

# **VARIO**

# Samplingsystem for liquids, freely definable sample quantity

DIN-EN: DN 15 - 100 / PN 10 - 40 ASME: NPS ½" - 4" / class 150 - 300

PT range: -40 < T < 230°C, vacuum  $10^{-8}$  mbar



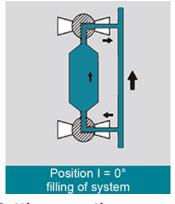
## **Design Features**

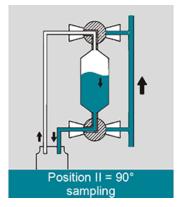
### **Design Characteristics**

- closed system
- cavity free
- freely definable representative sample quantity
- pressure free sampling (positive overlap)
- spilling eliminated and contamination free
- simple and safe operation
- absolutely tight
- compact design
- multiple sampler combined
- fugitive emmission resp. clean air act certified (TA Luft 2002 approval)
- Directive 2014/68/EU

#### **Functional Principle**

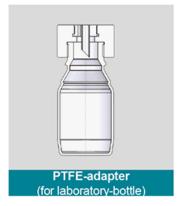




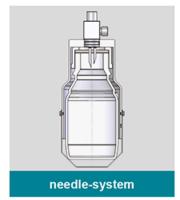


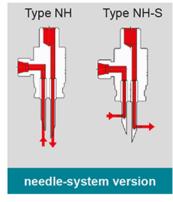
#### **Bottle connection**

- PTFE-Adapter: for laboratory bottle with ISO-thread GL 32/45. Application: For less toxic resp. polluted media.
- Clamping Retainer: For fast and easy exchange of laboratory bottle, even for heated version.
- Needle system: closed needle system for laboratory bottle with septum (Butyl and PTFE). Needle System NH and NH-S with diverse internal
- diameter(2-6 mm). Application for high toxic resp. polluted media for spillnig eliminated an contamination free sampling.





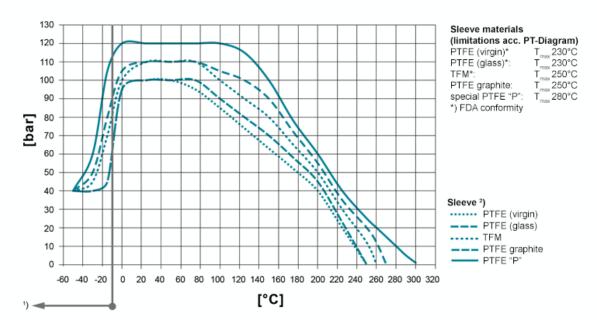




# **PT-Diagram**



#### General Pressure-Temperature-Diagram



Operating temperatures < -30°C and > 220 °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°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
- Alloy
- Monel
- Nickel
- Zirconium
- Titan
- Tantal
- · other materials on request



## **Sealing Systems**

Standard sealing for all major applications; Tmax 230°C

**Type STD** 

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Firesafe sealing (API 607) with graphite packing for additional stem sealing; Tmax 230°C

**Type FS** 

read more [...]

Chemical sealing to prevent fugitive emission of aggressive and toxic media with PTFE packing for additional stem sealing;  $T_{\text{max}}\ 230^{\circ}\text{C}$ 

**Type CA** 

read more [...]

Firesafe safety sealing (API 607) for fluctuating temperatures

with 3x graphite packing (adjustable) for additional stem sealing; Tmax 280°C

Type FSN read more [...]

Firesafe safety sealing (API 607) for fluctuating temperatures

with 3x graphite packing (live loaded disc springs) for additional

stem sealing; Tmax 280°C

Type FSN-SL read more [...]

Chemical safety sealing for fluctuating temperatures with 3x PTFE packing (adjustment) for additional stem sealing;

Tmax 230°C

Type CASN read more [...]

Chemical safety sealing for fluctuation temperatures with 3x PTFE packing (live loaded disc springs) for additional stem sealing; Tmax 230°C

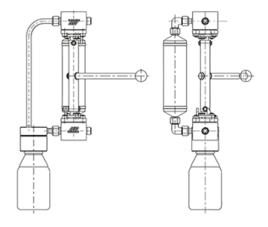
Type CASN-SL read more [...]

#### **Port Forms**

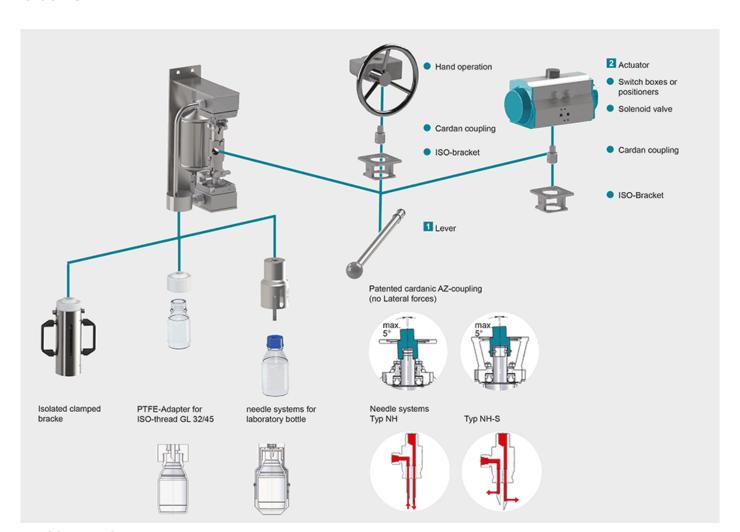
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#### **Dimensions**





## **Actuation**



### **1 Locking Devices**

Pilot valve combinations, pad lock eyelets, linear key conception, indexing plunger arrestor.

## read more [...] 2 Actuators

Actuators for mounting-flange acc. to DIN ISO 5211

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