

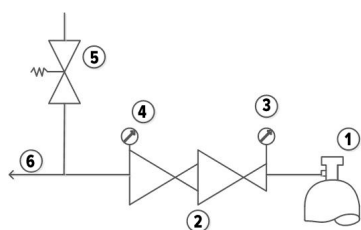
CPLHODJ | CPLHEDJ – DRUVA®PUR CYLINDER REGULATOR

CYLINDER REGULATOR | PURE LINE (BRASS CHROME PLATED) | 20 m³ SERIES | HIGH PRESSURE RANGE
DUAL STAGE | 6-PORT VERSION



This dual-stage cylinder pressure regulator is used in gas supply systems for pure, inert, flammable, oxidising gases and gas mixtures up to gas purity 6.0. It is not usable for corrosive and / or toxic gases and their mixtures.

Option-00:



- 1 – Cylinder connection
- 2 – Pressure regulator
- 3 – Inlet pressure gauge
- 4 – Outlet pressure gauge
- 5 – Relief valve
- 6 – Process gas outlet

Dimension for standard version
see technical drawing

SPECIAL FEATURES:

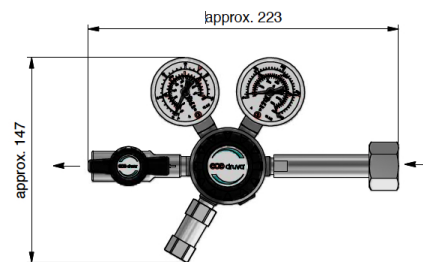
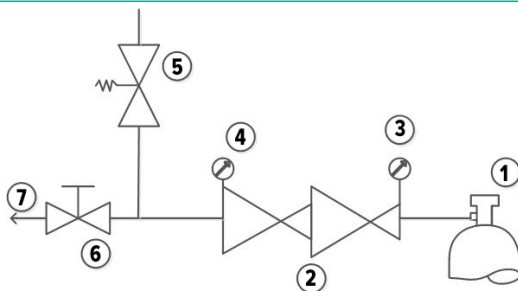
- > Hastelloy diaphragm tightening system to atmosphere
- > Available with several options (shut-off valve, regulating valve, purge valve, etc.), see drawing
- > Available with several international cylinder connections, see drawing
- > Compact design
- > Excellent pressure adjustment
- > Designed and approved regarding ISO 7291
- > Relief valve in delivery pressure side available
- > Electrostatic chargeability test
 - Fulfills requirements according to ISO 80079-36; IEC TS 60079-32-1 and German TRGS 727
 - Usable in EX- areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC

TECHNICAL DATA	
Working temperature:	-20 °C to +60 °C
Inlet port:	Cylinder connection according to national / international directives
Leakage rate seat:	<5x10 ⁻⁶ mbar l/s (Helium)
Leakage rate outside:	<1x10 ⁻⁹ mbar l/s (Helium)
Filter:	1x for inlet 1x for each outlet
Weight:	3,33 kg
Flow nominal:	20 m³/h (N2) according to ISO 7291 at 20 bar out
Material gas wetted parts:	
Regulator body:	Brass chrome plated
Regulator diaphragm:	Hastelloy
Regulator seat:	PCTFE (1st stage) PTFE (2nd stage)
Relief valve seat:	CPLHODJ-Version: FKM CPLHEDJ-Version: EPDM
Regulator poppet:	Brass (2.0371)
Pressure rates cylinder regulator:	
Max. inlet pressure	300 bar
Delivery pressure	1/ 3/ 6/ 10/ 14 bar
Pressure gauges rates (pressure rates):	2,5 (2)/ 5 (3)/ 10 (6)/ 25 (10, 14) bar
Contact gauges available – please contact us	
Cracking pressure relief valves:	1,5 (1) / 4,6 (3) / 9,2 (6) / 15,4 (10) / 21,6 (14) bar
Test in production:	Pressure test with Helium of each item
	Seat leakage test with Helium of each item
	Helium leak test of each regulator against atmosphere
	Test of functionality of each item
Approvals during development:	Type test in accordance with ISO 7291
	Additional life cycle test
	Electrostatic chargeability test
	• Fulfills requirements according to ISO 80070-36; IEC TS 60079-32-1 and German TRGS 727
	• Usable in EX-areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC

OPTIONS FOR CYLINDER REGULATOR CPLH0DJ | CPLHEDJ:

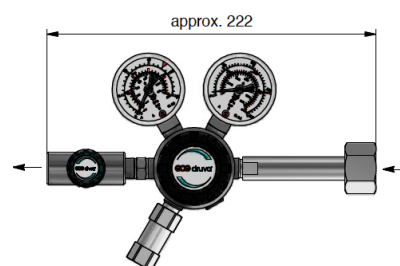
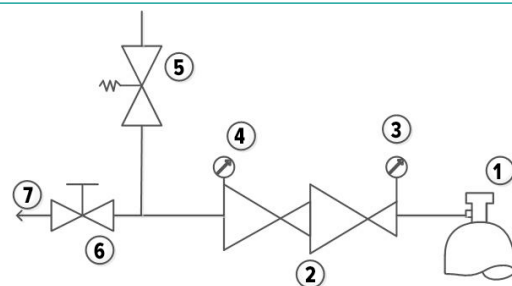
Option-0S: with low pressure shut-off valve

- 1 – Cylinder connection
- 2 – Pressure regulator
- 3 – Inlet pressure gauge
- 4 – Outlet pressure gauge
- 5 – Relief valve
- 6 – Outlet shut-off valve
- 7 – Process gas outlet



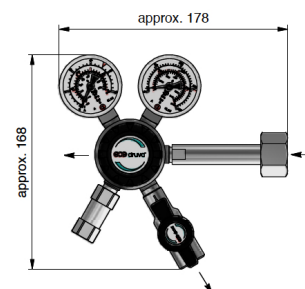
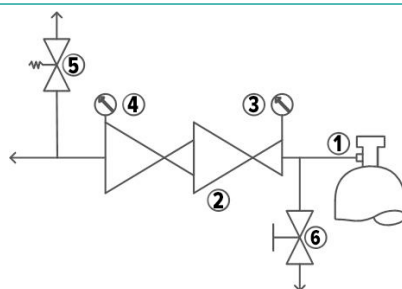
Option-0R: with low pressure regulating valve

- 1 – Cylinder connection
- 2 – Pressure regulator
- 3 – Inlet pressure gauge
- 4 – Outlet pressure gauge
- 5 – Relief valve
- 6 – Outlet regulating valve
- 7 – Process gas outlet



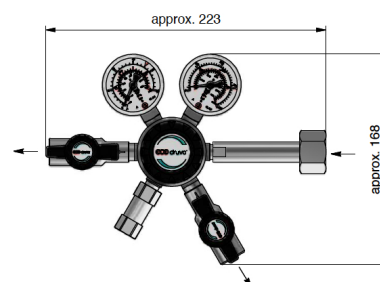
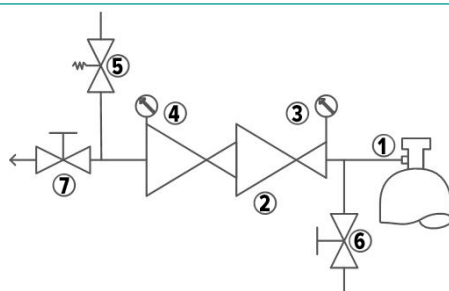
Option-P0: with high pressure purge valve

- 1 – Cylinder connection
- 2 – Pressure regulator
- 3 – Inlet pressure gauge
- 4 – Outlet pressure gauge
- 5 – Relief valve
- 6 – Purge valve



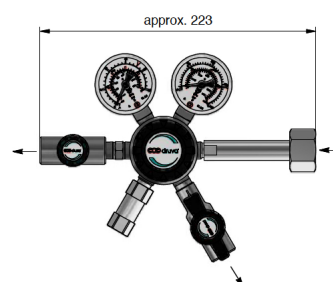
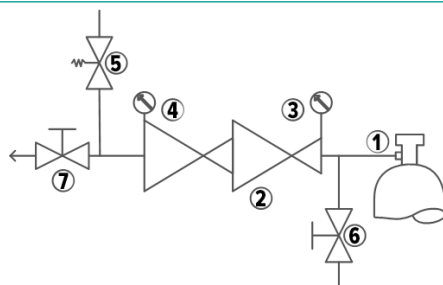
Option-PS: with high pressure purge valve & low pressure shut-off valve

- 1 – Cylinder connection
- 2 – Pressure regulator
- 3 – Inlet pressure gauge
- 4 – Outlet pressure gauge
- 5 – Relief valve
- 6 – Purge valve
- 7 – Outlet shut-off valve

