

SERIES S 10 | LINE REGULATOR

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

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

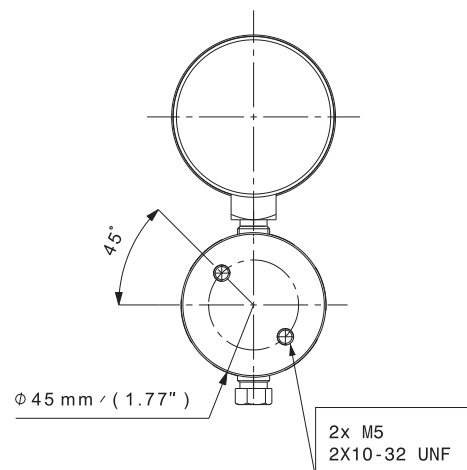
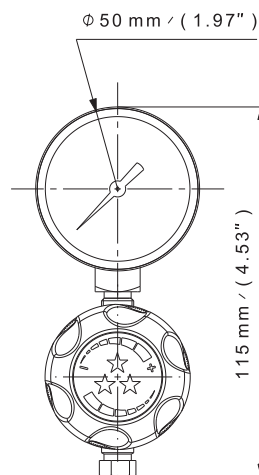
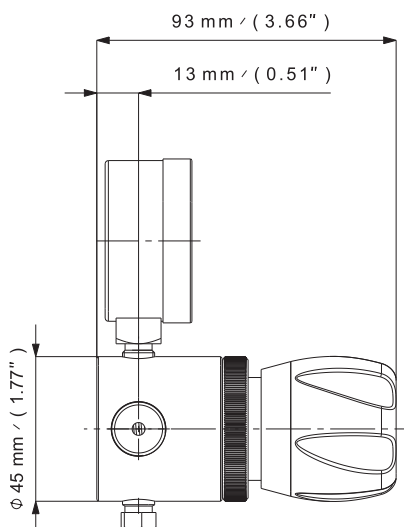
Special requirements on request

APPLICATIONS

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

KEY FEATURES

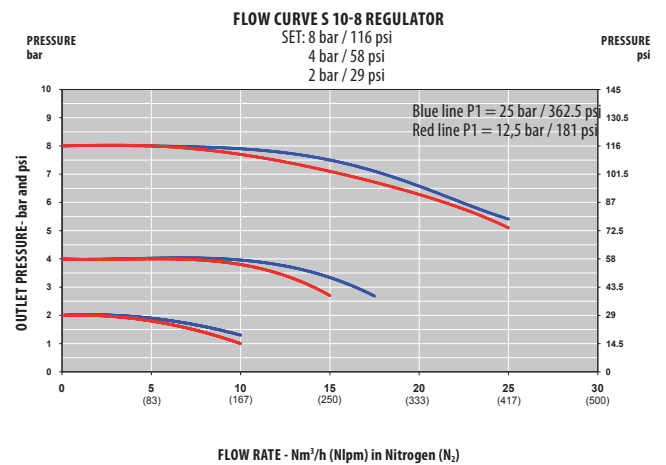
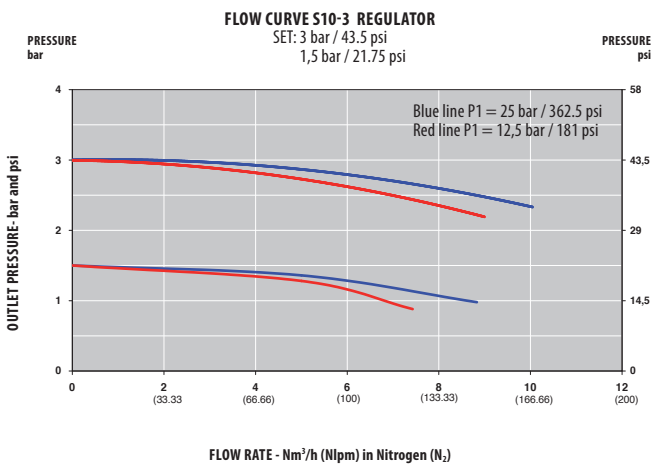
- As a second level of regulation, the SL 10 will supply a precise outlet pressure to the process. It can be used for many applications that need a high flow.
- Flexible wall or panel mounting possible with its compact design, the rear threads and fixing ring.
- Best-in-class pressure control with Balanced-Valve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



