Dusemund Pte Ltd

Strömungstechnik GmbH

■ Information about the “Quick Connect System”

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8. Accessories

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10. Distribution (in Asia)

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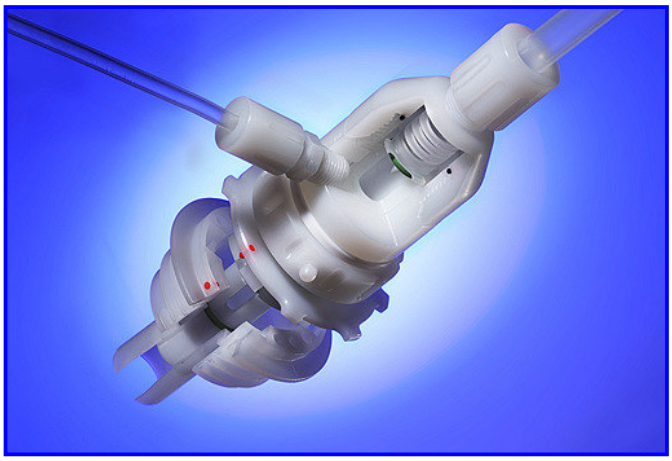
1. Overview Quick Connect System



New technologies change the way we deal with chemicals.

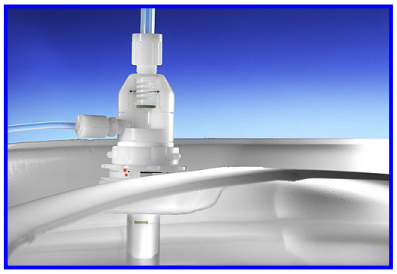
Safety and protection work in two ways: We have to protect people and our environment from hazardous chemicals. On the other hand we have to ensure our high quality chemicals from being contaminated by people or environment. This two-fold protection works when using closed production cycles.

Therefore, the **Quick Connect System** is the perfect fit for your needs.

The Quick Connect (QC) System is a discharging system for liquids. A dispense head and a dip tube are needed for the system to work. The dip tube remains in the container, the dispense head is stored close to the dispense system. For discharging the liquid, the dip tube is connected with the dispense head via a quick connect device. The actual discharging process is done via a pump.

The special features of the Quick Connect System - which is protected by a patent - are as follows:

- all components are made of plastic material
- the gaskets are made of universally chemical resistant perfluoroelastomers
- the dispense head prevents back-flow from one side with a check valve
- coding for the corresponding chemical is possible
- dip tube fittings of customary containers threads are available
- the system is qualified for high purity electronic chemicals
- the dip tubes are manufactured using injection moulding process; and the favourable price allows disposable use
- an adapter for the use of a Fluoropure® dispense head is available
- there is an electrically conductive version available for highly inflammable chemicals



Quick Connect System
by

as – strömungstechnik GmbH

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2. Quick Connect dip tube specification

DT – XXXX – XX – XXXX – XX

dip tube	thread/material of construction	chem.code	length dip tube from sealing surface (mm)	plug size/design	material dip tube
	56PP 70 PP 70x5PE (Kodama) 62 PE 62 CD(PP conductive) G2“ G2“CD(PP conductive) K60PE Fl150 =flange150mm	..... chemical 020 recirculation XXX withoutCode	.... mm XXXX=1000mm	S = ¾“ standard V = ¾“ ventilation T =42x2 standard W=42x2ventilation	A = PE A-resin D = PE D-resin C =PE conductive F = flexible

