



REDLINE® W 50

Point of use – Wall design

Description W 50 is a diaphragm single-stage pressure regulator designed for wall installation. It is 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 W 50 is equipped with shut-off valve and detachable connection between pre-shut-off and pressure regulator.

Product name	Material	bar	psi	Art. Nr
W 50 B	Chrome-plated brass	0.1 – 1	1.5 – 15	7200
W 50 B	Chrome-plated brass	0.5 – 6	7 – 87	7201
W 50 B	Chrome-plated brass	0.5 – 10.5	7 – 152	7202
W 50 B	Stainless steel	0.1 – 1	1.5 – 15	7203
W 50 B	Stainless steel	0.5 – 6	7 – 87	7204
W 50 B	Stainless steel	0.5 – 10.5	7 – 152	7205

Delivery and ordering information Withdrawal pressure regulator with back pressure manometer and diaphragm shut-off valve on wall bracket. In addition to the article number, please specify the type of gas. Other configurations on request.

Application For all applications in analysis, as well as research and development, where high demands in gas purity, accuracy, reliability are required. Used as a second pressure stage in a central gas supply system.

Technical Data

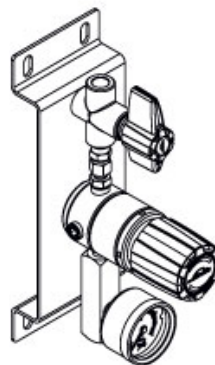
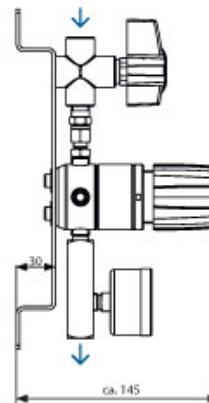
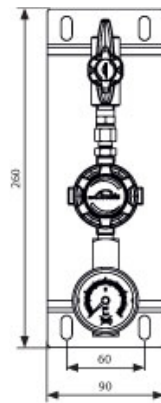
	bar	psi
Maximum primary pressure	40	580
Outlet pressure range	0.1 – 1	1.5 – 15
	0.5 – 6	7 – 87
	0.5 – 10.5	7 – 152
Outlet gauge range	0 – 2.5	0 – 36
	0 – 6	0 – 87
	0 – 16	0 – 232
Gas purity	≤ 6.0 (99.9999%)	
Leak rate	≤ 10 ⁻⁹ mbar l/s He to the outside	
	≤ 10 ⁻⁶ mbar l/s He in the seat	
Connections		
- Pressure reducer body	4 x NPT 1/4" f	
- cylinder pressure regulator		
- Service gas outlet	NPT 1/4" f	
- High pressure inlet	NPT 1/4" f	
Flow coefficient	Cv = 0.106	
Materials		
- Casing	Cr-plated brass	Stainless steel 316L
- Housing seal	PVDF	PCTFE
- Membrane	Hastelloy®	
- Seat seal	PTFE	
Operating temperature	-20°C ... +70°C	-4°F ... +158°F
Particle filter	Inlet 100 µm	
Valves	Diaphragm shut-off valve V 200	
Weight	0.8 kg max.	1.8 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.

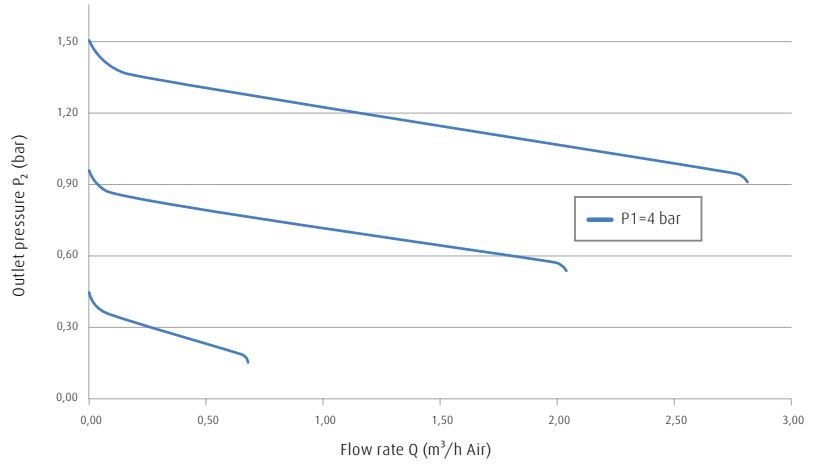
Quality Assurance The point of use W 50 is manufactured in accordance with the following international standards: ISO 9001, EN ISO 5171, EN ISO 7291 (including oxygen burnout test for brass-chrome-plated fittings). Every step, from design to final test, is subject to one Quality Management System.

W 50 B

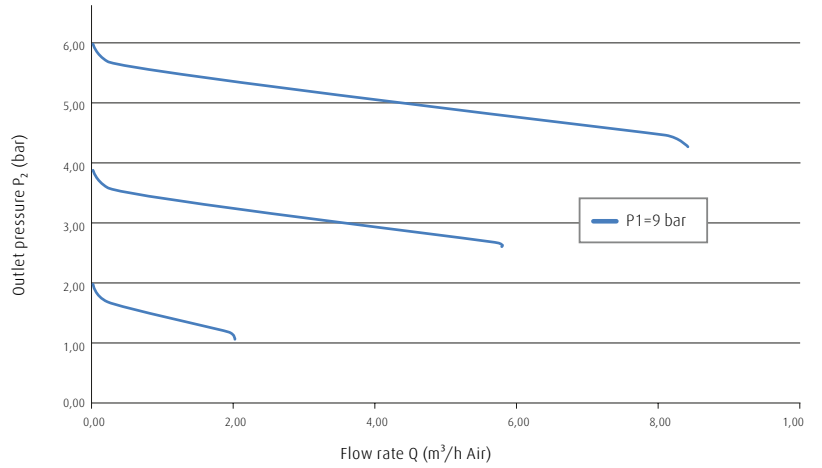


All dimensions in millimeters

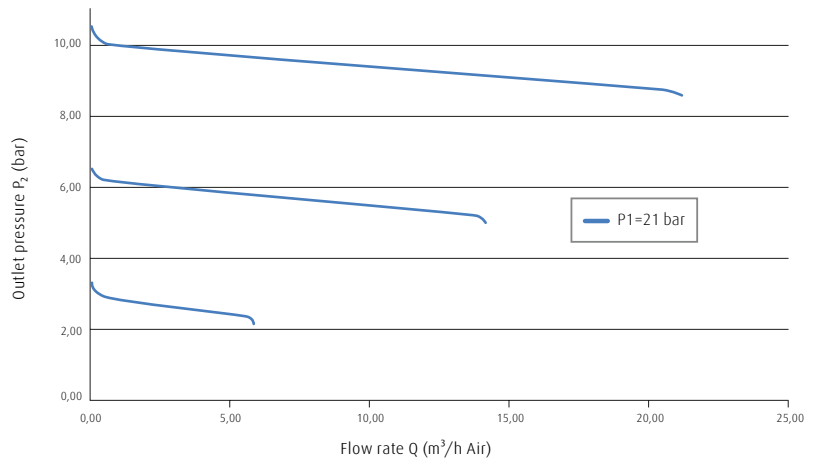
W 50 – 1 bar



W 50 – 6 bar



W 50 – 10.5 bar



Linde GmbH
Dr.-Carl-von-Linde-Strasse 6-14, 82049 Pullach, Germany
Phone +49 89 7446-0, Fax +49 89 7446-1230, <http://hiq.linde-gas.com>