ROTAREX

VALVES - FITTINGS - REGULATORS

PRESSURE REGULATORS
EUROPE

TABLE OF CONTENTS

ISO 9001 QUALITY ASSURANCE

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.

SPECIALTY GASES

SINGLE STAGE HIGH PRESSURE REGULATORS

SERIES SC 280 - SC 380 P. 018

SERIES S 220 P. 020

SERIES S 400 P.022

SERIES S 800 P. 024

	SERIES SC 280 - SC 380	SERIES S 220	SERIES S 400	SERIES S 800
Technology	Diaphragm + cartridge	Diaphragm	Piston	Diaphragm + Balanced-Valve
Inlet Pressure	200/300 bar 2900/4350 psi	200 bar 2900 psi	300 bar 4350 psi	300 bar 4350 psi
Outlet Pressure	1,5/4/10/16/35/50 bar 21.75/58/150/250/508/725 psi	3/15/25/50 bar 44/218/360/725 psi	60/200 bar 870/2900 psi	10/16/25/50 bar 145/232/363/725 psi
Flow Rate Nm^3/h (N_2)	1/2/10/20/30	5/25/50/50	10/30	50/50/50/100
Material	Chrome-plated brass Stainless steel	Stainless steel	Chrome plated brass Stainless steel	Raw brass Chrome plated brass Stainless steel

DUAL STAGE HIGH PRESSURE REGULATORS

SERIES DC 280 - DC 380 P. 26

SERIES D 230 P. 028

SERIES D 230-0.1 P. 030

	SERIES DC 280 - DC 380	SERIES D 230	SERIES D 230-0.1
Technology	Diaphragm + cartridge	Piston/Bellow	Piston/Diaphragm
Inlet Pressure	200/300 bar 2900/4350 psi	200 bar 2900 psi	200 bar 2900 psi
Outlet Pressure	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi	1/3/10 bar 14.5/44/145 psi	0,01-0,1 bar 0.14-1.4 psi
Flow Rate Nm^3/h (N_2)	1/2/10/20/30	2/2,5/3,5	0,5
Material	Chrome-plated brass Stainless steel	Chrome plated brass Stainless steel	Chrome plated brass Stainless steel

SPECIALTY GASES

LOW PRESSURE REGULATORS

	SERIES S 10 P. 032
Technology	Diaphragm + Balanced-Valve
Inlet Pressure	25 bar 362.5 psi
Outlet Pressure	3/8 bar 44/116 psi
Flow Rate Nm³/h (N_2)	4,5/12
Material	Chrome plated brass Stainless steel

	SERIES S 15 P. 034
Technology	Diaphragm + Balanced-Valve
Inlet Pressure	25 bar 362.5 psi
Outlet Pressure	10 bar 145 psi
Flow Rate Nm³/h (N_2)	50
Material	Chrome plated brass Stainless steel

	SERIES S 20 P. 036
Technology	Bellow
Inlet Pressure	50 bar 725 psi
Outlet Pressure	1/3/10 bar 14.5/44/145 psi
Flow Rate Nm³/h (N_2)	2/2,5/3,5
Material	Chrome plated brass Stainless steel

	SERIES S 20-0.1 P. 038
Technology	Diaphragm
Inlet Pressure	50 bar 725 psi
Outlet Pressure	0,01-0,1 bar 0.14-1.4 psi
Flow Rate Nm³/h (N_2)	0,5
Material	Chrome plated brass Stainless steel

	SERIES S 55 P. 040
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 (N_2)	2,5/3/3,5/5,5/10
Material	Chrome plated brass Stainless steel

	SERIES DC 50 P. 042
Technology	Diaphragm + Balanced-Valve
Inlet Pressure	50 bar 725 psi
Outlet Pressure	8/15/40 bar 116/217/580 psi
Flow Rate Nm³/h (N_2)	150/300/300
Material	Raw brass Chrome plated brass

POINT OF USE REGULATOR | MOUNTED VERSION

	LINESTAR C 790 P. 044
Technology	Diaphragm
Inlet Pressure	50bar (725 psi) C_2H_2: 20 bar (290 psi)
Outlet Pressure	1,5 / 5,5 / 10 bar 21.75 / 79.75 /145 psi C_2H_2: 1,5 bar (21.75 psi)
Flow Rate Nm³/h (N_2)	1,2 / 2 / 9
Material	Body: brass Cover: resistant plastic

	SERIES S 21 P. 048
Technology	Bellow
Inlet Pressure	50 bar 725 psig
Outlet Pressure	1/3/10 bar 14.5/44/116 psig
Flow Rate Nm³/h (N_2)	2/2,5/3,5
Material	Chrome plated brass Stainless steel

	LABLINE 22 P. 050
Technology	Bellow
Inlet Pressure	50 bar 725 psi
Outlet Pressure	1/3/10 bar 14.5/44/116 psi
Flow Rate Nm³/h (N_2)	2/2,5/3,5
Material	Chrome plated brass Stainless steel

SPECIALTY GASES

POINT OF USE REGULATOR | INTEGRATED VERSIONS

	LINESTAR C795 P. 052	MONO SERIES S 15 P. 054	MONO SERIES S 20 P. 056
Technology	Diaphragm	Diaphragm + Balanced-Valve	Bellow
Inlet Pressure	50bar (725 psi) C_2H_2: 20 bar (290 psi)	25 bar 362.5 psi	50 bar 725 psi
Outlet Pressure	1,5 / 5,5 / 10 bar 21.75 / 79.75 /145 psi C_2H_2: 1,5 bar (21.75 psi)	10 bar 145 psi	1/3/10 bar 14.5/44/145 psi
Flow Rate Nm^3/h (N_2)	1,2 / 2 / 9	50	2/2,5/3,5
Material	Body: brass Cover: resistant plastic	Aluminum Stainless steel	Aluminum Stainless steel

ON DEMAND!

SPECIAL APPLICATION | CALIBRATION GAS REGULATORS

	SERIES S 75 P. 058	SERIES S 70 P. 060
Technology	Piston	Piston
Inlet Pressure	200 bar 2900 psi	200 bar 2900 psi
Outlet Pressure	3,5/6 bar 50/87 psi	4,13/2,06 bar 30/60 psi
Flow Rate Nm^3/h (N_2)	0,3-15 lpm	0,25-7 lpm
Material	Nickel plated brass Stainless steel	Nickel plated brass Stainless steel

TECHNICAL GASES

SINGLE STAGE HIGH PRESSURE REGULATORS

	SERIES S 800 P. 062	SERIES TGD 250 P. 064
Technology	Diaphragm + Balanced-Valve	Diaphragm
Inlet Pressure	300 bar 4350 psi	200 bar 2900 psi
Outlet Pressure	10/16/25/50 bar 145/232/363/725 psi	20 bar 290 psi
Flow Rate Nm³/h (N_2)	50/50/50/100	250
Material	Raw brass Chrome plated brass Stainless steel	Raw brass

ACETYLENE APPLICATION REGULATORS

	SERIES S 20 AD P. 058	SERIES S 25 AD P. 060	SERIES LABLINE 22 AD P. 062	MONO SERIES S 20 AD P. 064
Technology	Bellow	Bellow	Bellow	Bellow
Inlet Pressure	20 bar 290 psi	20 bar 290 psi	20 bar 290 psi	50 bar 725 psi
Outlet Pressure	1,5 bar 21.75 psi	1,5 bar 21.75 psi	1,5 bar 21.75 psi	1,5 bar 21.75 psi
Flow Rate Nm³/h (C_2H_2)	1	1	1	1
Material	Chrome plated brass	Chrome plated brass	Chrome plated brass	Aluminum

	SERIES DC 50 AD P. 074
Technology	Diaphragm + Balanced-Valve
Inlet Pressure	1,5 bar 21.75 psi
Outlet Pressure	0,8 bar 12 psi
Flow Rate Nm³/h (C_2H_2)	10
Material	Raw brass Chrome plated brass

LINE VALVES

	SERIES VD P. 076	SERIES VM 20 P. 077	SERIES VM 45 P. 078	SERIES RD 10 P. 079
Pressure	50/200/300 bar	50 bar	45 bar	60 bar
CV	0.12	0.14	0.58	0.116
Material	Chrome plated brass Stainless steel	Chrome plated brass Stainless steel	Chrome plated brass Stainless steel	Chrome plated brass Stainless steel
Type	Diaphragm	Diaphragm	Diaphragm	Needle valve
Handwheel	¼ turn	¼ turn/Multi-turn	¼ turn/Multi-turn	Multi-turn

ACCESSORIES

CYLINDER CONNECTORS P. 080

GAS CYLINDER HOLDER P. 082

NOTES

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

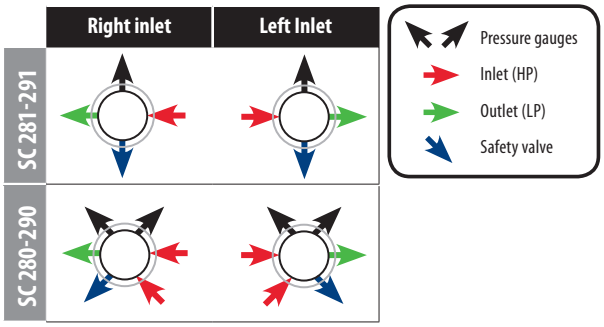
SINGLE STAGE REGULATOR

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.

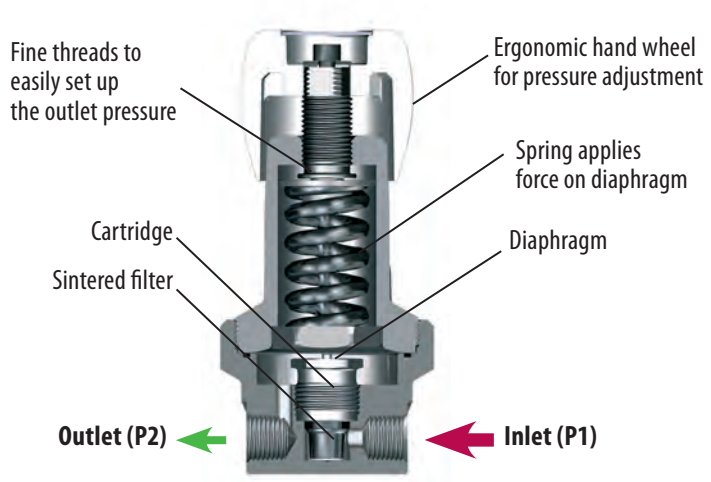
Because of this small pressure rise, single stage regulators are recommended for applications that do not require a constant outlet pressure.

Single stage regulators are also recommended for liquefied gas service such as CO_2, Propane, LPG, cryogenic gases and other gases that are liquid in the cylinder.

CARTRIDGE REGULATOR



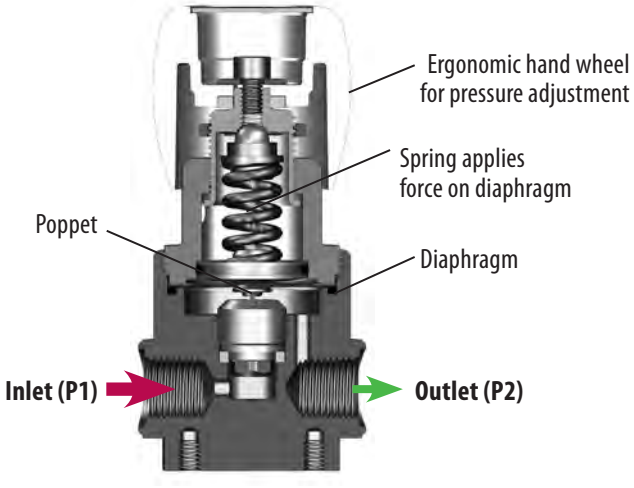
Superior technical performance with cartridge technology:
- Better outlet pressure stability due to the cartridge design. Outlet pressure remains stable despite any fluctuation of inlet pressure.
- Longer product life due to less impingement on the diaphragm.
- Compact design with reduction of dead volume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



PRODUCT FINDER
ROTAREX single stage regulators
Series SC 280/380 P. 018

TECHNOLOGY OVERVIEW (continued)

DIAPHRAGM REGULATOR

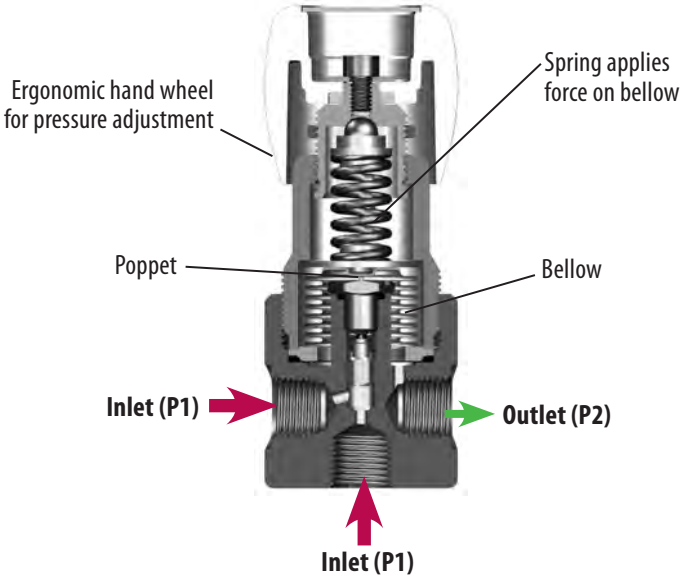


PRODUCT FINDER

ROTAREX diaphragm regulators

Series S 220	P. 020
Series TGD 250	P. 062
Series S 20-0.1	P. 038
Series S 55	P. 040

BELLOW REGULATOR

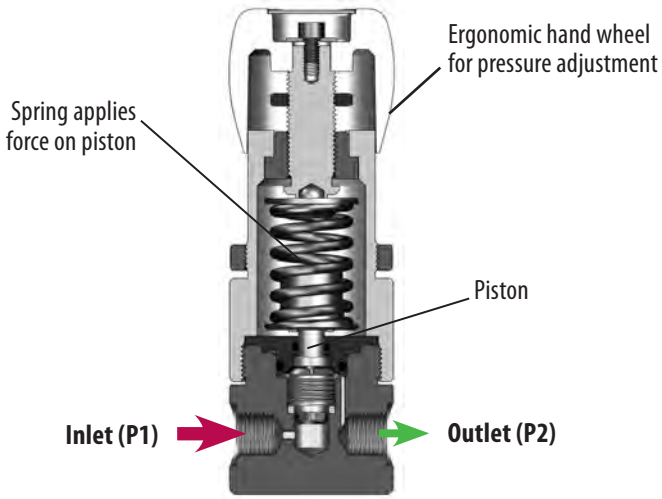


PRODUCT FINDER

ROTAREX bellow regulators

Series S 20	P. 036
Labline 22	P. 048
Mono Series S 20	P. 054
Series S 20 AD	P. 064
Series S 25 AD	P. 066
Labline 22 AD	P. 068

PISTON REGULATOR



PRODUCT FINDER

ROTAREX piston regulators

Series S 400	P. 022

TECHNOLOGY OVERVIEW (continued)

DUAL STAGE REGULATORS

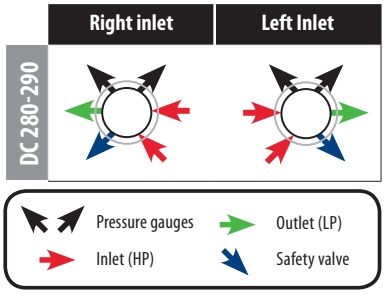
A **dual stage regulator** is basically two single stage regulators in a single body. This dual configuration provides superior pressure and flow stability vs. single stage regulators.

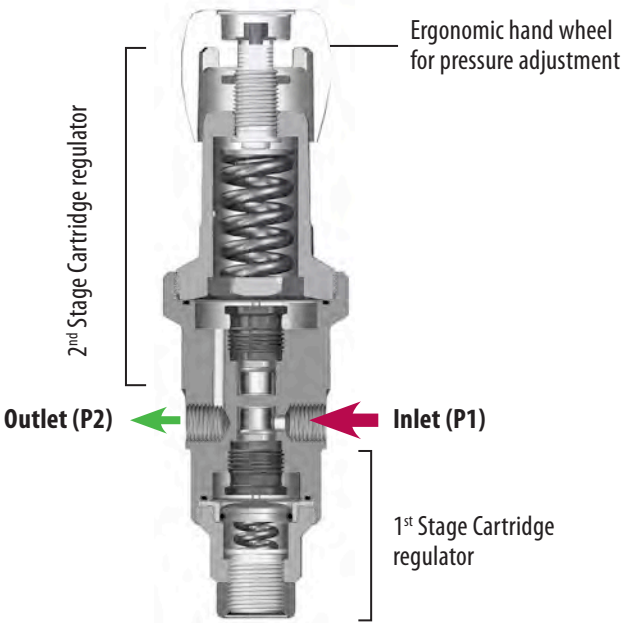
The first stage is preset to an intermediate pressure. This intermediate pressure acts as the inlet pressure to the second stage, which is adjustable.

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.

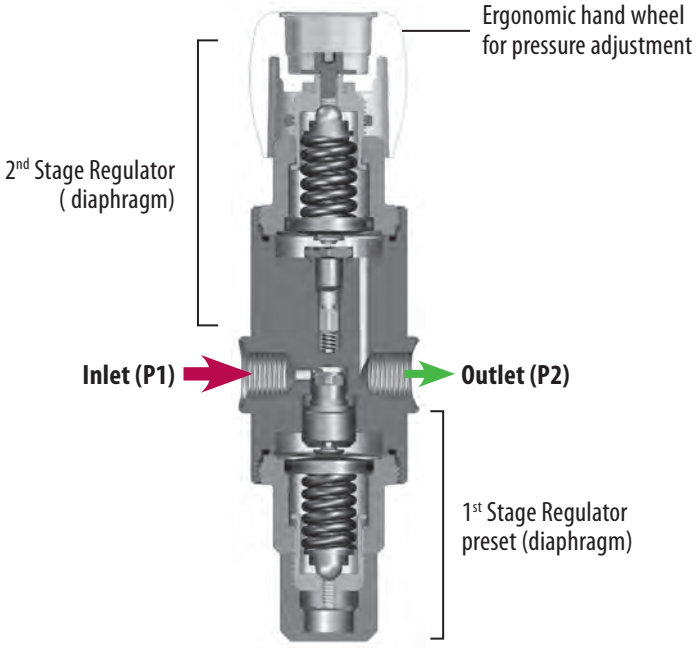
CARTRIDGE REGULATOR





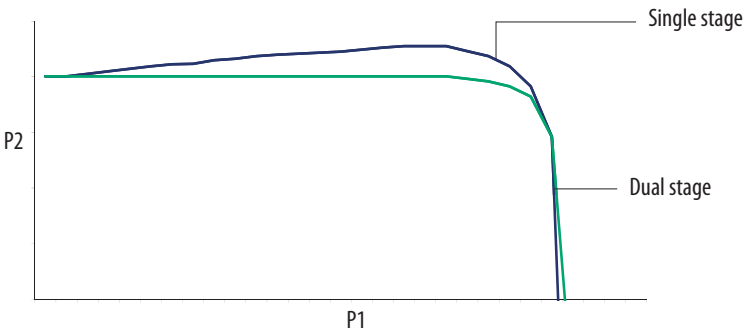
PRODUCT FINDER
ROTAREX dual stage regulators
Series DC 280/380 P. 026

DIAPHRAGM/DIAPHRAGM REGULATOR

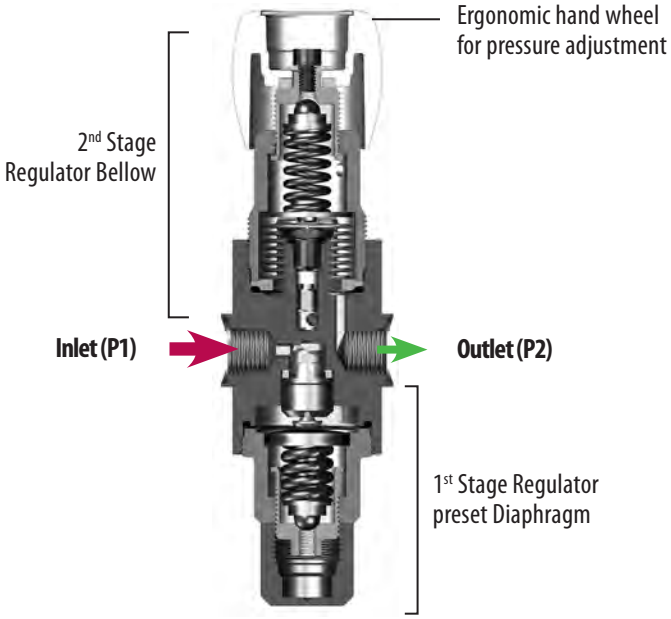


TECHNOLOGY OVERVIEW (continued)

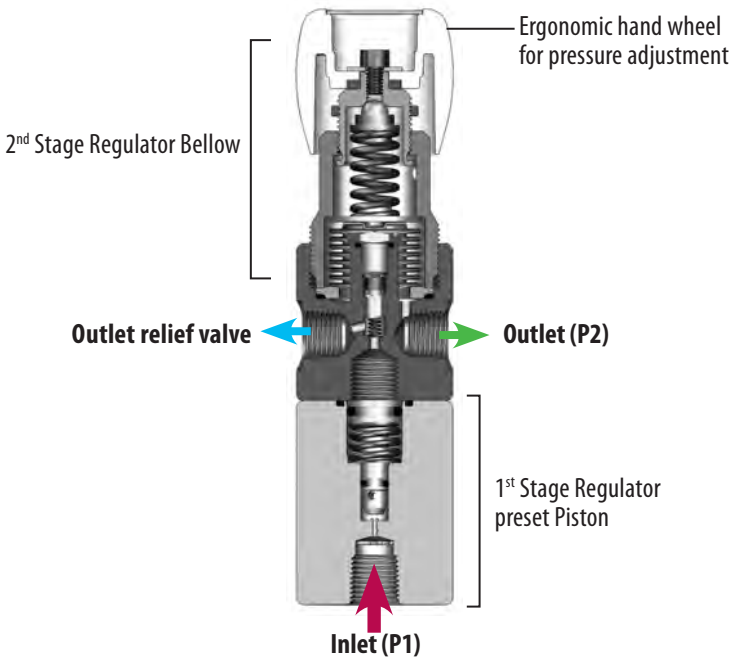
COMPARISON OF DUAL STAGE VS. SINGLE STAGE REGULATOR



DIAPHRAGM/BELLOW REGULATOR



PISTON/BELLOW REGULATOR



PRODUCT FINDER
ROTAREX
piston /bellow regulators
Series D 230 P. 028

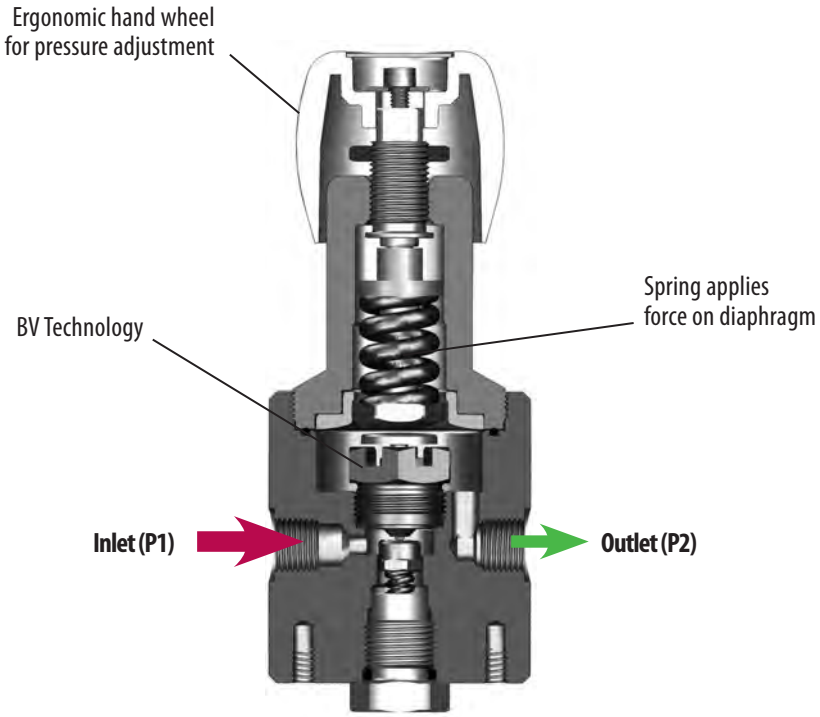
TECHNOLOGY OVERVIEW (continued)

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

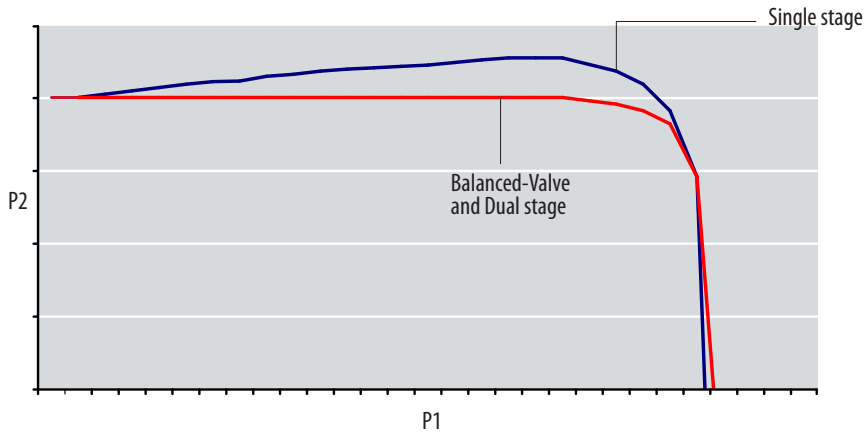


PRODUCT FINDER

ROTAREX
balanced-valve regulators

Series S 800	P. 024
Series S 10	P. 032
Series S 15	P. 034
Series DC 50	P. 042

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

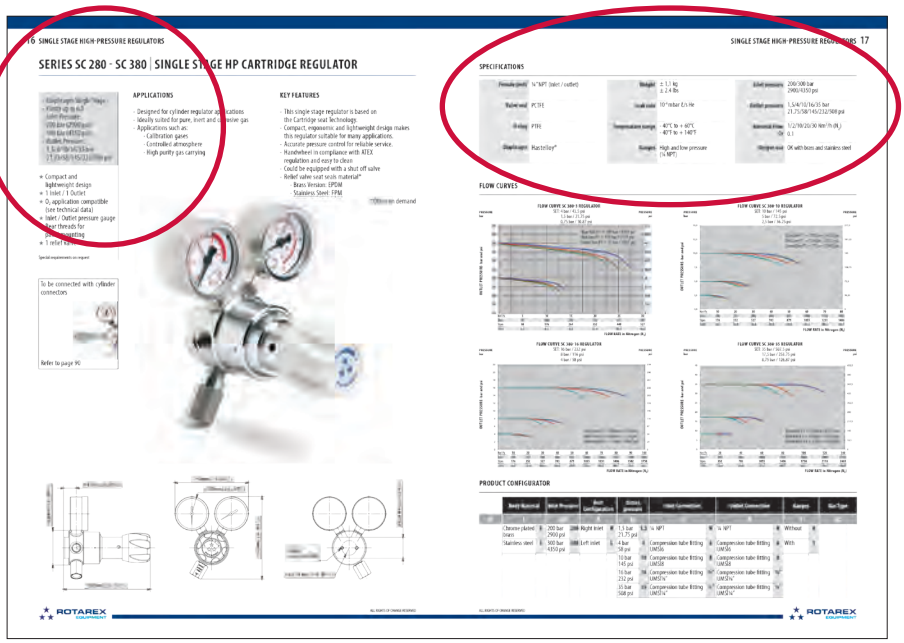


SELECTING THE RIGHT REGULATOR

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 ⅜, ¼ 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 :



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 resistence, 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 austentic 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, resistence and low-friction flow properties.

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

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

O-RING MATERIALS

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

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

For Cartridge:

PTFE: Polytétrafluoroéthylène

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

INLET / OUTLET PRESSURE

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

CYLINDER CONNECTORS

Specific cylinder valve connections are required for each gas type. The standard available connections are NPT ¼" 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.

