

# CSLH0SJ | CSLHESJ – DRUVA®PUR CYLINDER REGULATOR

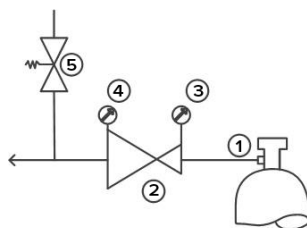
## CYLINDER REGULATOR | PURE LINE (STAINLESS STEEL) | 20 m³ SERIES | HIGH PRESSURE RANGE

### 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:

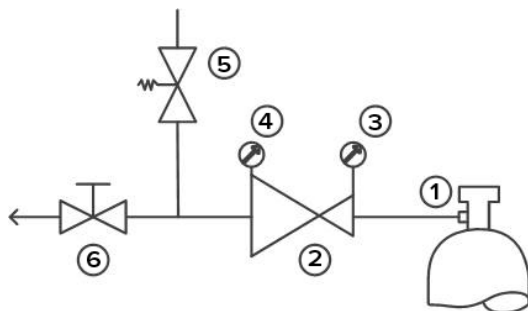
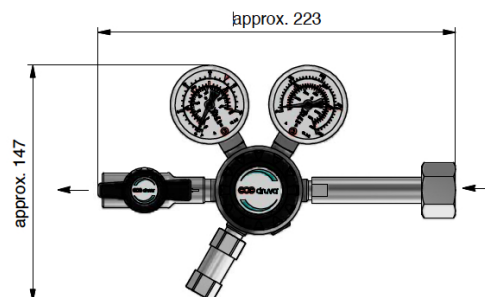
- > Hastelloy diaphragm tightening system to atmosphere
- > Available with several options (shut-off valve, regulating valve, purge valve, etc.), see drawing
- > Available with several international cylinder connections, see drawing
- > Compact design
- > Excellent pressure adjustment
- > Designed and 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                                      |                                                                                                                                                                                     |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Working temperature:</b>                         | -20 °C to +60 °C                                                                                                                                                                    |
| <b>Inlet port:</b>                                  | Cylinder connection according to national / international directives                                                                                                                |
| <b>Leakage rate seat:</b>                           | <5x10 <sup>-6</sup> mbar l/s (Helium)                                                                                                                                               |
| <b>Leakage rate outside:</b>                        | <1x10 <sup>-9</sup> mbar l/s (Helium)                                                                                                                                               |
| <b>Filter:</b>                                      | 1x for inlet<br>1x for each outlet                                                                                                                                                  |
| <b>Weight:</b>                                      | 4,04 kg                                                                                                                                                                             |
| <b>Flow nominal:</b>                                | 20 m³/h (N₂) according to ISO 7291 at 20 bar out                                                                                                                                    |
| <b>Material gas wetted parts</b>                    |                                                                                                                                                                                     |
| <b>Regulator body:</b>                              | Stainless Steel                                                                                                                                                                     |
| <b>Regulator diaphragm:</b>                         | Hastelloy                                                                                                                                                                           |
| <b>Regulator seat:</b>                              | PCTFE (P in > 50 bar)<br>PTFE (P in ≤ 50 bar)                                                                                                                                       |
| <b>Relief valve seat:</b>                           | CSLH0SJ-Version: FKM<br>CSLHESJ-Version: EPDM                                                                                                                                       |
| <b>Regulator poppet:</b>                            | Stainless Steel                                                                                                                                                                     |
| <b>Pressure rates cylinder regulator</b>            |                                                                                                                                                                                     |
| <b>Max. inlet pressure:</b>                         | 300 bar                                                                                                                                                                             |
| <b>Delivery pressure:</b>                           | 2/ 3/ 6/ 10/ 14/ 28/ 50/ 100/ 200 bar                                                                                                                                               |
| <b>Pressure gauges rates (pressure rates):</b>      | 2,5 (2)/ 5 (3)/ 10 (6)/ 25 (10, 14)/ 40 (28)/ 65 (50)/ 160 (100)/ 200 (315) bar                                                                                                     |
| <b>Contact gauges available – please contact us</b> |                                                                                                                                                                                     |
| <b>Cracking pressure relief valves:</b>             | 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                                                                            |
| <b>Test in production:</b>                          | 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                                                                                                                                                  |
| <b>Approvals during development:</b>                | 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<br>• Usable in EX-areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC |

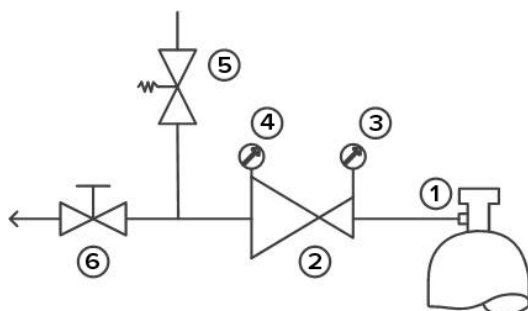
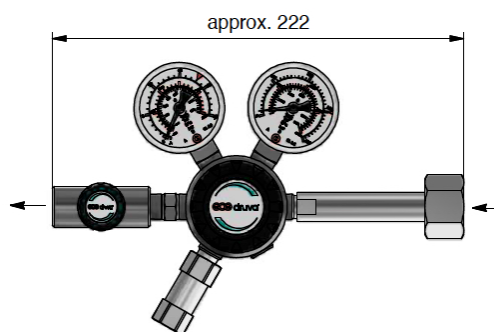
## OPTIONS OF CYLINDER PRESSURE REGULATOR CSLH0SJ | CSLHESJ:

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

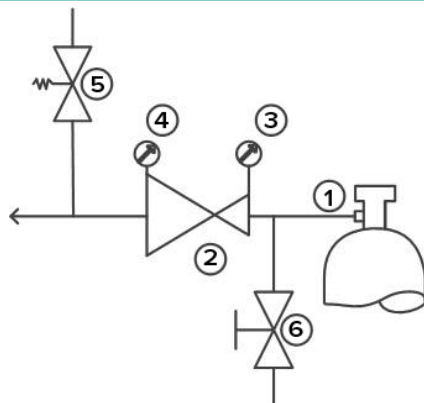
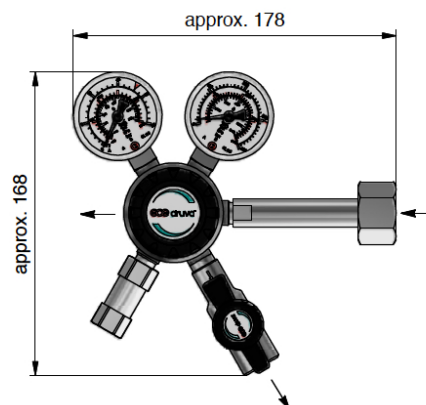
- 1 – Cylinder connection
- 2 – Pressure regulator
- 3 – Inlet pressure gauge
- 4 – Outlet pressure gauge
- 5 – Relief valve
- 6 – Outlet shut-off valve

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

Option-**P0**: with high pressure purge valve

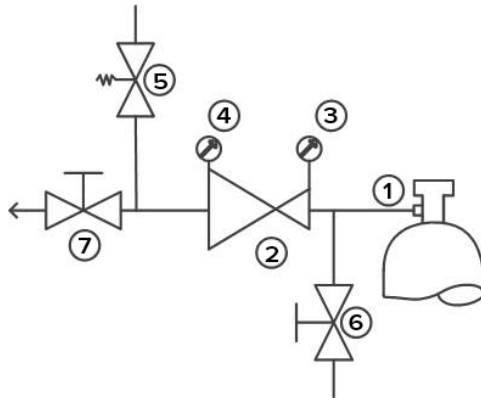
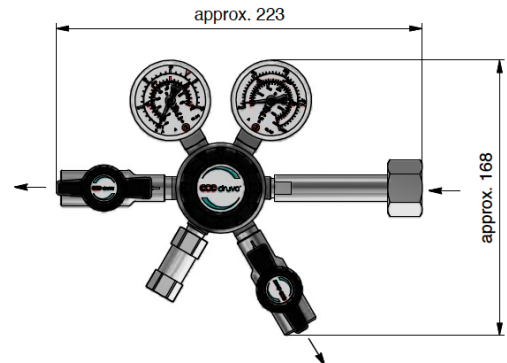
- 1 – Cylinder connection
- 2 – Pressure regulator
- 3 – Inlet pressure gauge
- 4 – Outlet pressure gauge
- 5 – Relief valve
- 6 – Purge valve



OPTIONS OF CYLINDER PRESSURE REGULATOR CSLH0SJ | CSLHESJ:

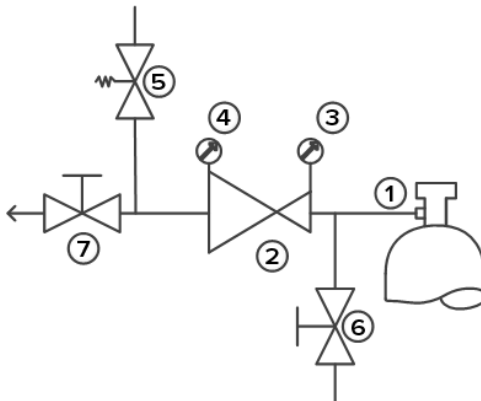
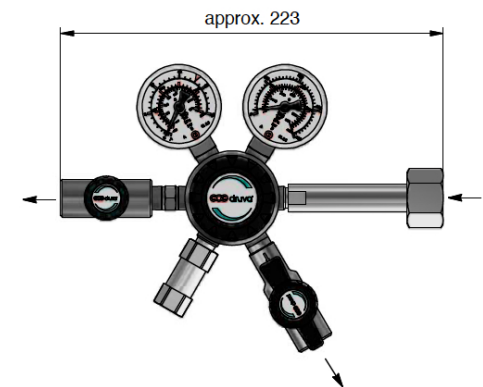
Option-**PS**: with high pressure purge valve & low pressure shut-off valve

- 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



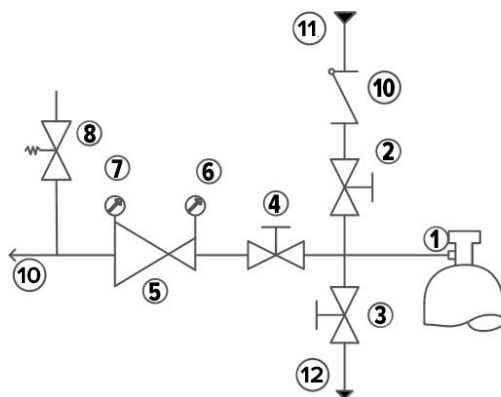
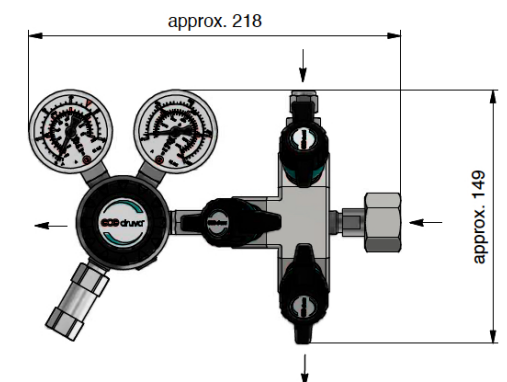
Option-**PR**: with high pressure purge valve & low pressure regulating valve

- 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

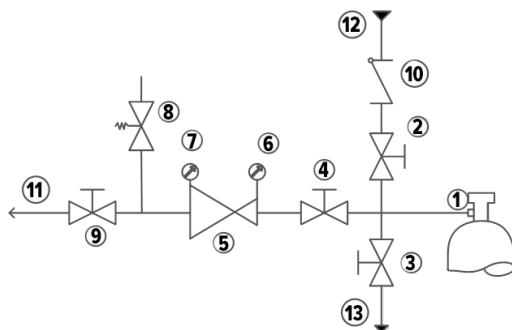
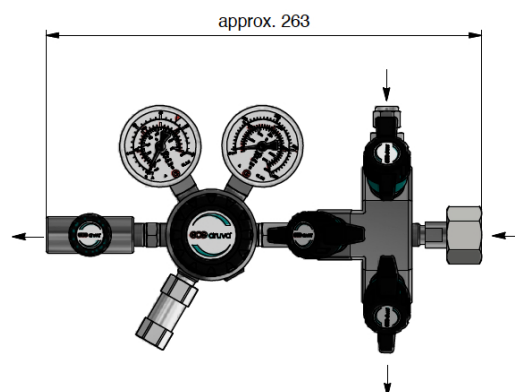
- 1 – Cylinder connection
- 2 – Purge inlet valve
- 3 – Purge outlet valve
- 4 – Inlet shut-off valve
- 5 – Pressure regulator
- 6 – Inlet pressure gauge
- 7 – Outlet pressure gauge
- 8 – Relief valve
- 9 – Check valve
- 10 – Process gas outlet
- 11 – Purge inlet
- 12 – Purge outlet



## OPTIONS OF CYLINDER PRESSURE REGULATOR CSLH0SJ | CSLHESJ:

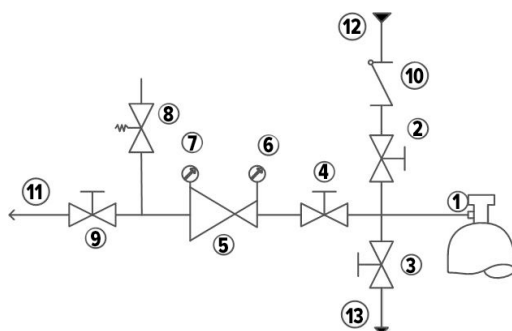
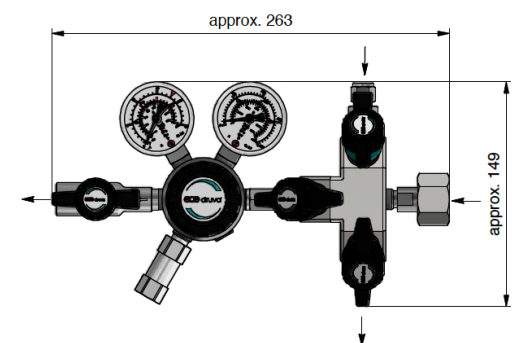
## Option-3R: with high pressure triple purge block &amp; low pressure regulating valve

