

Line pressure regulator LT71



Line pressure regulator LT71-50-10-NFG

Product features

- Ergonomically designed line pressure regulator
- For non corrosive technical gases
- Single-stage type with high control accuracy
- Hastelloy diaphragm
- Simple outlet pressure limitation by handwheel
- Safety pressure gauge acc. to DIN EN ISO 5171
- Compact design

Technische Daten

Type	single-stage
Inlet pressure P_1	max. 50 bar
Outlet pressure P_2	max. 1,5 / 4 / 10 bar
Materials	
Body:	brass
Diaphragm:	Hastelloy C276
Valve cone:	stainless steel 1.4404
Valve seat:	PTFE
Connectors	
In- / outlet:	1/2"-NPT female
Pressure gauge ports:	1/4"-NPT female
Temperature range	-20°C to +60°C
Leak rate	$\leq 10^{-4}$ mbar l/s He
Weight	ca. 1,5 kg

Flow rates Q [m³/h] Nitrogen

The table below indicates approximate values for the flow rate in standard cubic meters of nitrogen at the indicated operating conditions. The flow rates for other gas types may be calculated using the conversion factors from the table on the right.

For detailed flow rate calculations please refer to our data sheet "Performance diagram".

Inlet pressure P_1	Flow rate Q at P_2 [bar]			
[bar]	1,5	4	7	10
50	35	70	100	150
20	35	65	70	100
10	30	40	-	-
5	20	-	-	-

Conversion factors

Gas type	factor
Argon	0,83
Helium	2,64
Carbon dioxide	0,79
Air	0,98
Hydrogen	3,71

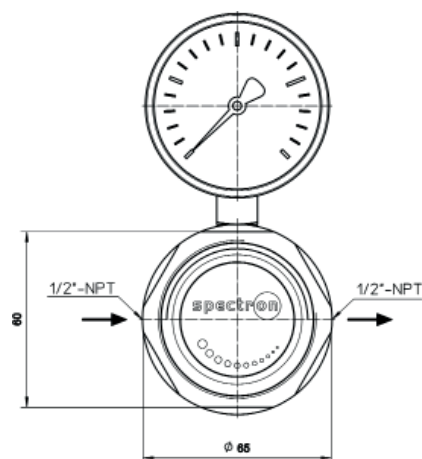
Performance factor $L_{10} = 5,5$

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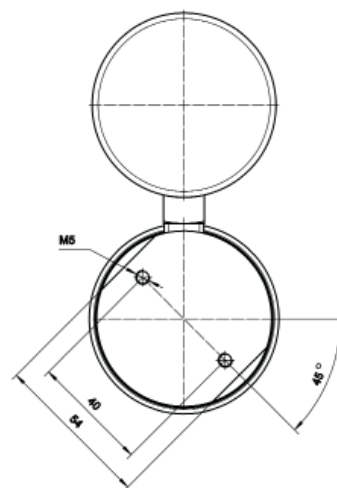


Dimensions

front and side view



rear view / mounting



Ordering information: Pressure regulator LT71

LT71 - L - 50 - 10 - M - NFG

Inlet

- L** left (standard)
- R** right

Inlet pressure P_1

- 50** max. 50 bar

Outlet pressure P_2

- 1,5** max. 1,5 bar
- 4** max. 4 bar
- 10** max. 10 bar

Gas type

- NFG** non flammable gases
- FG** flammable gases
- O2** oxygen

Outlet pressure indication

- M** pressure gauge
- K** contact pressure gauge
- PT** pressure transmitter