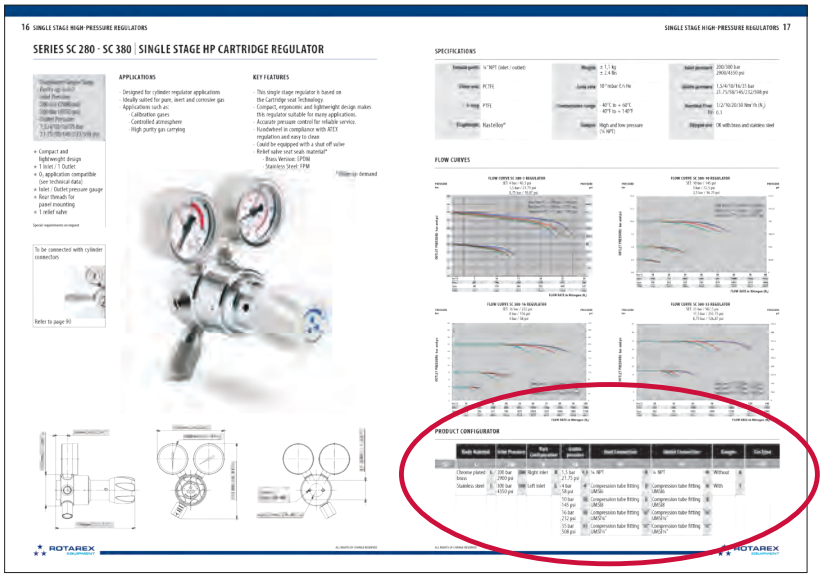
FILTER MATERIAL

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 SC 280 - SC 380 | SINGLE STAGE HP CARTRIDGE REGULATOR

APPLICATIONS

KEY FEATURES

SINGLE STAGE HIGH-PRESSURE REGULATORS 17

SPECIFICATIONS

FLOW CURVES

PRODUCT CONFIGURATOR

CLEANING

All products, regardless of gas application, are cleaned to remove all traces of residue and grease using the same procedures as for O_2 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:
  1,5/4/10/16/35/50 bar
  21.75/58/145/232/508/
  725 psi

★ Compact and lightweight design
★ 1 Inlet / 1 Outlet
★ O_2 application compatible (see technical data)
★ Inlet / Outlet pressure gauge
★ Rear threads for panel mounting
★ 1 relief valve

Special requirements on request

To be connected with cylinder connectors

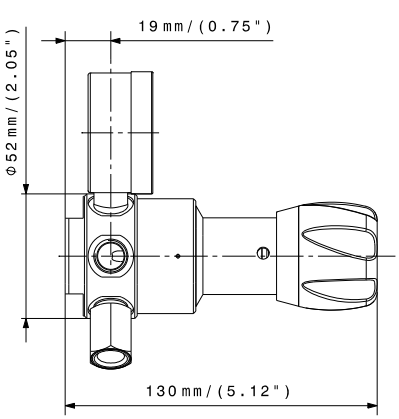
APPLICATIONS

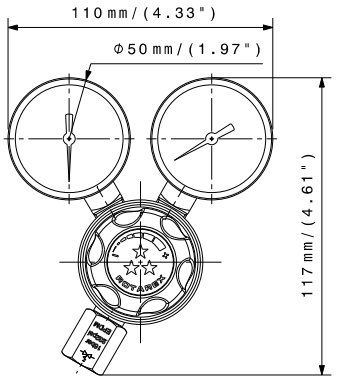
- Designed for cylinder regulator applications
- Ideally suited for pure, inert and corrosive gas
- Applications such as:
  · Calibration gases
  · Controlled atmosphere
  · High purity gas carrying

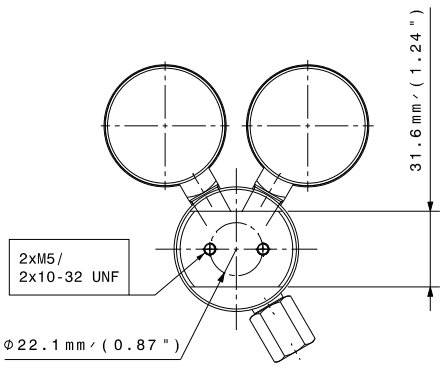
KEY FEATURES

- 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





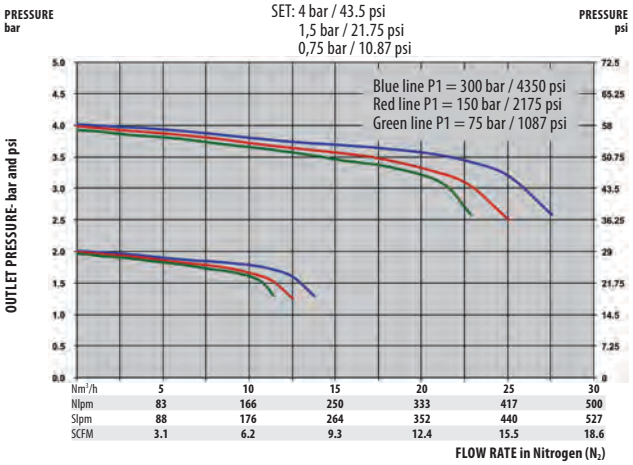


SPECIFICATIONS

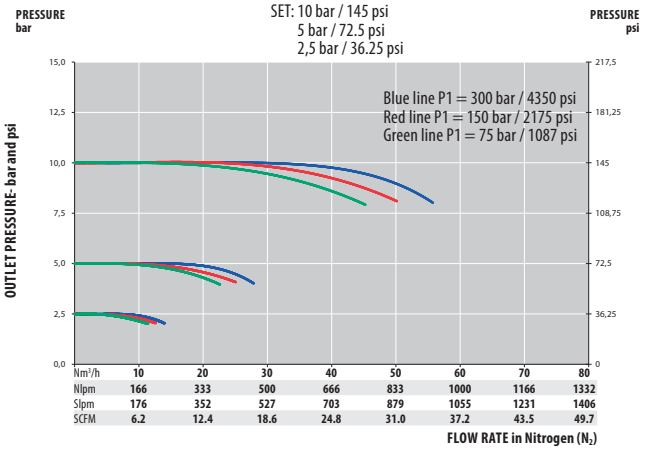
Female ports	¼" NPT (inlet / outlet)	**Weight**	± 1,1 kg ± 2.4 lbs	**Inlet pressure**	200/300 bar 2900/4350 psi
Valve seal	PCTFE	**Leak rate**	10^{-8} mbar ℓ/s He	**Outlet pressure**	1,5/4/10/16/35/50 bar 21.75/58/145/232/508/725 psi
O-ring	PTFE	**Temperature range**	- 40°C to + 60°C - 40°F to + 140°F	**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

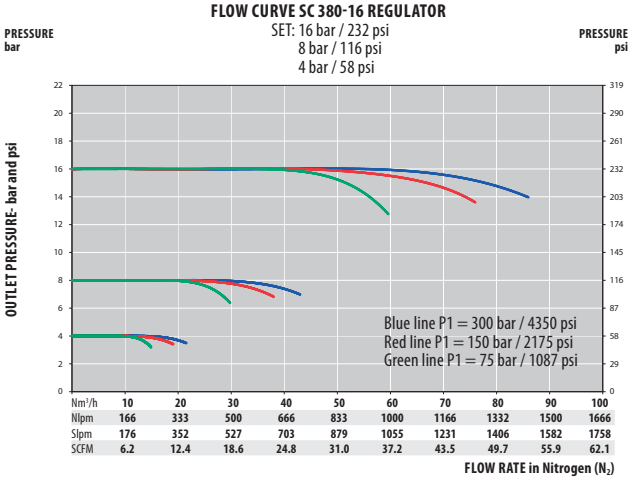
FLOW CURVE SC 380-3 REGULATOR



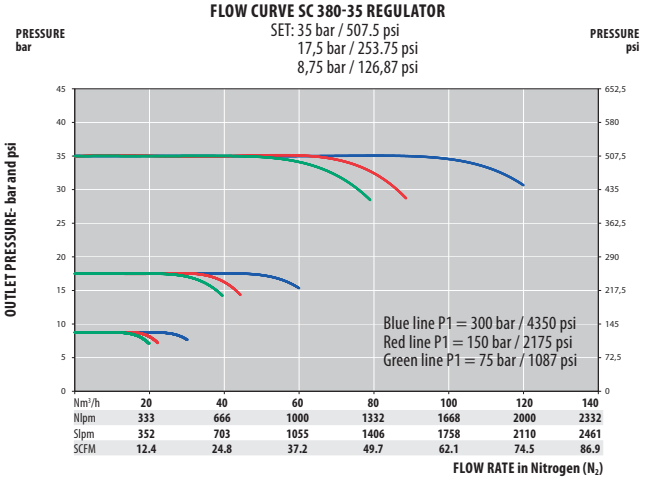
FLOW CURVE SC 380-10 REGULATOR



FLOW CURVE SC 380-16 REGULATOR



FLOW CURVE SC 380-35 REGULATOR



PRODUCT CONFIGURATOR

	Body Material		Inlet Pressure		Port Configuration		Outlet pressure		Inlet Connection		Outlet Connection		Gauges		Gas Type
SC	L		280		R		10		N		N		1		N2
	Chrome plated brass	L	200 bar 2900 psi	280	Right inlet	R	1,5 bar 21.75 psi	1,5	¼ NPT	N	¼ NPT	N	With	1	
	Stainless steel	I	300 bar 4350 psi	380	Left inlet	L	4 bar 58 psi	4							
							10 bar 145 psi	10							
							16 bar 232 psi	16							
							35 bar 508 psi	35							
							50 bar 725 psi	50							

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
★ O_2 application compatible (with inlet pressure max 30 bar)
★ Inlet/outlet pressure gauges

Special requirements on request

To be connected with cylinder connectors

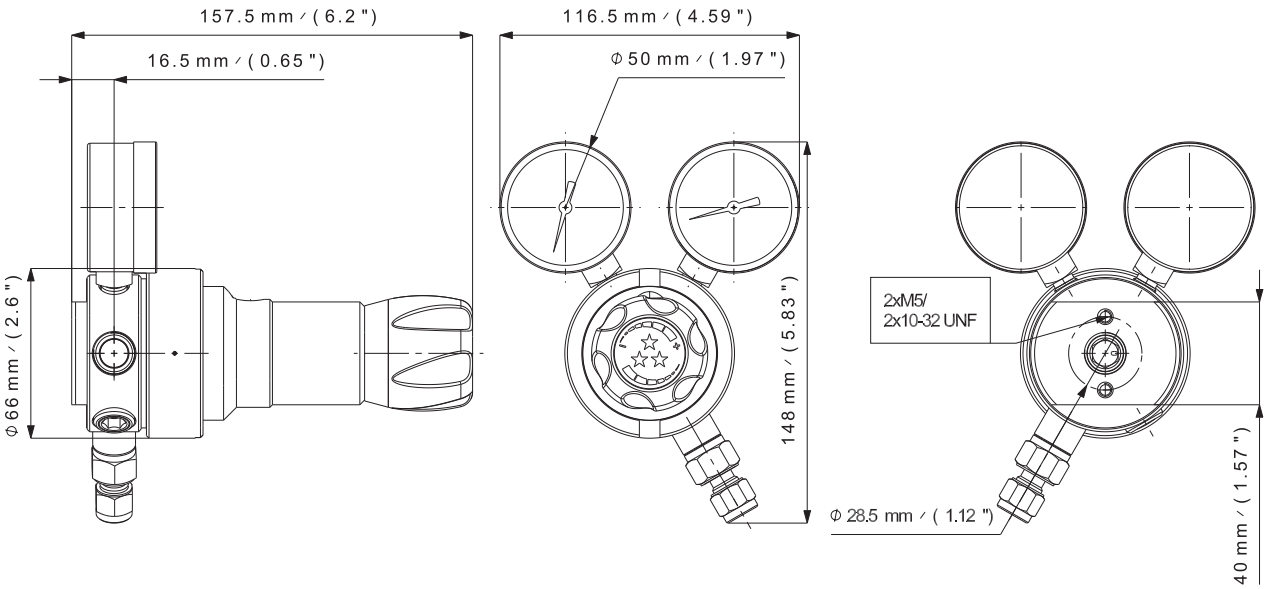
Refer to page 90

APPLICATIONS

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

KEY FEATURES

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



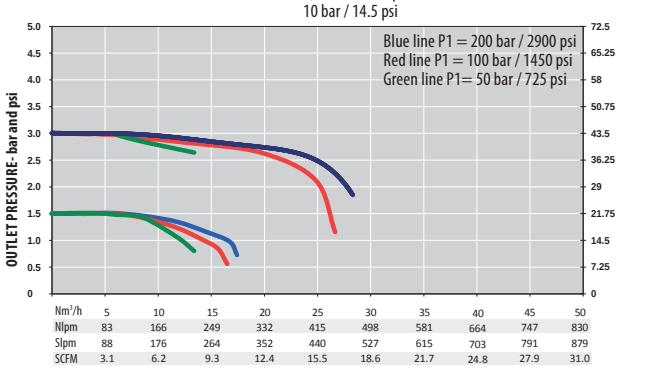
SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G ⅜ (outlet) or ¼ 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	**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 ¼ NPT)	**Oxygen use**	OK with inlet pressure ≤ 30 bar max

FLOW CURVES

FLOW CURVE S 220-3 REGULATOR

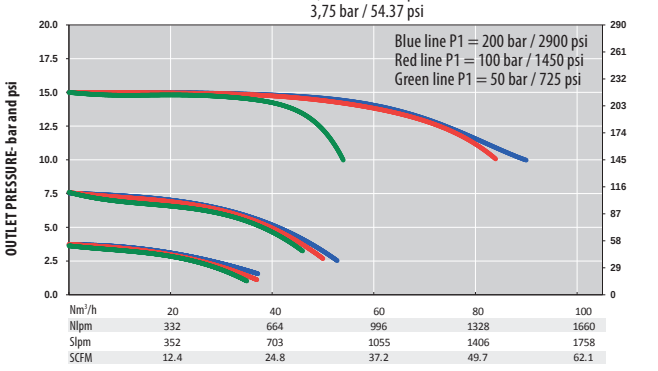
SET: 3 bar / 43.5 psi
1,5 bar / 21.75 psi
10 bar / 14.5 psi



Nm^3/h	5	10	15	20	25	30	35	40	45	50
Nlpm	83	166	249	332	415	498	581	664	747	830
Slpm	88	176	264	352	440	527	615	703	791	879
SCFM	3.1	6.2	9.3	12.4	15.5	18.6	21.7	24.8	27.9	31.0

FLOW CURVE S 220-15 REGULATOR

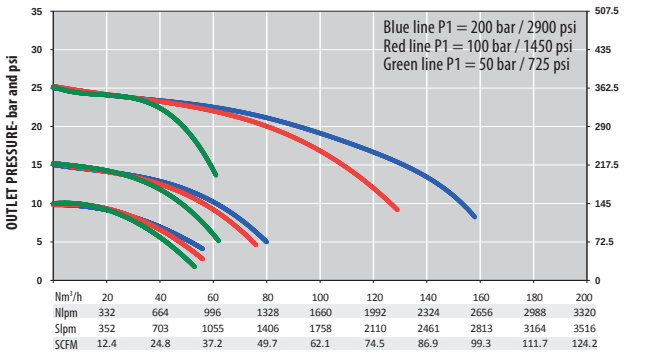
SET: 15 bar / 217.5 psi
7,5 bar / 108.75 psi
3,75 bar / 54.37 psi



Nm^3/h	20	40	60	80	100
Nlpm	332	664	996	1328	1660
Slpm	352	703	1055	1406	1758
SCFM	12.4	24.8	37.2	49.7	62.1

FLOW CURVE S 220-25 REGULATOR

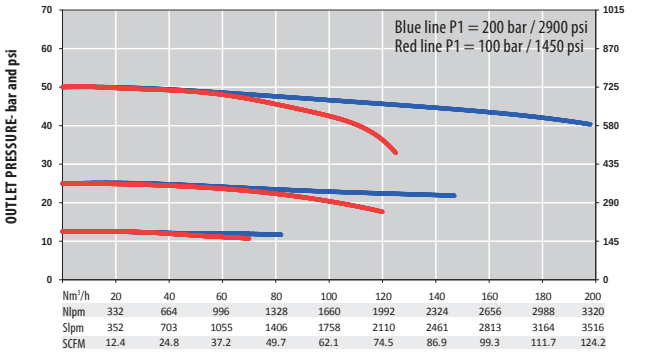
SET: 25 bar / 362.5 psi
15 bar / 217.5 psi
10 bar / 145 psi



Nm^3/h	20	40	60	80	100	120	140	160	180	200
Nlpm	332	664	996	1328	1660	1992	2324	2656	2988	3320
Slpm	352	703	1055	1406	1758	2110	2461	2813	3164	3516
SCFM	12.4	24.8	37.2	49.7	62.1	74.5	86.9	99.3	111.7	124.2

FLOW CURVE S 220-50 REGULATOR

SET: 50 bar / 725 psi
25 bar / 362.5 psi
12,5 bar / 181.25 psi



Nm^3/h	20	40	60	80	100	120	140	160	180	200
Nlpm	332	664	996	1328	1660	1992	2324	2656	2988	3320
Slpm	352	703	1055	1406	1758	2110	2461	2813	3164	3516
SCFM	12.4	24.8	37.2	49.7	62.1	74.5	86.9	99.3	111.7	124.2

PRODUCT CONFIGURATOR

	Body Material			Outlet Pressure		End Connections		O-ring Materials (relief valve)	Gauges		Ports Configuration	
S	I		220	15		N		FPM	1		A	
	Stainless steel	I		3 bar 44 psi	3	16 x 1.336 - G ⅜	16	FPM - Standard	With	1	Standard	A
				15 bar 218 psi	15	¼ NPT - ¼ NPT	N	EPDM			Reverse Inlet/outlet*	R
				25 bar 360 psi	25							
				50 bar 725 psi	50							

*Only available for NPT version

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
★ O_2 application compatible with brass version only
★ Inlet/outlet pressure gauges

Special requirements on request

APPLICATIONS

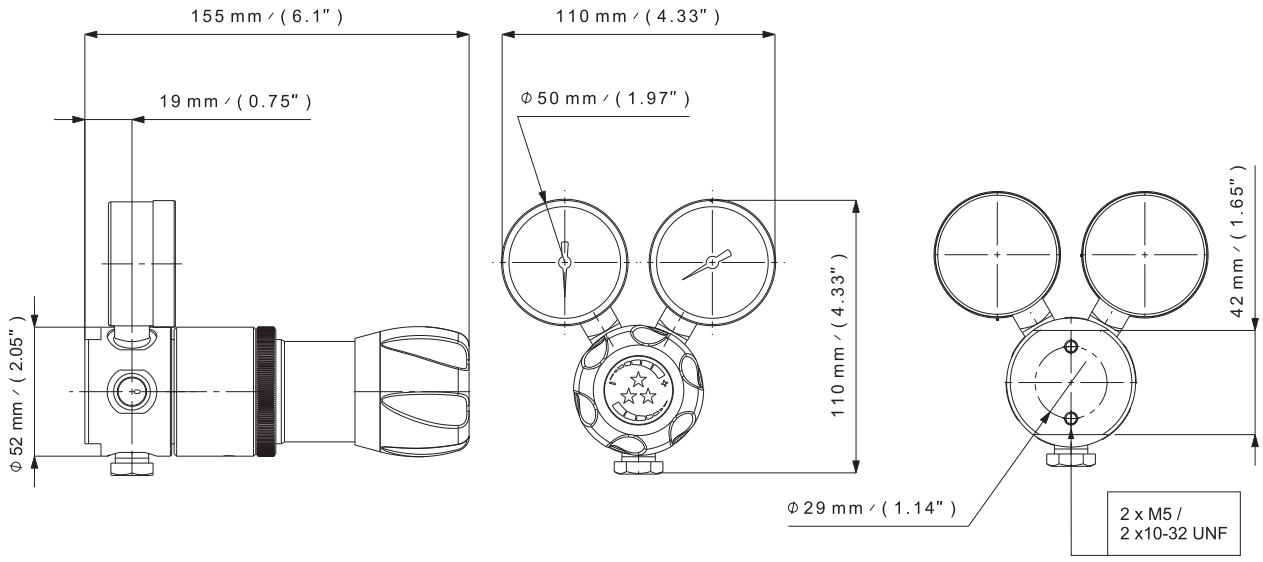
- Designed for cylinder regulator applications.
- Ideally suited to put vessels under pressure, leak detection and purge of pipe work.

KEY FEATURES

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

To be connected with cylinder connectors

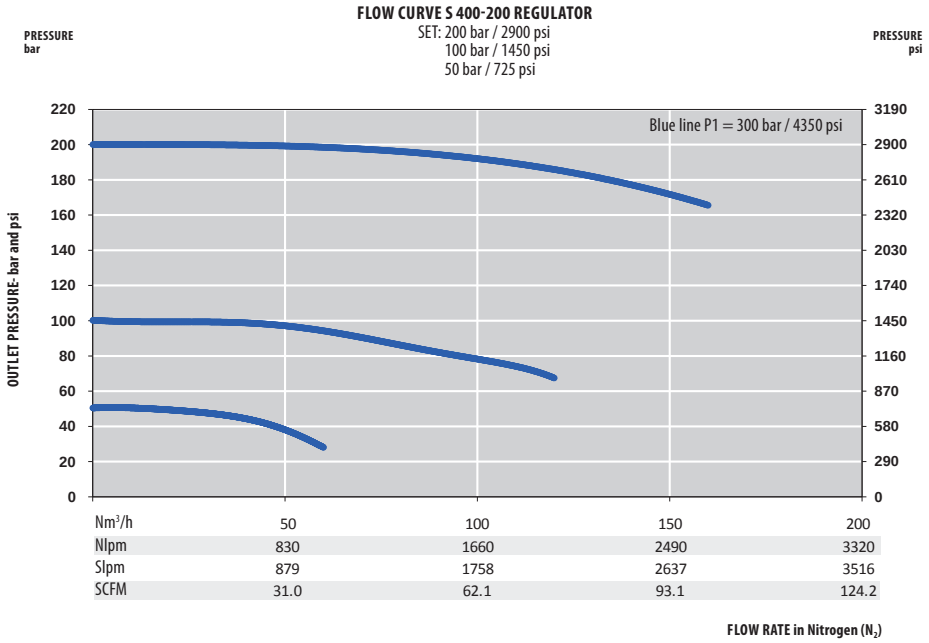
Refer to page 90



SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G ⅜ (outlet) or ¼ 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 EPDM - Standard 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 ¼ 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 ⅜	16	NBR	With	1
	Stainless steel	I	With a safety valve connection available	S		¼ NPT - ¼ NPT	N	EPDM - Standard		
								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
★ O_2 application compatible, up to 200 bar inlet pressure for stainless steel version
★ Inlet/outlet pressure gauges
★ 1 relief valve

Special requirements on request

To be connected with cylinder connectors

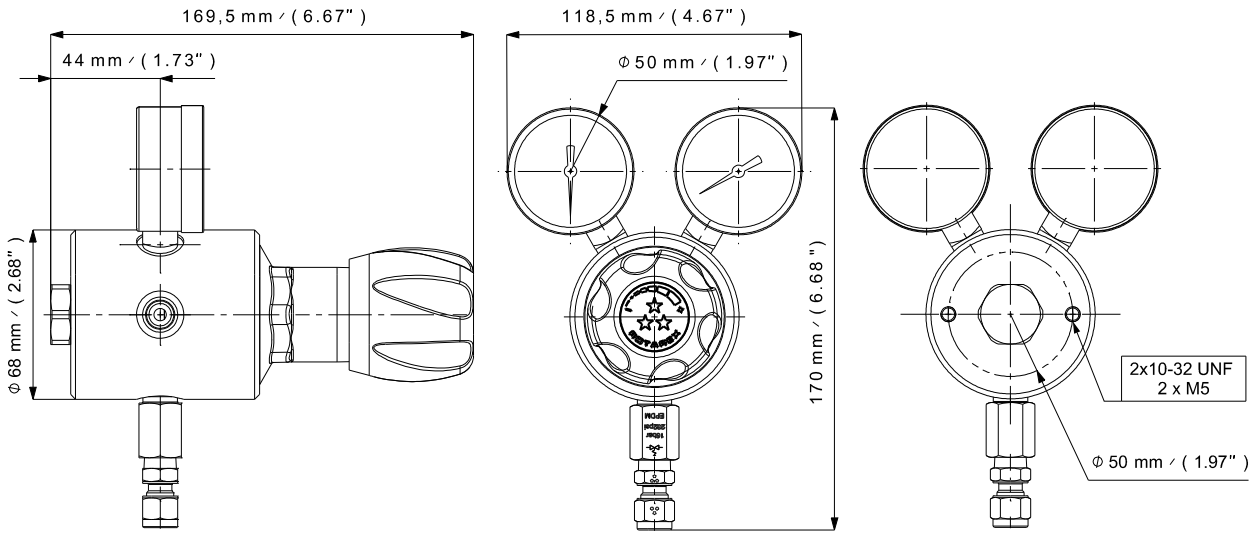
Refer to page 90

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.



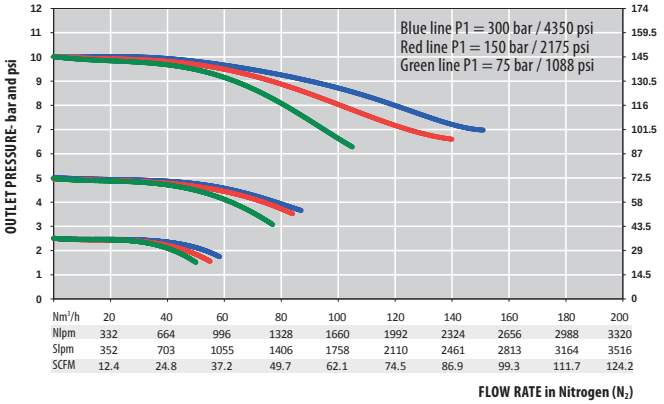
SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G 3/8 (outlet) or ¼ 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 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 ¼ NPT)	**Oxygen use**	Brass version: OK Stainless steel version: inlet pressure ≤ 200 bar

FLOW CURVES

FLOW CURVE S 800-10 REGULATOR

SET: 10 bar / 145 psi
5 bar / 72.5 psi
2,5 bar / 36.35 psi

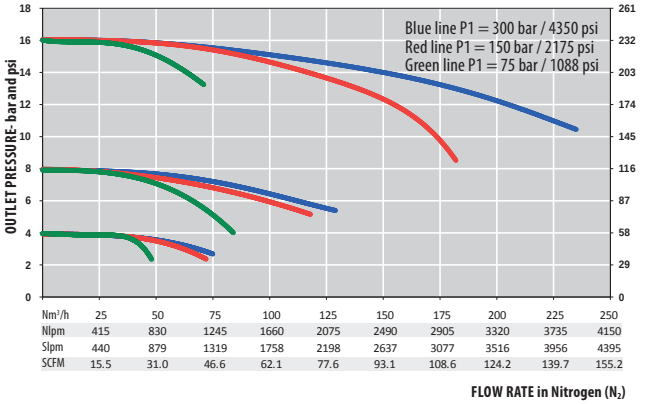


Nm^3/h	20	40	60	80	100	120	140	160	180	200
Nlpm	332	664	996	1328	1660	1992	2324	2656	2988	3320
Slpm	352	703	1055	1406	1758	2110	2461	2813	3164	3516
SCFM	12.4	24.8	37.2	49.7	62.1	74.5	86.9	99.3	111.7	124.2

FLOW RATE in Nitrogen (N_2)

FLOW CURVE SL 800-16 REGULATOR

SET: 16 bar / 232 psi
8 bar / 116 psi
4 bar / 58 psi

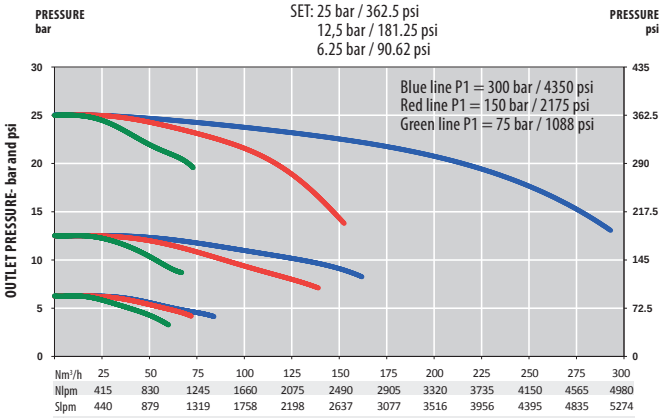


Nm^3/h	25	50	75	100	125	150	175	200	225	250
Nlpm	415	830	1245	1660	2075	2490	2905	3320	3735	4150
Slpm	440	879	1319	1758	2198	2637	3077	3516	3956	4395
SCFM	15.5	31.0	46.6	62.1	77.6	93.1	108.6	124.2	139.7	155.2

FLOW RATE in Nitrogen (N_2)

FLOW CURVE S 800-25 REGULATOR

SET: 25 bar / 362.5 psi
12,5 bar / 181.25 psi
6.25 bar / 90.62 psi

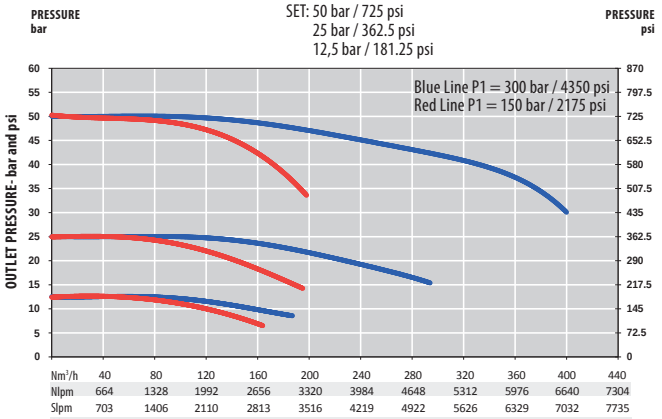


Nm^3/h	25	50	75	100	125	150	175	200	225	250	275	300
Nlpm	415	830	1245	1660	2075	2490	2905	3320	3735	4150	4565	4980
Slpm	440	879	1319	1758	2198	2637	3077	3516	3956	4395	4835	5274
SCFM	15.5	31.0	46.6	62.1	77.6	93.1	108.6	124.2	139.7	155.2	170.7	186.2

FLOW RATE in Nitrogen (N_2)

FLOW CURVE S 800-50 REGULATOR

SET: 50 bar / 725 psi
25 bar / 362.5 psi
12,5 bar / 181.25 psi



Nm^3/h	40	80	120	160	200	240	280	320	360	400	440
Nlpm	664	1328	1992	2656	3320	3984	4648	5312	5976	6640	7304
Slpm	703	1406	2110	2813	3516	4219	4922	5626	6329	7032	7735
SCFM	24.8	49.7	74.5	99.3	124.2	149.0	173.8	198.7	223.5	248.3	273.2

FLOW RATE in Nitrogen (N_2)

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	10	16 x 1.336 - G 3/8	16	EPDM - Standard	With	1
	Chrome plated brass	L		16 bar 232 psi	16	¼ NPT - ¼ NPT	N	FPM		
	Stainless steel	I		25 bar 362.5 psi	25					
				50 bar 725 psi	50					

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
★ O_2 application compatible (see technical data)
★ Inlet / Outlet pressure gauge
★ 1 relief valve

Special requirements on request

To be connected with cylinder connectors

Refer to page 90

APPLICATIONS

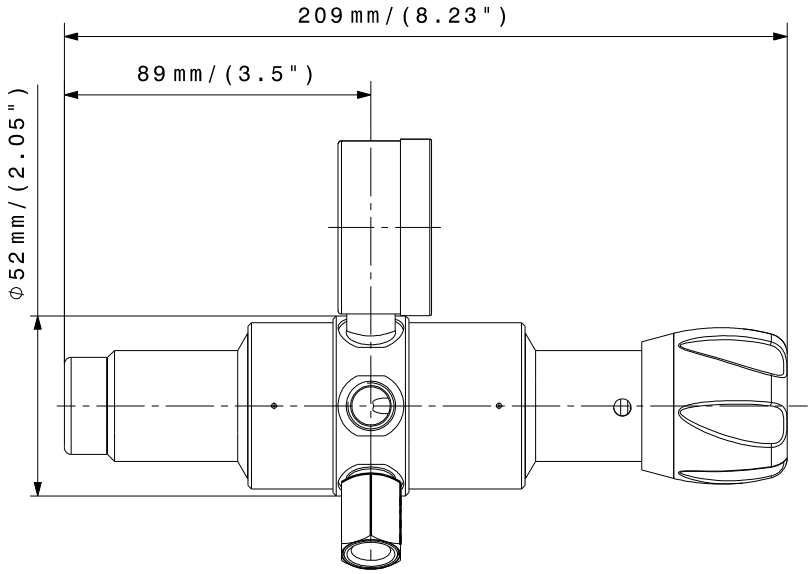
This regulator is ideally suited as cylinder regulator for pure, inert and corrosive gas applications such as analytical instrumentation.

