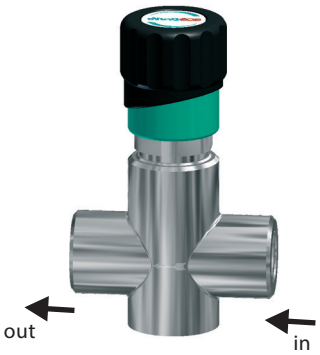
DIAPHRAGM REGULATING VALVES MVR-A 500 G



For inert, reactive, flammable and oxidizing gases and gas mixtures, purity max. 6.0, inlet pressure: 50 bar / 600 psi oxygen (O2): 40 bar / 725 psi

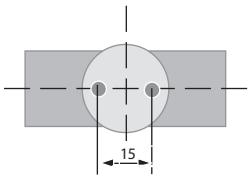
SPECIAL FEATURES

- Very fine gas flow adjustment
- Wide flow rate range for high and low pressure applications
- Hardened stainless steel cone for a longer life span
- High leak tightness through appropriate diaphragm construction
- Very easily purged
- With shut-off function (leak tightness 1×10^{-6} mbar l/s Helium)

DESCRIPTION

The regulating valve MVR 500 has a very good regulating characteristic and is very finely adjustable both by greater as also by lesser flow rate values. Space saving through integrated shut-off function, since only one valve is required.

MOUNTING



The valve has 2 bore holes M6 on the bottom.

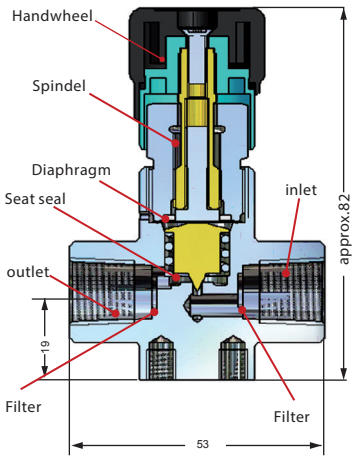
APPLICATION

As a system component in and low pressure areas. As accessory for cylinder and point-of-use regulators for fine adjustment of the gas flow. As system element in apparatus and analytical equipment.

TECHNICAL DATA

Body:	Stainless steel 1.4404 specially cleaned and electro-polished or brass
	CW614 (CuZn39Pb3) specially cleaned, nickel-plated and chrome-plated
Body seals:	hardened stainless steel cone
Diaphragm:	Hastelloy
Leakage rate:	< 1×10^{-6} mbar l/s Helium (seat)
	< 1×10^{-9} mbar l/s Helium (outboard)
Nominal width:	DN 2
Dimensions (w×h×d):	approx. 53×82×40 mm
Working temperature:	-25° to 70°C / -13 °F to 158 °F
K_v-value:	< 0.02
Filter:	100 µm mesh on inlet and outlet
Vacuum capable:	yes
Operation:	adjustment knob with approx. 10 turns
Weight:	approx. 280 g
Inlet/Outlet:	NPT 1/4"f, optional tube fitting

CROSS SECTION



ORDER CODE

Type	Material	Upstream pressure	Inlet	Outlet	Gas type
MVR-A 500 G	**BC**	**E**	**CL6 BC**	**CL6 BC**	**GAS**
MVR-A 500 G	BC = brass chrome-plated SS = stainless steel	E= 40 bar/600 psi oxygen (O2) E = 50 bar/725 psi	0=NPT 1/4"f CL6* CL8 CL10 CL12 BC = brass chrome-plated SS = stainless steel	0=NPT 1/4"f CL6* CL8 CL10 CL12 BC = brass chrome-plated SS = stainless steel	Please specify

* Outlet: CL6 = tube fitting for tube 6 mm, (0 = without). Please note the "burst rate chart" when choosing the tube fittings in chapter 5.

Subject to change without notice