



SEMICON[®] *Taiwan 2014*

**Innovative Chemical Withdrawal System with
Inherent Safety & Environmental Features**



without
limits.

DUSEMUND PTE LTD
High Tech Solutions



September 3-5
Taipei, Taiwan

Leading Liquid Chemical Quick-connect System

領先的液體化學品快速連接系統



Leading liquid chemical Quick connect system:

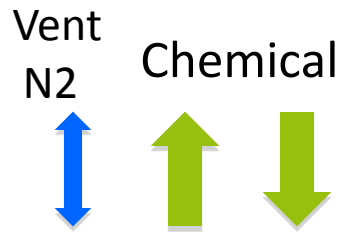
- High safety.
- Quick installation.
- Easy to use.
- Perfect solution for high-purity chemicals, corrosive chemicals and flammable solvents.

領先的液體化學品快速連接系統：

- 高安全性。
- 快速安裝和易於使用。
- 是高純度化學物。
- 腐蝕性化學物和易燃溶劑的完美解決方案。

QC2 & QC3 Quick Connect

QC2 & QC3 快速連接



QC2 with 2 ports (2連接):

- Chemical Outlet / 液體連接
- Vent / N2 connection
氣體/排氣孔

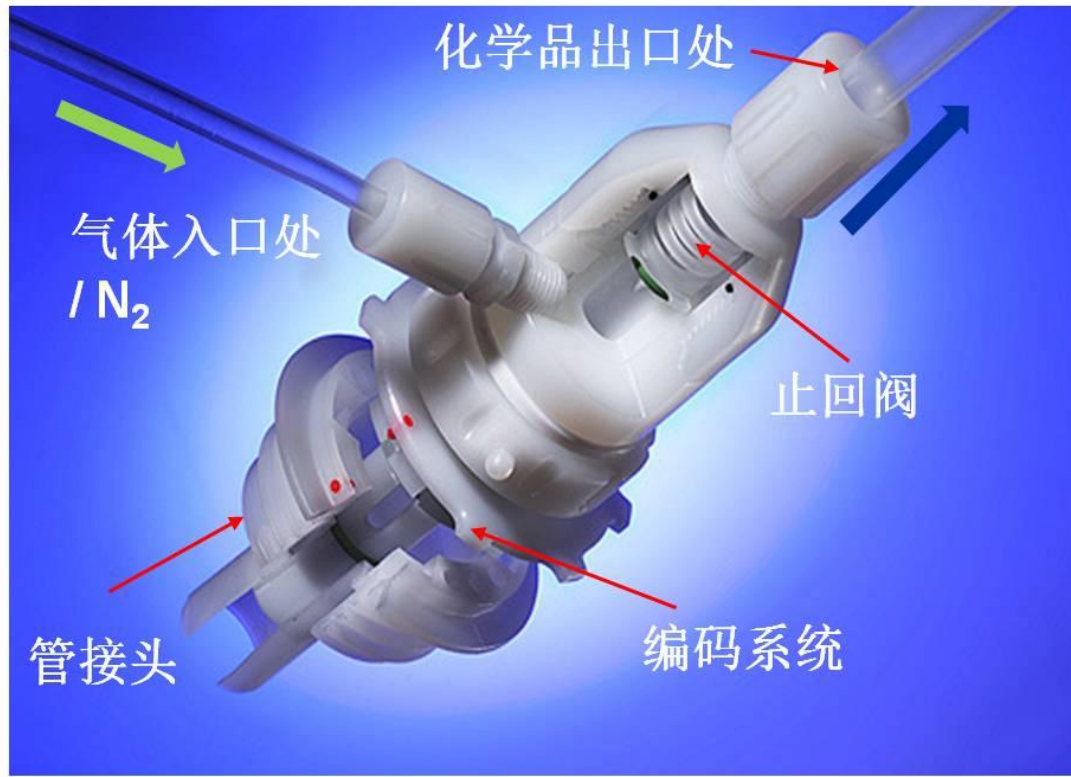
QC3 with 3 ports (3連接):