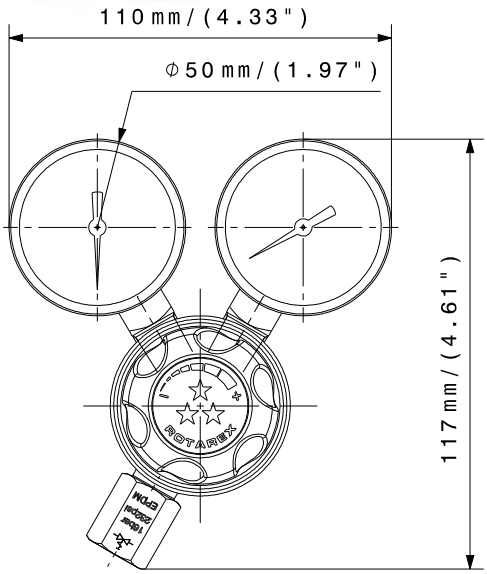
- Gas Chromatograph
- Carrying gas
- Calibration gas

GENERAL

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

*Other on demand





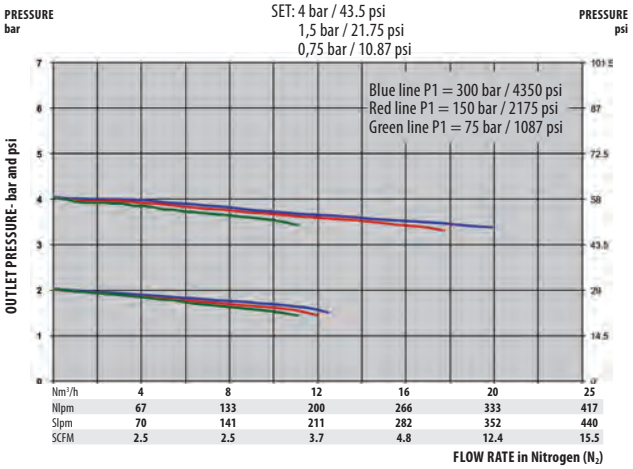
SPECIFICATIONS

Female ports	¼" NPT (Inlet/Outlet)	**Weight**	± 1,5 kg ± 3.3 lbs	**Inlet pressure**	200/300 bar 2900/4350 psi
Valve seal	PCTFE	**Leak rate**	10^{-8} mbar ℓ/s He	**Outlet pressure**	1,5/4/10/16/35 bar 21.75/58/145/232/508 psi
O-ring	PTFE	**Temperature range**	- 40°C to + 60°C - 40°F to + 140°F	**Nominal Flow Cv**	1/2/10/20/30 Nm^3/h (N_2) 0.06
Diaphragm	Hastelloy®	**Gauges**	High and low pressure (¼ NPT)	**Oxygen use**	OK with brass and stainless steel

FLOW CURVES

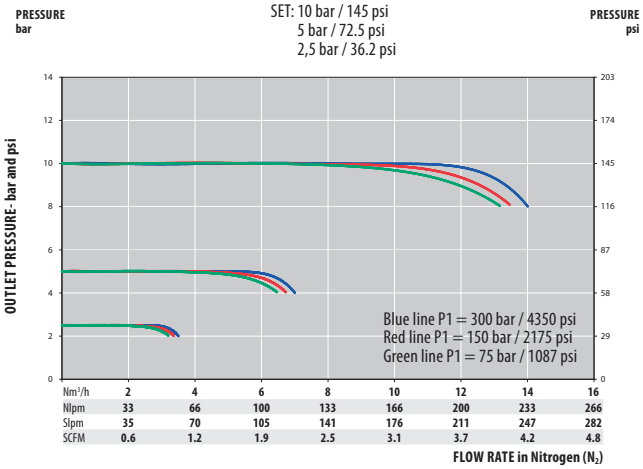
FLOW CURVE DC 380-3 REGULATOR

SET: 4 bar / 43.5 psi
1,5 bar / 21.75 psi
0,75 bar / 10.87 psi



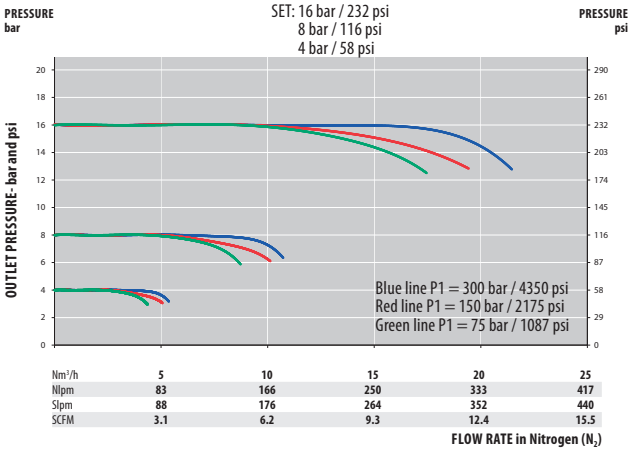
FLOW CURVE DCL 380-10 REGULATOR

SET: 10 bar / 145 psi
5 bar / 72.5 psi
2,5 bar / 36.2 psi



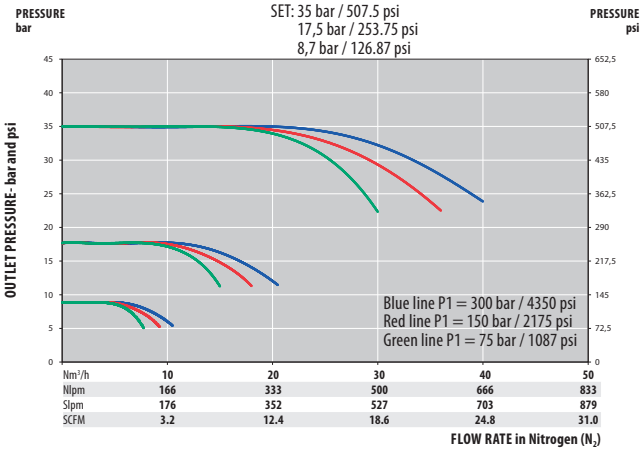
FLOW CURVE DC 380-16 REGULATOR

SET: 16 bar / 232 psi
8 bar / 116 psi
4 bar / 58 psi



FLOW CURVE DC 380-35 REGULATOR

SET: 35 bar / 507.5 psi
17,5 bar / 253.75 psi
8,7 bar / 126.87 psi



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	With	1	
	Stainless steel	I	300 bar 4350 psi	380	Left inlet	L	4 bar 58 psi	4							
							10 bar 145 psi	10							
							16 bar 232 psi	16							
							35 bar 508 psi	35							

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
★ O_2 application compatible (brass only)
★ Inlet/outlet pressure gauges
★ 1 relief valve

Special requirements on request

To be connected with cylinder connectors

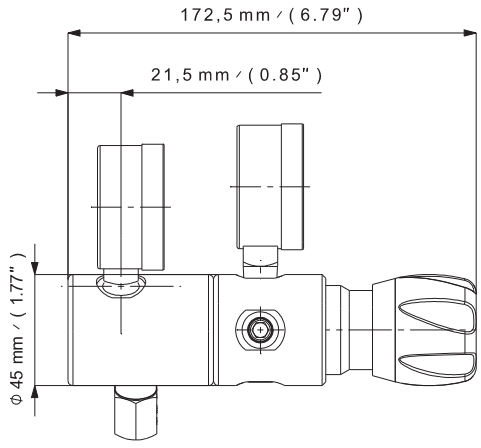
Refer to page 90

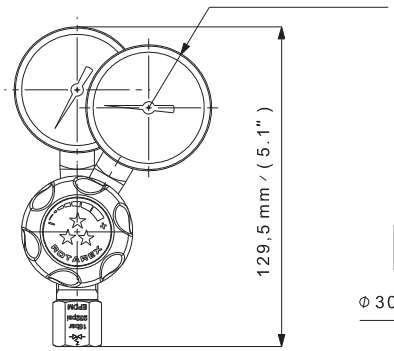
APPLICATIONS

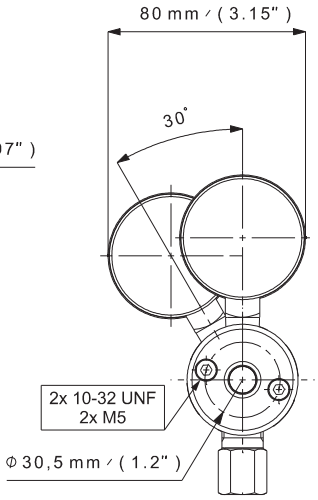
- Designed for cylinder regulator applications.
- Ideally suited for pure, inert and mildly corrosive gas applications requiring a very stable outlet pressure together with a very sensitive set up of this outlet pressure.

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

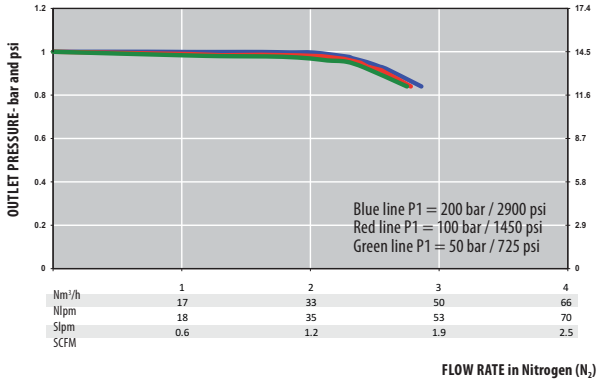
Female ports	16 x 1.336 (inlet) - G ⅜ (outlet) or ¼ NPT (inlet/outlet)
Seat seal	PTFE
O-ring	EPDM - Standard FPM
Piston	Brass (Brass version) AISI 316L (SS version)
Below	Bronze or AISI 316L (SS version)

Weight	± 1,6 kg ± 3.5 lbs
Leak rate	10^{-8} mbar ℓ/s He
Temperature range	- 20°C to + 60°C - 4°F to + 140°F
Gauges	High and low pressure (M10 x 1 or ¼ NPT)

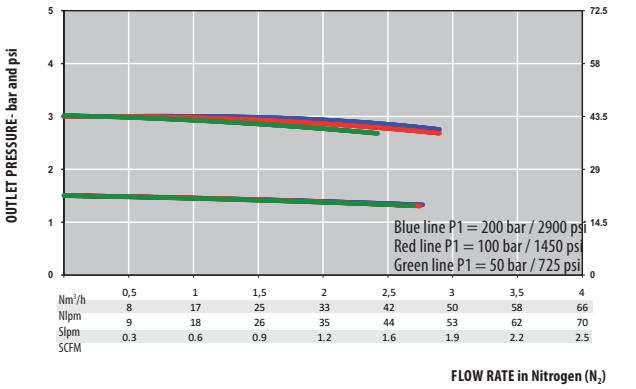
Inlet pressure	200 bar 2900 psi
Outlet pressure	1/3/10 bar 14.5/44/145 psi
Nominal Flow	2/2,5/3,5 Nm^3/h (N_2)
Oxygen use	Brass only

FLOW CURVES

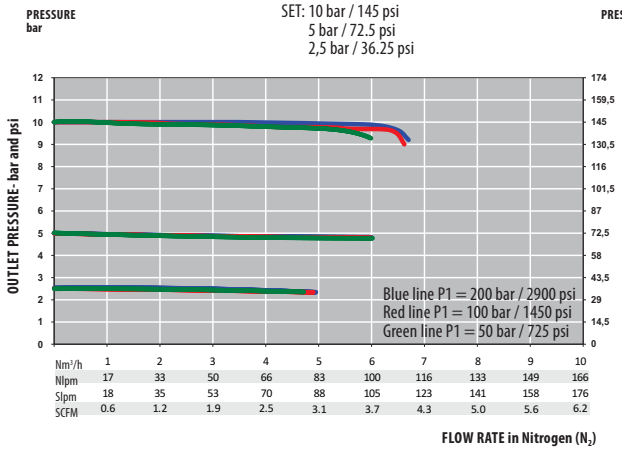
FLOW CURVE D 230-1 REGULATOR
SET: 1 bar / 14.5 psi



FLOW CURVE D 230-3 REGULATOR
SET: 3 bar / 43,5 psi
1,5 bar / 21.75 psi



FLOW CURVE D 230-10 REGULATOR
SET: 10 bar / 145 psi
5 bar / 72.5 psi
2,5 bar / 36.25 psi



PRODUCT CONFIGURATOR

	Body Material			Outlet Pressure		End Connections		O-ring Material	Gauges		Handwheel	
D	L		230	10		N		EPDM	1		H	
	Chrome plated brass	L		1 bar 14.5 psi	1	In: 16 x 1.336 Out: G ⅜	16	EPDM - Standard	With	1	With - standard	H
	Stainless steel	I		3 bar 44 psi	3	¼ NPT	N	FPM				
				10 bar 145 psi	10							

SERIES D 230-0.1 | DUAL STAGE HP REGULATOR

- Piston/diaphragm dual stage
- Purity up to 6.0
- Inlet pressure: 200 bar (2900 psi)
- Outlet pressure: 0,01 - 0,1 bar 0.14 - 1.45 psi

★ Compact and lightweight design
★ 1 inlet / 2 outlets
★ O_2 application compatible (brass only)
★ Inlet/outlet pressure gauges
★ 1 safety relief valve

Special requirements on request

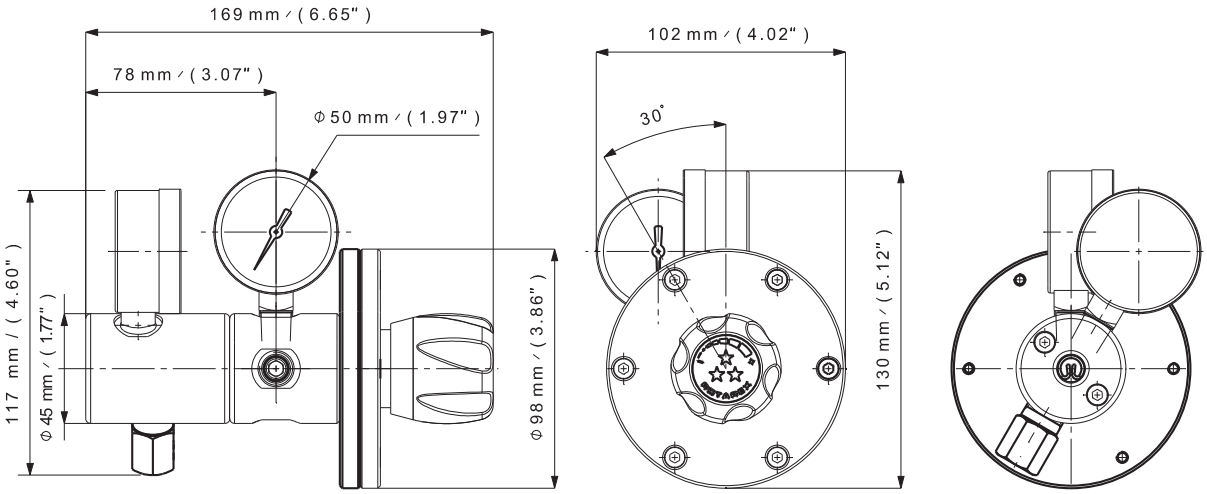
APPLICATIONS

- 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 230-0.1 regulator is based on the SL 20-0.1 proven low pressure regulator.
- Guarantees a stable low flow due to the combination of the piston and diaphragm technologies.
- The rear threads can be used for wall mounting.
- Can also be equipped with a needle or shut off valve at the outlet.

Rear inlet view - with cylinder connector



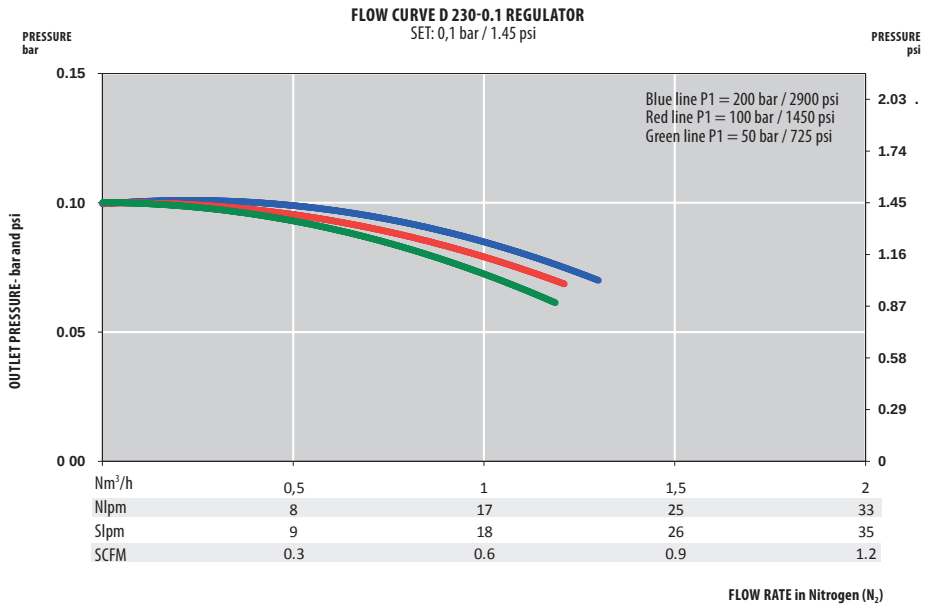
SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G ⅜ (outlet) ¼ NPT (inlet/outlet)
Seat seal	PTFE
O-ring	EPDM - Standard FPM
Piston	Brass (Brass version) AISI 316L (SS version)
Diaphragm	AISI 304

Weight	± 1,5 kg ± 3.3 lbs
Leak rate	10^{-8} mbar ℓ/s He
Temperature range	- 20°C to + 60°C - 4°F to + 140°F
Gauges	High and low pressure (M10 x 1 or ¼ NPT)

Inlet pressure	200 bar 2900 psi
Outlet pressure	0,01/0,1 bar 0.14/1.45 psi
Nominal Flow	0,5 Nm^3/h (N_2)
Oxygen use	Brass only

FLOW CURVES



PRODUCT CONFIGURATOR

	Body Material				End Connections		O-ring Material	Gauges	
D	L		230	0.1	N		EPDM	1	
	Chrome plated brass	L			In: 16 x 1.336 Out: G ⅜	16	EPDM - standard	With	1
	Stainless steel	I			NPT ¼ (inlet/outlet)	N	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
★ O_2 application compatible

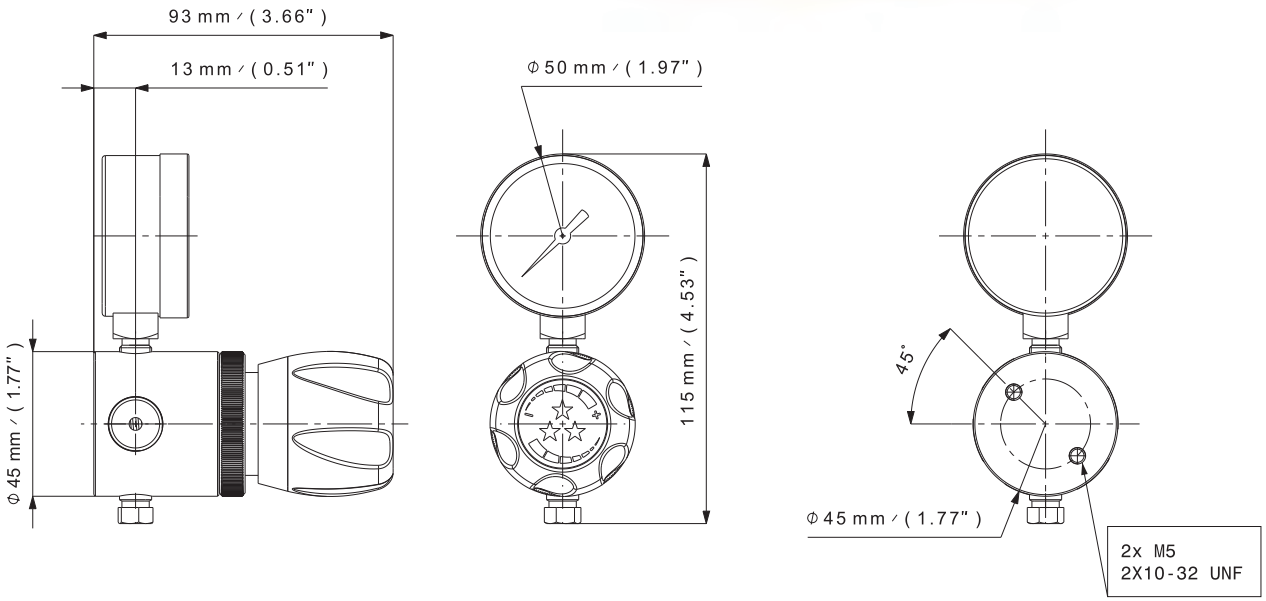
Special requirements on request

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 NH_3 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.

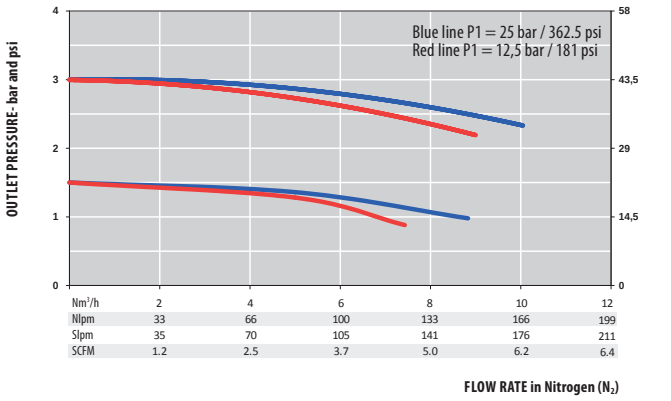


SPECIFICATIONS

Female ports	G ⅜ or ¼ NPT (inlet/outlet)	**Weight**	± 0,6 kg ± 1.32 lbs	**Inlet pressure max**	25 bar 360 psi
Seat seal	FPM EPDM	**Leak rate**	10^{-8} mbar ℓ/s He	**Outlet pressure**	3/8 bar 44 /116 psi
O-ring	FPM EPDM	**Temperature range**	- 20°C to + 60°C - 4°F to + 140°F	**Nominal Flow**	4,5/12 Nm^3/h (N_2)
Diaphragm	AISI 304 (brass version) Hastelloy® (SS version)	**Gauges**	Low pressure (M10 x 1 or ¼ NPT)	**Oxygen use**	OK for brass and stainless steel

FLOW CURVES

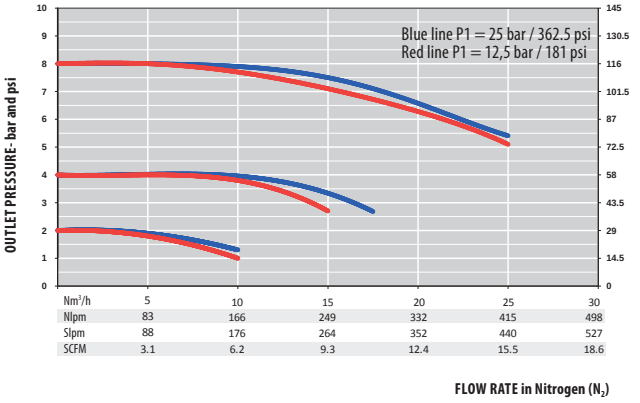
FLOW CURVE S 10-3 REGULATOR
SET: 3 bar / 43.5 psi
1,5 bar / 21.75 psi



Nm³/h	2	4	6	8	10	12
Nlpm	33	66	100	133	166	199
Slpm	35	70	105	141	176	211
SCFM	1.2	2.5	3.7	5.0	6.2	6.4

FLOW RATE in Nitrogen (N_2)

FLOW CURVE S 10-8 REGULATOR
SET: 8 bar / 116 psi
4 bar / 58 psi
2 bar / 29 psi



Nm³/h	5	10	15	20	25	30
Nlpm	83	166	249	332	415	498
Slpm	88	176	264	352	440	527
SCFM	3.1	6.2	9.3	12.4	15.5	18.6

FLOW RATE in Nitrogen (N_2)

PRODUCT CONFIGURATOR

	Body Material			Outlet Pressure		End Connections		O-ring Material	Gauges		Mounting		Ports Configuration	
S	L		10	8		G		EPDM	1		FR0		A	
	Chrome plated brass	L		3 bar 44 psi	3	G ⅜ - G ⅜	G	EPDM - Standard	With	1	Without Fixing Ring	FR0	Standard Configuration	A
	Stainless steel	I		8 bar 116 psi	8	¼ NPT - ¼ NPT	N	FPM			With Fixing Ring	FR1	Reverse inlet/ outlet	R

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
★ O_2 application compatible

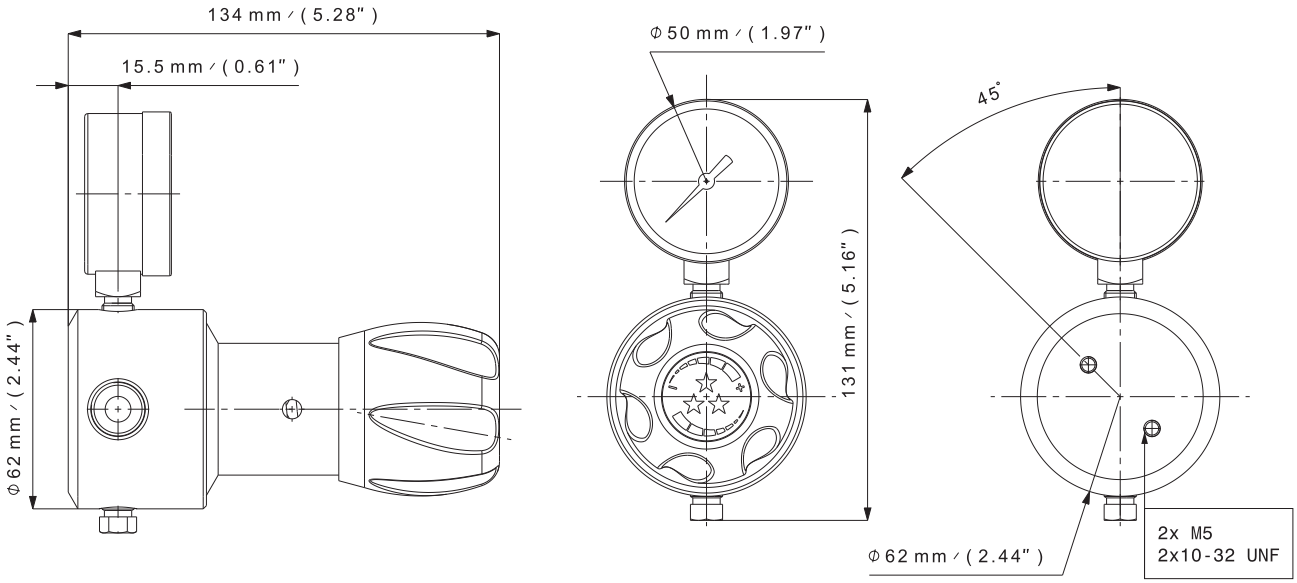
Special requirements on request

APPLICATIONS

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

KEY FEATURES

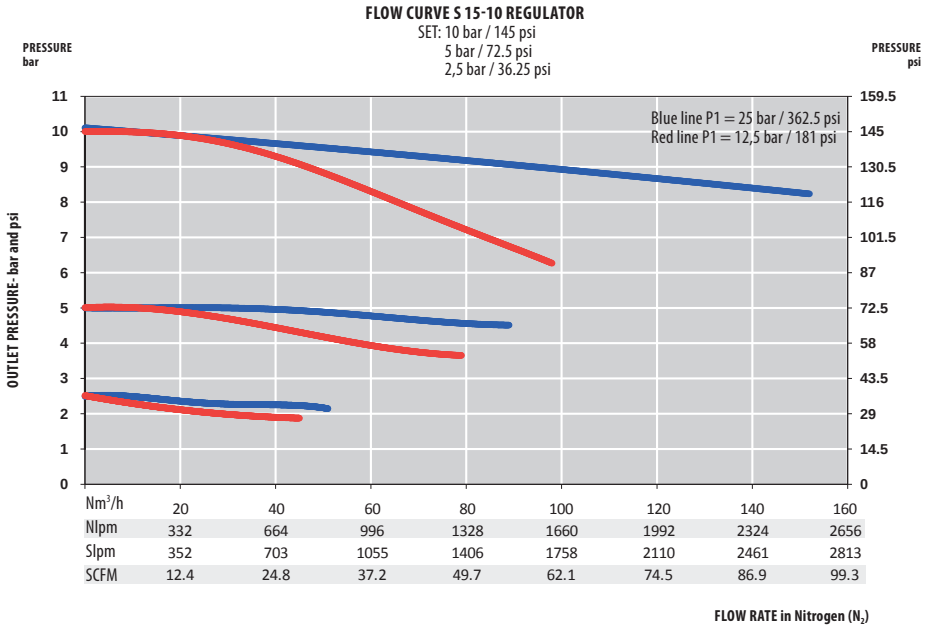
- As a second level of regulation the S 15 will supply a precise outlet pressure to the process.
- Can be used for wall or panel mounting with its compact design, the rear threads and fixing ring.
- Best-in-class pressure stability with Balanced-Valve Technology (Balanced-Valve Technology): the effect 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 ⅜ or ¼ NPT (inlet/outlet)	**Weight**	± 1,2 kg ± 2.64 lbs	**Inlet pressure**	25 bar 360 psi
Seat seal	FPM EPDM	**Leak rate**	10^{-8} mbar ℓ/s He	**Outlet pressure**	10 bar 145 psi
O-ring	FPM EPDM	**Temperature range**	- 20°C to + 60°C - 4°F to + 140°F	**Nominal Flow**	50 Nm^3/h (N_2)
Diaphragm	AISI 304 (brass version) Hastelloy® (SS version)	**Gauges**	Low pressure (M10 x 1 or ¼ 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		EPDM	1		A	
	Chrome plated brass	L		10 bar 145 psi	10	G ⅜ - G ⅜	G	EPDM - Standard	With	1	Standard Configuration	A
	Stainless steel	I				¼ NPT - ¼ NPT	N	FPM			Reverse inlet/outlet	R

