



REDLINE® D 300

Double gas panel for cylinder/bundle – Manual change-over

Description

D 300 is a double gas panel with diaphragm single-stage pressure regulator, 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 gas supply is uninterrupted during cylinder changes. Switch-over is done manually. It is designed for single cylinders or bundle and can work up to 300 bar.

Product name	Material	bar	psi	Art. Nr
Version with connection coil:				
D 300	Chrome-plated brass	0.5 – 6	7 – 87	7355
D 300	Chrome-plated brass	1 – 10	15 – 145	7356
D 300	Chrome-plated brass	1 – 14	15 – 203	7248
D 300	Chrome-plated brass	2.5 – 28	36 – 406	7357
D 300	Chrome-plated brass	2.5 – 50	36 – 725	7249
D 300	Chrome-plated brass	10 – 100	145 – 1450	7358
D 300	Chrome-plated brass	10 – 200	145 – 2900	7359
D 300	Stainless steel	0.5 – 6	7 – 87	7383
D 300	Stainless steel	1 – 10	15 – 145	7384
D 300	Stainless steel	1 – 14	15 – 203	7385
D 300	Stainless steel	2.5 – 28	36 – 406	7386
Version with bundle hose:				
D 300	Chrome-plated brass	0.5 – 6	7 – 87	7360
D 300	Chrome-plated brass	1 – 10	15 – 145	7361
D 300	Chrome-plated brass	1 – 14	15 – 203	7250
D 300	Chrome-plated brass	2.5 – 28	36 – 406	7362
D 300	Chrome-plated brass	2.5 – 50	36 – 725	7251
D 300	Chrome-plated brass	10 – 100	145 – 1450	7363
D 300	Chrome-plated brass	10 – 200	145 – 2900	7364
D 300	Stainless steel	0.5 – 6	7 – 87	7387
D 300	Stainless steel	1 – 10	15 – 145	7388
D 300	Stainless steel	1 – 14	15 – 203	7389
D 300	Stainless steel	2.5 – 28	36 – 406	7390
Version with connection coil and contact pressure gauge:				
D 300/C	Chrome-plated brass	0.5 – 6	7 – 87	7370
D 300/C	Chrome-plated brass	1 – 10	15 – 145	7371
D 300/C	Chrome-plated brass	1 – 14	15 – 203	7252
D 300/C	Chrome-plated brass	2.5 – 28	36 – 406	7372
D 300/C	Chrome-plated brass	2.5 – 50	36 – 725	7253
D 300/C	Chrome-plated brass	10 – 100	145 – 1450	7373
D 300/C	Chrome-plated brass	10 – 200	145 – 2900	7374
D 300/C	Stainless steel	0.5 – 6	7 – 87	7394
D 300/C	Stainless steel	1 – 10	15 – 145	7395
D 300/C	Stainless steel	1 – 14	15 – 203	7396
D 300/C	Stainless steel	2.5 – 28	36 – 406	7397
Version with bundle hose and contact pressure gauge:				
D 300/C	Chrome-plated brass	0.5 – 6	7 – 87	7375
D 300/C	Chrome-plated brass	1 – 10	15 – 145	7376
D 300/C	Chrome-plated brass	1 – 14	15 – 203	7254
D 300/C	Chrome-plated brass	2.5 – 28	36 – 406	7377
D 300/C	Chrome-plated brass	2.5 – 50	36 – 725	7255
D 300/C	Chrome-plated brass	10 – 100	145 – 1450	7378
D 300/C	Chrome-plated brass	10 – 200	145 – 2900	7379
D 300/C	Stainless steel	0.5 – 6	7 – 87	7398
D 300/C	Stainless steel	1 – 10	15 – 145	7399
D 300/C	Stainless steel	1 – 14	15 – 203	7400
D 300/C	Stainless steel	2.5 – 28	36 – 406	7401



Delivery and ordering information

Double gas panel incl. 2 highly flexible connection coils (or bundle hoses) with gas type-specific cylinder connection according to DIN 477 or ISO 5145 and compression fitting 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. Recommended for applications where the gas must be kept free of oxygen and moisture, such as ECD detectors or excimer lasers.

