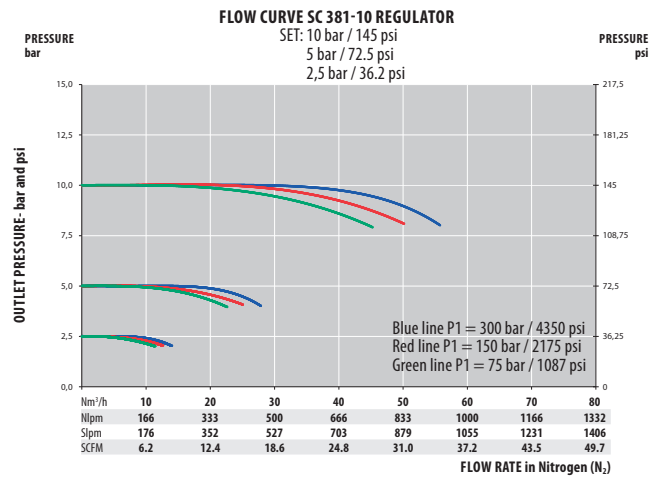
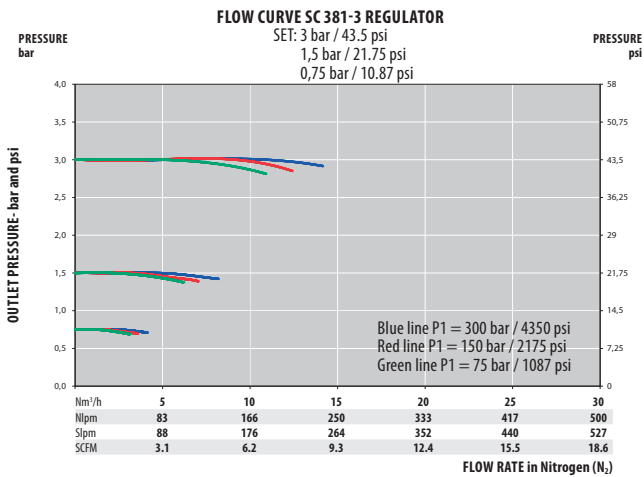
*Other on demand



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

| | Body Material | Inlet Pressure | Port Configuration | Outlet pressure | Inlet Connection | Outlet Connection | Gauges | Gas Type |
|----|---------------------|----------------------|--------------------|-----------------------|------------------------------------|------------------------------------|-----------|----------|
| SC | L | 281 | R | 10 | N | N | 1 | 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 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 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)
- ★ Inlet / Outlet pressure gauge
- ★ 1 relief valve

Special requirements on request

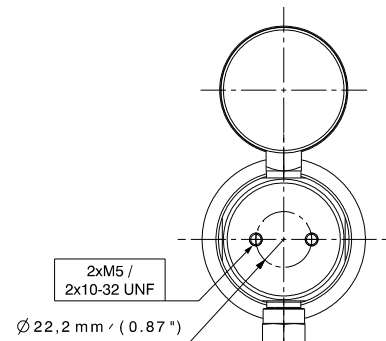
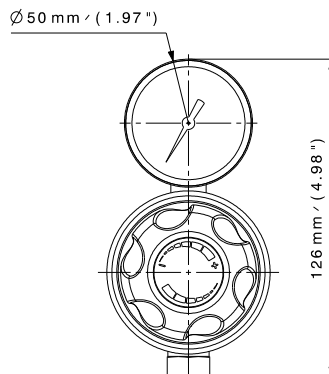
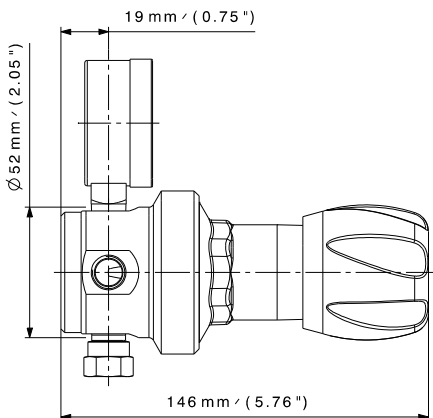
APPLICATIONS

- 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.

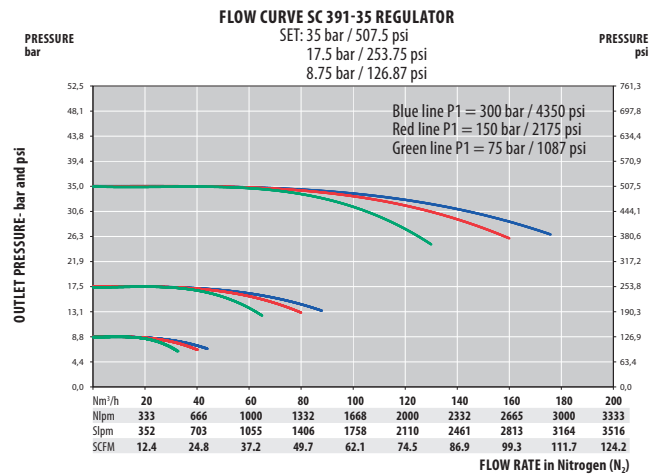
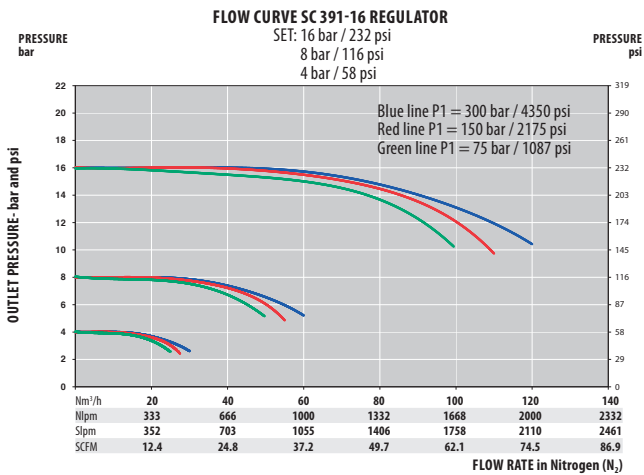
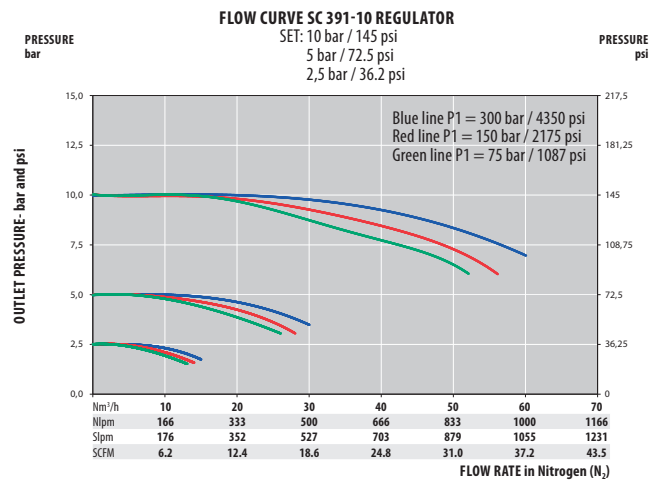
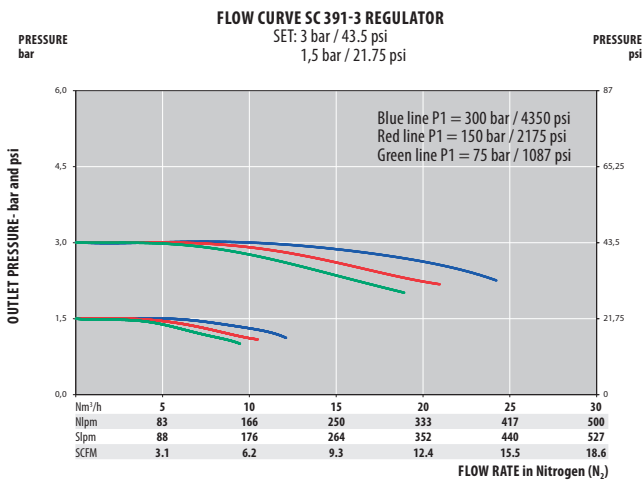
- This regulator is an accurate pressure control for reliable service.
- Ideally designed for line regulator or point of use applications
- Could be equipped with a shut off valve
- Relief valve seat seals material:
 - Brass Version: EPDM



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

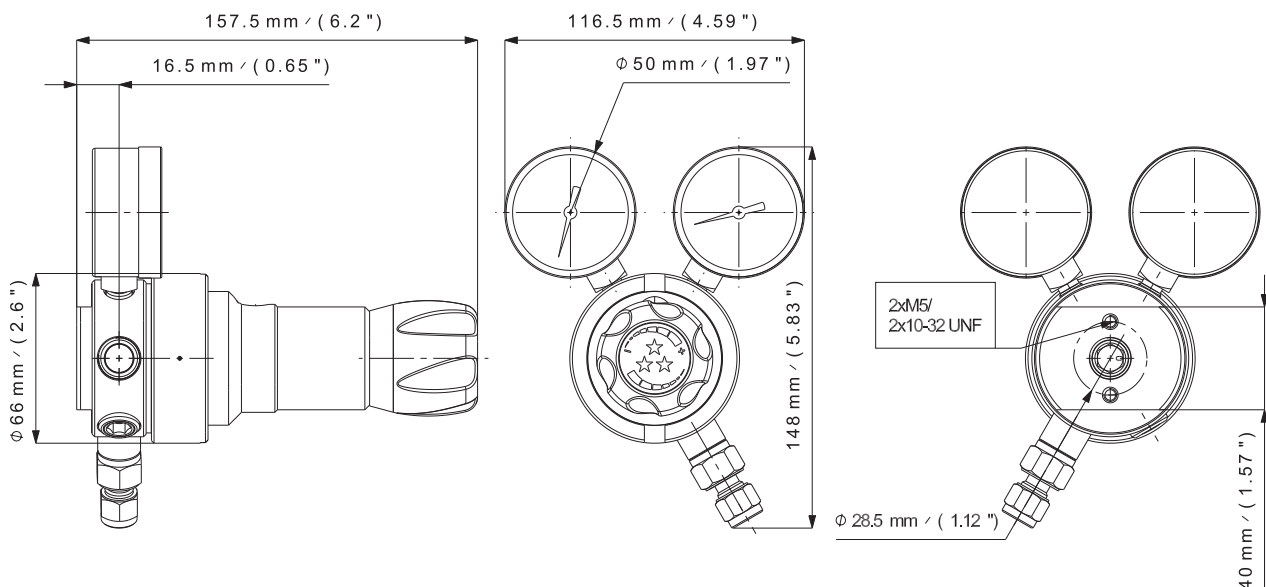
Special requirements on request

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

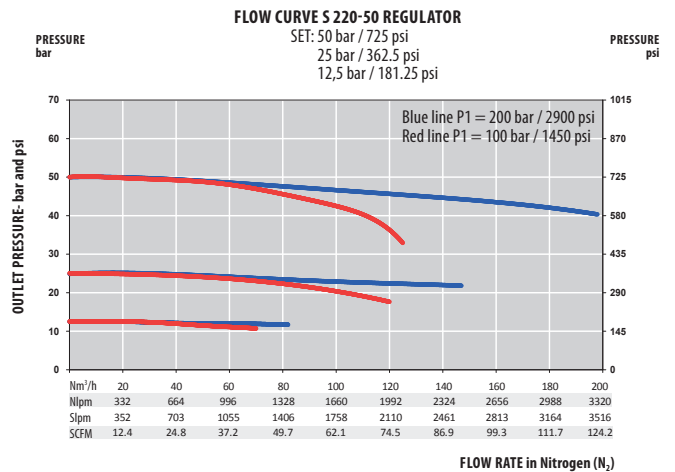
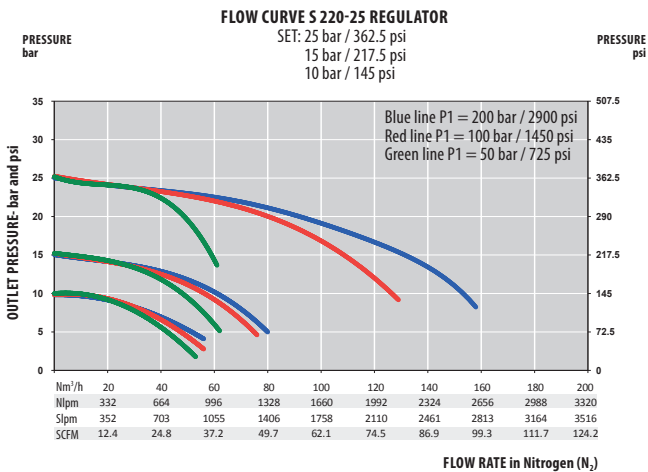
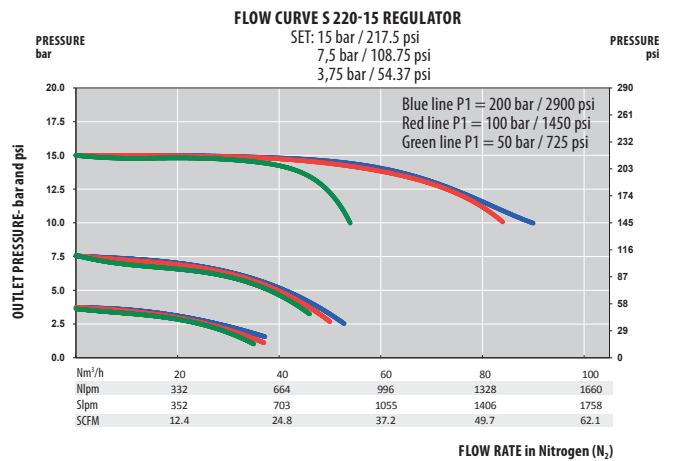
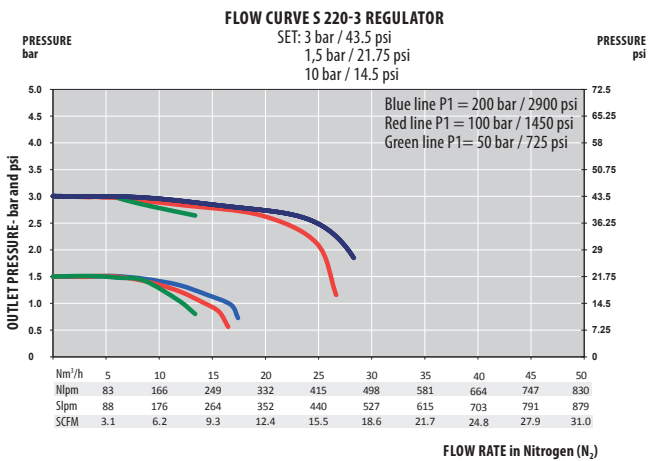
- No contamination risk due to its threadless and springless design.
- Low dead volume, which guarantees a good purge of the regulator.
- Ergonomic handwheel for exceptional control.
- Panel mounting possible due the rear threads.
- Can also be equipped with a shut off or needle valve at the outlet.



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 | 15 | N | 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

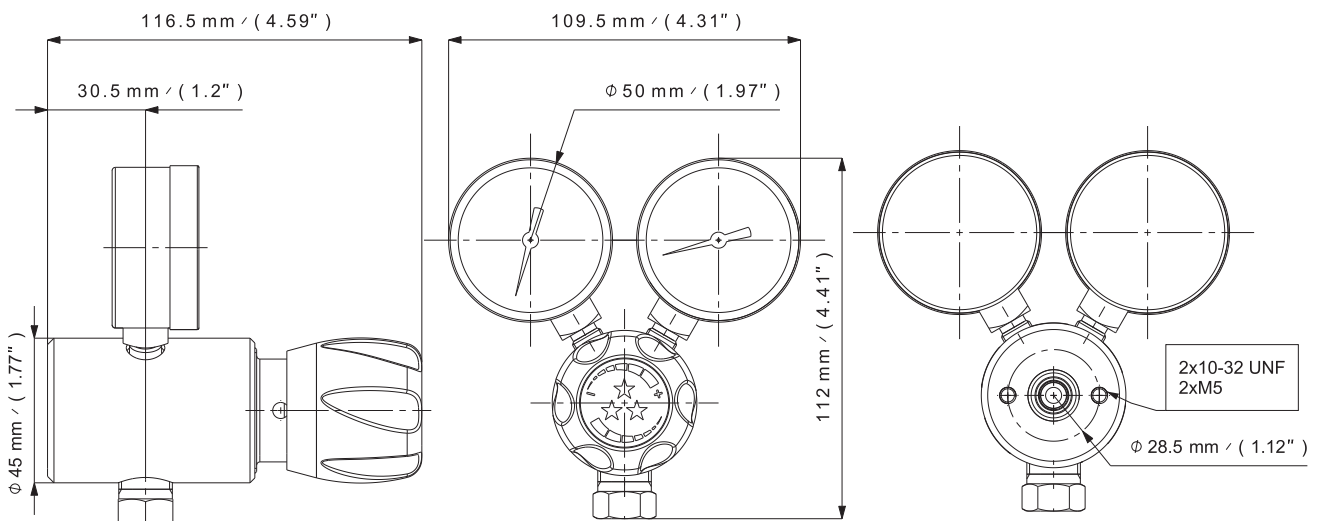
Special requirements on request

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

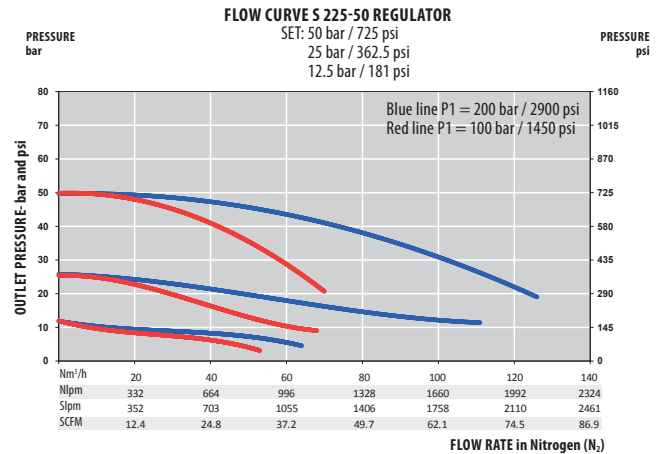
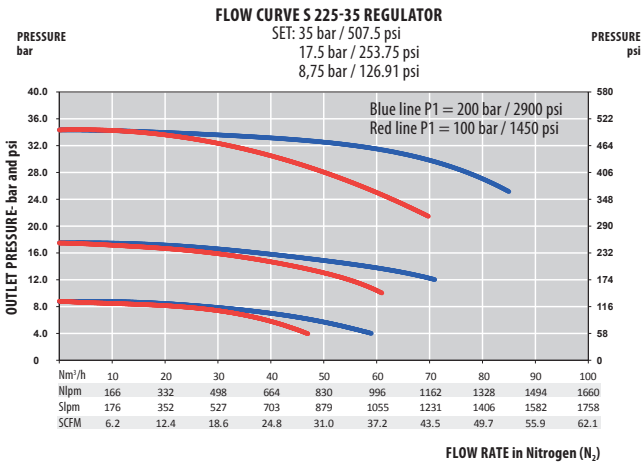
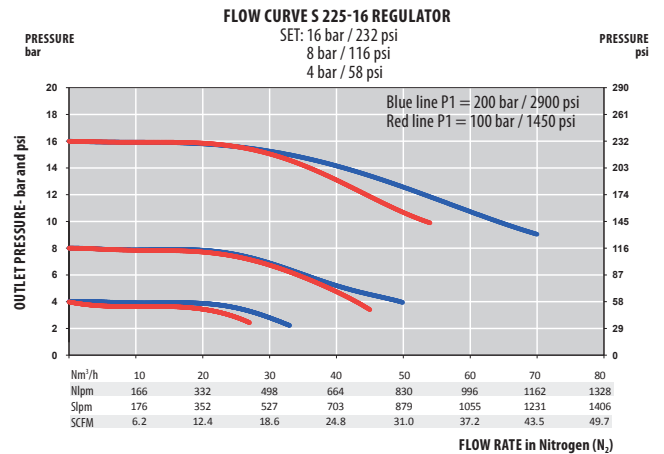
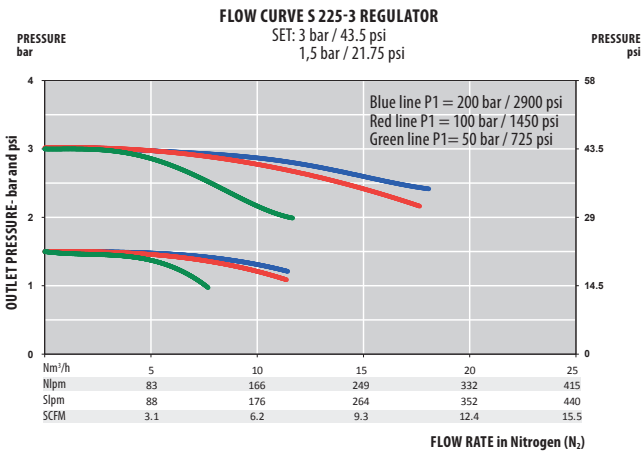
- Compact design suitable for multiple applications.
- Accurate pressure control for reliable service.
- Ergonomic handwheel for exceptional control.
- The Series 225 exists also with a side inlet ("EL" version).
- Wall mounting possible due to rear threads.
- Could be also equipped with a needle or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



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 | 2/10/14/25/25 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 - 1/4 NPT | 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

