SAMPLING

Sampling System for Liquids

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

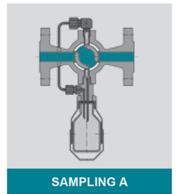


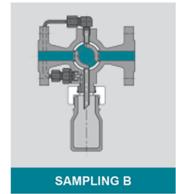
Design Features

Design Characteristics

- closed system
- cavity free
- spilling eliminated and contamination free
- specific defined representative sample quantity
- pressure free sampling (positive overlap)
- simple and fool safe operation
- absolutely tight
- utility model
- fugitive emmission resp. clean air act certified (TA Luft 2002 approval)
- Directive 2014/68/EU

Standard Design





Standard Design	TYPE A	TYPE B
application	for high-toxic liquid media	for less toxic resp. polluted media
bottle connection	needle system and bottle protection	PTFE-adaptor
sample bottles	clear glass or SCHOTT-DURAN labaratory bottle with ISO-thread	clear glass or SCHOTT-DURAN labaratory bottle with ISO-thread
bottle volume(VF)	60, 100, 250, 500 ml	60, 100, 250, 500 ml
standard diaphragm (Septum)	rubber/ PTFE	-
temperature (Tmax)	230°C	230°C
Needle diameter	2, 4, 6 mm	6, 8, 10, 15 mm

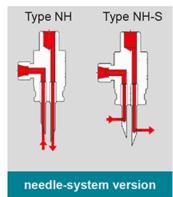
Bottle connection

- 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.



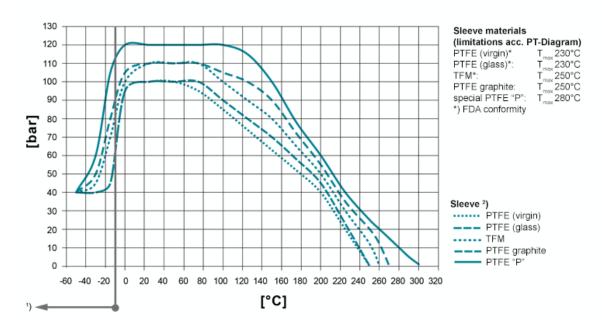






PT-Diagram

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

read more [...]

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

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

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 [...]

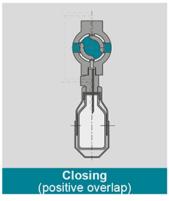
Chemical safety sealing for fluctuation temperatures with 3x PTFE packing (live loaded disc springs) for additional stem sealing; Tmax 230°C

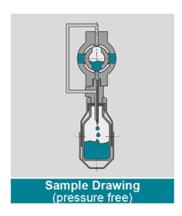
Type CASN-SL

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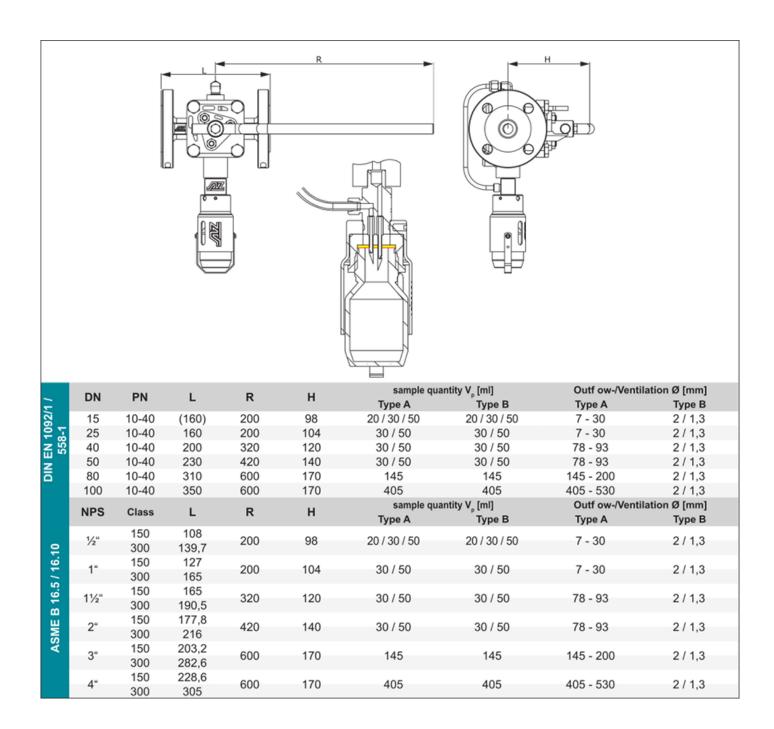
Port Forms



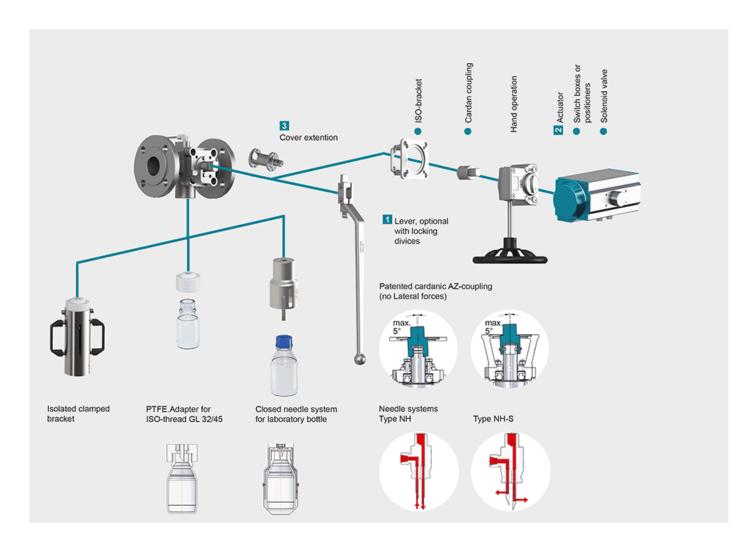




Dimensions



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 read more [...]

3 Cover extension

Solid construction in stainless steel, Standard extension 100 mm or 150 mm high, non standard lengths are available on request . Hexagonal bolts on adjustment ring freely accessible. Note: Don't use with sealing FSN/FSN-SL and CASN/CASN-SL

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