Technical Data

	bar	psi
Maximum primary pressure	300	4351
Outlet pressure range	0.5 – 6 1 – 10 1 – 14 2.5 – 28 2.5 – 50 10 – 100 10 – 200	7 – 87 15 – 145 15 – 200 36 – 406 36 – 725 145 – 1450 145 – 2900
Relief valve pressure	9.2 15.4 21.6 43.1 65 154 260	133 223 313 625 943 2234 3771
Outlet gauge range	-1 – 10 -1 – 18 -1 – 25 0 – 40 0 – 80 0 – 160 0 – 315	-15 – 145 -15 – 261 -15 – 363 0 – 580 0 – 1160 0 – 2320 0 – 4569
Gas purity	≤ 6.0 (99.9999%)	
Leak rate	≤10 ⁻⁹ mbar l/s He to the outside ≤5x10 ⁻⁶ mbar l/s He in the seat	
Connections		
- Pressure reducer body	6 x NPT 1/4" f	
- Panel		
- Service gas outlet	Compression fitting 10 mm	
- High pressure inlet bottle	Connection according to DIN 477 or ISO 5145	
- Relief valve outlet	NPT 1/4" f	
- Purge outlet	NPT 1/4" f	
Stability	1.5 bar outlet pressure when the inlet pressure drops from 300 bar to 0 bar	
Flow coefficient	Cv = 0.29 – Kv = 0.25	
Materials		
- Casing	Cr-plated brass	stainless steel
- Housing seal	PVDF	
- Membrane	Hastelloy®	Elgiloy®
- Seat seal	PCTFE	
Operating temperature	-20°C ... +60°C	-4°F ... +140°F
Particle filter	Inlet 10 µm	Outlet 100 µm
Valves	Diaphragm shut-off valve V 300 Diaphragm shut-off valve V 300/4_3110	
Cylinder connection	DIN 477 or ISO 5145	
Weight	6.6 kg max.	14.6 lb max.

Other accessories

Gas type-specific connection, coils, bundle hoses, brass or stainless steel compression fittings from 3 to 12 mm or 1/8" to 1/2" for service gas, purge gas and exhaust gas outlets, expansion to 2x2 to 2x4 cylinders, blow-off line, contact pressure gauge, low gas level indicator.

Benefits

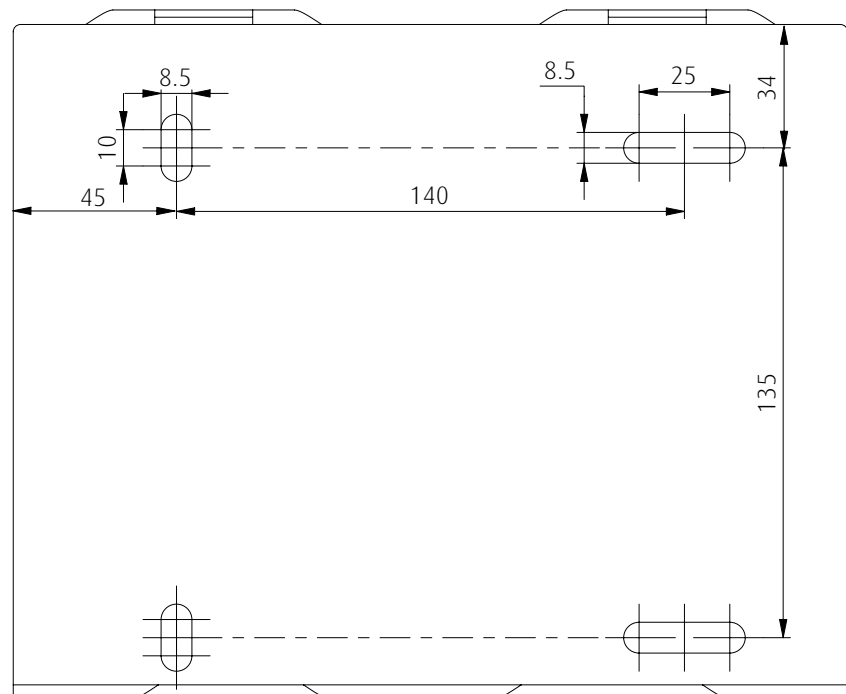
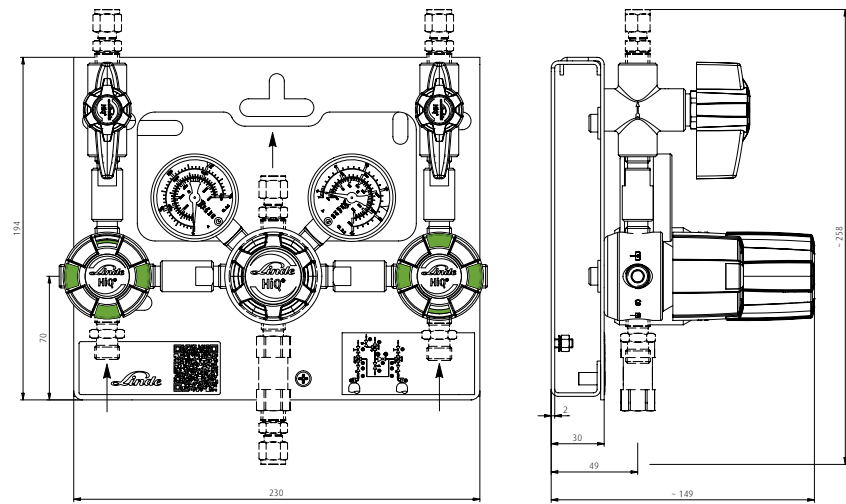
Pressure regulators made of chrome-plated brass are tested according to ISO 7291 (including oxygen burn-out test). Main shut-off valves made of chrome-plated brass have the oxygen burn-out test according to EN ISO 10297. The equipment meets the requirements of DIN EN ISO 80079-36, IEC TS 60079-32-1 and the German TRGS 727. It can be used in EX-Zone 1 and 2 for gases with explosion risk group I, IIA, IIB, IIC. Separate mounting of the base plate. Simple hooking of the pressure control panel into the base plate and secure fastening with one screw. Due to the cut-outs in the front plate, the installed pressure gauges can be changed without dismantling the panel.