SPECIFICATIONS

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

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		Outlet Pressure	End Connections	O-ring Material	Gauges	Mounting	Ports Configuration				
S	L	10	8	G	1	FR0	A				
Chrome plated brass	L	3 bar 44 psi	3	G 3/8 - G 3/8	G	NBR - Standard with brass version	Without 0	Without Fixing Ring	FR0	Standard Configuration	A
Stainless steel	I	8 bar 116 psi	8	1/4 NPT - 1/4 NPT	N	FPM - Standard with stainless steel version EPDM	With 1	With Fixing Ring	FR1	Reverse inlet/outlet	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
- ★ O₂ application compatible

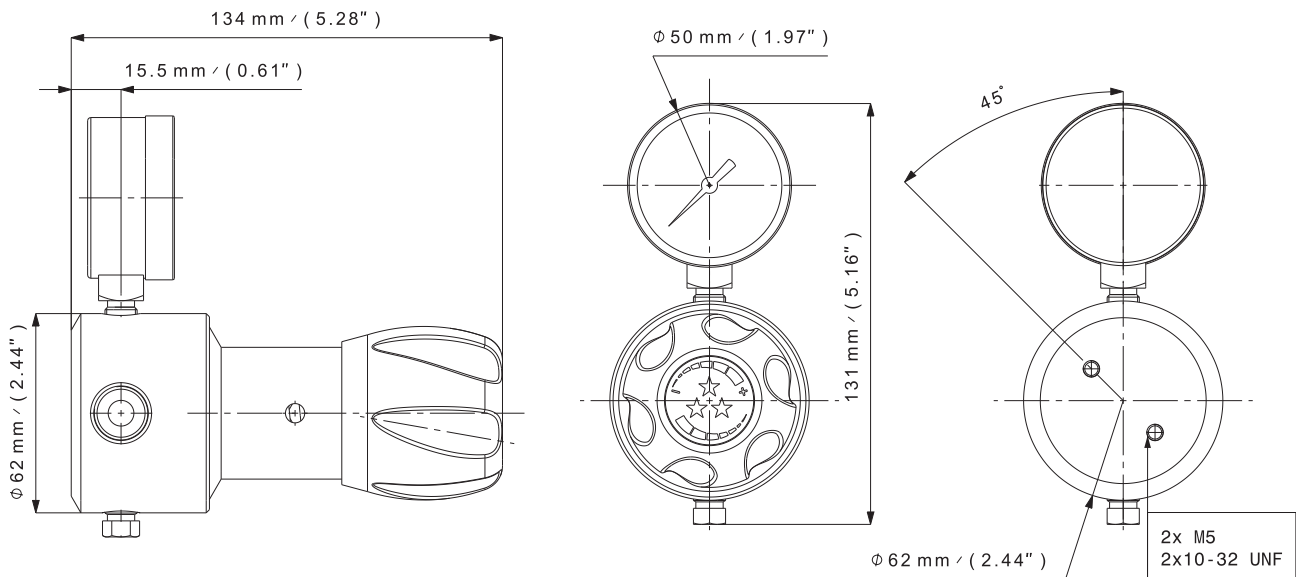
Special requirements on request

APPLICATIONS

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

KEY FEATURES

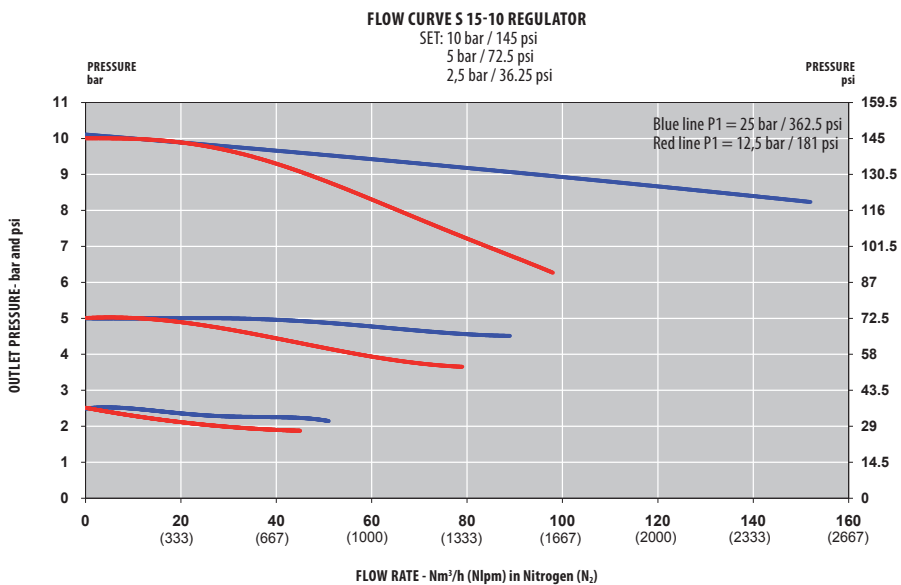
- As a second level of regulation the S 15 will supply a precise outlet pressure to the process.
- Can be used for wall or panel mounting with its compact design, the rear threads and fixing ring.
- Best-in-class pressure stability with Balanced-Valve Technology (Balanced-Valve Technology): the effect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