SERIES S 20 | LINE REGULATOR

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

★ Accurate pressure delivery
★ Compact design
★ 2 inlets / 2 outlet
★ Rear Inlet for panel mounting
★ O_2 application compatible
(see technical data)

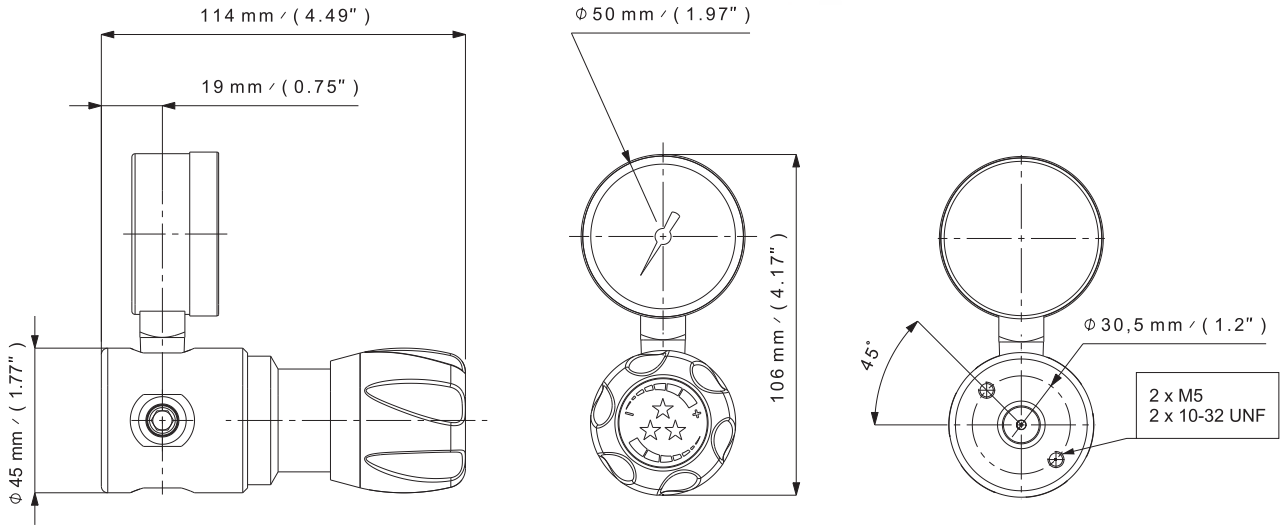
Special requirements on request

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)



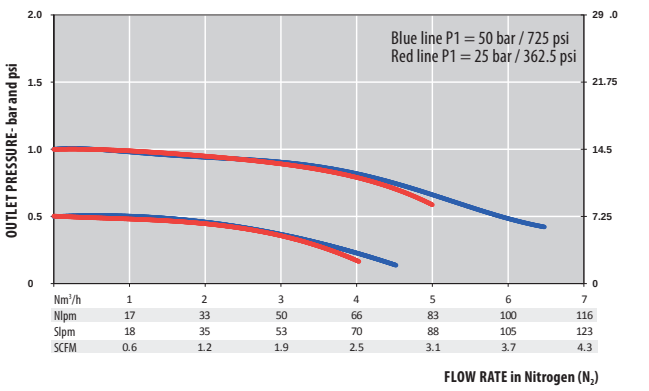
Drawing for ¼ NPT version

SPECIFICATIONS

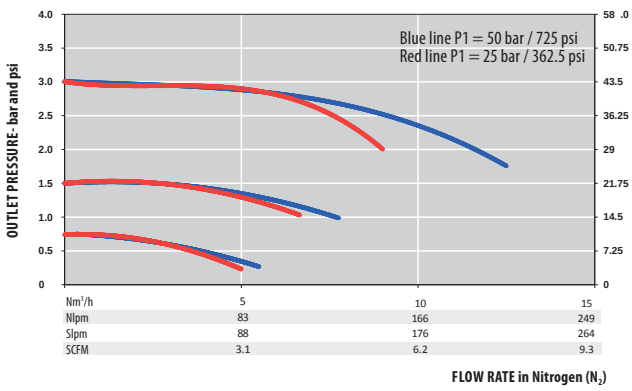
Female ports	G ⅜ or ¼ NPT (inlet/outlet)	**Weight**	± 0,5 kg ± 1.1 lbs	**Inlet pressure**	50 bar 725 psi
Seat seal	EPDM	**Leak rate**	10^{-8} mbar ℓ/s He	**Outlet pressure**	1/3/10 bar 14.5/44/145 psi
O-ring	EPDM - Standard FPM	**Temperature range**	- 20°C to + 60°C - 4°F to + 140°F	**Nominal Flow**	2/2,5/3,5 Nm^3/h (N_2)
Bellow	Bronze or AISI 316L (SS version)	**Gauges**	Low pressure (M10 x 1 or ¼ NPT)	**Oxygen use**	inlet pressure ≤ 30 bar max. for brass and stainless steel

FLOW CURVES

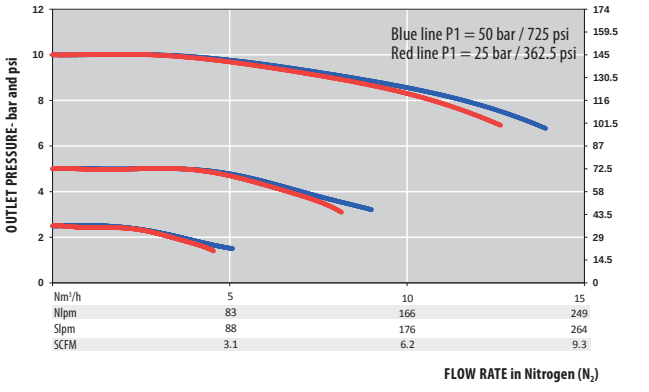
FLOW CURVE S 20-1 REGULATOR
SET: 1 bar / 14.5 psi
0,5 bar / 7.25 psi



FLOW CURVE S 20-3 REGULATOR
SET: 3 bar / 43.5 psi
1,5 bar / 21.75 psi
0,75 bar / 10.88 psi



FLOW CURVE S 20-10 REGULATOR
SET: 10 bar / 145 psi
5 bar / 72.5 psi
2,5 bar / 36.25 psi



PRODUCT CONFIGURATOR

	Body Material			Outlet Pressure		End Connections		O-ring Material	Gauge		Mounting		Ports Configuration	
S	L		20	10		G		EPDM	1		FR0		A	
	Chrome plated brass	L		1 bar 14.5 psi	1	G ⅜ - G ⅜	G	EPDM - Standard	With	1	Without Fixing Ring	FR0	Standard Configuration	A
	Stainless steel	I		3 bar 44 psi	3	¼ NPT - ¼ NPT	N	FPM			With Fixing Ring	FR1	Reverse inlet/outlet	R
				10 bar 145 psi	10									

SERIES S 20-0.1 | LINE REGULATOR

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

★ Very low outlet pressure
★ 2 inlets /2 outlet
★ Rear inlet
★ Rear threads for panel mounting
★ High accuracy due to large diaphragm
★ O_2 application compatible (see technical data)

Special requirements on request

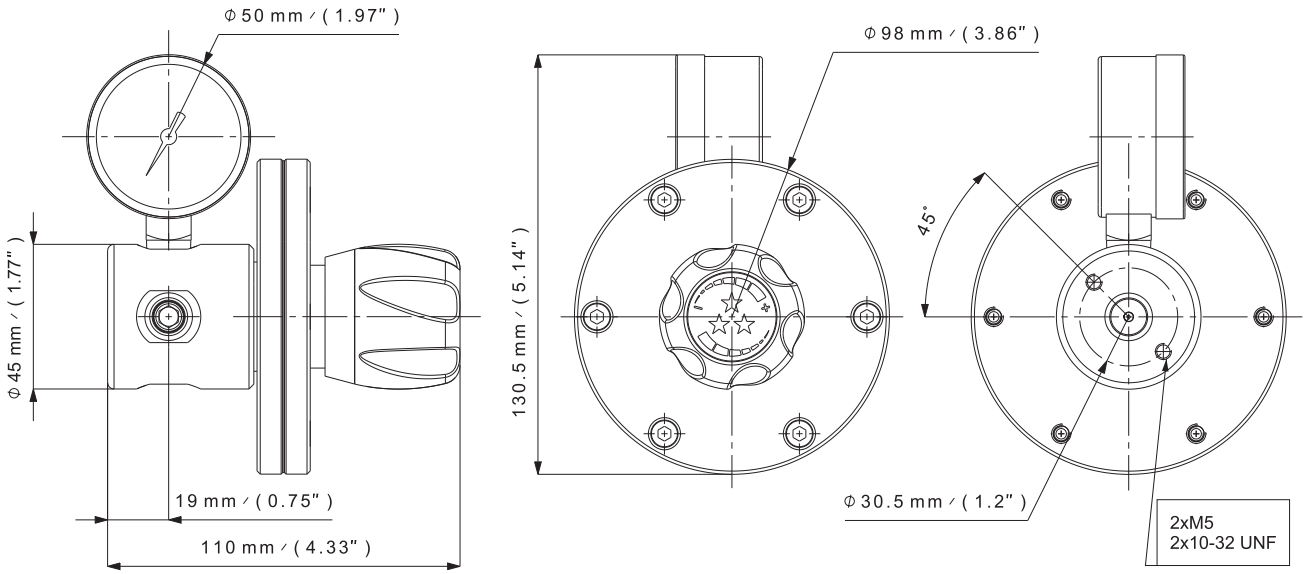
Rear inlet view

APPLICATIONS

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

KEY FEATURES

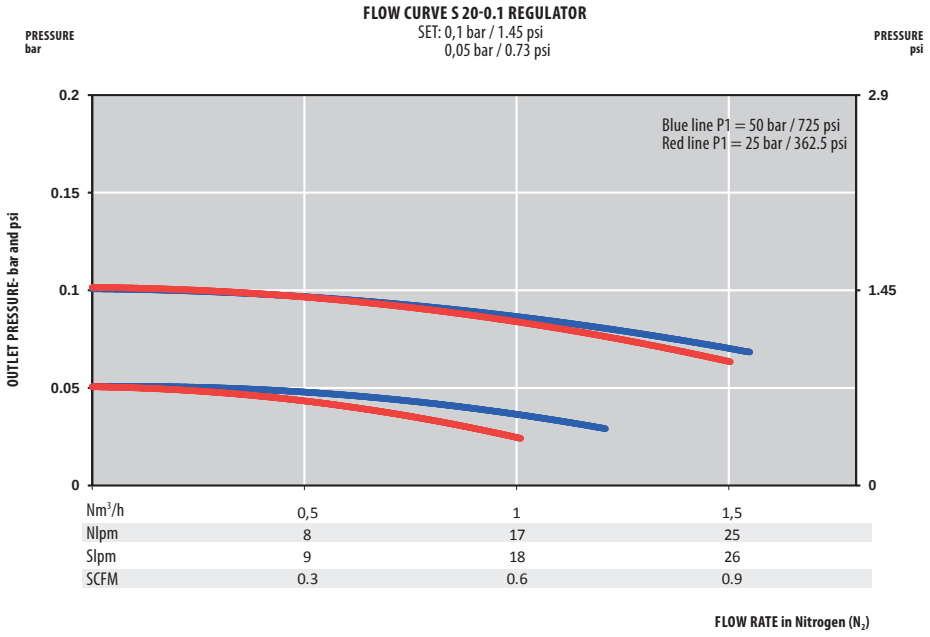
- With the rear threads, it can be used for wall mounting.



SPECIFICATIONS

Female ports	G ⅜ or ¼ 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 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 ¼ NPT)	**Oxygen use**	inlet pressure ≤ 30 bar max. for brass and stainless steel

FLOW CURVES



PRODUCT CONFIGURATOR

	Body Material				End Connections		O-ring Material	Gauges		Ports Configuration	
S	L		20	0.1	G		EPDM	1		A	
	Chrome plated brass	L			G ⅜ - G ⅜	G	EPDM - Standard	With	1	Standard Configuration	A
	Stainless steel	I			¼ NPT - ¼ NPT	N	FPM			Reverse inlet/outlet	R

SERIES S 55 | LINE REGULATOR

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

★ Accurate pressure delivery
★ Compact design
★ 2 inlets / 2 outlets
★ Rear Inlet for panel mounting
★ O_2 applications compatible (see technical data)

Special requirements on request

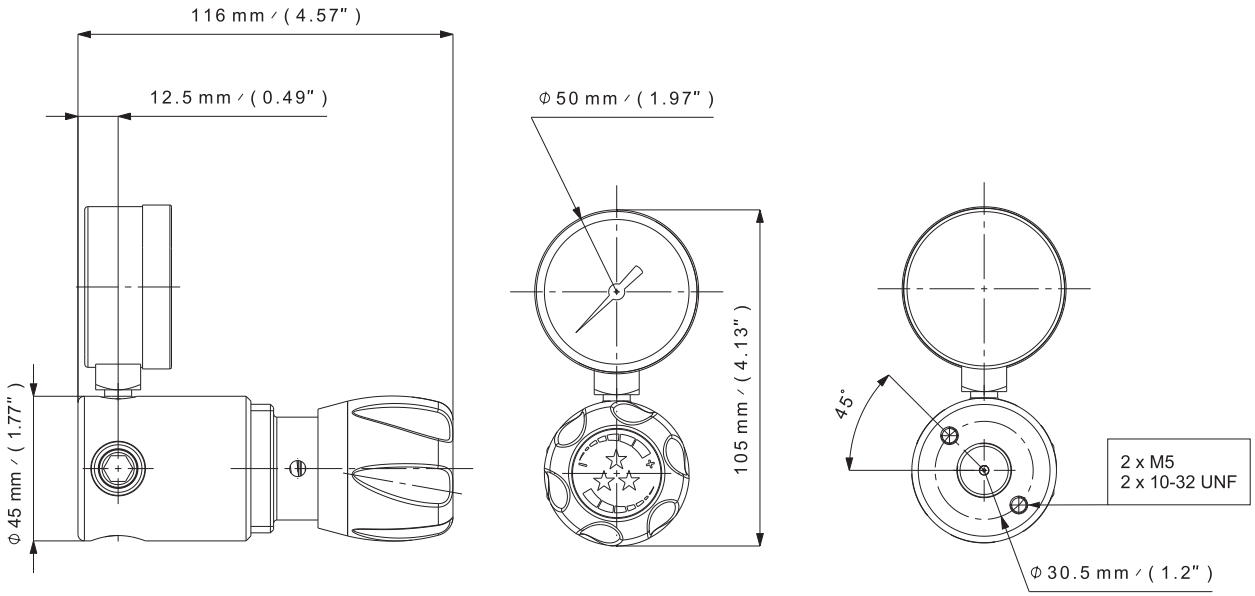
Rear inlet view

APPLICATIONS

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

KEY FEATURES

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

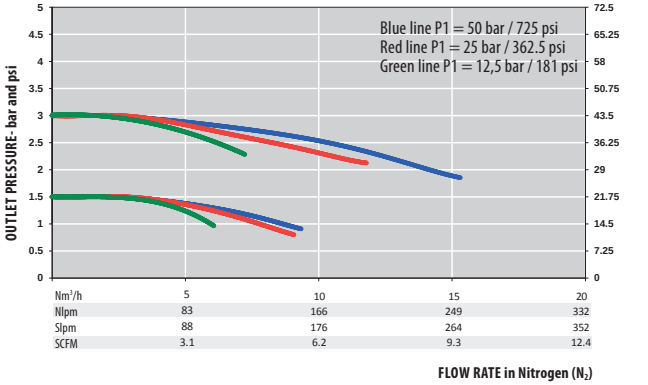


SPECIFICATIONS

Female ports	G ⅜ or ¼ 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**	3/10/16/35 bar 44/145/232/508 psi
O-ring	EPDM - Standard FPM	**Temperature range**	- 20°C to + 60°C - 4°F to + 140°F	**Nominal Flow**	2,5/3,5/5,5/10 Nm^3/h (N_2)
Diaphragm	AISI 304 (3/8/10 bar) Hastelloy® (16/35 bar)	**Gauges**	Low pressure (M10 x 1 or ¼ NPT)	**Oxygen use**	inlet pressure ≤ 30 bar max. for brass and stainless steel

FLOW CURVES

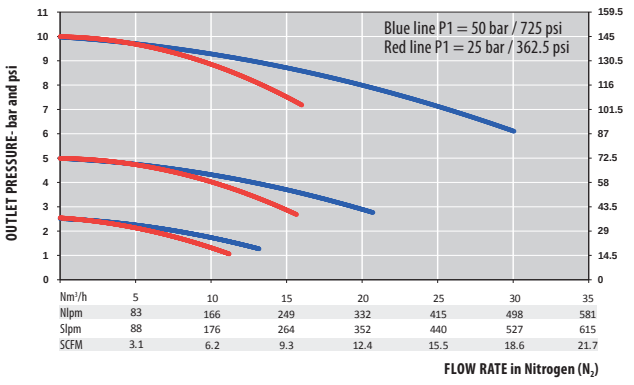
FLOW CURVE S 55-3 REGULATOR
SET: 3 bar / 43.5 psi
1,5 bar / 21.75 psi



Nm^3/h	5	10	15	20	
Nlpm	83	166	249	332	
Slpm	88	176	264	352	
SCFM	3.1	6.2	9.3	12.4	

FLOW RATE in Nitrogen (N_2)

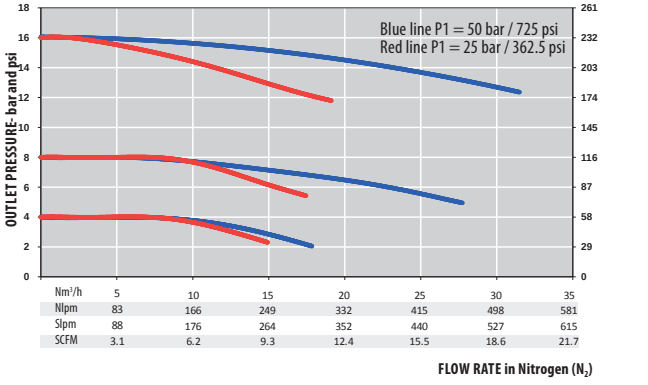
FLOW CURVE S 55-10 REGULATOR
SET: 10 bar / 145 psi
5 bar / 72.5 psi
2,5 bar / 36.25 psi



Nm^3/h	5	10	15	20	25	30	35
Nlpm	83	166	249	332	415	498	581
Slpm	88	176	264	352	440	527	615
SCFM	3.1	6.2	9.3	12.4	15.5	18.6	21.7

FLOW RATE in Nitrogen (N_2)

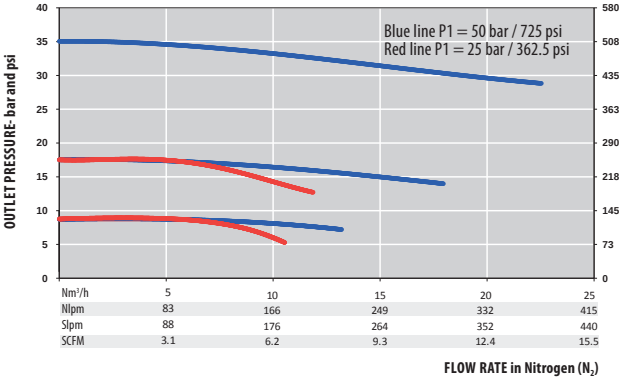
FLOW CURVE S 55-16 REGULATOR
SET: 16 bar / 232 psi
8 bar / 116 psi
4 bar / 58 psi



Nm^3/h	5	10	15	20	25	30	35
Nlpm	83	166	249	332	415	498	581
Slpm	88	176	264	352	440	527	615
SCFM	3.1	6.2	9.3	12.4	15.5	18.6	21.7

FLOW RATE in Nitrogen (N_2)

FLOW CURVE S 55-35 REGULATOR
SET: 35 bar / 507.5 psi
17,5 bar / 253.75 psi
8,75 bar / 126.88 psi



Nm^3/h	5	10	15	20	25		
Nlpm	83	166	249	332	415		
Slpm	88	176	264	352	440		
SCFM	3.1	6.2	9.3	12.4	15.5		

FLOW RATE in Nitrogen (N_2)

PRODUCT CONFIGURATOR

	Body Material			Outlet Pressure		End Connections		O-ring Material	Gauges		Mounting		Ports Configuration	
S	L		55	35		G		EPDM	1		FR1		A	
	Chrome plated brass	L		3 bar 44 psi	3	G ⅜ - G ⅜	G	EPDM - Standard	With	1	Without Fixing Ring	FR0	Standard configuration	A
	Stainless steel	I		10 bar 145 psi	10	¼ NPT - ¼ NPT	N	FPM			With Fixing Ring*	FR1	Reverse inlet/outlet	R
				16 bar 232 psi	16									
				35 bar 508 psi	35									

* FR1 not available with the 35 bar version

SERIES DC 50 | HIGH FLOW LINE REGULATOR

- Diaphragm single stage
- Balanced-Valve Technology
- Purity up to 5.0
- Inlet pressure:
  50 bar (725 psi)
- Outlet pressure:
  8/15/40 bar
  116/217/580 psi
- Acetylene version (AD - C_2H_2):
  P1=1,5 bar (21.75 psi)
  P2=0,8 bar (12 psi)

★ 1 inlet / 1 outlet
★ Rear thread for panel mounting
★ O_2 application compatible
★ High flow

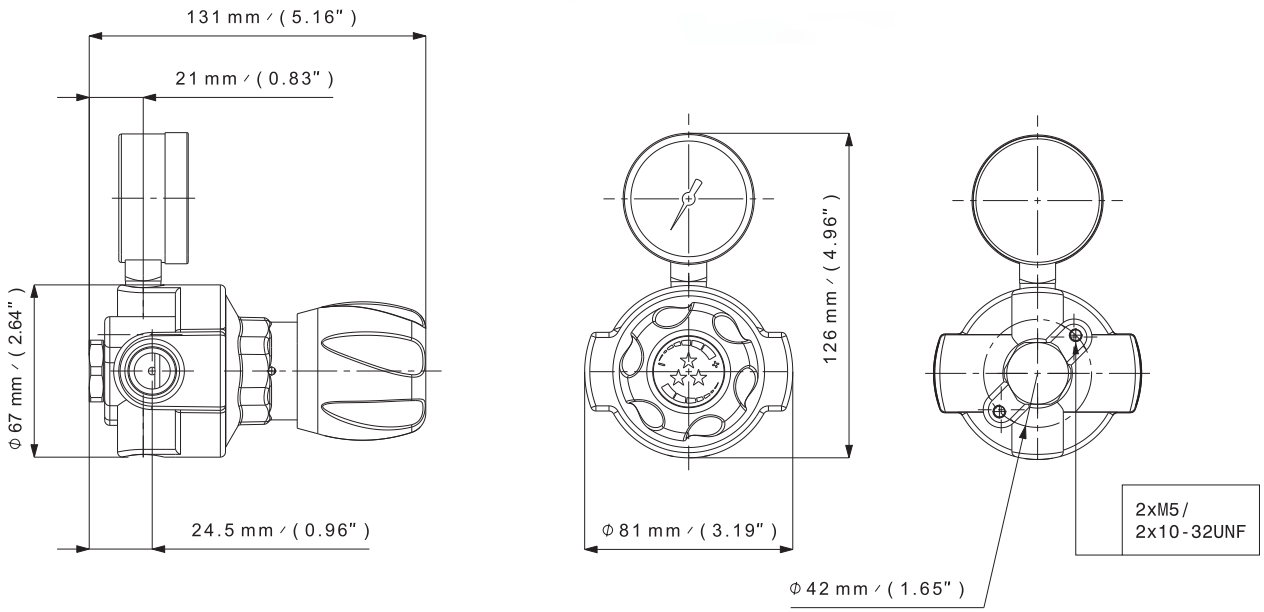
Special requirements on request

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 Nm^3/h
- For use with acetylene this product must be installed with a flash back arrestor complying with the standard EN 730 located downstream.

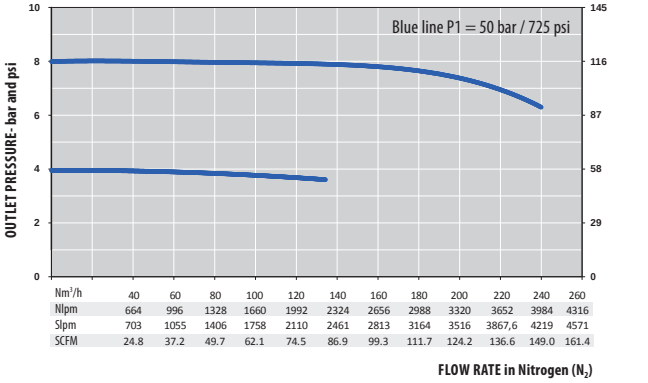


SPECIFICATIONS

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 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 (G¼ or ¼ NPT)	**Oxygen use**	OK

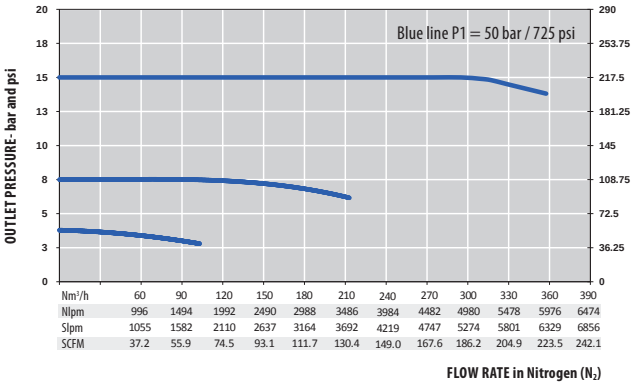
FLOW CURVES

FLOW CURVE DC 50-8 REGULATOR
SET: 8 bar / 116 psi
4 bar / 58 psi



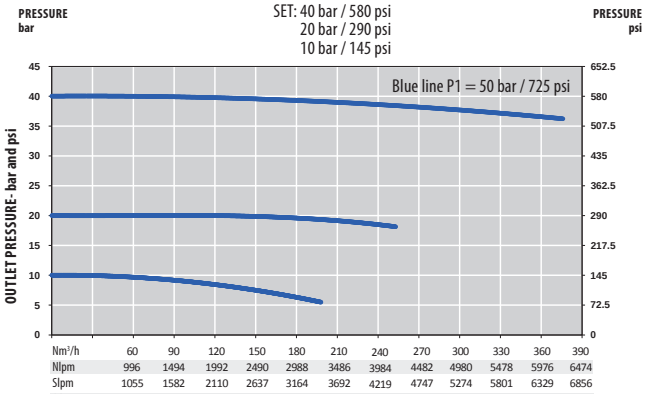
Nm³/h	40	60	80	100	120	140	160	180	200	220	240	260
Nlpm	664	996	1328	1660	1992	2324	2656	2988	3320	3652	3984	4316
Slpm	703	1055	1406	1758	2110	2461	2813	3164	3516	3867,6	4219	4571
SCFM	24.8	37.2	49.7	62.1	74.5	86.9	99.3	111.7	124.2	136.6	149.0	161.4

FLOW CURVE DC 50-15 REGULATOR
SET: 15 bar / 217.5 psi
7,5 bar / 108.75 psi
3,75 bar / 54.38 psi



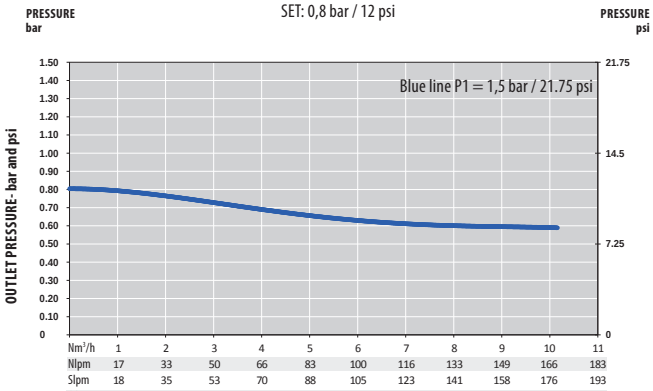
Nm³/h	60	90	120	150	180	210	240	270	300	330	360	390
Nlpm	996	1494	1992	2490	2988	3486	3984	4482	4980	5478	5976	6474
Slpm	1055	1582	2110	2637	3164	3692	4219	4747	5274	5801	6329	6856
SCFM	37.2	55.9	74.5	93.1	111.7	130.4	149.0	167.6	186.2	204.9	223.5	242.1

FLOW CURVE DC 50-40 REGULATOR
SET: 40 bar / 580 psi
20 bar / 290 psi
10 bar / 145 psi



Nm³/h	60	90	120	150	180	210	240	270	300	330	360	390
Nlpm	996	1494	1992	2490	2988	3486	3984	4482	4980	5478	5976	6474
Slpm	1055	1582	2110	2637	3164	3692	4219	4747	5274	5801	6329	6856
SCFM	37.2	55.9	74.5	93.1	111.7	130.4	149.0	167.6	186.2	204.9	223.5	242.1

