



ÄKTA ready Flow Kit ReadyMate Enabled

Product Documentation

Manuals Delivered with the ÄKTA ready system

- 28960345 Operating Instructions
- 28936561 Unpacking Instructions ÄKTA ready
- 29042082 Unpacking Instructions ÄKTA ready gradient
- 28938251 Column Trolley User Manual

Note: *The documentation included in this binder is only valid for the original state of the ReadyMate™ Enabled ÄKTA™ ready Flow Kit as when delivered from the factory.*

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1 General Specifications

Code Number

- 29007855 ÄKTA ready Low Flow Kit ReadyMate
- 29007856 ÄKTA ready High Flow Kit ReadyMate

Flow Kit Specifications

	Low	High
Tubing diameter (i.d)	6.4 mm	9.5 mm
Inlet manifold diameter (i.d)	9.5 mm	12.7 mm
Pump tubing diameter (i.d)	8 mm	12 mm
Flow rate range	3 to 175 L/h	7.5 to 510 L/h
Total volume	0.762 L	2.145 L
Air trap volume	0.502 L	1.619 L
Inlet connector (i.d)	RM DAC 375; 9.5 mm	RM DAC 500; 12.7 mm
Outlet connector (i.d)	RM DAC 250; 6.4 mm	RM DAC 375; 9.5 mm
No of inlets/outlets	6/6	6/6
Ambient temperature	2°C to 30°C	2°C to 30°C
Liquid temperature	2°C to 40°C	2°C to 40°C
Estimated shelf life	2 years	2 years
Maximum operating pressure	5 bar g (72.5psi, 0.5 MPa) between pump and column	
Chemical environment	For details, see Operating instructions 28960345	

Note: For extended specifications refer to Operating Instructions 28960345.

Materials of Construction

Wetted parts	EPDM	Ethylene-propylene-diene monomer
	PA	Polyamide
	PEEK	Polyether-ether-ketone
	PP	Polypropylene
	TPE	Thermoplastic elastomer
	PMP	Polymethylpentene