SPECIFICATIONS

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

FLOW CURVES



PRODUCT CONFIGURATOR

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

SERIES S 20 | LINE REGULATOR

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

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

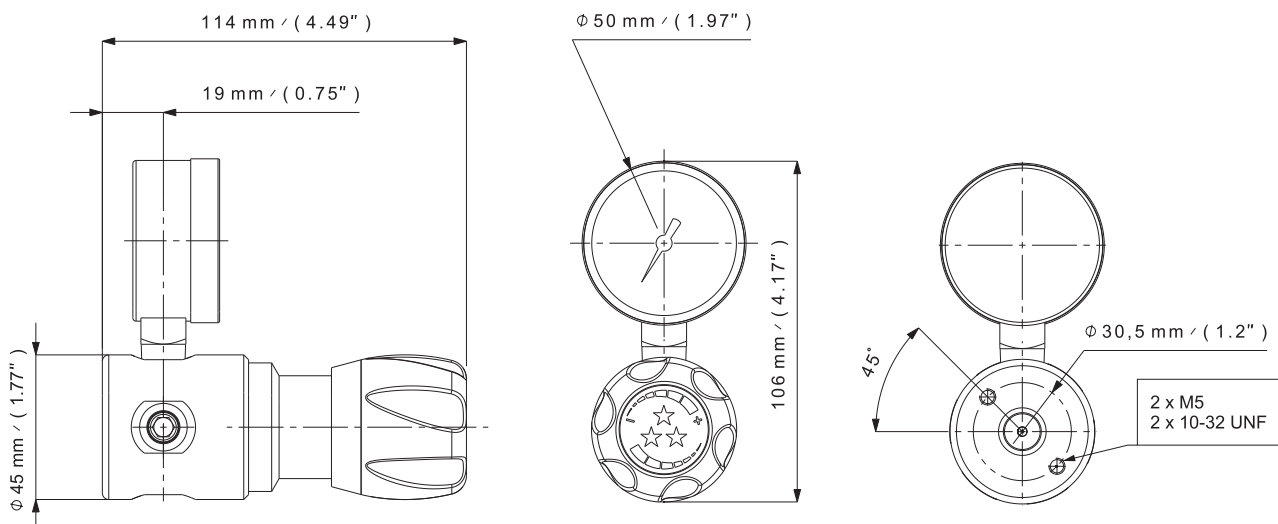
Special requirements on request

APPLICATIONS

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

KEY FEATURES

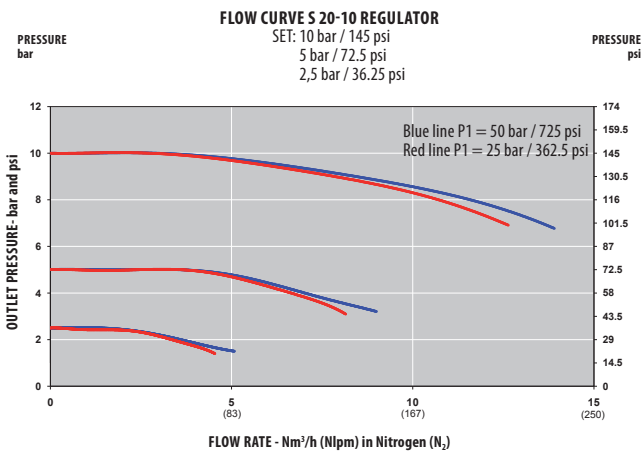
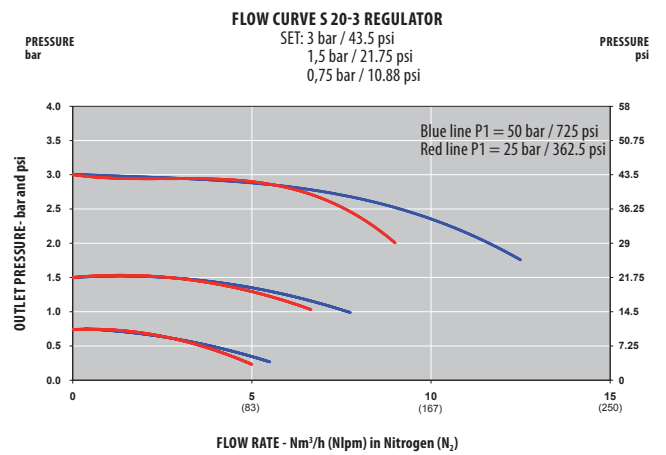
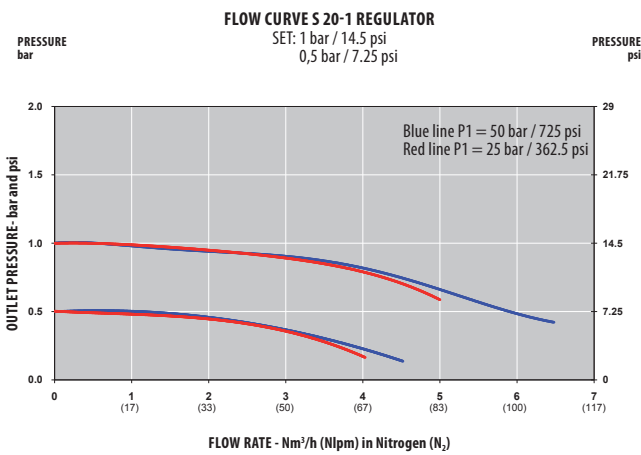
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- With its compact design, the rear threads and its fixing ring (option) it can be used for wall or panel mounting.
- Acetylene version available: Series S 20 AD & S 25 AD (See pages 66 and 68)



