# **Contiflow**

### **Sampling System for liquids or solids**

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



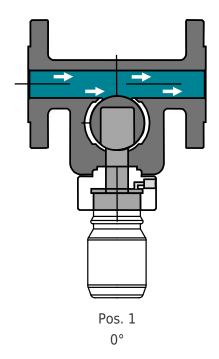
#### **Reliably Working for our Customers**

#### **Media**stries

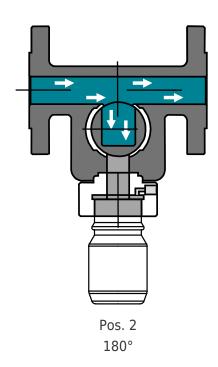
Sumphinge achemidalenPetkoliberenzene RupBandSRapleonic acid • Sulphate • Urea • NH3 • CO2 • H2O solution • Resins • Hot oil • Propionic acid • Tower acid • Hydrochloric acid (HCL) • Pyrolysis Oil • Methanol • Sulphuric acid • Methyl tert-butyl ether • Caustic • Propionic acid • Tower acid

**Functional Principle** 

Media flow, standard position

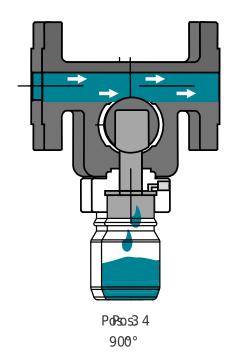


Filling the plug, defined volume



Isolation pole starkip be

- pressure-less! -



### **Design Features**

#### **Design Characteristics**

- free of cavity
- closed system
- maintenance free self lubricating
- pressureless sampling
- defined representative sample quantity (25ml)
- piggable
- no flow interruption
- simple and foolsafe handling
- sampling in vacuum possible
- fugitive emmission resp. clean air act certified (TA Luft 2002 approval)
- Directive 2014/68/EU

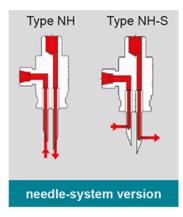
#### **Bottle connection**

- 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.

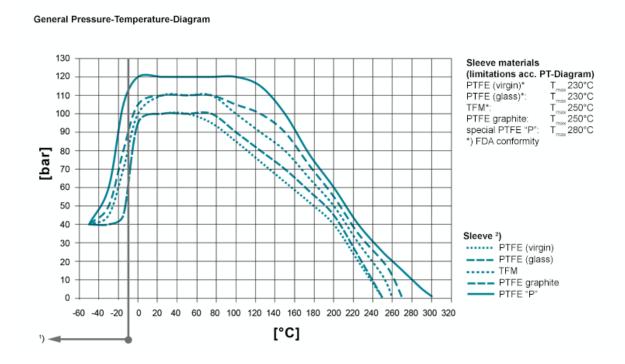








#### **PT-Diagram**



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 (Type TRF / TRF-A)**

• PFA, PFA-conductive, FEP

### **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 [...]

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 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 [...]

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

Tmax 230°C

### **Type CASN**

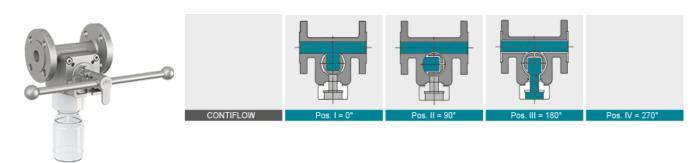
read more [...]

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

**Type CASN-SL** 

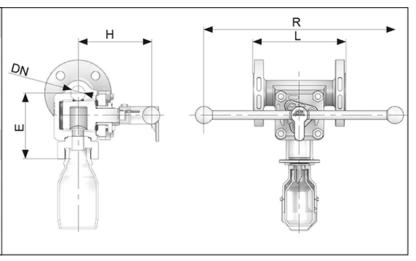
read more [...]

#### **Port Forms**



#### **Dimensions**

	DN	PN	L	Н	R	Е
EN 588-1	15	10-40	130	128	380	73,5
DIN EN 1092/1 58	25	10-40	160	128	380	111
	40	10-40	200	128	380	120
	50	10-40	230	141,5	465	133
~ ~	80	10-40	310	141,5	465	152
	100	10-40	350	141,5	465	165
	1/2"	150	127	128	380	73,5
B 2.3	1"	150	127	128	380	111
SME B	11/2"	150	165	128	380	120
ASI 16.5	2"	150	178	141,5	465	133
_	3"	150	203	141,5	465	152
	4"	150	229	141,5	465	165



