CSLHODJ | CSLHEDJ - DRUVA®PUR CYLINDER REGULATOR

CYLINDER REGULATOR | PURE LINE (STAINLESS STEEL) | 20 m3 SERIES | HIGH PRESSURE RANGE DUAL STAGE | 6-PORT VERSION | INLET RIGHT



This dual-stage cylinder pressure regulator is used in gas supply systems for pure, inert, flammable, oxidising, corrosive and / or toxic gases and their mixtures up to gas purity 6.0.

Option-00:



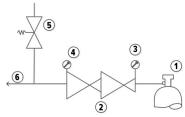
SPECIAL FEATURES:

- > Hastelloy diaphragm tighting 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 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









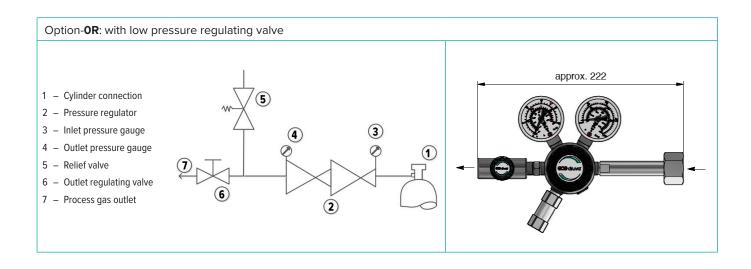
- 1 Cylinder connection
- 2 Pressure regulator
- 3 Inlet pressure gauge
- 4 Outlet pressure gauge
- 5 Relief valve
- 6 Process gas outlet

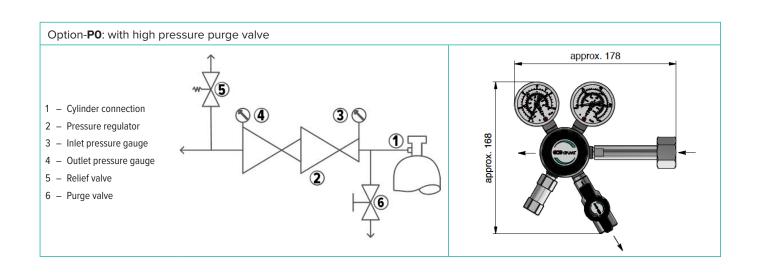
Dimension for standard version see technical drawina

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 I/s (Helium)				
Filter:	1x for inlet 1x for each outlet				
Weight:	4,04 kg				
Flow nominal:	20 $m^3/h \; (N_2)$ according to ISO 7291 at 20 bar out				
Material gas wettet parts					
Regulator body:	Stainless Steel				
Regulator diaphragm:	Hastelloy				
Regulator seat: First pressure stage Second pressure stage	PCTFE PTFE				
Relief valve seat: CSLH0DJ-Version CSLHEDJ-Version	FKM EPDM				
Regulator poppet:	Stainless Steel				
Pressure rates cylinder regulator					
Max. inlet pressure:	300 bar				
Delivery pressure:	2/ 3/ 6/ 10/ 14/ 28/ 50/ 100/ 200 bar				
Pressure gauges rates (pressure rat	tes): 2,5 (2)/ 5 (3)/ 10 (6)/ 25 (10, 14)/ 40 (28)/ 65 (50)/ 160 (100)/ 200 (315) bar				
Contact gauges available – please co	entact us				
Cracking pressure relief valves:	3,1 (2)/ 4,6 (3)/ 9,2 (6)/ 15,4 (10)/ 21,6 (14)/ 15,4 (10)/ 21,6 (14)/ 43,1 (28)/ 77 (50)/ 154 (100) bar				
	Pressure test with Helium of each item				
Toot in mundications	Seat leakage test with Helium of each item				
Test in production:	Helium leak test of each regulator against atmosphere				
	Test of functionality of each item				
	Type test in accordance with ISO 7291				
	Additional life cycle test				
Approvals during development:	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 OF CYLINDER PRESSURE REGULATOR CSLH0DJ | CSLHEDJ:

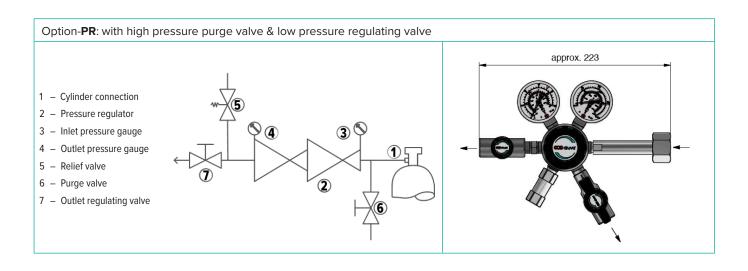
Option-**0S**: with low pressure shut-off valve 1 - Cylinder connection 2 - Pressure regulator 3 - Inlet pressure gauge 4 - Outlet pressure gauge 5 - Relief valve 6 - Outlet shut-off valve 7 - Process gas outlet

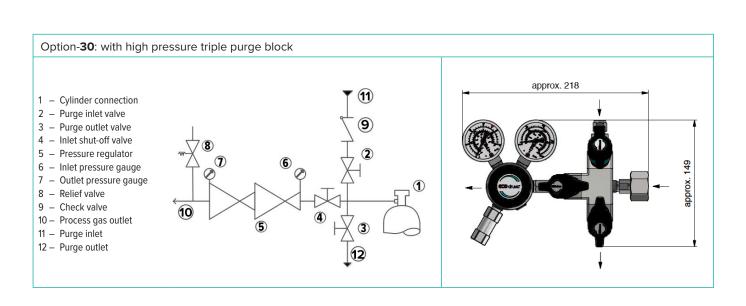




OPTIONS OF CYLINDER PRESSURE REGULATOR CSLH0DJ | CSLHEDJ:

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

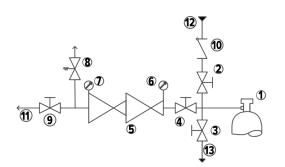


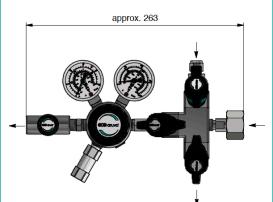


OPTIONS OF CYLINDER PRESSURE REGULATOR CSLHODJ | CSLHEDJ:

Option-3R: with high pressure triple purge block & low pressure regulating valve

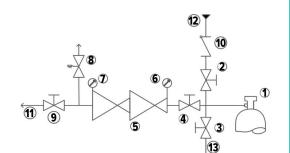
- 1 Cylinder connection
- 2 Purge inlet valve
- 3 Purge outlet valve
- 4 Inlet shut-off valve
- 5 Pressure regulator
- 6 Inlet pressure gauge
- 7 Outlet pressure gauge
- 8 Relief valve
- 9 Outlet regulating valve
- 10 Check valve
- 11 Process gas outlet
- 12 Purge inlet
- 13 Purge outlet

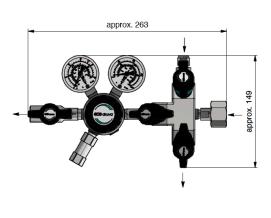




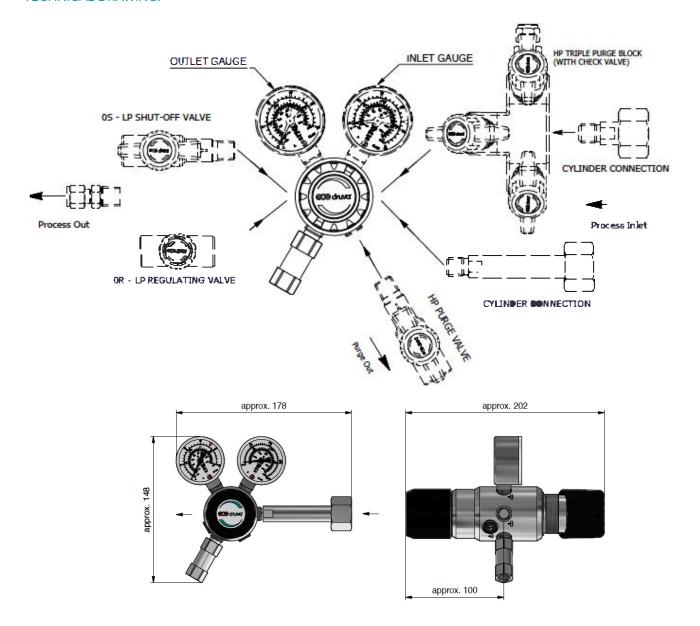
Option-35: with high pressure triple purge block & low pressure shut-off valve