FLOW CURVE DC 50-AD REGULATOR
SET: 0,8 bar / 12 psi



Nm³/h	1	2	3	4	5	6	7	8	9	10	11
Nlpm	17	33	50	66	83	100	116	133	149	166	183
Slpm	18	35	53	70	88	105	123	141	158	176	193
SCFM	0.6	1.2	1.9	2.5	3.1	3.7	4.3	5.0	5.6	6.2	6.3

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	With	1
			15 bar 217 psi	15	½ NPT - ½ NPT	N	FPM	Raw brass	LB		
			40 bar 580 psi	40							
			Acetylene version 0,8 bar (12 psi)	AD							

SERIES C 790 | LINESTAR MODULAR POINT OF USE

- Diaphragm single stage Purity up to 6.0
- Inlet pressure: 50 bar (725 psi)
- Outlet pressure: 1,5/5,5/10 bar (21.75/79.75/145 psi)
- Acetylene version (AD - C_2H_2): P2=1,5 bar (21,75 psi)

★ Accurate pressure delivery
★ Compact design
★ 1 inlet / 1 outlet
★ Rear Inlet for panel mounting: EASY FIX SYSTEM
★ Integrated shutoff valve: QUICK VALVE
★ O_2 applications compatible (Brass only)

Additionnal accessories available

See catalogue POU-EN-0216

MAIN ADVANTAGES:

Simplified configuration
- A complete range to cover any types of laboratory configuration
- Each model can be equipped with an optional flow-control valve

Simplified Integration
- Pressure gauge integrated into the pressure regulator
- Compact design, enabling higher density set-ups, up to one POU every 8cm horizontally

High Technology
- Fully compatible with 6.0 gas purity : diaphragm technology on pressure regulator and shut-off valve
- Optimized design to reduce dead-space volumes and purging, for less risk of gas contamination
- Improved chemical compatibility : acetone-resistant pressure regulator window, acids & alkaline resistant covers to increase durability with PTFE/PCTFE joints, HDPE plastics and Hastelloy® diaphragm

Cleanliness & quality :
- all gas-wetted components are cleaned according to our Rotarex 3-STAR quality process
- Each POU is 100% tested with Helium

INSTALLATION ADVANTAGES:

- **The O-ring joints:** On inlet and outlet hold tightly in the fittings and won't fall down during installation, for a cleaner and quicker installation
- **EASY-FIX connector :** all Linestar POU are equipped with Easy-fix pre-positioning system to prevent the rotation of the POU during installation and tightening
- **Filter :** the 60µm mesh filter in the inlet prevents contamination of the regulator by particles during installation

"IN USE" ADVANTAGES:

Look & Feel :
- New redesigned ergonomic pressure regulator and flow-control valves
- 360° visibility of the ¼ turn shut-off valve on top of the POU, for easy checking of the valve opening from far away
- High contrast colors to clearly differentiate the controls from the fixed parts
- Stickers with gas indications enables optimized information transmission

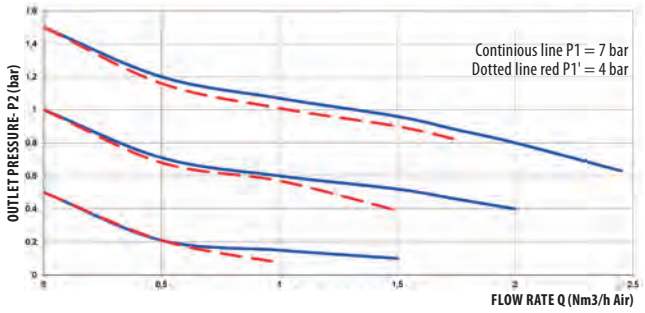
Durability & resistance to chemicals :
- HDPE strong plastic covers, resistant to shocks, scratches, chemicals and solvents
- Acetone-resistant pressure gauge window to prevent blurring over time

SPECIFICATIONS

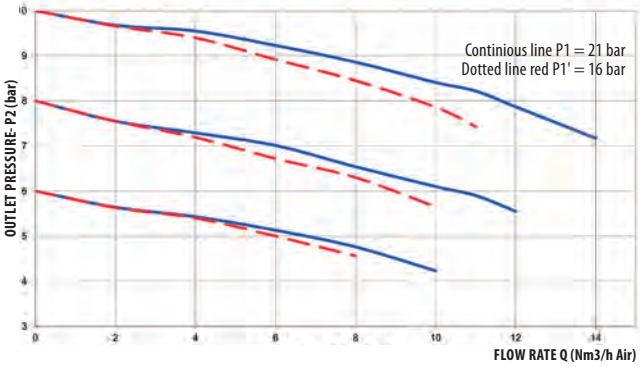
Female ports	Inlet : ¼"NPT Outlet : G¼ / ¼"NPT w/adaptor
Seat seal	PCTFE
O-ring	EPDM (brass) FPM (316L)
Diaphragm (valve)	HASTELLOY ®
Plastic parts body	PP
Weight	900g (Brass or 316L)
Leak rate	10^{-8} mbar l/s He
Temperature range	-20°C to +60°C -4°F to +140°F
Inlet pressure	50bar (725 psi) C_2H_2: 20 bar (290 psi)
Outlet pressure	1,5 / 5,5 / 10 bar 21.75 / 79.75 /145 psi C_2H_2: 1,5 bar (21.75 psi)
Nominal Flow	1,2 / 2 / 9 m^3/h Air
Oxygen use	Inlet pressure ≤ 30 bar (max for brass only)

FLOW CURVES

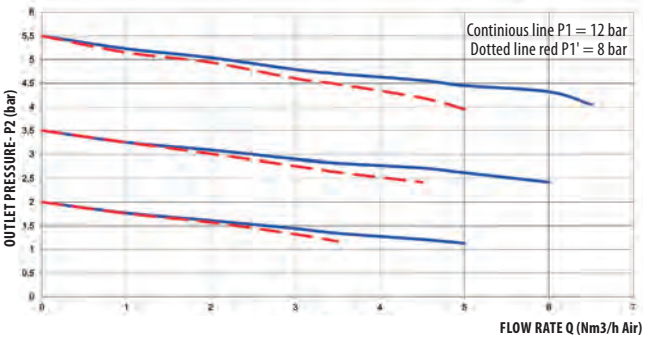
POU BRASS - LINE PRESS.CGA E-4
SET: P2 up to 1.5 bar



POU BRASS - LINE PRESS.CGA E-4
SET: P2 up to 10 bar



POU BRASS - LINE PRESS.CGA E-4
SET: P2 up to 5.5 bar



PRODUCT CONFIGURATOR

C792 PANEL VERSION

See page 62

C793 WALL VERSION

See page 62

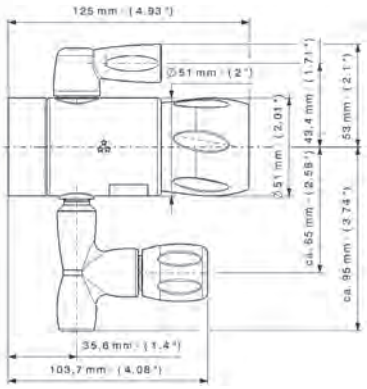
C794 CEILING OR TABLE VERSION

See page 63

C792 | LINESTAR PANEL MOUNTED VERSION

KEY FEATURES

- With the EASY FIX Panel kit, you can install the Linestar into panels from 2 mm to 8 mm thickness.
- The EASY FIX CONNECTOR will maintain the Linestar on the right position during the installation. You do not need any more to adjust the regulator position after assembly
- The C792 will be supplied with a plastic cover in order to have a smooth integration on the panel.
- The EASY FIX CONNECTOR exists in BRASS and 316L and can be provided with a pipe at the inlet (Cooper for brass version and 316L for 316L version)



PRODUCT CONFIGURATOR

Version name		Material		Outlet Pressure		Needle valve		Inlet connection		Outlet connection	
C792		B		1,5		1		N		N	
Panel product version	C792	Brass	B	1,5	1,5	With needle valve	1	¼ NPT	N	G¼	G1
		Stainless Steel (pending)	SS	5,5	5,5	No needle valve	0	Brass tube copper 8x1 mm tube	BPC	¼ NPT	N
				10	10					G⅜ - only without needle valve	G3
				1,5 C_2H_2	AD					¼ NPT Adaptor + Brass compression tube fitting 6 mm straight	B6
										¼ NPT Adaptor + Brass compression tube fitting 8 mm straight	B8
										G¼ Adaptor + Hose barb 6 mm	BH6
										Other on demand	

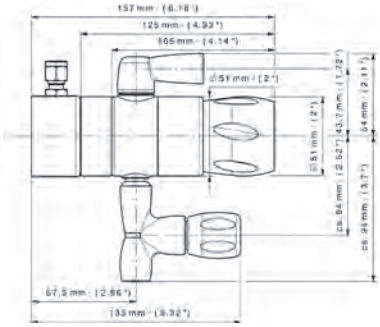
GAS TYPES PRECISION*								
AR								
AR	HE	O_2	C_2H_2	N_2	CA	CO_2	H_2	RTX

*Always order together: 1 regulator + Gas types precision for stickers

C793 | LINESTAR WALL MOUNTED VERSION

KEY FEATURES

- The Linestar in combination with the EASY FIX Wall kit is designed for applications with surface pipework.
- The Set contains a connection (same as for the Panel version) and a plastic bracket, with all needed accessories (washer, screw…). Here also we have equipped our product with our EASY FIX CONNECTOR so that you do not loose time during the installation.
- You can also order the WMV kit with the required inlet fitting.



PRODUCT CONFIGURATOR

Version name		Material		Outlet Pressure		Needle valve		Inlet connection		Outlet connection	
C793		B		1,5		1		N		N	
Wall product version	C793	Brass	B	1,5	1,5	With needle valve	1	¼ NPT	N	G¼	G1
		Stainless Steel (pending)	SS	5,5	5,5	No needle valve	0			¼ NPT	N
				10	10					G⅜ - only without needle valve	G3
				1,5 C_2H_2	AD					¼ NPT Adaptor + Brass compression tube fitting 6 mm straight	B6
										¼ NPT Adaptor + Brass compression tube fitting 8 mm straight	B8
										G¼ Adaptor + Hose barb 6 mm	BH6
										Other on demand	

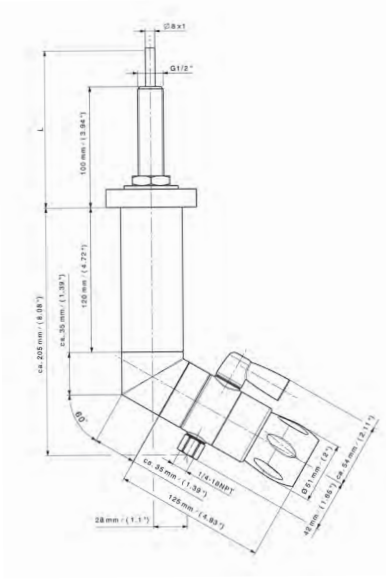
GAS TYPES PRECISION*								
AR								
AR	HE	O_2	C_2H_2	N_2	CA	CO_2	H_2	RTX

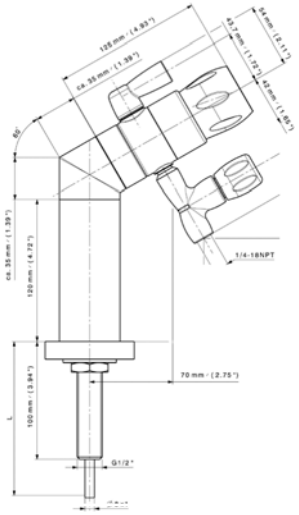
*Always order together: 1 regulator + Gas types precision for stickers

C794 | LINESTAR CEILING OR TABLE MOUNTED VERSION

KEY FEATURES

- The Linestar in combination with the EASY FIX Ceiling kit is designed for overhead installation.
- The Set contains a connection (same as for the Panel version) and a plastic bracket, with all needed accessories (washer, screw…). Here also we have equipped our product with our EASY FIX CONNECTOR so that you do not loose time during the installation.
- You can also order the Ceiling version with the needed fitting at the inlet.
- Optional short ceiling version





PRODUCT CONFIGURATOR

Version name		Material		Outlet Pressure		Needle valve		Configuration		Outlet connection	
C794		B		1,5		1		S90		N	
Ceiling / table product version	C794	Brass	B	1,5	1,5	With needle valve	1	Short 90°	S90	G¼	G1
		Stainless Steel (pending)	SS	5,5	5,5	No needle valve	0	Short 120°	S120	¼ NPT	N
		+		10	10			Long 120°	L120	G⅜ - only without needle valve	G3
				1,5 C_2H_2	AD					¼ NPT Adaptor + Brass compression tube fitting 6 mm straight	B6
										¼ NPT Adaptor + Brass compression tube fitting 8 mm straight	B8
										G¼ Adaptor + Hose barb 6 mm	BH6
										Other on demand	

GAS TYPES PRECISION*								
AR								
AR	HE	O_2	C_2H_2	N_2	CA	CO_2	H_2	RTX

*Always order together: 1 regulator + Gas types precision for stickers

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 - C_2H_2):
  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
★ O_2 applications compatible (see technical data)

Special requirements on request

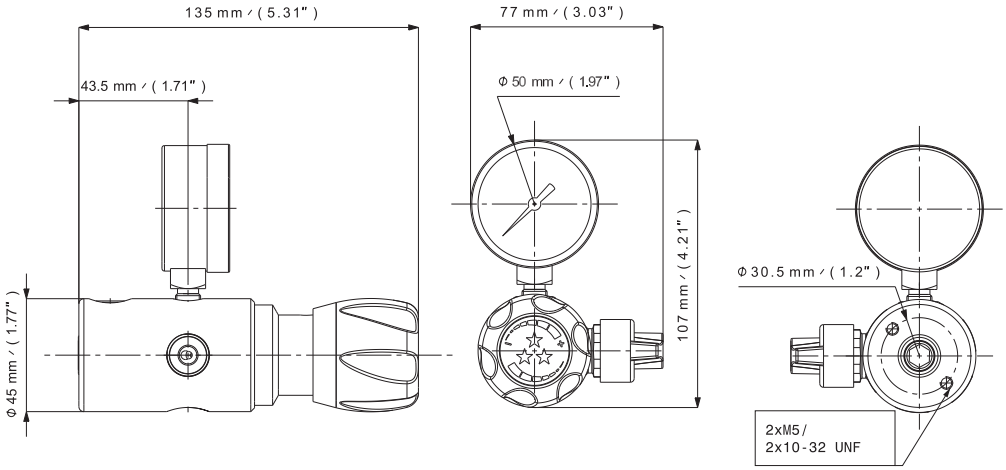
Acetylene version

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.

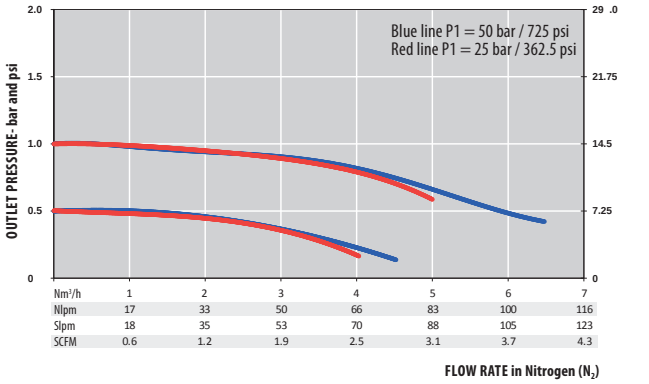


SPECIFICATIONS

Female ports	G ⅜ (inlet/outlet) or ¼ 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 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)				

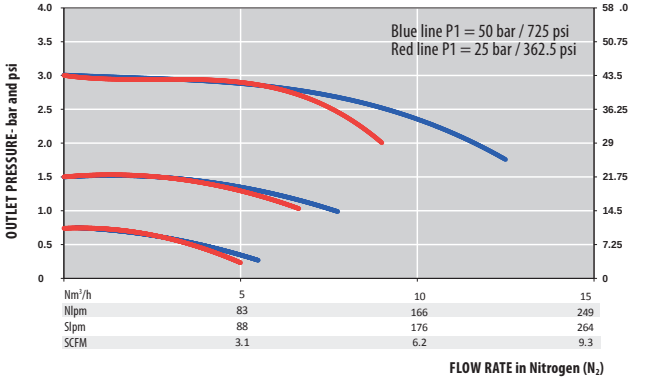
FLOW CURVES

FLOW CURVE S 21-1 REGULATOR
SET: 1 bar / 14.5 psi
0,5 bar / 7.25 psi



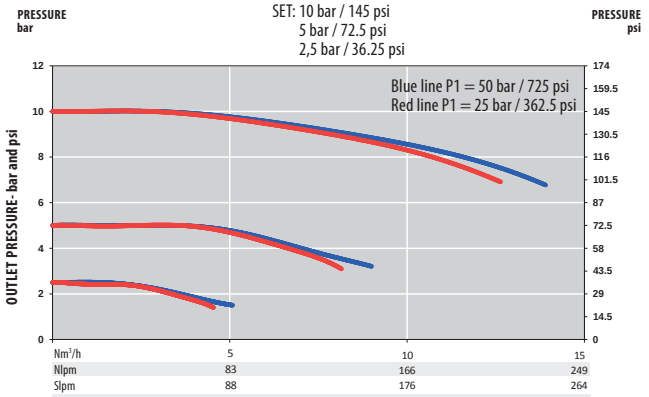
Nm^3/h	1	2	3	4	5	6	7
Nlpm	17	33	50	66	83	100	116
Slpm	18	35	53	70	88	105	123
SCFM	0.6	1.2	1.9	2.5	3.1	3.7	4.3

FLOW CURVE S 21-3 REGULATOR
SET: 3 bar / 43.5 psi
1,5 bar / 21.75 psi
0,75 bar / 10.88 psi



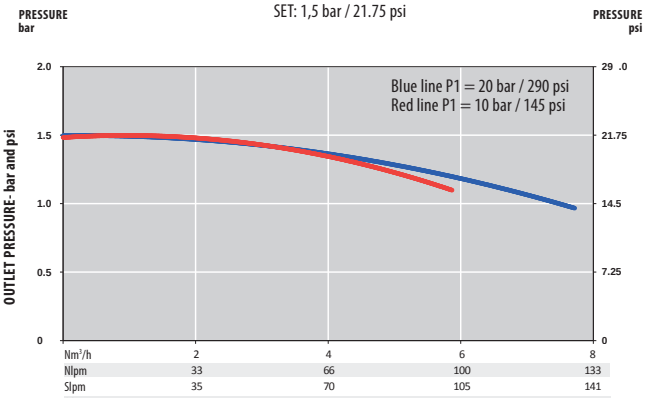
Nm^3/h	5	10	15
Nlpm	83	166	249
Slpm	88	176	264
SCFM	3.1	6.2	9.3

FLOW CURVE S 21-10 REGULATOR
SET: 10 bar / 145 psi
5 bar / 72.5 psi
2,5 bar / 36.25 psi



Nm^3/h	5	10	15
Nlpm	83	166	249
Slpm	88	176	264
SCFM	3.1	6.2	9.3

FLOW CURVE S 21-AD REGULATOR
SET: 1,5 bar / 21.75 psi



Nm^3/h	2	4	6	8
Nlpm	33	66	100	133
Slpm	35	70	105	141
SCFM	1.2	2.5	3.7	5.0

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 ⅜ - G ⅜	G	EPDM - standard	Without	0	Without plate	STD
	Stainless steel	I		3 bar 44 psi	3	¼ NPT- ¼ NPT	N	FPM	With	1	With metal plate	M
				10 bar 145 psi	10							
				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 - C_2H_2):
  P1 = 20 bar (290 psi)
  P2 = 1,5 bar (21.75 psi)

★ Accurate pressure delivery
★ Compact design
★ 1 inlet / 2 outlets
★ Modular concept
★ O_2 applications compatible (see technical data)

Special requirements on request

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

Acetylene version

APPLICATIONS

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

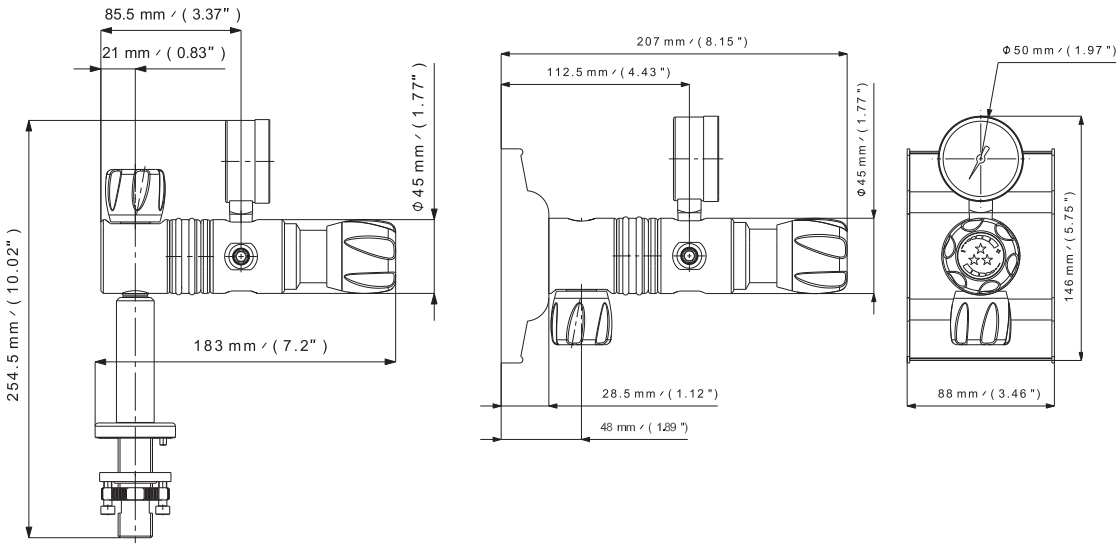
KEY FEATURES

- 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/ ¼V valve

EMB version w/ MV valve

COL version w/ MV valve



SPECIFICATIONS

Female ports	F: G ¼ (inlet-COL version) G ⅜ or ¼ NPT (inlet) G ⅜ or ¼ NPT (outlet)
Seat seal	EPDM
O-ring	EPDM - Standard FPM
Diaphragm	Hastelloy®
Bellow	Bronze or AISI 316L (SS version)

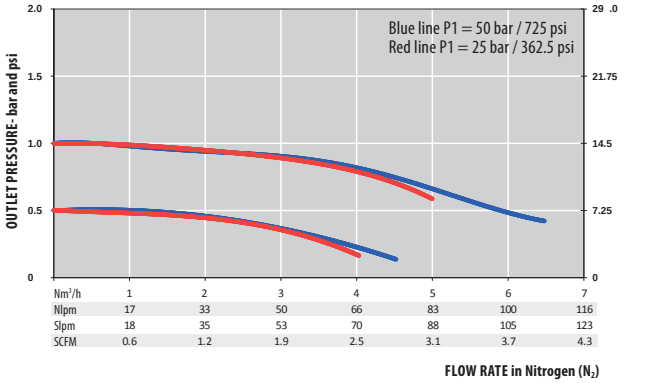
Weight	± 1,5 kg ± 3.3 lbs
Leak rate	10^{-8} mbar ℓ/s He
Temperature range	-20°C to + 60°C -4°F to + 140°F
Gauges	Low pressure (M10 x 1 or ¼ NPT)

Inlet pressure	50 bar (725 psi) AD: 20 bar (290 psi)
Outlet pressure	1/3/10 bar 14.5/44/145 AD: 1,5 bar (21.75 psi)
Nominal Flow	2/2,5/3,5 Nm^3/h (N_2) AD: 1 Nm^3/h
Oxygen use	inlet pressure ≤ 30 bar max. for brass and stainless steel

FLOW CURVES

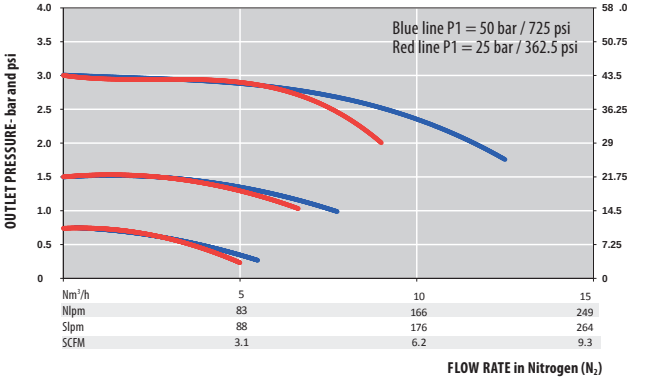
FLOW CURVE LABLINE S 22-1 REGULATOR

SET: 1 bar / 14.5 psi
0,5 bar / 7.25 psi



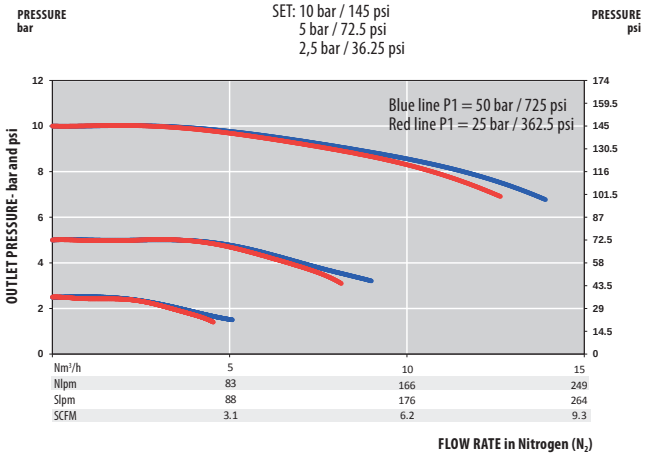
FLOW CURVE LABLINE S 22-3 REGULATOR

SET: 3 bar / 43.5 psi
1,5 bar / 21.75 psi
0,75 bar / 10.88 psi



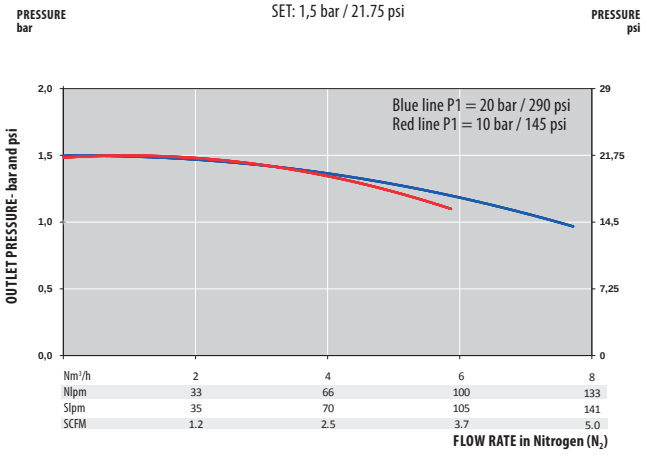
FLOW CURVE LABLINE S 22-10 REGULATOR

SET: 10 bar / 145 psi
5 bar / 72.5 psi
2,5 bar / 36.25 psi



FLOW CURVE LABLINE S 22-AD REGULATOR

SET: 1,5 bar / 21.75 psi



PRODUCT CONFIGURATOR

	Body Material			Version		Outlet Pressure		End Connection		O-ring Material	Gauges		Valve	
S	L		S22	EMB		10		G		EPDM	1		¼V	
	Chrome plated brass	L		With Metal Plate	M	1 bar 14.5 psi	1	G ⅜ - Female (outlet)	G	EPDM - standard	With	1	¼ turn valve	¼V
	Stainless steel	I		With Aluminum stand	EMB	3 bar 44 psi	3	¼ NPT (outlet)	N	FPM			Multi-turn valve	MV
				With pillar*	COL	10 bar 145 psi	10	Note: inlet G ¼ with COL version						
						Acetylene version 1,5 bar 21.75 psi	AD							

*only with multi-turn valve

C795 | LINESTAR POINT OF USE INTEGRATED

- LINESTAR Integrated version is designed for the best and most compact integration into the lab furniture and fume hoods panels.
- This compact version enables laboratory configurations with many pure gases under the same fume hood.

