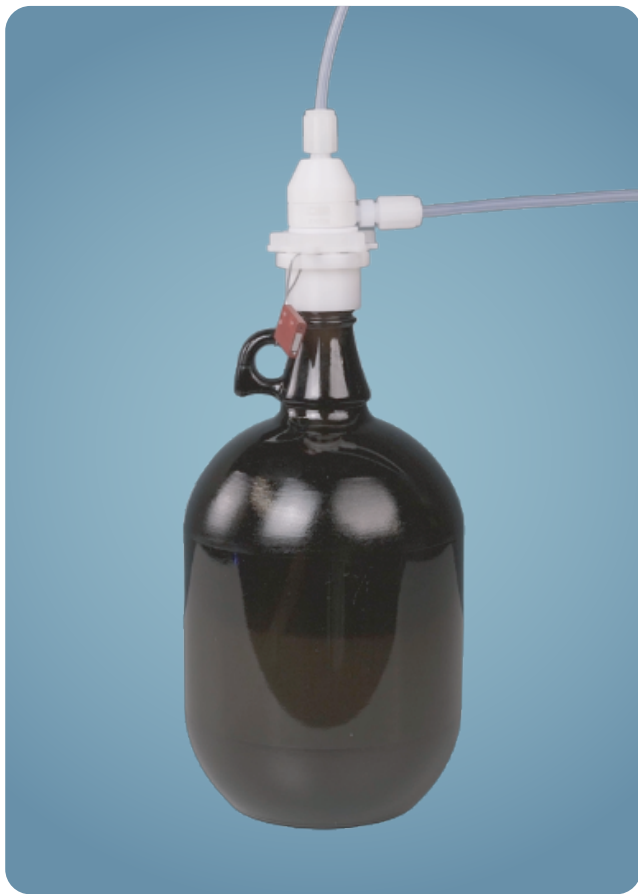
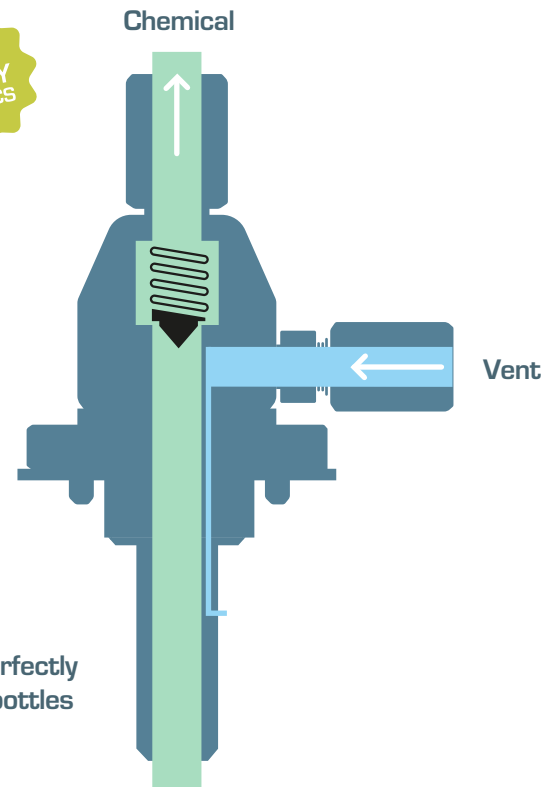


Safe and clean dispensing from bottles

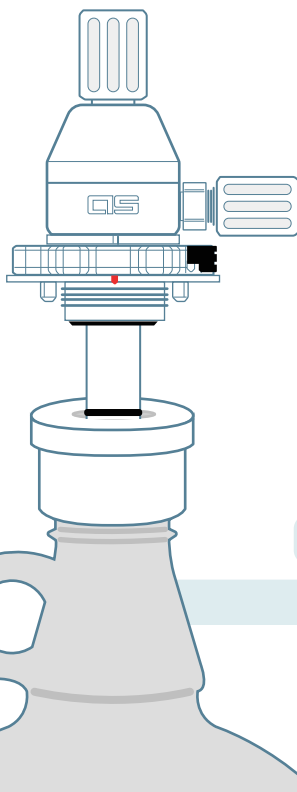


HIGH
PURITY
PLASTICS



 Fits perfectly
on all bottles

Features:



Dispensing
in closed
loop



Key code
prevents
mix-ups



Spill-free
disconnection



Automatic
traceability

Chemical product 

Specification 

Batch and expiry date 



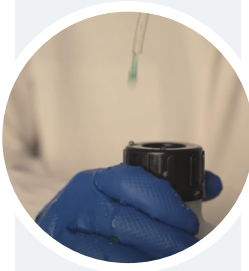
SCAN THE QR CODE
to see how it works



Dangers of conventional dispensing methods



01



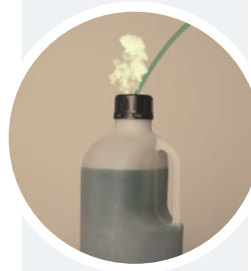
Chemical
dripping

02



Residual
liquid on
the tube

03

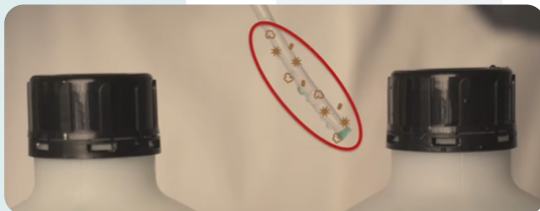


Gas leakage
during
dispensing

04



Liquids
volatilize



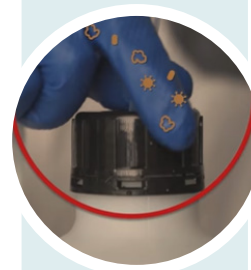
Cross-contamination

05



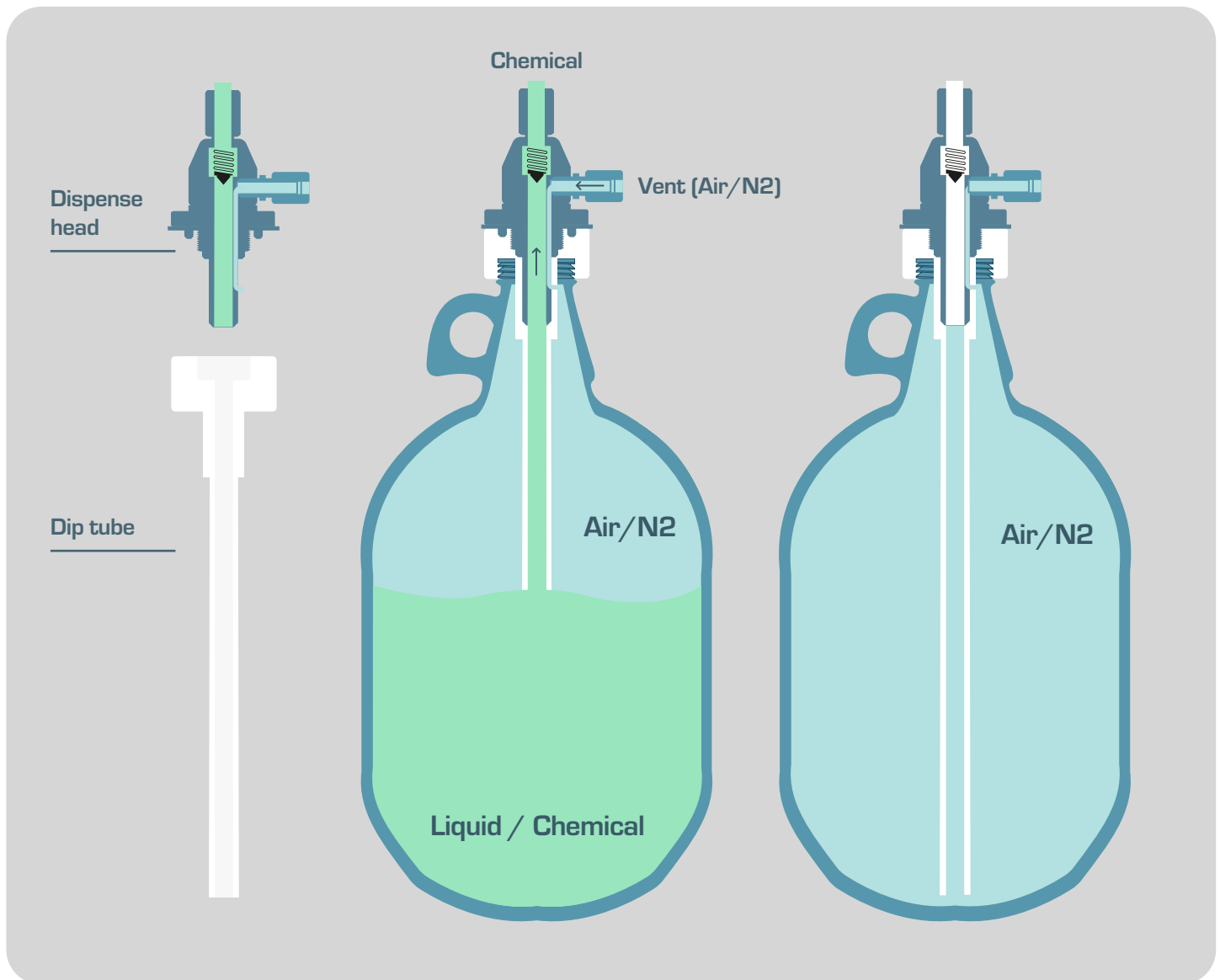
06

Contaminations
from ambient air
are sucked into
the bottle



07

Contamination
of the tubing due
to handling



RFID Chip
receive spec sheet and
add more data



Membrane (Optional accessory)
Closes bottle until dispense head is
connected. (Not to be used with chemicals
which cause high vapor pressure to avoid
sudden release while piercing.)



Dip tube closure
to properly close dip tube during
transportation. Can optionally be
pre-installed by AS.

Flexible design
versions for different bottles possible.

Tamper proof seal (Optional accessory)
to secure dip tube bottle integrity.

MATERIALS OF CONSTRUCTION		PE	PVDF	PFA	CD	CDPVDF	CDPFA
Wetted parts	Body	HDPE	PVDF	PFA	PP elec. conductive	PVDF elec. conductive	PFA elec. conductive
	Check valve	Fluoropolymer					
	O-rings	Standard: FFKM (Kalrez® 6375) Alternatives: EPDM, FKM, FFKM with FDA compliance					
Non-wetted parts	Thread to dip tube	Standard: PVDF Alternative: PCTFE	Standard: PVDF	Standard: PCTFE	Standard: CDPVDF Alternative: CDPFA	Standard: CDPVDF	Standard: CDPFA