SPECIFICATIONS

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

FLOW CURVES



PRODUCT CONFIGURATOR

S	Body Material		Outlet Pressure		End Connections		O-ring Material	Gauge	Mounting		Ports Configuration		
	L	I	10	20	G	G	EPDM	1	FR0	FR0	A		
	Chrome plated brass	L	1 bar 14.5 psi	1	G 3/8 - G 3/8	G	EPDM - Standard	Without	0	Without Fixing Ring	FR0	Standard Configuration	A
	Stainless steel	I	3 bar 44 psi	3	1/4 NTP - 1/4 NPT	N	NBR	With	1	With Fixing Ring	FR1	Reverse inlet/outlet	R
			10 bar 145 psi	10			FPM						

SERIES S 20-0.1 | LINE REGULATOR

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

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

Special requirements on request

APPLICATIONS

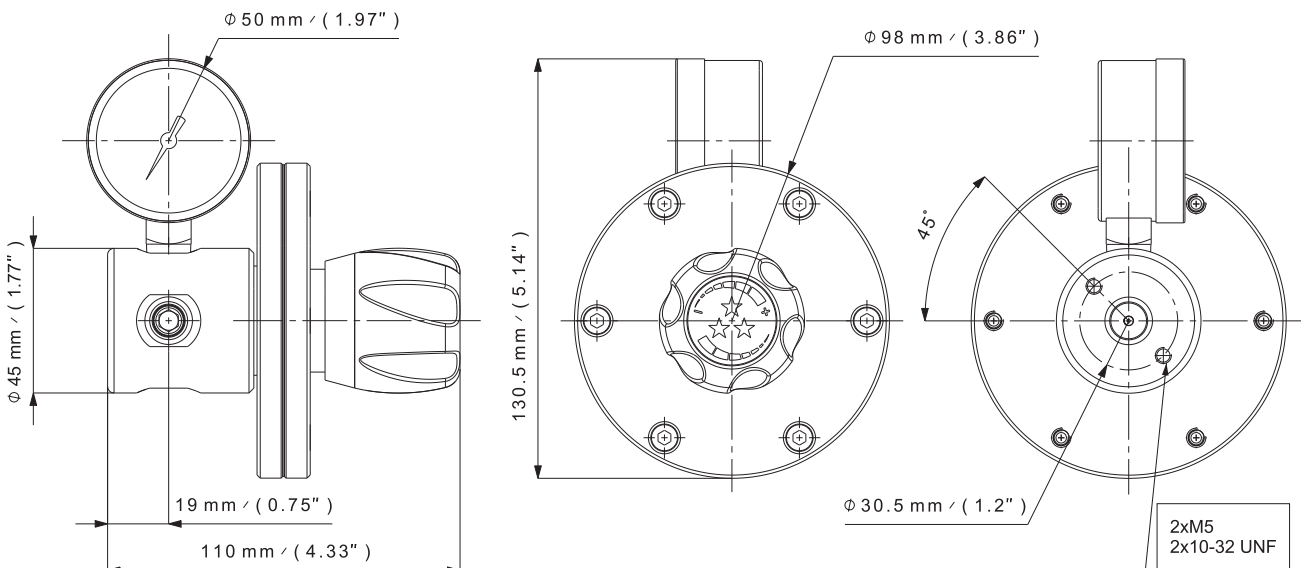
- The Series S 20-0.1 is used as a line regulator for lab applications requiring a low outlet pressure less than 10 mbar (1.45 psi).