★ Accurate pressure delivery
★ Compact design
★ 1 inlet / 1 outlet
★ Integrated shutoff valve: QUICK VALVE
★ O_2 applications compatible (Brass only)

Additionnal accessories available

See catalogue POU-EN-0216

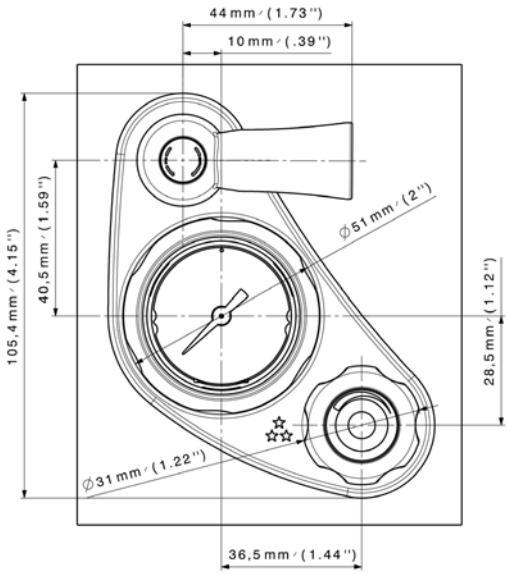
Available with fixation plate

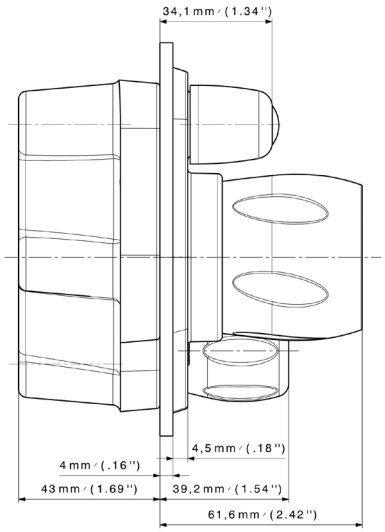
MAIN ADVANTAGES:

Simplified Integration
- Pressure gauge integrated into the pressure regulator
- Compact design, enabling higher density set-ups, up to one POU every 8cm horizontally

High Technology
- Fully compatible with 6.0 gas purity : diaphragm technology on pressure regulator and shut-off valve
- Optimized design to reduce dead-space volumes and purging, for less risk of gas contamination
- Improved chemical compatibility : acetone-resistant pressure regulator window, acids & alkaline resistant covers to increase durability with PTFE/PCTFE joints, HDPE plastics and Hastelloy® diaphragm

Cleanliness & quality :
- all gas-wetted components are cleaned according to our Rotarex 3-STAR quality process
- Each POU is 100% tested with Helium





INSTALLATION ADVANTAGES:

- **The O-ring joints:** On inlet and outlet hold tightly in the fittings and won't fall down during installation, for a cleaner and quicker installation
- **Filter :** the 60µm mesh filter in the inlet prevents contamination of the regulator by particles during installation

"IN USE" ADVANTAGES:

Look & Feel :
- New redesigned ergonomic pressure regulator and flow-control valves
- 360° visibility of the ¼ turn shut-off valve on top of the POU, for easy checking of the valve opening from far away
- High contrast colors to clearly differentiate the controls from the fixed parts
- Stickers with gas indications enables optimized information transmission

Durability & resistance to chemicals :
- HDPE strong plastic covers, resistant to shocks, scratches, chemicals and solvents
- Acetone-resistant pressure gauge window to prevent blurring over time

SPECIFICATIONS

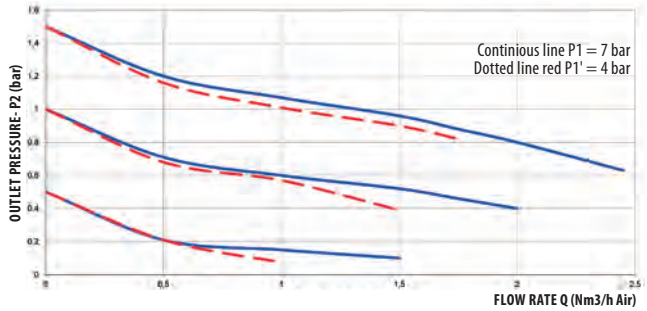
Female ports	Inlet : ¼"NPT Outlet : G¼ / ¼"NPT w/adaptor
Seat seal	PCTFE
O-ring	EPDM (brass) FPM (316L)
Diaphragm (valve)	HASTELLOY ®
Plastic parts body	PP
Weight	900g (Brass or 316L)
Leak rate	10^{-8} mbar l/s He
Temperature range	-20°C to +60°C -4°F to +140°F
Inlet pressure	50bar (725 psi) C_2H_2: 20 bar (290 psi)
Outlet pressure	1,5 / 5,5 / 10 bar 21.75 / 79.75 /145 psi C_2H_2: 1,5 bar (21.75 psi)
Nominal Flow	1,2 / 2 / 9 m^3/h Air
Oxygen use	Inlet pressure ≤ 30 bar (max for brass only)

EASY INSTALLATION:

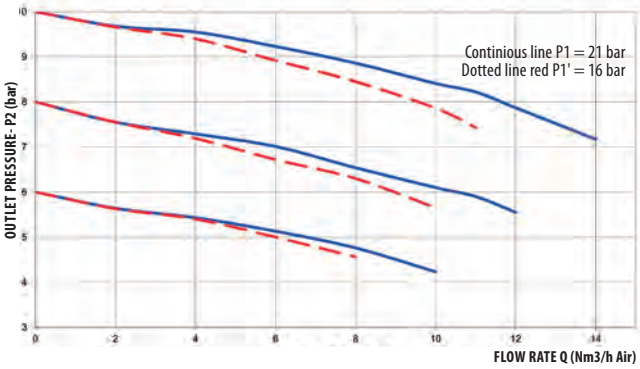
1. **SCREW THE LINESTAR CORE BEHIND THE FRONT PANEL**
2. **ADD THE COVER PLATE AND HANDWHEELS ON FRONT SIDE**
3. **ADD THE 3 LABELS TO FINALISE**

FLOW CURVES

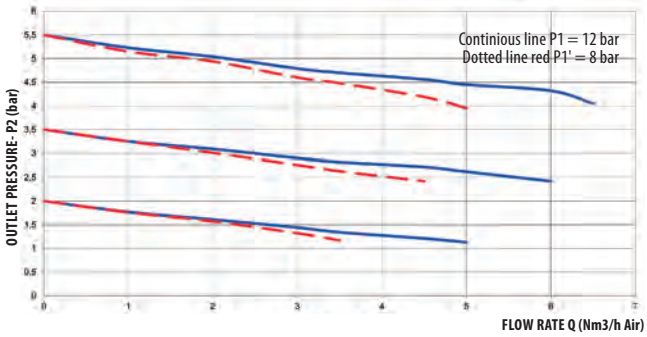
POU BRASS - LINE PRESS.CGA E-4
SET: P2 up to 1.5 bar



POU BRASS - LINE PRESS.CGA E-4
SET: P2 up to 10 bar



POU BRASS - LINE PRESS.CGA E-4
SET: P2 up to 5.5 bar



PRODUCT CONFIGURATOR

Version name		Material		Outlet Pressure		Needle valve		Fixation plate		Inlet & outlet connection	
C795		B		1,5		1		1		G	
Integrated valve version	C795	Brass	B	1,5	1,5	With needle valve	1	With fixation plate	1	G¼"	G
		Stainless Steel (pending)	SS	5,5	5,5			Without fixation plate	0	¼ NPT	N
				10	10						

+

GAS TYPES PRECISION*								
AR								
AR	HE	O_2	C_2H_2	N_2	CA	CO_2	H_2	RTX

*Always order together: 1 regulator + Gas types precision for stickers

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
★ O_2 application compatible

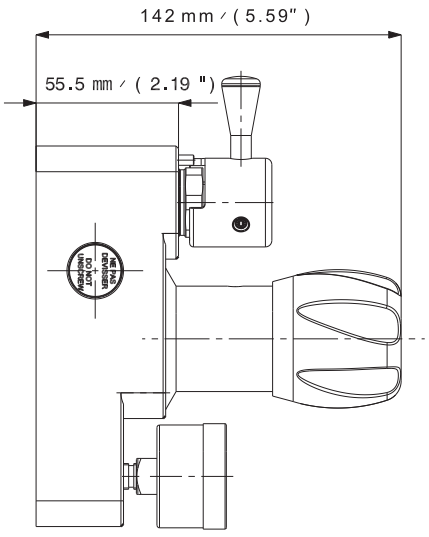
Special requirements on request

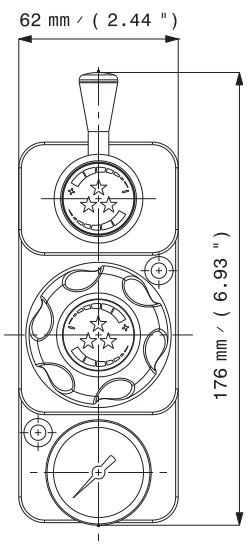
APPLICATIONS

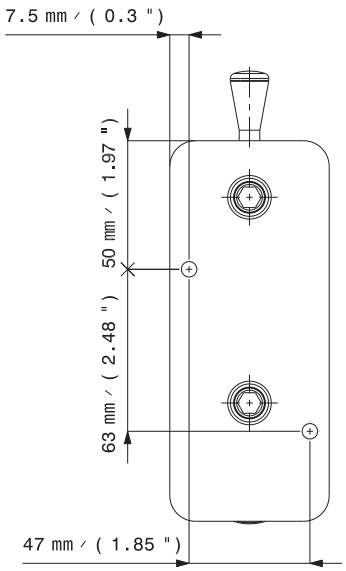
- A terminal point of use for specialty gas applications in a laboratory or in a workshop.

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.



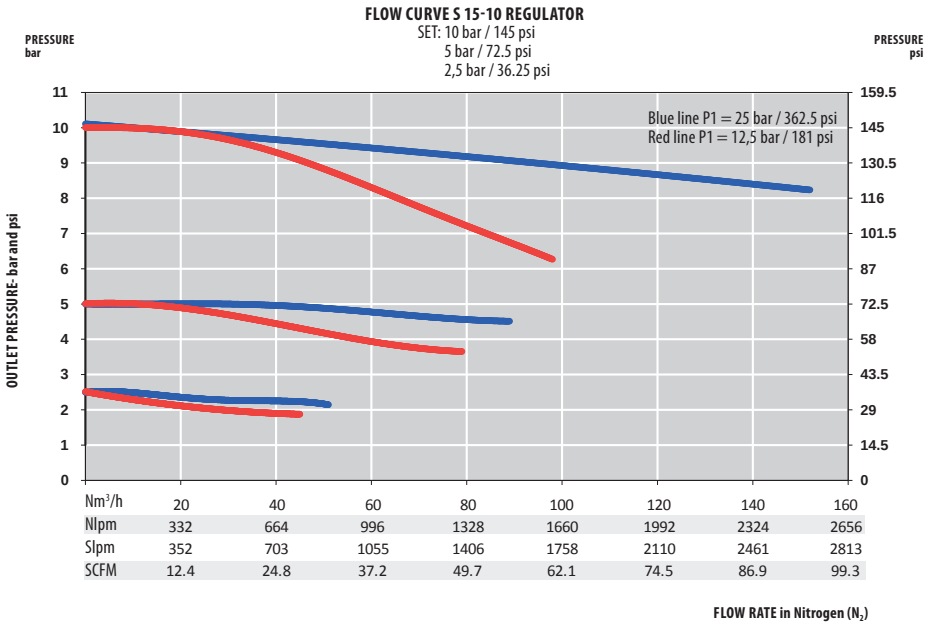




SPECIFICATIONS

Female ports	G ⅜ (inlet/outlet) or ¼ 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 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		G		EPDM	A	
		Aluminum	A		10 bar 145 psi	10	G ⅜ - G ⅜	G	EPDM - standard	Standard configuration	A
		Stainless steel	I				¼ NPT - ¼ NPT	N	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 - C_2H_2):
  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
★ O_2 application compatible (see technical data)

Special requirements on request

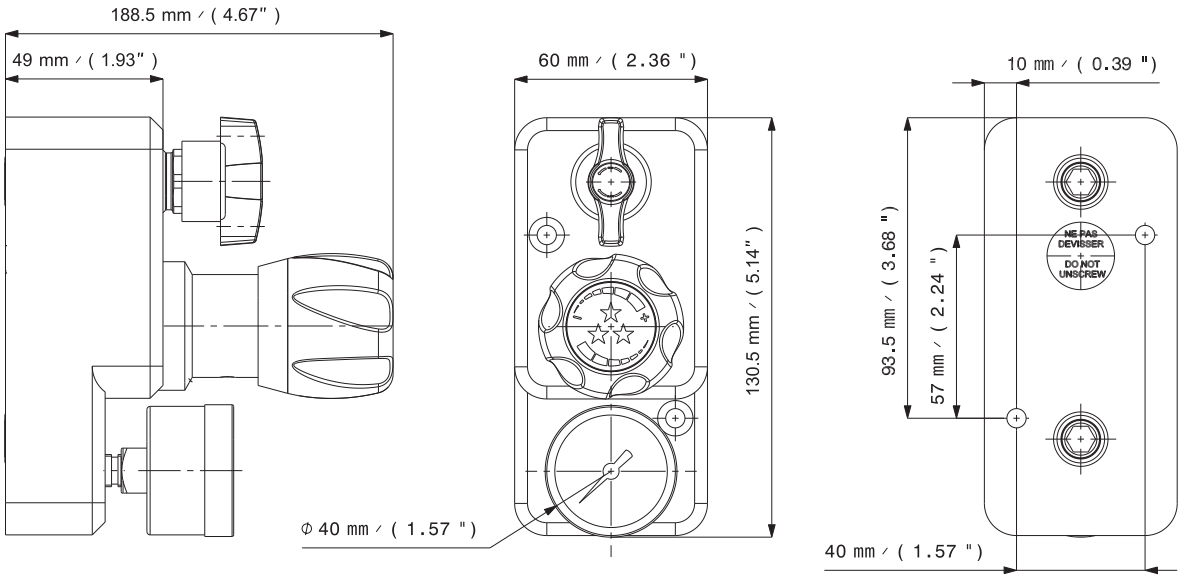
Acetylene version

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

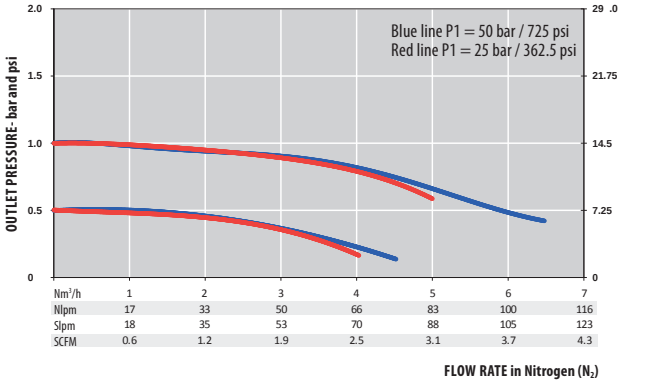


SPECIFICATIONS

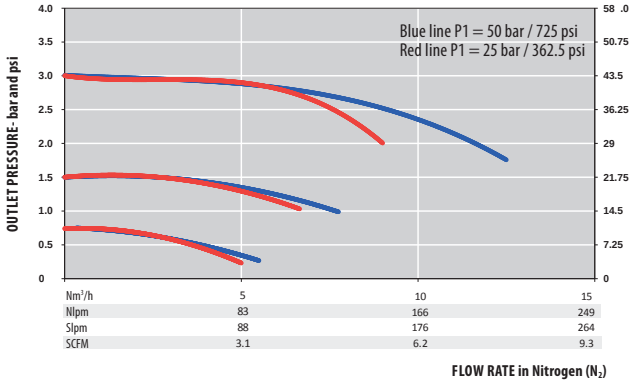
Female ports	G ⅜ (inlet/outlet) or ¼ NPT (inlet/outlet)	**Weight**	Aluminum: ± 1,25 kg (± 2.75 lbs) Stainless steel: ± 2,75 (± 6.06 lbs)	**Inlet pressure**	50 bar (725 psi) AD: 20 bar (290 psi)
Seat seal	EPDM	**Leak rate**	10^{-8} mbar ℓ/s He	**Outlet pressure**	1/3/10 bar 14.5/44/145 psi AD: 1,5 bar (21.75 psi)
O-ring	EPDM - Standard 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

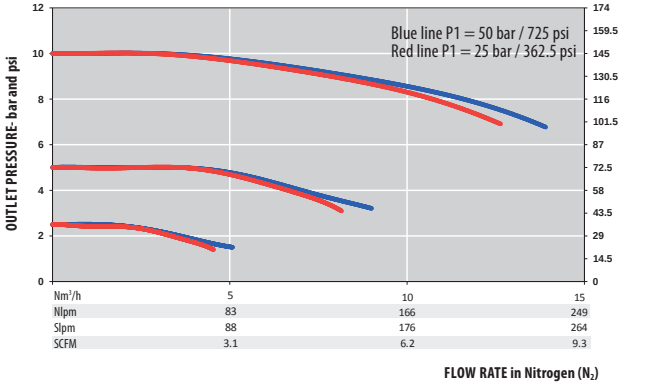
FLOW CURVE S 20-1 REGULATOR
SET: 1 bar / 14.5 psi
0,5 bar / 7.25 psi



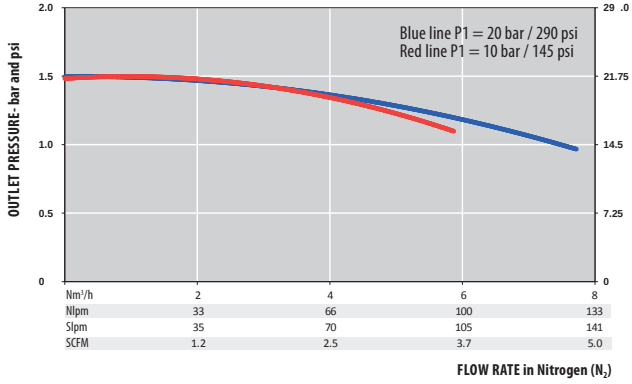
FLOW CURVE S 20-3 REGULATOR
SET: 3 bar / 43.5 psi
1,5 bar / 21.75 psi
0,75 bar / 10.88 psi



FLOW CURVE S 20-10 REGULATOR
SET: 10 bar / 145 psi
5 bar / 72.5 psi
2,5 bar / 36.25 psi



FLOW CURVE MONO S 20-AD REGULATOR
SET: 1,5 bar / 21.75 psi



PRODUCT CONFIGURATOR

		Body Material			Outlet Pressure		End Connections		O-ring Material	Configuration	
M	S	A		20	10		G		EPDM	A	
		Aluminum	A		1 bar 14.5 psi	1	G ⅜ - G ⅜	G	EPDM - standard	Standard configuration	A
		Stainless steel	I		3 bar 44 psi	3	¼ NPT - ¼ NPT	N	FPM		
					10 bar 145 psi	10					
					Acetylene version 1,5 bar (21.75 psi)	AD					

*Inlet Down - outlet Top

SERIES S 75 | CONSTANT FLOW REGULATOR

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

★ Extremely accurate flow delivery
★ Compact design
★ 1 inlet / 1 outlet
★ O_2 application compatible (brass only)

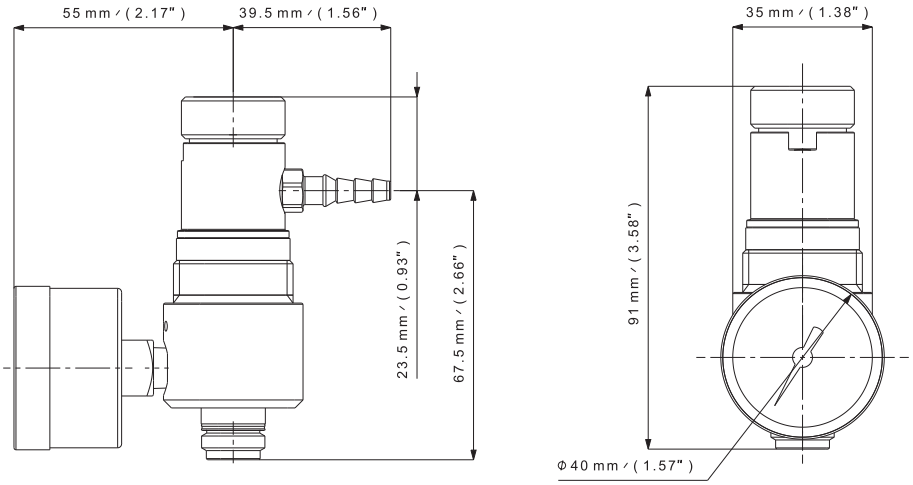
Special requirements on request

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
O-ring	FPM - Standard EPDM	**Temperature range**	-20°C to +60°C -4°F to +140°F	**Nominal Flow**	Preset from 0,3 to 15 lpm
Piston	Brass (brass version) AISI 316L (SS version)	**Gauges**	High pressure (⅛ NPT)	**Oxygen use**	Brass only

NOMINAL FLOW SETTINGS (lpm)

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

PRODUCT CONFIGURATOR

	Body Material			Outlet Pressure			Inlet Connection			Outlet Connection			Flow Selector			O-ring Material		Gauge	
S	L		75	3.5			C10			HB			B05			FPM		2	
	Nickel plated brass	L		3.5 bar 50 psi - standard	3.5		⅝" x 18 UNF	C10		Hose barb (standard)	HB		3 lpm	B03		FPM - standard		With 315 bar	2
	Stainless steel	I					¼ NPT	N		6 mm tube fitting	DB6		5 lpm - standard	B05		EPDM			
													15 lpm	B15					

SERIES S 70 | CALIBRATION GAS REGULATORS

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

★ Extreme accurate flow delivery
★ Compact design
★ 1 inlet / 1 outlet
★ O_2 application compatible

Special requirements on request

APPLICATIONS

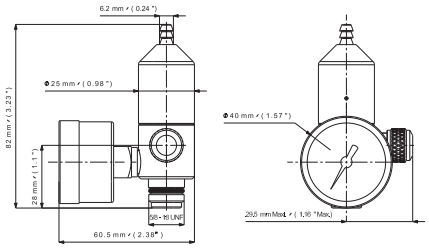
- Designed for calibration applications where predetermined pressure and flow are required, and for portable cylinder use.

KEY FEATURES

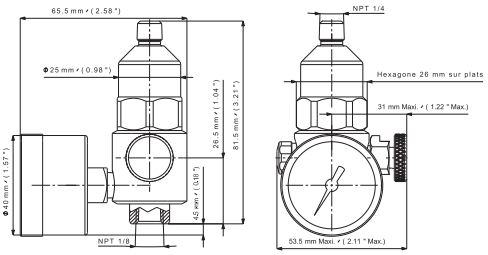
- This piston regulator has 1 inlet/1 outlet.
- Exist as single (S 70)
- Compact, light weight design, ideal for portability.
- Hand tightened assembly to cylinder is excellent for field applications.
- Actuation with control knob or push button.
- Please indicate, on any order, the maximum inlet pressure,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

S 70 single stage

CK - CONTROL KNOB



PB - PUSH BUTTON



SPECIFICATIONS

Female ports	Inlet: C10 or ⅛ NPT Outlet: Hose barb or ⅛ NPT
Seat seal	PCTFE
O-ring	FPM - Standard EPDM
Piston	Brass (brass version) AISI 303 (SS version)
Actuation	Control knob or Push button

Weight	± 0,31 kg ± 0.83 lbs
Leak rate	1.10^{-4} mbar ℓ/s He
Temperature range	-20°C to + 60°C -4°F to + 140°F
Gauges	High pressure ⅛ NPT

Inlet pressure	200 bar 2900 psi
Outlet pressure	4,13 bar (60 psi) - standard 2,06 bar (30 psi) - option
Nominal Flow	preset from 0,25 to 7 lpm
Oxygen use	OK for brass and stainless steel

PRODUCT CONFIGURATOR

	Body Material			Outlet Pressure		Inlet Connection		Outlet Connection		Actuation		O-ring Material	Gauge	
S	L		70	60		C10		HB		CK		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	With 1000 psi	1
	Stainless steel	I		2,06 bar (30 psi)	30	⅛ NPT - Female	N	⅛ NPT - Female	N1	Push Buton	PB	EPDM	With 3000 psi	2
								⅛ NPT - Male	N2				With 4000 psi	3
													With 315 bar	4

NOTES

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
★ O_2 application compatible, up to 200 bar inlet pressure for stainless steel version
★ Inlet/outlet pressure gauges
★ 1 relief valve

Special requirements on request

To be connected with cylinder connectors

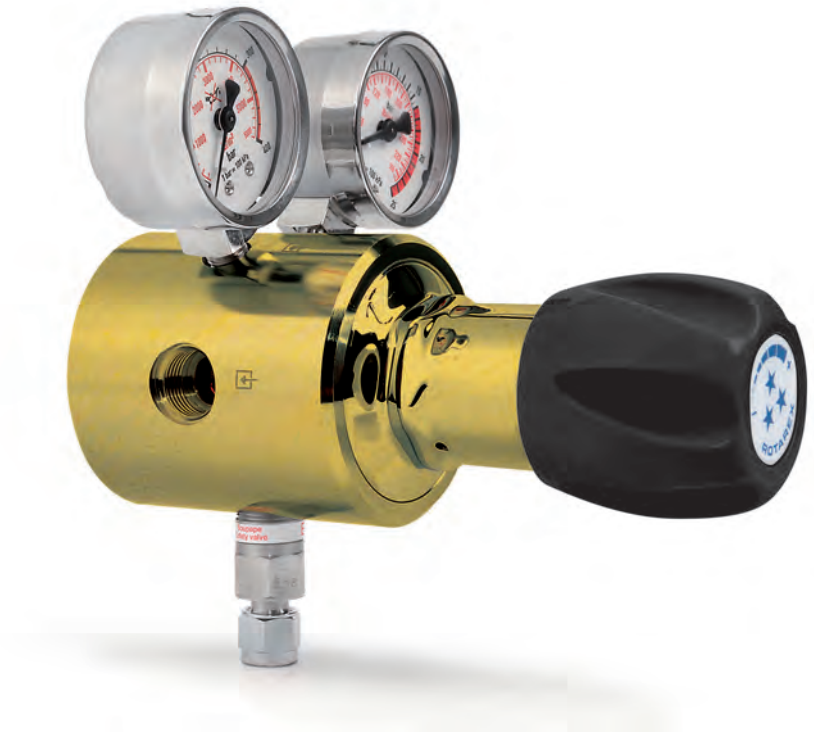
Refer to page 90

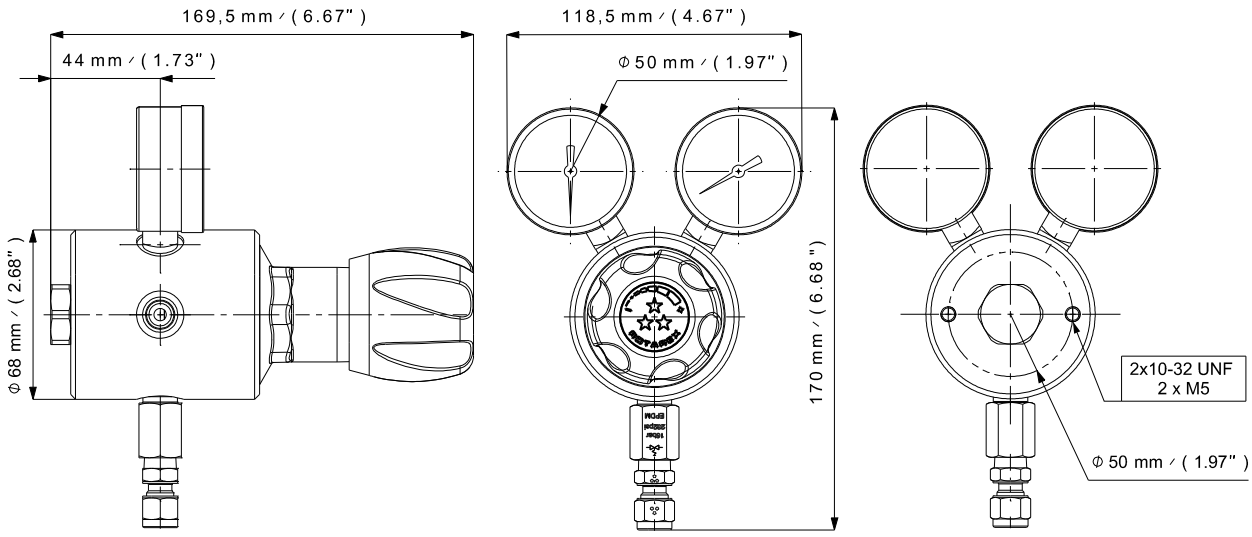
APPLICATIONS

- 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.