D 300

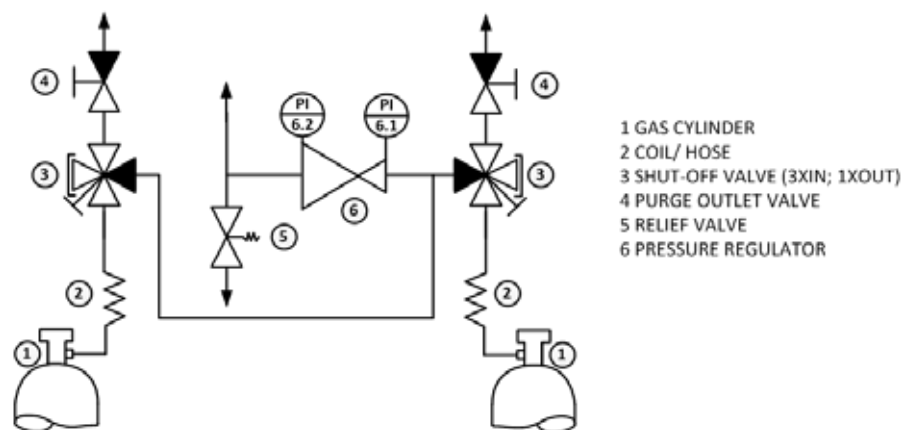


D 300/C

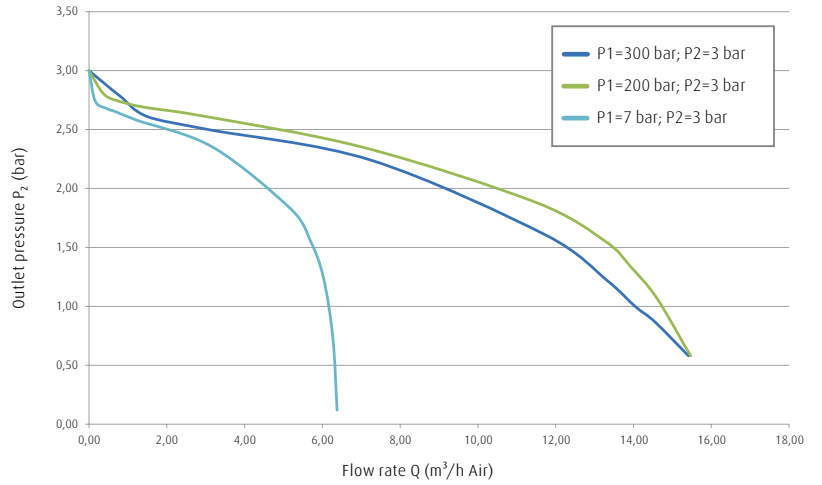




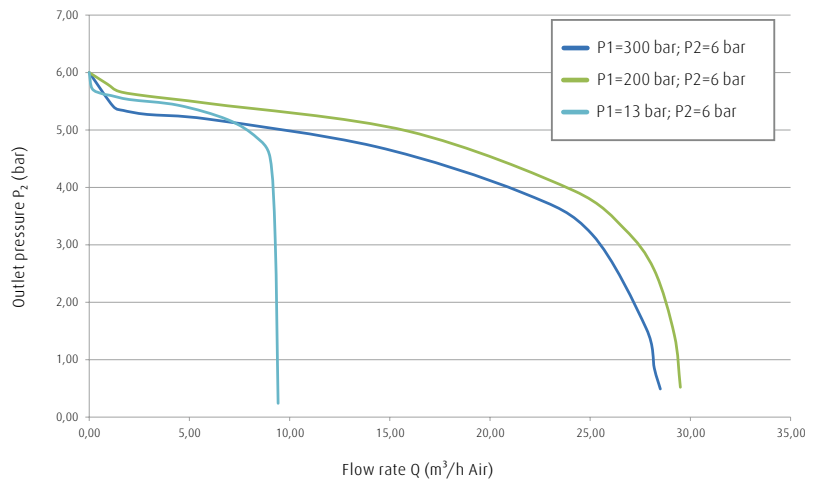
All dimensions in millimeters



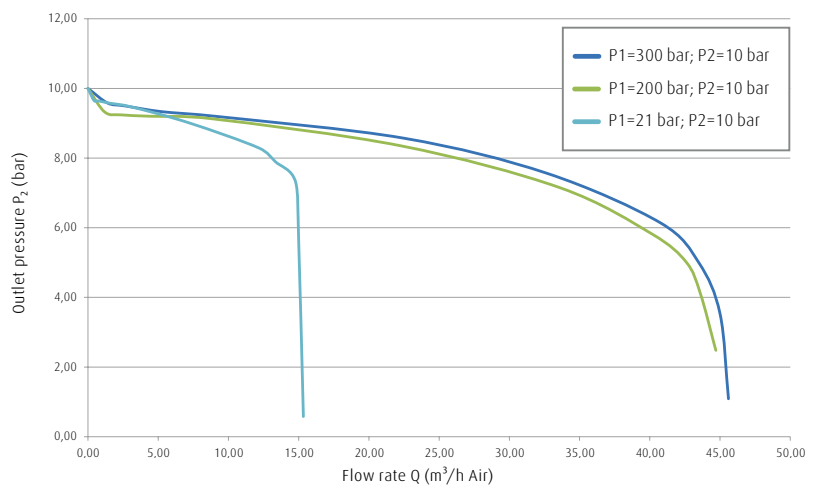
D 300 – 3 bar