- 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

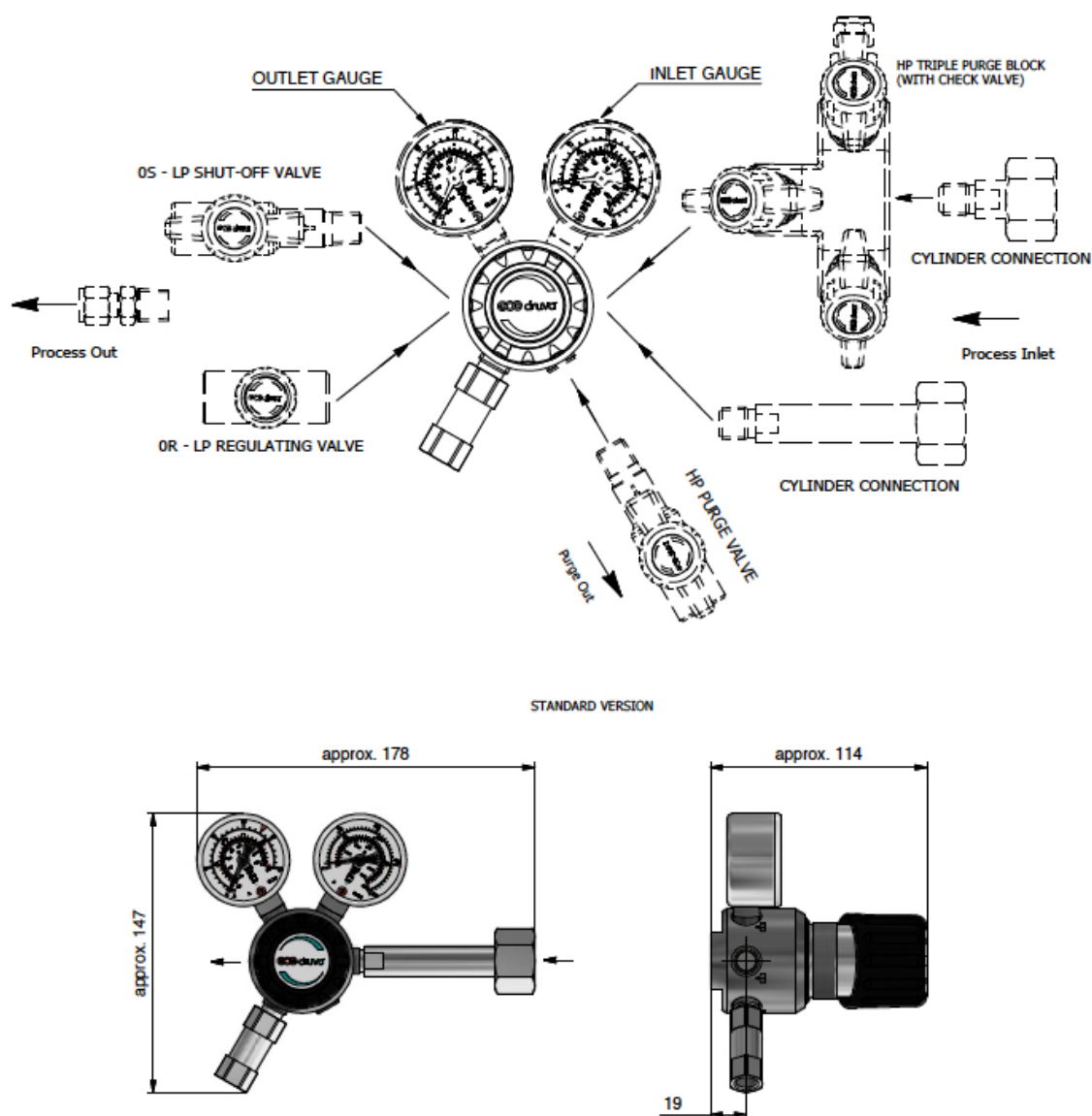


## Option-3S: with high pressure triple purge block &amp; low pressure shut-off valve

- 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

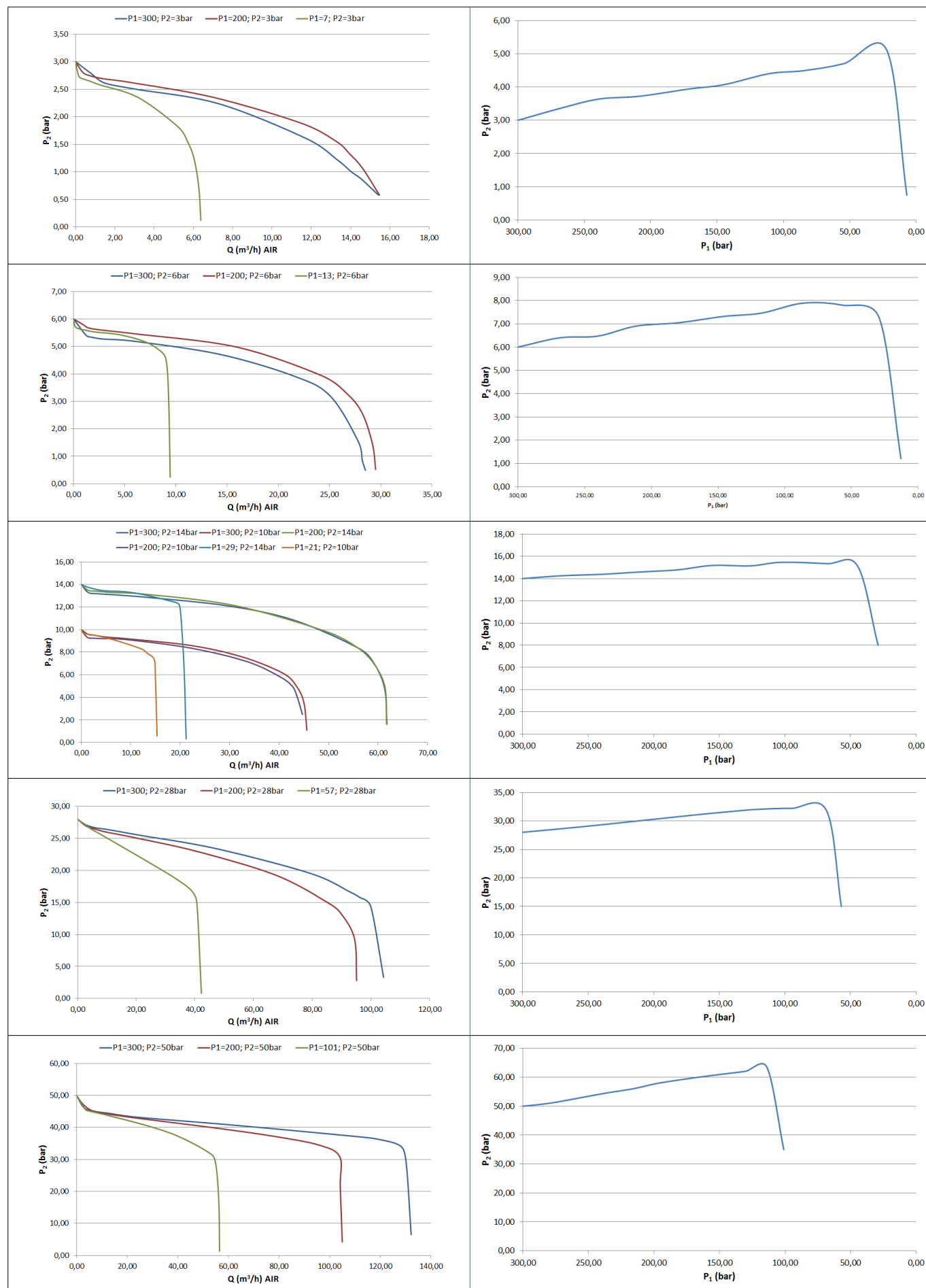
|        |                      |        |                       |                              |                       |
|--------|----------------------|--------|-----------------------|------------------------------|-----------------------|
| N14F00 | - NPT1/4" female     | DI005W | - DIN477 No 5 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

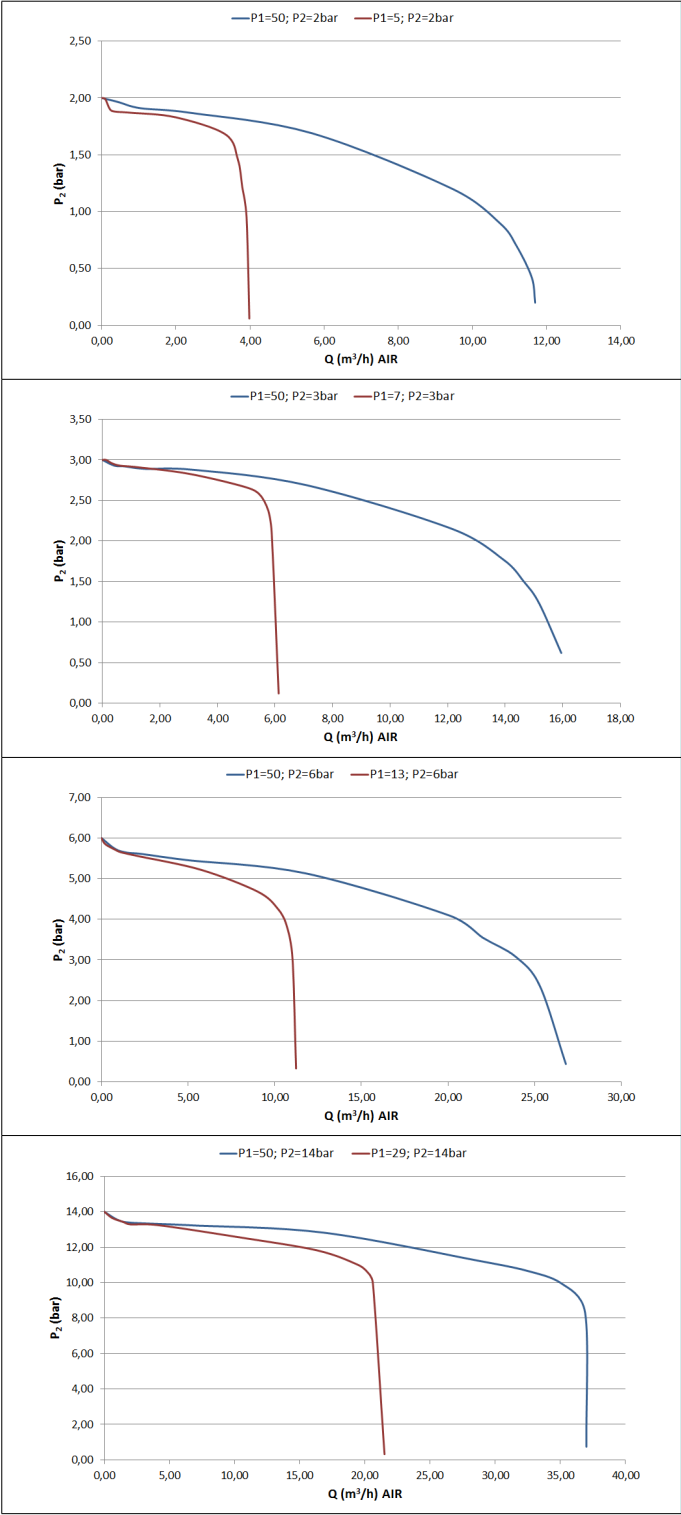
|      |                                                           |                          |                                                          |
|------|-----------------------------------------------------------|--------------------------|----------------------------------------------------------|
| 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 CURVES:

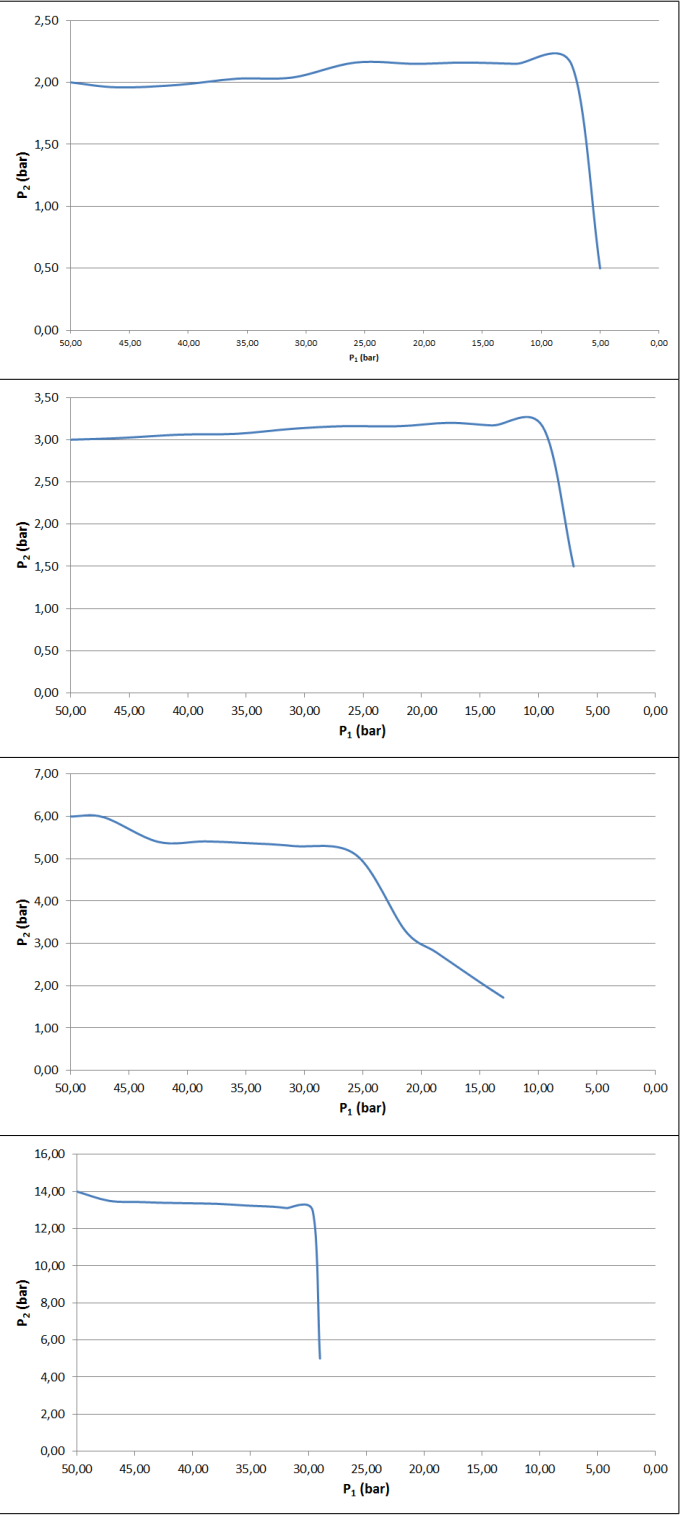
## DYNAMIC EXPANSION CURVES:



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<br>CSLHESJ | R             | 00                                                | EX              | AX              | I1                           | BT                               | N14F<br>(1/4" NPT female)                         | N14F<br>(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 | possible connections<br><br>see technical drawing | possible connections<br><br>see technical drawing |
|                    |               | 0S LP* Shut-off valve                             | F4 60 bar       | BX 3 bar        | 01 Without (plugged)         | 01 Without (plugged)             |                                                   |                                                   |
|                    |               | 0R 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     |                                                   |                                                   |
|                    |               | PR HP** Purge- and LP* Regulating valve           |                 | EY 28 bar       |                              |                                  |                                                   |                                                   |
|                    |               | 30 HP** Triple purge block                        |                 | EX 50 bar       |                              |                                  |                                                   |                                                   |
|                    |               | 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 &amp; out pressure FX=200 bar – no pressure relief valve (PRV) available



# CSLH0SJ | CSLHESJ – DRUVA®PUR FLASCHENDRUCKREGLER

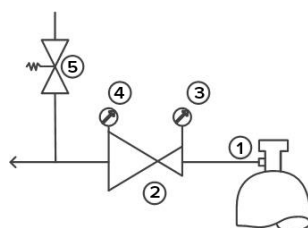
## FLASCHENDRUCKREGLER | PURE LINIE (EDELSTAHL) | 20 m³ SERIE | HOCHDRUCKVERSION

### EINSTUFIG | 6-PORT VERSION



Dieser einstufige Flaschendruckregler kommt zum Einsatz in Gasversorgungssystemen für reine, inerte, entzündbare, brandfördernde, ätzende und/ oder giftige Gase und deren Mischungen bis Gasereinheit 6.0.

#### Option-00:



- 1 – Flaschenanschluss
- 2 – Druckregler
- 3 – Eingangsmanometer
- 4 – Ausgangsmanometer
- 5 – Abblaseventil

Maße der Standardversion  
finden Sie in der technischen  
Zeichnung

#### TECHNISCHE SPEZIFIKATIONEN:

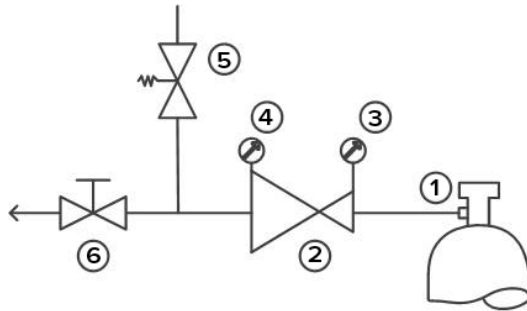
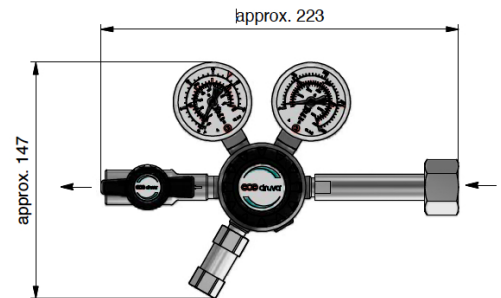
- > Abdichtung der Druckregler nach Außen durch Hastelloy Membranen
- > Erhältlich mit unterschiedlichen Optionen (Absperr-, Regulier- oder Spülventil (siehe Zeichnung))
- > Erhältlich mit unterschiedlichen Anschlüssen gemäß nationaler Standards (siehe Zeichnung)
- > Kompaktes Design
- > Sehr gute Regelbarkeit
- > Entwickelt, hergestellt und geprüft gemäß ISO7291
- > Abblaseventil auf der Hinterdruckseite
- > Prüfung zur Elektrostatischen Aufladung
  - Erfüllt die Anforderungen gemäß ISO 80079-36, IEC TS 60079-32-1 und der deutschen TRGS 727
  - Einsetzbar in EX-Zone 1 und 2 für Gase mit Explosionsrisiko der Gruppen I, IIA, IIB, IIC

