

Calibration Gas Regulators / Regler fuer Kalibriergase

VSR-15 Series

Product Features

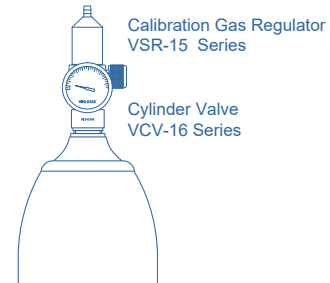
- Cylinder pressure regulator
- Brass chrome plated body or stainless steel body
- Piston type

Typical Applications

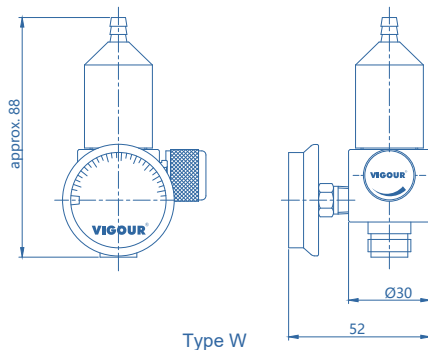
- Calibration system.

Technical Data

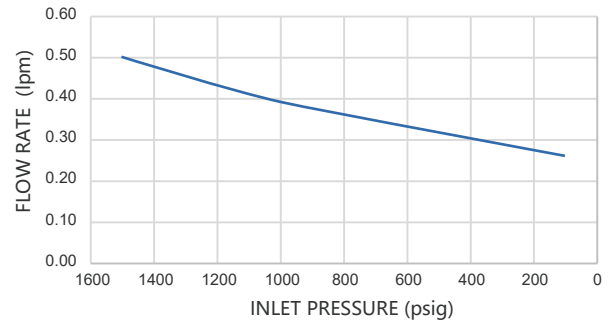
Type:	single-stage
Inlet pressure :	max. 200 bar
Outlet pressure :	4 bar(standard) 2 bar(option)
Outlet flow settings :	see ordering info
Materials :	
Body regulator :	see ordering info
Temperature range:	-20°C to +50°C
Leak rate	1.10 ⁻⁴ mbar.l/s
Weight:	0.35 kg



Dimensions (mm)



Pressure Drop Curve



Ordering Information

VSR - 15C - 200 - 4 - 0.2 - C10 - 3/16 - W — Flow Setting Type

W: Hand wheel

Body Material

- S: 316L
- C: Chrome Plated Brass

Inlet Pressure P₁

- 20: 20 bar
- 200: 200 bar

Outlet Pressure P₂

- 2: 2 bar (standard)
- 4: 4 bar (option)

Outlet connection

3/16: 3/16" Hose barb

Inlet connection

C10: 5/8-18 UNF(C-10)
CGA600: CGA600

Norminal Flow

- | | |
|--------------|--------------|
| 0.2: 0.2 LPM | 1.5: 1.5 LPM |
| 0.3: 0.3 LPM | 2.5: 2.5 LPM |
| 0.5: 0.5 LPM | 5: 5 LPM |
| 1: 1 LPM | 6: 6 LPM |

Regler fuer Kalibriergase / Calibration Gas Regulators VSR-19 Series

Product Features

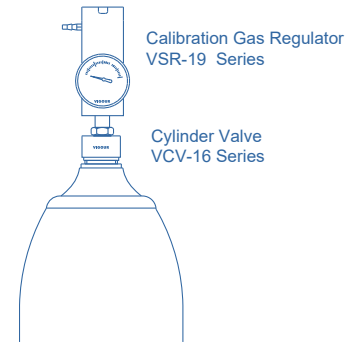
- Cylinder pressure regulator
- Aluminum body
- Piston type
- On/Off valve

Typical Applications

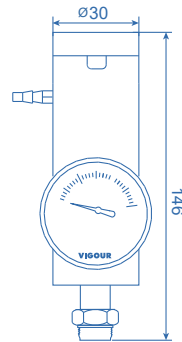
- Disposable cylinders of non-corrosive gases
- Calibration system

Technical Data

Type:	single-stage
Maximum inlet pressure	200 bar
Outlet flow settings (orifice)	see ordering info
Materials :	
Body regulator :	aluminum
Inlet fitting	C10, CGA600
Outlet fitting	3/16" hose barb
Temperature operating range	-20°C to +50°C
Weight:	0.30 kg



Dimensions (mm)



