CSLHOSJ | CSLHESJ – DRUVA®PUR CYLINDER REGULATOR CYLINDER REGULATOR | PURE LINE (STAINLESS STEEL) | 20 m³ SERIES | HIGH PRESSURE RANGE SINGLE STAGE | 6-PORT VERSION

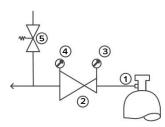
This single-stage cylinder pressure regulator is used in gas supply systems for pure, inert, flammable, oxidising, corrosive and / or toxic gases and their mixtures up to gas purity 6.0.

Option-00:









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

Dimension for standard version see technical drawing

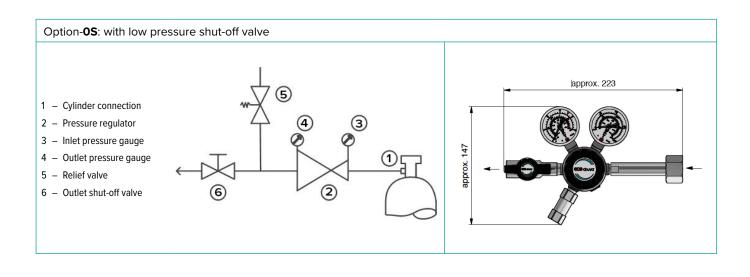
SPECIAL FEATURES:

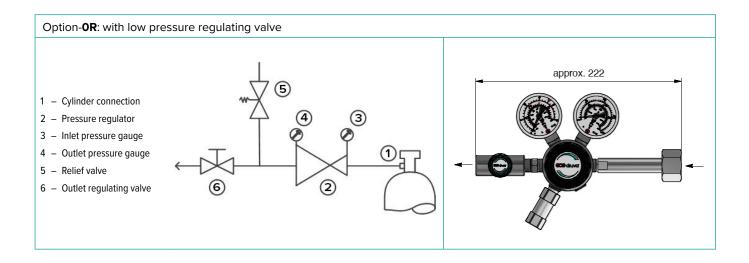
- > Hastelloy diaphragm tighting system to atmosphere
- > Available with several options (shut-off valve, regulating valve, purge valve, etc.), see drawing
- > Available with several international cylinder connections, see drawing
- > Compact design
- > Excellent pressure adjustment
- > Designed and 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

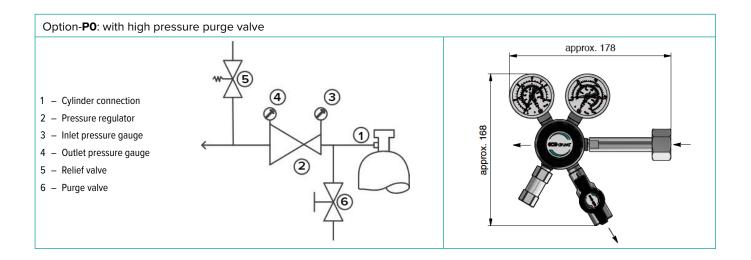
TECHNICAL DATA					
Working temperature:	-20 °C to +60 °C				
Inlet port:	Cylinder connection according to national / international directives				
Leakage rate seat:	<5x10-6 mbar l/s (Helium)				
Leakage rate outside:	<1x10 ^{.9} mbar I/s (Helium)				
Filter:	1x for inlet 1x for each outlet				
Weight:	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:	PCTFE (P in > 50 bar) PTFE (P in \leq 50 bar)				
Relief valve seat: CSLHOSJ-Version CSLHESJ-Version Regulator poppet:	FKM EPDM Stainless Steel				
Pressure rates cylinder regulator					
Max. inlet pressure:	300 bar				
Delivery pressure:	2/ 3/ 6/ 10/ 14/ 28/ 50/ 100/ 200 bar				
•••	2, 5, 6, 6, 6, 4, 26, 56, 106, 200 but 2, 5, (2)/ 5 (3)/ 10 (6)/ 25 (10, 14)/ 40 (28)/ 65 (50)/ 160 (100)/ 200 (315) bar				
Contact gauges available – please contact					
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				
To at in your docations.	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				
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 				