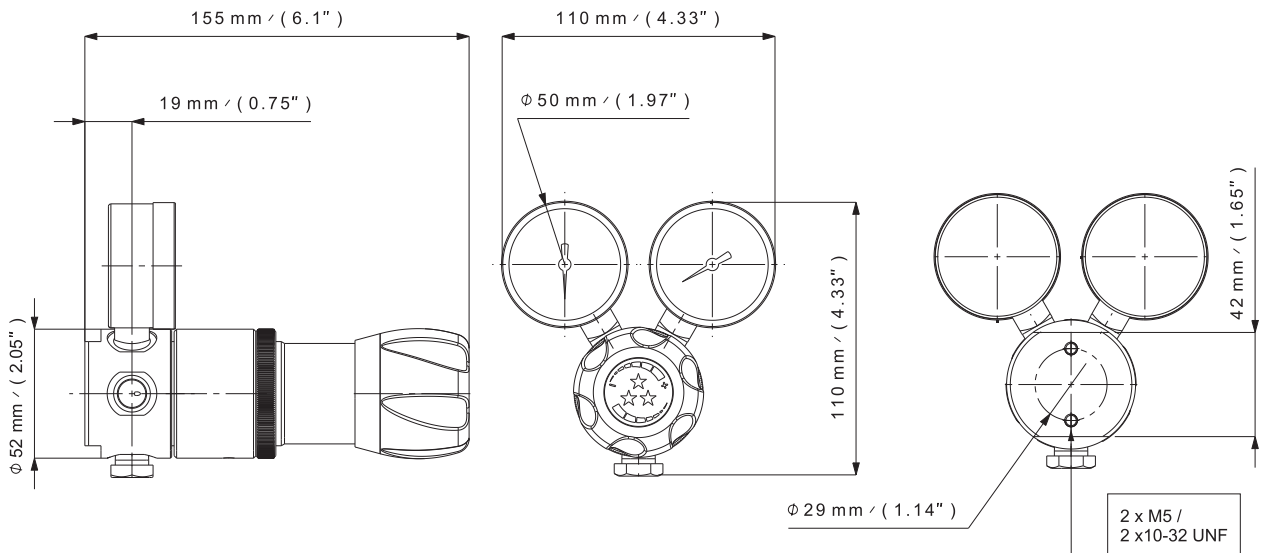
Special requirements on request

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

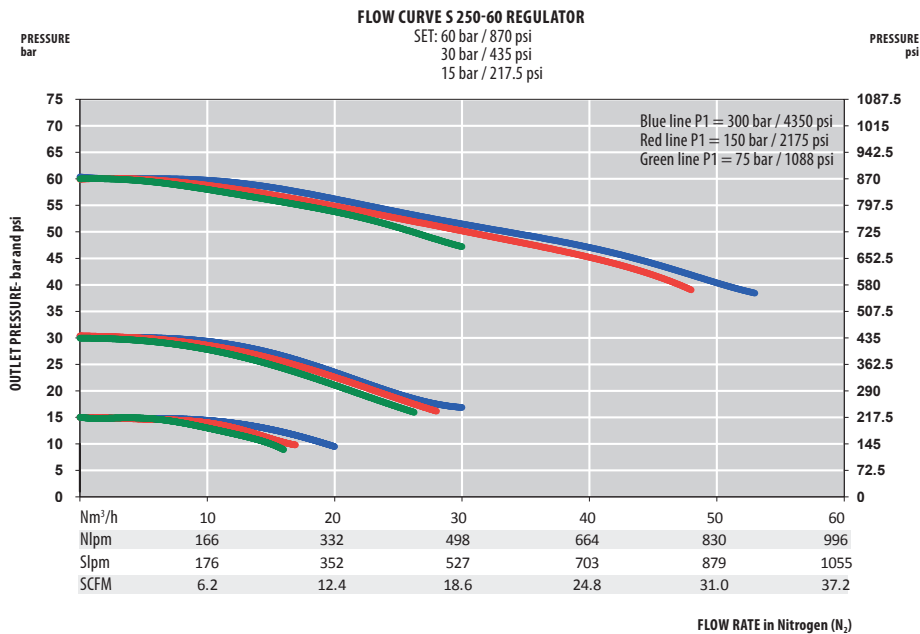
- Decompression of the downstream regulation system by turning the hand wheel counter-clockwise (SL 250).
- Accurate pressure control for reliable service.
- The SLS 250 version has a connection available so that a relief valve can be installed.
- Panel mounting possible due the rear threads.
- Can also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



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

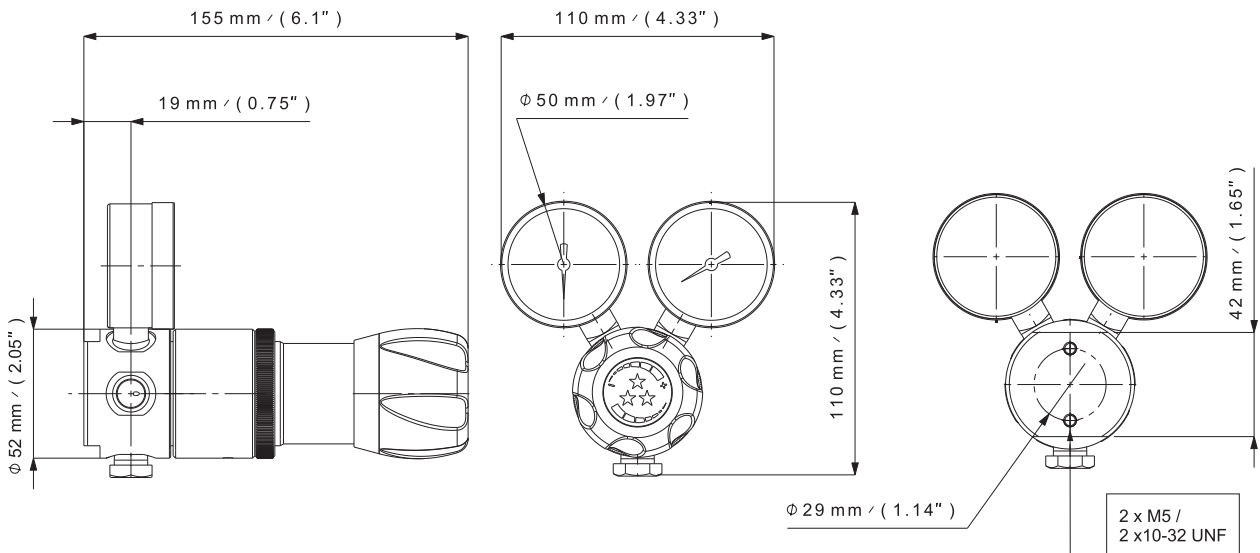
Special requirements on request

APPLICATIONS

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

KEY FEATURES

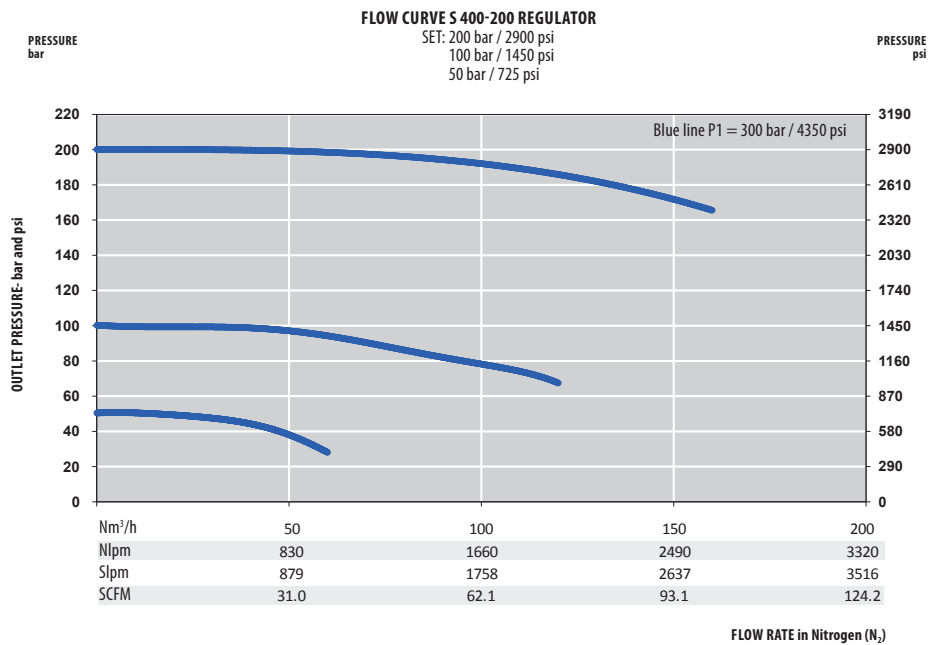
- Similar to the series S250 but with a higher possible outlet pressure (200 bar)
- Decompression of the downstream regulation system possible by turning the hand wheel counter-clockwise (SL 400).
- Accurate pressure control for reliable service.
- The SLS 400 version has a connection available so that 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.



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

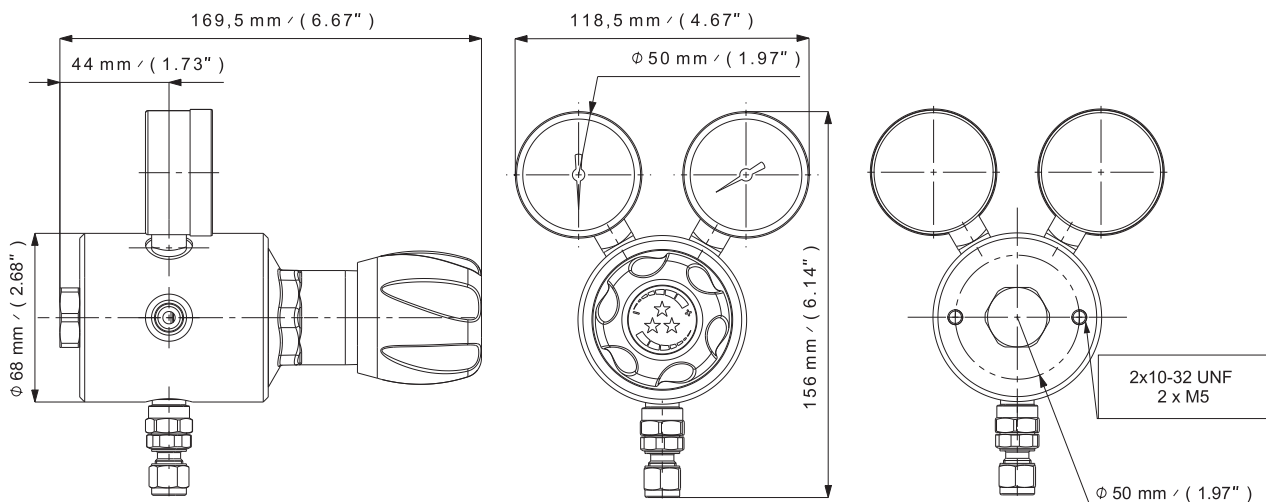
Special requirements on request

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

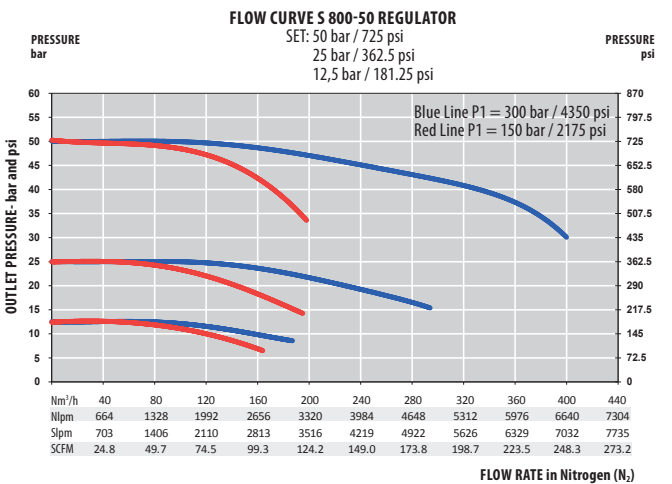
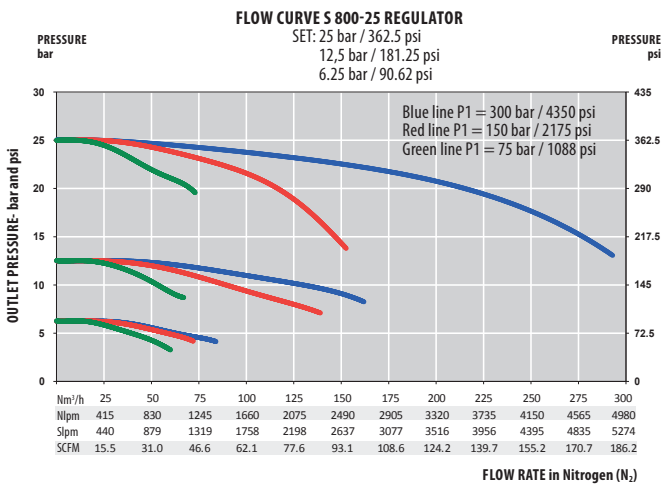
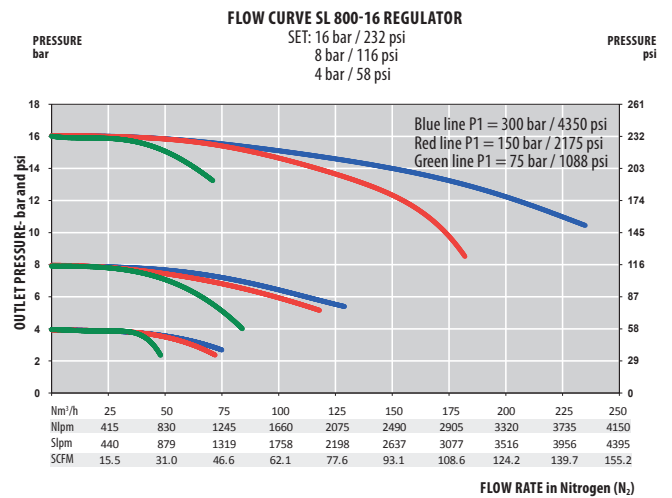
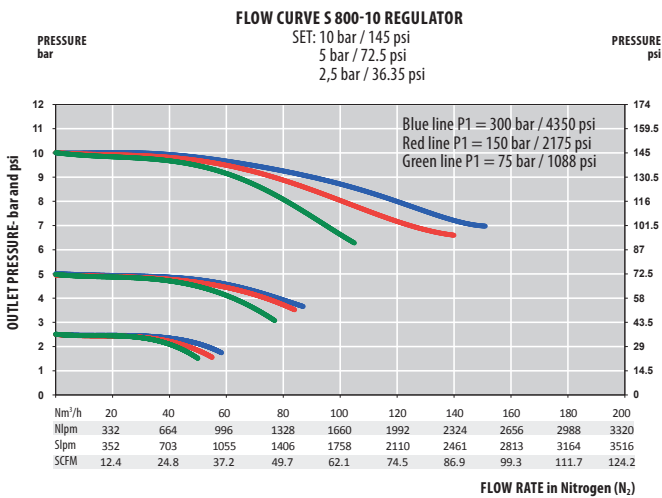
- Best-in-class pressure control with Balanced-Valve Technology: the effect of inlet pressure fluctuations on outlet pressure are minimized. The BV-technology enables the delivery of a very stable outlet pressure and flow even with high flow.
- BV Technology also increases the useful lifetime of the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

| Body Material | | Outlet Pressure | End Connections | O-ring Material | Gauges | | | |
|---------------|---------------------|-----------------|---------------------|-----------------|--------------------|-----------------|---------|---|
| S | L | 800 | 16 | N | EPDM | 1 | | |
| | Raw brass | LB | 10 bar 145 psi | 16 | 16 x 1.336 - G 3/8 | EPDM - Standard | Without | 0 |
| | Chrome plated brass | L | 16 bar 232 psi | 16 | 1/4 NPT - 1/4 NPT | 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)

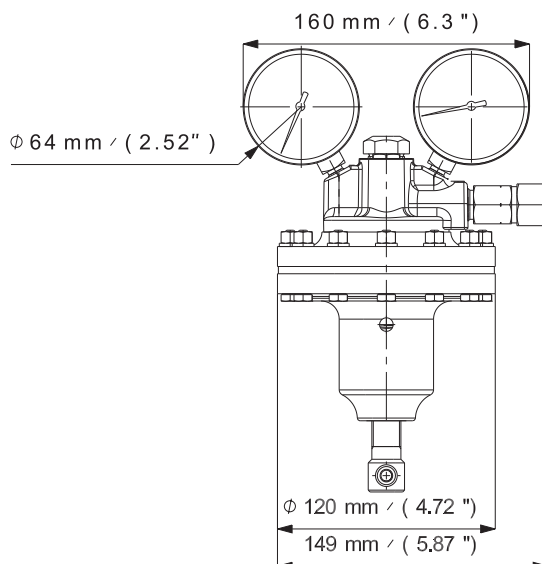
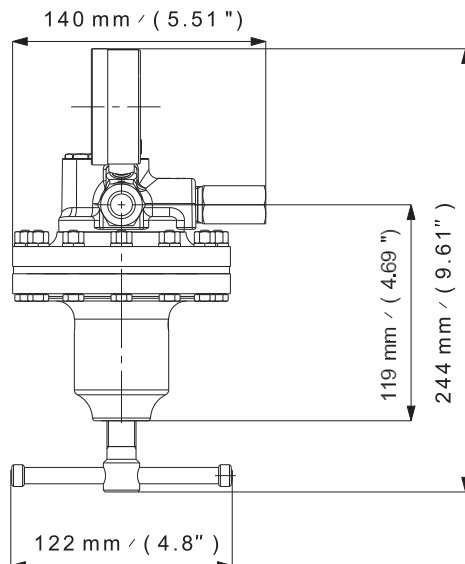
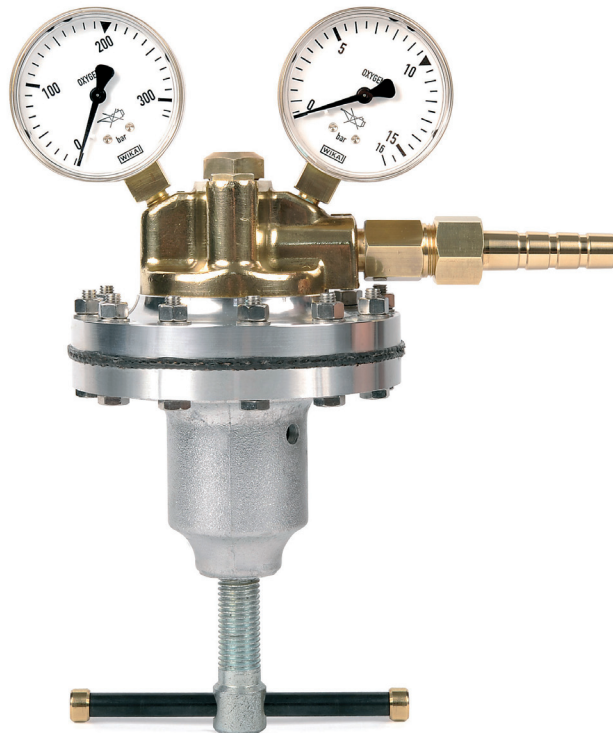
Special requirements on request

APPLICATIONS

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

KEY FEATURES

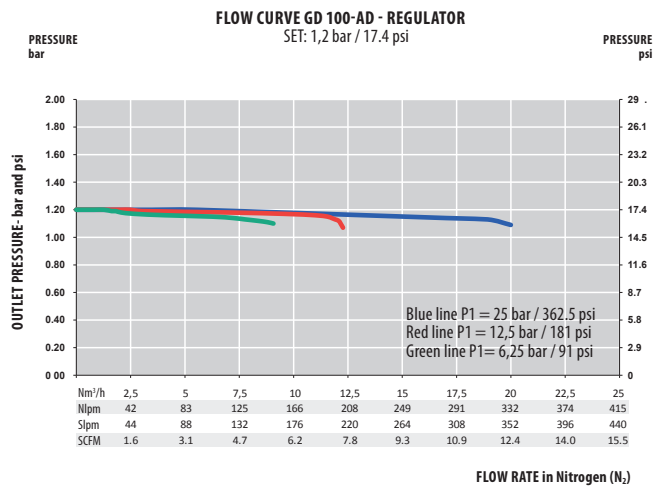
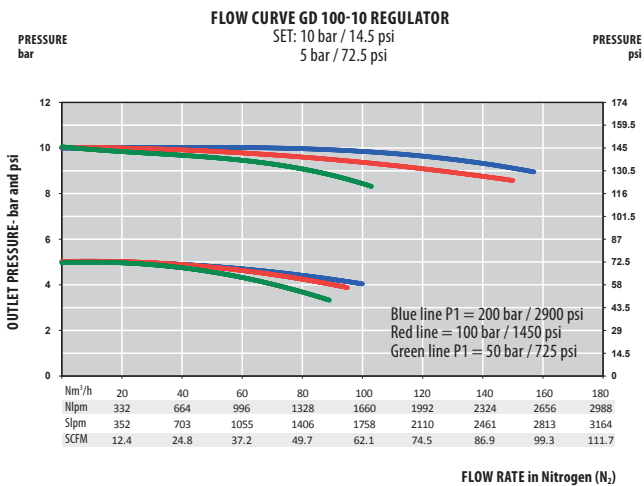
- Exceptionally durable
- Acetylene version available:
P1=25 bar / P2=1,2 bar / Q=10 Nm³/h.
- If used with acetylene, this product must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream.
- Medical CE version available (see Meditec catalogue).



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

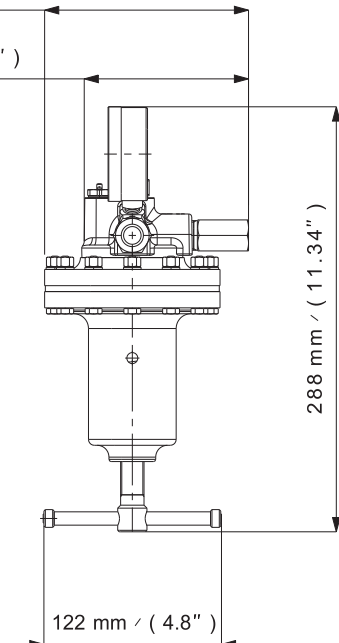
KEY FEATURES

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



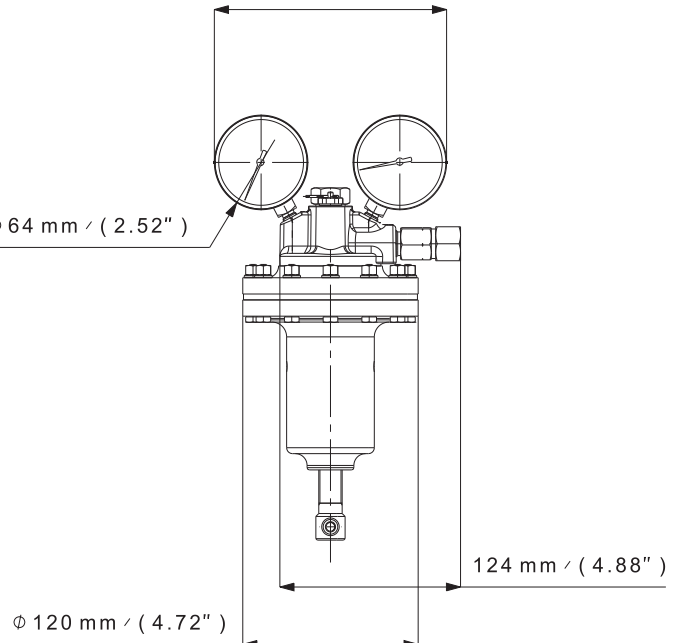
140 mm / (5.51")

113 mm / (4.45")



160 mm / (6.3")

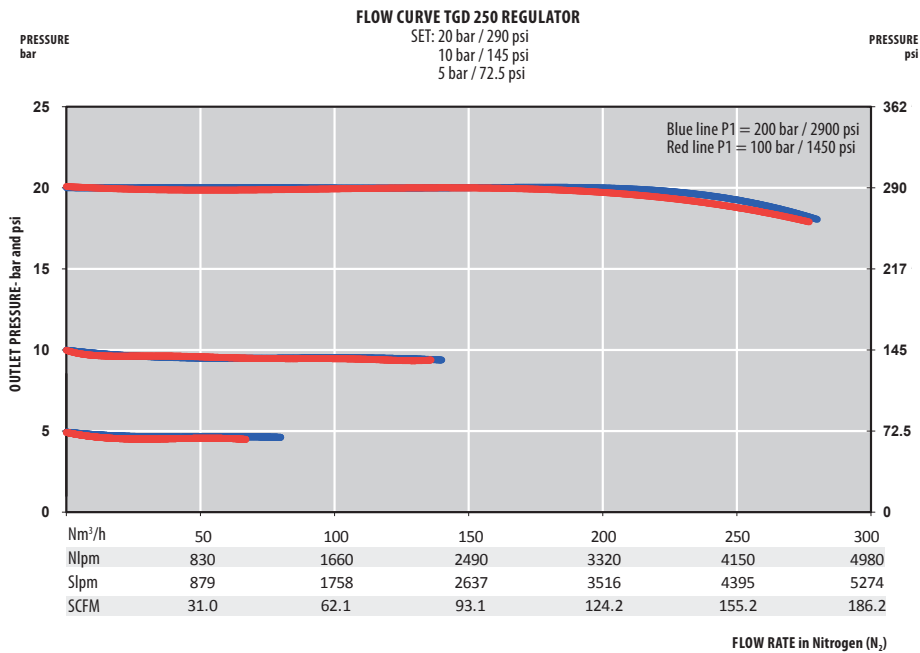
Ø 64 mm / (2.52")



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 | 16 | Without | 0 |
| | | 16 x 1.336 | 16 | 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

APPLICATIONS

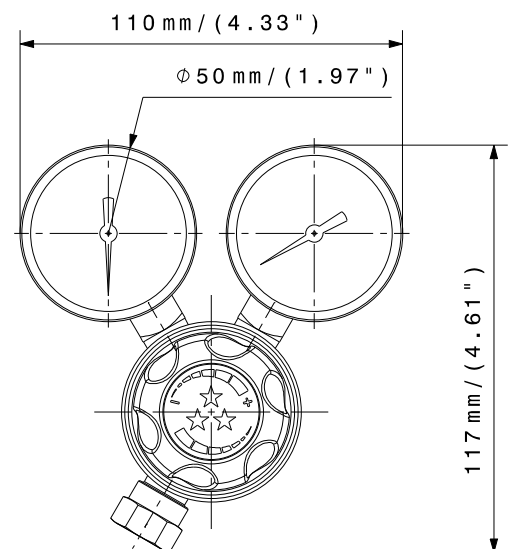
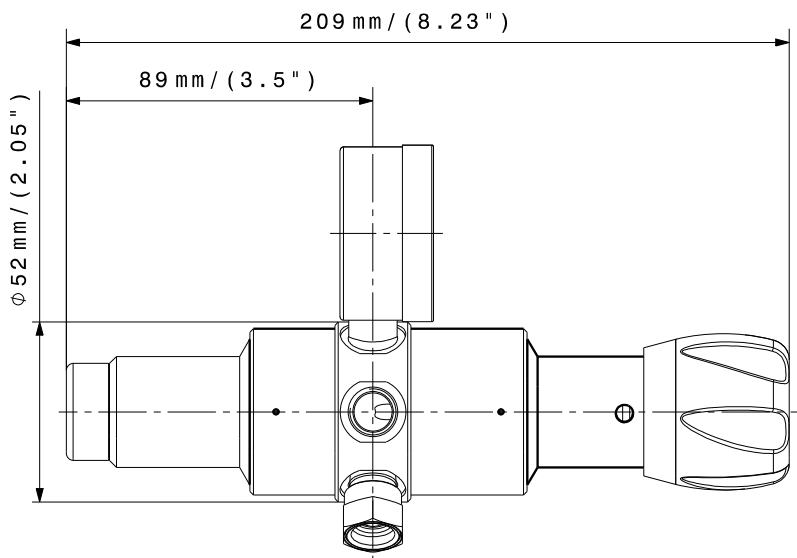
This regulator is ideally suited as cylinder regulator for pure, inert and corrosive gas applications such as analytical instrumentation.

