

# KP-S

## Sampling directly from the container/tank

- for liquid media
- für media containing solids
- Ventilation: system external to atmosphere

DN 15 - 100, PN 10 - 40

NPS ½" - 4" / Class 150 - 300

Application range:  $-29 < T < 230^{\circ}\text{C}$ , vacuum  $10^{-8}$  mbar



## Design Features

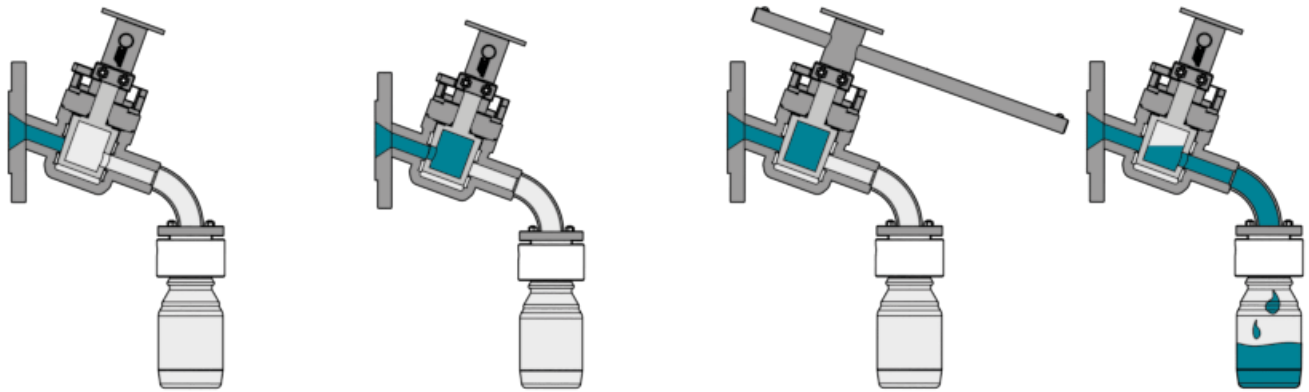
### Design Features

- sampling directly from container or tank
- defined representative sample quantity
- sample quantity from Pmin 25 ml to Pmax 100 ml

### Options

- heating jacket
- purging device
- automation
- adapter for laboratory bottle with custom thread

### Working principle



default position

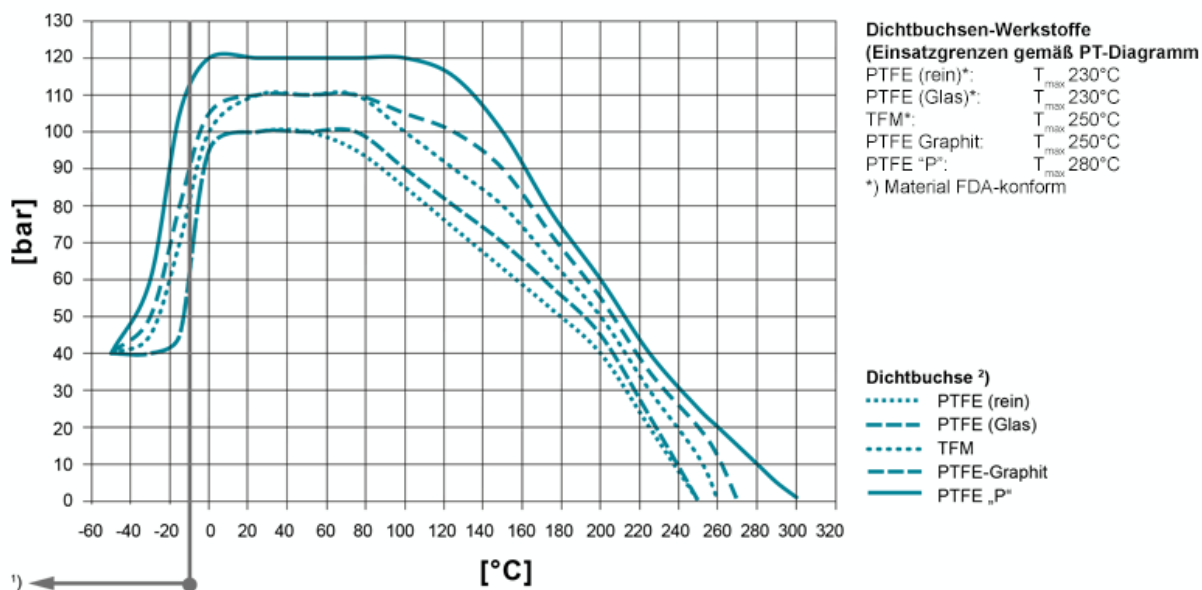
filling of the plug,  
pre-defined sample size

isolation of sample  
– pressure-less ! –

sample taking,  
filling the bottle

## PT-Diagram

Allgemeines Druck-/Temperatur-Diagramm



**Operating temperatures  $< -30^{\circ}\text{C}$  and  $> 220^{\circ}\text{C}$  have to be checked and approved by AZ according to the operating conditions.**

Besides the P/T value of the sleeve the limitations of the valve bodies also have to be considered. Please refer to the EN 12516-1 resp. ASME B16.34 in order to choose a proper pressure rating (PN/class). The shown values refer to austenitic stainless steel 1.4408 (A351 Gr. CF8M).

1) For operating temperatures below  $-10^{\circ}\text{C}$  low temperature / austenitic steels are required.

2) Sleeve: There are different sleeve materials / compounds available.

## Materials

### Standard body materials

- Carbon Steel 1.0619, ASTM A216 WCB
- Stainless Steel 1.4408, ASTM A351 CF8M
- Stainless Steel 1.4308, ASTM A351 CF8
- Unalloyed stainless steel casting (low Temp.) 1.1138, LCC/LCB/A352

### Standard plug materials

- Stainless Steel 1.4408, ASTM A351 CF8M
- Stainless Steel 1.4308, ASTM A351 CF8

### Special materials

- Alloys
- Monel
- Nickel
- Titan
- other materials on request

## Sealing Systems

**Standard sealing for all major applications;**

**Tmax 230°C**

**Type STD**

**[read more \[...\]](#)**

## Dimensions

on request

## Actuation

on request