KEY FEATURES

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



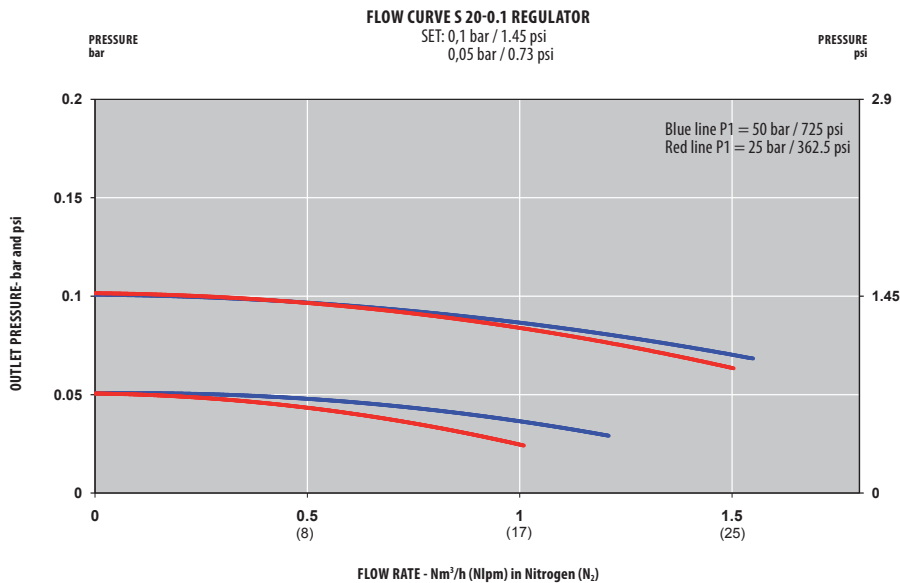
Rear inlet view



SPECIFICATIONS

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

FLOW CURVES



PRODUCT CONFIGURATOR

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

SERIES S 55 | LINE REGULATOR

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

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

Special requirements on request

APPLICATIONS

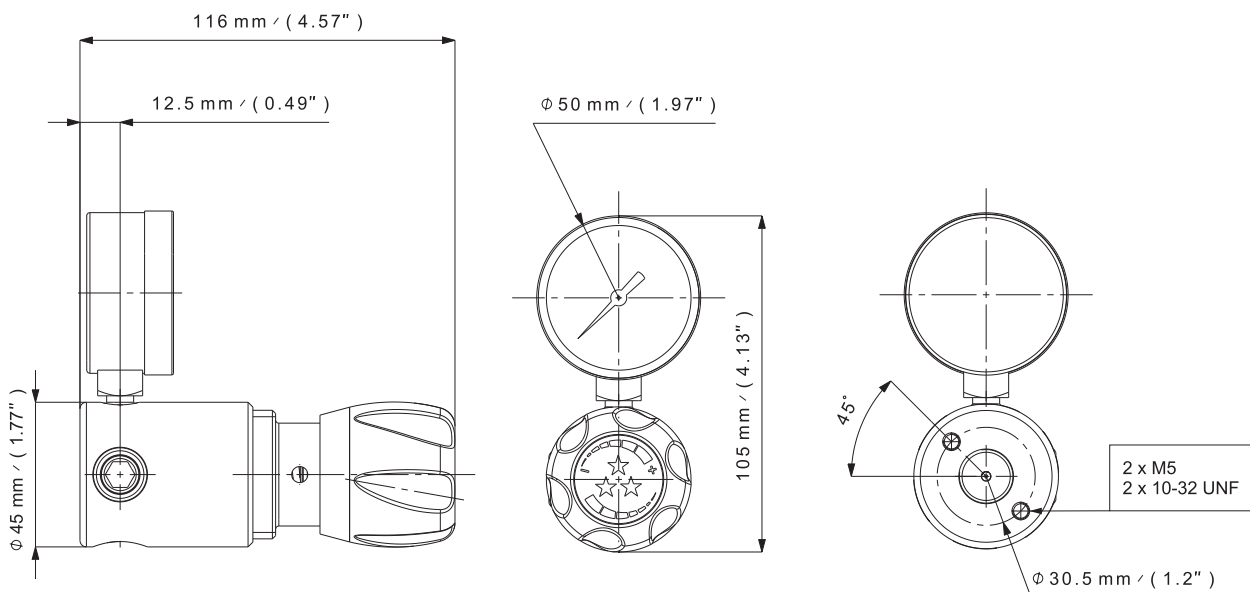
- Designed for line regulator applications in petrochemical, industrial and laboratory environments.
- Used in calibration gas mixtures for petrochemical industry; environmental emission monitoring, industrial hygiene or safety monitors and trace impurity analyzers.
- Also commonly used to oxygenate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