international Code	manufacturer	typ	filling amount
DT-56PP-020-0300-SA		recirculation	
DT-56PP-XXX-0225-TD	Mauser	drum PE SVR	10l
DT-56PP-XXX-0365-SD	Mauser	drum PE SVR	30l
DT-56PP-XXX-0489-TD		composite drum sheet steel/PE	25l
DT-56PP-XXX-0535-TD		composite drum sheet steel /PE	30l
DT-56PP-XXX-0635-TD	Mauser	drum PE SVR	60l
DT-56PP-XXX-0660-SA		composite drum sheet steel /PE	60l
DT-56PP-XXX-0785-SA		composite drum sheet steel /PE	120l
DT-56PP-XXX-0835-SA	Greif	composite drum sheet steel /PE	200l
DT-56PP-XXX-0880-SA	Rikutec	PE drum 1	200l
DT-56PP-XXX-0890-SA		composite drum sheet steel /PE	200l
DT-KS60-XXX-0372-SA		can PE	30l
DT-62PE-020-0300-SA		recirculation	
DT-62PE-XXX-0715-SA		composite IBC COEX RR	500l
DT-62PE-XXX-0845-SA	Müller	composite drum sheet steel /PE	200l
DT-62PE-XXX-0905-SA	Rikutec	PE drum UC	200l
DT-62CD-XXX-0880-SC	Rikutec	PE drum CD leitfähig	200l
DT-62PE-XXX-0896-SA	Entegris	PE drum	200l
DT-62PE-XXX-0890-SA	Greif	PE drum	200l
DT-62PE-XXX-0992-SA	Hessentaler	IBC	500l
DT-62PE-XXX-1005-SA	Rikutec	composite IBC UC	1000l
DT-62CD-XXX-1030-SC	Rikutec	composite IBC CD leitfähig	1000l
DT-62PE-XXX-1030-SF	Rikutec	composite IBC UC	1000l
DT-70PP-020-0300-SA		recirculation	
DT-70PP-XXX-0710-SA	Mauser	drum	20l
DT-70x5PE-XXX-865-SA	Kodama	PE drum	200l
DT-70PP-XXX-0890-SA	Mauser	drum	100l
DT-70PP-XXX-0915-SF	Mauser	drum	200l
DT-70PP-XXX-0915-TD	Greif	Valerex PE drum	225l
DT-70PP-XXX-0985-SF	Mauser	composite -IBC	1000l
DT-70PP-XXX-1050-SF	Schütz	composite -IBC	1000l
DT-G2“CD-XXX-0880-SC		steel drum	200l
DT-62StPE-XXX-0845-SA	Kodama	composite drum sheet steel /PE	200l

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3. Quick Connect dispense head specification

DH – XX – XX – XXX – FX/X - FX/X

dispense head	function	gasket	Material of construction	Chemical code	Connector fluid	Connector gas
	▪ dispense – D ▪ recirculation - R	▪ Kalrez - K	▪ PE ▪ CD	▪ …(chemical) ▪ . 20 (recircu-lation)	▪ F1/2” Flaretek ▪ F3/4” Flaretek ▪ F1” Flaretek ▪ R1/2”R-thread	▪ F1/4” Flaretek® ▪ F3/8” Flaretek® ▪ P - plugged

Types:

Hon.Pm.No.	International Code
89700	DH-DK-PE-XXX-F1/2"-F1/4"
89730	DH-RK-PE-.20-F1/2"-F1/4"
89715	DH-DK-PE-XXX-F3/4"-F1/4"
89731	DH-RK-PE-.20-F3/4"-F1/4"
89721	DH-DK-CD-XXX-F3/4"-F1/4"
89733	DH-RK-CD-.20-F3/4"-F1/4"
89717	DH-DK-PE-XXX-F1"-P

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4. Chemical code

Chemical coding list Quick Connect System (Thread BCS 56 x 2, BCS 62 x 5 and BCS 70 x 6))			
Code No.	Dip tube bolts set in	Coding disk existing pins	Product
3	125	346ABC	Acetic acid
63	46C	1235AB	Acetone
5	134	256ABC	Ammoninum fluoride solution
47	56C	1234AB	Aliminium sulfate solutuin 2%
4	126	345ABC	Ammonium hydroxide solution
69	14A	2356BC	Ammonium hydroxide solution with 1% EDTA
65	25B	1346AC	B-6 positive developer
14	245	136ABC	BOE 1 (AF 500:1)
15	246	135ABC	BOE 2 (AF 9:1 und BOE 20:1)
61	45A	1236BC	BOE 3 (AF LST)
18	346	125ABC	BOE 4 (AFW)
62	46B	1235AC	BOE 5 (AFW LST)
64	46A	1235BC	Choline
13	236	145ABC	Chrome Etch
31	5AB	12346C	EBR 1
32	6BC	12345A	EBR 2
70	14B	2356AC	EKC 265
28	2AB	13456C	Etching mixture AWAp
52	23A	1456BC	Etch solution 4279
41	36C	1245AB	Etching mixture PWS (H3PO4/HNO3)
27	2AC	13456B	Etching mixture SEF (HNO3/CH3COOH/HF)
60	45C	1236AB	Etching mixture SF (HNO3/HF)
8	145	236ABC	Etching mixture SPE (HNO3/H3PO4/CH3COOH)
16	256	134ABC	Etching mixture SPF (HNO3/H3PO4/HF) and PESF (H3PO4/CH3COOH/HNO3/HF)
43	36B	1245AC	Ethylene glycol
68	12C	3456AB	HMDS
6	135	246ABC	Hydrochloric acid
11	234	156ABC	Hydrofluoric acid < 20%
12	235	146ABC	Hydrofluoric acid 20% - 60%
59	45B	1236AC	Hydrofluoric acid 61% - 75%
67	25A	1346BC	Hydrofluoric acid alcohol mixture