6.0 PUR

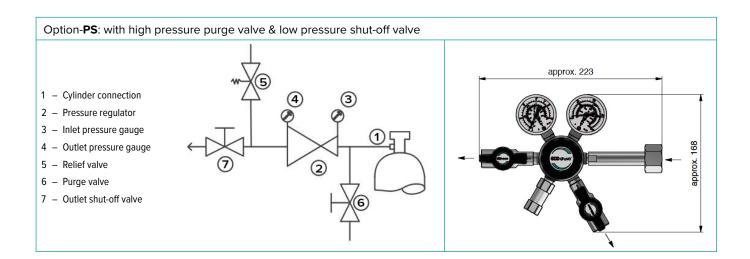
OPTIONS OF CYLINDER PRESSURE REGULATOR CSLHOSJ | CSLHESJ:

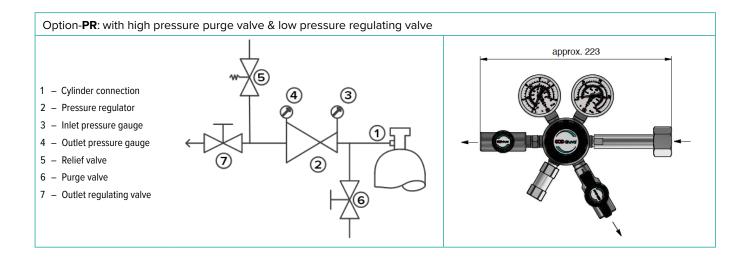


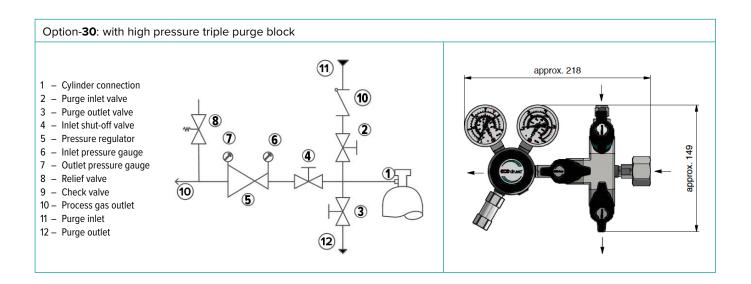




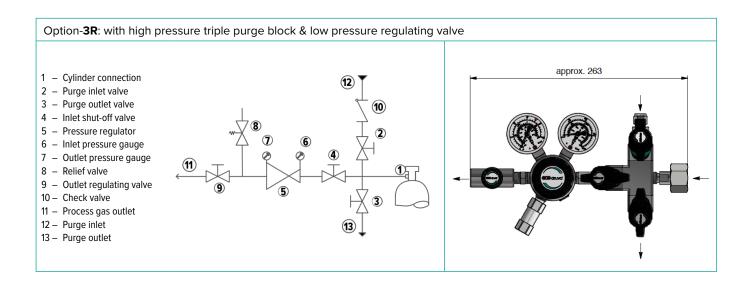
OPTIONS OF CYLINDER PRESSURE REGULATOR CSLHOSJ | CSLHESJ:

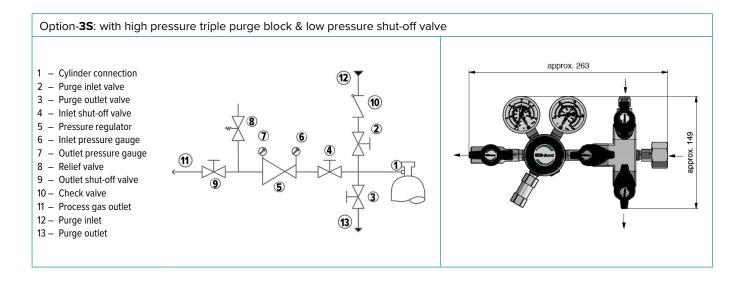




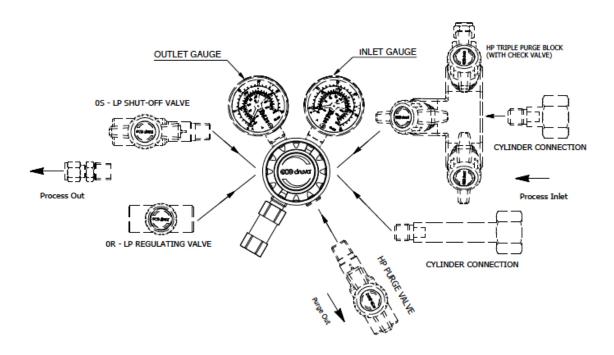


OPTIONS OF CYLINDER PRESSURE REGULATOR CSLHOSJ | CSLHESJ:

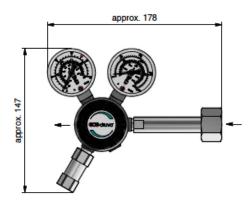


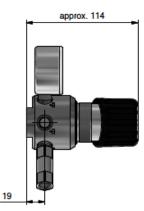


TECHNICAL DRAWING:



STANDARD VERSION





List of possible cylinder connections

N14F00	 NPT1/4["] female
BS003W	- BSI341-3 Wrench
BS004W	- BSI341-4 Wrench
BS008W	- BSI341-8 Wrench
BS010W	- BSI341-10 Wrench
BS014W	- BSI341-14 Wrench
CG170W	- CGA No 170 Wrench
CG330W	- CGA No 330 Wrench
CG580W	- CGA No 580 Wrench
CG590W	- CGA No 590 Wrench
DI001H	- DIN477 No 1 Hand
DI001W	- DIN477 No 1 Wrench

DI001W - DIN477 No 1 Wrench

List of possible connections N14F - NPT1/4" female

- M03S Compression fitting ø 3 MM Stainless Steel
- M06S Compression fitting ø 6 MM Stainless Steel
- M08S Compression fitting ø 8 MM Stainless Steel M10S - Compression fitting ø 10 MM Stainless Steel
- M12S Compression fitting ø 12 MM Stainless Steel
- IX4S Compression fitting ø 1/4" Stainless Steel IX6S - Compression fitting ø 3/8" Stainless Steel
- IX8S Compression fitting ø 1/2" Stainless Steel
- H04S Hose nozzle 4,8 mm Stainless Steel

IX2S - Compression fitting ø 1/8" Stainless Steel

- H06S Hose nozzle 6,4 mm Stainless Steel
- H08S Hose nozzle 8,0 mm Stainless Steel
- Hose nozzle max. 15 bar.

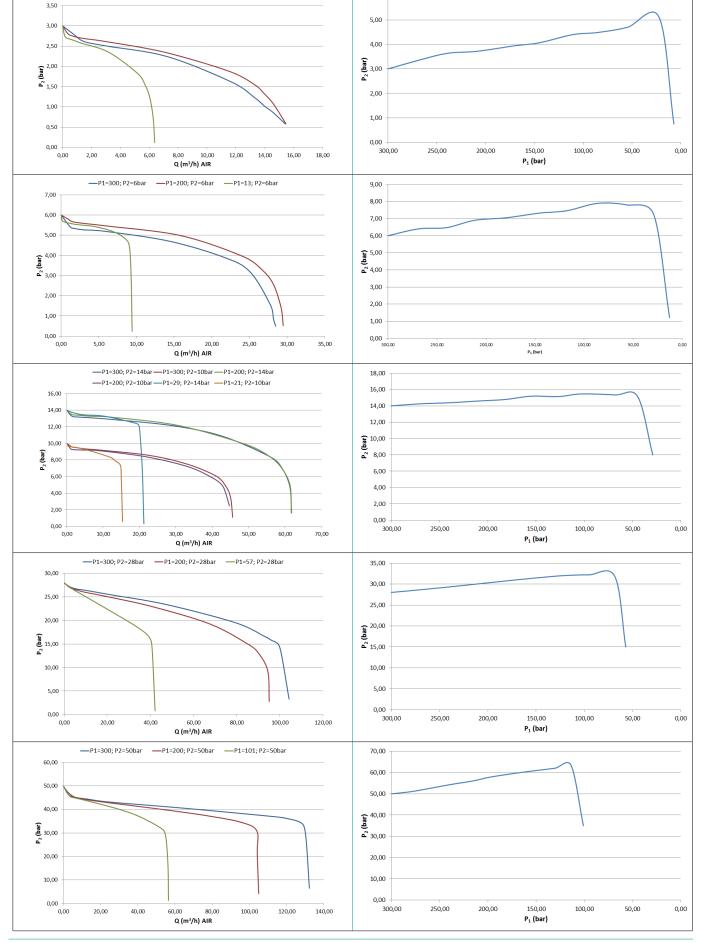
- DIN477 No 11 Wrench DI013W - DIN477 No 13 Wrench DI014H - DIN477 No 14 Hand