KEY FEATURES

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



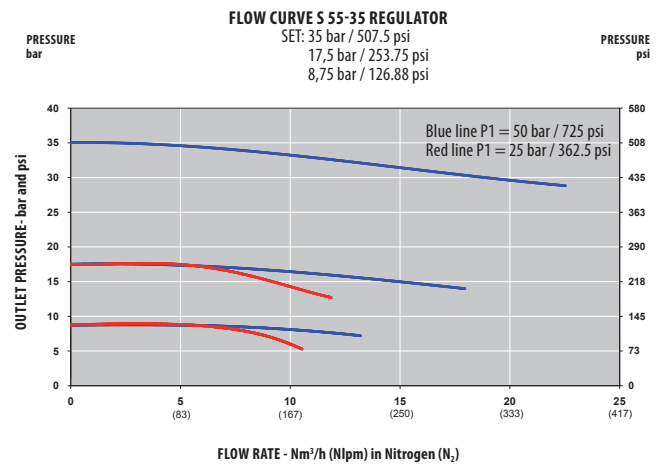
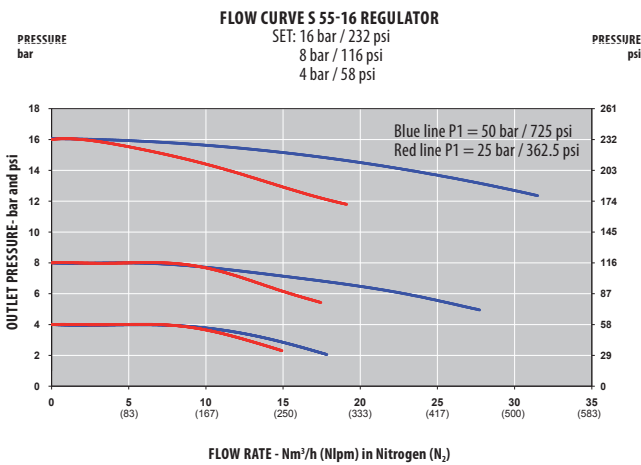
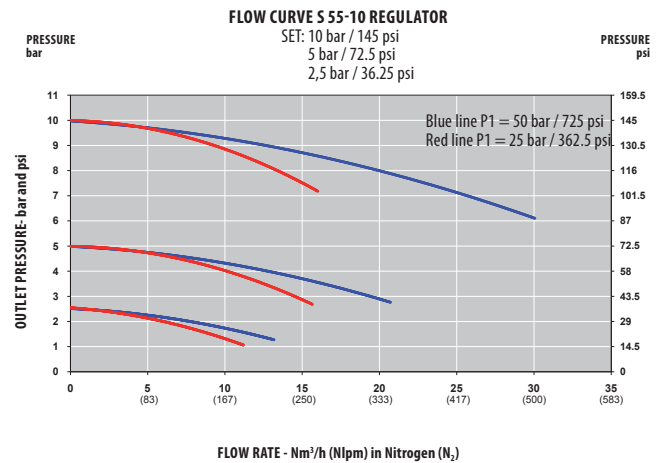
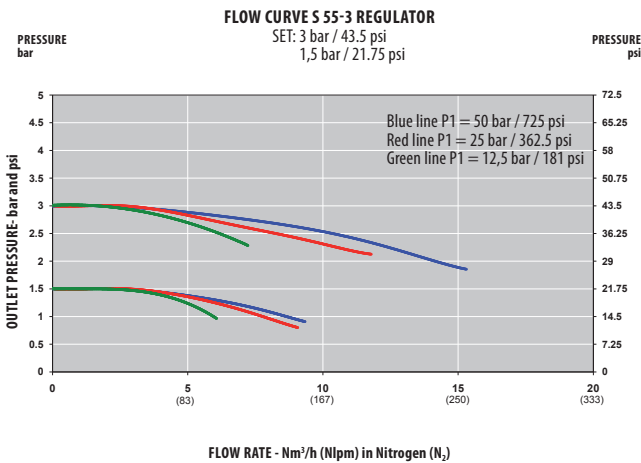
Rear inlet view