- 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

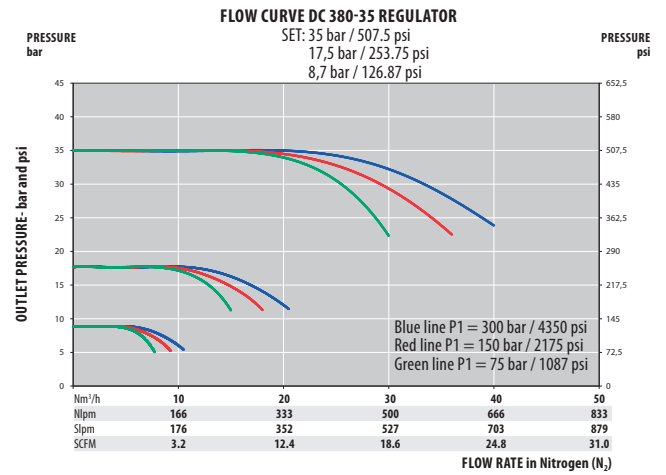
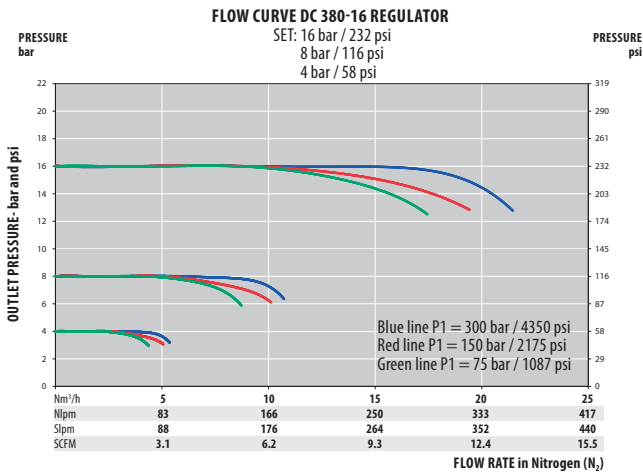
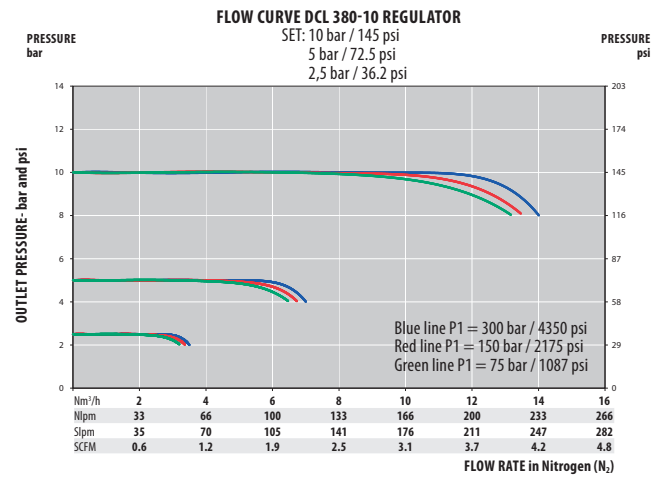
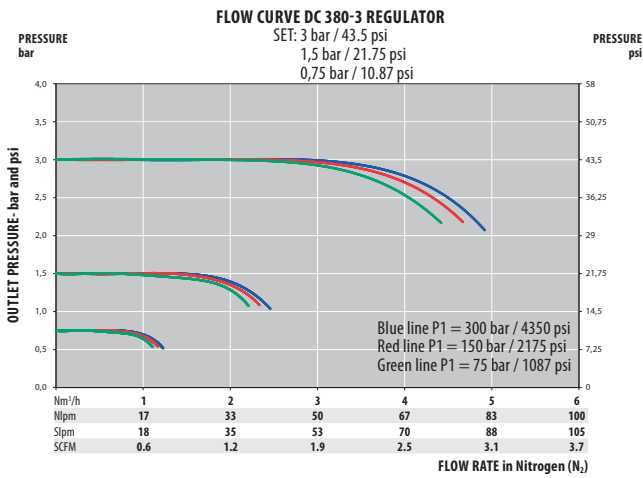
*Other on demand



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

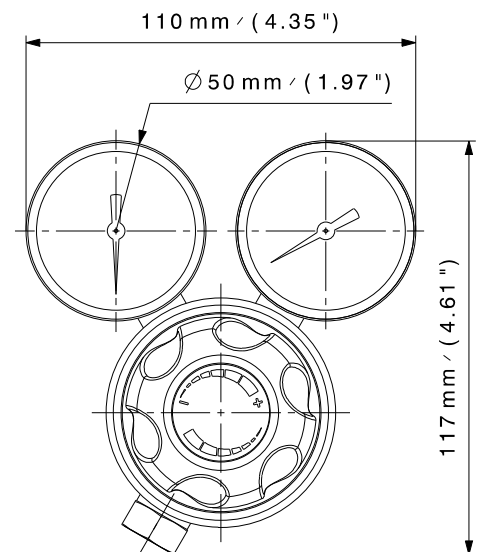
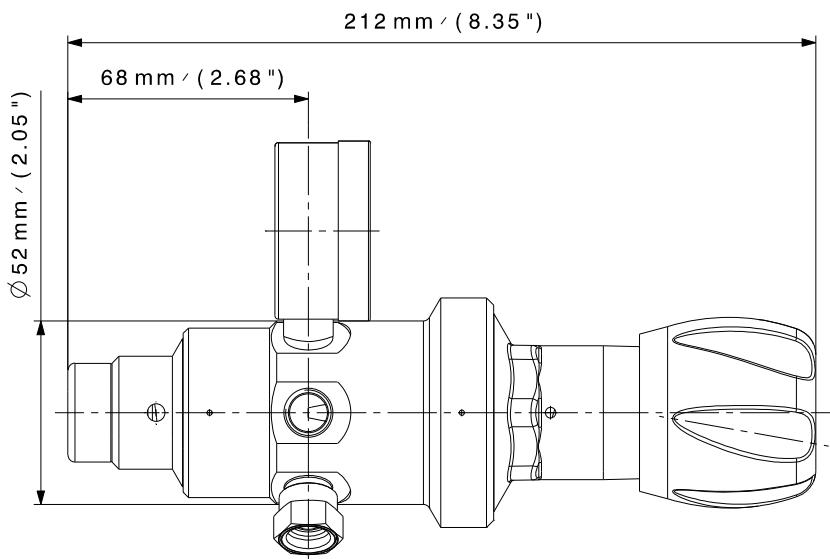
Special requirements on request

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

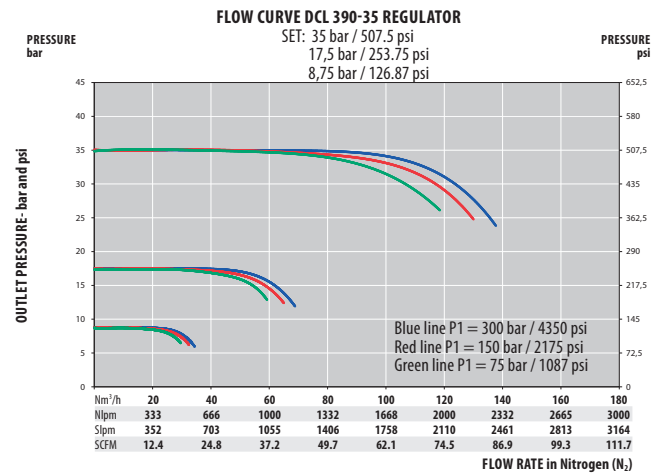
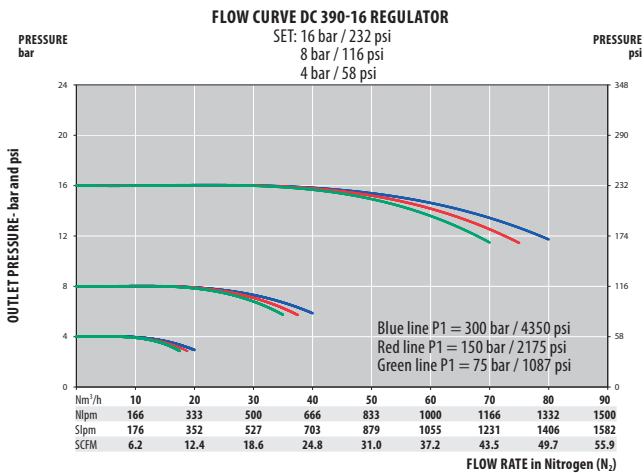
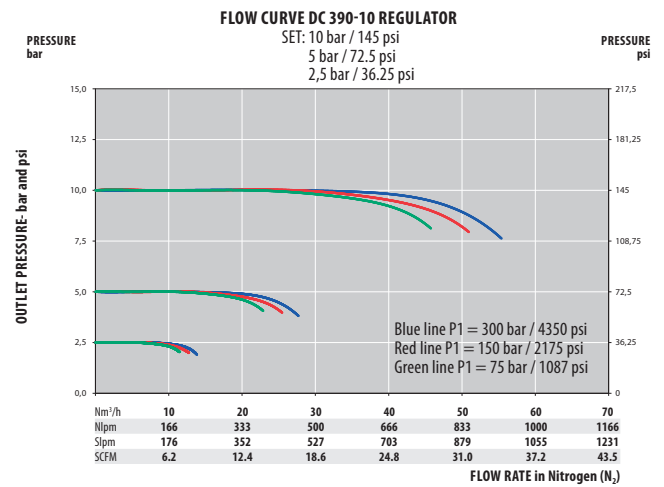
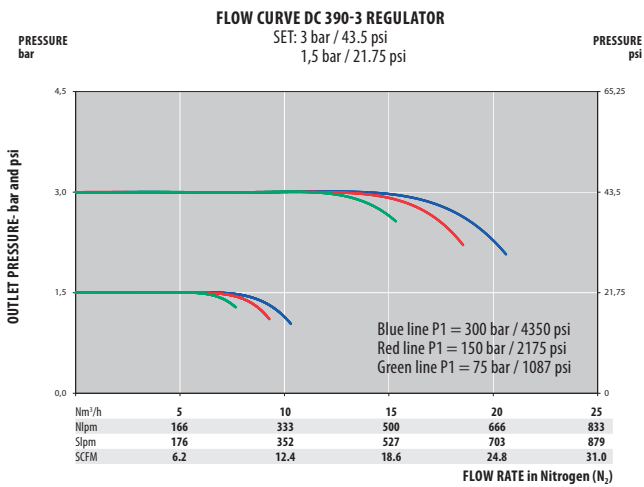
- This dual stage regulator is based on the Cartridge seat Technology.
- This regulator is an accurate pressure control for reliable service.
- Ideally designed for cylinder regulator applications.
- Regulator designed for high flow applications
- Compact and lightweight designed high pressure regulator.
- 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

| DC | Body Material | Inlet Pressure | Port Configuration | Outlet pressure | Inlet Connection | Outlet Connection | Gauges | Gas Type |
|----|---------------------|---------------------|--------------------|----------------------|------------------------------------|---------------------------------------|---------|----------|
| | 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 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

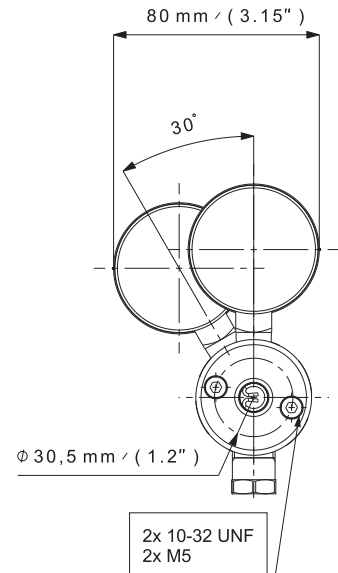
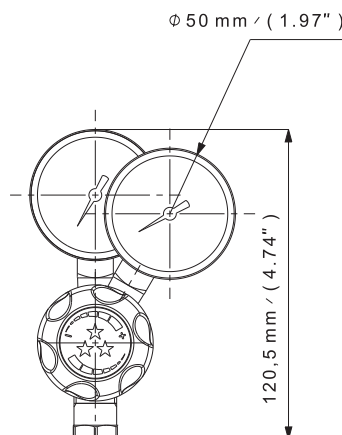
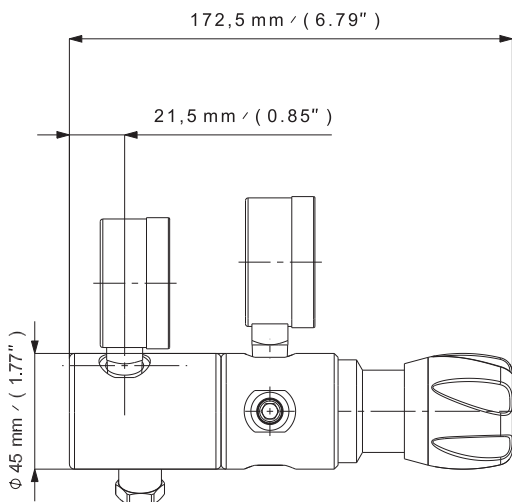
Special requirements on request

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

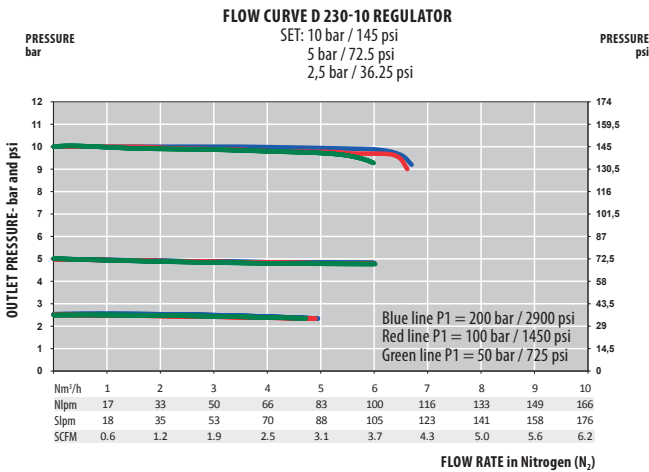
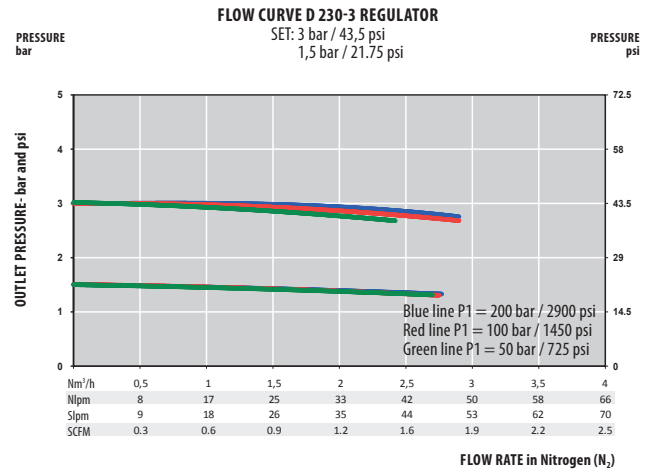
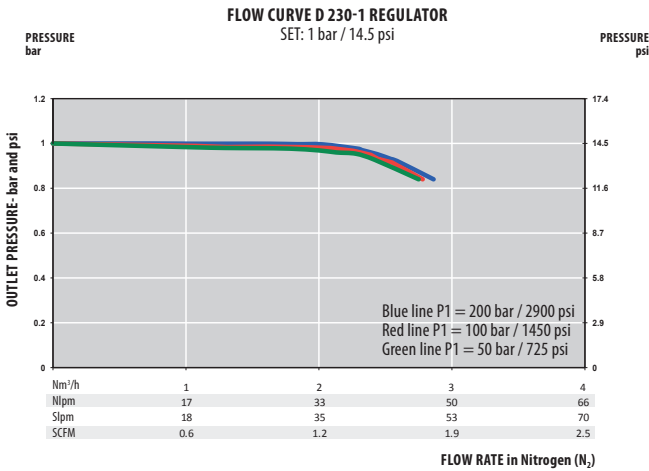
- The D 230 regulator is based on the S 20 proven bellow technology.
- Accurate pressure control for reliable service and guarantees a stable outlet pressure due to the combination of the piston and bellow technology.
- Compact and lightweight design.
- Fixed outlet pressure version available.



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

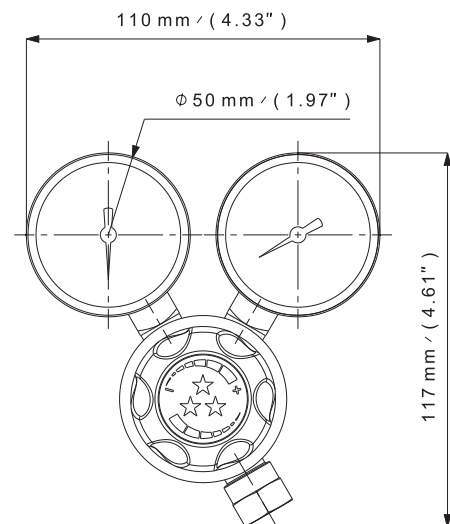
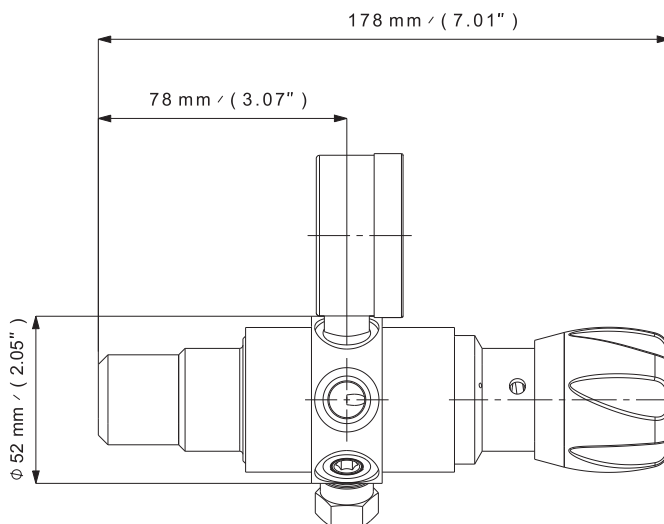
- Designed for cylinder regulator applications.
- Ideally suited for pure, inert and mildly corrosive gas applications requiring a very stable outlet pressure together with a very sensitive set up of this outlet pressure.

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.