| TECHNISCHE DATEN                                                                             |                                                                                                          |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Betriebstemperatur:</b>                                                                   | -20 °C to +60 °C                                                                                         |
| <b>Eingangs- und Ausgangsanschlüsse:</b>                                                     | siehe technische Zeichnung                                                                               |
| <b>Leckrate Sitz:</b>                                                                        | <5x10 <sup>-6</sup> mbar l/s (Helium)                                                                    |
| <b>Leckrate nach außen:</b>                                                                  | <1x10 <sup>-9</sup> mbar l/s (Helium)                                                                    |
| <b>Filter:</b>                                                                               | 1x Eingang<br>1x pro Ausgang                                                                             |
| <b>Gewicht:</b>                                                                              | 4,04 kg                                                                                                  |
| <b>Nominaler Durchfluss:</b>                                                                 | 20 m³/h (N₂) gemäß ISO 7291 bei 20 bar Ausgangs- und 41 bar Eingangsdruck                                |
| <b>Material gasberührte Teile:</b>                                                           |                                                                                                          |
| <b>Druckreglerkörper:</b>                                                                    | Edelstahl                                                                                                |
| <b>Druckreglermembran:</b>                                                                   | Hastelloy                                                                                                |
| <b>Druckreglersitz:</b>                                                                      | PCTFE (P in > 50 bar)<br>PTFE (P in ≤ 50 bar)                                                            |
| <b>Abblaseventil Sitz:</b>                                                                   |                                                                                                          |
| CSLH0SJ-Version                                                                              | FKM                                                                                                      |
| CSLHESJ-Version                                                                              | EPDM                                                                                                     |
| <b>Druckreglerschieber:</b>                                                                  | Edelstahl                                                                                                |
| <b>Druckbereiche Leitungsdruckregler</b>                                                     |                                                                                                          |
| <b>Max. Eingangsdruck:</b>                                                                   | 300 bar                                                                                                  |
| <b>Mögliche Ausgangsdrücke:</b>                                                              | 2/ 3/ 6/ 10/ 14/ 28/ 50/ 100/ 200 bar                                                                    |
| <b>Manometerdruckanzeige<br/>(in Klammern – Ausgangsdruckstufe):</b>                         | 2,5 (2)/ 5 (3)/ 10 (6)/ 25 (10, 14)/ 40 (28)/ 65 (50)/ 160 (100)/ 200 (315) bar                          |
| <b>Auf Anfrage Kontaktmanometer erhältlich</b>                                               |                                                                                                          |
| <b>Ansprechdruck Abblaseventil<br/>(in Klammern – Ausgangsdruckstufe):</b>                   | 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 |
| <b>Produktionstest:</b>                                                                      |                                                                                                          |
| Drucktest mit Helium für jeden Druckregler                                                   |                                                                                                          |
| Helium- Lecktest zur Prüfung der Dichtheit über den Druckreglersitz                          |                                                                                                          |
| Helium- Lecktest für jeden Druckregler zur Prüfung der Dichtheit nach außen                  |                                                                                                          |
| Funktionstest für jeden Druckregler                                                          |                                                                                                          |
| <b>Tests während der Entwicklung:</b>                                                        |                                                                                                          |
| Typtest gemäß ISO 7291                                                                       |                                                                                                          |
| Zusätzlicher Lebensdauertest                                                                 |                                                                                                          |
| Prüfung zur Elektrostatischen Aufladung                                                      |                                                                                                          |
| • Erfüllt die Anforderungen gemäß ISO 80079-36, IEC TS 60079-32-1 und der deutschen TRGS 727 |                                                                                                          |
| • Einsetzbar in Ex-Zone 1 und 2 für Gase mit Explosionsrisiko der Gruppen I, IIA, IIB, IIC   |                                                                                                          |

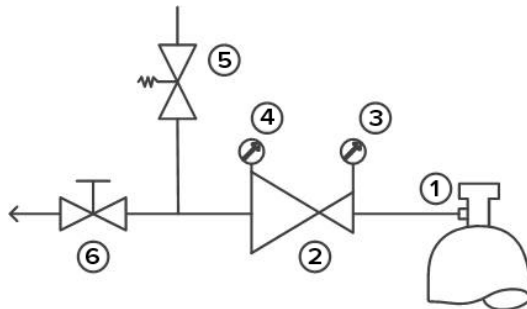
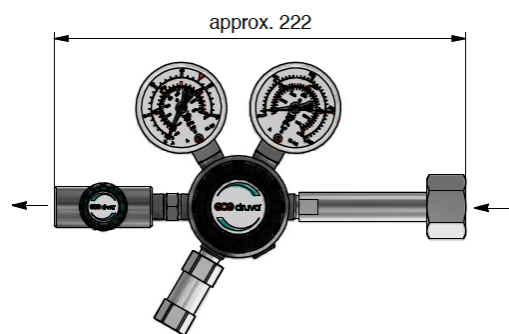
## OPTIONEN DES FLASCHENDRUCKREGLER CSLH0SJ | CSLHESJ:

Option-**OS**: mit Niederdruck Absperrventil

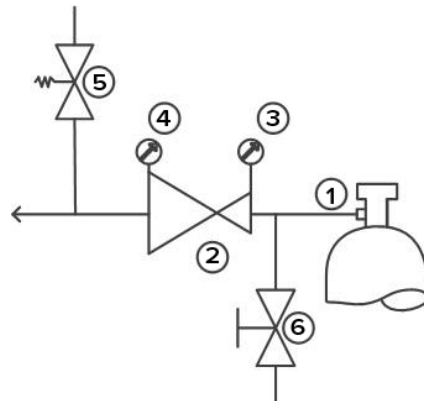
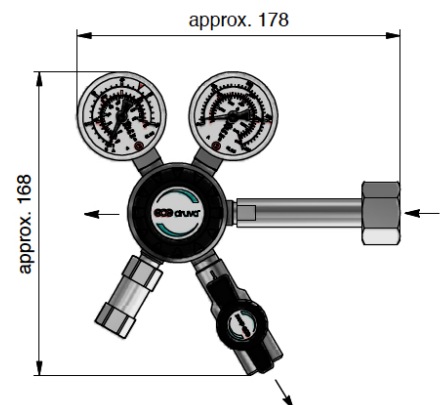
- 1 – Flaschenanschluss
- 2 – Druckregler
- 3 – Eingangsmanometer
- 4 – Ausgangsmanometer
- 5 – Abblaseventil
- 6 – Ausgangsabsperrierventil

Option-**OR**: mit Niederdruck Regulierventil

- 1 – Flaschenanschluss
- 2 – Druckregler
- 3 – Eingangsmanometer
- 4 – Ausgangsmanometer
- 5 – Abblaseventil
- 6 – Ausgangsreguliertventil

Option-**P0**: mit Hochdruck Spülventil

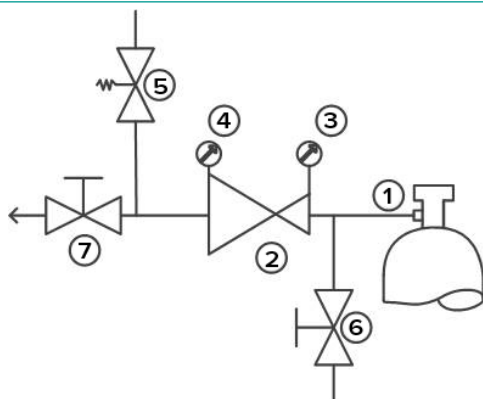
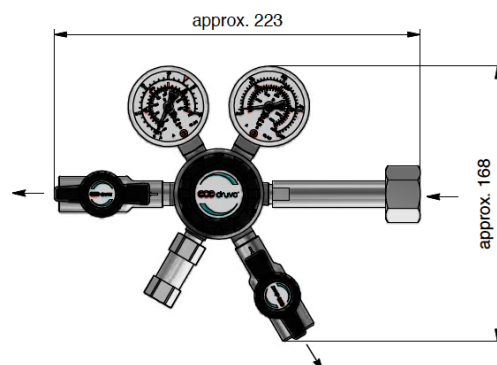
- 1 – Flaschenanschluss
- 2 – Druckregler
- 3 – Eingangsmanometer
- 4 – Ausgangsmanometer
- 5 – Abblaseventil
- 6 – Spülventil



## OPTIONEN DES FLASCHENDRUCKREGLER CSLH0DJ | CSLHEDJ:

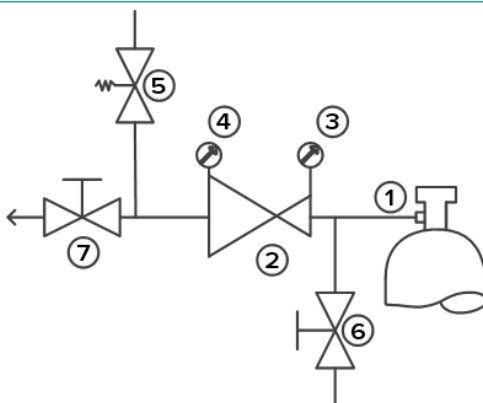
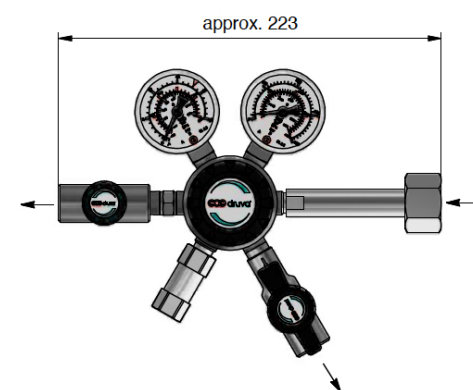
### Option-PS: mit Hochdruck Spülventil & Niederdruck Absperrventil

