



REDLINE® B 40

Point of use – Bench design

Description B 40 is a point of use designed for bench 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 B 40 can be equipped as a shut-off valve (type A), as a regulator with a shut-off valve (type B), or as a regulator with a shut-off and control valve (type C).

Product name	Material	bar	psi	Art. Nr
B 40 A	Chrome-plated brass	-	-	3261
B 40 A	Stainless steel	-	-	3262
B 40 B	Chrome-plated brass	0.1 – 1	1.5 – 15	3263
B 40 B	Chrome-plated brass	0.5 – 6	7 – 87	3265
B 40 B	Chrome-plated brass	0.5 – 10.5	7 – 152	3267
B 40 B	Stainless steel	0.1 – 1	1.5 – 15	3264
B 40 B	Stainless steel	0.5 – 6	7 – 87	3266
B 40 B	Stainless steel	0.5 – 10.5	7 – 152	3268
B 40 C	Chrome-plated brass	0.1 – 1	1.5 – 15	3269
B 40 C	Chrome-plated brass	0.5 – 6	7 – 87	3271
B 40 C	Chrome-plated brass	0.5 – 10.5	7 – 152	3273
B 40 C	Stainless steel	0.1 – 1	1.5 – 15	3270
B 40 C	Stainless steel	0.5 – 6	7 – 87	3272
B 40 C	Stainless steel	0.5 – 10.5	7 – 152	3274

Delivery and ordering information

B 40 A: shut-off valve V 40 SE and compression fitting 10 mm in the high-pressure inlet. B 40 B: shut-off valve V 40 SE, extraction pressure regulator, compression fitting 10 mm in the high-pressure inlet and compression fitting 6 mm in the service gas outlet. B 40 C: shut-off valve V 40 SE, extraction pressure reducer, diaphragm control valve V 50 SE, compression fitting 10 mm in the high-pressure inlet and compression fitting 6 mm in 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 in analysis, as well as research and development, where high demands in gas purity, accuracy, reliability are required. Used as a second pressure reducer 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	

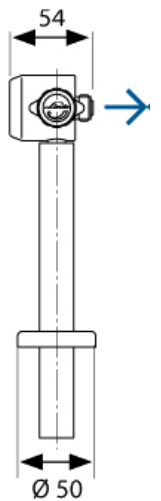
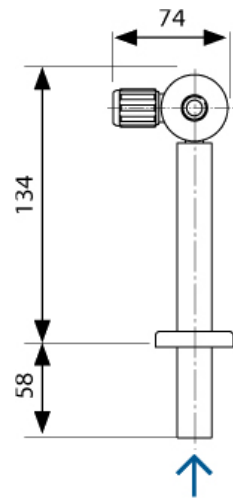


Connections		
- Pressure reducer body	1 x G 3/8" f, 4 x G 1/4" f	
- cylinder pressure regulator		
- Service gas outlet	Compression fitting 6 mm	
- High pressure inlet	Compression fitting 10 mm	
Flow coefficient	Cv = 0.106	
Materials		
- Casing	Cr-plated brass	Stainless steel 316L
- Housing seal	PVDF	
- Membrane	Hastelloy®	
- Seat seal	FKM/EPDM	
Operating temperature	-20°C ... +70°C	-4°F ... +158°F
Particle filter	Inlet 100 µm	
Valves	Diaphragm shut-off valve V 40 SE (All types) Diaphragm control valve V 50 SE (Type C)	
Weight	1.9 kg max.	4.2 lb max.

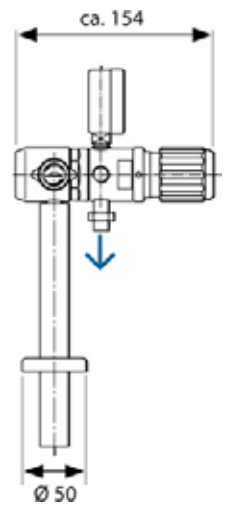
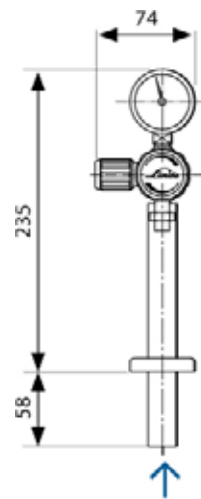
Other accessories Gas type-specific manual connection, brass or stainless-steel compression fittings from 3 to 12 mm or 1/8" to 1/2" for service gas and relief valve outlet, contact pressure gauge.

Quality Assurance The point of use B 40 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.