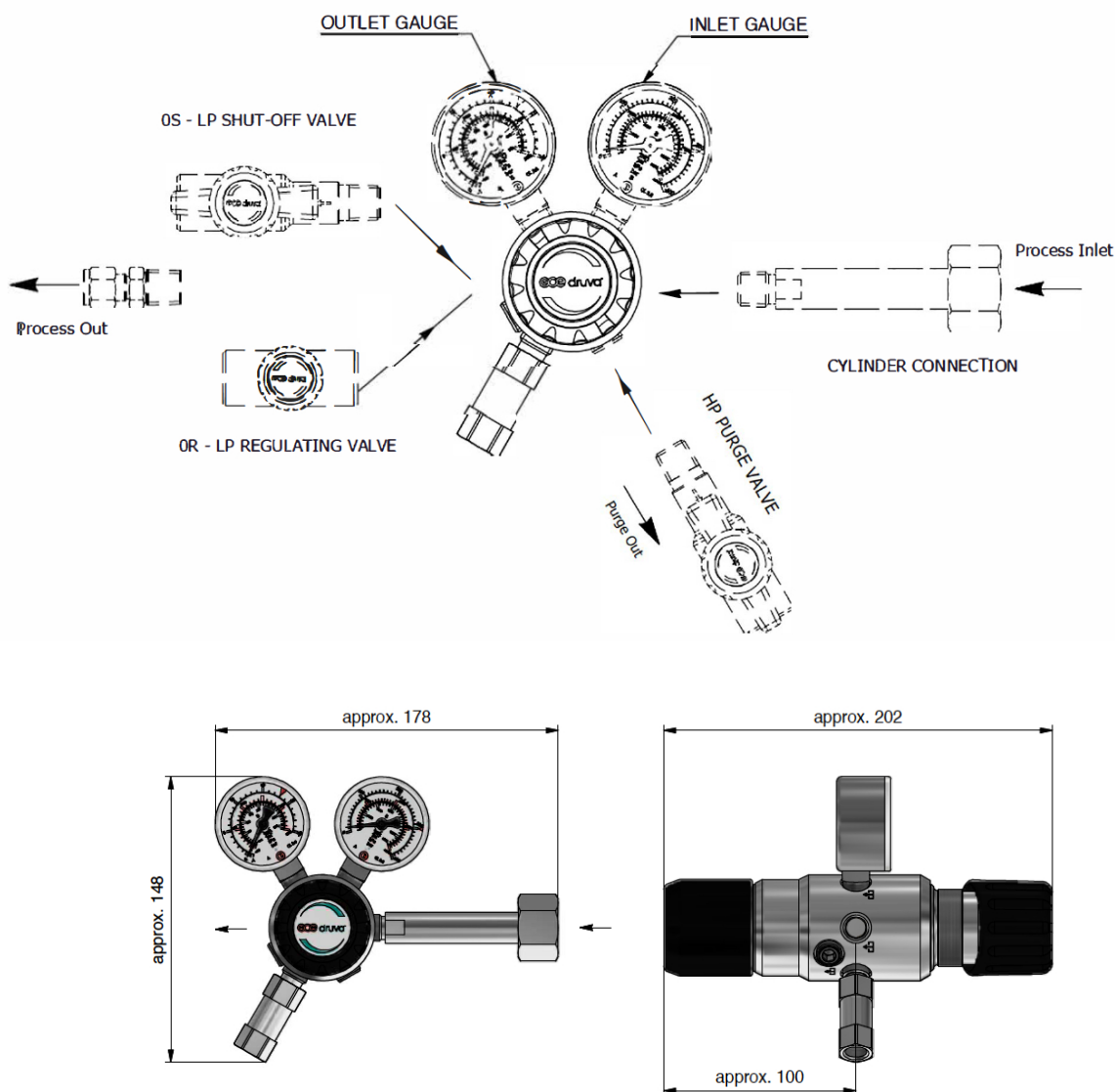


Option-PR: with high pressure purge valve & low pressure regulating valve

- 1 – Cylinder connection
- 2 – Pressure regulator
- 3 – Inlet pressure gauge
- 4 – Outlet pressure gauge
- 5 – Relief valve
- 6 – Purge valve
- 7 – Outlet regulating valve



TECHNICAL DRAWING:



List of possible cylinder connections

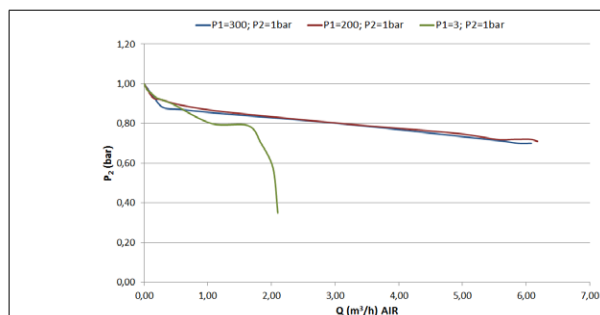
N14F00	- NPT1/4" female	DI005W	- DIN477 No 5 Wrench	DI054H	- DIN477 No 54 Hand
BS003W	- BSI341-3 Wrench	DI006H	- DIN477 No 6 Hand	DI054W	- DIN477 No 54 Wrench
BS004W	- BSI341-4 Wrench	DI006W	- DIN477 No 6 Wrench	DI057W	- DIN477 No 57 Wrench
BS008W	- BSI341-8 Wrench	DI007W	- DIN477 No 7 Wrench	DI059W	- DIN477 No 59 Wrench
BS010W	- BSI341-10 Wrench	DI008W	- DIN477 No 8 Wrench	NELU1W	- NEN LU1 Wrench
BS014W	- BSI341-14 Wrench	DI009W	- DIN477 No 9 Wrench	NELU4W	- NEN LU4 Wrench
CG170W	- CGA No 170 Wrench	DI010H	- DIN477 No 10 Hand	NERI2W	- NEN RI2 Wrench
CG330W	- CGA No 330 Wrench	DI010W	- DIN477 No 10 Wrench	NERU1W	- NEN RU1 Wrench
CG580W	- CGA No 580 Wrench	DI011W	- DIN477 No 11 Wrench	NERU3W	- NEN RU3 Wrench
CG590W	- CGA No 590 Wrench	DI013W	- DIN477 No 13 Wrench	NF00CW	- AFNOR Type C Wrench
DI001H	- DIN477 No 1 Hand	DI014H	- DIN477 No 14 Hand	NF00FW	- AFNOR Type F Wrench
DI001W	- DIN477 No 1 Wrench	DI014W	- DIN477 No 14 Wrench	other connections on request	

List of possible connections

N14F	- NPT1/4" female				
M03B	- Compression fitting ø 3 MM Brass	IX2B	- Compression fitting ø 1/8" Brass	H04B	- Hose nozzle 4,8 mm Brass
M06B	- Compression fitting ø 6 MM Brass	IX4B	- Compression fitting ø 1/4" Brass	H06B	- Hose nozzle 6,4 mm Brass
M08B	- Compression fitting ø 8 MM Brass	IX6B	- Compression fitting ø 3/8" Brass	H08B	- Hose nozzle 8,0 mm Brass
M10B	- Compression fitting ø 10 MM Brass	IX8B	- Compression fitting ø 1/2" Brass	H04S	- Hose nozzle 4,8 mm SST
M12B	- Compression fitting ø 10 MM Brass	IX2S	- Compression fitting ø 1/8" SST	H06S	- Hose nozzle 6,4 mm SST
M03S	- Compression fitting ø 3 MM SST	IX4S	- Compression fitting ø 1/4" SST	H08S	- Hose nozzle 8,0 mm SST
M06S	- Compression fitting ø 6 MM SST	IX6S	- Compression fitting ø 3/8" SST	Availability of brass fittings depending on pressure & size.	
M08S	- Compression fitting ø 8 MM SST	IX8S	- Compression fitting ø 1/2" SST	Pay attention to the maximum approved pressure of your pipework.	
M10S	- Compression fitting ø 10 MM SST			Hose nozzle max. 15 bar.	
M12S	- Compression fitting ø 12 MM SST				