- 1 – Flaschenanschluss
- 2 – Druckregler
- 3 – Eingangsmanometer
- 4 – Ausgangsmanometer
- 5 – Abblaseventil
- 6 – Spülventil
- 7 – Ausgangsabsperrentil



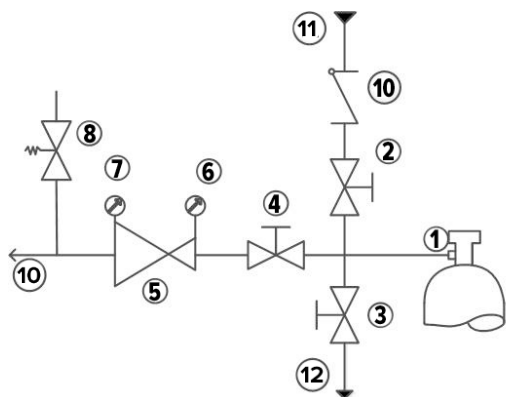
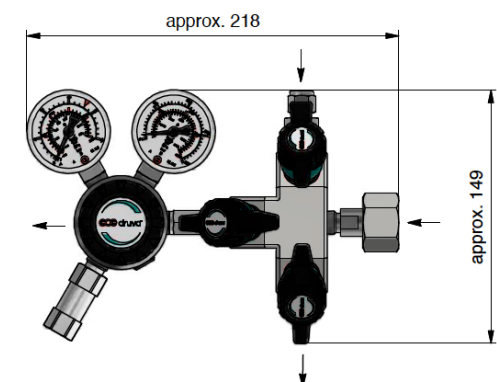
### Option-PR: mit Hochdruck Spülventil & Niederdruck Regulierventil

- 1 – Flaschenanschluss
- 2 – Druckregler
- 3 – Eingangsmanometer
- 4 – Ausgangsmanometer
- 5 – Abblaseventil
- 6 – Spülventil
- 7 – Ausgangsreguliertventil



### Option-30: mit Hochdruck 3-fach Spülblock

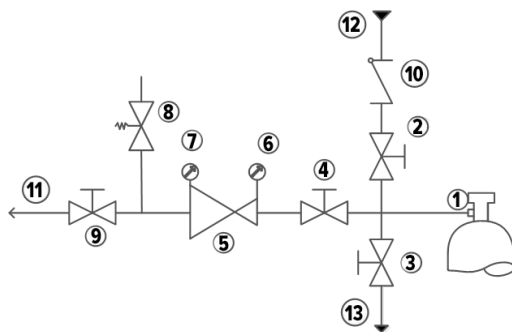
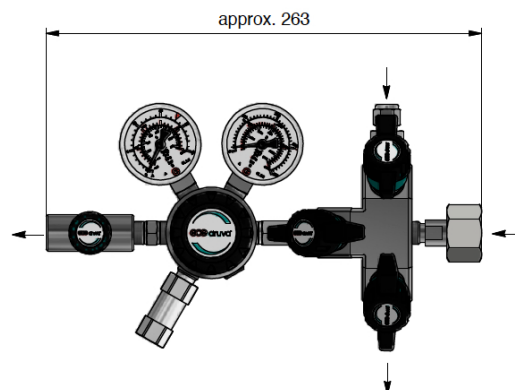
- 1 – Flaschenanschluss
- 2 – Eingangsspülventil
- 3 – Ausgangsspülventil
- 4 – Eingangsabsperrentil
- 5 – Druckregler
- 6 – Eingangsmanometer
- 7 – Ausgangsmanometer
- 8 – Abblaseventil
- 9 – Rückschlagventil
- 10 – Prozessgas Ausgang
- 11 – Spülen Eingang
- 12 – Spülen Eingang



## OPTIONEN DES FLASCHENDRUCKREGLER CSLH0DJ | CSLHEDJ:

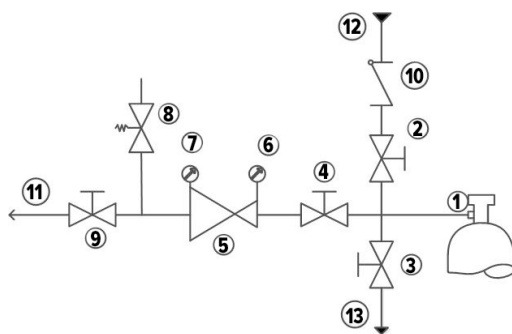
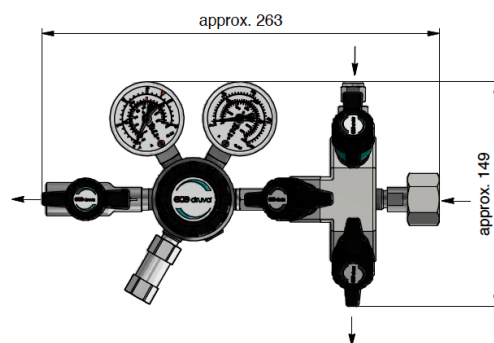
## Option-3R: mit Hochdruck 3-fach Spülblock &amp; Niederdruck Regulierventil

- 1 – Flaschenanschluss
- 2 – Eingangsspülventil
- 3 – Ausgangsspülventil
- 4 – Eingangsabsperrentil
- 5 – Druckregler
- 6 – Eingangsmanometer
- 7 – Ausgangsmanometer
- 8 – Abblaseventil
- 9 – Ausgangsregulierventil
- 10 – Rückschlagventil
- 11 – Prozessgas Ausgang
- 12 – Spülen Eingang
- 13 – Spülen Ausgang

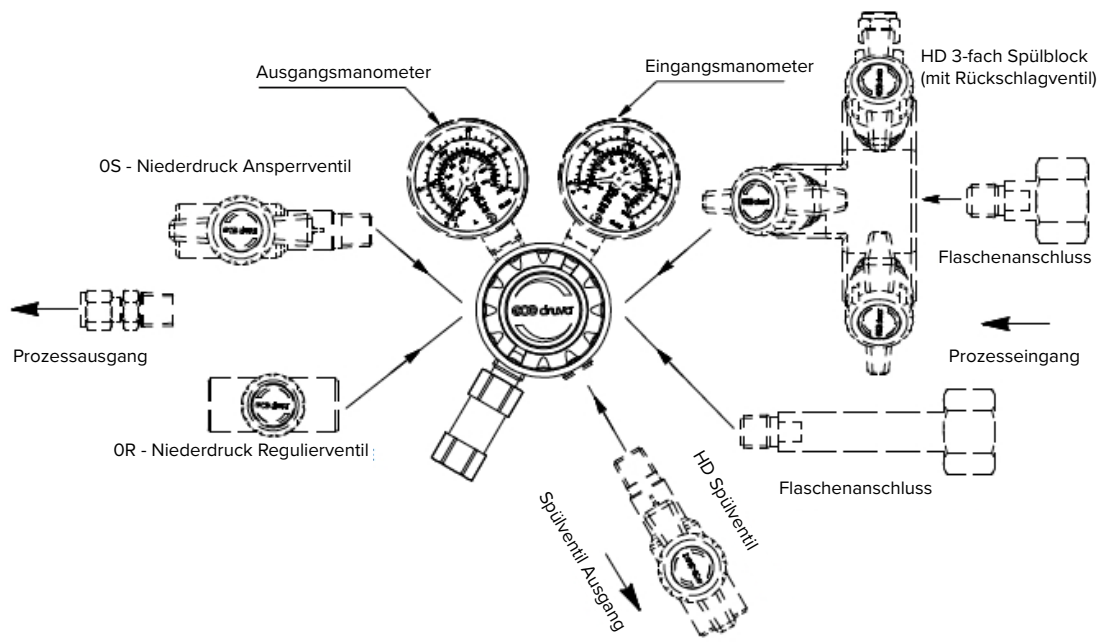


## Option-3S: mit Hochdruck 3-fach Spülblock &amp; Niederdruck Absperrventil

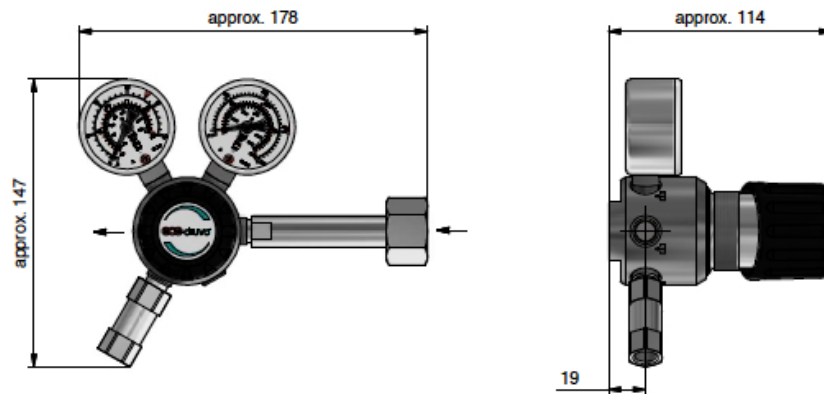
- 1 – Flaschenanschluss
- 2 – Eingangsspülventil
- 3 – Ausgangsspülventil
- 4 – Eingangsabsperrentil
- 5 – Druckregler
- 6 – Eingangsmanometer
- 7 – Ausgangsmanometer
- 8 – Abblaseventil
- 9 – Ausgangsabsperrentil
- 10 – Rückschlagventil
- 11 – Prozessgas Ausgang
- 12 – Spülen Eingang
- 13 – Spülen Ausgang