	Silicone
	Titanium
PC	Polycarbonate
PVDF	Polyvinylidene-fluoride

Post-Assembly Treatment

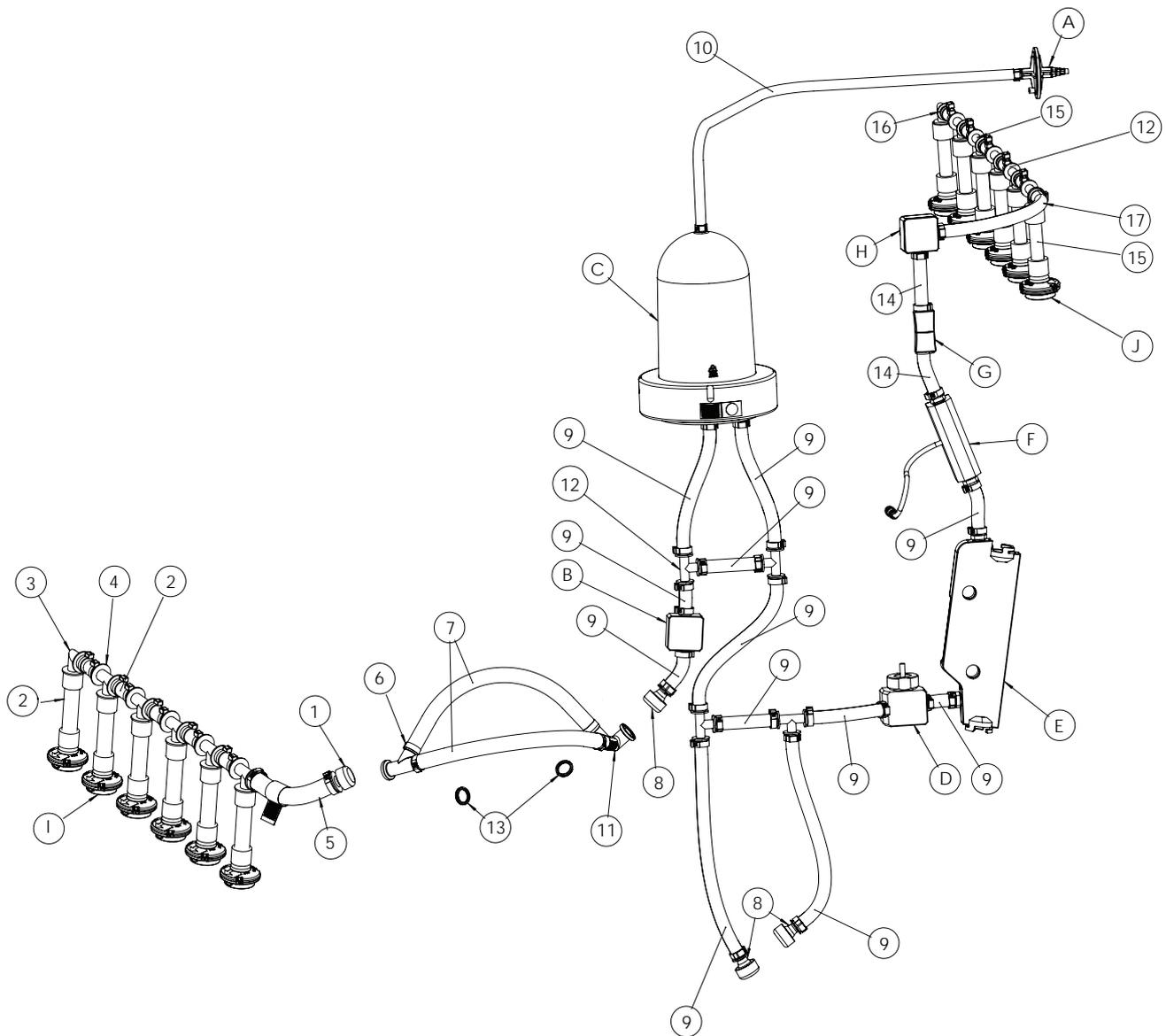
Gamma irradiation (Flow kit excl. pump tubing)	27.5 to 40 kGy
Autoclave (Pump tubing)	121°C > 15 min

Applicable Codes and Standards

Design code	Designed and stress calculated according to Good Engineering Practice
Quality Management System	Certified according to ISO 9001: 2015

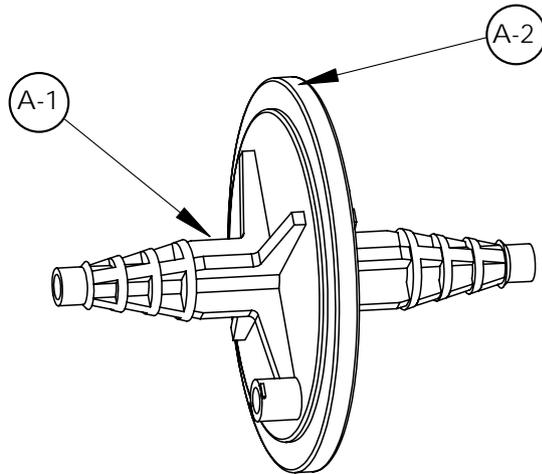
2 Product View

Flow kit – main view

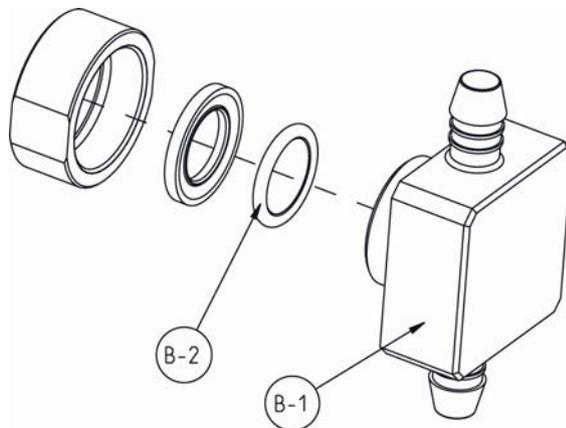


Note: pH-electrode 18116877 is available as an accessory.