4. Chemical code

7	136	245ABC	Hydrogen peroxide
40	13B	2456AC	IPA/Amin/DPGME
24	1AC	23456B	Isopropyl alcohol
1	123	456ABC	Nitric acid
23	1BC	23456A	NMP
39	13A	2456BC	NMP/TMAH
36	3AC	12456B	NOE-Etch
48	56A	1234BC	not assigned
49	56B	1234AC	not assigned
50	23B	1456AC	not assigned
51	23C	1456AB	not assigned
53	35B	1246AC	not assigned
54	35C	1246AB	not assigned
55	35A	1246BC	not assigned
56	26B	1345AC	not assigned
57	26C	1345AB	not assigned
58	26A	1345BC	not assigned
66	25C	1346AB	PGMEA
10	156	234ABC	Phosphoric acid
25	1AB	23456C	Potassium dichromate solution
17	345	126ABC	Potassium hydroxide solution
20	456	123ABC	Recirculation
9	146	235ABC	Sodium hydroxide solution
33	6AC	12345B	SOG
42	36A	1245BC	Solvent EG-APB
37	3AB	12456C	Solvent NMP-AE
44	4BC	12356A	Spin-Etch BT (20-30% HNO3/15-25% H2SO4/10-20% HF/ 10-20% H3PO4)
45	4AC	12356B	Spin-Etch D (35-45% HNO3/ 10-20% H2SO4/1-7% HF/ 15-25% H3PO4)
46	4AB	12356C	Spin-Etch E (5-10% HNO3/ 75-85% H2SO4/1-5% HF%)
2	124	356ABC	Sulfuric acid
19	356	124ABC	TMAH 1 with tenside
29	5BC	12346A	2,38% TMAH 2 with tenside
30	5AC	12346B	TMAH 3 with tenside
34	6AB	12345C	TMAH 4 with tenside
35	3BC	12456A	2,38% TMAH 5 without tenside
38	13C	2456AB	White Spirit
26	2BC	13456A	Wright Etch

The chemical user, resp. operator, is responsible for not assigned codings used in his section.
The chemicals' supplier should be informed about actually/currently used codings.

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5. Quick Connect Closure torques

The supplier of chemicals is responsible for the safety of chemical transportation.

AS recommends the following closure torques for closing drums or containers with Quick Connect dip tubes, closures or adaptors:

Packaging type Packaging code UN	Steel plastic combination 1A1 / 6HA1	Plastic drums 1H1			Composite-IBC 31HA1 / 31HH1	
Thread (BCS)	56 x 4	56 x 4	62 x 5	70 x 6	62 x 5	70 x 6
Closure torques [Nm]	30 +5	30 +5	35 +5	35 +5	35 +5	35 +5
for the S 24 x 2 closure (dip tubes and adaptor) generally 5 Nm +1 for the QC 42 x 2 closure (dip tubes and adaptor) generally 10 Nm -2						

