



# REDLINE® V 50

## Control valve

**Description** V 50 is a diaphragm control valve 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 V50 is available as an angle valve (type BE) or straight-way valve (TYPE SE).

Product name	Material	bar	psi	Art. Nr
V 50 BE	Chrome-plated brass	50	725	3368
V 50 BE	Stainless steel	50	725	3369
V 50 SE	Chrome-plated brass	50	725	3370
V 50 SE	Stainless steel	50	725	3371

**Delivery and ordering information** Diaphragm control valve including particle filter without inlet and outlet screw connection. In addition to the article number, please specify the type of gas. Other configurations on request.

**Application** V 50 is used for flow regulation in pipelines of a central gas supply system or after a pressure regulator.

**Technical Data**

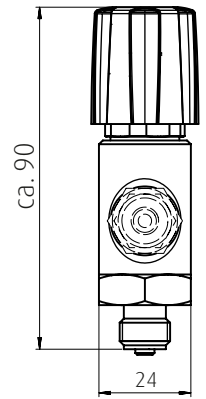
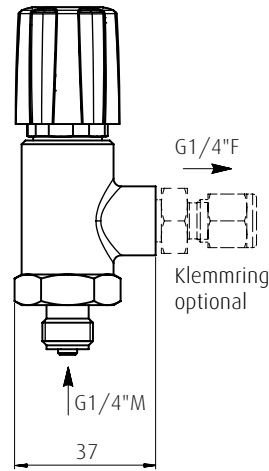
	bar	psi
Maximum primary pressure	50 (40 for O <sub>2</sub> )	725 (580 for O <sub>2</sub> )
Gas purity	≤ 6.0 (99.9999%)	
Leak rate	≤10 <sup>-7</sup> mbar l/s He to the outside ≤10 <sup>-4</sup> mbar l/s He in the seat	
Connections	BE	SE
- Inlet	G 1/4" m	NPT 1/4" f
- Outlet	G 1/4" f	NPT 1/4" f
Flow coefficient	Cv < 0.023 – Kv < 0.020	
Materials		
- Casing	Cr-plated brass	Stainless steel 316L
- Membrane (BE & SE)	Hastelloy®	
- Seat seal	PCTFE (BE)	Stainless steel (SE)
Operating temperature	-20°C ... +60°C	-4°F ... +140°F
Particle filter	Inlet 100 µm Outlet 100 µm	
Weight	0.3 kg max.	0.7 lb max.
Suitable for vacuum	Yes	

**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.

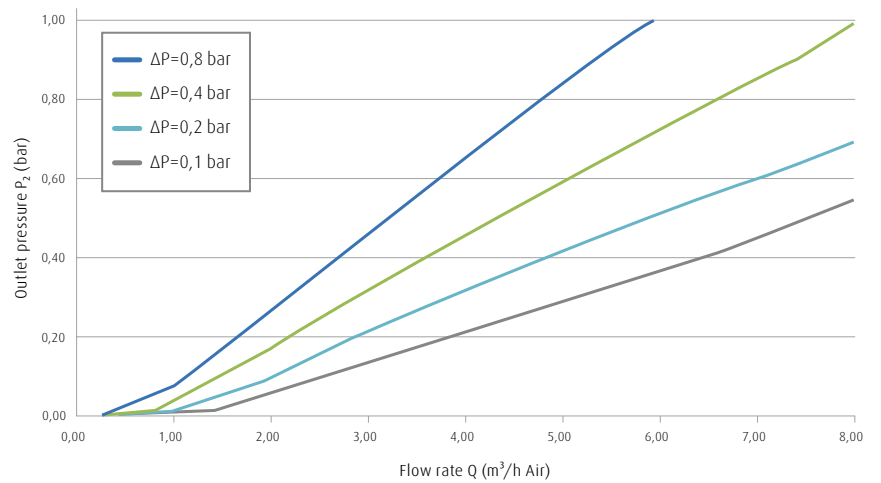
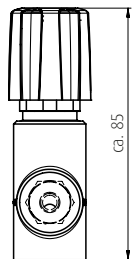
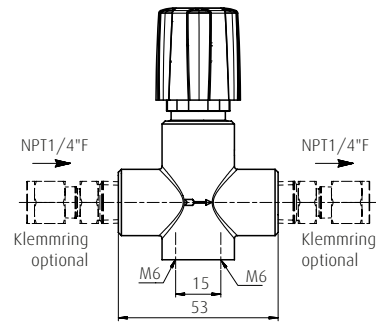
**Quality Assurance** The diaphragm shut-off valve V 50 is manufactured, tested and delivered in accordance with the following international standards: ISO 900. Suitable for oxygen applications (chrome-plated brass fittings and stainless-steel fittings).



V 50 BE



V 50 SE



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