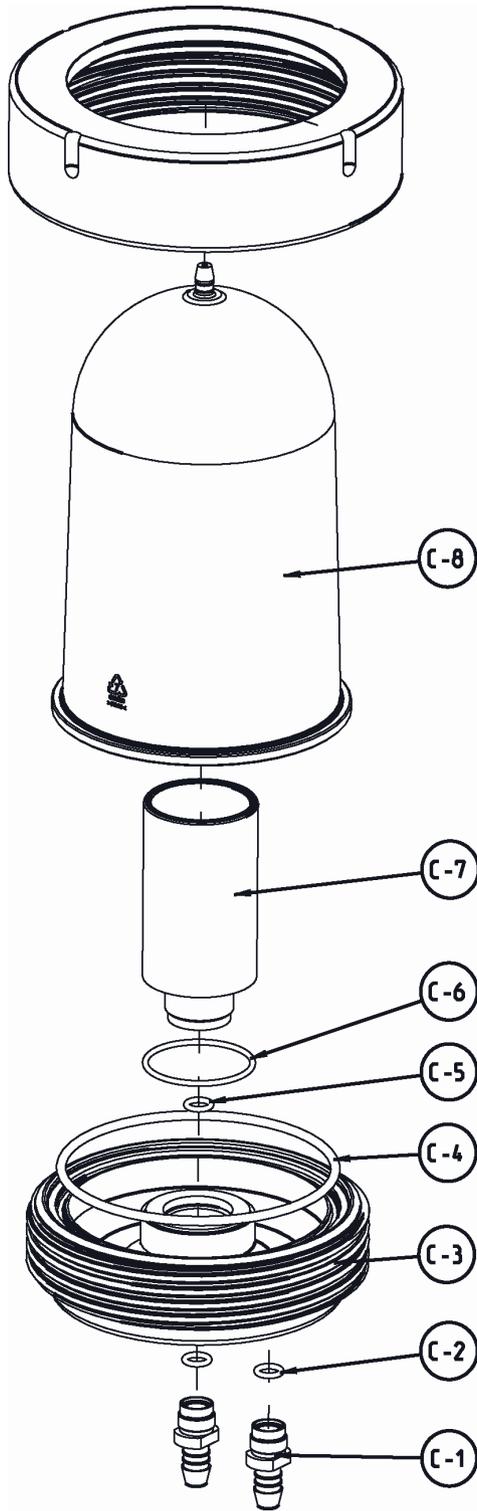
A - Vent Filter



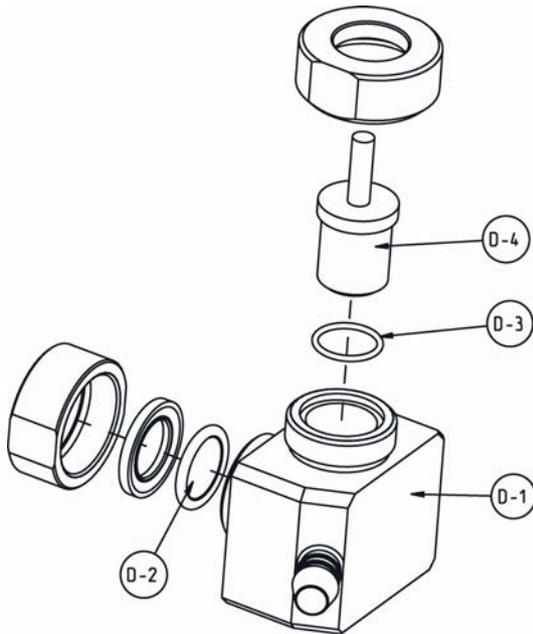
B - Pressure cell, inline



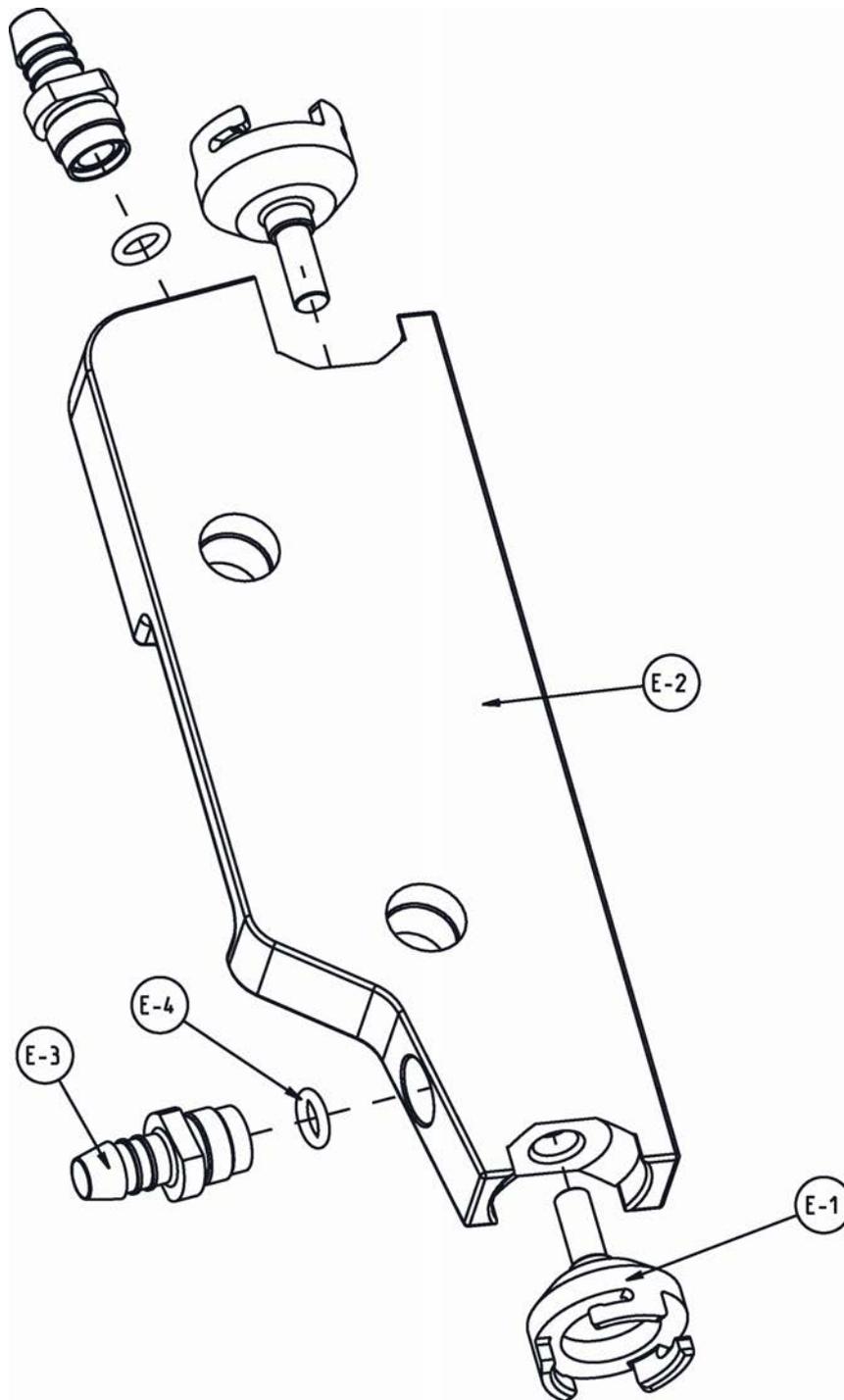
C - Air trap



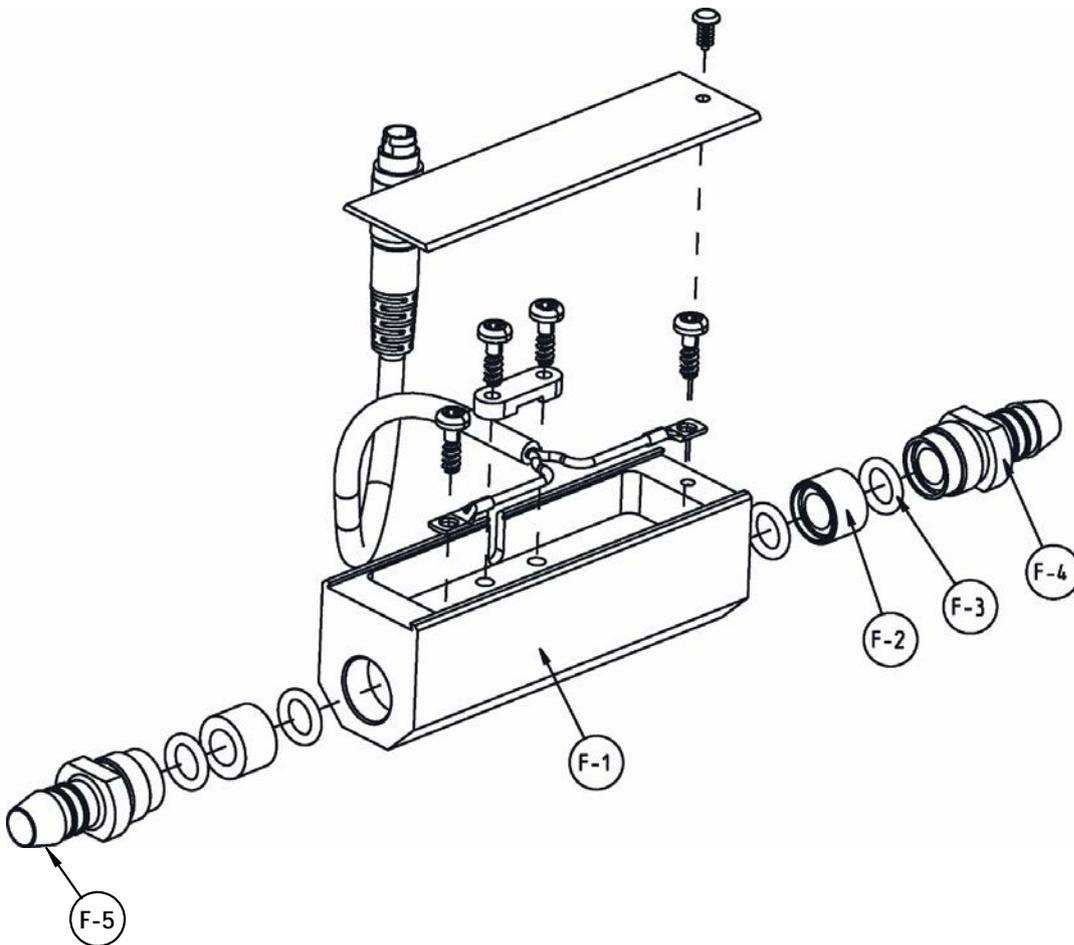
D - pH-P cell



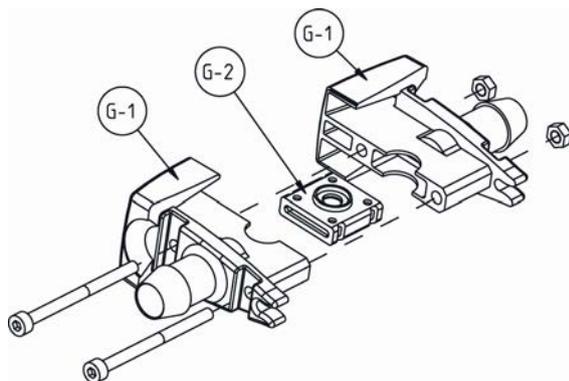
E - Flow meter cell



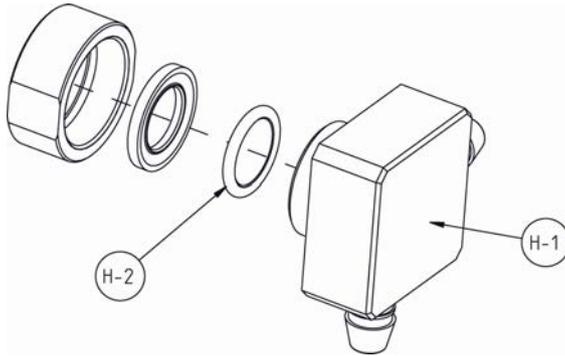
F - Conductivity cell



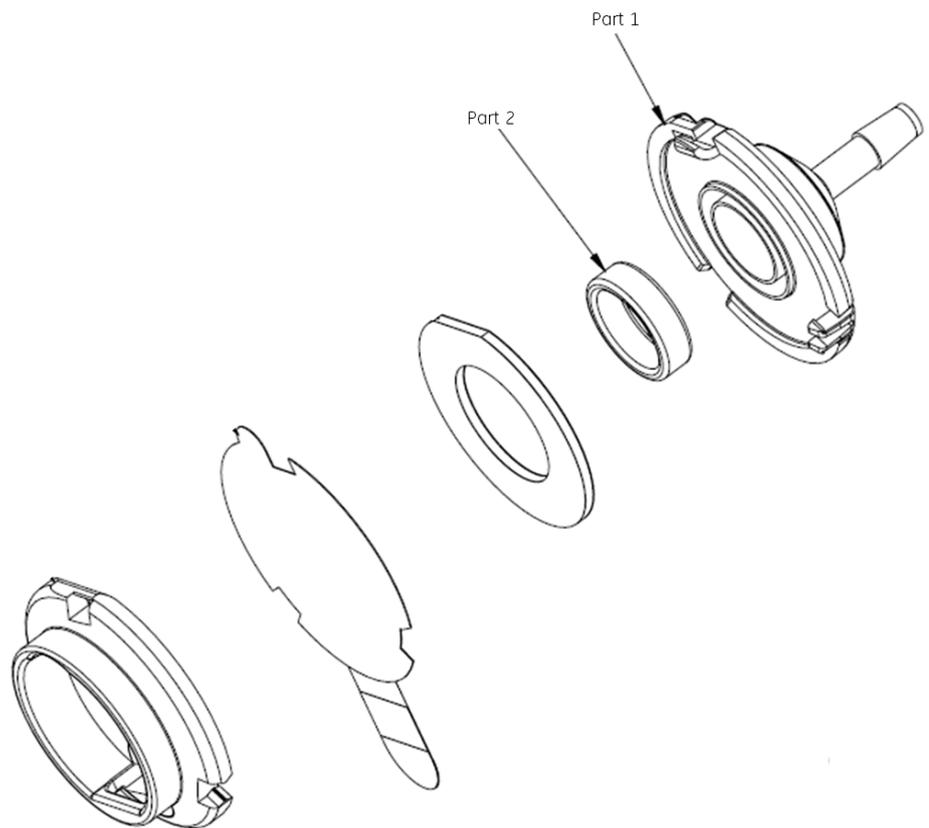