Ordering Information

VSR - 19A - 15 - C10 - 3/16

Body Material

A: Aluminum

Outlet flow settings

2: 0.25-2 LPM

6: 0.5-6 LPM

8: 1-8 LPM

15: 2-15 LPM

Outlet connection

3/16: 3/16" Hose barb

Inlet connection

C10: C10

CGA600: CGA600

High pressure self-venting Regulator / Druckminderer selbstentlüftend VSR-7 Series

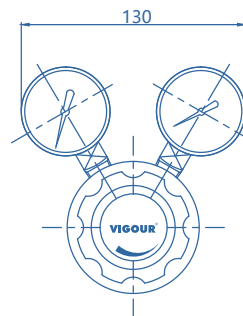
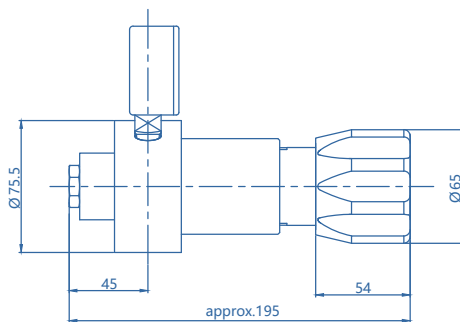
Product Features

- High pressure , high flow regulator
- Brass chrome plated body and bonnet for inert,reactive,flammable and oxidizing gas and mixtures up to grade 6.0
- Stainless steel 316L body for pharmaceutical, food, and beverage application
- Simple outlet pressure limitation by handwheel
- Self-venting standard
- Stable outlet pressure
- Tested for use with oxygen

Typical Applications

- Component Testing
- Calibration Systems
- Laboratory Pressure Control
- High Pressure Sampling Systems
- Service & Test Equipment

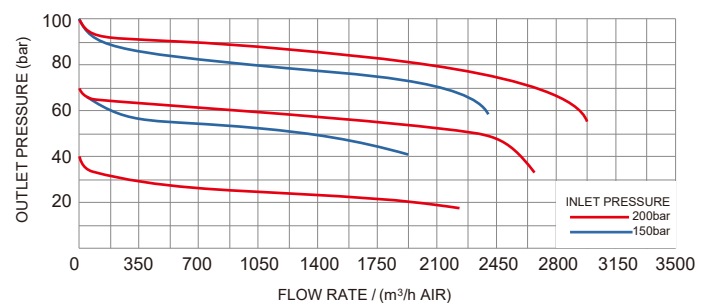
Dimensions (mm)



Technical Data

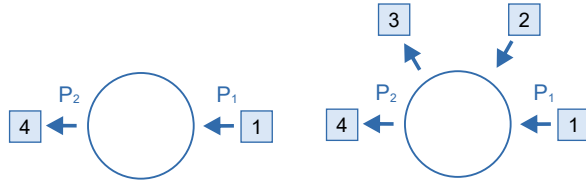
Type:	single-stage
Inlet pressure P ₁ :	max. 300 bar
Outlet pressure P ₂ :	20/35/50/100 bar
Materials	
Body regulator:	see ordering info
Valve seat:	PCTFE
Filter:	SS 316L
O-ring:	Viton® (FKM)
Back-up ring:	PTFE
Gaskets:	PCTFE
Inlets and Outlets:	1/2" NPT(F) or 3/4" NPT(F)
Temperature range:	-30°C to +74°C
Leak rate (to atmosphere) (via seat)	Bubble-tight Bubble-tight
Flow capacity:	C _v =0.8
Weight:	2.9 kg

Flow Chart



Druckminderer selbstentlüftend / High Pressure Self-venting Regulator VSR-7 Series

Ordering Information



Inlets / Outlets

F8: 1/2NPT(F)

F12: 3/4NPT(F)

TW12M: 12mm weld tube

TW20M: 20mm weld tube

P: Gauge(Psig/bar)

B: Plug

* Other connection standard, consult factory.

Port Selection

VSR - 7S - 200 - 20 - 1 - 2 - 3 - 4 - N2 - X

Body Material

S: 316L

C: Chrome Plated Brass

Option

X: Non self-venting

Type Of Gas

Please specify type of gas

Inlet Pressure P₁

40: 40 bar

100: 100 bar

200: 200 bar

300: 300 bar

Outlet Pressure P₂

20: to 20 bar

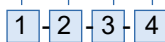
35: to 35 bar

50: to 50 bar

100: to 100 bar

Ordering Example

Example: VSR - 7S - 300 - 50 - F8 - P - P - F8 - N2



High Pressure Self-venting Regulator / Druckminderer selbstentlüftend VSR-8 Series