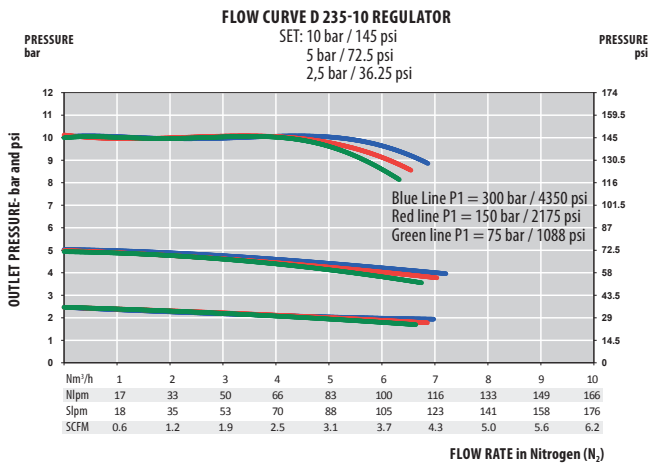
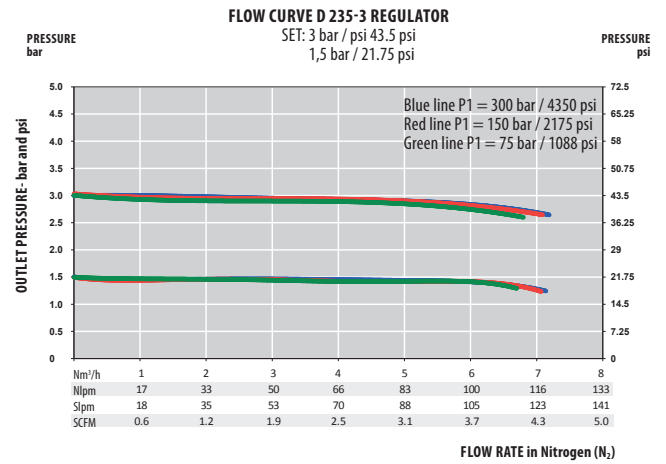
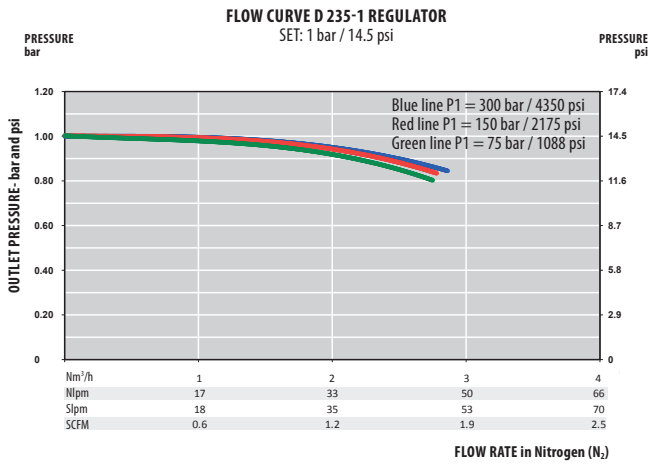
Front view



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

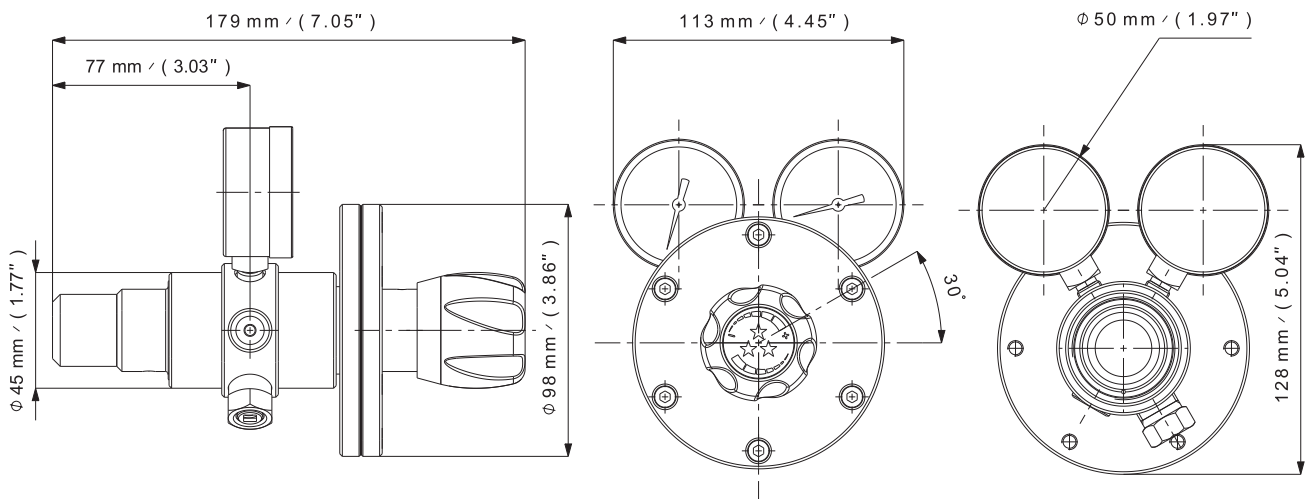
Special requirements on request

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

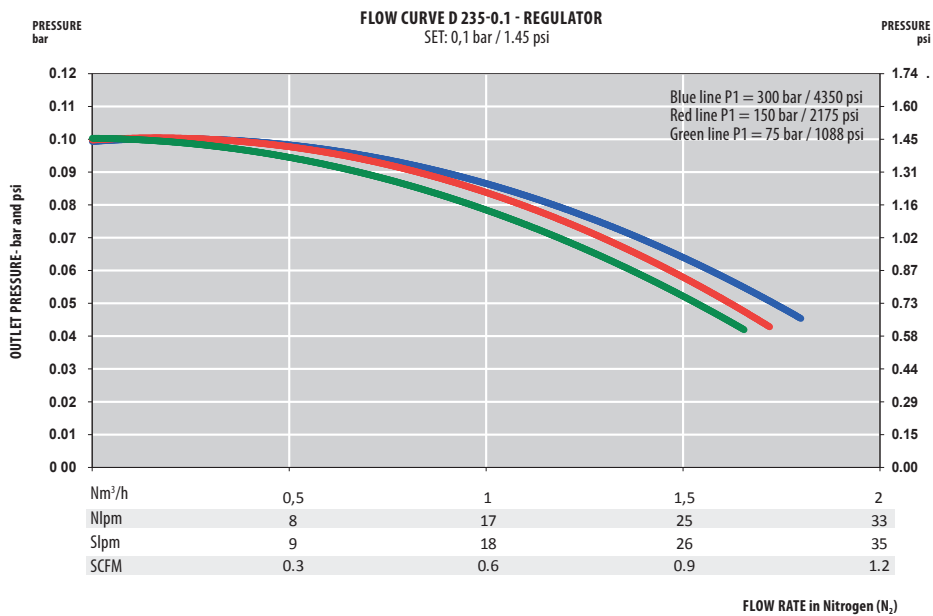
- The DL 235-0.1 regulator is based on the SL 20-0.1 proven low pressure regulator.
- Guarantees a stable low flow due to the large diaphragm.
- Could be also equipped with a needle or shut off valve at the outlet.



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 | EPDM - Standard | Without |
| | | | | 16 | | 0 |
| | | | | 1/4 NPT (inlet/outlet) | NBR | With |
| | | | | N | | 1 |
| | | | | | FPM | |

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

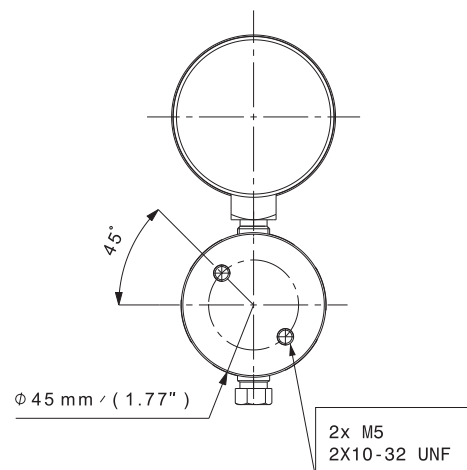
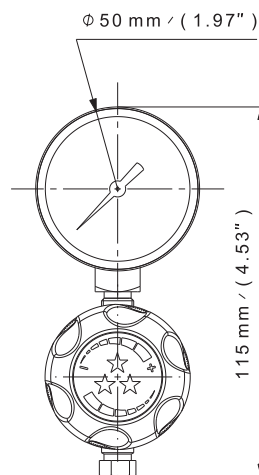
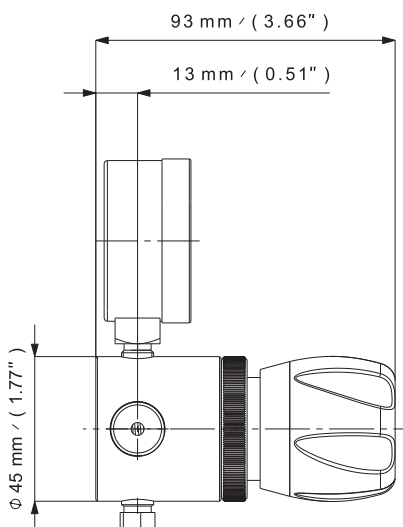
Special requirements on request

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

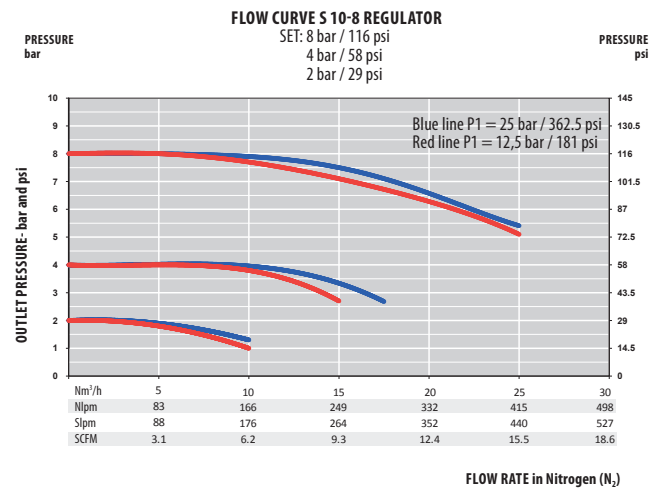
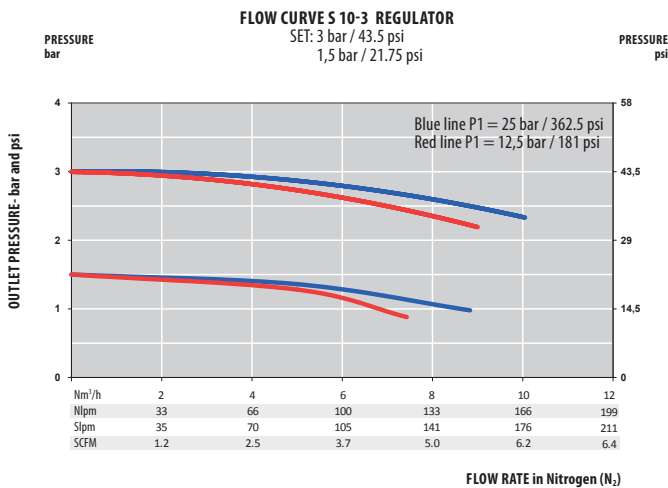
- As a second level of regulation, the SL 10 will supply a precise outlet pressure to the process. It can be used for many applications that need a high flow.
- Flexible wall or panel mounting possible with its compact design, the rear threads and fixing ring.
- Best-in-class pressure control with Balanced-Valve 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

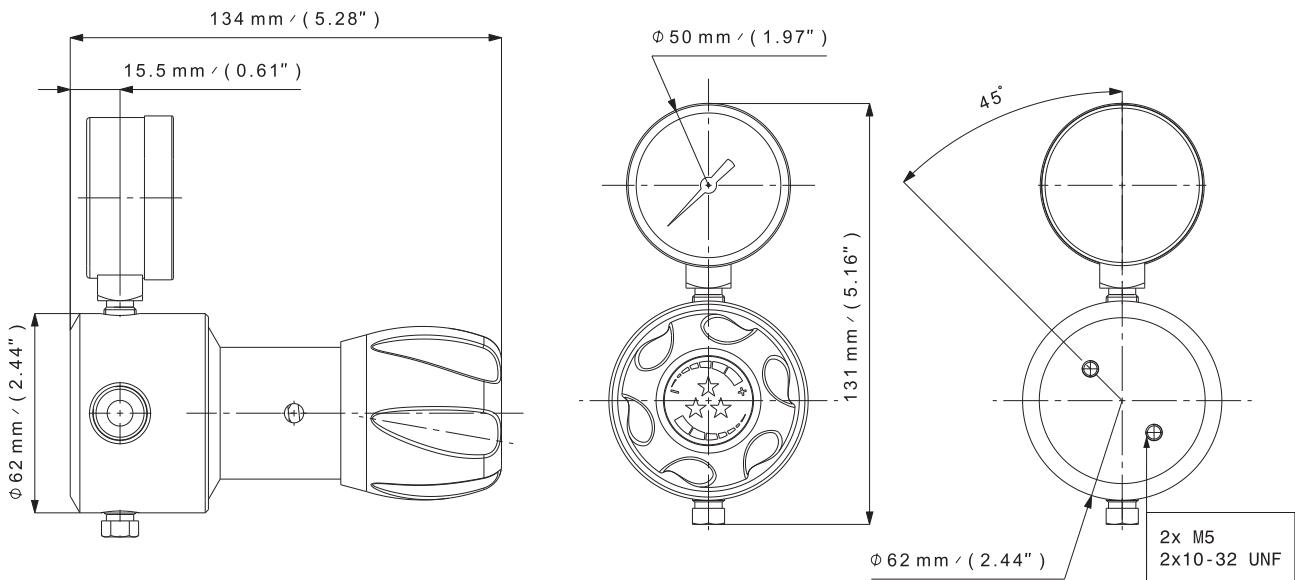
Special requirements on request

APPLICATIONS

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

KEY FEATURES

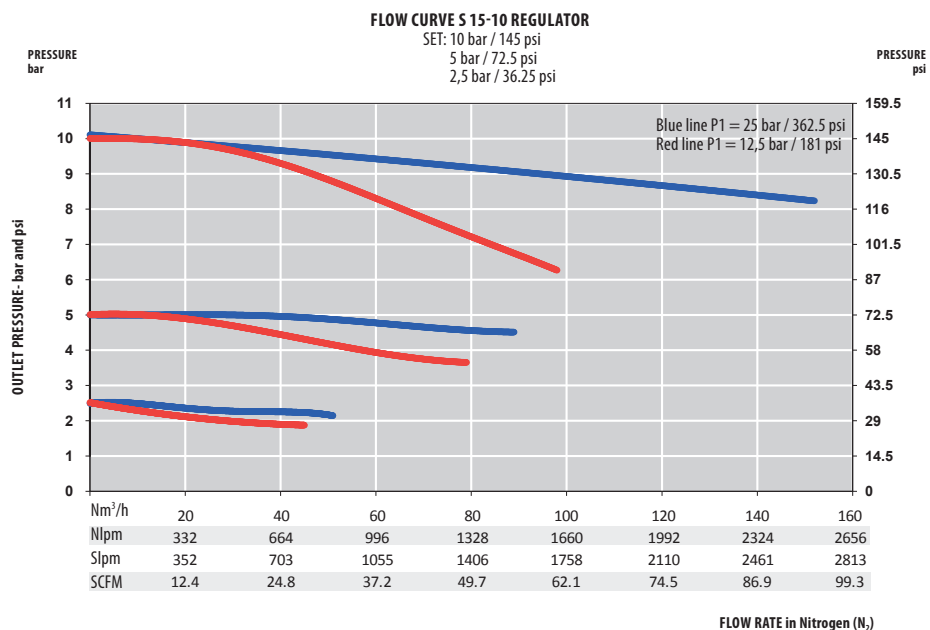
- As a second level of regulation the S 15 will supply a precise outlet pressure to the process.
- Can be used for wall or panel mounting with its compact design, the rear threads and fixing ring.
- Best-in-class pressure stability with Balanced-Valve Technology (Balanced-Valve Technology): the effect 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 | 10 | G 3/8 - G 3/8 | G | Without | 0 | Standard Configuration | A |
| | Stainless steel | 145 psi | | 1/4 NPT - 1/4 NPT | N | With | 1 | Reverse inlet/outlet | R |
| | | | | | | | | | EPDM |

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)

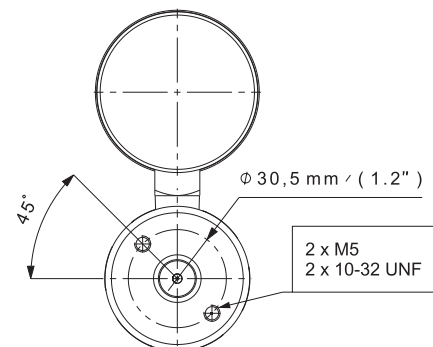
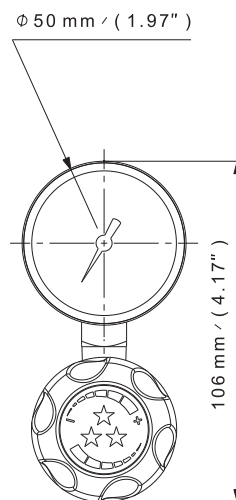
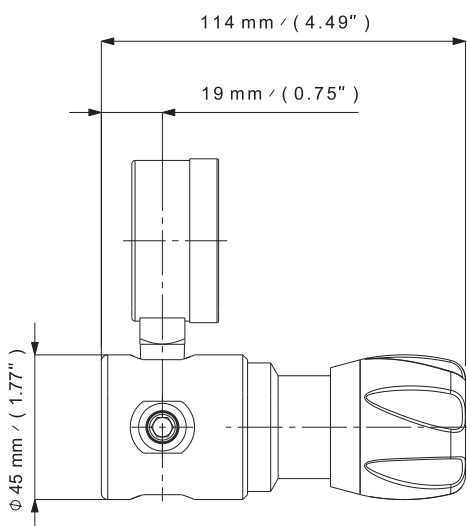
Special requirements on request

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

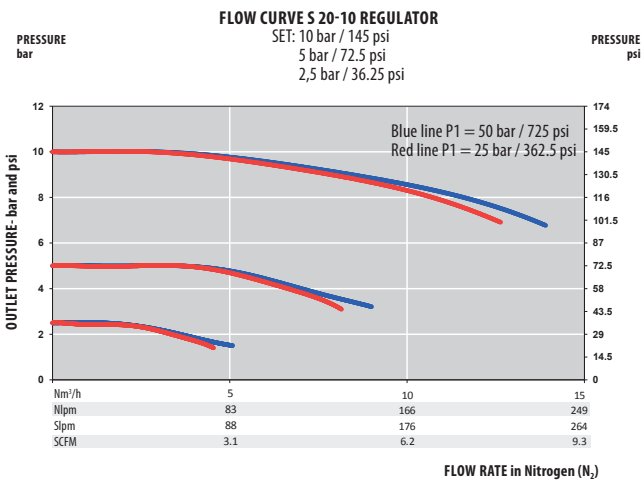
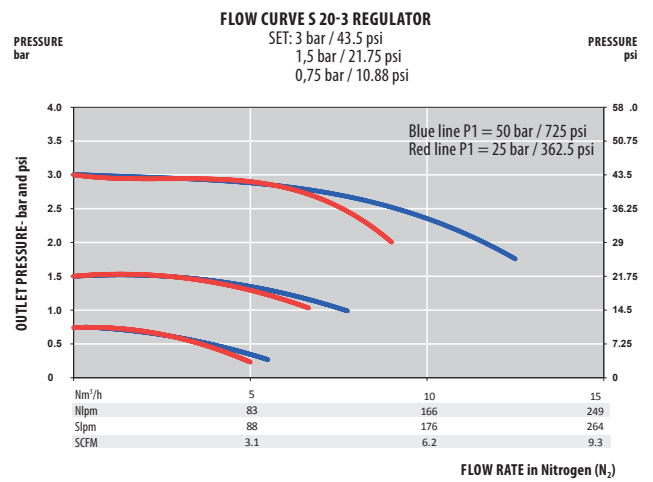
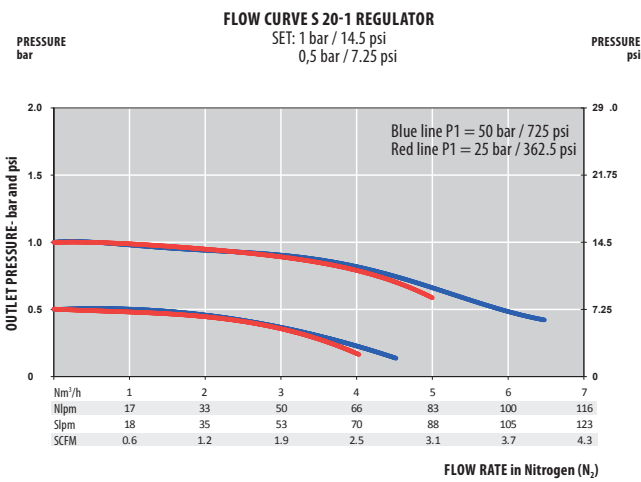
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- With its compact design, the rear threads and its fixing ring (option) it can be used for wall or panel mounting.
- Acetylene version available: Series S 20 AD & S 25 AD
(See pages 66 and 68)



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 | G | EPDM | 1 | FR0 | A |
| | Chrome plated brass | 10 | G 3/8 - G 3/8 | EPDM - Standard | Without | Without Fixing Ring | Standard Configuration |
| | Stainless steel | 10 | 1/4 NPT - 1/4 NPT | NBR | With | With Fixing Ring | Reverse inlet/outlet |
| | | 10 | | FPM | | | |

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



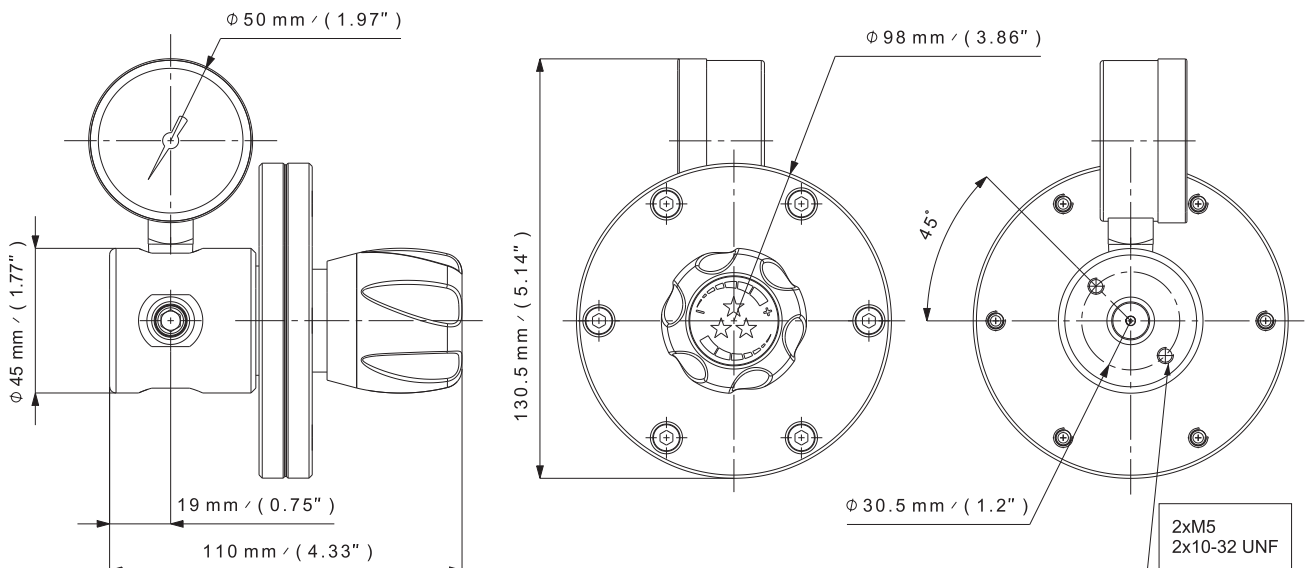
Rear inlet view

APPLICATIONS

- The Series S 20-0.1 is used as a line regulator for lab applications requiring a low outlet pressure less than 10 mbar (1.45 psi).

KEY FEATURES

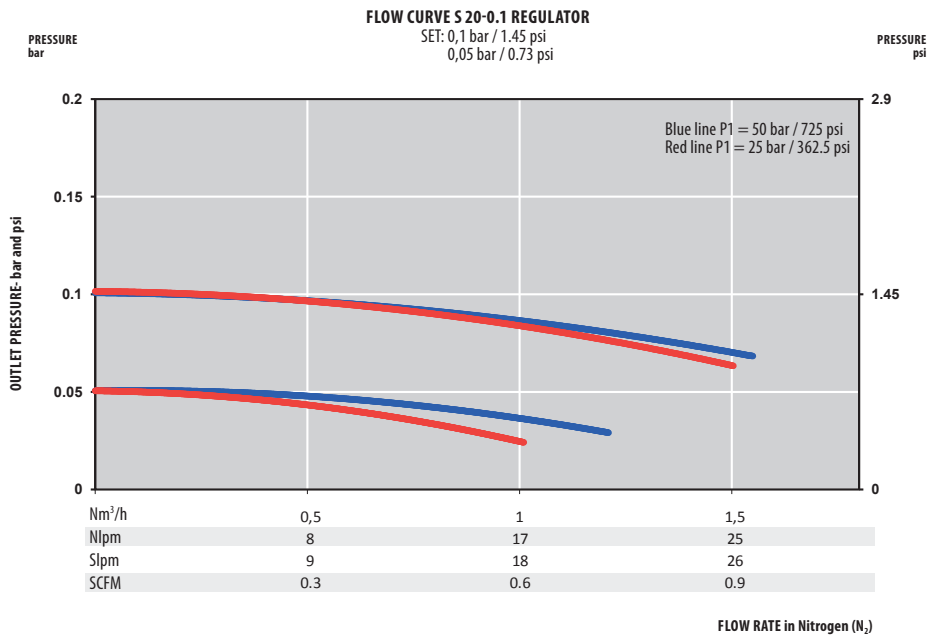
- With the rear threads, it can be used for wall mounting.