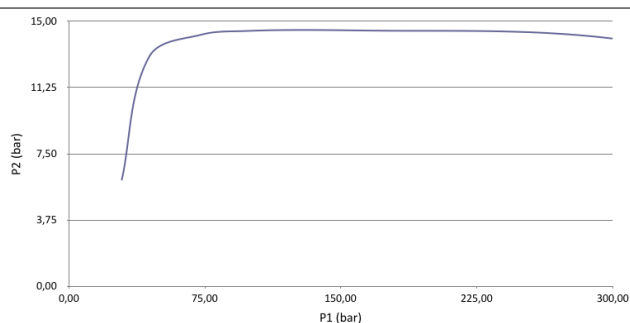
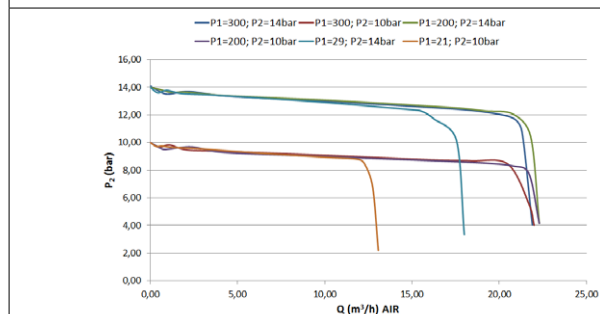
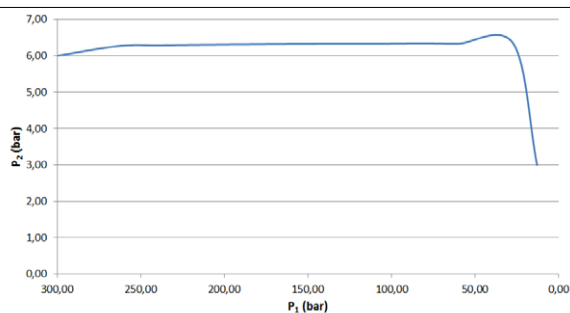
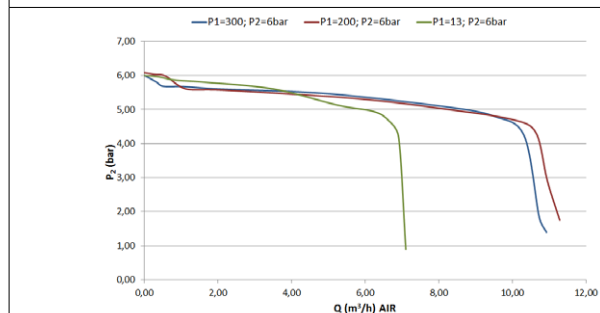
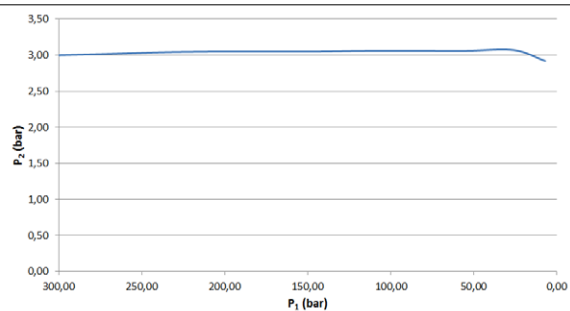
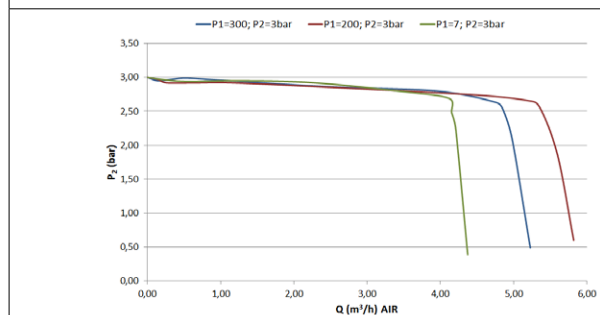
Hose nozzle max. 15 bar.

FLOW CURVES:



DYNAMIC EXPANSION CURVES:

Dynamic expansion curve not measurable for P2=1bar



ORDER CODE:

Example Cylinder Regulator | PUR Linie | Brass Chrome Plated | Low Flow | High Pressure | Dual Stage | 6-Port Version | Inlet Right

CPLH0DJ CPLHEDJ	R	00	FX	DX	I1	BT	N14F (1/4" NPT female)	N14F (1/4" NPT female)
	Porting	Options	Inlet pressure	Outlet pressure	Inlet gauge	Outlet gauge	Cylinder connection	Process outlet connection
R	Inlet right	00 No option	F4 60 bar	AY 1 bar	00 Without 1/4" NPT female	00 Without 1/4" NPT female	possible connections see technical drawing	possible connections see technical drawing
		0S LP* Shut-off valve	FX 200 bar	BX 3 bar	01 Without (plugged)	01 Without (plugged)		
		0R LP* Regulating valve	GX 300 bar	CX 6 bar	BT Bourdon Tube gauge	BT Bourdon Tube gauge		
		P0 HP** Purge valve		D2 10 bar	I1 Inductiv contact gauge I1	I2 Inductiv contact gauge I2		
		PS HP** Purge- and LP* Shut-off valve		DX 14 bar	R5 Reed contact gauge R5	I1 Inductiv contact gauge I1		
		PR HP** Purge- and LP* Regulating valve						

Order code (as described above) without special characters or spaces! Complete Order Code **CPLH0DJR00FXDXI1BTN14FN14F**

* LP = Low pressure

** HP = High pressure



Link to online product configurator