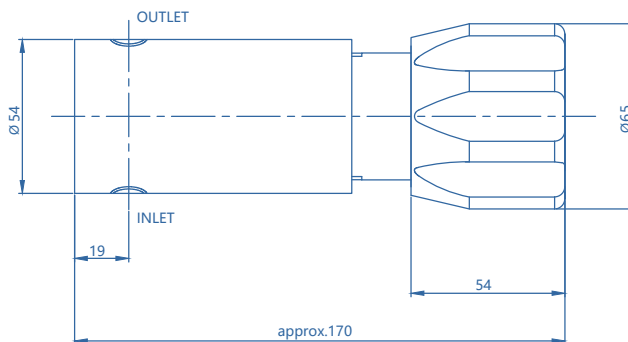
Product Features

- Piston type high pressure regulator
- Self-Venting standard
- Brass chrome plated body and bonnet for inert, reactive, flammable and oxidizing gas and mixtures up to grade 6.0
- Stainless steel 316L body and bonnet for corrosive gases
- 4 ports flexible configuration
- Stable outlet pressure
- Simple outlet pressure limitation by handwheel
- Inlet filter
- Tested for use with oxygen

Typical Applications

- Component Testing
- Calibration Systems
- Laboratory Pressure Control
- High Pressure Sampling Systems
- Service & Test Equipment

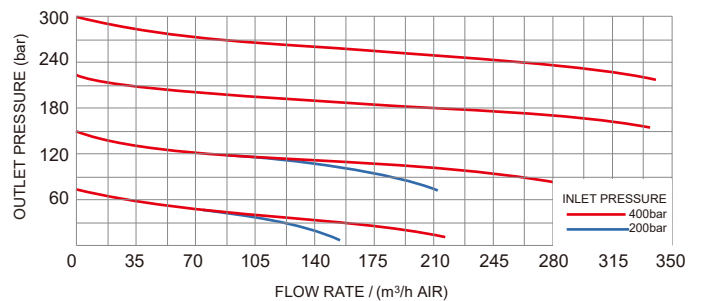
Dimensions (mm)



Technical Data

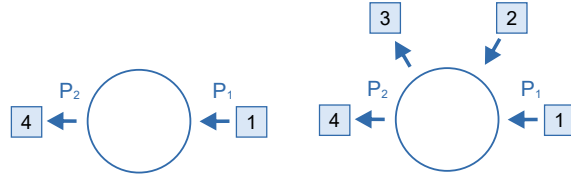
Type:	single-stage
Inlet pressure P ₁ :	Brass: max. 400 bar SS 316L: max. 400/700 bar
Outlet pressure P ₂ :	35/50/100/200//400 bar
Materials	
Body regulator, relief valve:	see ordering info
Main Valve seat:	Vespel®
Vent Valve seat:	PCTFE
Piston:	SS 316L
O-ring:	Viton® (FKM)
(option)	Kalrez® (FFKM)
Filter:	SS 316L
Inlets and Outlets:	1/4" NPT(F)
Temperature range:	-30°C to +74°C
Leak rate	Bubble-tight
Flow capacity:	C _v =0.06
Weight:	2.20 kg

Flow Chart



Druckminderer selbstentlüftend / High Pressure Self-venting Regulator VSR-8 Series

Ordering Information



Inlets / Outlets

F4: 1/4"NPT(F)	6M: 6mm Tube fitting	B: Plug
M4: 1/4"NPT(M)	8M: 8mm Tube fitting	
02: 1/8" Tube fitting	TW6M: 6mm Weld tube	
04: 1/4" Tube fitting	TW8M: 8mm Weld tube	
06: 3/8" Tube fitting	P: Gauge(Psig/bar)	

* Other connection standard, consult factory.

Port Selection

VSR - 8S - 400 - 200 - 1 - 2 - 3 - 4 - N2 - X

Body Material

S: 316L
C: Chrome Plated Brass

Inlet Pressure P₁

400: 400 bar (Brass / 316L)
700: 700 bar (316L)

Outlet Pressure P₂

35: to 35 bar
50: to 50 bar
100: to 100 bar
200: to 200 bar
300: to 300 bar
400: to 400 bar

Option

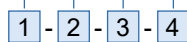
X: Non self-venting

Type of Gas

Please specify type of gas

Ordering Example

Example: VSR - 8C - 400 - 200 - F4 - F4 - F4 - F4 - N2 - X



* For mixed gases, please specify cylinder connection standard and thread when ordering.