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

APPLICATIONS

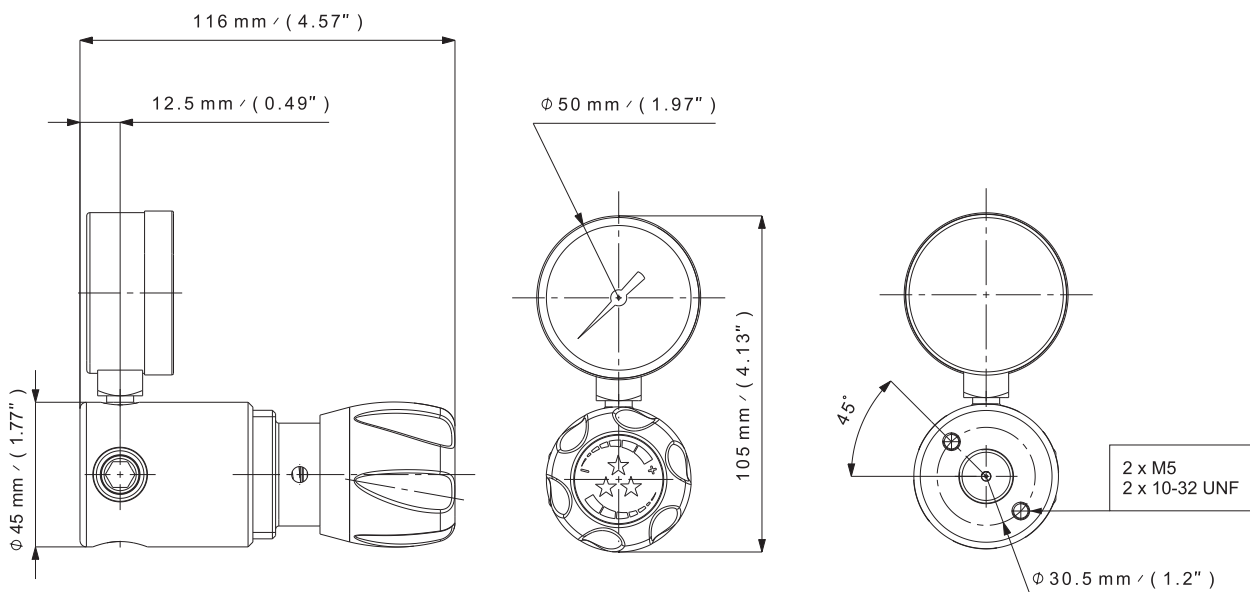
- Designed for line regulator applications in petrochemical, industrial and laboratory environments.
- Used in calibration gas mixtures for petrochemical industry; environmental emission monitoring, industrial hygiene or safety monitors and trace impurity analyzers.
- Also commonly used to oxygenate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



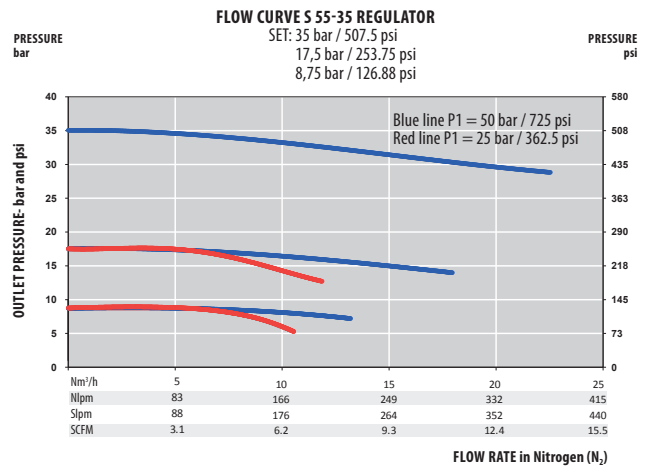
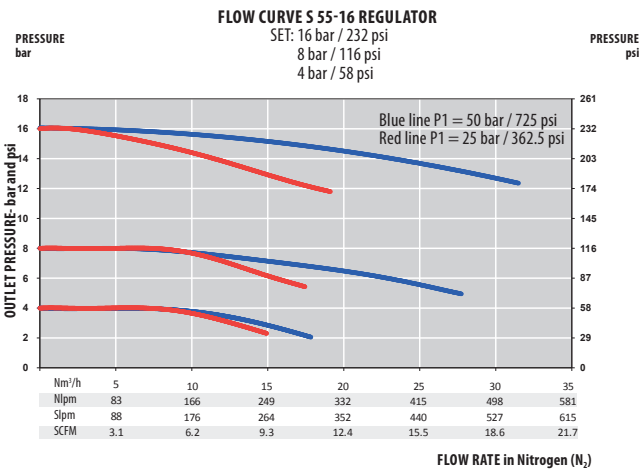
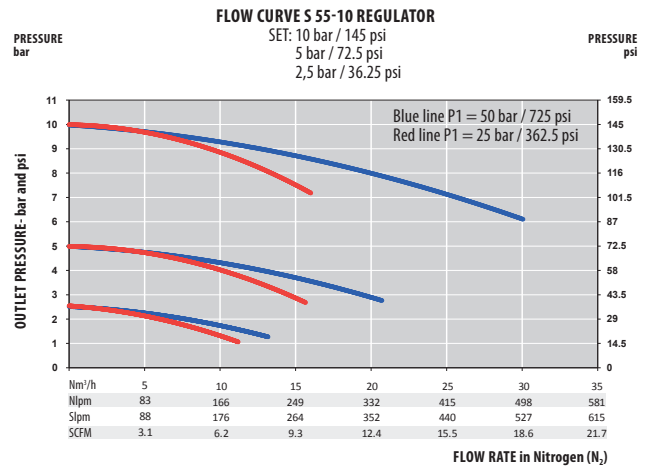
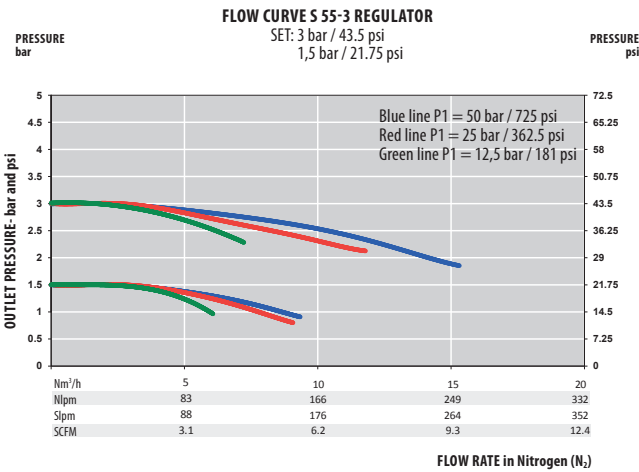
Rear inlet view



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 | | | | | | | | | |

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

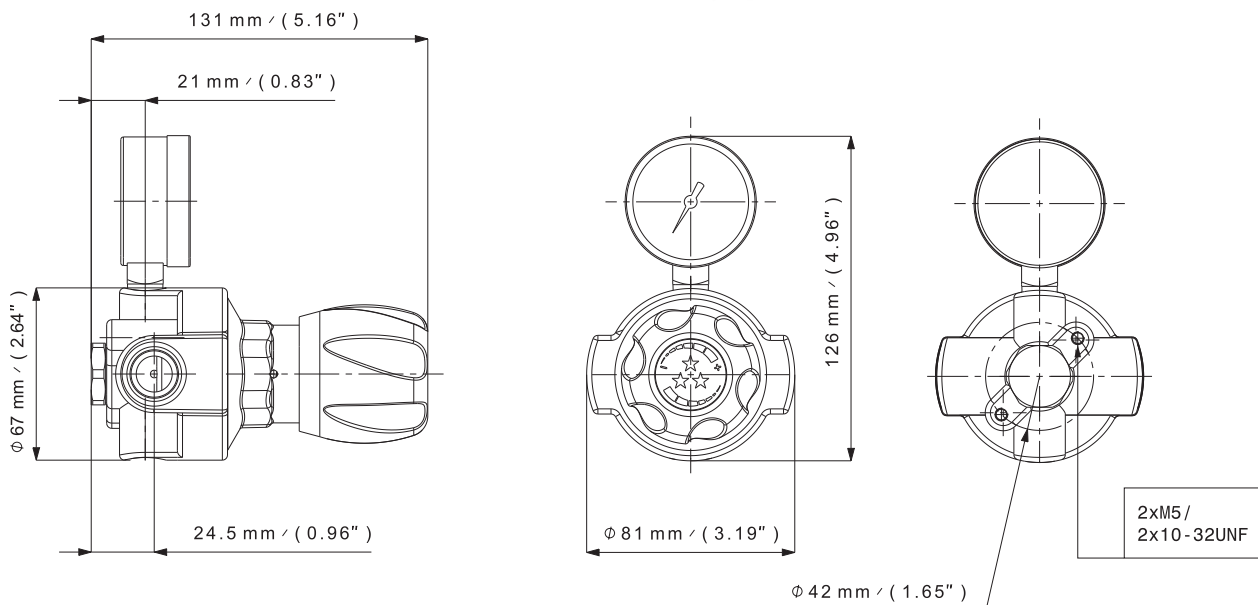
Special requirements on request

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

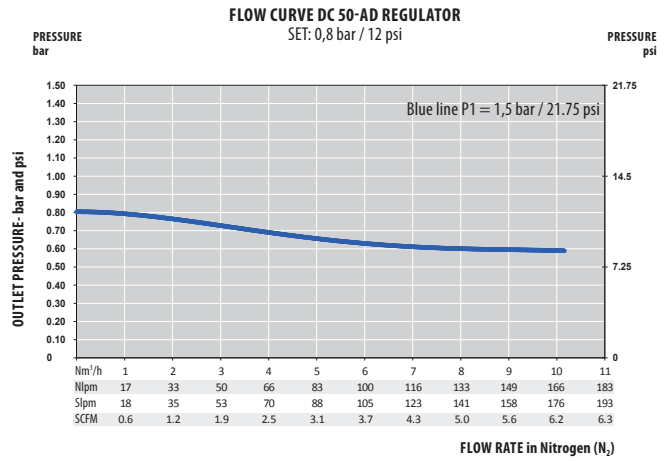
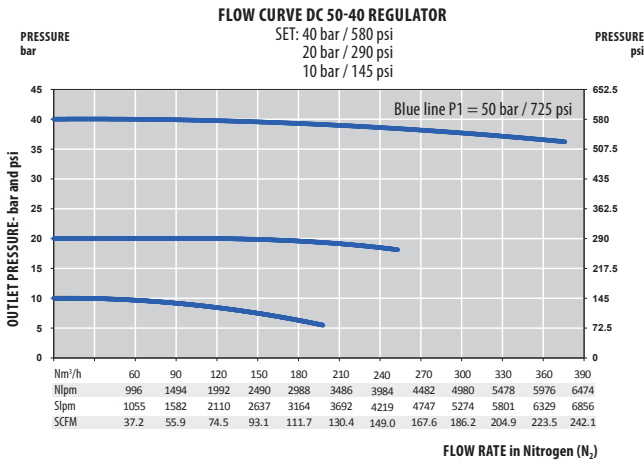
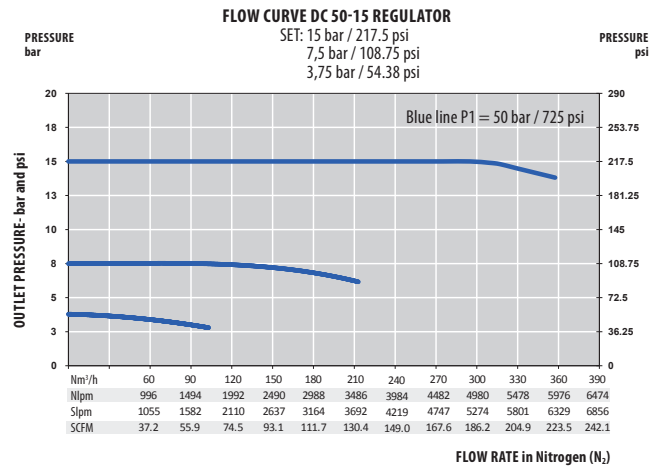
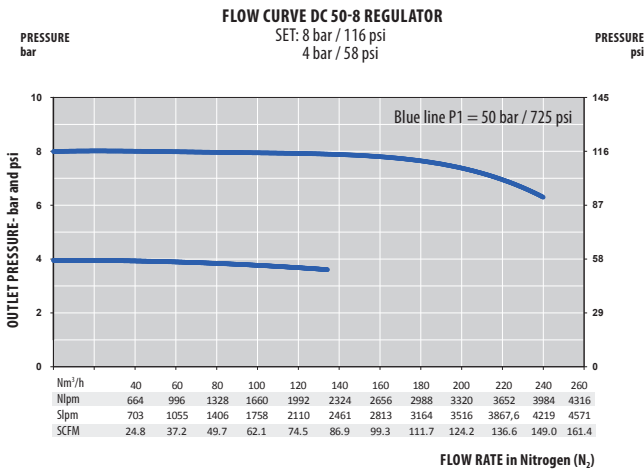
- Low pressure regulator with high flow, without vibration.
- Best-in-class pressure stability with Balanced-Valve Technology: the effect of inlet pressure fluctuations on outlet pressure is minimized. BV-technology enables the delivery of a very stable outlet pressure and flow even with high flow line 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

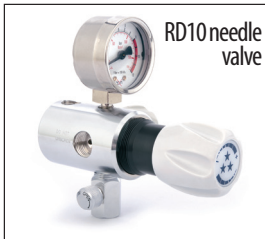
| | | | Outlet Pressure | End Connections | O-ring Material | Body Material | Gauges | | | | |
|---|---|----|---------------------------------------|-----------------|-----------------|---------------|-----------------|---------------------|----|---------|---|
| D | C | 50 | 40 | G | EPDM | L | 1 | | | | |
| | | | 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

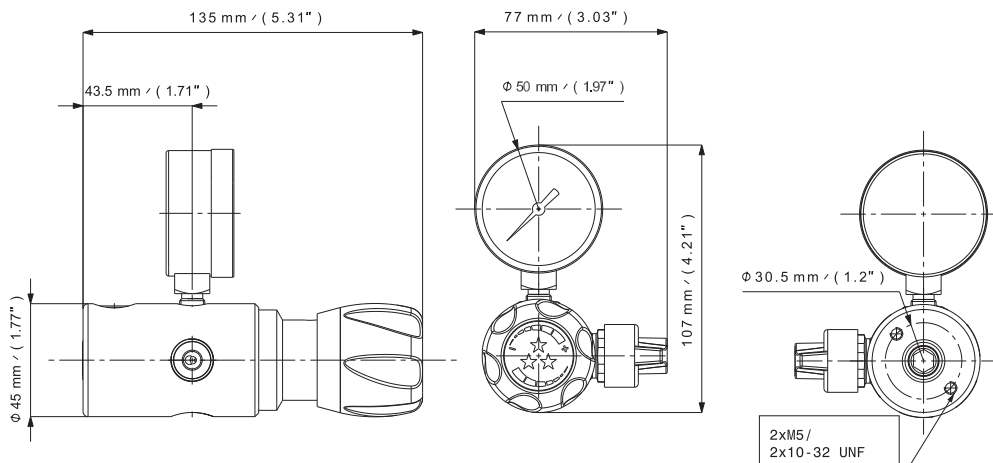


APPLICATIONS

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

KEY FEATURES

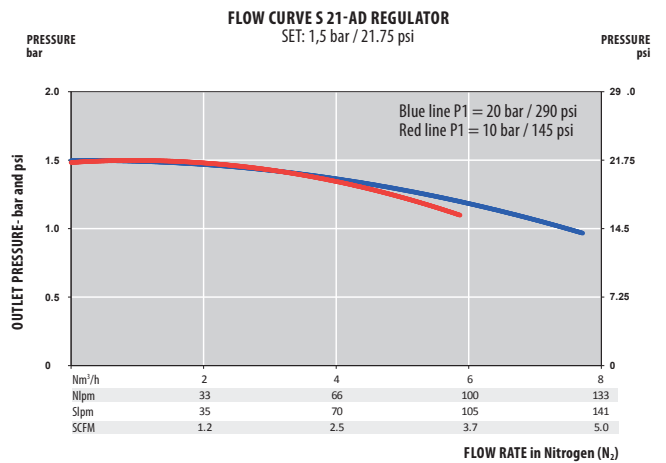
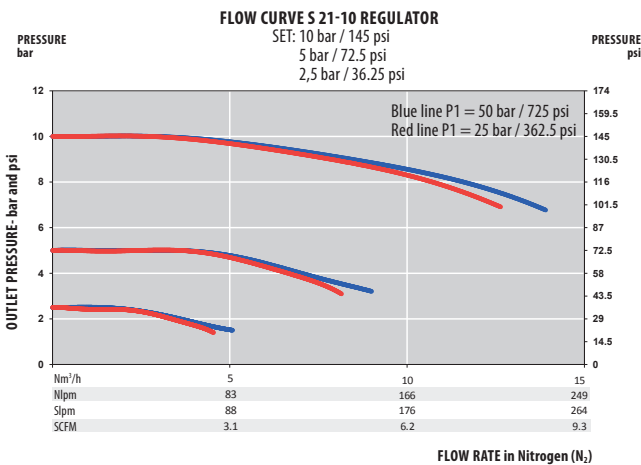
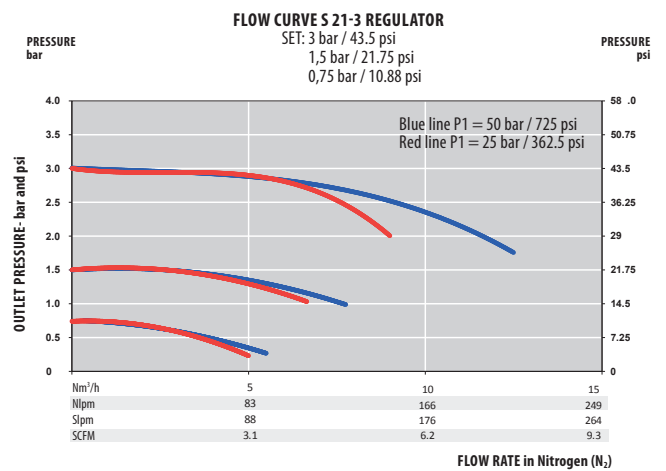
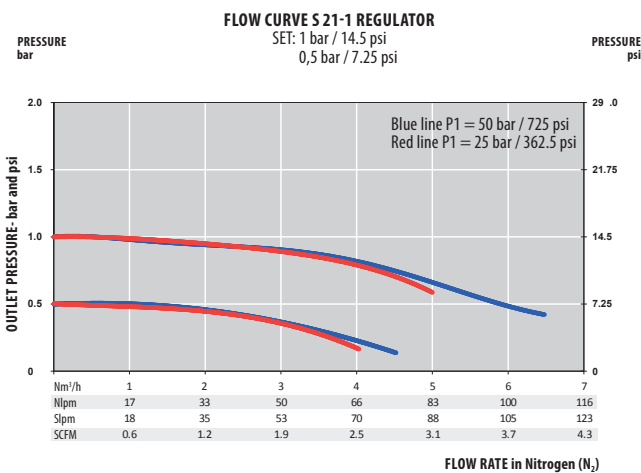
- Based on the Series S 20 technology.
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- With the rear threads and fixing ring (option) it can be used for wall or panel mounting.
- Acetylene version also available.
- For use with acetylene, this product must 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.



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



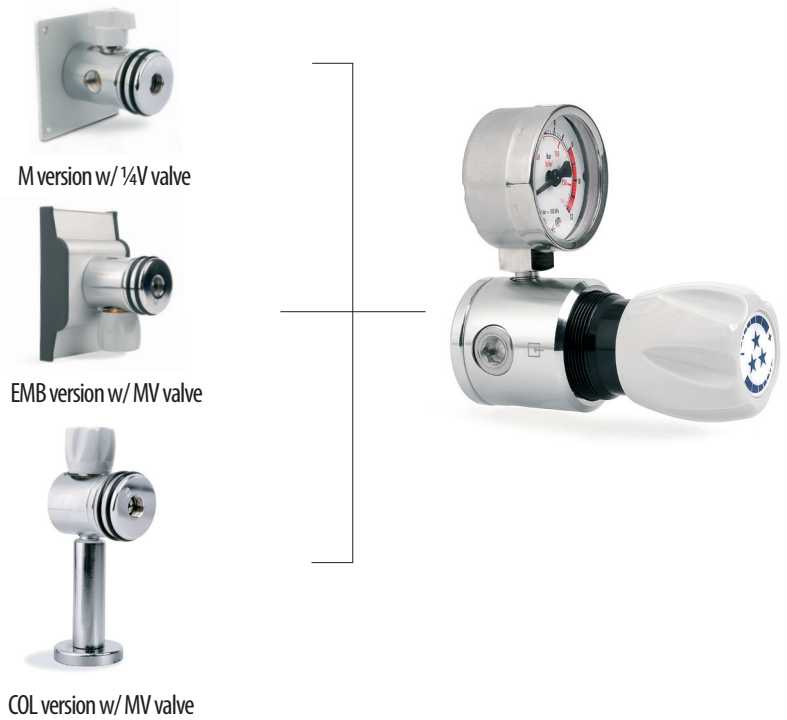
SLS22-EMB-10-G-EPDM-1-MV version

APPLICATIONS

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

KEY FEATURES

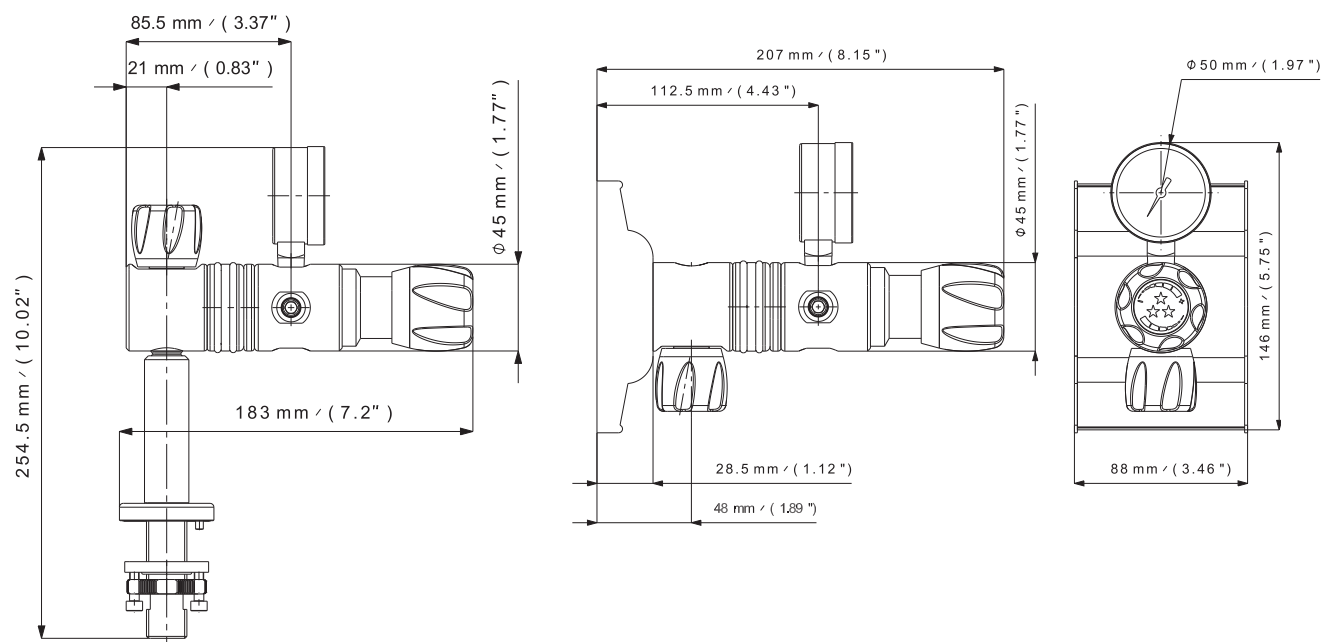
- Based on the Series 20 platform
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- Acetylene version also available.
- For use with acetylene, this product must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream.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



