

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



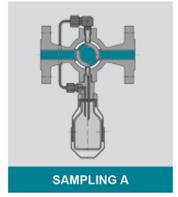
Design Features

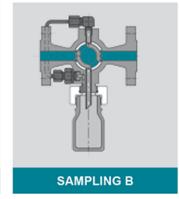
Design Characteristics

- 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







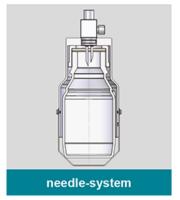
Standard Design	TYPE A	TYPE B
application	for high-toxic liquid media	for less toxic resp. polluted media
bottle connection	needle system and bottle protection	PTFE-adaptor
sample bottles	clear glass or SCHOTT-DURAN labaratory bottle with ISO-thread	clear glass or SCHOTT-DURAN labaratory bottle with 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

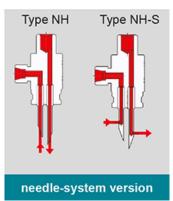
Bottle connection

- 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.





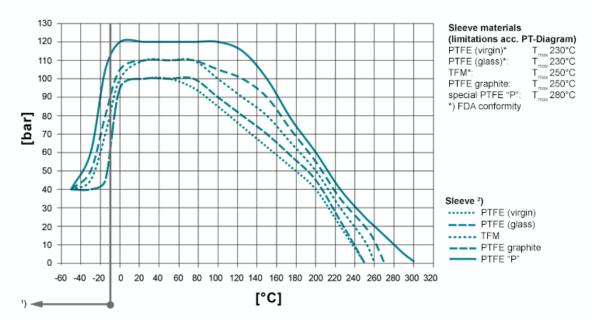






PT-Diagram

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 Lining materials(TRF + TRF-A)
- PFA, PFA-conductive, FEP



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

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

Type CA

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Firesafe safety sealing (API 607) for fluctuating temperatures

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

Type FSN

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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

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

Tmax 230°C

Type CASN

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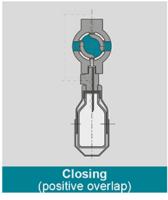
Chemical safety sealing for fluctuation temperatures with 3x PTFE packing (live loaded disc springs) for additional stem sealing; Tmax 230°C

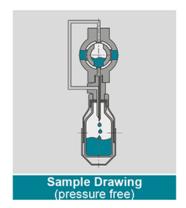
Type CASN-SL

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Port Forms

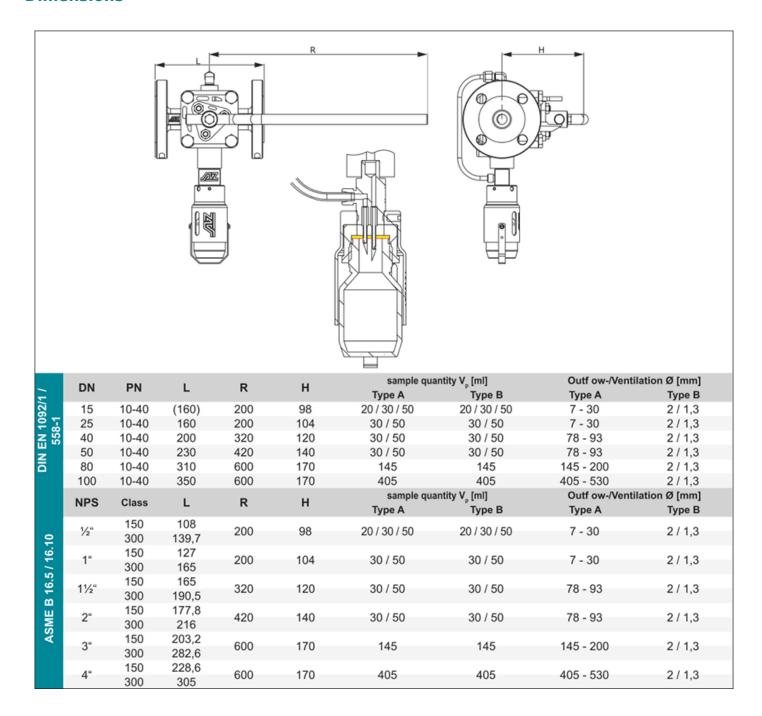






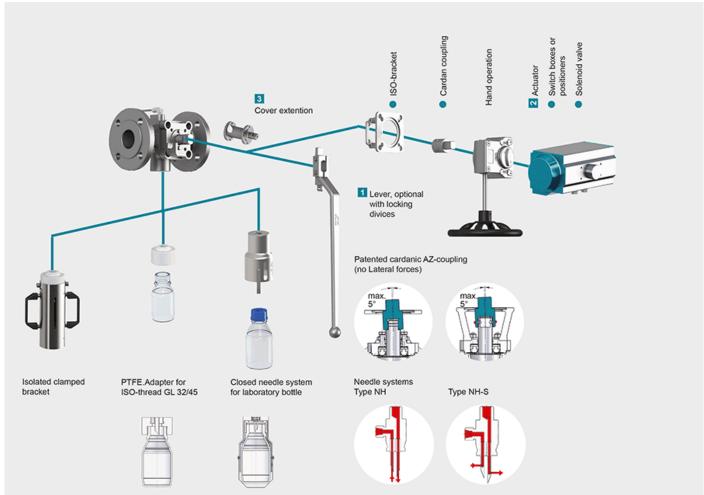


Dimensions



Actuation





1 Locking Devices

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

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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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