- Chemical Outlet / 液體連接
- Chemical return/filling
液體連接灌裝
- Vent / N2 connection
氣體/排氣孔

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Features of the QC2 Quick Connect

QC2- 化學提取系統 設計及功能



- Chemical Outlet
液體連接
- Vent / N₂ connection
氣體/排氣孔
- Check-valve
止回閥
- Key-code system
鑰匙

Simple & Save Operation: Build-in Vent System 操作簡單安全: 內置氣體/排氣孔

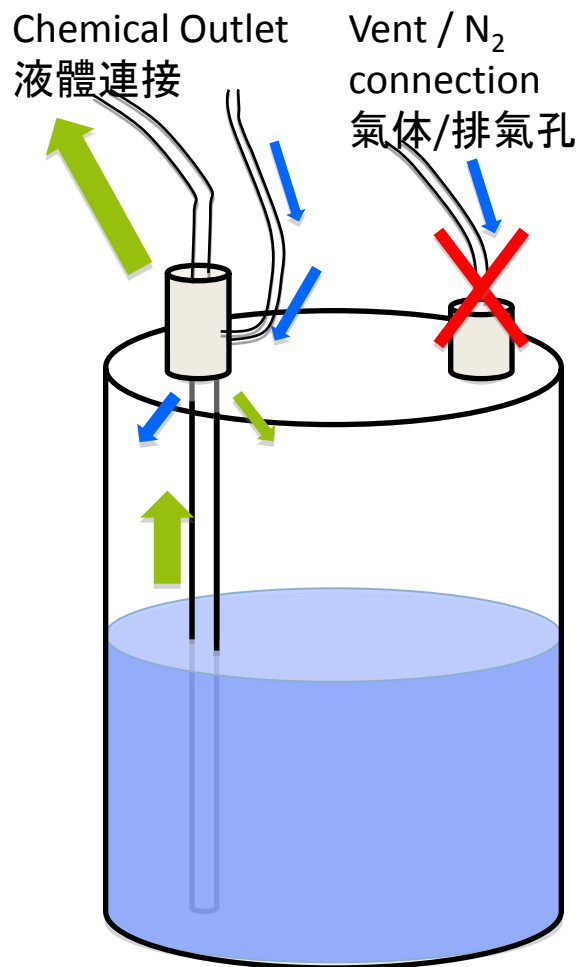


Vent connection (FNPT 1/4"):
連接器氣體接頭:

- Assembly with Flaretek[®] fitting (e.g. 1/4", 3/8", 1/2") for N2 blanketing.
氮氣供應。
- Assembly with particle filter for air.
微粒過濾器。
- Optional: can be closed with plug
帶插頭關閉。