Manifold Regulators / Vielfältige Regulatoren

VSR-36 Series

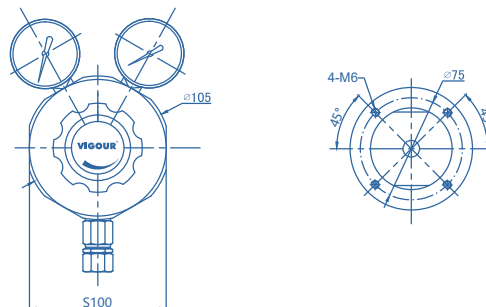
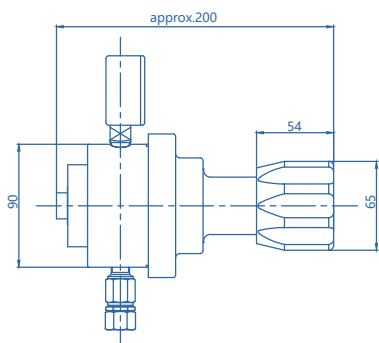
Product Features

- Pressure regulator, piston type
- Brass body for inert, reactive, flammable and oxidizing gas and mixtures up to grade 6.0
- Stainless steel 316L body for corrosive gases
- 5 ports flexible configuration
- Stable outlet pressure
- Simple outlet pressure limitation by handwheel
- Inlet filter
- Tested for use with oxygen

Typical Applications

- Component Testing
- Manifold Systems
- Laboratory Pressure Control
- High Pressure Sampling Systems
- Service & Test Equipment

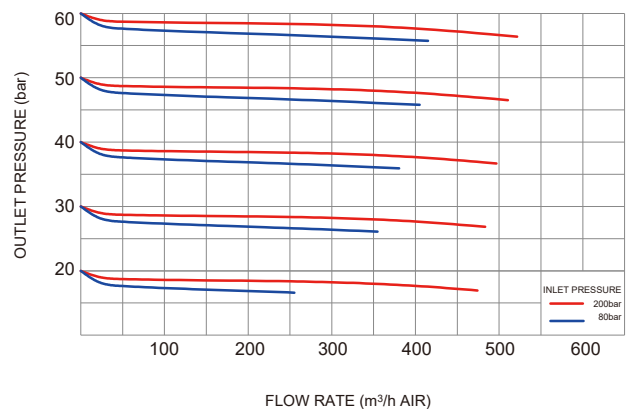
Dimensions (mm)



Technical Data

Type:	single-stage
Inlet pressure P ₁ :	max. 300 bar
Outlet pressure P ₂ :	20/40/60 bar
Materials	
Body regulator, relief valve:	see ordering info
Valve seat:	PA66
Filter:	SS 316L
O-ring:	Viton® (FKM)
Inlets and Outlets:	see ordering info
Temperature range:	-30°C to +74°C
Leak rate	bubble-tight
Flow capacity:	C _v =2.0
Weight:	5.5 kg

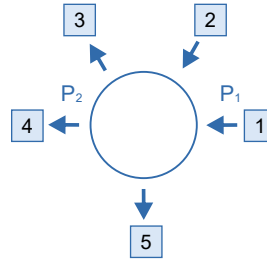
Flow Chart



Vielfältige Regulatoren / Manifold Regulators

VSR-36 Series

Ordering Information



Inlets / Outlets

F4: 1/4"NPT(F) [gauge ports]
 F6: 3/8"NPT(F)
 F8: 1/2"NPT(F)
 F12: 3/4"NPT(F)

P: Gauge (Psig/bar)
 B: Plug
 R: Relief valve

* Other connection standard, consult factory.

Port Selection

VSR - 36S - 200 - 20 - 1 - 2 - 3 - 4 - 5 - N₂

Body Material

S: 316L
 C: chrome plated brass

Outlet Pressure P₂

20: to 20 bar
 40: to 40 bar
 60: to 60 bar

Type of Gas

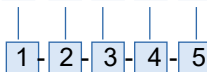
Please specify type of gas

Inlet Pressure P₁

40: 40 bar
 100: 100 bar
 200: 200 bar
 300: 300 bar

Ordering Example

Example: VSR - 36S - 200 - 20 - F6 - P - P - F6 - B - N₂



* For mixed gases, please specify cylinder connection standard and thread when ordering.

