

# Type GSP / Type LGSP

## Safe and simple sampling of gaseous media



for gas and liquid gas  
sampling volume per operation:

150 / 300 / 500 cm<sup>3</sup>

- safe and contamination-free

PN 10 - 100

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

### 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)



### Type LGSP

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



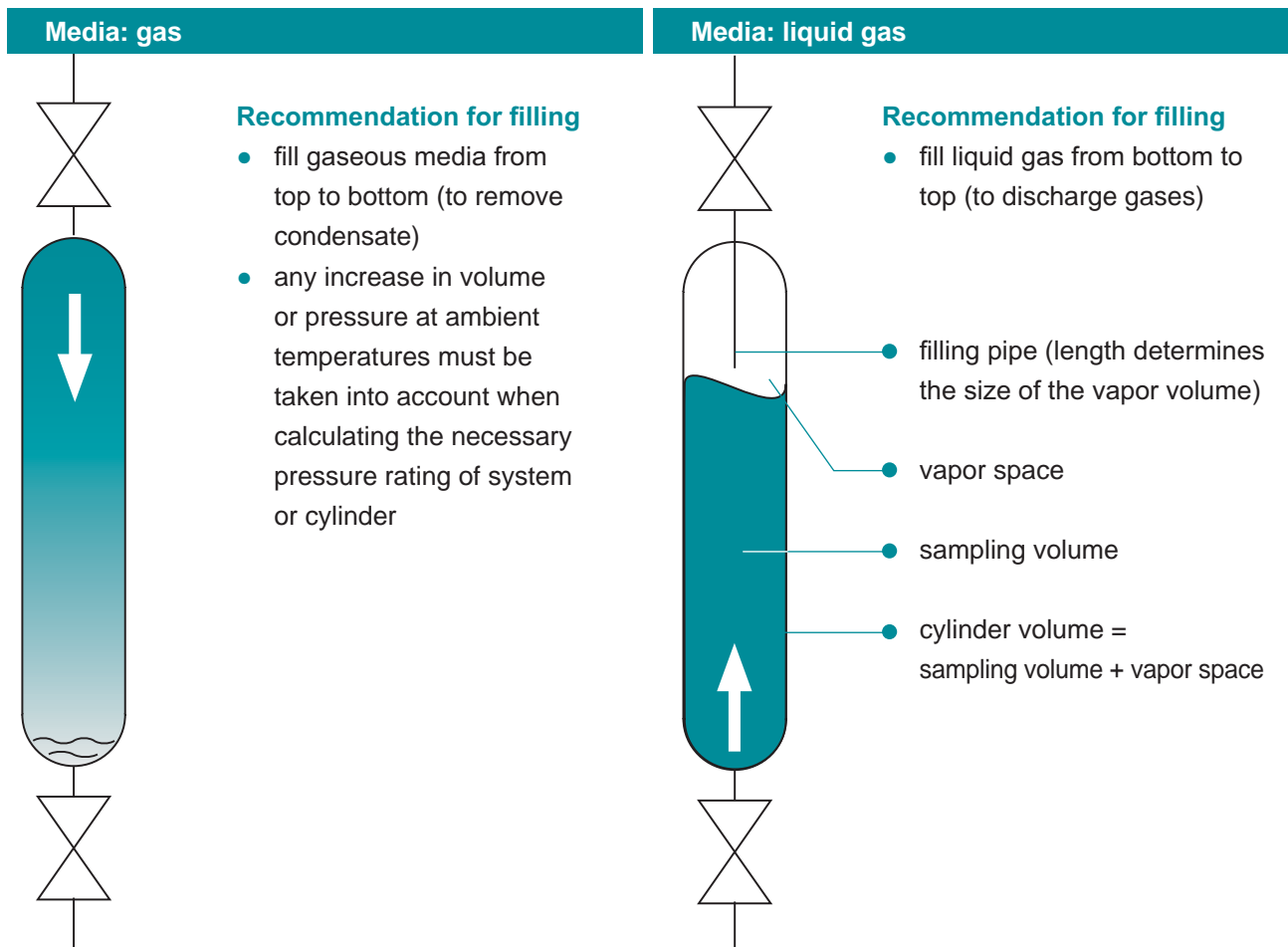
PT diagram, plug types, sealing systems, material selection: see catalogue part ENGINEERING

# Standard sample cylinder



## Sample cylinders for gas and liquid gas

- cylinder volume 150, 300 or 500 cm<sup>3</sup>, 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