M version w/ 1/4V valve

EMB version w/ MV valve

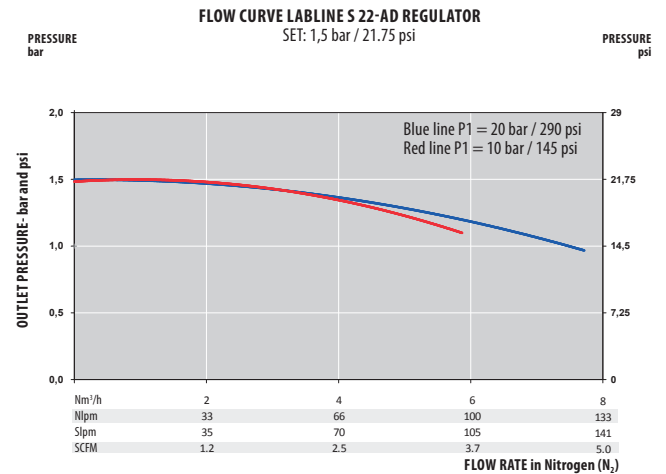
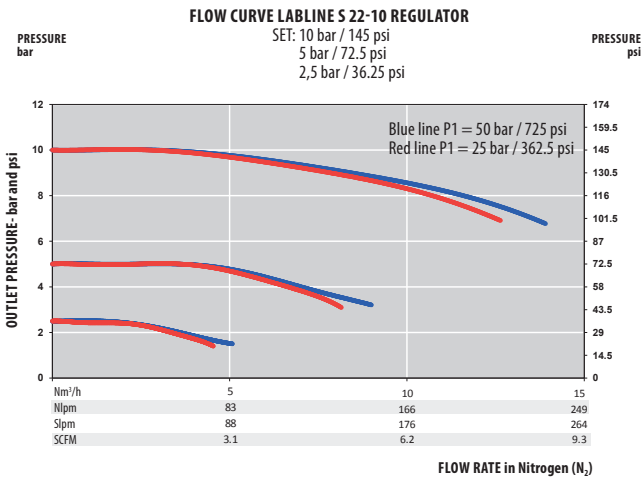
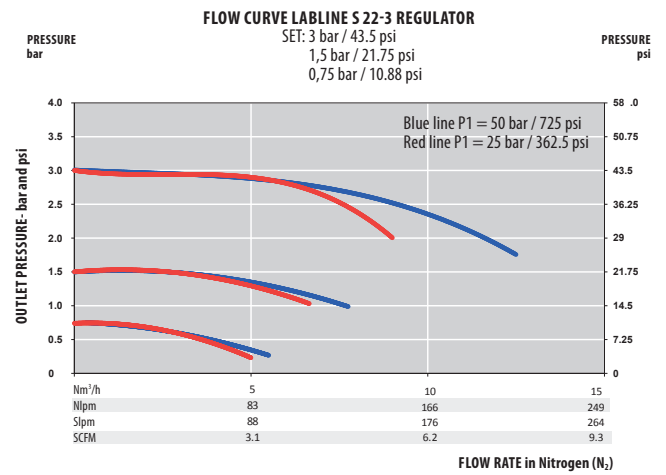
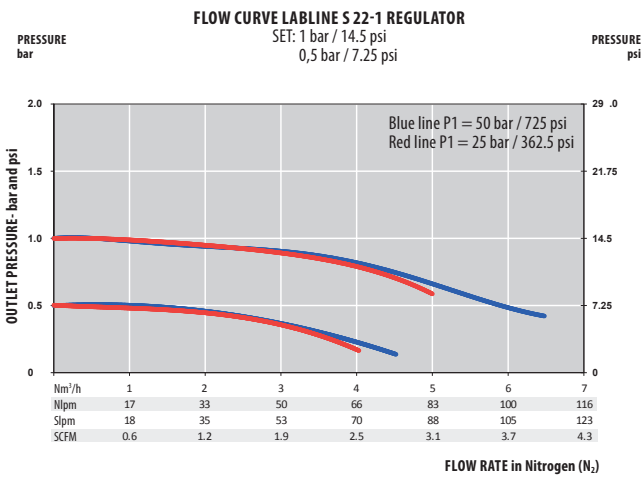
COL version w/ MV valve



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 | G ¾ - Female (outlet) | Without | 0 | ¼ turn valve | ¼V |
| | Stainless steel | With Aluminum stand | EMB | 3 bar / 44 psi | ¼ NPT (outlet) | With | 1 | Multi-turn valve | MV |
| | | With pillar* | COL | 10 bar / 145 psi | Note: inlet G ¼ with COL version | | | | |
| | | | 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

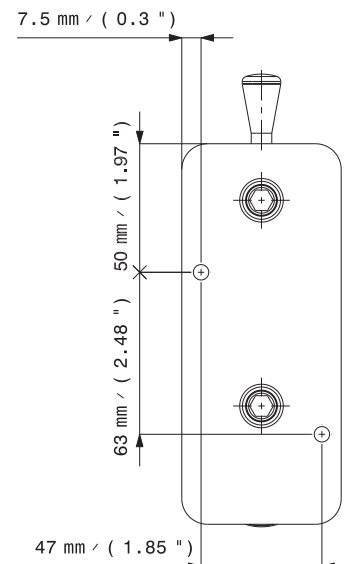
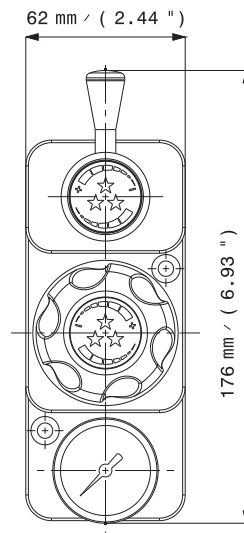
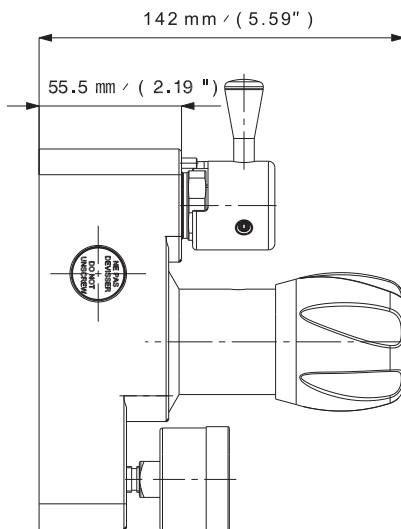
Special requirements on request

APPLICATIONS

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

KEY FEATURES

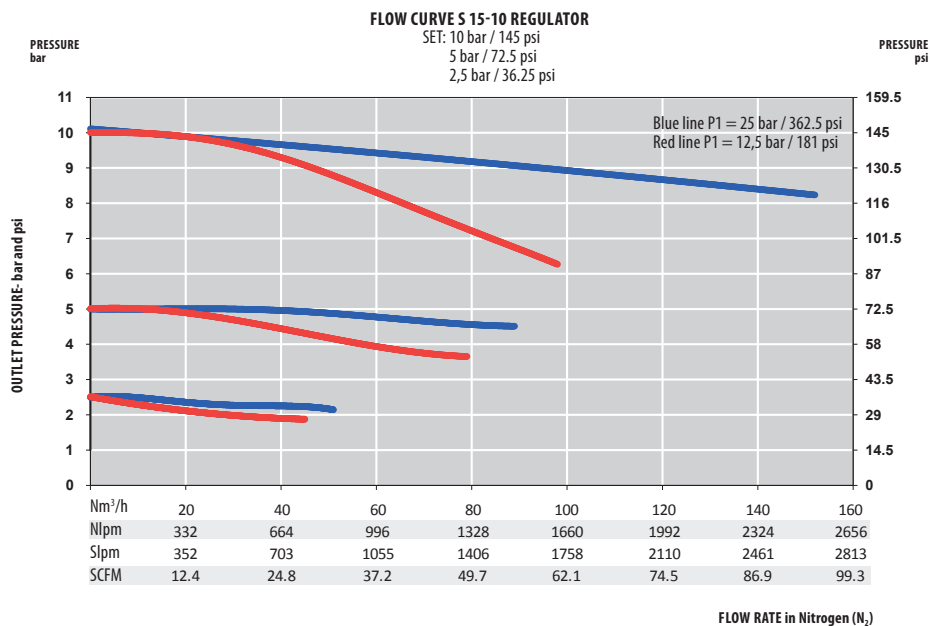
- Made up with a Series S 15 type regulator and a VLM 200 valve.
- Best-in-class pressure stability with Balanced-Valve Technology: the effect of inlet pressure fluctuations on outlet pressure are minimized. BV-technology enables the delivery of a very stable outlet pressure and flow even with high flow 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 | | |

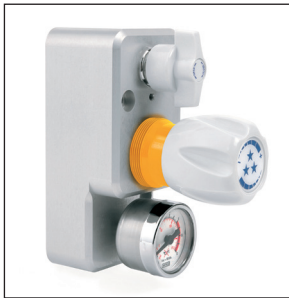
*Inlet Down - outlet Top

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



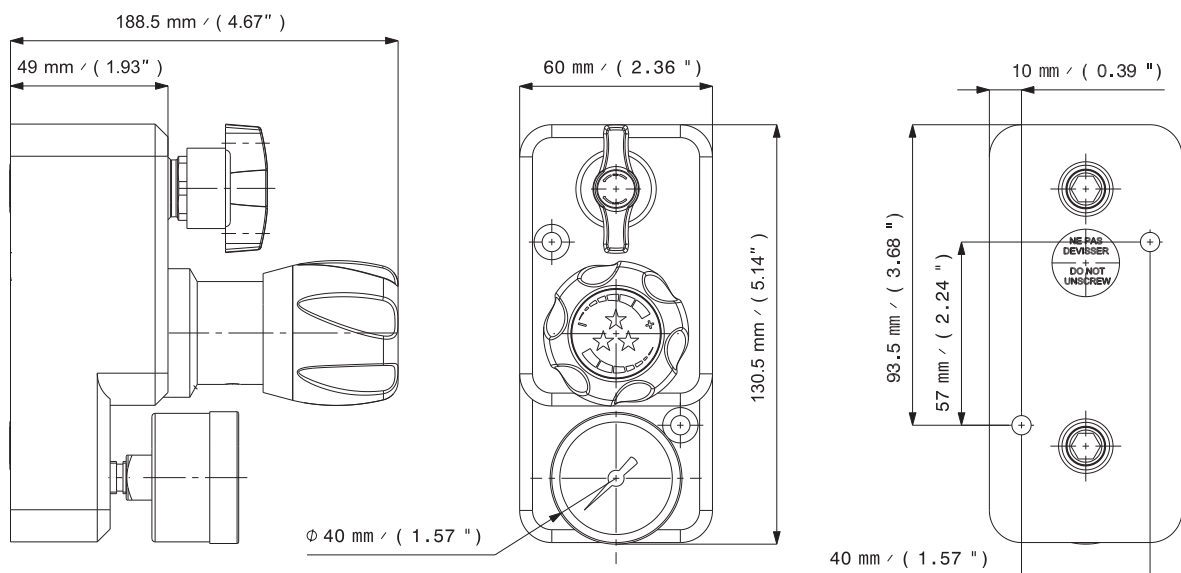
Acetylene version

APPLICATIONS

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

KEY FEATURES

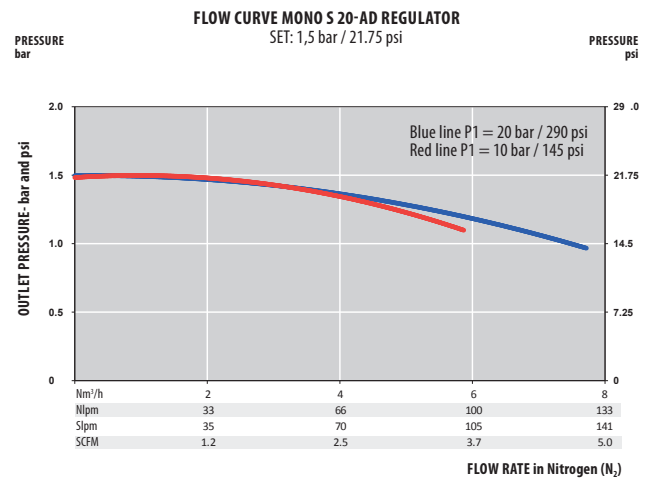
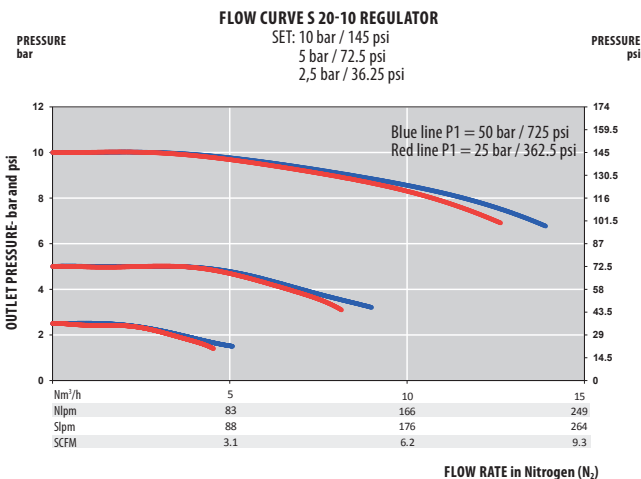
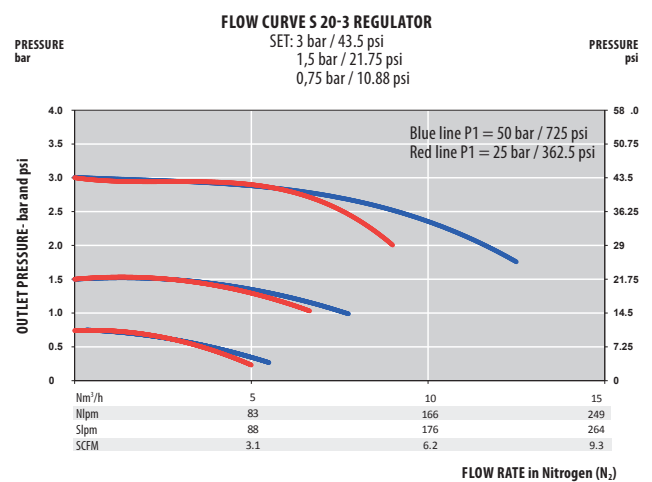
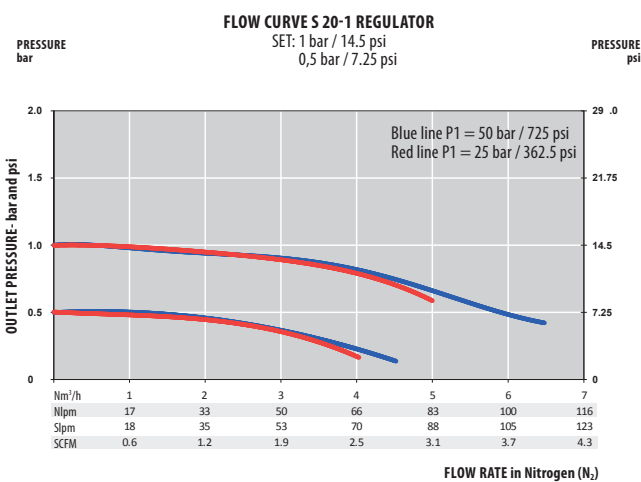
- Made up with a Series S 20 type regulator and a VM 20 valve.
- Compact outline dimensions and ergonomic design make this point of use suitable for laboratory furniture.
- Acetylene version also available.
- For use with acetylene, this product must imperatively be installed with a flash back arrestor 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 |
| | | 10 bar / 145 psi | 10 | | FPM |
| | | Acetylene version / 1,5 bar (21.75 psi) | AD | | reverse gauge (180°)* |

*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

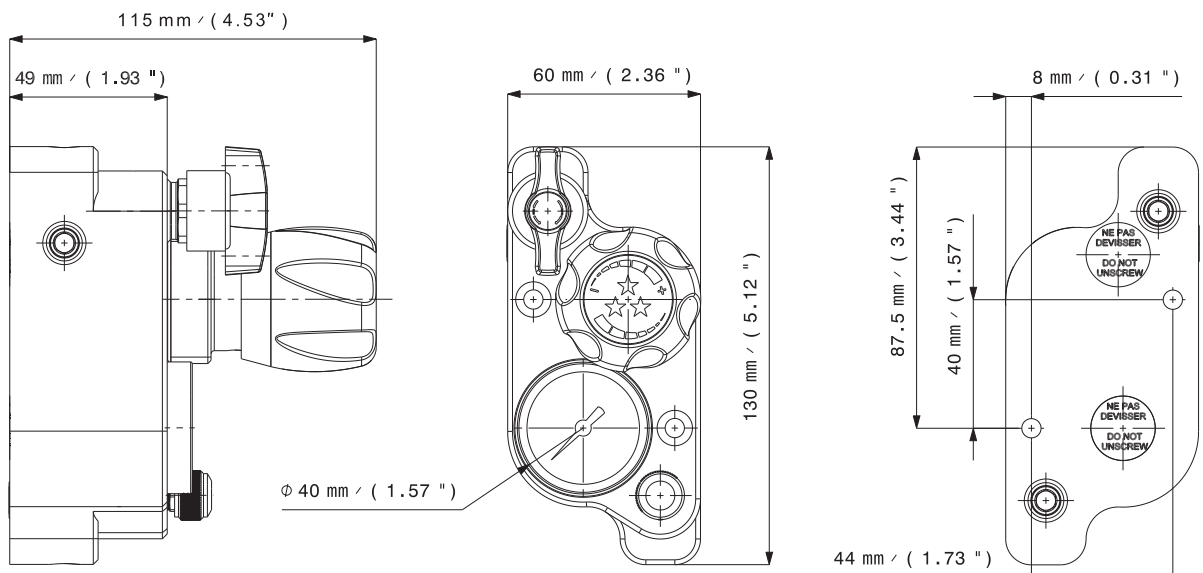
- Made up with a Series S 20 type regulator, a VM 20 valve and a RDL 10 regulation needle valve.
- Compact outline dimensions and ergonomic design make this point of use suitable for laboratory furniture.
- Vertical or horizontal orientation.
- Acetylene version available.
- For use with acetylene, this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



Horizontal version



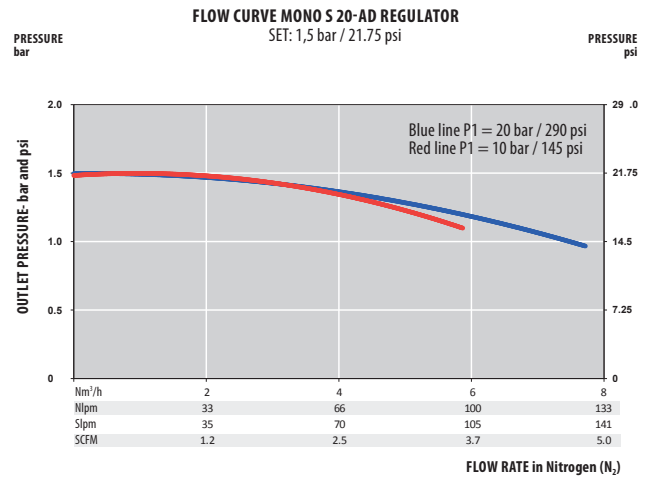
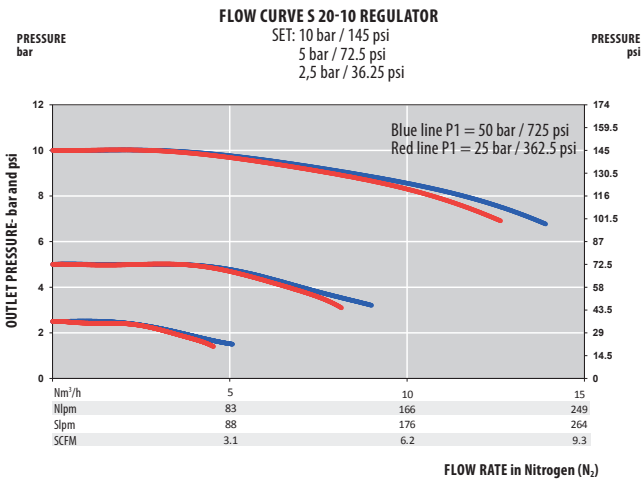
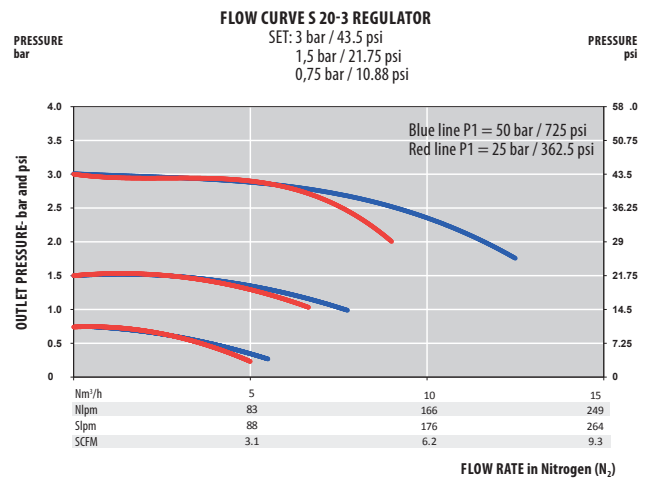
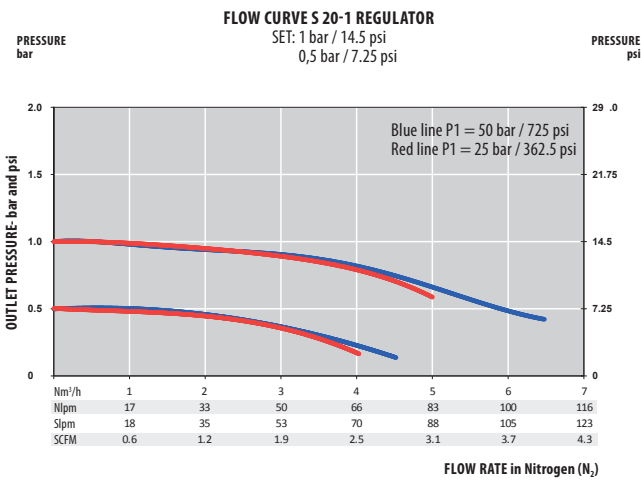
Vertical version



