## CSLAVSJ | CSLAESJ - DRUVA®PUR CYLINDER REGULATOR

CYLINDER REGULATOR | PURE LINE (STAINLESS STEEL) | 20 m³ SERIES | ABSOLUTE 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:



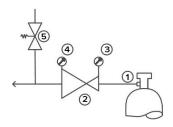
## SPECIAL FEATURES:

- > 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









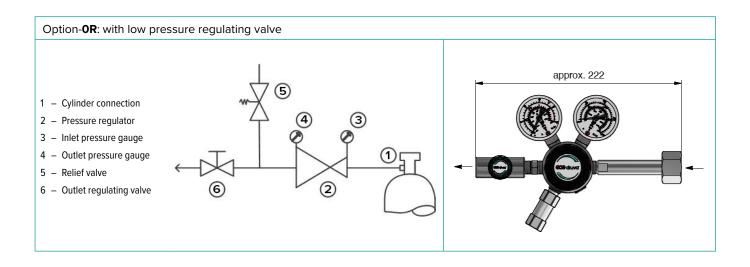
- 1 Cylinder connection
- 2 Pressure regulator
- 3 Inlet pressure gauge
- 4 Outlet pressure gauge
- 5 Relief valve

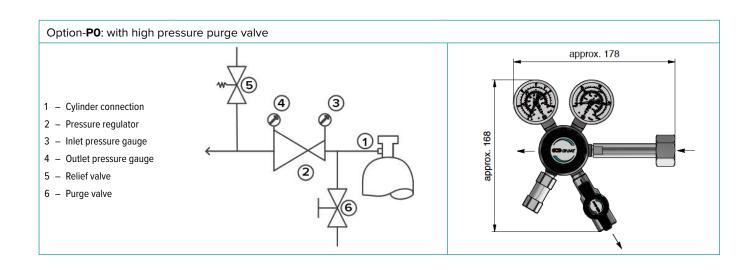
Dimension for standard version see technical drawing

TECHNICAL DATA						
Working temperature:	-20 °C to +60 °C					
Inlet port:	Cylinder connection according to national / international directives					
Leakage rate seat:	<5x10-6 mbar I/s (Helium)					
Leakage rate outside:	<1x10 <sup>-9</sup> mbar I/s (Helium)					
Filter:	1x for inlet 1x for each outlet					
Weight:	4,05 kg					
Flow nominal:	3 m³/h (N₂)					
Material gas wettet parts:						
Regulator body	Stainless Steel					
Regulator diaphragm	Hastelloy					
Regulator seat:						
CSLAVSJ-Version	FKM					
CSLAESJ-Version	EPDM					
Relief valve seat:	<b>-</b>					
CSLAVSJ-Version	FKM					
CSLAESJ-Version	EPDM					
Regulator poppet:	Stainless Steel					
Pressure rates cylinder regulator						
Max. inlet pressure:	12 bar					
Delivery pressure:	2/3 bar abs					
Pressure gauges rates (pressure rates)	: -1 bar till 1,5 bar (2 bar abs) / -1 till 5 bar (3 bar abs)					
Contact gauges available – please conta	ct us					
Cracking pressure relief valves:	1,5 bar (2 bar abs) / 3,1 Bar (3 bar abs)					
	Pressure test with Helium of each item					
	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					

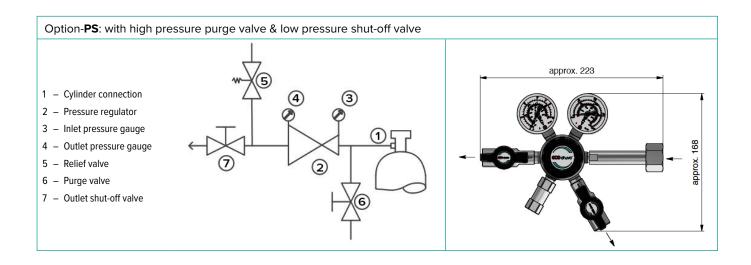
## OPTIONS OF CYLINDER PRESSURE REGULATOR CSLAVSJ | CSLAESJ:

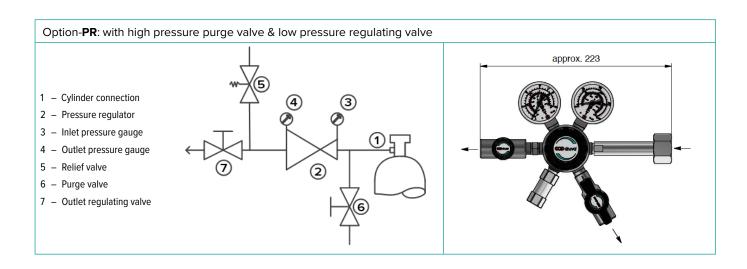
# Option-05: with low pressure shut-off valve 1 - Cylinder connection 2 - Pressure regulator 3 - Inlet pressure gauge 4 - Outlet pressure gauge 5 - Relief valve 6 - Outlet shut-off valve