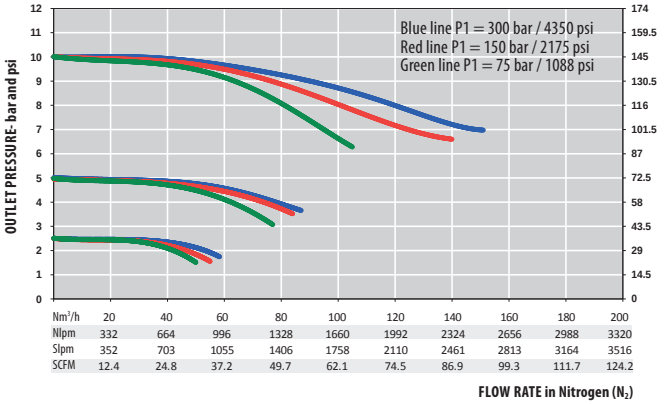
SPECIFICATIONS

Female ports	16 x 1.336 (inlet) - G 3/8 (outlet) or ¼ 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 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 ¼ NPT)	**Oxygen use**	Brass version: OK Stainless steel version: inlet pressure ≤ 200 bar

FLOW CURVES

FLOW CURVE S 800-10 REGULATOR

SET: 10 bar / 145 psi
5 bar / 72.5 psi
2,5 bar / 36.35 psi

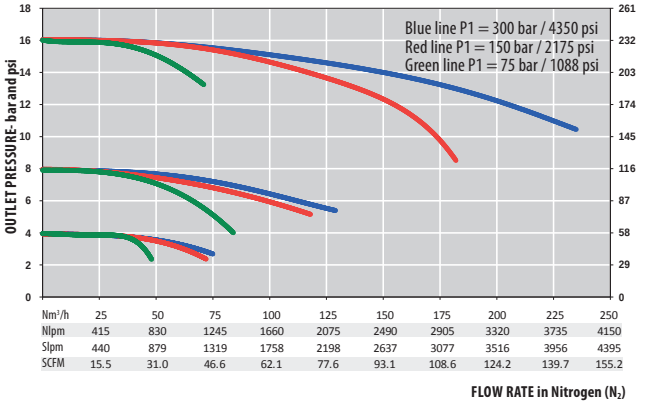


Nm^3/h	20	40	60	80	100	120	140	160	180	200
Nlpm	332	664	996	1328	1660	1992	2324	2656	2988	3320
Slpm	352	703	1055	1406	1758	2110	2461	2813	3164	3516
SCFM	12.4	24.8	37.2	49.7	62.1	74.5	86.9	99.3	111.7	124.2

FLOW RATE in Nitrogen (N_2)

FLOW CURVE SL 800-16 REGULATOR

SET: 16 bar / 232 psi
8 bar / 116 psi
4 bar / 58 psi

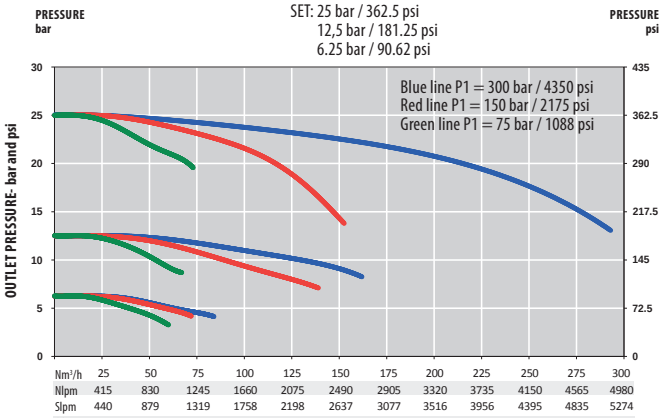


Nm^3/h	25	50	75	100	125	150	175	200	225	250
Nlpm	415	830	1245	1660	2075	2490	2905	3320	3735	4150
Slpm	440	879	1319	1758	2198	2637	3077	3516	3956	4395
SCFM	15.5	31.0	46.6	62.1	77.6	93.1	108.6	124.2	139.7	155.2

FLOW RATE in Nitrogen (N_2)

FLOW CURVE S 800-25 REGULATOR

SET: 25 bar / 362.5 psi
12,5 bar / 181.25 psi
6.25 bar / 90.62 psi

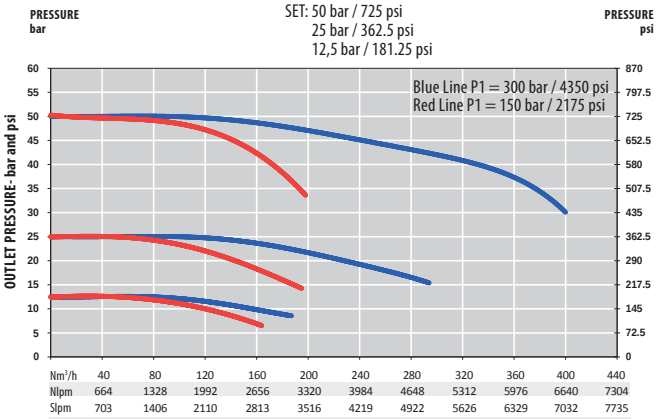


Nm^3/h	25	50	75	100	125	150	175	200	225	250	275	300
Nlpm	415	830	1245	1660	2075	2490	2905	3320	3735	4150	4565	4980
Slpm	440	879	1319	1758	2198	2637	3077	3516	3956	4395	4835	5274
SCFM	15.5	31.0	46.6	62.1	77.6	93.1	108.6	124.2	139.7	155.2	170.7	186.2

FLOW RATE in Nitrogen (N_2)

FLOW CURVE S 800-50 REGULATOR

SET: 50 bar / 725 psi
25 bar / 362.5 psi
12,5 bar / 181.25 psi



Nm^3/h	40	80	120	160	200	240	280	320	360	400	440
Nlpm	664	1328	1992	2656	3320	3984	4648	5312	5976	6640	7304
Slpm	703	1406	2110	2813	3516	4219	4922	5626	6329	7032	7735
SCFM	24.8	49.7	74.5	99.3	124.2	149.0	173.8	198.7	223.5	248.3	273.2

FLOW RATE in Nitrogen (N_2)

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	10	16 x 1.336 - G 3/8	16	EPDM - Standard	With	1
	Chrome plated brass	L		16 bar 232 psi	16	¼ NPT - ¼ NPT	N	FPM		
	Stainless steel	I		25 bar 362.5 psi	25					
				50 bar 725 psi	50					

SERIES TGD 250 | SINGLE STAGE HP HIGH FLOW REGULATOR

- Diaphragm single stage
- Purity up to 5.5
- Inlet pressure: 230 bar (3336 psi)
- Outlet pressure: 20 bar (290psi)

★ High flow regulator
★ 1 inlet / 1 outlet
★ O_2 application compatible
★ Inlet/outlet pressure gauges

Special requirements on request

To be connected with cylinder connectors

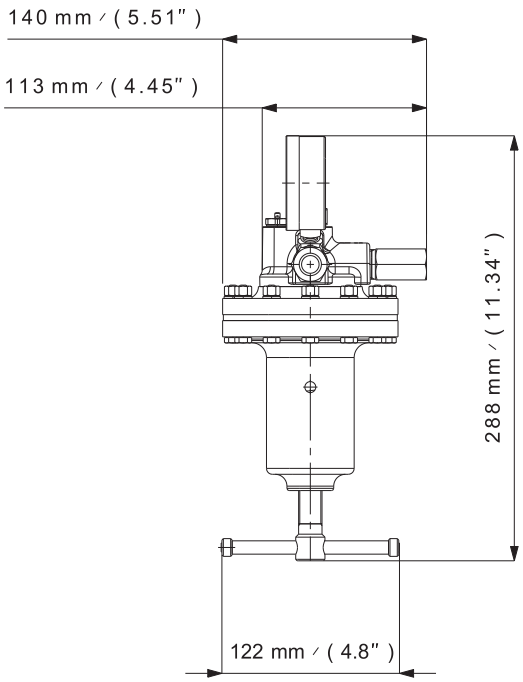
Refer to page 90

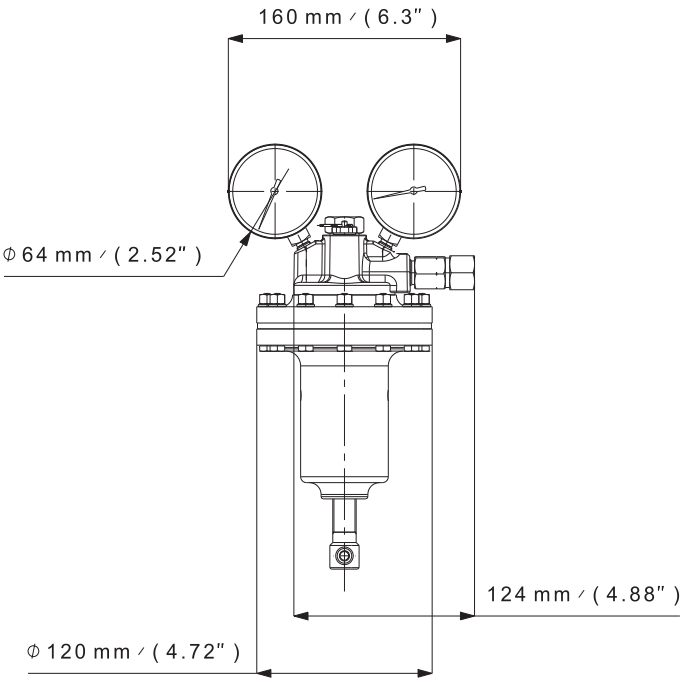
APPLICATIONS

- 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).

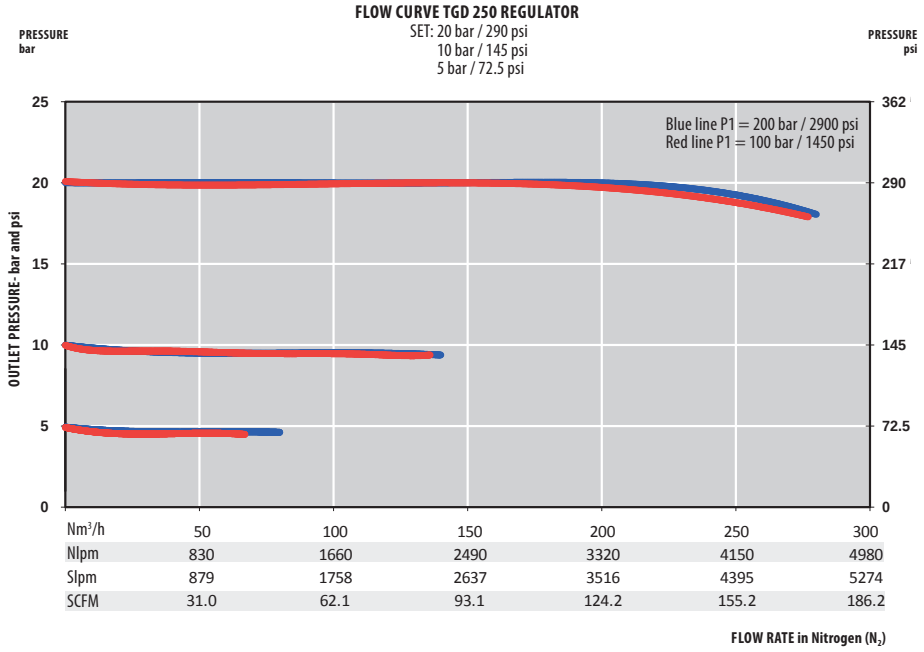




SPECIFICATIONS

Ports	inlet: 16 x 1.336 (Female) outlet: M20 x 1,5 (Male)	**Weight**	± 4,6 kg ± 10.1 lbs	**Inlet pressure**	230 bar 3336 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

		Inlet Connection		Gauges	
TGD	250	16		1	
		16 x 1.336	16	With	1

SERIES S 20 AD | LINE REGULATOR FOR ACETYLENE (C_2H_2)

- 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

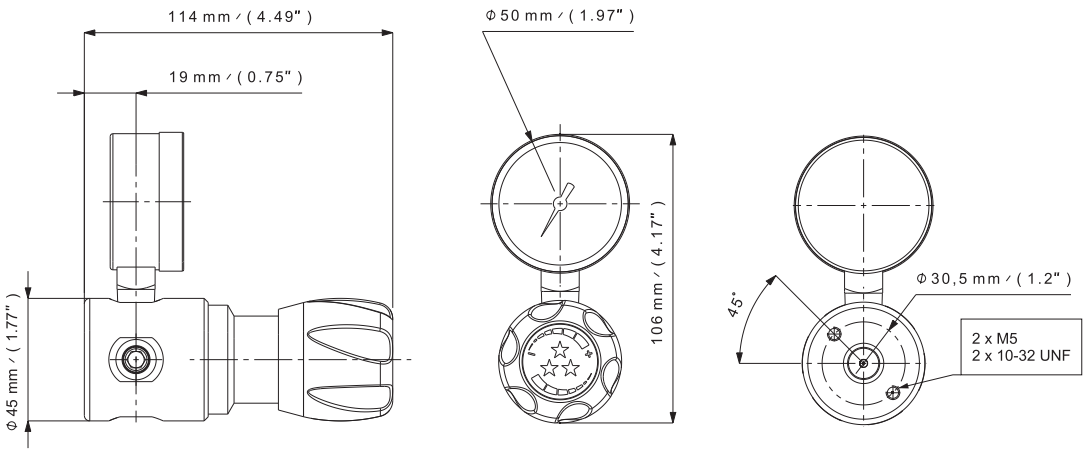
Special requirements on request

APPLICATIONS

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

KEY FEATURES

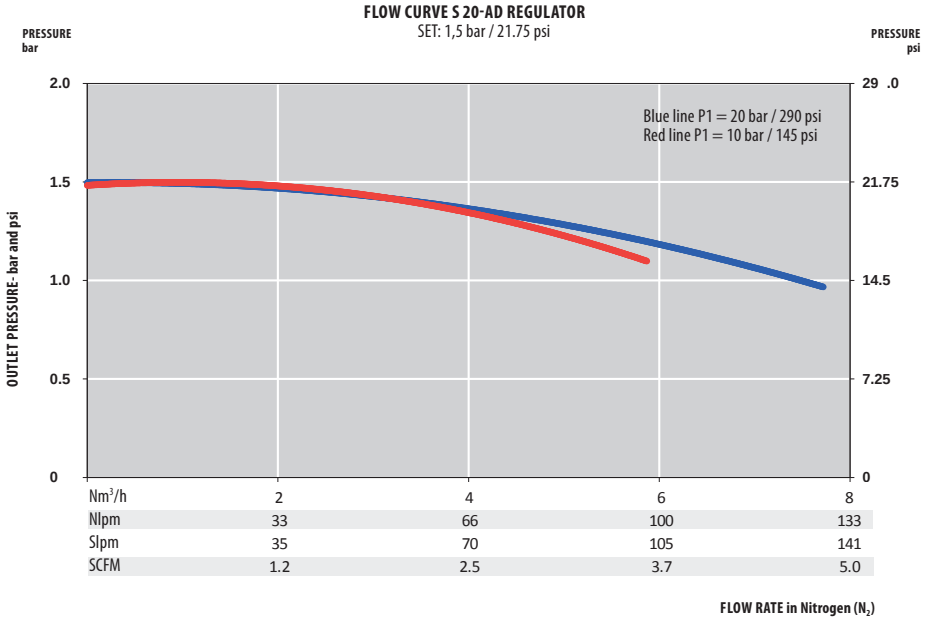
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- With its compact design, the rear threads and its fixing ring (option) it can be used for wall or panel mounting.
- Multiple mounting positions possible due to multiple inlet ports.
- For use with acetylene: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



SPECIFICATIONS

Female ports	G ⅜ or ¼ 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_2H_2)
Bellow	AISI 316L	**Gauges**	Low pressure (M10 x 1 or ¼ NPT)	**Oxygen use**	No

FLOW CURVES



Nm^3/h	2	4	6	8
Nlpm	33	66	100	133
Slpm	35	70	105	141
SCFM	1.2	2.5	3.7	5.0

PRODUCT CONFIGURATOR

	Body Material				End Connections			Gauges		Ports Configuration		Mounting	
S	L		20	AD	G		EPDM	1		A		FR0	
	Chrome plated brass	L			G ⅜ - G ⅜	G		With	1	Standard Configuration	A	Without Fixing Ring	FR0
					¼ NTP - ¼ NPT	N				Reverse inlet/ outlet	R	With Fixing Ring	FR1

SERIES S 25 AD | CYLINDER REGULATOR FOR ACETYLENE (C_2H_2)

- 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

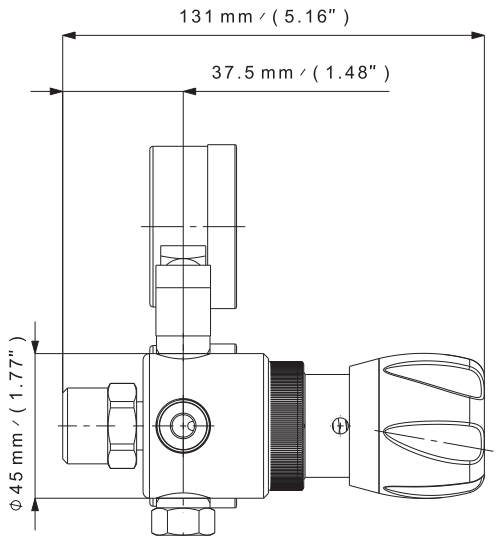
Right view

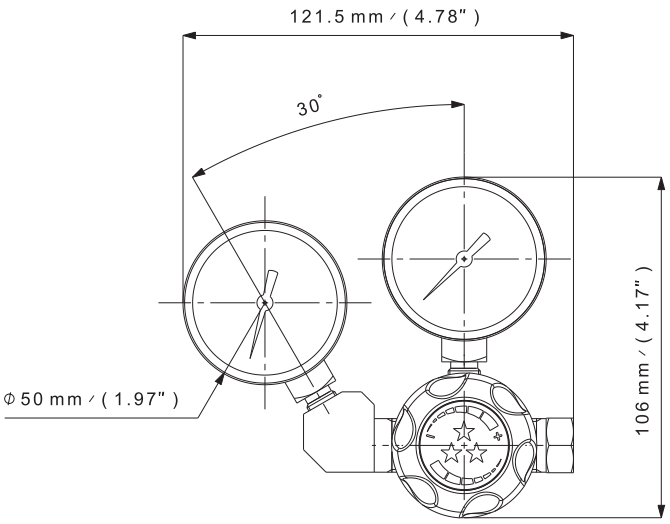
APPLICATIONS

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

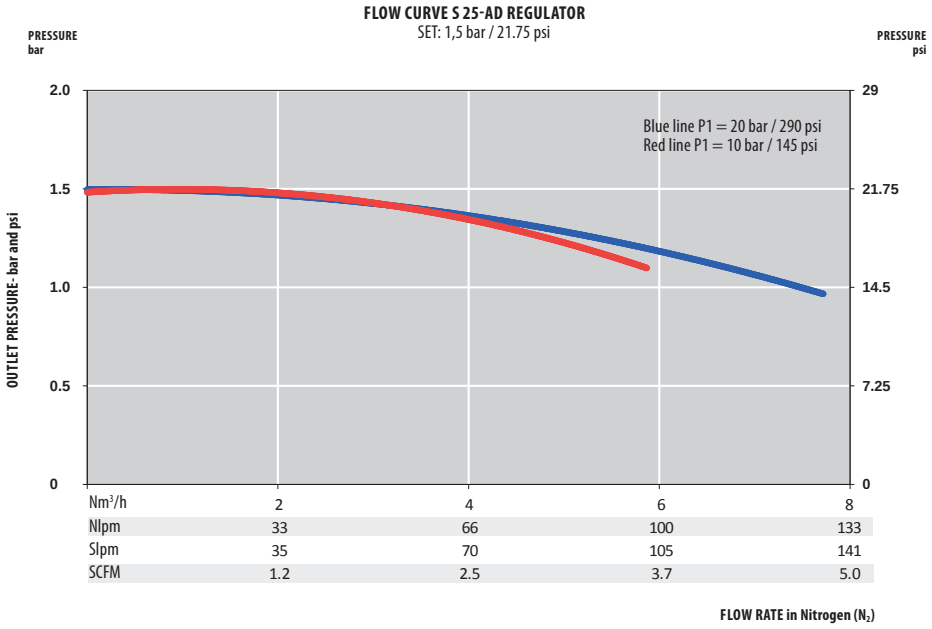




SPECIFICATIONS

Inlet ports	C_2H_2 Cylinder connection in accordance to standard	**Weight**	± 0,5 kg ± 1.1 lbs	**Inlet pressure**	20 bar 290 psi
Outlet ports	G ⅜ or ¼ 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_2H_2)
O-ring	EPDM				
Bellow	AISI 316L	**Gauges**	High / Low pressure (M10 x 1 or ¼ NPT)	**Oxygen use**	No

FLOW CURVES



Nm^3/h	2	4	6	8
Nlpm	33	66	100	133
Slpm	35	70	105	141
SCFM	1.2	2.5	3.7	5.0

PRODUCT CONFIGURATOR

				Inlet Connection		Outlet Connection			Gauges		Mounting	
S	L	25	AD	H		G		EPDM	1		FR0	
				AFNOR H Type (cylind. connect.)	H	G ⅜	G		With high and low pressure gauges	1	Without Fixing Ring	FR0
				British Standard	BS4	¼ NPT	N				With Fixing Ring	FR1
				CGA Standard	510							
				DIN Standard	477-12							

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 - C_2H_2):
  P1 = 20 bar (290 psi)
  P2 = 1,5 bar (21.75 psi)

★ Accurate pressure delivery
★ Compact design
★ 1 inlet / 2 outlets
★ Modular concept
★ O_2 applications compatible (see technical data)

Special requirements on request

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

Acetylene version

APPLICATIONS

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

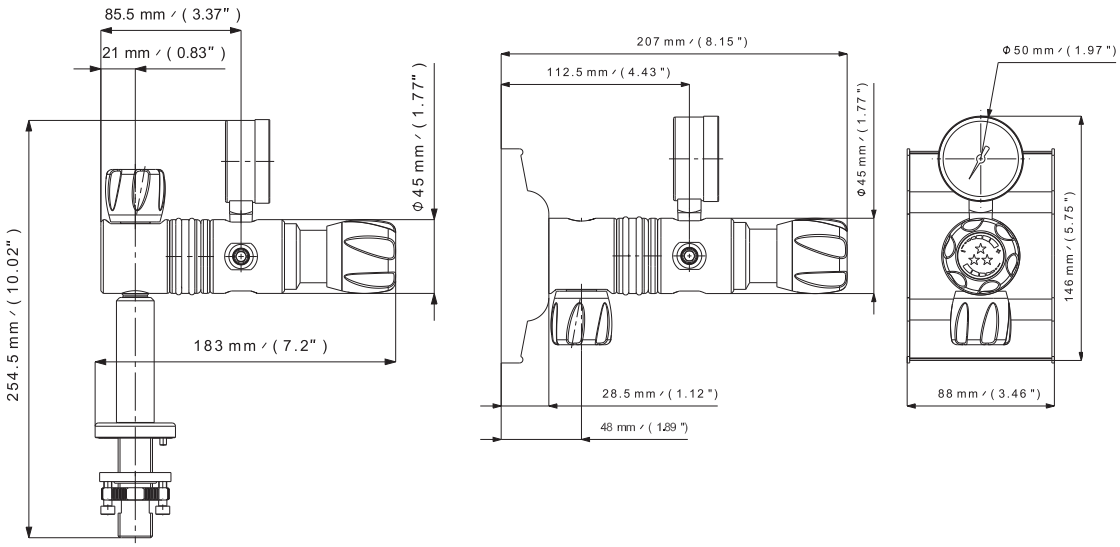
KEY FEATURES

- 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/ ¼V valve

EMB version w/ MV valve

COL version w/ MV valve



SPECIFICATIONS

Female ports	F: G ¼ (inlet-COL version) G ⅜ or ¼ NPT (inlet) G ⅜ or ¼ NPT (outlet)
Seat seal	EPDM
O-ring	EPDM - Standard FPM
Diaphragm	Hastelloy®
Bellow	Bronze or AISI 316L (SS version)

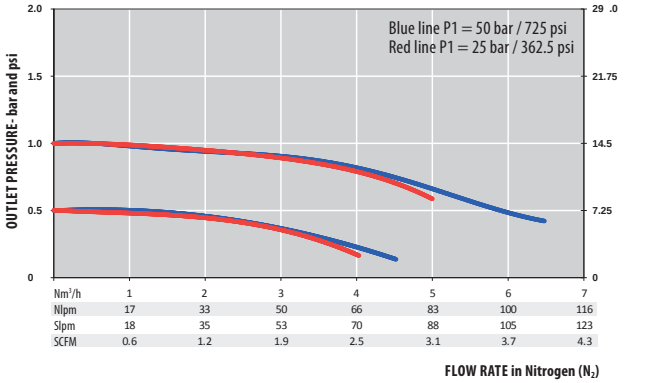
Weight	± 1,5 kg ± 3.3 lbs
Leak rate	10^{-8} mbar ℓ/s He
Temperature range	-20°C to + 60°C -4°F to + 140°F
Gauges	Low pressure (M10 x 1 or ¼ NPT)

Inlet pressure	50 bar (725 psi) AD: 20 bar (290 psi)
Outlet pressure	1/3/10 bar 14.5/44/145 AD: 1,5 bar (21.75 psi)
Nominal Flow	2/2,5/3,5 Nm^3/h (N_2) AD: 1 Nm^3/h
Oxygen use	inlet pressure ≤ 30 bar max. for brass and stainless steel

FLOW CURVES

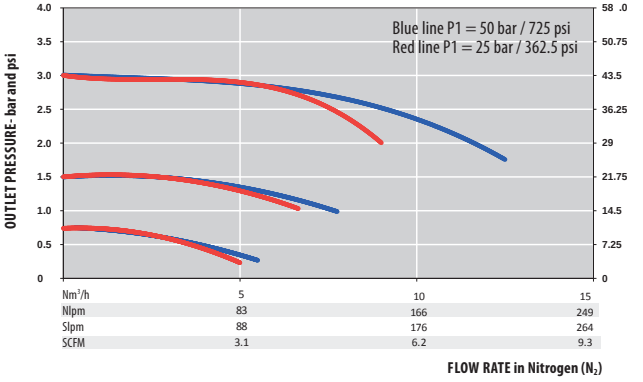
FLOW CURVE LABLINE S 22-1 REGULATOR

SET: 1 bar / 14.5 psi
0,5 bar / 7.25 psi



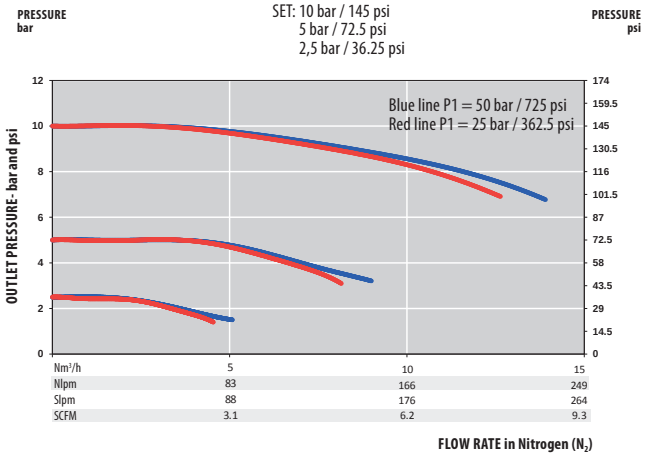
FLOW CURVE LABLINE S 22-3 REGULATOR

SET: 3 bar / 43.5 psi
1,5 bar / 21.75 psi
0,75 bar / 10.88 psi



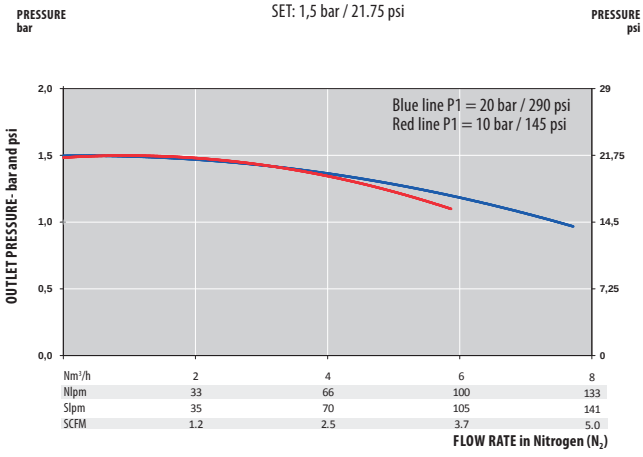
FLOW CURVE LABLINE S 22-10 REGULATOR

SET: 10 bar / 145 psi
5 bar / 72.5 psi
2,5 bar / 36.25 psi



FLOW CURVE LABLINE S 22-AD REGULATOR

SET: 1,5 bar / 21.75 psi



PRODUCT CONFIGURATOR

	Body Material			Version		Outlet Pressure		End Connection		O-ring Material	Gauges		Valve	
S	L		S22	EMB		10		G		EPDM	1		¼V	
	Chrome plated brass	L		With Metal Plate	M	1 bar 14.5 psi	1	G ⅜ - Female (outlet)	G	EPDM - standard	With	1	¼ turn valve	¼V
	Stainless steel	I		With Aluminum stand	EMB	3 bar 44 psi	3	¼ NPT (outlet)	N	FPM			Multi-turn valve	MV
				With pillar*	COL	10 bar 145 psi	10	Note: inlet G ¼ with COL version						
						Acetylene version 1,5 bar 21.75 psi	AD							

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 - C_2H_2):
  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
★ O_2 application compatible (see technical data)

Special requirements on request

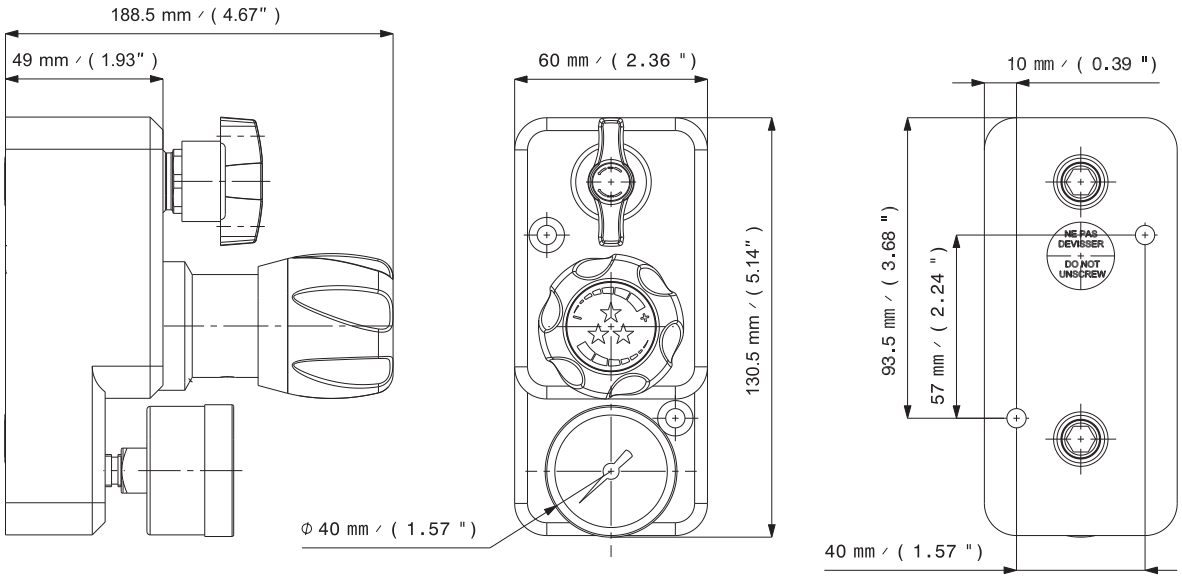
Acetylene version

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

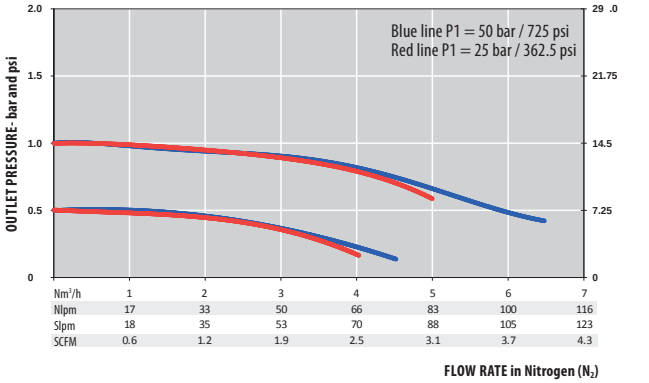


SPECIFICATIONS

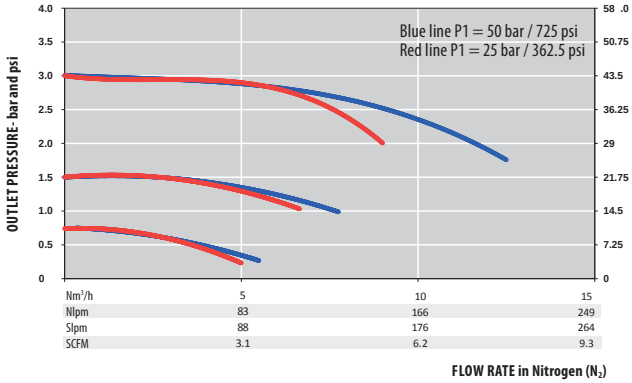
Female ports	G ⅜ (inlet/outlet) or ¼ NPT (inlet/outlet)	**Weight**	Aluminum: ± 1,25 kg (± 2.75 lbs) Stainless steel: ± 2,75 (± 6.06 lbs)	**Inlet pressure**	50 bar (725 psi) AD: 20 bar (290 psi)
Seat seal	EPDM	**Leak rate**	10^{-8} mbar ℓ/s He	**Outlet pressure**	1/3/10 bar 14.5/44/145 psi AD: 1,5 bar (21.75 psi)
O-ring	EPDM - Standard 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