# 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

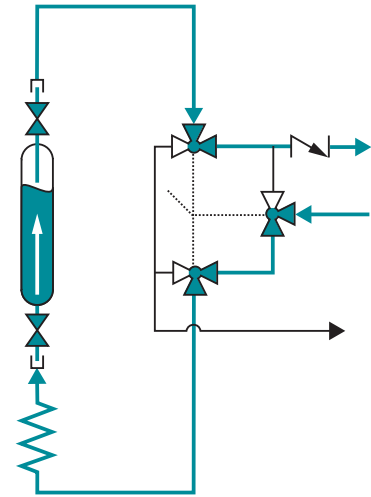
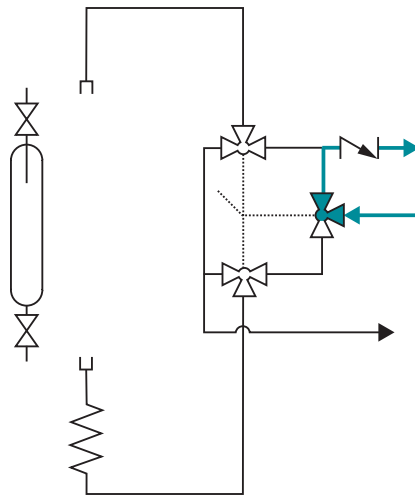


Design for continuous flow when not in use with three interconnected 3-way plug valves

**type GSL-3 (gas)**

**type LGSP-3 (liquid gas)**

- Example LGSP-3

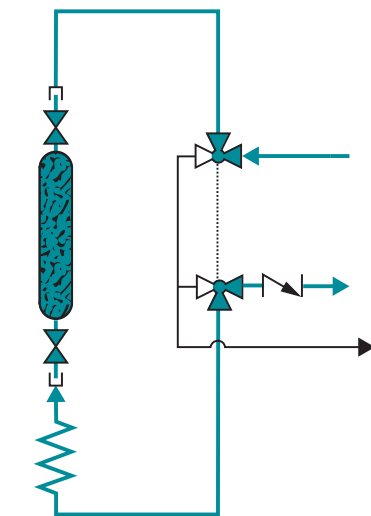
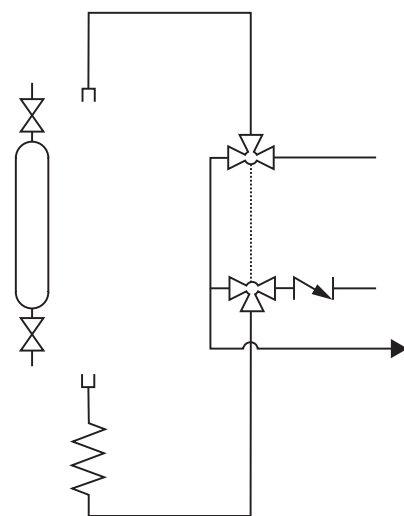


Design for temporary flow with two interconnected 3-way plug valves

**type GSL-2 (gas)**

**type LGSP-2 (liquid gas)**

- Example GSP-2



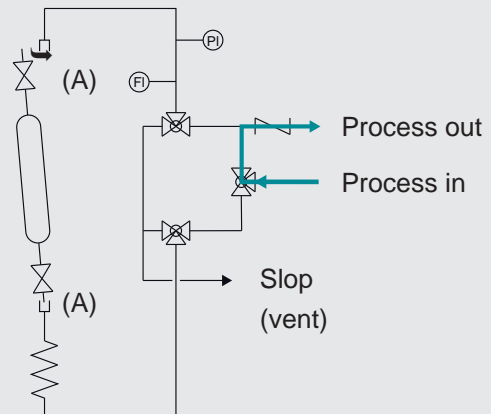
# Example for sampling drawing with LGSP-3

## 1. Basic position

Handwheel position

**PROCESS (0°)**

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

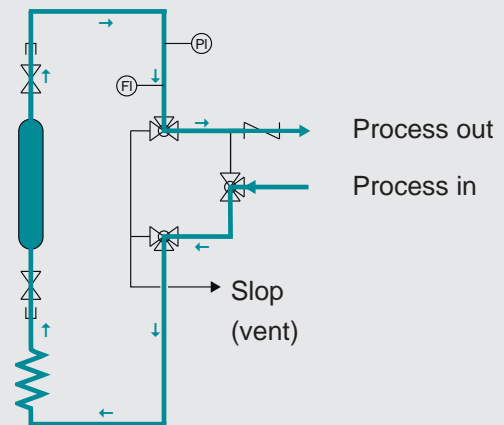


## 2. System purge

Handwheel position

**PURGE (180°)**

- purge system for a few minutes

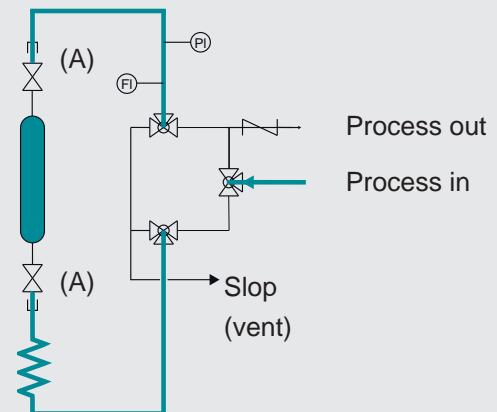


## 3. Closing

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