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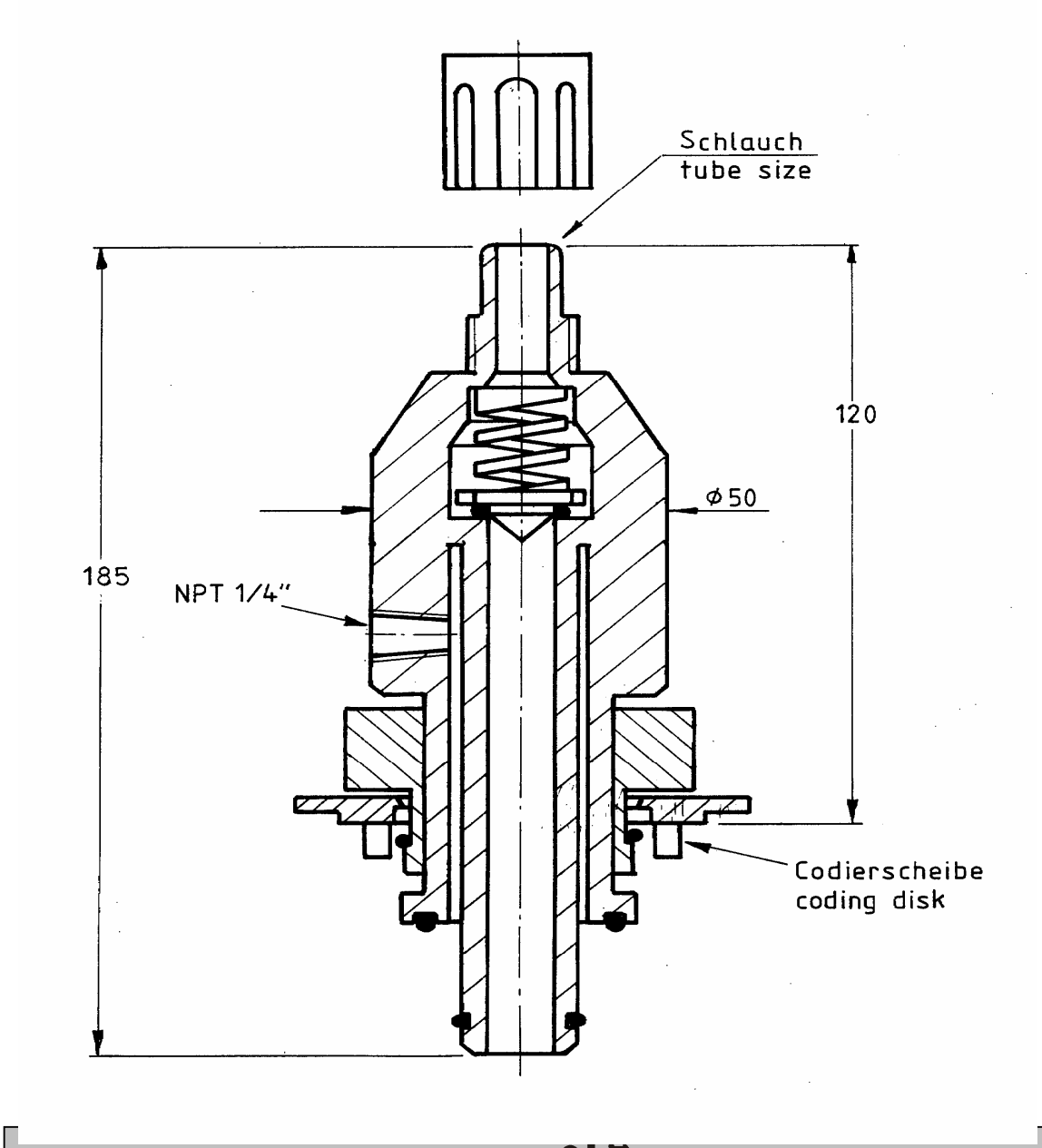
6. Quick Connect sectional view of dispense head