Simple & Save Operation: Build-in Vent System

操作簡單安全: 內置氣體/排氣孔

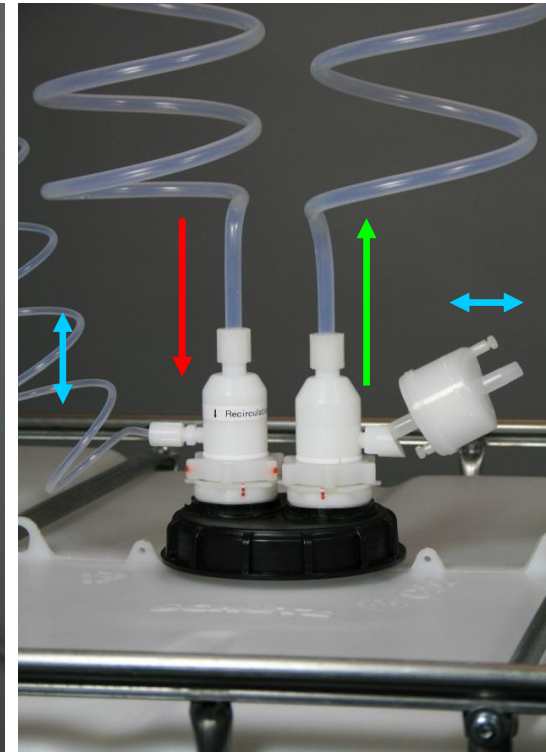
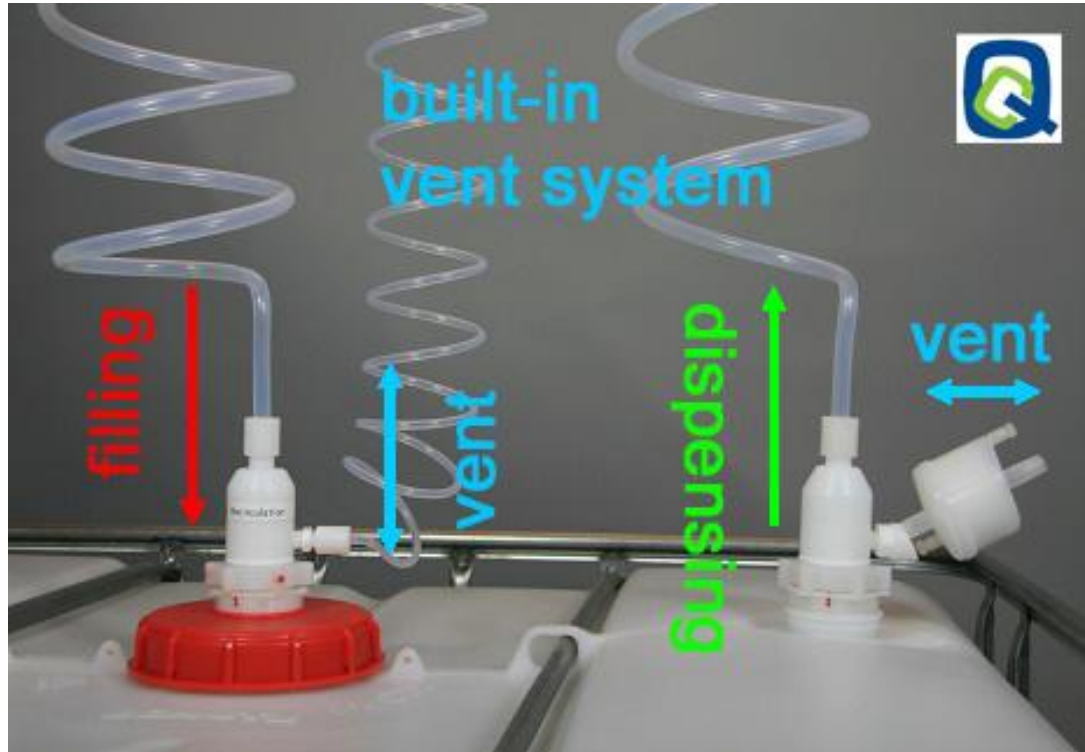


- One QC2 connector is sufficient.
- 一個QC2連接器是足夠的。
- No need for second connector for vent.
- 不需要第二個通風口連接器。

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Multiple Options to Connect 多種選擇，用於連接



also with QC2 for chemical return (RK-type)
還與QC2快速連接的灌裝 (RK-type)