CONTIFLOW for standard installation



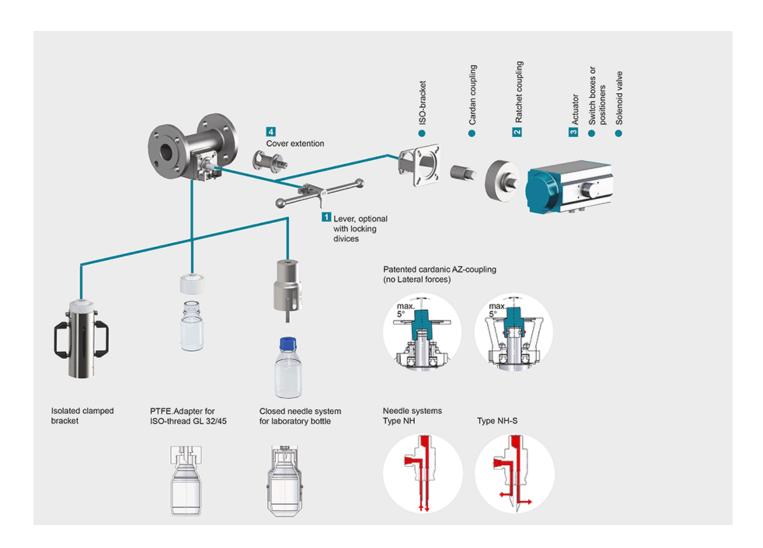
CONTIFLOW-V for horizontal installation



CONTIFLOW-W for vertical installation



### **Actuation**



#### 1 Locking Devices

Pilot valve combinations, pad lock eyelets, linear key conception, indexing plunger arrestor. read more [...]

#### 2 Plug stem extension

Solid construction in stainless steel with T-wrench, Standard extension 100 mm or 150 mm, non standard lengths are available on request

read more [...]

#### 3 Actuators

Actuators for mounting-flange acc. to DIN ISO 5211 read more [...]

#### 4 Ratched coupling

To usw on multiport valves with standard 90° actuator for bigger switchpositions than 90° read more [...]

#### **5 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

read more [...]

### **Product range**

## **Type CONTIFLOW**



with PTFE sleeve

Installation: standard

Actuation: hand lever, front

■ Bottle holder: PTFE adapter

### T**√Tjyp€@DNTFLF@OMV**-W



■ with PTFE sleeve

Installation: horizontal

with the least of the least of

Actuation: hand lever, front

■ Bottle holder: Clamping bottle holder

### **CONTIFLOW-A**

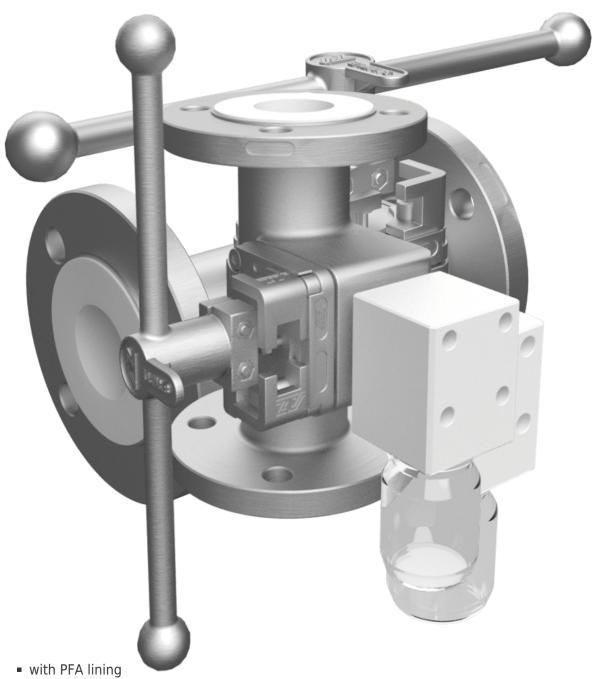


with PFA lining

Installation: standard

Actuation: hand lever, frontBottle holder: PTFE adapter

### CCONFIFOOWA-A+W



Installation: horizontal

with the tipning and lever, top
Installation! Vertical E adapter

Actuation: hand lever, front

■ Bottle holder: PTFE adapter

#### **Supplementary equipment**

### **Heating / cooling jacket**

- Heating / cooling jacket
- heating from flange to flange
- cover seating included

Various connection for heating medium

- flanged
- threaded
- weld ends

### **Purging device**

Purging of plug, needle system and lab bottle in 200° position with Nitrogen or steam

- index plunger for safe purging position
- purging of the plug is possible in-situ (no additional valve necessary)





### **Cleaning in Place - CIP**

- CIP-compliant
- with PTFE/PFA lined plug
- without sleeve
- gapless
- for pharmaceutic applications

### **Protection box for lab bottle**

#### Types

- for the whole sampling valve
- with ventilation, exhausting
- lockable
- heatable
- with lighting



### **Modular Design**

Increase of plug sample volume with additional flange plug volume

- 25 ml (Standard)
- 50 ml
- 75 ml
- 100 ml



### **Customized solutions**

on request Example:

- 6" flanged valve (or bigger) for main stream
- hand lever, front
- Bottle holder: PTFE adapter