SPECIFICATIONS

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

FLOW CURVES



PRODUCT CONFIGURATOR

Body Material		Outlet Pressure	End Connections	O-ring Material	Gauges	Mounting	Ports Configuration
S	L	55	G	EPDM	1	FR1	A
	L	3 bar / 44 psi	G 3/8 - G 3/8	EPDM - Standard	Without	FR0	Standard configuration
	I	8 bar / 116 psi	1/4 NPT - 1/4 NPT	NBR	With	FR1	Reverse inlet/outlet
		10 bar / 145 psi		FPM			
		16 bar / 232 psi					
		35 bar / 508 psi					

SERIES DC 50 | HIGH FLOW LINE REGULATOR

- Diaphragm single stage
- Balanced-Valve Technology
- Purity up to 5.0
- Inlet pressure:
50 bar (725 psi)
- Outlet pressure:
8/15/40 bar
116/217/580 psi
- Acetylene version (AD - C₂H₂):
P1=20 bar (290 psi)
P2=0,8 bar (12 psi)

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

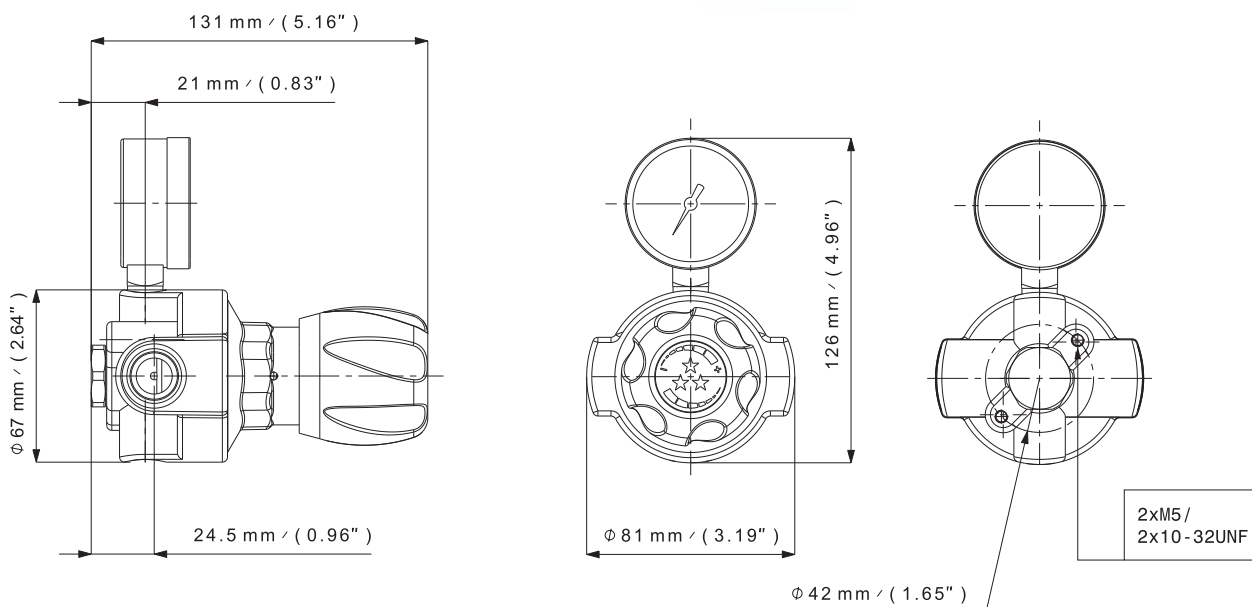
Special requirements on request

APPLICATIONS

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

KEY FEATURES

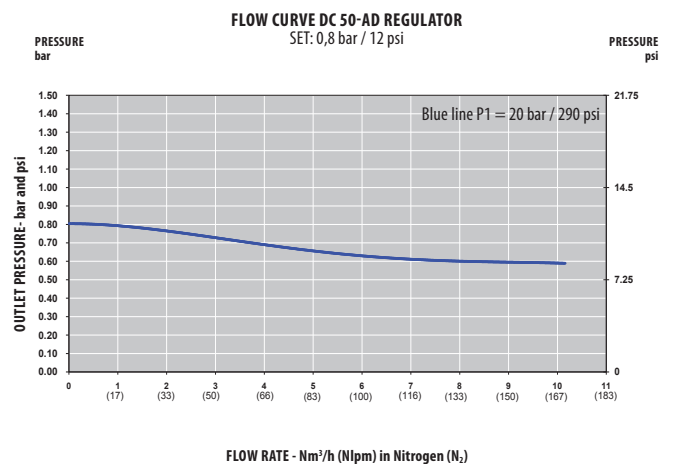
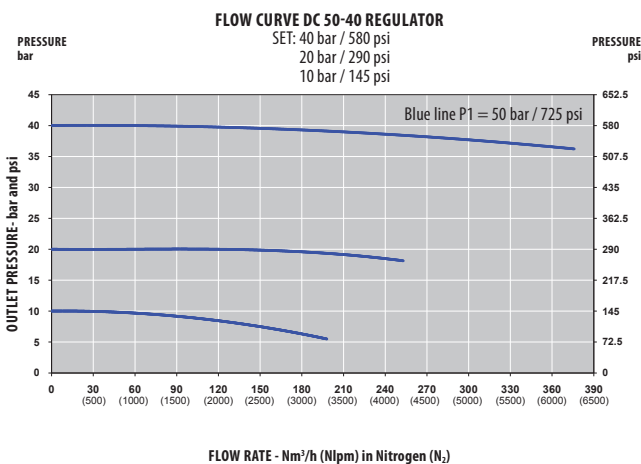
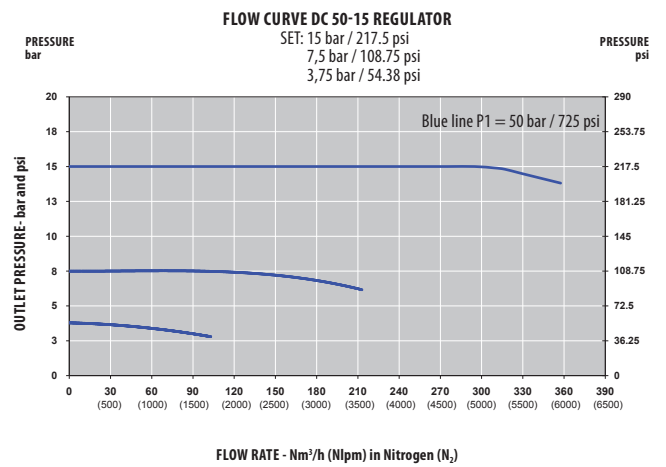
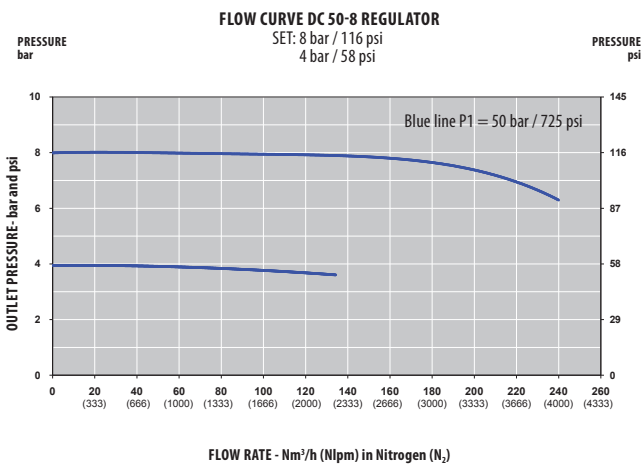