	Flare nuts on liquid and vent connections	Standard: PVDF Alternative: PFA			Standard: CDPVDF Alternative: CDPFA		
	Others	PP / HDPE / PTFE					
	Grounding wire	N / A			1 meter wire with clamp (not displayed on drawing)		



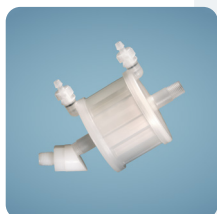
Docking station

Safe and reliable storage unit for Dispense Heads and bottle openers whilst changing bottles or containers.



Venting valve

Safe pressure compensation during dispensing and prevention of outgassing after the pumping process has finished.



Mini particle filter

The particle filter only lets purified air into the container to compensate the pressure. Easy to fit onto the NanoConnect Head's ventilation connection.

- Filter membranes made of pure PTFE
- Safe and efficient removal of dust and microorganisms
- Permanently hydrophobic
- No wetting from air moisture



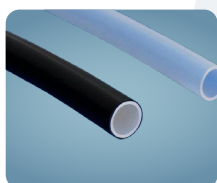
Corrugated PFA tubing

For a stress-free installation and ultra-flexible handling of the NanoConnect head. Ideal for vertical and horizontal installation of the suction line.



Flare fittings

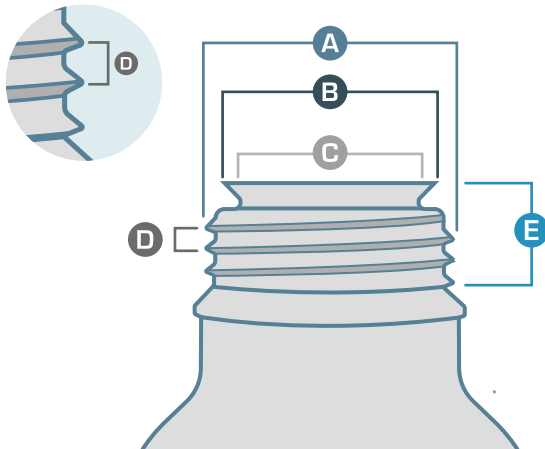
To easily connect PFA tubing with the NanoConnect Head. Available in HDPE, PVDF and PFA.



Straight PFA tubing

- Ideal for fixed installation
- Version with antistatic outer surface
- Also suitable for applications with dosing pumps
- The chemical and physical properties of PFA tubes are largely identical to those made of PTFE.
- They have an outstanding and almost universal resistance against most chemicals, are ultra-pure and can be used for pharmaceutical applications. The key differences to PTFE are: lower cold flow, improved mechanical properties, lower diffusion, higher purity and better translucency. PFA can be welded.

