

# REDLINE® C 200hv/2 Two-stage cylinder pressure regulator

#### Description

C 200hv/2 is a two-stage diaphragm pressure regulator, especially suitable for non-corrosive gases up to 6.0 purity (99.9999%) as well as gas mixtures with a low concentration of corrosive components.

The regulator is designed to reduce the inlet pressure to very low outlet pressures and can regulate low pressures very precisely. The regulator also has a vacuum dosing capability down to 0.1 bar abs. C 200hv/2 can be plain or equipped with a shut-off valve (type A) or a metering valve (type B).

Product name	Material	bar	psi	Art. Nr
C 200hv/2	Chrome-plated brass	0.2 - 2	3 – 29	5441
C 200hv/2	Chrome-plated brass	0.2 - 3	3 - 44	5442
C 200hv/2	Stainless steel	0.2 - 2	3 – 29	5447
C 200hv/2	Stainless steel	0.2 - 3	3 - 44	5448
C 200hv/2 A	Chrome-plated brass	0.2 - 2	3 – 29	5443
C 200hv/2 A	Chrome-plated brass	0.2 - 3	3 - 44	5444
C 200hv/2 A	Stainless steel	0.2 - 2	3 – 29	5449
C 200hv/2 A	Stainless steel	0.2 - 2	3 – 29	5450
C 200hv/2 B	Chrome-plated brass	0.2 - 2	3 - 29	5445
C 200hv/2 B	Chrome-plated brass	0.2 - 3	3 - 44	5446
C 200hv/2 B	Stainless steel	0.2 - 2	3 – 29	5451
C 200hv/2 B	Stainless steel	0.2 - 3	3 - 44	5452

# Delivery and ordering information

Cylinder pressure regulator with cylinder connection (manual connection) according to DIN 477 on the high-pressure side and compression fitting 6 mm on the service gas outlet. In addition to the article number, please specify the type of gas. Other configurations on request.

#### Application

Suitable for all applications requiring non-corrosive high-purity gases and gas mixtures at pressures below 1 bar (abs) or in a pressure range from 0 to 3 bar (abs.) with high control accuracy. For all applications in analysis, as well as research and development, where high demands in gas purity, accuracy, reliability are required. The pressure regulator must not be used as a shut-off device. The version with a shut-off valve allows the gas flow to be shut off / opened while maintaining the pressure setting. The design with a needle valve allows additional metering of the gas flow.

#### Technical Data

bar	psi	
230	3336	
0.2 - 2 (abs.)	3 – 29 (abs.)	
0.2 - 3 (abs.)	3 – 44 (abs.)	
-1 - 1.5	-15 - 22	
-1 – 5	-15 - 73	
≤ 6.0 (99.9999%)		
≤10 <sup>-9</sup> mbar l/s He to the outside		
≤5x10 <sup>-6</sup> mbar l/s He in the seat		
6 x NPT 1/4" f		
Compression fitting 6 mm		
Connection according to DIN 477		
NPT 1/4" f		
Constant outlet pressure when the inlet pressure drops		
from 200 bar to 0 bar		
Cv = 0.06		
	230  0.2 - 2 (abs.)  0.2 - 3 (abs.)  -1 - 1.5  -1 - 5  ≤ 6.0 (99.9999%)  ≤10-9 mbar I/s He to the outs ≤5x10-6 mbar I/s He in the so  6 x NPT 1/4" f  Compression fitting 6 mm  Connection according to DIN  NPT 1/4" f  Constant outlet pressure who from 200 bar to 0 bar	



Materials				
- Casing	Cr-plated brass	SS 316L		
- Housing seal	PVDF	PCTFE		
- Membrane	Hastelloy®			
- Seat seal	PCTFE			
- Seal relief valve	FKM / EPDM	(according to gas type)		
Operating temperature	-20°C +60°C	-4°F +140°F		
Particle filer	Inlet 10 µm	Outlet 100 µm		
Valves	Diaphragm shut-off valve V 200 (Type A)			
Diaphragm control valve V50 (Type B)		e V50 (Type B)		
Cylinder connection	DIN 477 (other connect	DIN 477 (other connections on request)		
Weight	3.33 kg max.	7.34 lb max.		

#### Other accessories

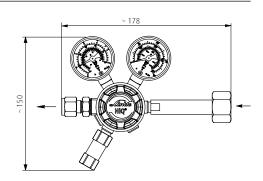
Gas type-specific manual connection, brass or stainless-steel compression fittings from 3 to 12 mm or 1/8" to 1/2" for service gas and relief valve outlet, contact pressure gauge.

#### Quality Assurance

The cylinder pressure regulator C 200hv/2 is manufactured in accordance with the following international standards: ISO 9001, ISO 2503, EN ISO 5171, EN ISO 7291 (including oxygen burnout test for brass-chrome-plated fittings). Every step, from design to final test, is subject to one Quality Management System.

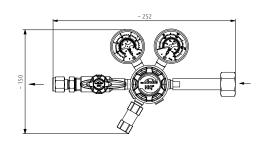
# C 200hv/2





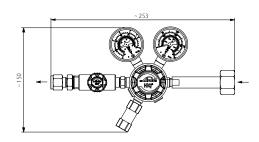
# C 200hv/2 A



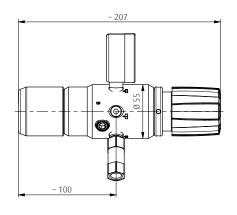


### C 200hv/2 B



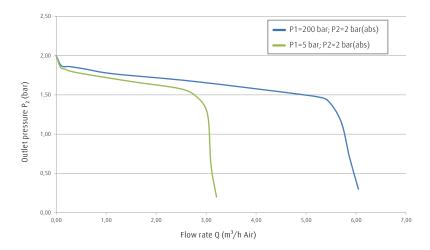


C 200hv/2 Side view



All dimensions in millimiters

#### 200hv/2 - 2 bar (abs.)



## 200hv/2 - 3 bar (abs.)