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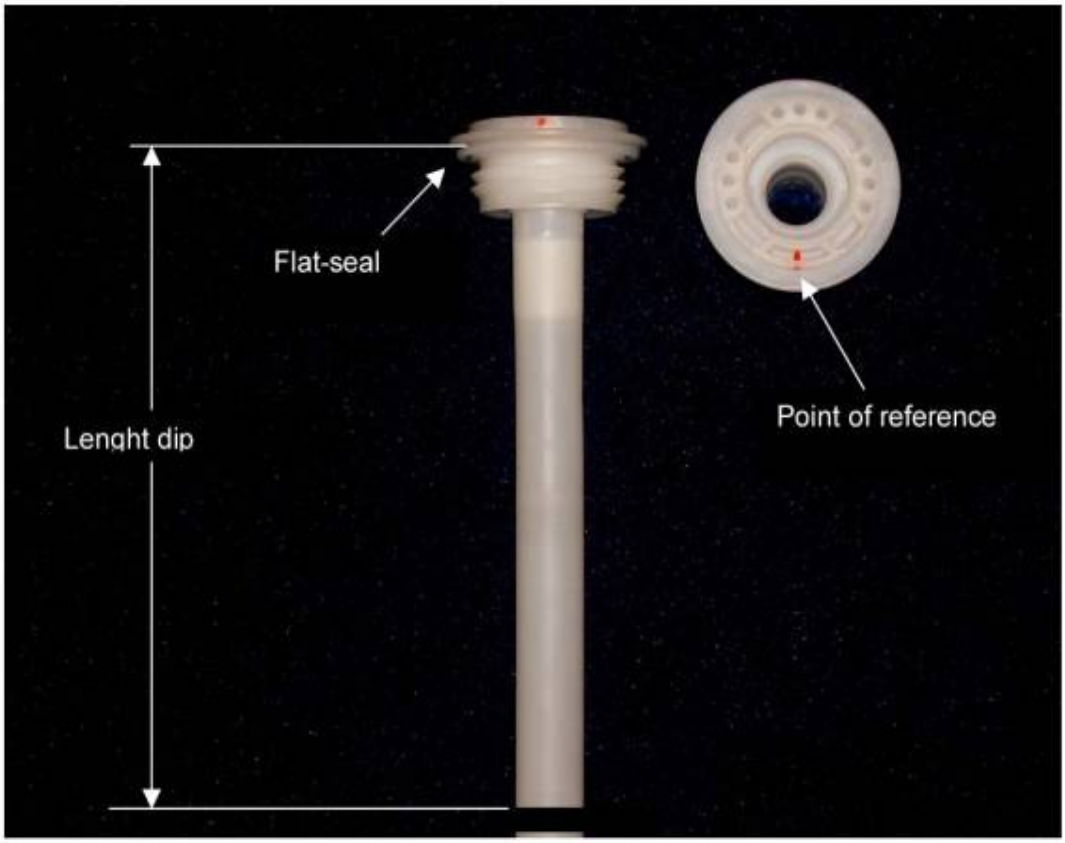
7. Quick Connect sectional view of dip tube

Dip Tube with chem-code for Quick Connect 2



description :	look international Code of dip tube
receptacle connection:	S62 – S56 – S70 – S70 (Kodama) – G2" - KS60
lenght dip:	look international Code of dip tube or to instruction of container manufacturer.
chemical Code:	look code-list
materials:	dip tube PE - stopper PE/PP - seal PE

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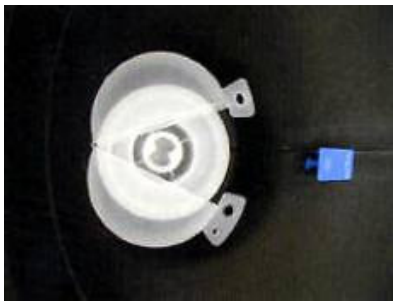
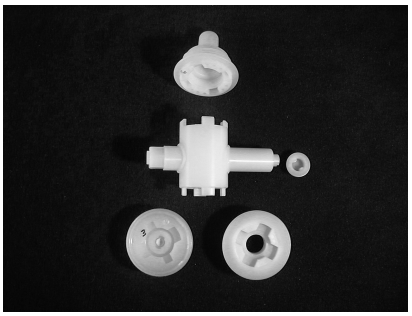
8. Quick connect accessories

Seal cap

Originality safety mechanism S62
to secure barrel stoppers and dip - tubes QC with thread S62
No. RDH-89740



Originality safety mechanism System QC
to secure dip - tubes QC S62; S70; S56
stopper 42 – RDH-69323-01
originality safety cap - RDH-69908
lead seal blue – RDH-69908-1
lead seal red – RDH-69908-2



Barrel key

to open and lock the barrrel stoppers of the QC System, AS stopper S62, Fluoroware S62 und G3/4"-stopper with 6-kt for torque key
No. RDH-79003

Particle filter 0,2µm

the filter only lets filtrated air to the pressure balance into the container
No. RDH-89905