- 1 Cylinder connection
- 2 Purge inlet valve
- 3 Purge outlet valve
- 4 Inlet shut-off valve
- 5 Pressure regulator
- 6 Inlet pressure gauge
- 7 Outlet pressure gauge
- 8 Relief valve
- 9 Outlet shut-off valve
- 10 Check valve
- 11 Process gas outlet
- 12 Purge inlet
- 13 Purge outlet





TECHNICAL DRAWING:



List of possible cylinder connections

List of possible cyllider collifections		
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

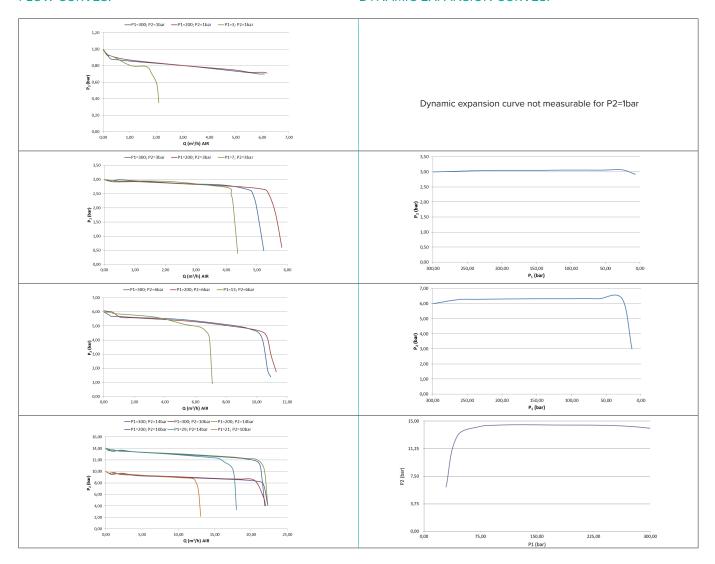
List of possible connections

LIST OF	þ	ossible connections			
N14F	-	NPT1/4" female	IX2S	-	Compression fitting ø 1/8" Stainless Steel
M03S	-	Compression fitting ø 3 MM Stainless Steel	IX4S	-	Compression fitting ø 1/4" Stainless Steel
M06S	-	Compression fitting ø 6 MM Stainless Steel	IX6S	-	Compression fitting ø 3/8" Stainless Stee
M08S	-	Compression fitting ø 8 MM Stainless Steel	IX8S	-	Compression fitting ø 1/2" Stainless Steel
M10S	-	Compression fitting ø 10 MM Stainless Steel	H04S	-	Hose nozzle 4,8 mm Stainless Steel
M12S	-	Compression fitting ø 12 MM Stainless Steel	H06S	-	Hose nozzle 6,4 mm Stainless Steel
			H08S	-	Hose nozzle 8,0 mm Stainless Steel

Hose nozzle max. 15 bar.

FLOW CURVES:

DYNAMIC EXPANSION CURVES:



ORDER CODE:

 $Example\ Cylinder\ Regulator\ |\ PUR\ Linie\ |\ Stainless\ Steel\ |\ Low\ Flow\ |\ High\ Pressure\ |\ Dual\ Stage\ |\ 6-Port\ Version\ |\ Inlet\ Right\ |\ Purbless\ Right\ |\ Purbless\$

CSLH0DJ CSLHEDJ	R	00	FX	DX	I1	ВТ	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 1bar	00 Without 1/4" NPT female	00 Without 1/4" NPT female		
		OS LP* Shut-off valve	FX 200 bar	BX 3 bar	01 Without (plugged)	01 Without (plugged)		
		OR LP* Regulating valve	GX 300 bar	CX 6 bar	BT Bourdon Tube gauge	BT Bourdon Tube gauge		
		PO HP** Purge valve		D2 10 bar	I1 Inductiv contact gauge I1	l2 Inductiv contact gauge I2		
		PS HP** Purge- and LP* Shut-off valve		DX 14 bar	R5 Reed contact gauge R5	Inductiv contact gauge I1	possible connections	possible connections
		PR HP** Purge- and LP* Regulating valve					see technical	see technical
		30 HP** Triple purge block					drawing	drawing
		3S HP** Triple purge block & LP shut-off valve						
		3R HP** Triple purge block & LP* regulating valve						

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

* LP = Low pressure

*** HP = High pressure