Hydrogen Pressure Regulator / Wasserstoffdruckregler

VSR-9 Series

Product Feature

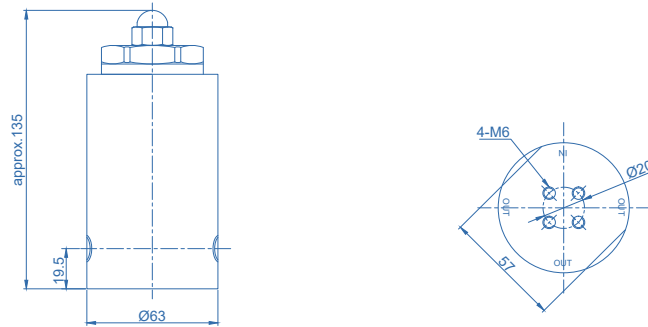
- Piston-sensed design provides a long service life and enhanced safety
- High flow and minimal flow droop
- Balanced valve design minimizes supply pressure effect
- Used in diverse applications for a broad range of temperatures, flows, and pressures
- Wide variety of preset outlet pressures are available
- 10 micron, 316 Stainless Steel filter



Typical Applications

- Hydrogen fuel cell vehicles

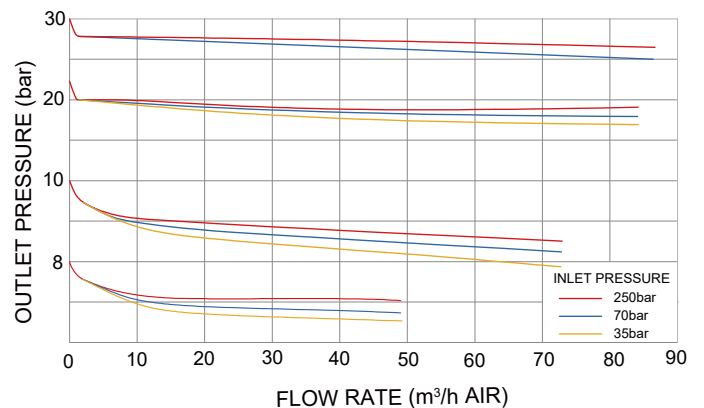
Dimensions(mm)



Technical Data

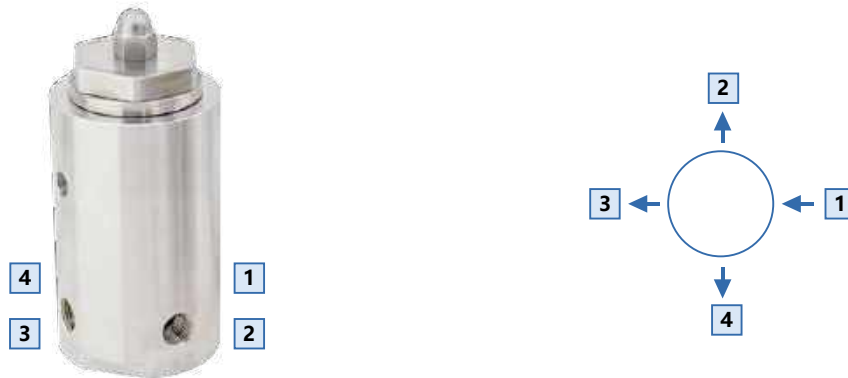
Maximum Inlet Pressure	350 bar / 700 bar
Maximum Outlet Pressure	30 bar
Materials	
Body:	SS 316L / Aluminium
Seat:	Vespe [®]
O-Rings:	EPDM
Main Valve:	316 stainless steel
Sensor:	Aluminum 6061-T6
Spring:	302 stainless steel
Filter:	10 micron 316 stainless steel
Leakage	Bubble-tight
Operating Temperature	-40°F to 185°F (-40°C to 85°C)
Flow Capacity	Cv = 0.50
Weight:	2.4Kg

Flowchart



Wasserstoffdruckregler / Hydrogen Pressure Regulator VSR-9 Series

Ordering Information



Inlet/Outlet Connections

F4: 1/4" NPT(F)

F6: 3/8" NPT(F)

F8: 1/2" NPT(F)

A4: 1/4" SAE

A6: 3/8" SAE

A8: 1/2" SAE

P: gauge

* Other connection standard, consult factory

Port Selection

VSR - 9S - 350 - 8 - 1 - 2 - 3 - 4

Material

S: 316L

A: Aluminum

Inlet Pressure

350: 350 bar

700: 700 bar

Outlet Pressure

8: to 8 bar

10: to 10 bar

20: to 20 bar

30: to 30 bar

Ordering Example

VSR - 9S - 350 - 8 - F4 - F4 - F4 - F4
1 - 2 - 3 - 4