DI014W - DIN477 No 14 Wrench

DI005W - DIN477 No 5 Wrench DI006H - DIN477 No 6 Hand DI006W - DIN477 No 6 Wrench DI007W - DIN477 No 7 Wrench DI008W - DIN477 No 8 Wrench DI009W - DIN477 No 9 Wrench DI010H - DIN477 No 10 Hand DI010W - DIN477 No 10 Wrench

DI011W

DI054H	-	DIN477 No 54 Hand				
DI054W	-	DIN477 No 54 Wrench				
DI057W	-	DIN477 No 57 Wrench				
DI059W	-	DIN477 No 59 Wrench				
NELU1W	-	NEN LU1 Wrench				
NELU4W	-	NEN LU4 Wrench				
NERI2W	-	NEN RI2 Wrench				
NERU1W	-	NEN RU1 Wrench				
NERU3W	-	NEN RU3 Wrench				
NF00CW	-	AFNOR Type C Wrench				
NF00FW	-	AFNOR Type F Wrench				
other connections on request						

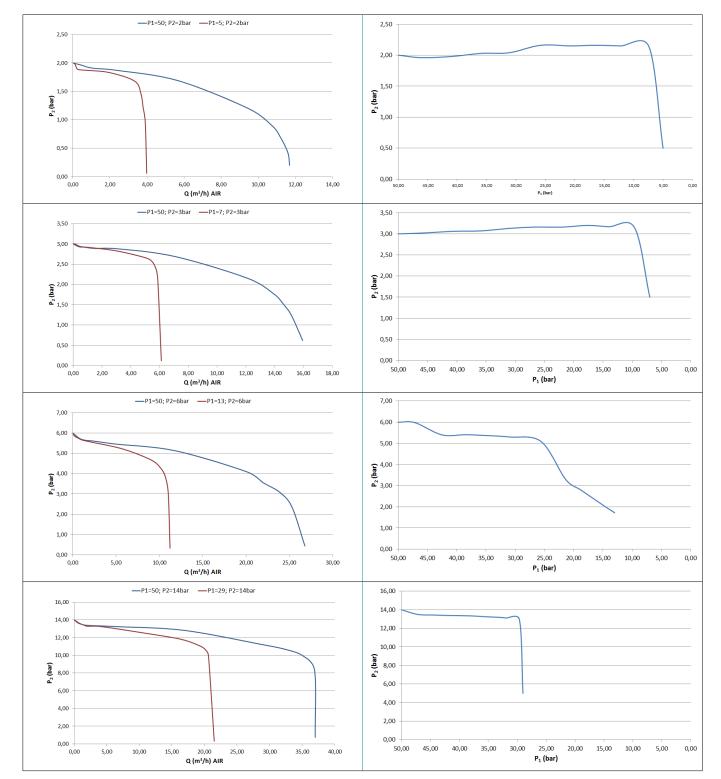


FLOW CURVES:

DYNAMIC EXPANSION CURVES:

6,00

FLOW CURVES:



DYNAMIC EXPANSION CURVES:

ORDER CODE:

Example Cylinder Regulator | PUR Linie | Stainless Steel | Low Flow | High Pressure | Single Stage | 6-Port Version | Inlet Right

CSLH0SJ CSLHESJ	R	00	EX	AX	11	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	EX 50 bar	AX 2 bar ***	00 Without 1/4" NPT female	00 Without gauge 1/4" NPT female		
		OS LP* Shut-off valve	F4 60 bar	BX 3 bar	01 Without (plugged)	01 Without (plugged)		
		OR LP* Regulating valve	FX 200 bar ****	CX 6 bar	BT Bourdon Tube	BT Bourdon Tube		
		P0 HP** Purge valve	GX 300 bar	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	possible connections	possible connections
		PR HP** Purge- and LP* Regulating valve		EY 28 bar				see technical
		30 HP** Triple purge block		EX 50 bar			drawing	drawing
		3S HP** Triple purge block & LP shut-off valve		F2 100 bar				
		3R HP** Triple purge block & LP* regulating valve		FX 200 bar ****				

Order code (as described above) without special characters or spaces! Complete Order Code CSLH0SJR00EXAXI1BTN14FN14F

LP = Low pressure
 HP = High pressure
 only for inlet pressure 50 bar

**** in & out pressure FX=200 bar – no pressure relief valve (PRV) available