G - UV-cell



H - Pressure cell, angle



I and J – ReadyMate



3 Material Conformity

Material List

The materials below are used in parts that are in contact with the process fluids.

EPDM	Ethylene-propylene-diene monomer
PA	Polyamide
PEEK	Polyether-ether-ketone
PP	Polypropylene
TPE	Thermoplastic elastomer
PMP	Polymethylpentene
	Silicone
	Titanium
PC	Polycarbonate
PVDF	Polyvinylidene-fluoride

Part List

The parts listed below are in contact with the process fluids.

Pos No.	Component		Material
	Code No.	Description	
1 Low	28907078	TC connection 3/8"	PP
1 High	28907148	TC Connection, 1/2"	PP
2 Low	28920084	Hose i.d 9.5 o.d 15.9 Clear	Silicone
2 High	28920143	Hose i.d 12.7 o.d 19.1 Clear	Silicone
3 Low	28920085	Hose connection 3/8", L	PP
3 High	28920141	Hose connection 1/2", L	PP
4 Low	28920080	Hose connection 3/8", T	PP
4 High	28920142	Hose connection 1/2", T	PP
5 Low	28920079	Hose i.d 9.5 o.d 15.9 reinforced, Clear	Silicone
5 High	28920144	Hose i.d 12.7 o.d 22.2 reinforced, Clear	Silicone
6 Low	29224601	Y-connection, inlet small	PEEK
6 High	29224602	Y-connection, inlet large	PEEK
7 Low	28929589	Pump Hose, i.d 8, kit of 2 x L=307	PTFE + Silicone

