

Type GSP / Type LGSP

Safe and simple sampling of gaseous media

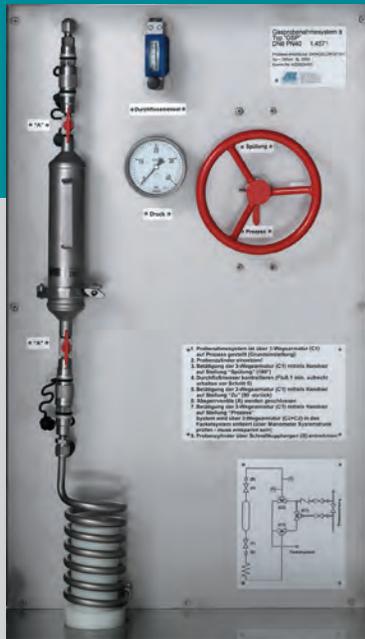


for gas and liquid gas
sampling volume per operation:
0.6 / 1.3 / 2.1 US.cup

- safe and contamination-free

Class 150 - 600

Ventilation: internally back to
system

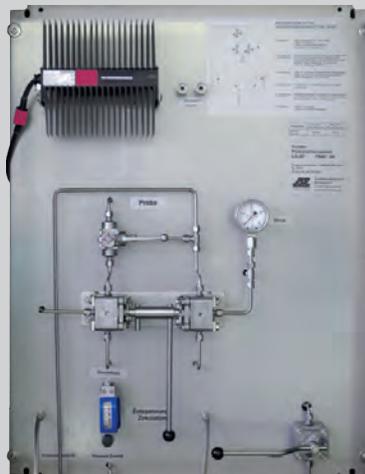


Type GSP

Gas sampling system
(sampling cylinder at
control panel)

Design characteristics

- closed system
- representative, contamination free sample
- defined sampling quantity
- integrated system purge
- all components mounted on ready-to-install stainless steel plate
- bypass assembly



Type LGSP

Liquid gas sampling
system (sampling
container outside
of the control panel)

Options

- protection box (lockable, heatable)

Material

- valves, pipes and pressure cylinder made of stainless steel, other on request

Approvals

Pressure cylinder acc. to TPED (Transportable Pressure Equipment Directive) or DOT (US Department of Transportation)



PT diagram, plug types, sealing systems, material selection: see catalog part ENGINEERING

Standard sample cylinder



Sample cylinders for gas and liquid gas

- cylinder volume 150, 300 or 500 cm³, other on request
- material for cylinder, couplings and connections in Stainless steel (304L or 316L), other on request
- different pressure ratings, depending on the material and temperature load in the system or from media
- cylinder according TPED or other on request

Media: gas



Recommendation for filling

- fill gaseous media from top to bottom (to remove condensate)
- any increase in volume or pressure at ambient temperatures must be taken into account when calculating the necessary pressure rating of system or cylinder

Media: liquid gas



Recommendation for filling

- fill liquid gas from bottom to top (to discharge gases)

• filling pipe (length determines the size of the vapor volume)

• vapor space

• sampling volume

• cylinder volume =
sampling volume
+ vapor space

Type GSP / Type LGSP

Type overview

Functionality

Gas sample drawing with GSP

- the flushing of the complete, closed system incl. cylinder ensures optimal collection of a representative, contamination-free sample
- safe sample drawing (leakage free / self-closing) with only one handwheel
- sampling cylinder can easily be removed by quick couplings and contamination-free sample quantity

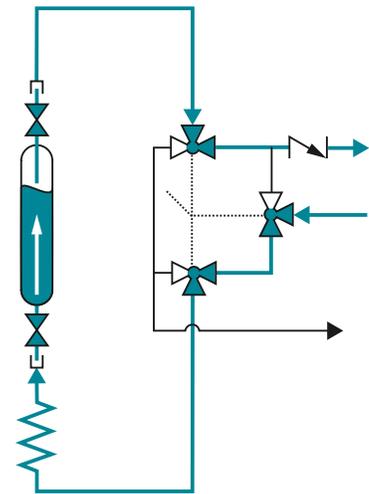
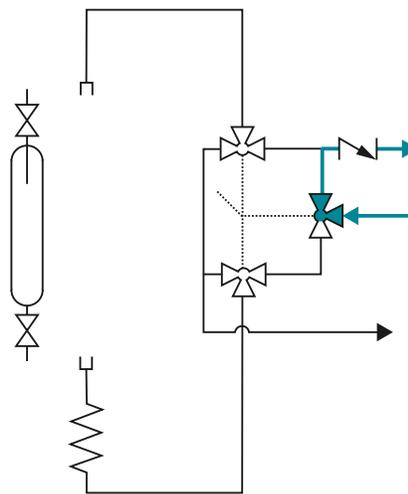