Bottle threads determination



Specify the bottle thread type (e.g., sawtooth, glass)
for accurate adapter compatibility.

See example pictures of the two most common below for reference.

Example:
Glass thread



Smooth, continuous threads
Typically found on glass bottles,
sometimes on plastic bottles

Example:
Saw thread

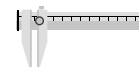


Serrated or jagged edges
Common on plastic bottles

You can also send us the bottles as an alternative and we will measure for you.

How to determine the size of a bottle thread?

- | | |
|----------|--|
| A | Outside diameter of the thread. |
| B | Outside diameter of the neck. |
| C | Inside diameter of the neck. |
| D | Distance between one thread and the other (thread pitch) |
| E | Neck finish height. |
| F | Bottle thread type. |



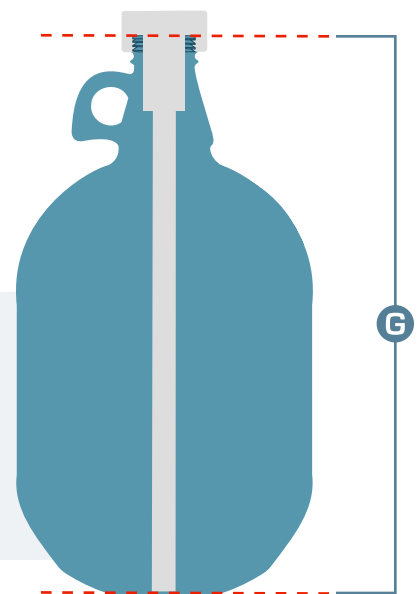
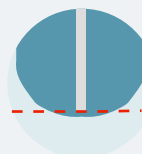
Note: Use calipers to make
the measuring easier.



Adapted to fit any bottle

How to determine the length that the dip tube should have.

- G** From the top of the bottle to the bottom.



ORDER NUMBER:

Nano Connect
Dispense Head

NH-DK

- PE -

XXX

- F1/4" -

F1/4" -



Function	Wetted O-rings	Non-wetted O-ring holding key-code disk	Body material	Chemical Key-Codes
D = Dispense <i>*with one-way check valve</i> R = Recirculation / Fill <i>*with one-way check valve</i> O = without valve	K = FFKM (Kalrez® 6375) F = FKM E = EPDM L = FFKM with FDA compliance	Blank = FKM (Standard) K = FFKM (Alternative) E = EPDM (Alternative)	PE = HDPE high purity PVDF = PVDF high purity PFA = PFA high purity CD = PP elec. conductive CDPVDF = PVDF elec. conductive CDPFA = PFA elec. conductive	XXX Uncoded 003 Acetic acid (CH ₃ COOH) 063 Acetone (CH ₃ -CO-CH ₃) Ex 005 Ammonium fluoride solution (NH ₄ F) 004 Ammonium hydroxide solution (NH ₄ OH) 014 BOE 1 (AF 500:1) 015 BOE 2 (AF 9:1 und BOE 20:1) 061 BOE 3 (AF LST) 062 BOE 5 (AFW LST) with water and surfactant 071 BOE 6 (AF 8:1) 031 EBR 1 Ex 032 EBR 2 Ex 070 EKC265 006 Hydrochloric acid (HCl) 011 Hydrofluoric acid < 20% (HF) 012 Hydrofluoric acid 20% - 60% (HF) 059 Hydrofluoric acid 61% - 75% (HF) 007 Hydrogen peroxide (H ₂ O ₂ +H ₂ O) 024 IPA Isopropyl alcohol (Isopropanol) Ex 001 Nitric acid (HNO ₃) 066 PGMEA Ex 010 Phosphoric acid (H ₃ PO ₄) 017 Potassium hydroxide solution (KOH) 009 Sodium hydroxide solution (NaOH) 045 Spin-Etch D 046 Spin-Etch E 002 Sulfuric acid (H ₂ SO ₄) 019 TMAH 1 25% with tenside 029 TMAH 2 2,38% with tenside 030 TMAH 3 with tenside 034 TMAH 4 with tenside 035 TMAH 5 2,38% without tenside <i>For more chemical key-codes please refer to our technical brochure or contact our technical sales team.</i>
Liquid port connection	Vent port connection	Non-wetted materials		
F1/4" = Flare 1/4" vertical F3/8" = Flare 3/8" vertical F1/2" = Flare 1/2" vertical HF1/4" = Flare 1/4" horizontal HF3/8" = Flare 3/8" horizontal HF1/2" = Flare 1/2" horizontal <i>Other types of connections e.g. Pillar or threads are available upon request.</i>	VF1/4" = Flare 1/4" vertical VF3/8" = Flare 3/8" vertical F1/4" = Flare 1/2" horizontal F3/8" = Flare 3/8" horizontal NPT 1/8" = Female NPT 1/8" thread <i>Other types of connections as well as particle filters and venting valves are available upon request.</i>	Blank = Standard configuration S = Alternative configuration for thread to dip tube and flare nuts <i>(see non-wetted parts section in table on page 3)</i>		