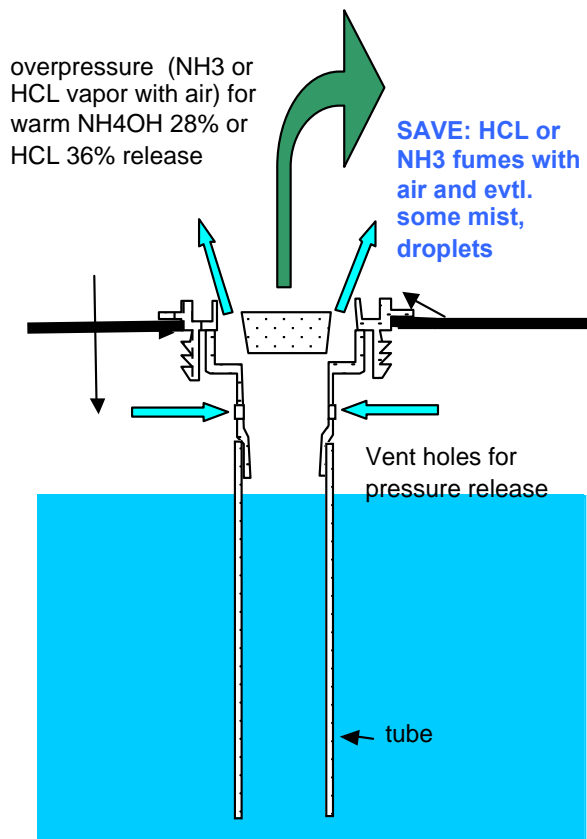
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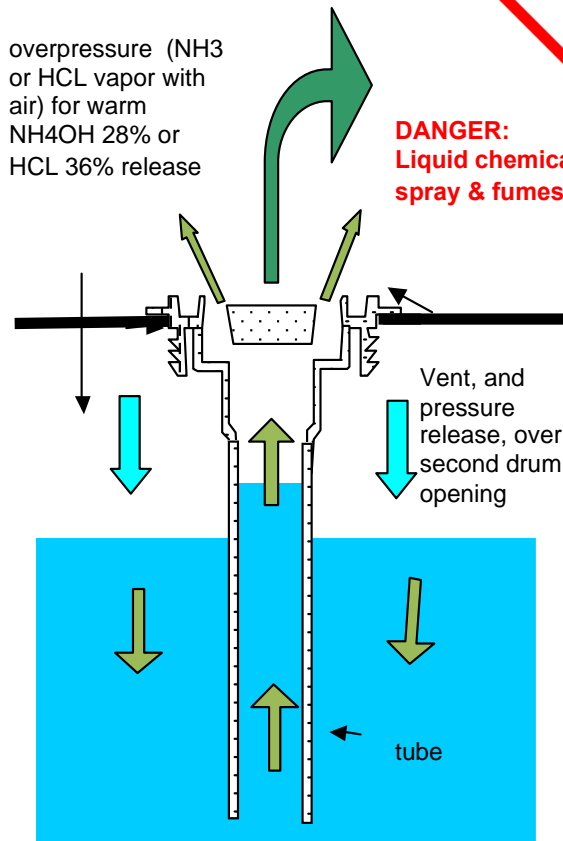
Safe Chemical Pressure-release when Opening of Cap 當蓋被打開的安全壓力釋放



AS QC2 dip-tube



Dip-tube without vent



- Let the chemical cool down on room temperature,
- In case of AS QC2, please open the stopper $\frac{3}{4}$ " slowly, so that the fumes are released slowly without chemical droplets.
- In case of simple dip-tube: Open second drum opening first!

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Patented Key-Code System 註冊專利的代碼系統鑰匙



e.g. chemical H₂SO₄ = code 002 (1-2-4)
取出硫酸 = 化學代碼 002 (1-2-4)

chemical recirculation = code 020 (4-5-6)
再循環- 所有液體= 中性代碼 020 (4-5-6)

Pins in other colours are available, too.



PREVENTION of accidental hook-up of a wrong chemical to the chemical dispense system resulting in:

- **Stop** of the production line.
- **Dangerous Mixing** of different chemicals.
- **Expensive Cleaning** of the piping and tools.

鑰匙代碼被設計用來消除與化學物供應系統的錯誤鼓形連接。

Save Handling of Flammable Chemicals/Solvents 安全:經認證可用於低燃點易燃溶劑



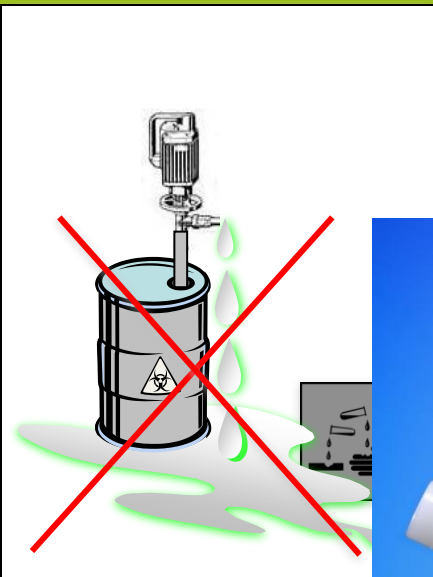
- Dip-tubes and dispense heads are available in conductive PP.
- Avoidance of sparks from electrostatic discharge.
- 避免靜電發射的火花
- 材質: CD導電聚丙烯