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

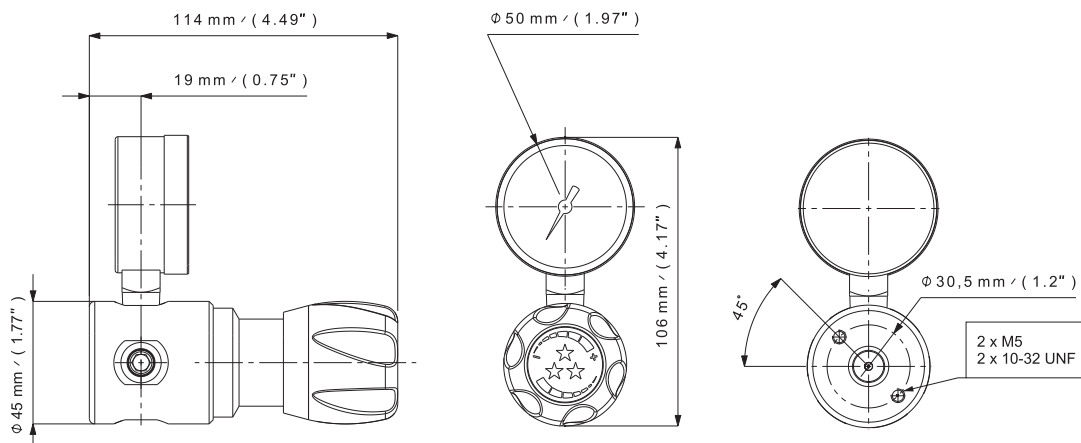
Special requirements on request

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

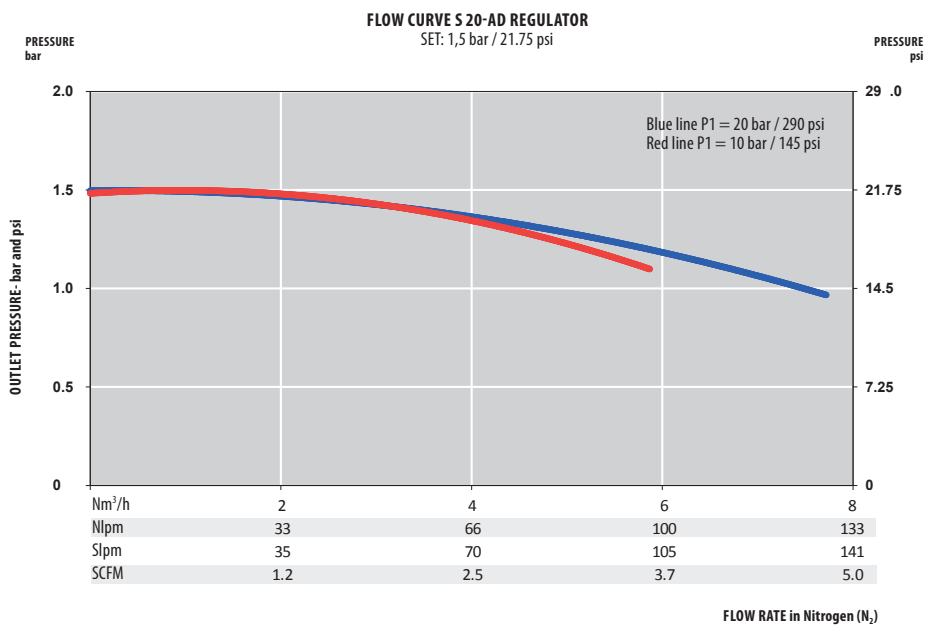
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- With its compact design, the rear threads and its fixing ring (option) it can be used for wall or panel mounting.
- Multiple mounting positions possible due to multiple inlet ports.
- For use with acetylene: 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 | | | G 3/8 - G 3/8 | | Without | 0 | Standard Configuration | A | Without Fixing Ring | FR0 |
| | | | | 1/4 NPT - 1/4 NPT | | 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

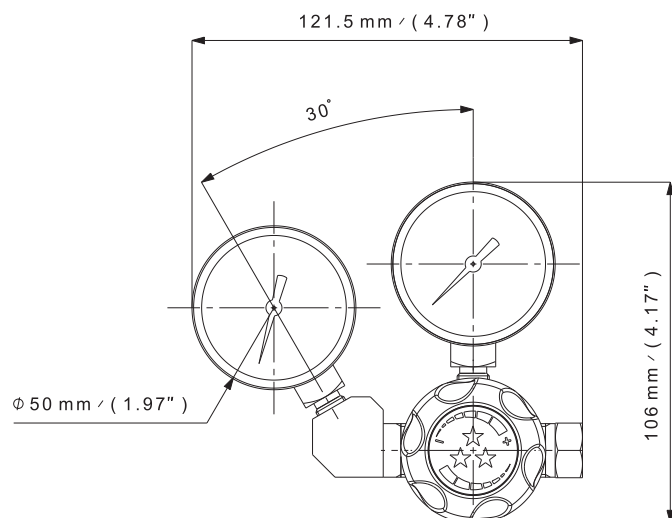
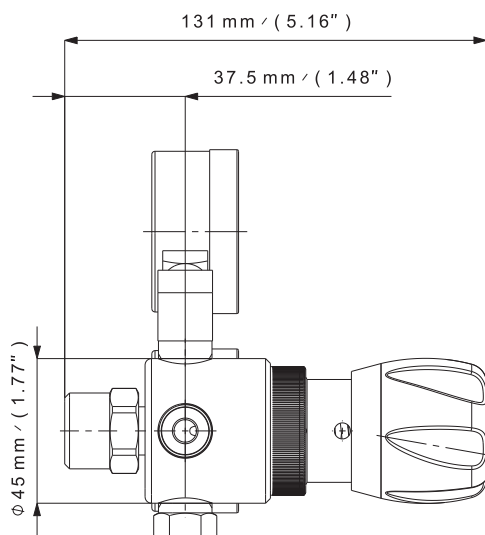
- Used as a cylinder regulator for acetylene applications such as atomic absorption analyzers.

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.



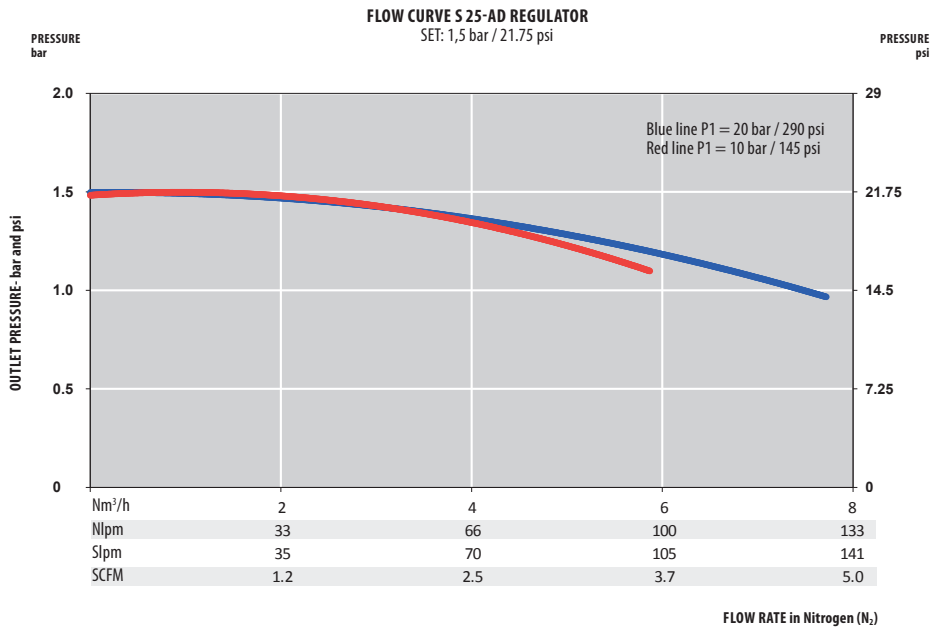
Right view



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)

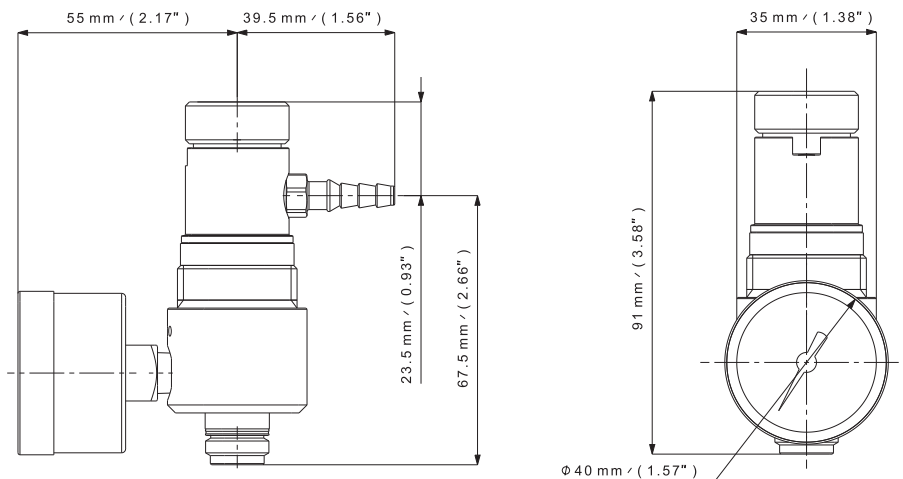
Special requirements on request

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 (½ 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 | 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 | NPT ½ - Female | N1 | 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

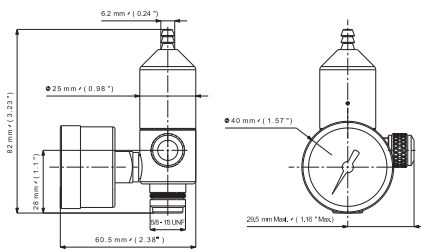
- This piston regulator has 1 inlet/1 outlet.
- Exist as single (S 70) or dual stage (D 70 special version).
- Compact, light weight design, ideal for portability.
- Hand tightened assembly to cylinder is excellent for field applications.
- Actuation with control knob or push button.
- Please indicate,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



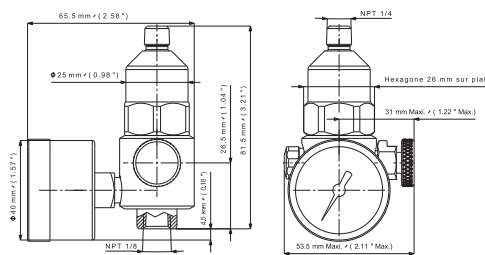
S70 single stage

D70 dual stage

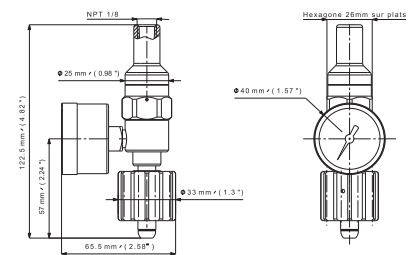
CK - CONTROL KNOB



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 |

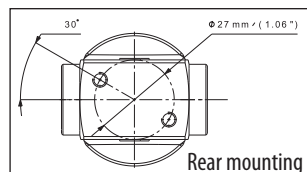
SERIES VP 300 | LINE VALVE

- 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

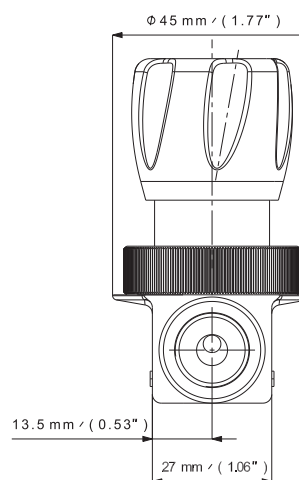
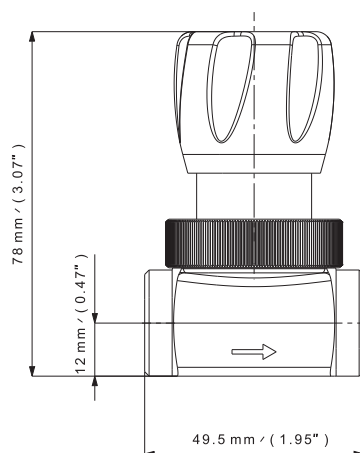


KEY FEATURES

- 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 VM 200 | LINE VALVE

- High-pressure line valve for various pure gases.
- High leak tightness through diaphragm sealing.

SHUT-OFF VALVE

- ★ High-pressure
- ★ Diaphragm seal
- ★ Multi-turn or ¼ turn
- ★ Special O₂ version

Special requirements on request

KEY FEATURES

- Purity up to 6.0
- Multi-turn version or ¼ turn version
- 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

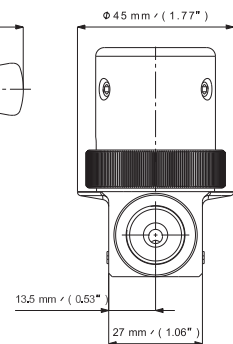
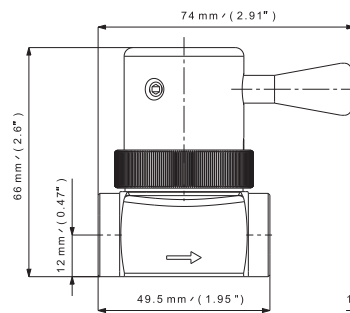
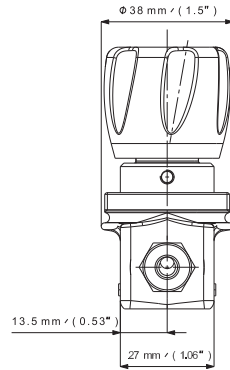
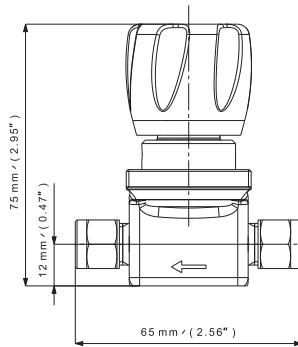
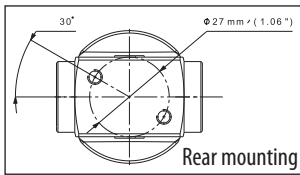
- Many inlet/outlet fittings available
- Special stainless steel, oxygen version



Multi-turn version



¼ turn version



SPECIFICATIONS

| | | | | | |
|-----------------------|-----------------------------|--------------------------|----------------------------------|------------------------------|--|
| Female ports | G ¾ or ¼ NPT (inlet/outlet) | Weight | ± 0,5 kg ± 1.10 lbs | Inlet pressure | 200 bar 2900 psi |
| Seat seal | PCTFE | Leak rate | 10 ⁻⁸ mbar.l/s He | Flow coefficient (Kv) | 0,04 (brass) 0,12 for ¼ turn (stainless steel) 0,21 for multi-turn (stainless steel) |
| Diaphragm | Hastelloy® | Temperature range | -20°C to +50°C -4°F to +122°F | Oxygen use | special part number for O ₂ application. |
| Bottom tapered | OK | Seat orifice size | Ø 4 mm | | |

PRODUCT CONFIGURATOR

| V | Body Material | | M | 200 | Version | | End Connections | | Hand wheel | | Oxygen version | |
|---|---------------------|---|---|-----|----------|---|--------------------|------|------------|-----|----------------|----------------|
| | L | L | | | D | D | G | G | ¼ T | ¼ T | STD | STD |
| | Chrome plated brass | L | | | straight | D | G ¾ - Female | G | ¼ turn | ¼ T | standard | STD |
| | Stainless steel | I | | | | | ¼ NPT - Female | N | Multi-tum | MT | oxygen use | O ₂ |
| | | | | | | | 6 mm tube fitting | DB6 | | | | |
| | | | | | | | 10 mm tube fitting | DB10 | | | | |

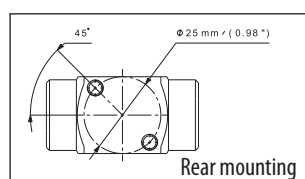
SERIES VM 50 | LINE VALVE

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

SHUT-OFF VALVE

- ★ Low-pressure
- ★ Diaphragm seal
- ★ Multi-turn or ¼ turn
- ★ O₂ application compatible (see technical data)

Special requirements on request



KEY FEATURES

- Purity up to 6.0
- Multi-turn version or ¼ turn version
- Nickel plated brass or stainless steel
- Rear thread for panel mounting

OPTIONS

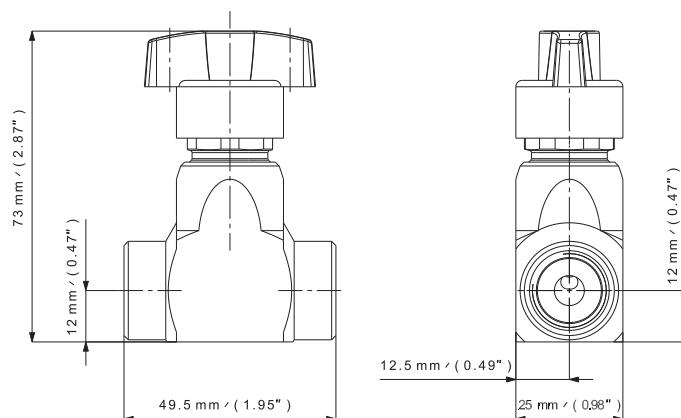
- Various inlet/outlet connections
- Many inlet/outlet fittings available



¼ turn version



Multi-turn version



SPECIFICATIONS

| | | | | | |
|-----------------------|---------------------------------|--------------------------|----------------------------------|------------------------------|--|
| Female ports | G 3/8 or 1/4 NPT (inlet/outlet) | Leak rate | 10 ⁻⁸ mbar ℓ/s He | Inlet pressure | 50 bar 725 psi |
| Seat seal | PCTFE | Temperature range | -20°C to +50°C -4°F to +122°F | Flow coefficient (Kv) | 0,04 (brass) 0,12 for ¼ turn (stainless steel) 0,21 for multi-turn (stainless steel) |
| Diaphragm | Hastelloy® | Seat orifice size | Ø 4 mm | Oxygen use | Brass only, pressure ≤ 30 bar |
| Bottom tapered | OK | | | | |
| Weight | ± 0,3 kg ± 0.66 lbs | | | | |

PRODUCT CONFIGURATOR

| V | Body Material | | M | 50 | End Connections | | Hand wheel | |
|---|---------------------|---|---|----|-----------------|---|------------|-----|
| | L | I | | | G | N | ¼ T | ¼ T |
| | Nickel plated brass | L | | | G 3/8 - Female | G | ¼ Turn | ¼ T |
| | Stainless steel | I | | | ¼ NPT - Female | N | Multi-turn | MT |

SERIES VM 20 | 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

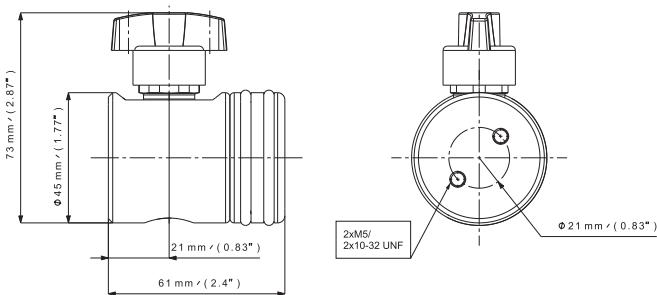
- ¼ turn version
- M: G 3/8" inlet (VLM 20 D / VIM 20 D)
- Panel mounting board
- Point of use regulator
- Many inlet / outlet fittings available



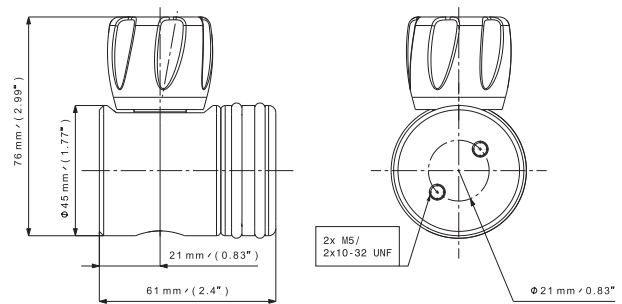
VLM 20 E ¼ turn



VLM 20 E Multi-turn



VLM 20 E ¼ turn



VLM 20 E Multi-turn

SPECIFICATIONS

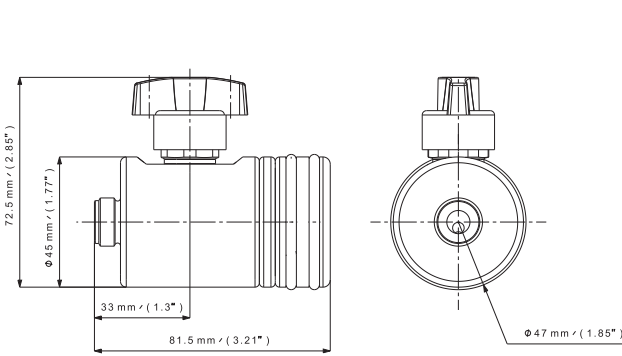
| | | | | | |
|-----------------------|-------------------------------|--------------------------|------------------------------------|-------------------------|--|
| Seat seal | PCTFE / EPDM | Weight | ± 0,95 kg ± 2.10 lbs | Flow coefficient | Cv 0.14 Kv 0,12 |
| O-ring | EPDM - Standard NBR FPM | Leak 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 3/8 (inlet/outlet) |
| Diaphragm | Hastelloy® | Seat orifice size | Ø 4 mm | Oxygen use | Brass: OK Stainless steel: only E / M versions with side inlet |



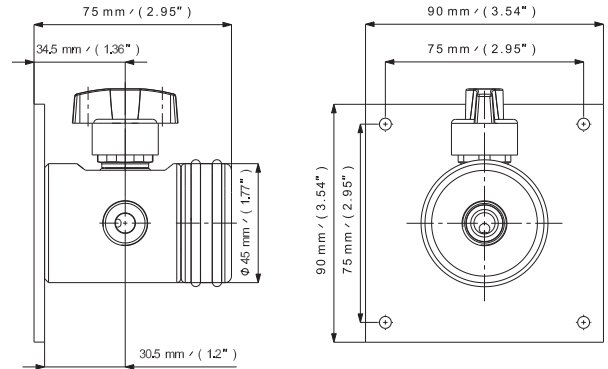
VLM 20 D 1/4 turn



VLM 20 M 1/4 turn



VLM 20 D 1/4 turn



VLM 20 M 1/4 turn

PRODUCT CONFIGURATOR

| | Body Material | Version | End Connections | O-ring Material | Hand wheel |
|----------|---------------------|------------------|---------------------|-------------------|--------------|
| V | LM20 | M | G | EPDM | 1/4 T |
| | Chrome plated brass | LM20 straight | D G 3/8 | G EPDM - standard | 1/4 turn |
| | Stainless steel | IM20 right angle | E 1/4 NPT on demand | N NBR | Multi turn |
| | | with plate | M | FPM | 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