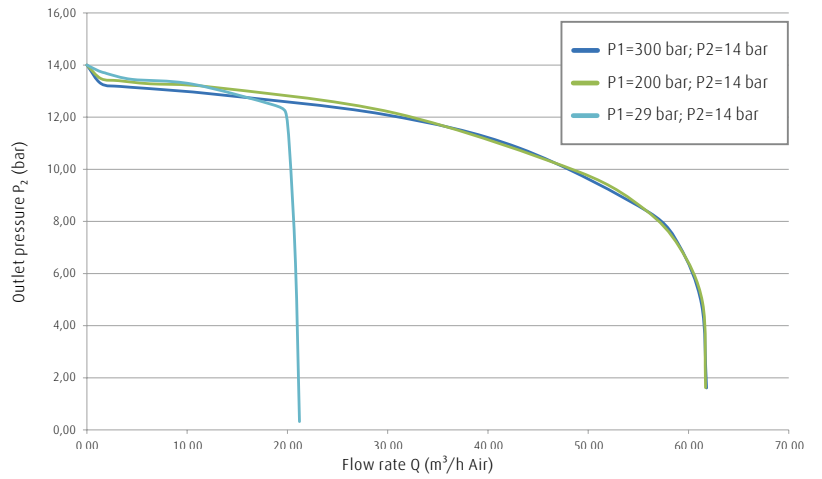
D 300 – 6 bar



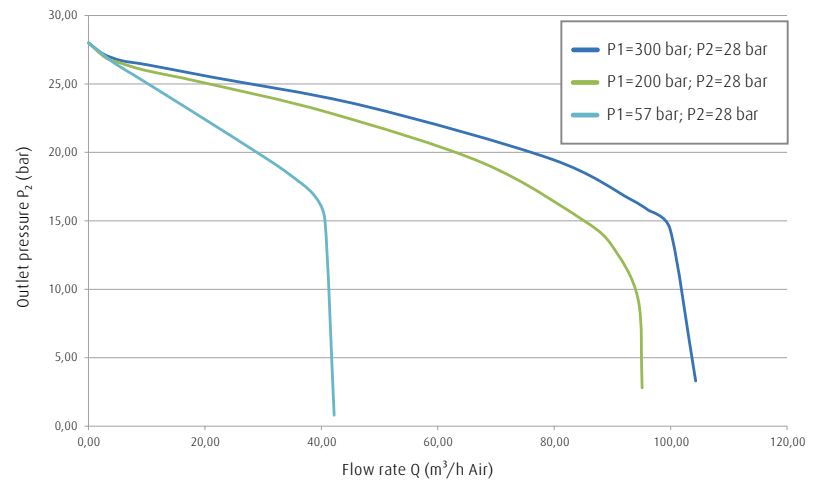
D 300 – 10 bar



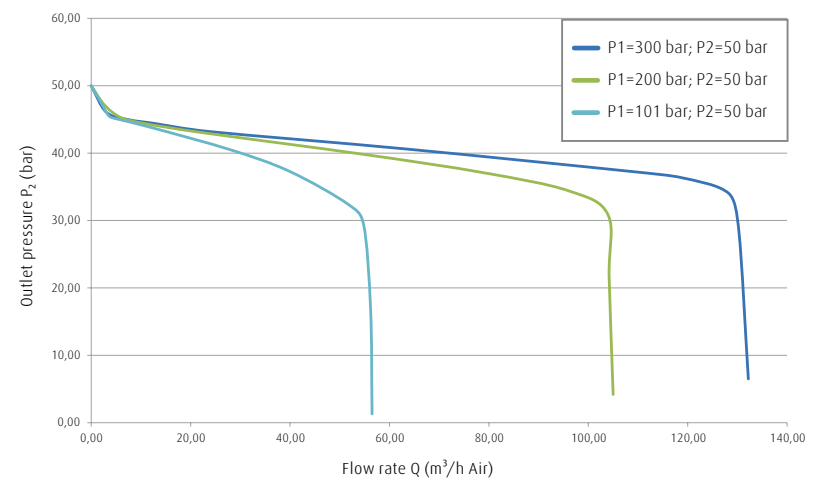
D 300 – 14 bar



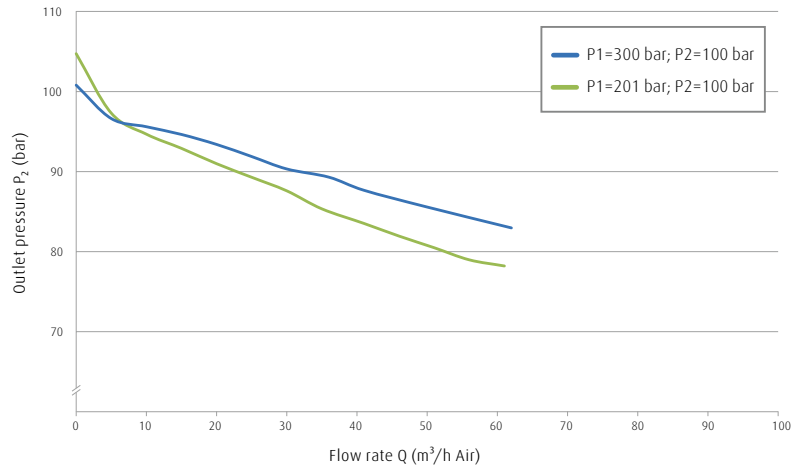
D 300 – 28 bar