安全:經認證可用於低燃點易燃溶劑

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Integrated Valve 集成閥



**Disconnection of dispense head
Save & Spillage-free :**

Standard:

- Check-valve.

Optional:

- Manual/ turncock valve.
- Pneumatic valve.

連接／拆卸容器時無滴漏:

標準:

- 止回閥。

可選:

- 手動閥, 氣動閥。

Environmentally Friendly 保護環境



Dip-tubes with Flexible bellow:

- Minimize chemical residue.
- Save Chemical.
- Reduce Costs.
- Reduce Waste.

帶柔性波紋的汲取管:

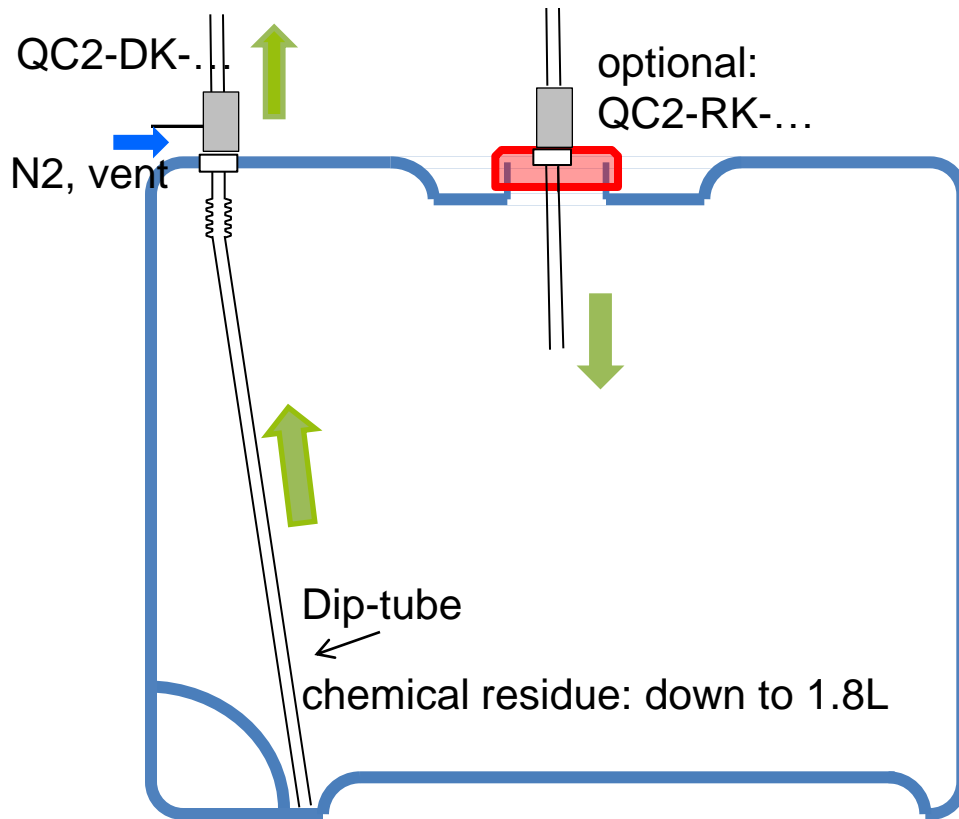
- 殘留最少的化學物於容器。
- 節省化學品。
- 降低成本。
- 減少浪費。

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Example for IBC

為IBC's提供的可壓縮封液管



帶柔性波紋的汲取管:

- 殘留最少的化學物於容器。
- 節省化學品。
- 降低成本。
- 減少浪費。

Dip-tubes for a Variety of Containers

汲取管用於許多類型的容器



- No need for dip-tube change on-site.
- No risk of contact with chemical.
- No need for additional adapters.