Nano Connect
Dip Tube

NT

- S37x4 -

PE -

001 -

0300 -

SX

For more threads please refer to our thread type reference sheet on page 5 or contact our technical sales team.

Thread	Material options	Chemical key-code
S37x4 = S37x4 GL37x3,5 = GL37x3,5 S40x3 = S40x3 S45x4 = S45x4 S50x4 = S50x4 S54x5 = S54x5	PE = HDPE PVDF = PVDF PTFE = PTFE <i>*Standard tube is 1/2" PFA</i>	See the reference in the table above
Immersion lenght	Dip tube closure	Options
Lenght in mm, e.g. 0100= 100 mm Refer to page 5 <i>If you insert 0000 we do not supply the dip tube with a tube, just the dip tube head</i>	S = Standard type dip tube closure V = vented with PTFE membrane	J = membrane O = Tamper proof seal to bottle (Refer to page 2)

Disclaimer:

Please note that all data and specifications presented on this product data sheet, including dimensions, weight, flow rates, and pressures, are approximate and provided for reference purposes only. Actual values may vary slightly due to manufacturing tolerances, variations in raw material composition, and other factors inherent in the production process. While we strive to provide accurate and up-to-date information, we cannot guarantee that all data is completely precise. We recommend verifying critical dimensions and performance criteria for specific applications. Furthermore, we reserve the right to make changes to our products at any time and without prior notice, unless explicitly agreed on otherwise, as part of our continuous effort to improve product quality and performance. This includes modifications to the design, materials, illustrations, and the variants listed herein. AS assumes no liability for any discrepancies or deviations in the data provided or for any changes made to product specifications.

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NanoConnect

Safe dispensing
without mix-ups



Flow rates



Check valve in liquid channel

Material Options High purity



- PE
- PVDF
- PFA

Material Options Electrically conductive



- CD
- CDPVDF
- CDPFA

Chemical key code

84 different key-code options

Options



RFID

Function

Dispense and vent or fill

Dip tube can be pre-installed in the bottle by the chemical supplier or installed on site

Compatible bottle openings:

All common bottles (canister threads up to 60mm OD)

BottleConnect

Safe dispensing for
single use applications



Flow rates



Check valve in liquid channel

Material Options High purity



- PE
- PTFE

Material Options Electrically conductive



Chemical key code



Options



Function

Dispense and vent

Dip tube can be supplied separately or attached to the bottle by chemical supplier or installed on site

Compatible bottle openings:

All common bottles (canister threads up to 60mm OD)

Economic single use dip tube



Chemical companies and end customers from a wide range of industries already rely on safe and pure AS products worldwide

Electronics	Semiconductors Solar technology and photovoltaics Flat screens
Industry	Electroplating Chemicals Printing/Paper Water treatment Automotive / mechanical engineering Adhesives Glass Agriculture

Pharmacy / Biotechnology / Cosmetics / Foods

Laboratories / Research facilities / Institutes

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EUROPE – WORLDWIDE

AS Strömungstechnik GmbH
Elly-Beinhorn-Str. 7
73760 Ostfildern, Germany
Tel.: +49 (0) 711 220 548-0
Fax: +49 (0) 711 220 548-29
info@asstroemungstechnik.de
www.asstroemungstechnik.de

USA

A.S. Plastics Technology, Inc.
644 Shrewsbury Commons
Avenue #246
Shrewsbury, PA 17361 USA
Tel.: +1 (979) 232-2288
sales@as-plastech.com
www.as-plastech.com

ASIA – PACIFIC

DUSEMUND PTE LTD
Dr. Claus Dusemund
25 International Business Park
#04 – 62 German Centre
Singapore 609916
Tel.: +65 6562 7871
Fax: +65 6562 7872
claus@dusemund.com