## TECHNISCHE ZEICHNUNG:



STANDARD VERSION



### Liste der möglichen Flaschenanschlüsse

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

DI005W - DIN477 No 5 Sechskant  
 DI006H - DIN477 No 6 Hand  
 DI006W - DIN477 No 6 Sechskant  
 DI007W - DIN477 No 7 Sechskant  
 DI008W - DIN477 No 8 Sechskant  
 DI009W - DIN477 No 9 Sechskant  
 DI010H - DIN477 No 10 Hand  
 DI010W - DIN477 No 10 Sechskant  
 DI011W - DIN477 No 11 Sechskant  
 DI013W - DIN477 No 13 Sechskant  
 DI014H - DIN477 No 14 Hand  
 DI014W - DIN477 No 14 Sechskant

DI054H - DIN477 No 54 Hand  
 DI054W - DIN477 No 54 Sechskant  
 DI057W - DIN477 No 57 Sechskant  
 DI059W - DIN477 No 59 Sechskant  
 NELU1W - NEN LU1 Sechskant  
 NELU4W - NEN LU4 Sechskant  
 NERI2W - NEN RI2 Sechskant  
 NERU1W - NEN RU1 Sechskant  
 NERU3W - NEN RU3 Sechskant  
 NF00CW - AFNOR Type C Sechskant  
 NF00FW - AFNOR Type F Sechskant  
 Andere Verbindungen auf Anfrage

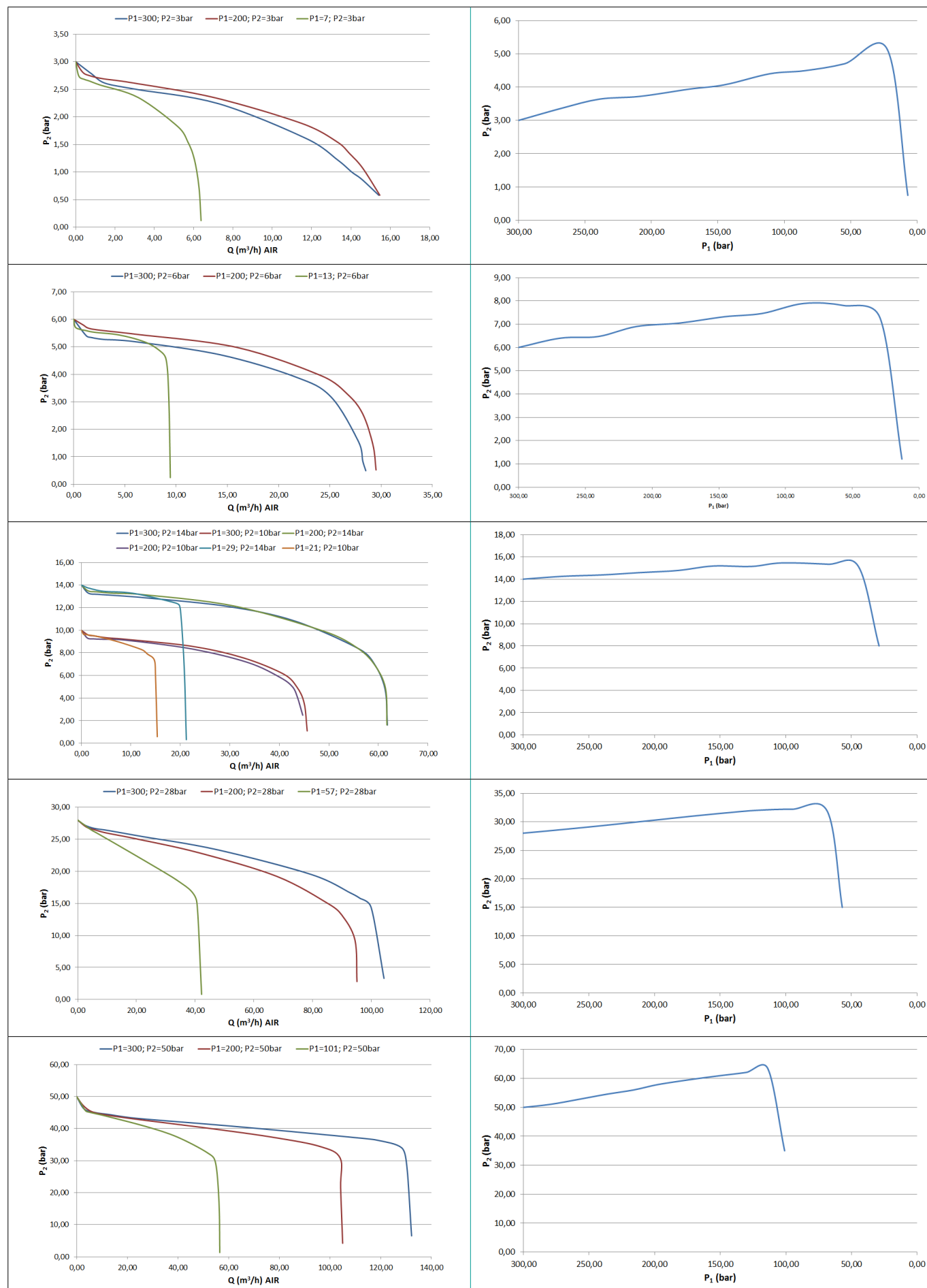
### Liste der möglichen Prozessanschlüsse

N14F - NPT1/4" female  
 M03S - Klemmring ø 3 MM Edelstahl  
 M06S - Klemmring ø 6 MM Edelstahl  
 M08S - Klemmring ø 8 MM Edelstahl  
 M10S - Klemmring ø 10 MM Edelstahl  
 M12S - Klemmring ø 12 MM Edelstahl

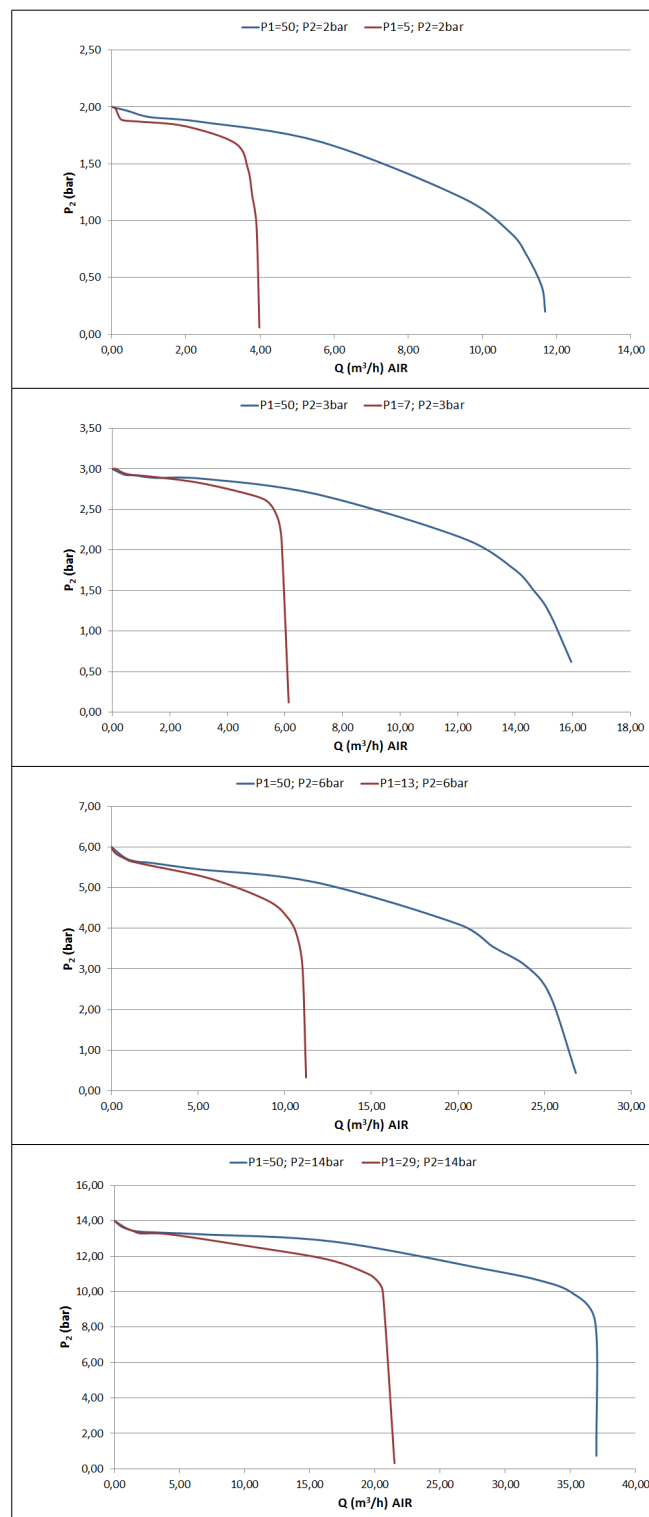
IX2S - Klemmring ø 1/8" Edelstahl  
 IX4S - Klemmring ø 1/4" Edelstahl  
 IX6S - Klemmring ø 3/8" Edelstahl  
 IX8S - Klemmring ø 1/2" Edelstahl  
 H04S - Schlauchtülle 4,8 mm Edelstahl  
 H06S - Schlauchtülle 6,4 mm Edelstahl  
 H08S - Schlauchtülle 8,0 mm Edelstahl  
 Schlauchtüllen max. 15 bar.