Dust protection cap

to protect the dip – tube from pollution
No. RDH-69913

Coding disk

if the QC – head is used for another medium
No. RDH-89701

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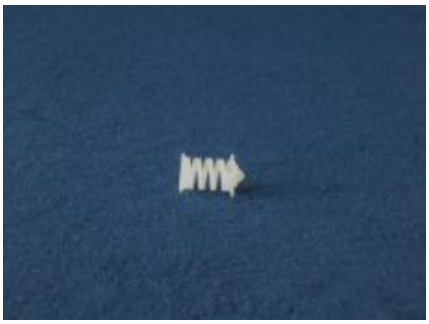
Data sheet

8. Quick connect accessories



Spring for QC 2
No. RDH-89700-05

Tube stretchers for Flaretek® connection

¼" tube
3/8" tube
½" tube
¾" tube
1" tube
1 ¼" tube

Code - gaging

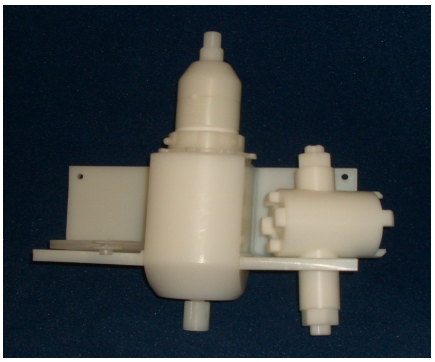
for the safe coding of dip – tubes for QC 2
No. RDH-89701-02

Stopper with degassing valve and Cover plate

for the pressure balance in the container.
The Pressure compensation valve works:

- manual at excess pressure
- automatic at below atmospheric pressure

No. RDH-69314



Docking station

for the secure and contamination free rest of the QC – dispense head;
with rest possibility for barrel key etc..
No. RDH-89740

PFA – tube

NW ¼" No. R12S110
NW ½" No. R12S120
NW ¾" No. R12S140

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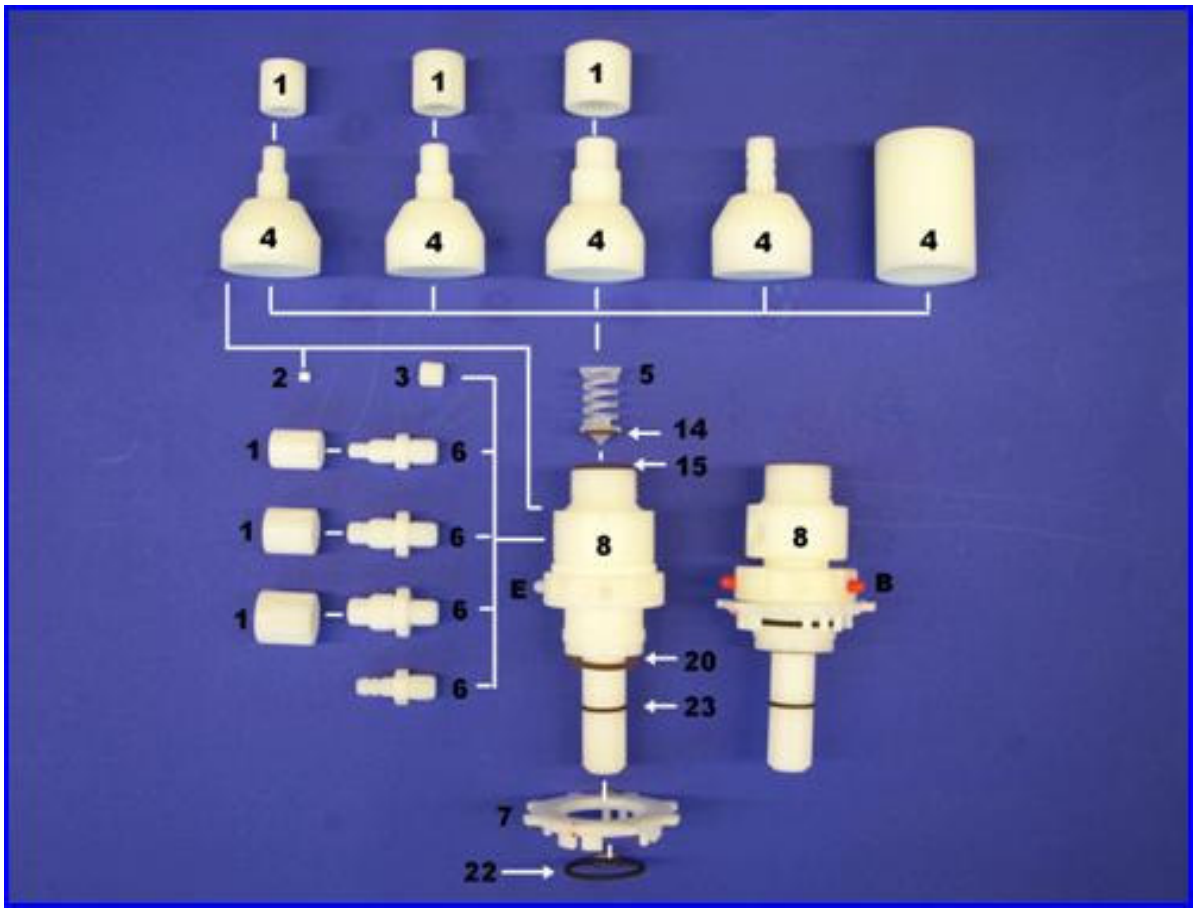
9. Spare parts QC-2 Quick Connect dispense head