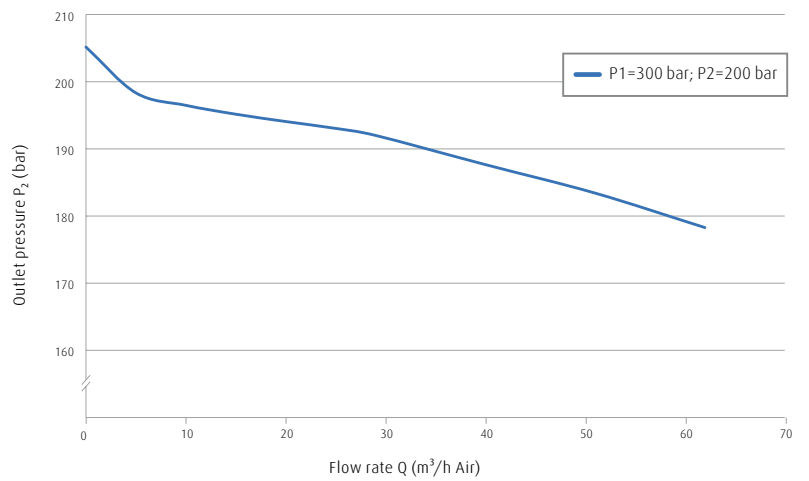
D 300 – 50 bar



D 300 – 100 bar



D 300 – 200 bar



Linde GmbH
 Dr.-Carl-von-Linde-Strasse 6-14, 82049 Pullach, Germany
 Phone +49 89 7446-0, Fax +49 89 7446-1230, <http://hiq.linde-gas.com>