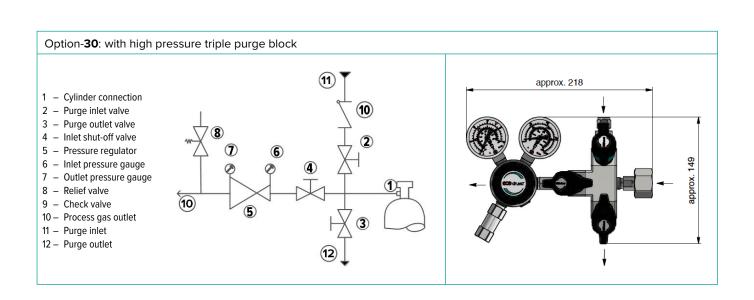




## OPTIONS OF CYLINDER PRESSURE REGULATOR CSLAVSJ | CSLAESJ:

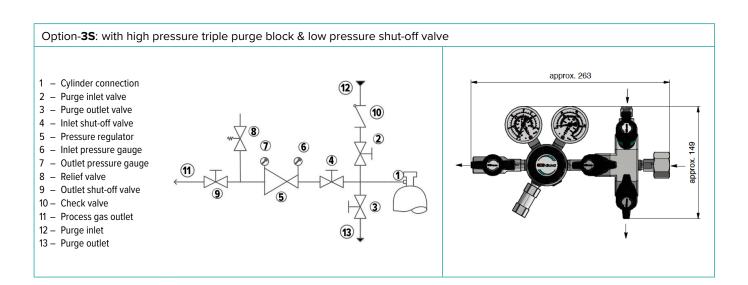




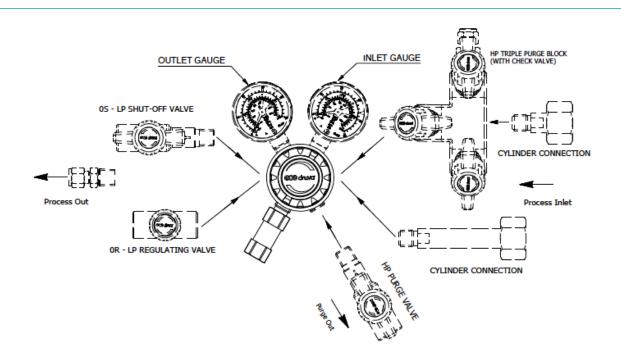


## OPTIONS OF CYLINDER PRESSURE REGULATOR CSLAVSJ | CSLAESJ:

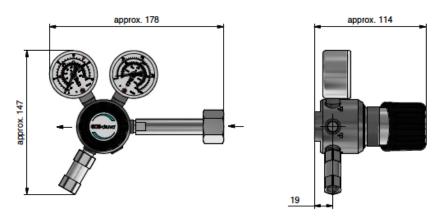
# Option-3R: with high pressure triple purge block & low pressure regulating valve 1 - Cylinder connection 2 - Purge inlet valve 3 - Purge outlet valve 4 - Inlet shut-off valve 5 - Pressure regulator 6 - Inlet pressure gauge 7 - Outlet pressure gauge 8 - Relief valve 9 - Outlet regulating valve 10 - Check valve 11 - Process gas outlet 12 - Purge inlet 13 - Purge outlet



## TECHNICAL DRAWING:



## STANDARD VERSION



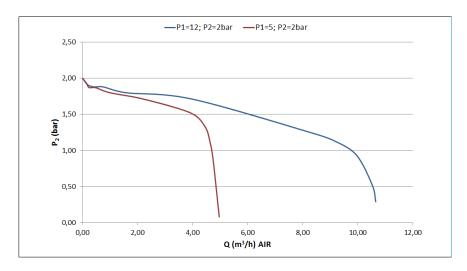
## List of possible cylinder connections

List of possible cyllinder conflections		
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 possible confilections	
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 Steel
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 CURVE:



## **ORDER CODE:**

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

CSLAVSJ	R	00	D1	AX		<b>I1</b>		BT	N14F	N14F
CSLAESJ									(1/4" NPT female)	(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	D1 12 bar	AX 2 bar (abs)		Without 1/4" NPT female	00	Without 1/4" NPT female		
		OS LP* Shut-off valve		BX 3 bar (abs)	01	Without (plugged)	01	Without (plugged)		
		OR LP* Regulating valve			вт	Bourdon Tube gauge	вт	Bourdon Tube gauge		
		P0 HP** Purge valve			111	Inductiv contact gauge I1				
		PS HP** Purge- and LP* Shut-off valve			R5	Reed contact gauge R5			possible connections see technical drawing	possible connections
		PR HP** Purge- and LP* Regulating valve								see technical drawing
		30 HP** Triple purge block								
		3S HP** Triple purge block & LP* shut-off valve								
		3R HP** Triple purge block & LP* regulating valve								

<sup>\*\*</sup> HP = High pressure