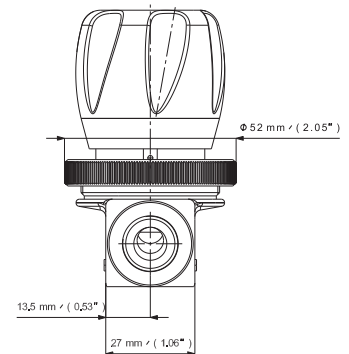
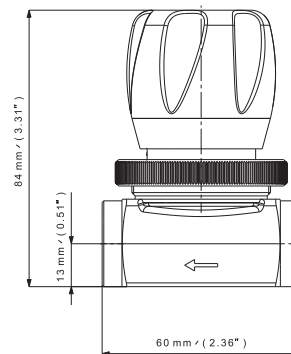
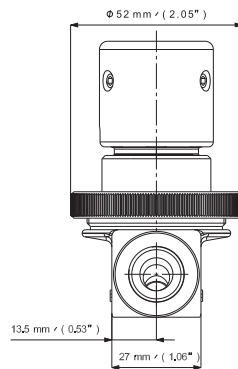
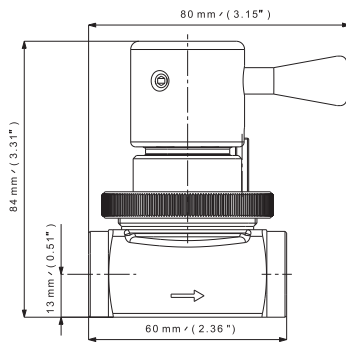
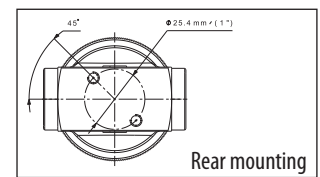
- Choice of two inlet/outlet connections available (see configurator)



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

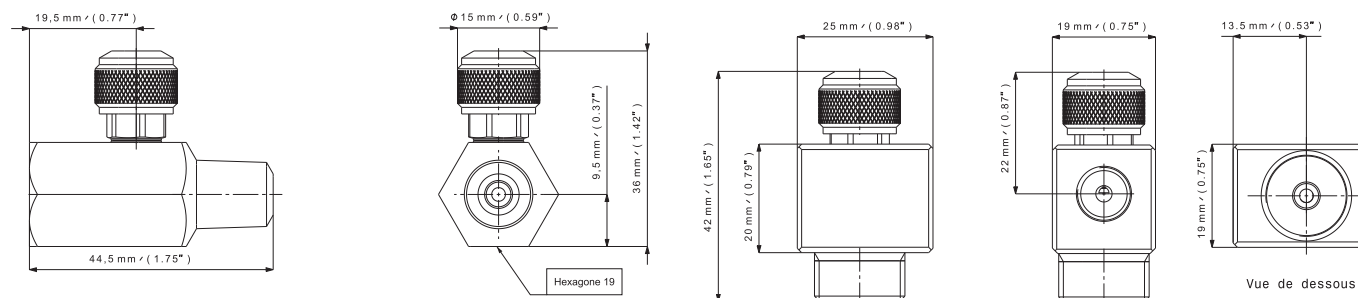
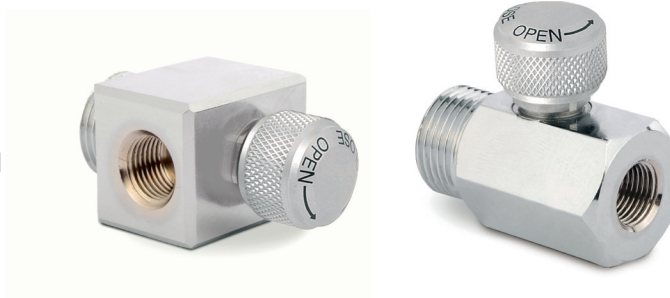
Special requirements on request

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 | D | 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

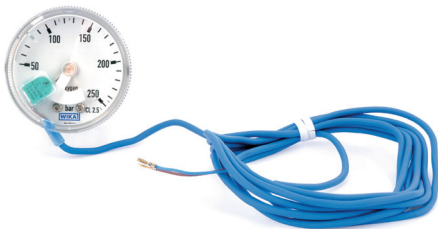
OPTIONS

- 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 10 RELIEF VALVE

- Equipped with a valve opening at the set up value to evacuate the over pressure build in the process

RELIEF VALVE

- ★ Connectable to purging line
- ★ CE marked (97/23/CE)
- ★ AISI 303 or AISI 316L

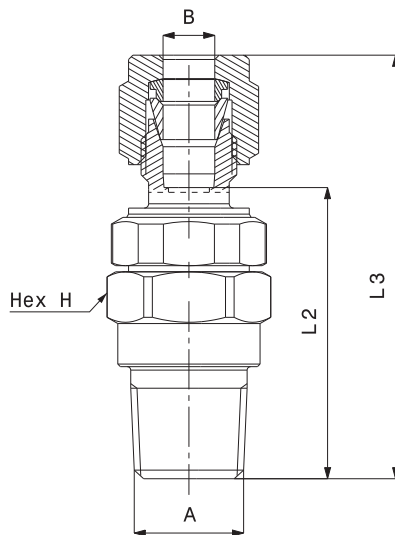
Special requirements on request

KEY FEATURES

- CE marked according to the European Directive 97/23/CE.
- Compatible with all Rotarex regulators, supply boards and switch over boards.
- Setup value defined.
- Small dimensions.
- Compatible with many gases (see table).
- Delivered with a P.A flat seal for the chrome-plated brass version and a PCTFE flat seal for the AISI 316L version.
- Delivered with the user manual.

OPTIONS

- 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** : M: G 3/8, M: 1/4 NPT
- B** : Ø 6 mm or Ø 1/4"
- H** : hexagon of 17 mm on flats
- L1** : 27 mm
- L2** : approx. 37 mm
- L3** : approx. 51 mm



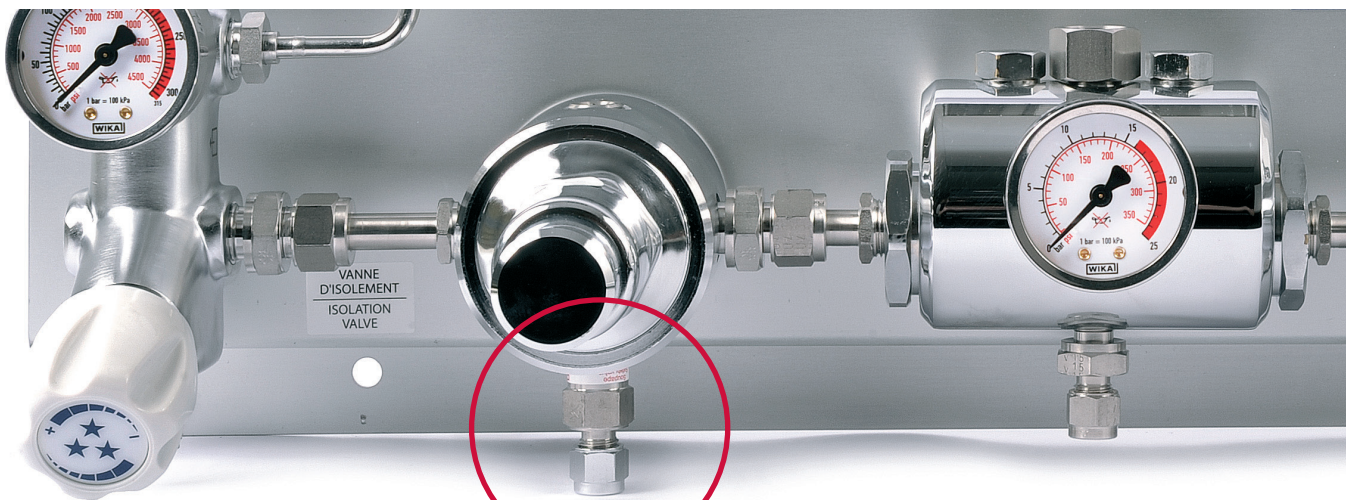
A FEW FLOW VALUES OF THE SV 10 AT A PRESSURE 1,25 TIMES THE TIGHTNESS PRESSURE

| 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 | * | 7.6 | 9.8 | 17 | 21.4 | 23 | 30.2 | 38.1 | 43.4 | 57.5 | 77.4 | 107.1 |

*Minimum flow Q = 5,2 m³/h - N₂ with 3 bar inlet pressure

SPECIFICATIONS

| | | | | | |
|---|---|--|--|--------------------------|---|
| Gasket | PA 6.6 (brass/AISI 303 version) PCTFE (AISI 316L version) | Gas with EPDM and stainless steel | CO ₂ , CO, He, N ₂ , Air, Ne, Kr, Xe, C ₂ H ₂ , NH ₃ , H ₂ | Ports (inlet) | G 3/8- Male or 1/4 NPT - Male |
| O-ring | EPDM FPM NBR | 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) | DR 6 mm or 1/4" |
| Gas with NBR and brass | Ar, CO, He, N ₂ , H ₂ , Air, Ne, Kr, Xe, C ₄ H ₁₀ , CH ₄ | Oxygen use | OK | Body | Chrome-plated brass/AISI 303 or 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 brass | Ar, CO ₂ , CO, He, N ₂ , H ₂ , Air, Ne, Kr, Xe, C ₂ H ₂ | Seat orifice size | Hexagonal Ø 2 mm | Temperature range | -20°C to +65°C -4°F to +149°F |



SV10 (cont'd)

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

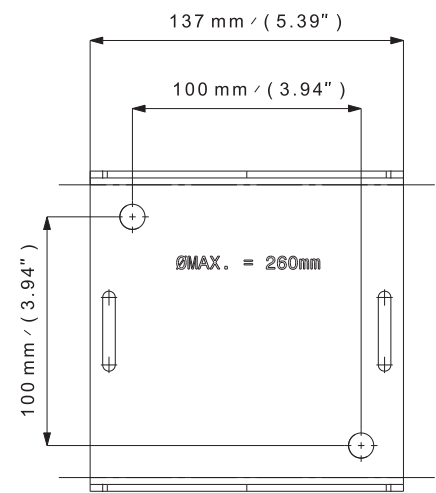
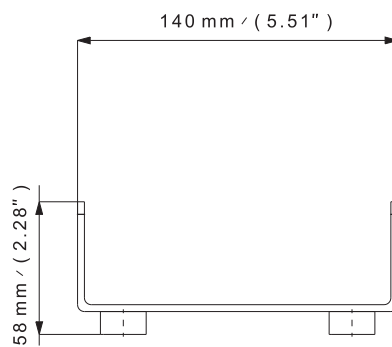
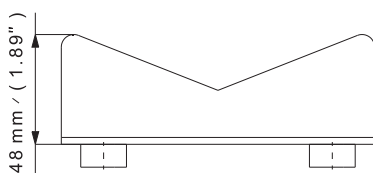
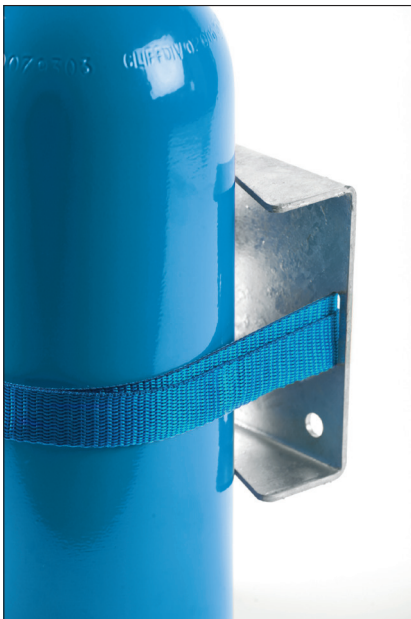
| Tightness pressure | Material | Inlet connection | Outlet connection (tube fitting) | O-Ring | Rotarex designation | Kit part number |
|--------------------|----------------------|--|----------------------------------|---|---|---|
| 2 bar | Brass + SS 303 | M: G 3/8 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 2 bar \ G 3/8 \ LT \ EPDM \ DB6 | 380001990001 |
| | Stainless steel 316L | | | | KIT \ SOUP \ SV10 \ 2 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990301 |
| 4 bar | Brass + SS 303 | M: G 3/8 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 4 bar \ G 3/8 \ LT \ EPDM \ DB6 | 380001990003 |
| | Stainless steel 316L | | | | KIT \ SOUP \ SV10 \ 4 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990302 |
| 5 bar | Brass + SS 303 | M: G 3/8 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 5 bar \ G 3/8 \ LT \ EPDM \ DB6 | 380001990004 |
| | | | | | KIT \ SOUP \ SV10 \ 5 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990303 |
| | Stainless steel 316L | | | FPM | KIT \ SOUP \ SV10 \ 5 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990304 |
| 9 bar | Brass + SS 303 | M: G 3/8 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 9 bar \ G 3/8 \ LT \ EPDM \ DB6 | 380001990005 |
| | | | | | KIT \ SOUP \ SV10 \ 9 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990305 |
| | Stainless steel 316L | | | FPM | KIT \ SOUP \ SV10 \ 9 bar \ G 3/8 \ 316L \ FPM \ DB6 | 380001990306 |
| 11 bar | Brass + SS 303 | M: G 3/8 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 11 bar \ G 3/8 \ LT \ EPDM \ DB6 | 380001990059 |
| 12 bar | Stainless steel 316L | M: G 3/8 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 12 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990307 |
| 16 bar | Brass + SS 303 | M: G 3/8 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 16 bar \ G 3/8 \ LT \ EPDM \ DB6 | 380001990006 |
| | | | DB 1/4" | | KIT \ SOUP \ SV10 \ 16 bar \ G 3/8 \ LT \ EPDM \ DB1/4 | 380001990007 |
| | | | DB 6mm | NBR | KIT \ SOUP \ SV10 \ 16 bar \ G 3/8 \ LT \ NBR \ DB6 | 380001990014 |
| | Stainless steel 316L | | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 16 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990308 |
| | | | DB 1/4" | | KIT \ SOUP \ SV10 \ 16 bar \ G 3/8 \ 316L \ EPDM \ DB1/4 | 380001990358 |
| | | | DB 6mm | FPM | KIT \ SOUP \ SV10 \ 16 bar \ G 3/8 \ 316L \ FPM \ DB6 | 380001990309 |
| | | | DB 1/4" | | KIT \ SOUP \ SV10 \ 16 bar \ G 3/8 \ 316L \ FPM \ DB1/4 | 380001990310 |
| 22 bar | Brass + SS 303 | M: G 3/8 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 22 bar \ G 3/8 \ LT \ EPDM \ DB6 | 380001990058 |
| | | | | | KIT \ SOUP \ SV10 \ 22 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990311 |
| | Stainless steel 316L | | | FPM | KIT \ SOUP \ SV10 \ 22 bar \ G 3/8 \ 316L \ FPM \ DB6 | 380001990313 |
| 24 bar | Brass + SS 303 | M: G 3/8 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 24 bar \ G 3/8 \ LT \ EPDM \ DB6 | 380001990008 |
| | | M: 1/4 NPT | | | KIT \ SOUP \ SV10 \ 24 bar \ 1/4 NPT \ LT \ EPDM \ DB6 | 380001990013 |
| | | M: G 3/8 | | | KIT \ SOUP \ SV10 \ 24 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990320 |
| | M: 1/4 NPT | KIT \ SOUP \ SV10 \ 24 bar \ 1/4 NPT \ 316L \ EPDM \ DB6 | | | 380001990319 | |
| | Stainless steel 316L | M: G 3/8 | | FPM | KIT \ SOUP \ SV10 \ 24 bar \ G 3/8 \ 316L \ FPM \ DB6 | 380001990356 |
| 35 bar | | Brass + SS 303 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 35 bar \ G 3/8 \ LT \ EPDM \ DB6 | 380001990009 |
| | M: 1/4 NPT | | | | KIT \ SOUP \ SV10 \ 35 bar \ 1/4 NPT \ LT \ EPDM \ DB6 | 380001990011 |
| | Stainless steel 316L | M: G 3/8 | | | KIT \ SOUP \ SV10 \ 35 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990314 |
| | | M: 1/4 NPT | | | KIT \ SOUP \ SV10 \ 35 bar \ 1/4 NPT \ 316L \ EPDM \ DB6 | 380001990317 |
| | M: G 3/8 | FPM | | KIT \ SOUP \ SV10 \ 35 bar \ G 3/8 \ 316L \ FPM \ DB6 | 380001990315 | |
| 50 bar | Brass + SS 303 | M: G 3/8 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 50 bar \ G 3/8 \ LT \ EPDM \ DB6 | 380001990060 |
| | Stainless steel 316L | | | | KIT \ SOUP \ SV10 \ 50 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990369 |
| 62 bar | Brass + SS 303 | M: G 3/8 | DB 6mm | EPDM | KIT \ SOUP \ SV10 \ 62 bar \ G 3/8 \ LT \ EPDM \ DB6 | 380001990010 |
| | | M: 1/4 NPT | | | KIT \ SOUP \ SV10 \ 62 bar \ 1/4 NPT \ LT \ EPDM \ DB6 | 380001990012 |
| | | Stainless steel 316L | | M: 1/4 NPT | FPM | KIT \ SOUP \ SV10 \ 62 bar \ 1/4 NPT \ 316L \ FPM \ DB6 |
| | M: G 3/8 | | | EPDM | KIT \ SOUP \ SV10 \ 62 bar \ G 3/8 \ 316L \ EPDM \ DB6 | 380001990357 |
| | | | | FPM | KIT \ SOUP \ SV10 \ 62 bar \ G 3/8 \ 316L \ FPM \ DB6 | 380001990316 |
| 320 psi | Stainless steel 316L | M: G 3/8 | DB 1/4" | FPM | KIT \ SOUP \ SV10 \ 320 psi \ G 3/8 \ 316L \ FPM \ DB1/4 | 380001990365 |
| | | M: 1/4 NPT | | | KIT \ SOUP \ SV10 \ 320 psi \ 1/4 NPT \ 316 \ FPM \ DB1/4 | 380001990370 |
| 507 psi | Stainless steel 316L | M: G 3/8 | DB 1/4" | FPM | KIT \ SOUP \ SV10 \ 507 psi \ G 3/8 \ 316L \ FPM \ DB1/4 | 380001990366 |
| | | M: 1/4 NPT | | | KIT \ SOUP \ SV10 \ 507 psi \ 1/4 NPT \ 316 \ FPM \ DB1/4 | 380001990371 |
| 725 psi | Stainless steel 316L | M: G 3/8 | DB 1/4" | FPM | KIT \ SOUP \ SV10 \ 725 psi \ G 3/8 \ 316L \ FPM \ DB1/4 | 380001990367 |
| | | M: 1/4 NPT | | | KIT \ SOUP \ SV10 \ 725 psi \ 1/4 NPT \ 316 \ FPM \ DB1/4 | 380001990372 |
| 900 psi | Stainless steel 316L | M: G 3/8 | DB 1/4" | FPM | KIT \ SOUP \ SV10 \ 900 psi \ G 3/8 \ 316L \ FPM \ DB1/4 | 380001990368 |
| | | M: 1/4 NPT | | | KIT \ SOUP \ SV10 \ 900 psi \ 1/4 NPT \ 316 \ FPM \ DB1/4 | 380001990373 |

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 | |
| Butane | C_4H_{10} | B | OK | OK | OK | OK | | |
| Carbon dioxide | CO_2 | B | OK | OK | OK | | OK | |
| Carbon monoxide | CO | B | OK | OK | OK | | OK | |
| Ethane | C_2H_6 | B | OK | OK | OK | OK | | |
| Helium | He | B | OK | | OK | OK | OK | |
| Hydrogen | H_2 | B | OK | | OK | OK | OK | |
| Krypton | Kr | B | OK | OK | OK | OK | | |
| Methane | CH_4 | B | 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 | |
| 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 | |

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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 WORLD 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





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**UHP
CYLINDER VALVES**



**MEDICAL VALVES
& REGULATORS**



**SPECIALTY GAS VALVES
REGULATORS & FITTINGS**



CRYOGENIC VALVES



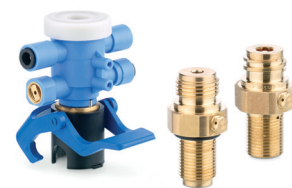
AUTOMOTIVE



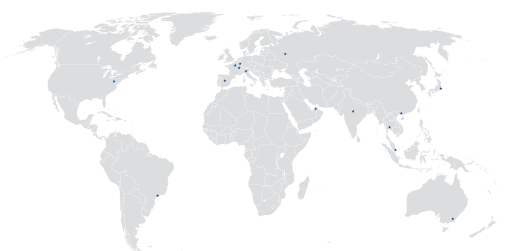
FIRE SUPPRESSION



**LPG VALVES
REGULATORS & GAUGES**

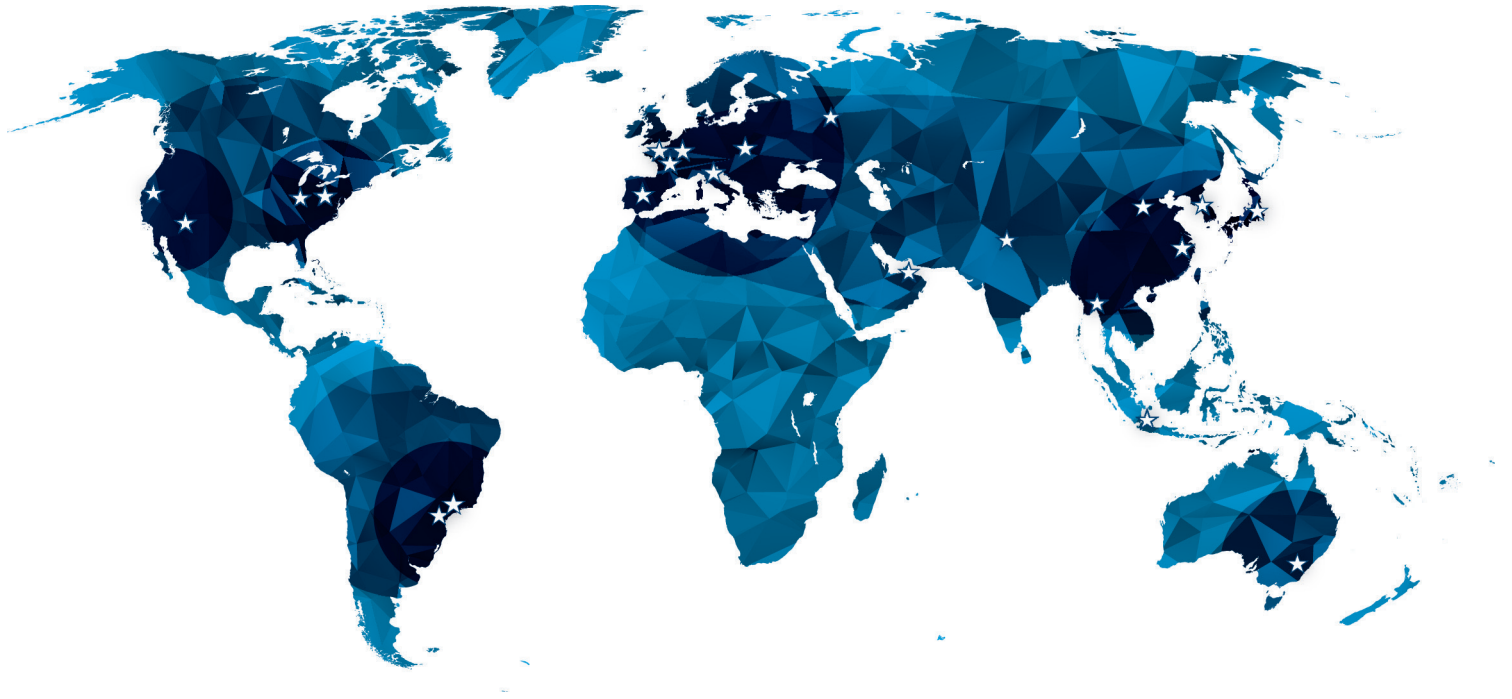


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