Solutions for any container type.

汲取管可用於各種10-1000升的不同容器。

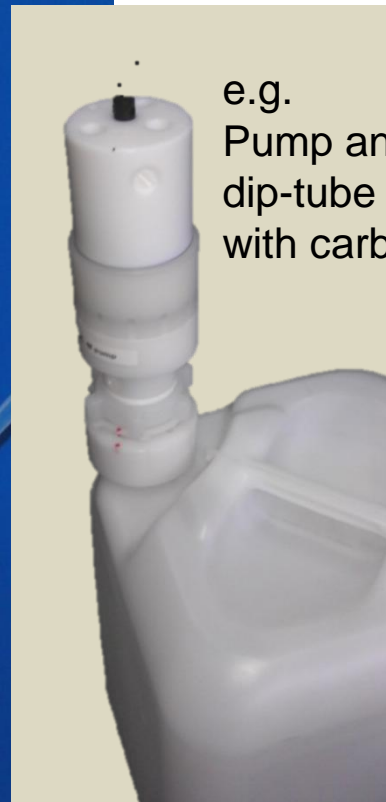


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Safe Transfer of Chemicals into Wet-bench

化学品输送和取样泵,型号QC-M



e.g.
Pump and
dip-tube
with carboy

- QC2 Connector with build-in diaphragm pump (5-7L/min).
- Qualification of chemicals: connect to VMB line instead of pouring chemicals.
- Sampling
- QC2快速連接帶內置隔膜泵。
- 將化學品輸送到工作濕台 (tool, wet-benches) 。
- 採樣。

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全新高流量

High-Flow G-Series 高流量QC快速連接系統 G系列



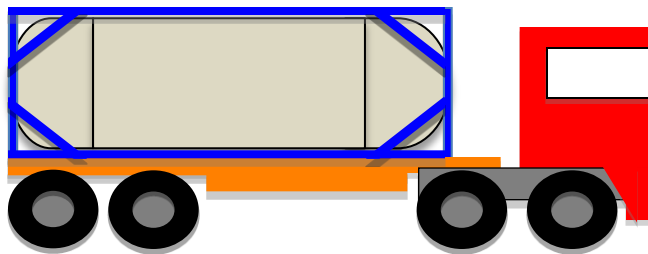
- Effective and fast discharge and filling with high flow rates
有效而快速的高流率排出與導入。
- Safe and clean handling of chemicals in a close loop system.
全密閉系統內既安全又清潔地處理化學。
- Built-in check-valve assures spillage-free connection and disconnection.
內置止回閥保障在連接與斷開操作時無液體溢出。
- Quick and easy connection with dip-tube 用於汲取管, 可快速, 方便地連接。
- Dip-tubes can be used for a variety of containers from 10-1000L.
汲取管可用於各種10-1000升的不同容器。

Up to 150L/min

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High-Flow G-Series 高流量QC快速連接系統 G系列



Alternative to ISO Container:

另類的ISO容器:

- Use G-series dip-tube in IBC for chemical delivery.
運送化學品, 使用G系列汲取管在IBC。
- 10pcs IBC's (10,000L) can be emptied in about 3 hours.
10個IBC (10,000L)可以在3個小時左右清空。
- Save high investments cost in PFA/PTFE lined ISO containers and loading/ unloading facilities.
節省ISO容器投資成本。

QC Versatility 快速連接-多功能性



- Quick Connector with reed switch
- Dual Hose System (doubled contained tubing).
- Sampling device.
- And many others.

- QC-2 快速連接輸送系統內置開關顯示浸入管正確聯軸器。
- 雙軟管聚四氟乙烯。
- 採樣設備。

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Quick Connect – The leading Dispense System for Liquid Chemicals.



SEMICON[®]
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September 3–5
TWTC Nangang Exhibition Hall, Taiwan
Booth 1191

plastics technology
HIGH-PERFORMANCE PLASTICS

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