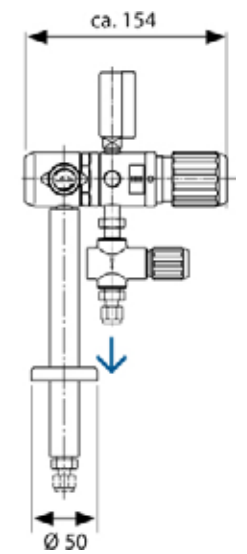
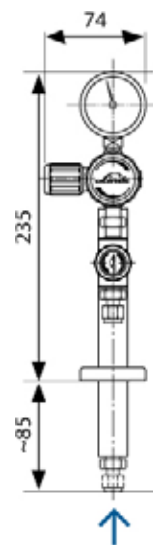
B 40 A



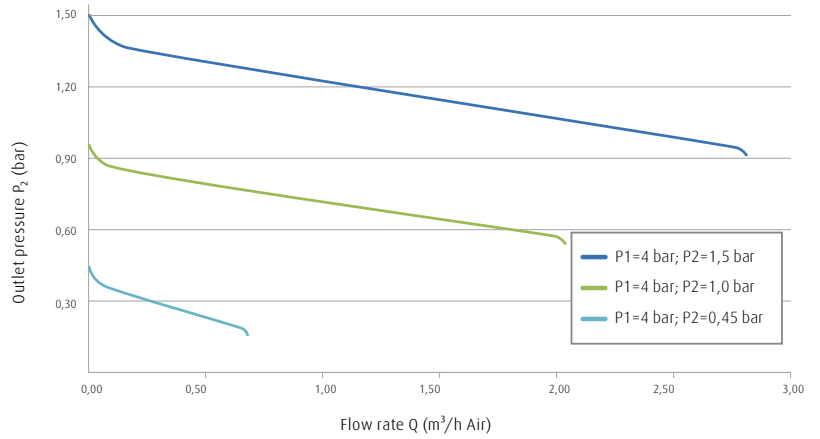
B 40 B



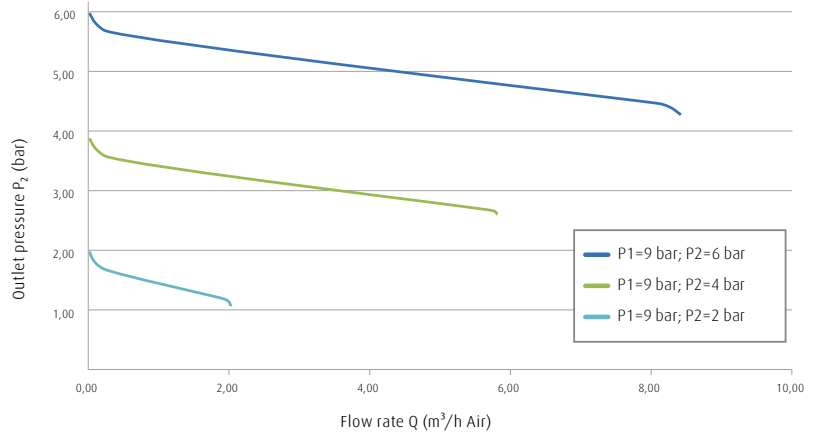
B 40 C



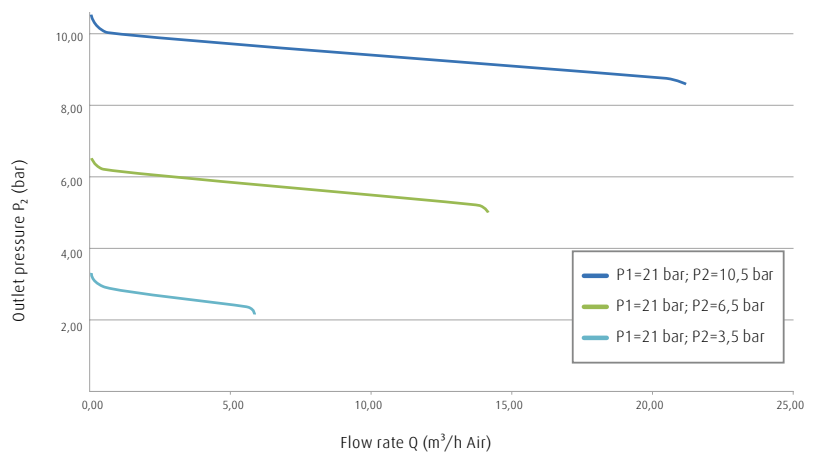
B 40 – 1 bar



B 40 – 6 bar



B 40 – 10.5 bar



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