

## LINE PRESSURE REGULATORS LMD 502-03/-05



**Dual-stage,  
for inert, reactive, flammable and oxidizing gases and  
gas mixtures,  
purity max. 6.0  
inlet pressure 230 bar / 3300 psi,  
downstream pressure range 0.2 - 10.5 bar / 3 - 150 psi**

### SPECIAL FEATURES

- Downstream pressure is independent of upstream pressure
- Precise pressure allocation
- Space saving multi-connection possibilities

### DESCRIPTION

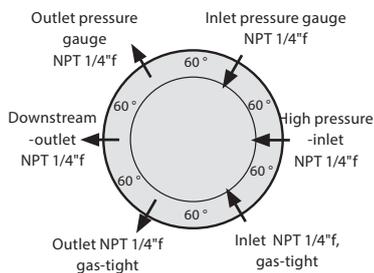
This pressure regulator reduces the upstream pressure to a lower downstream pressure. The dual-stage design ensures the uniformity of the downstream pressure irrespectively of the upstream pressure. The use of contact gauge (accessories) in conjunction with alarm box (accessories) facilitates the monitoring of gas reserves. A broad application spectrum through the the multiple inlet/outlet connections.

### APPLICATION

The LMD 502-03 stands out for its precise pressure allocation, minimum space requirement and uniformity of downstream pressure. For this reason this series is particularly suited to high-performance and stabl gas supply as would be needed for analytical applications or where space saving pressure regulating with short connection ways to point-of-use outlets are required.



### CONNECTIONS (FRONT VIEW)



### TECHNICAL DATA

Body:	stainless steel 316L (1.4404) specially cleaned and electro-polished or brass
	CW614 (CuZn39Pb3) specially cleaned, nickel-plated and chrome-plated
Seat seals 1st stage:	PCTFE
Seat seals 2nd stage:	PTFE
Body seals:	PCTFE (Stainless steel), PTFE (Brass)
Relief valve seat seals:	Stainless steel: FKM, (EPDM, FFKM)* Brass: EPDM, (FKM)*
Performance data:	see chapter 5
Basic design aspects:	see page 13
Pressure gauge range:	-1 - 5 bar (-15 - 75 psi) -1 - 10 bar (-15 - 145 psi) -1 - 18 bar (-15 - 260 psi) 0 - 315 bar (0 - 4500 psi)
Weight:	approx. 1.8kg (type-03), 1.9kg (type-05)
Dimensions (w×h×d):	approx. 115×140×199 to 211 mm
Inlet-/Outlet:	NPT 1/4" f, optional tube fitting

\* on request

### ORDER CODE

Type	Material	Upstream pressure	Downstream pressure	Inlet	Outlet	Contact gauge	Gas type
<b>LMD 502-03</b>	<b>BC</b>	<b>F</b>	<b>3</b>	<b>CL6 BC</b>	<b>CL6 BC</b>	<b>Ki</b>	<b>GAS</b>
LMD 502-03	BC = brass	F = 230 bar	1 = 0.2 - 1 bar	0 = NPT 1/4" f	0 = NPT 1/4" f	0 = without	Please
LMD 502-05	chrome-plated	/ 3300 psi	/ 3 - 15 psi	CL6**	CL6**	Ki = with	specify
	SS = stainless steel		3 = 0.2 - 3 bar	CL8	CL8		
			/ 3 - 45 psi	CL10	CL10		
			6 = 0.5 - 6 bar / 7 - 85 psi	CL12	CL12		
			10 = 1 - 10.5 bar / 15	BC = brass	BC = brass chrome-plated		
			- 150 psi	chrome-plated	plated		
				SS = stainless steel	SS = stainless steel		

Subject to change without notice

\*\* Outlet: CL6 = tube fitting for 6 mm outside diameter, NO6 = hose connector for 6 mm hose inside diameter. Please note the "burst rate chart" when choosing the tube fittings in chapter 5.