

CSLVDJ | CSLLEDJ – DRUVA®PUR CYLINDER REGULATOR

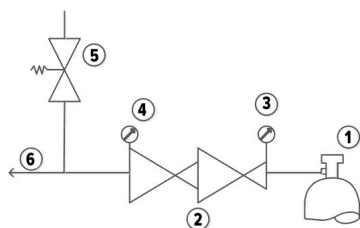
CYLINDER REGULATOR | PURE LINE (STAINLESS STEEL) | 20 m³ SERIES | LOW PRESSURE RANGE

DUAL STAGE | 6-PORT VERSION



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:



- 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:

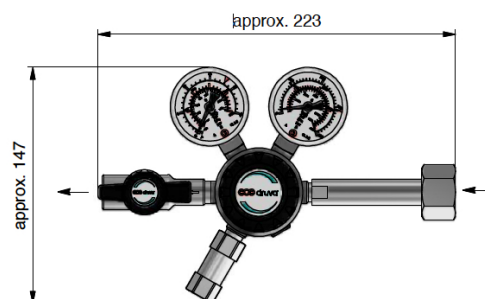
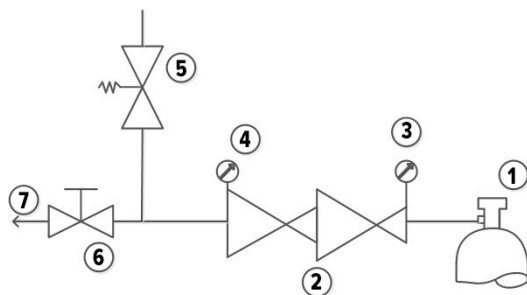
- > Hastelloy diaphragm tightening system to atmosphere
- > Available with several options (shut-off valve, regulating valve, purge valve, etc.), see drawing
- > Available with several international cylinder connections, see drawing
- > Compact design
- > Excellent pressure adjustment
- > Designed and approved regarding ISO 7291
- > Relief valve in delivery pressure side available
- > Electrostatic chargeability test
 - Fulfills requirements according to ISO 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 l/s (Helium)
Filter:	1x for inlet 1x for each outlet
Weight:	4,89 kg
Flow nominal:	3 m³/h (N₂) according to ISO 7291 at 20 bar out
Material gas wetted parts:	
Regulator body:	Stainless Steel
Regulator diaphragm:	Hastelloy
Regulator seat:	
First pressure stage	PCTFE
Second pressure stage	
CSLLVDJ-Version	FKM
CSLLEDJ-Version	EPDM
Relief valve seat:	
CSLLVDJ-Version	FKM
CSLLEDJ-Version	EPDM
Regulator poppet:	Stainless Steel
Pressure rates cylinder regulator:	
Max. inlet pressure	300 bar
Delivery pressure	1/ 2 bar
Pressure gauges rates (pressure rates):	2,5 (1, 2) bar
Contact gauges available – please contact us	
Cracking pressure relief valves:	1,54 (1)/ 3,1 (2) bar
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	
Type test in accordance with ISO 7291	
Additional life cycle test	
Approvals during development:	Electrostatic chargeability test
<ul style="list-style-type: none"> • 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 	

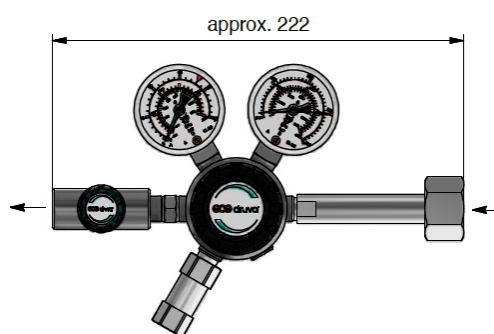
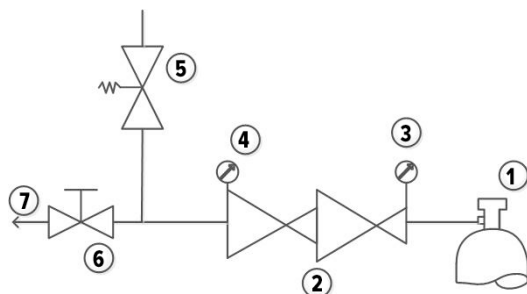
OPTIONS OF CYLINDER PRESSURE REGULATOR CSLLVDJ | CSLLEDJ:

Option-**OS**: with low pressure shut-off valve

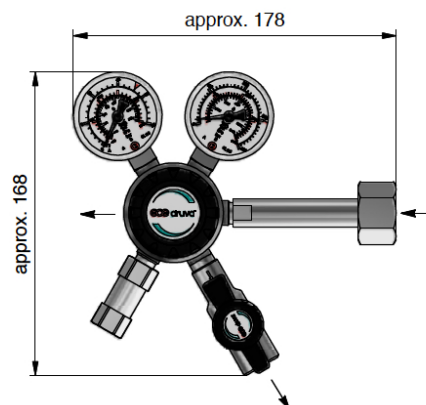
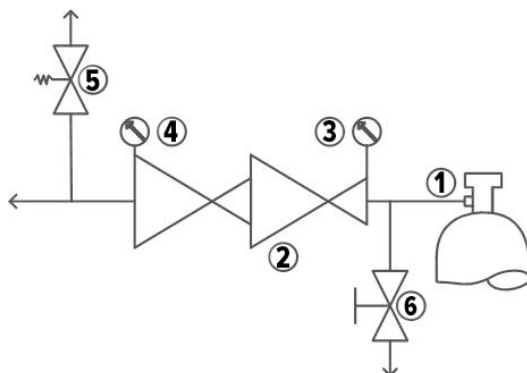
- 1 – Cylinder connection
- 2 – Pressure regulator
- 3 – Inlet pressure gauge
- 4 – Outlet pressure gauge
- 5 – Relief valve
- 6 – Outlet shut-off valve
- 7 – Process gas outlet

Option-**OR**: 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

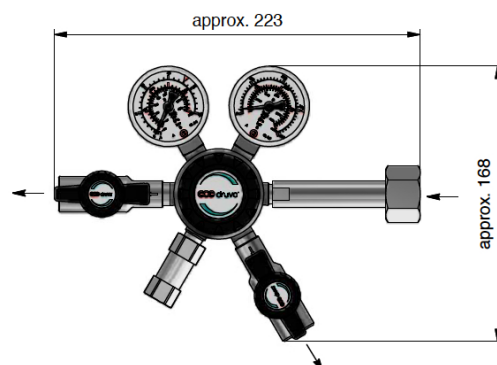
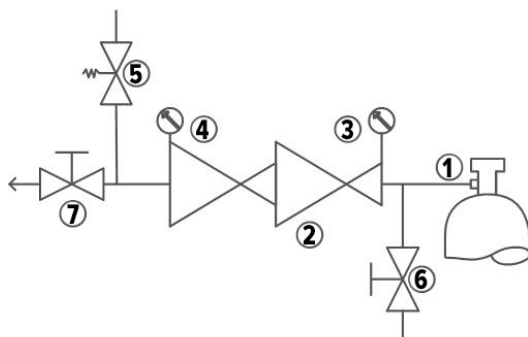
- 1 – Cylinder connection
- 2 – Pressure regulator
- 3 – Inlet pressure gauge
- 4 – Outlet pressure gauge
- 5 – Relief valve
- 6 – Purge valve



OPTIONS OF CYLINDER PRESSURE REGULATOR CSLLVDJ | CSLLVDJ:

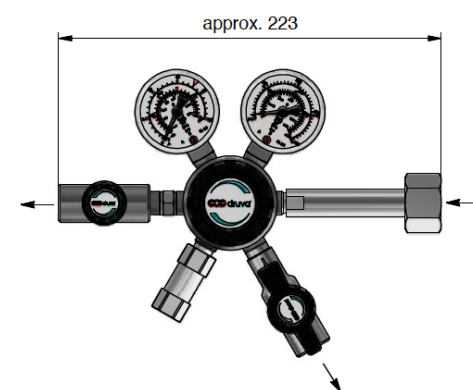
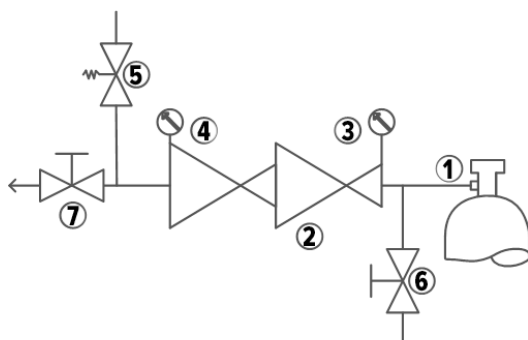
Option-PS: with high pressure purge valve & low pressure shut-off valve

- 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



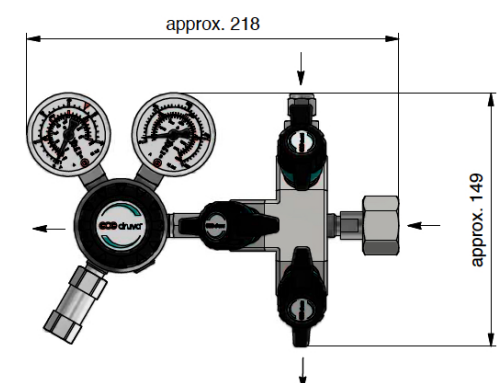
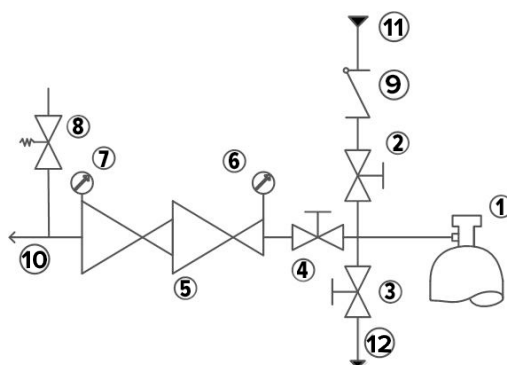
Option-PR: with high pressure purge valve & low pressure regulating valve

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



Option-30: with high pressure triple purge block

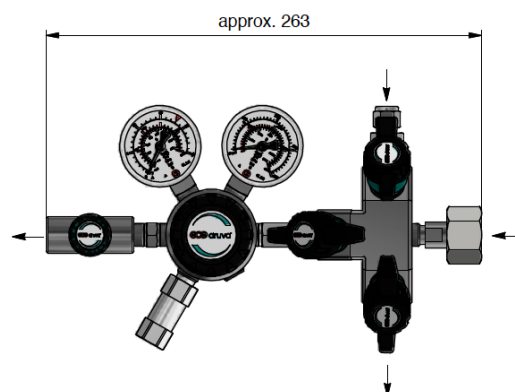
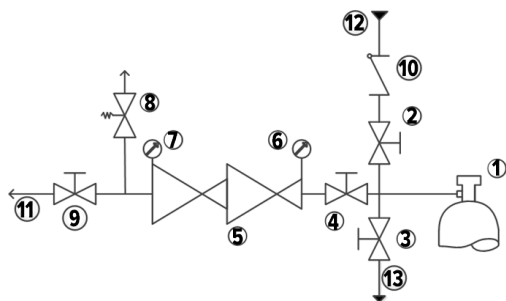
- 1 – Cylinder connection
- 2 – Purge inlet valve
- 3 – Purge outlet valve
- 4 – Inlet shut-off valve
- 5 – Pressure regulator
- 6 – Inlet pressure gauge
- 7 – Outlet pressure gauge
- 8 – Relief valve
- 9 – Check valve
- 10 – Process gas outlet
- 11 – Purge inlet
- 12 – Purge outlet



OPTIONS OF CYLINDER PRESSURE REGULATOR CSLLVDJ | CSLLEDJ:

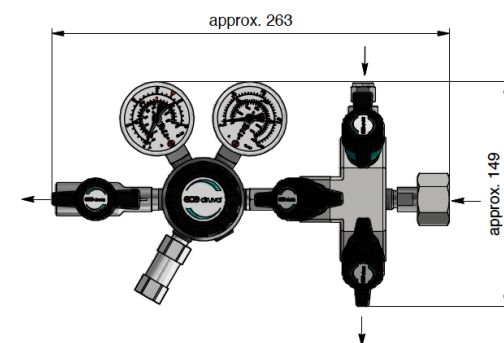
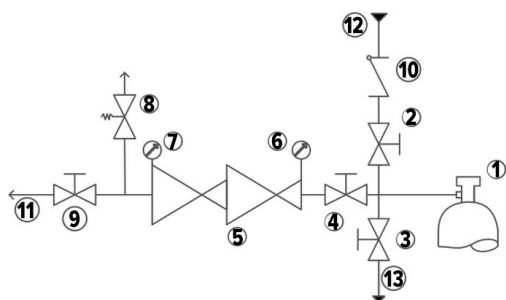
Option-3R: with high pressure triple purge block & low pressure regulating valve

- 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

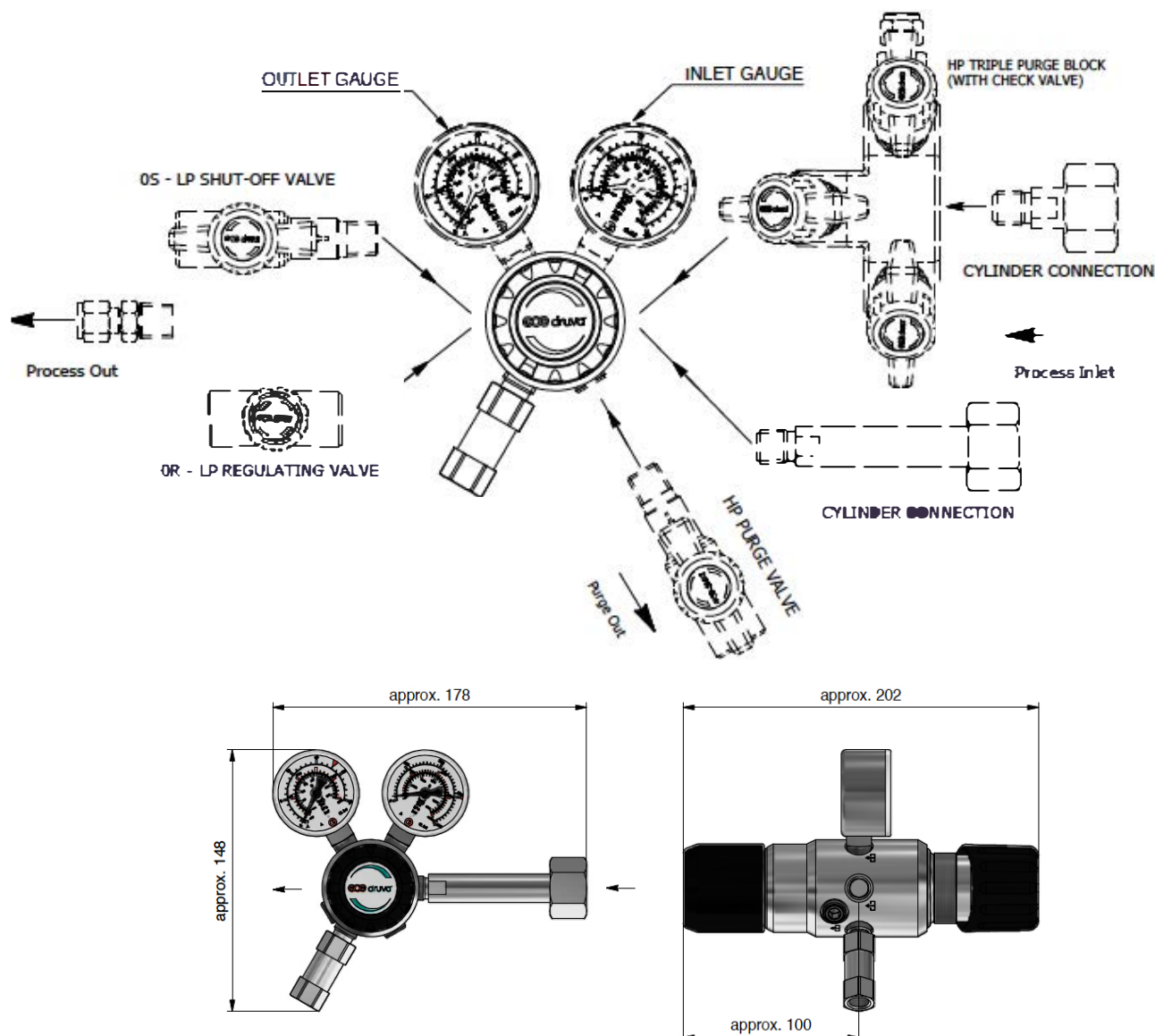


Option-3S: with high pressure triple purge block & low pressure shut-off valve

- 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:



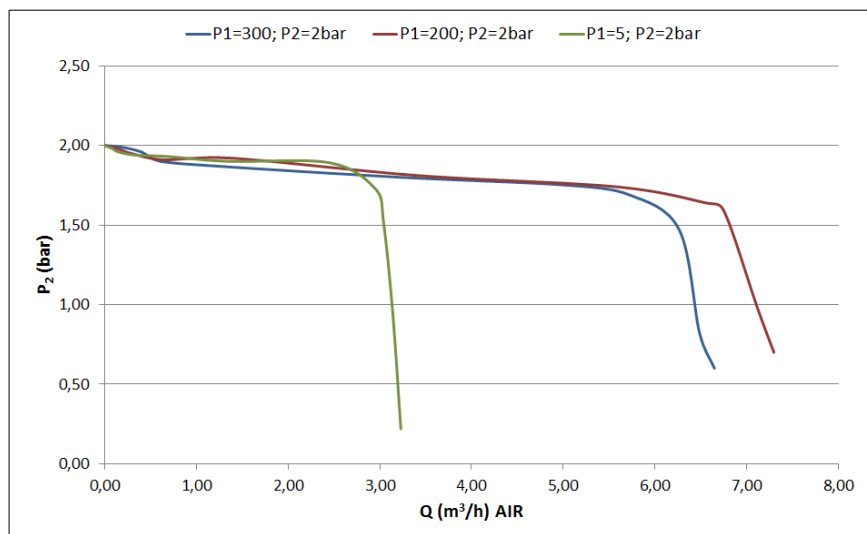
List of possible cylinder connections

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	IX2S - Compression fitting \varnothing 1/8" Stainless Steel
M03S - Compression fitting \varnothing 3 MM Stainless Steel	IX4S - Compression fitting \varnothing 1/4" Stainless Steel
M06S - Compression fitting \varnothing 6 MM Stainless Steel	IX6S - Compression fitting \varnothing 3/8" Stainless Steel
M08S - Compression fitting \varnothing 8 MM Stainless Steel	IX8S - Compression fitting \varnothing 1/2" Stainless Steel
M10S - Compression fitting \varnothing 10 MM Stainless Steel	H04S - Hose nozzle 4,8 mm Stainless Steel
M12S - Compression fitting \varnothing 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 | Low Pressure | Dual Stage | 6-Port Version | Inlet Right

CSLLVDJ CSLLEDJ	R	00	FX	AX	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	AX 2 bar	01 Without (plugged)	01 Without (plugged)		
		0R LP* Regulating valve	GX 300 bar		BT Bourdon Tube	BT Bourdon Tube		
		PO HP** Purge valve			I1 Inductiv contact gauge I1	I2 Inductiv contact gauge I2		
		PS HP** Purge- and LP* Shut-off valve			R5 Reed contact gauge R5	I1 Inductiv contact gauge I1		
		PR HP** Purge- and LP* Regulating valve						
		30 HP** Triple purge block						
		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 **CPLLVDJR00FXAXI1BTN14FN14F**

* LP = Low pressure

** HP = High pressure