- Low pressure regulator with high flow, without vibration.
- Best-in-class pressure stability with Balanced-Valve Technology: the effect of inlet pressure fluctuations on outlet pressure is minimized. BV-technology enables the delivery of a very stable outlet pressure and flow even with high flow line regulators.
- reduced strain on the seat increases regulator life and reduces the ownership cost.
- Acetylene version available:
P1=20 bar/P2=0,8 bar/Q=10 Nm³/h
- For use with acetylene this product must be installed with a flash back arrestor complying with the standard EN 730 located downstream.



SPECIFICATIONS

Female ports	G ½ or ½ NPT (inlet/outlet)	Weight	± 1,4 kg ± 3.1 lbs	Inlet pressure	50 bar (725 psi) AD: 20 bar (290 psi)
Seat seal	EPDM	Leak rate	10 ⁻³ mbar ℓ/s He	Outlet pressure	8/15/40 - 0,8 bar (AD) 116/217/580 - 12 psi (AD)
O-ring	EPDM - Standard NBR FPM	Temperature range	- 20°C to + 60°C - 4°F to + 140°F	Nominal Flow	150/300/300 Nm ³ /h (N ₂) 10 Nm ³ /h (AD)
Diaphragm	EPDM	Gauges	Low pressure (G ¼ or ¼ NPT)	Oxygen use	OK

FLOW CURVES



PRODUCT CONFIGURATOR

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