(Ersatzteile QC-2 Kopf / Quick Connect Entnahmesystem)

Explosions-Darstellung QC-2 Kopf (Exploded view of QC-2 dispense head)

Bitte bestellen Sie die benötigten Ersatzteile unter der jeweiligen Bestellnummer.
Weitere Anschlussoptio-nen jederzeit auf Wunsch möglich.

(Please order the required spare parts under the respective order number.
Additional connection options any time on request possible.)



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Spare parts QC-2 Quick Connect dispense head

(Ersatzteile QC-2 Kopf / Quick Connect Entnahmesystem)

1

Mutter(*nut)* 1/4“ Best.Nr/*order No.*: FL 4-1 PE
Mutter (nut) 3/8“ Best.Nr/*order No.*: FL 6-1 PE
Mutter (nut) ½“ Best.Nr/*order No.*: FL 8-1 PE
Mutter (nut) ¾“ Best.Nr/*order No.*: FL 12-1 PE

2

Gewindestift (*thread pin)* Best.Nr/*order No.*: E-12942

3

Blindstopfen *(dummy cover)* Best.Nr/*order No.*: RDH-89708

4

Anschlusszapfen (*fitting)* 3/8“ Best.Nr/*order No.*: RDH-89700-12
Anschlusszapfen (*fitting)* ½“ Best.Nr/*order No.*: RDH-89700-02
Anschlusszapfen (*fitting)* ¾“ Best.Nr/*order No.*: RDH-89700-11
Schlauchanschluss *(Tube contact)* ½“
Best.Nr/*order No.*: RDH-89719-02
Anschlusszapfen innen (*fitting inside)* NPT ½“
Best.Nr/*order No.*: RDH-89720-02

5

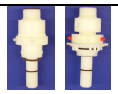
- Ventilkegel (check-valve*)*
  Best.Nr/*order No.*: RDH-89700-5

6

Flaretek ¼“ Best.Nr/*order No.*: C4-4FN-PE
Flaretek 3/8“ Best.Nr/*order No.*: C4-6FN-PE
Flaretek ½“ Best.Nr/*order No.*: C4-8FN-PE
Schlauchanschluss (*Tube contact*) ¼“
Best.Nr/*order No.*: RDH-89742

7

- Codierscheibe / *encoder disc* Best.Nr/*order No.*: RDH-89701

8 

- Grundkörper **E** Entnahme*(Basic model dispense)*
  Best.Nr/*order No.*: RDH-89700-15
- Grundkörper **B** Befüllung
  (Basic model filling) Best.Nr/*order No.*: RDH-89730-15

14

- O-Ring Kalrez #31018 Best.Nr/*order No.*: D-11125

15

- O-Ring Kalrez # 023 Best.Nr/*order No.*: AS-568A023

20

- O-Ring Kalrez # 216
  Best.Nr/*order No.*:
  AS-568A216

22

- O-Ring Viton 35x3 schwarz (*black)* Best.Nr/*order No.*: D-13531

23

- O-Ring Kalrez # 31022 Best.Nr/*order No.*: D-11624

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