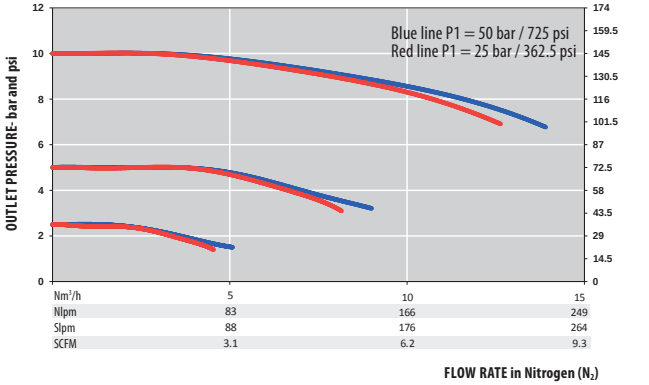
FLOW CURVE S 20-1 REGULATOR
SET: 1 bar / 14.5 psi
0,5 bar / 7.25 psi



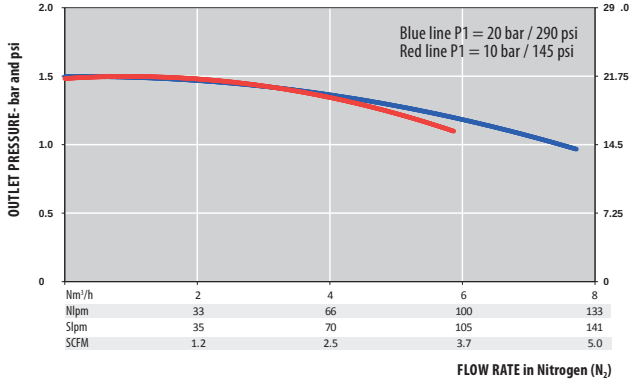
FLOW CURVE S 20-3 REGULATOR
SET: 3 bar / 43.5 psi
1,5 bar / 21.75 psi
0,75 bar / 10.88 psi



FLOW CURVE S 20-10 REGULATOR
SET: 10 bar / 145 psi
5 bar / 72.5 psi
2,5 bar / 36.25 psi



FLOW CURVE MONO S 20-AD REGULATOR
SET: 1,5 bar / 21.75 psi



PRODUCT CONFIGURATOR

		Body Material			Outlet Pressure		End Connections		O-ring Material	Configuration	
M	S	A		20	10		G		EPDM	A	
		Aluminum	A		1 bar 14.5 psi	1	G ⅜ - G ⅜	G	EPDM - standard	Standard configuration	A
		Stainless steel	I		3 bar 44 psi	3	¼ NPT - ¼ NPT	N	FPM		
					10 bar 145 psi	10					
					Acetylene version 1,5 bar (21.75 psi)	AD					

*Inlet Down - outlet Top

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 - C_2H_2):
  P1=1,5 bar (21.75 psi)
  P2=0,8 bar (12 psi)

★ 1 inlet / 1 outlet
★ Rear thread for panel mounting
★ O_2 application compatible
★ High flow

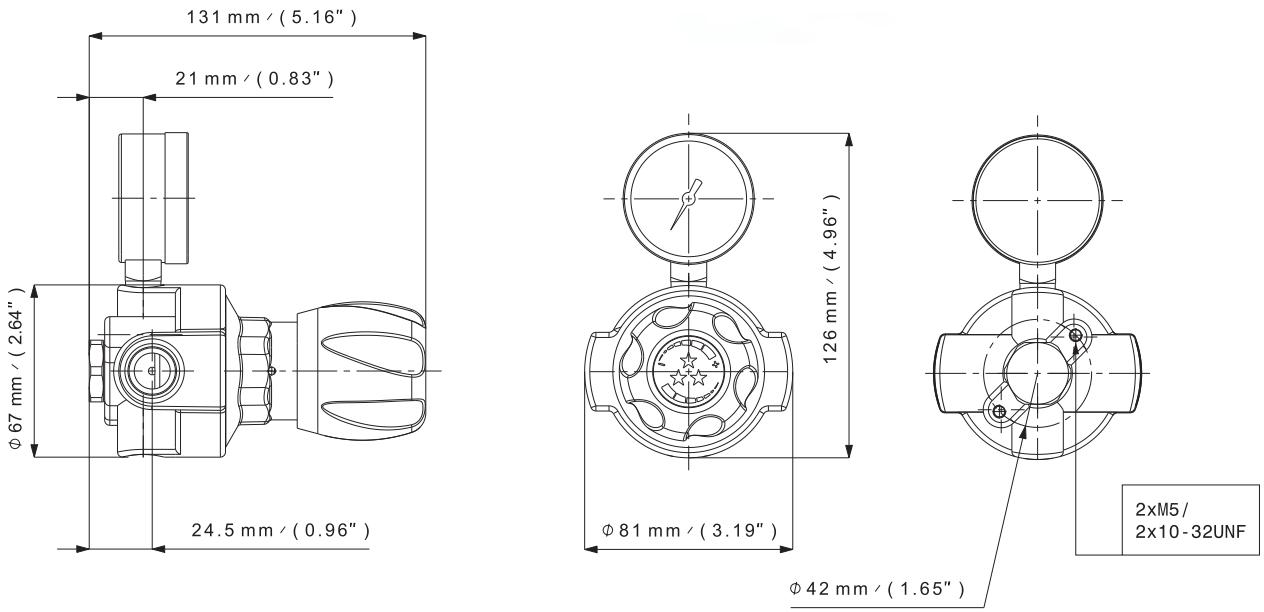
Special requirements on request

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 Nm^3/h
- For use with acetylene this product must be installed with a flash back arrestor complying with the standard EN 730 located downstream.

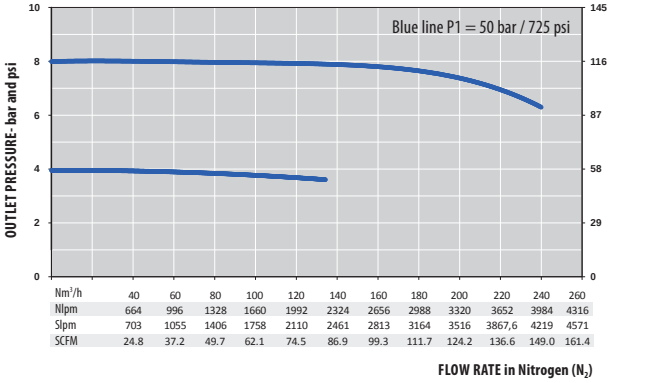


SPECIFICATIONS

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 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 (G¼ or ¼ NPT)	**Oxygen use**	OK

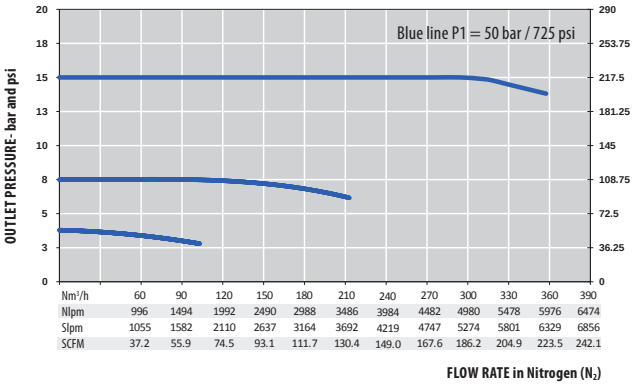
FLOW CURVES

FLOW CURVE DC 50-8 REGULATOR
SET: 8 bar / 116 psi
4 bar / 58 psi



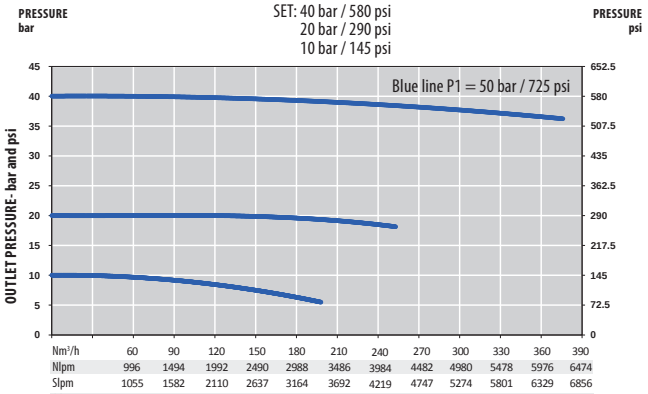
Nm³/h	40	60	80	100	120	140	160	180	200	220	240	260
Nlpm	664	996	1328	1660	1992	2324	2656	2988	3320	3652	3984	4316
Slpm	703	1055	1406	1758	2110	2461	2813	3164	3516	3867,6	4219	4571
SCFM	24.8	37.2	49.7	62.1	74.5	86.9	99.3	111.7	124.2	136.6	149.0	161.4

FLOW CURVE DC 50-15 REGULATOR
SET: 15 bar / 217.5 psi
7,5 bar / 108.75 psi
3,75 bar / 54.38 psi



Nm³/h	60	90	120	150	180	210	240	270	300	330	360	390
Nlpm	996	1494	1992	2490	2988	3486	3984	4482	4980	5478	5976	6474
Slpm	1055	1582	2110	2637	3164	3692	4219	4747	5274	5801	6329	6856
SCFM	37.2	55.9	74.5	93.1	111.7	130.4	149.0	167.6	186.2	204.9	223.5	242.1

FLOW CURVE DC 50-40 REGULATOR
SET: 40 bar / 580 psi
20 bar / 290 psi
10 bar / 145 psi



Nm³/h	60	90	120	150	180	210	240	270	300	330	360	390
Nlpm	996	1494	1992	2490	2988	3486	3984	4482	4980	5478	5976	6474
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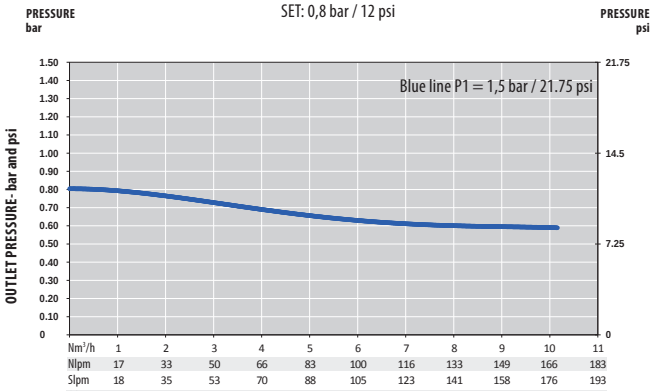
SCFM	37.2	55.9	74.5	93.1	111.7	130.4	149.0	167.6	186.2	204.9	223.5	242.1

FLOW CURVE DC 50-AD REGULATOR
SET: 0,8 bar / 12 psi



Nm³/h	1	2	3	4	5	6	7	8	9	10	11
Nlpm	17	33	50	66	83	100	116	133	149	166	183
Slpm	18	35	53	70	88	105	123	141	158	176	193
SCFM	0.6	1.2	1.9	2.5	3.1	3.7	4.3	5.0	5.6	6.2	6.3

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**	With	**1**
			15 bar 217 psi	**15**	½ NPT - ½ NPT	**N**	FPM	Raw brass	**LB**		
			40 bar 580 psi	**40**							
			Acetylene version 0,8 bar (12 psi)	**AD**							

SERIES VD | DIAPHRAGM LINE VALVE

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

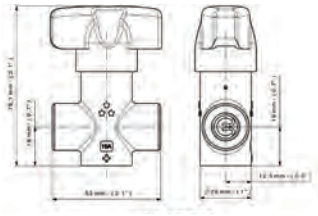
SHUT-OFF VALVE

★ From 50 to 300 bar inlet pressure
★ Diaphragm seal
★ ¼ turn handwheel
★ O_2 compatible (only with Brass version)

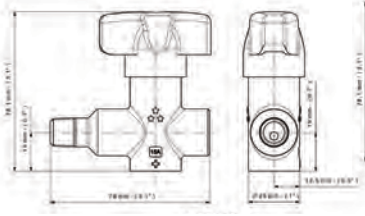
KEY FEATURES

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

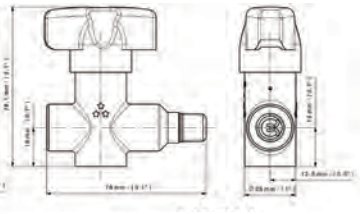
¼ NPT FF & G⅜" FF



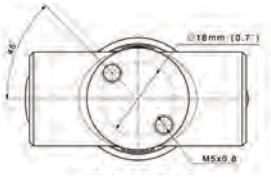
¼ NPT MF



¼ NPT FM



REAR MOUNTING



SPECIFICATIONS

Ports	¼ NPT : FF, MF or FM G⅜: FF	**Weight**	310g	**Inlet pressure**	50 / 200 / 300 bar
Seat seal	PCTFE	**Leak rate**	10^{-8} mbar l/s He	**Flow coefficient (Kv)**	0,17 Kv / 0,2 Cv
Diaphragm	Hastelloy ®	**Temperature range**	-20° to +60 °C	**Oxygen use**	Ok up to 310 bar (brass version only)
Bottom tapered	OK 2x M5 at Ø18mm	**Seat orientation size**	Ø 4mm		

PRODUCT CONFIGURATOR

		Body Material		Inlet Pressure		Orientation		Connection		Handwheel	
V	D	B		50		FF		N		¼T	
		Chrome plated brass	B	50 bar	50	Female-Female	FF	¼NPT	N	¼ turn	¼T
		Stainless steel	S	200 bar	200	Male - Female (only with ¼NPT)	MF	G⅜	G		
				310 bar	310	Female - Male (only with ¼NPT)	FM				

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
★ O_2 application compatible (see technical data)

Special requirements on request

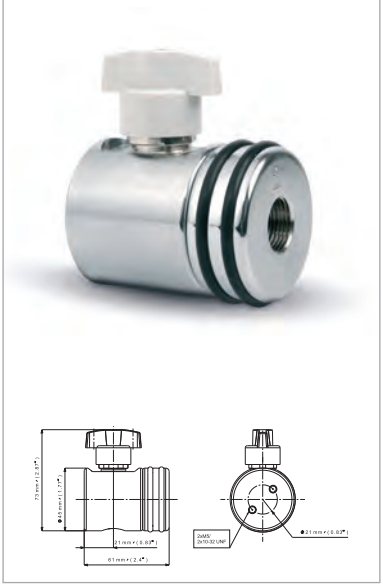
KEY FEATURES

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

OPTIONS

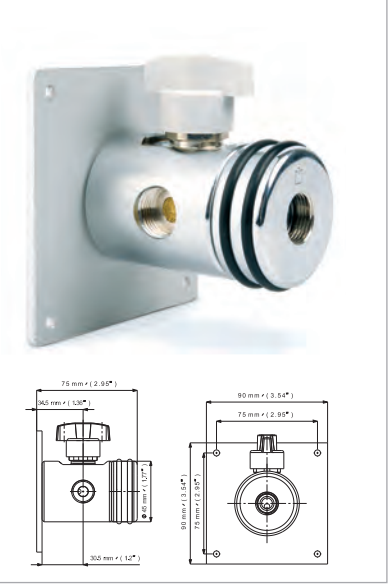
- ¼ turn version
- M: G ⅜" inlet
- Panel mounting board
- Point of use regulator
- Many inlet / outlet fittings available

VLM 20 E ¼ turn



VLM 20 E Multi-turn

VLM 20 M ¼ turn



SPECIFICATIONS

Seat seal	PCTFE / EPDM
O-ring	EPDM - Standard FPM
Bottom tapered	OK
Diaphragm	Hastelloy®

Weight	± 0,95 kg ± 2.10 lbs
Leak rate	10^{-8} mbar ℓ/s He
Temperature range	-20°C to + 50°C -4°F to + 122°F
Seat orifice size	Ø 4 mm

Flow coefficient	Cv 0.14 Kv 0,12
Inlet pressure	50 bar 725 psi
Ports	G ⅜ (inlet/outlet)
Oxygen use	Brass: OK Stainless steel: only E / M versions with side inlet

PRODUCT CONFIGURATOR

	Body Material		Version		End Connections		O-ring Material	Hand wheel	
V	LM20		M		G		EPDM	¼ T	
	Chrome plated brass	LM20	right angle	E	G ⅜	G	EPDM - standard	¼ turn	¼
	Stainless steel	IM20	with plate	M	¼ NPT on demand	N	FPM	Multi-turn	MT

SERIES VM 45 | LINE VALVE

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

SHUT-OFF VALVE

★ Low-pressure
★ High flow
★ Diaphragm seal
★ Multi-turn or ¼ turn
★ O_2 application compatible

Special requirements on request

KEY FEATURES

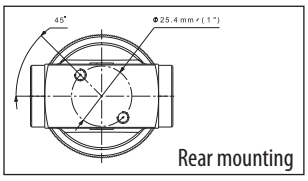
- Purity up to 6.0
- Multi-turn or ¼ turn versions
- Chrome plated brass or stainless steel
- Standard inlet/outlet: G ⅜ - Female
- Fixing ring for flush-mounting in panel
- Rear thread for panel mounting

OPTIONS

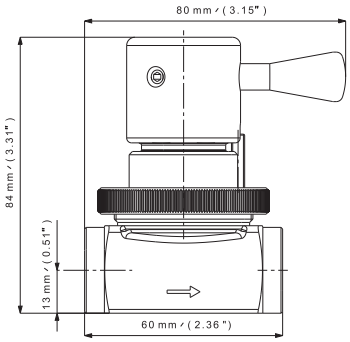
- Choice of two inlet/outlet connections available (see configurator)

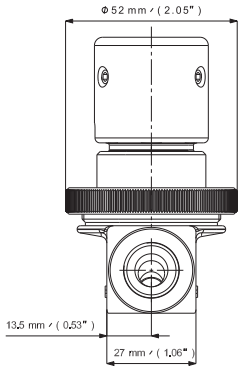
¼ turn version

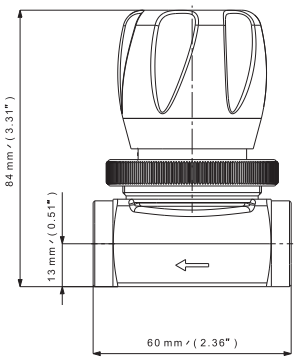
Multi-turn version

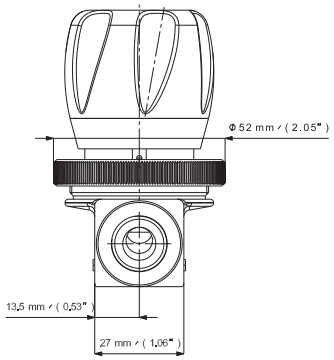


Rear mounting









SPECIFICATIONS

Female ports	G ⅜ or ¼ NPT (inlet/outlet)
Seat seal	PCTFE
Diaphragm	Hastelloy®
Bottom tapered	OK
Weight	± 0,75 kg ± 1.65 lbs

Leak rate	10^{-8} mbar ℓ/s He
Temperature range	-20°C to + 50°C -4°F to + 122°F
Seat orifice size	Ø 8 mm

Inlet pressure	45 bar 650 psi
Flow coefficient	Cv 0.58 Kv 0,50
Oxygen use	OK for brass and stainless steel

PRODUCT CONFIGURATOR

	Body Material			End Connections		Hand wheel	
V	L		M 45	G		¼ T	
	Chrome plated brass	L		G ⅜ - 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

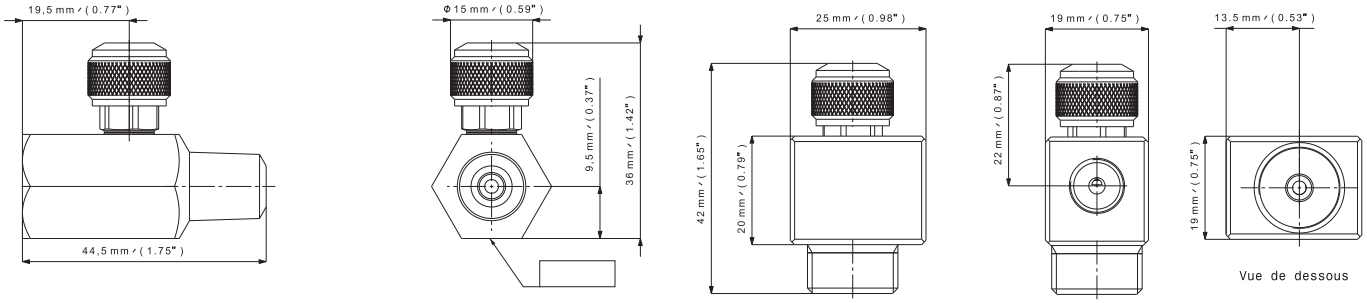
Special requirements on request

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 ⅜ or ¼ NPT Female outlet: G ⅛ or ¼ NPT
Seat seal	Metal / metal
O-ring	EPDM - Standard FPM
Bottom tapered	No
Max of turns open for max flow	3 turns
Weight	± 0,085 kg ± 0.19 lbs
Temperature range	-20°C to + 50°C -4°F to + 122°F
Seat orifice size	Ø 2,5 mm
Inlet pressure	60 bar 870 psi
Flow coefficient	Cv 0.116. Kv 0,10 (straight) Cv 0.174. Kv 0,15 (90°)
Oxygen use	OK with P1=30 bar max

PRODUCT CONFIGURATOR

	Body Material			End Connections		Version		O-ring Material
RD	L		10	G		D		EPDM
	Chrome plated brass	L		In: G ⅜ - Male Out: G ⅛ - Female	G	Straight	D	EPDM - standard
	Stainless steel	I		In: ¼ NPT - Male Out: ¼ NPT - Female	N	Right angle*	E	FPM
				In: G ⅜ - Male Out: ¼ NPT - Female	GN			

*Only available with end connections "G"

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

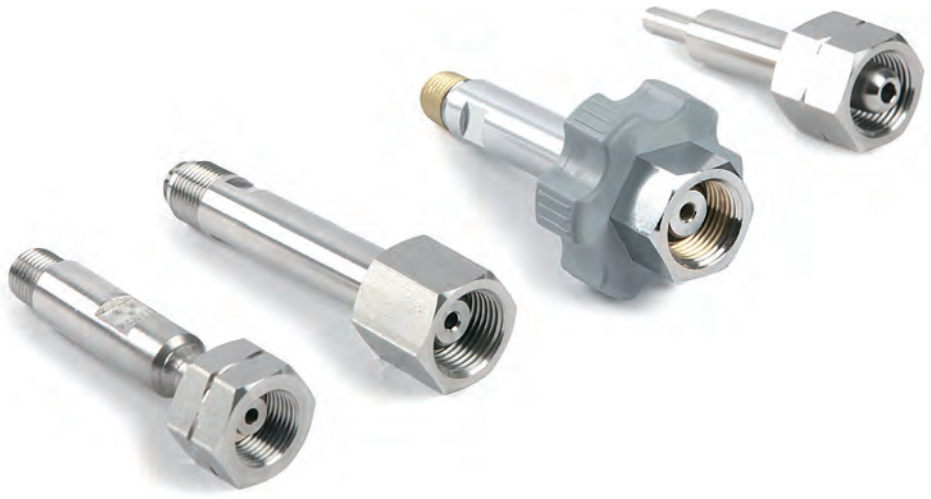
Special requirements on request

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 ¼ NPT - Male
- Material: chrome plated brass or stainless steel

OPTIONS

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

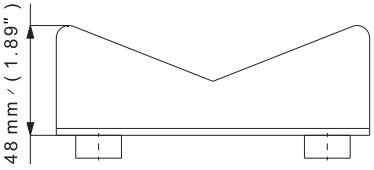


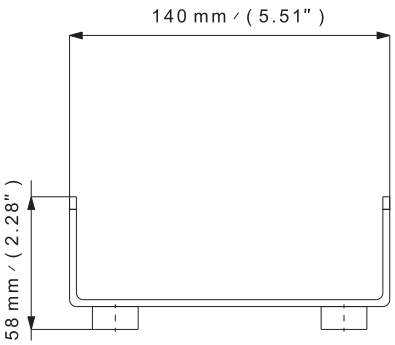
GAS CYLINDER HOLDER

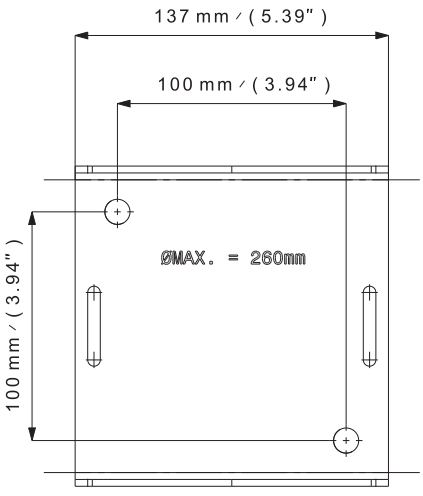
Designed for the storage of one or large number of gas cylinders in an appropriate area

- ★ 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

NOTES

NOTES

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			OK
Argon	Ar	B	OK	OK	OK	OK	OK	OK
Butane	C_4H_{10}	B	OK	OK	OK	OK	OK	
Carbon dioxide	CO_2	B	OK	OK	OK			OK
Carbon monoxide	CO	B	OK	OK	OK	OK		OK
Ethane	C_2H_6	B	OK	OK	OK	OK	OK	
Helium	He	B	OK		OK	OK	OK	OK
Hydrogen	H_2	B	OK		OK	OK	OK	OK
Krypton	Kr	B	OK	OK	OK	OK	OK	
Methane	CH_4	B	OK	OK	OK	OK	OK	
Nitric Oxide	NO	SS 316L		Please consult - depends on proportion of NO in the mixture				
Nitrogen	N_2	B	OK	OK	OK	OK	OK	OK
Nitrous Oxide	N_2O	SS 316L		Please consult - depends on proportion of N_2O in the mixture				
Oxygen	O_2	B					OK	OK
Propane	C_3H_8	B	OK	OK	OK	OK		
Silane	SiH_4	SS 316L		OK	OK		OK	
Ammonia	NH_3	SS 316L	OK	OK	OK			OK
Ethylene	C_2H_4	B	OK	OK	OK			
Hydrogen Sulfide	H_2S	SS 316L	OK	OK	OK		OK	OK
Sulphur Dioxide	SO_2	SS 316L		OK	OK			OK
Sulphur Hexafluoride	SF_6	B	OK	OK	OK	OK	OK	OK

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CONVERSION CHARTS

FLOW CONVERSION

	m^3/h	l/h	$foot^3/min$	l/s	cm^3/s
m^3/h	1	1×10^3	0.589	0,2778	277,78
l/h	1×10^{-3}	1	5.885×10^{-4}	$2,778 \times 10^{-4}$	0,2778
$foot^3/min$	1,69	$1,699 \times 10^3$	1	0,4719	471,95
l/s	3,6	$3,6 \times 10^3$	2.119	1	10^3
cm^3/s	$3,6 \times 10^{-3}$	3,6	2.119×10^{-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}	$9,869 \times 10^{-4}$	14.5×10^{-3}
kPa	10^{-2}	10	1	10^{-3}	$9,869 \times 10^{-3}$	0.145
MPa	10	10^4	10^3	1	9,869	145
atm	1,013	1013	101,3	$1,013 \times 10^{-1}$	1	14.69
psi	$6,89 \times 10^{-2}$	68,9	6,89	$6,89 \times 10^{-3}$	$6,8 \times 10^{-2}$	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
3	0.135
6	0.270
8	0.360
10	0.450
12	0.540
14	0.630
16	0.720
18	0.810
20	0.900
22	0.990
25	1.125

inch fractional	inch decimal	metric (mm)
1⁄16"	0.063	1,59
1⁄8"	0.125	3,18
3⁄16"	0.188	4,76
1⁄4"	0.250	6,35
5⁄16"	0.313	7,94
3⁄8"	0.375	9,53
1⁄2"	0.500	12,70
7⁄16"	0.438	11,11
5⁄8"	0.625	15,88
3⁄4"	0.750	19,05
7⁄8"	0.875	22,23
1"	1.000	25,40

A FULL LINE OF GAS CONTROL SOLUTIONS

COMPLETE SOLUTIONS FROM SOURCE TO PROCESS.

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

CYLINDER VALVES | **EQUIPMENT** | **FIRETEC** | **AUTOMOTIVE** | **LPG/SRG** | **MEDITEC**

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REFRIGERANT CYLINDER VALVES

PRESSURE REGULATORS

SUPPLY & SWITCH OVER BOARDS

LINE VALVES

FITTINGS & ADAPTORS

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OBJECT FIRE SUPPRESSION SYSTEMS

AUTOMOTIVE VALVES & REGULATORS

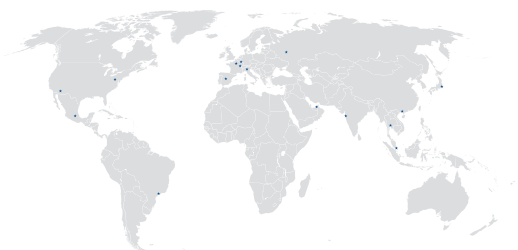
WATER CARBONATION

LPG TANK VALVES & REGULATORS

LPG CYLINDER VALVES & REGULATORS

DIGITAL MEASUREMENT SYSTEMS

PLASTIC INJECTION MOULDING



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