## FLIESSKURVEN:

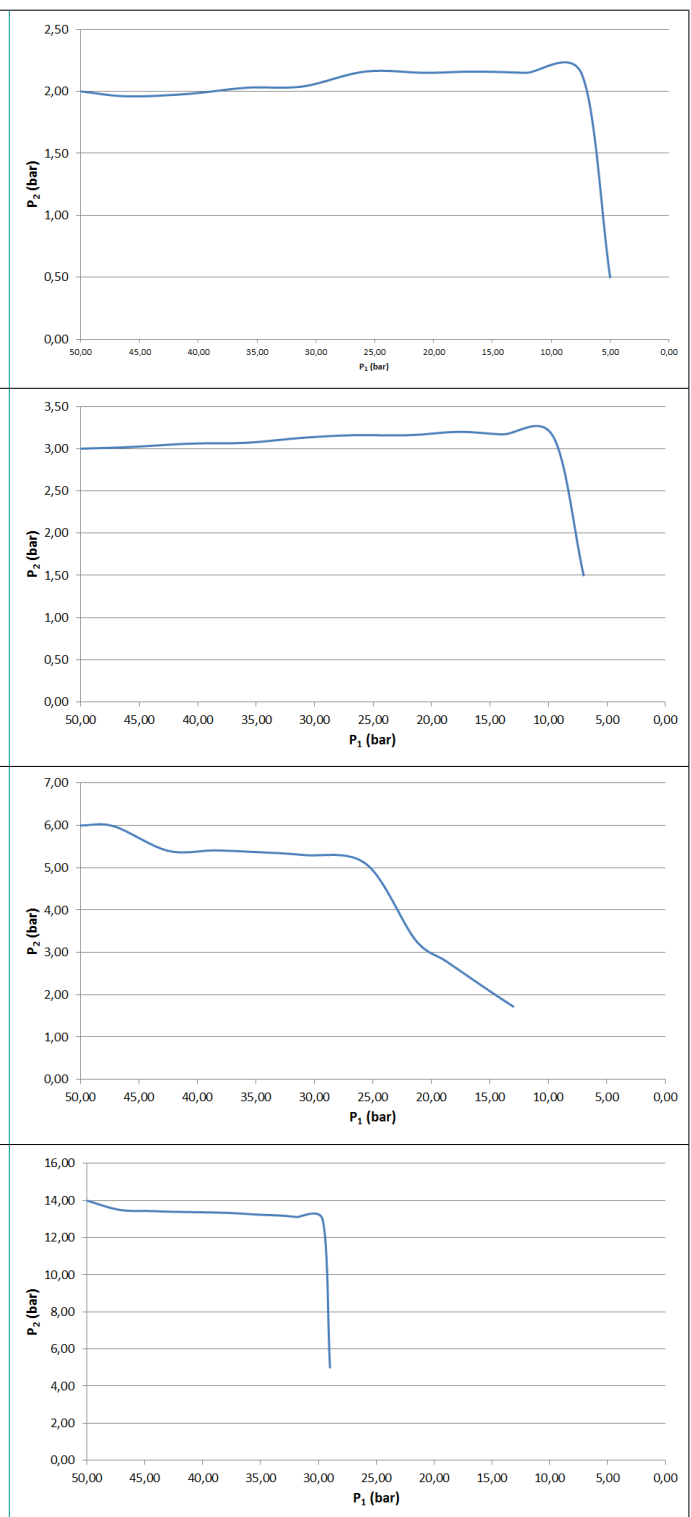
## DYNAMISCHE ENTSPANNUNGSKURVEN:



## FLIESSKURVEN:



## DYNAMISCHE ENTSPANNUNGSKURVEN:



## BESTELLINFORMATION:

Beispiel für einen Flaschendruckregler | PUR Linie | Edelstahl | Low Flow | Hochdruck | Einstufig | 6-Port Version | Eingang rechts

| CSLH0SJ<br>CSLHESJ | R                   | 00                                                    | EX                 | AX                 | I1                                      | BT                                      | N14F<br>(1/4" NPT female)        | N14F<br>(1/4" NPT female)        |
|--------------------|---------------------|-------------------------------------------------------|--------------------|--------------------|-----------------------------------------|-----------------------------------------|----------------------------------|----------------------------------|
|                    | Porting             | Optionen                                              | Eingangs-<br>druck | Ausgangs-<br>druck | Eingangs-<br>druck<br>Manometer         | Ausgangs-<br>druck<br>Manometer         | Flaschen-<br>anschluss           | Ausgangs-<br>anschluss           |
|                    | R Eingang<br>rechts | 00 Ohne Optionen                                      | EX 50 bar          | AX 2 bar ***       | 00 Ohne Manometer<br>1/4" NPT female    | 00 Ohne Manometer<br>1/4" NPT female    | mögliche<br>Anschlüsse           | mögliche<br>Anschlüsse           |
|                    |                     | 0S ND* Absperrventil                                  | F4 60 bar          | BX 3 bar           | 01 Ohne Manometer<br>Verschluss-Stopfen | 01 Ohne Manometer<br>Verschluss-Stopfen |                                  |                                  |
|                    |                     | 0R ND* Regulierventil                                 | FX 200 bar ****    | CX 6 bar           | BT Bourdon Tube<br>Manometer            | BT Bourdon Tube<br>Manometer            |                                  |                                  |
|                    |                     | P0 HD** Spülventil                                    | GX 300 bar         | D2 10 bar          | I1 Induktiv Kontakt<br>Manometer I1     | I2 Induktiv Kontakt-<br>manometer I2    |                                  |                                  |
|                    |                     | PS HD** Spül- und ND*<br>Absperrventil                |                    | DX 14 bar          | R5 Reed Kontakt<br>Manometer R5         | I1 Induktiv Kontakt-<br>manometer I1    |                                  |                                  |
|                    |                     | PR HD** Spül- und<br>ND* Regulierventil               |                    | EY 28 bar          |                                         |                                         |                                  |                                  |
|                    |                     | 30 HD** 3-fach<br>Spülblock                           |                    | EX 50 bar          |                                         |                                         |                                  |                                  |
|                    |                     | 3S HD** 3-fach<br>Spülblock und ND*<br>Absperrventil  |                    | F2 100 bar         |                                         |                                         |                                  |                                  |
|                    |                     | 3R HD** 3-fach<br>Spülblock und ND*<br>Regulierventil |                    | FX 200 bar ****    |                                         |                                         | siehe<br>technische<br>Zeichnung | siehe<br>technische<br>Zeichnung |

Bestellnummern (wie im Beispiel oben) bitte ohne Sonder- oder Leerzeichen verwenden! Komplette Bestellnummer lautet **CSLH0SJ R00EXAXI1BTN14FN14F**

\* ND = Niederdruck

\*\* HD = Hochdruck

\*\*\* nur für Eingangsdruck 50 bar

\*\*\*\* Eingangs- und Ausgangsdruck FX=200 bar – kein Ablaseventil (PRV) erhältlich