Design for continuous flow when not in use with three interconnected 3-way plug valves

type GSL-3 (gas)

type LGSP-3 (liquid gas)

- Example LGSP-3

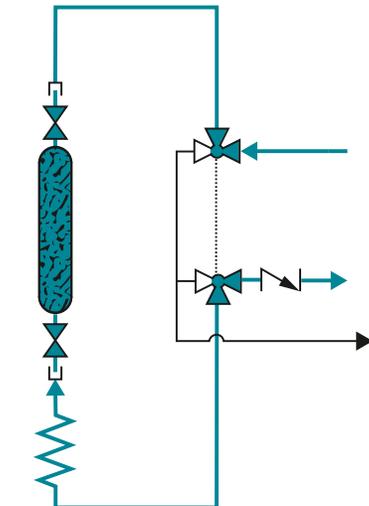
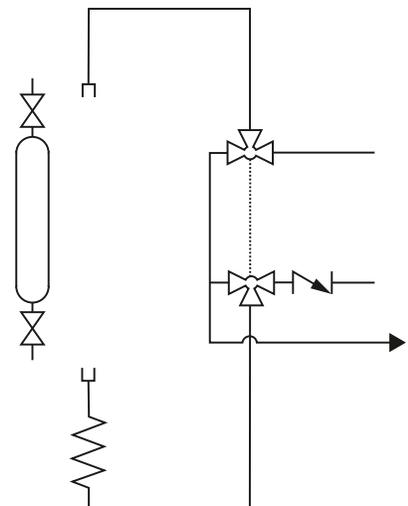


Design for temporary flow with two interconnected 3-way plug valves

type GSL-2 (Gase)

type LGSP-2 (Flüssiggase)

- Example GSP-2



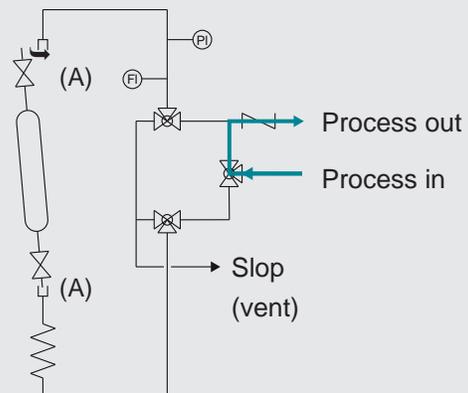
Example for sampling drawing with LGSP-3

1. Basic position

Handwheel position

PROCESS (0°)

- no-flow through system
- inserting of sample container
- open cylinder, shut-off valves (A)

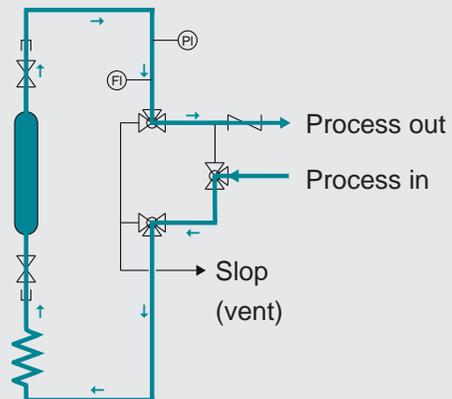


2. System purge

Handwheel position

PURGE (180°)

- purge system for a few minutes

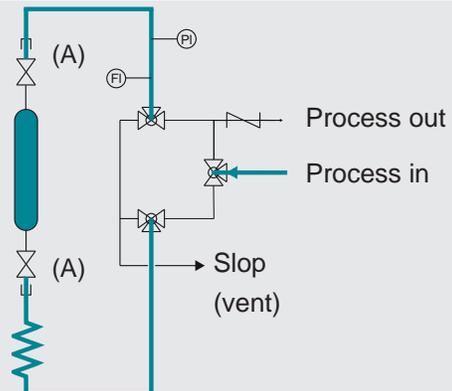


3. Closing

Handwheel position

CLOSE (90°)

- system isolated from process
- media contained
- sampling cylinder filled
- close cylinder, shut-off valves (A)



4. Depressurization & removal

Handwheel position

PROCESS (0°)

- no-flow through system
- depressurization of system via slop/flame
- open quick connects (B)
- remove sample cylinder