3 Material Conformity

Pos No.	Component		Material
	Code No.	Description	
7 High	28929611	Pump Hose, i.d 12, kit of 2 x L=310	PTFE + Silicone
8 Low	28906900	TC connection 1/4"	PP
8 High	28907078	TC connection 3/8"	PP
9 Low	28920041	Hose i.d 6.4 o.d 12.7 reinforced, Clear	Silicone
9 High	28920079	Hose i.d 9.5 o.d 15.9 reinforced, Clear	Silicone
10	28920041	Hose i.d 6.4 o.d 12.7 reinforced, Clear	Silicone
11 Low	29224599	Y-connection, outlet small	PEEK
11 High	29224600	Y-connection, outlet large	PEEK
12 Low	28920038	Hose connection 1/4", T	PP
12 High	28920080	Hose connection 3/8", T	PP
13	28909674	TC-Gasket 25/15	EPDM
14	28920091	Hose i.d 9.5 o.d 15.9 reinforced black	Silicone
15 Low	28920086	Hose i.d 6.4 o.d 12.7 Clear	Silicone
15 High	28920084	Hose i.d 9.5 o.d 15.9 Clear	Silicone
16 Low	28920087	Hose connection 1/4", L	PP
16 High	28920085	Hose connection 3/8", L	PP
17 Low	28920089	Hose i.d 6.4 o.d 12.7 reinforced black	Silicone
17 High	28920091	Hose i.d 9.5 o.d 15.9 reinforced black	Silicone
A-1	87940091	Filter housing, Vent, Acro 50	PP
A-2	87940091	Filter, Vent, Acro 50	PVDF
B-1 Low	28927777	Pressure housing, inline small	PP
B-1 High	28926524	Pressure housing, inline large	PP
B-2	28926535	Pressure membrane	EPDM
C-1 Low	28920311	Hose connection, plain, 1/4"-M16	PP
C-1 High	28920174	Hose connection 3/8"-M16	PP
C-2 Low	28920105	O-ring 6.3 x 2.4	EPDM
C-2 High	28920136	O-ring 8.3 x 2.4	EPDM
C-3 Low	28920092	Air trap bottom, small	PP
C-3 High	28920207	Air trap bottom, large	PP
C-4 Low	28920102	O-ring 76 x 4	EPDM
C-4 High	28920134	O-ring 116 x 4	EPDM
C-5 Low	-	-	-
C-5 High	28920136	O-ring 8.3 x 2.4	EPDM

Pos No.	Component		Material
	Code No.	Description	
C-6 Low	-	-	-
C-6 High	28931437	O-ring 44.6 x 2.4	EPDM
C-7 Low	-	-	-
C-7 High	28931402	Conical insert, air trap	PP
C-8 Low	28920094	Housing air trap, small	PA
C-8 High	28920209	Housing air trap, large	PA
D-1 Low	28927779	pH-P housing, small	PP
D-1 High	28926545	pH-P housing, large	PP
D-2	28926535	Pressure membrane	EPDM
D-3	28926555	O-ring, 16.1 x 1.6	EPDM
D-4	28926549	Dummy, pH-electrode	PP
E-1	28920145	Flow meter bayonet plug	PMP
E-2 Low	28920125	Flow meter body, small	PMP
E-2 High	28920218	Flow meter body, large	PMP
E-3 Low	28920311	Hose connection, plain, 1/4"-M16	PP
E-3 High	28920174	Hose connection 3/8"-M16	PP
E-4 Low	28920105	O-ring 6.3 x 2.4	EPDM
E-4 High	28920136	O-ring 8.3 x 2.4	EPDM
F-1	28925682	Cond-cell housing	PP
F-2	28925686	Ring, cond-cell	Titanium Grade 2
F-3	28920136	O-ring 8.3 x 2.4	EPDM
F-4 Low	28920185	Hose connection, step, 1/4"-M16	PP
F-4 High	28920174	Hose connection 3/8"-M16	PP
F-5	28920174	Hose connection 3/8"-M16	PP
G-1	28920191	UV cell connection, moulded	PP
G-2	28920189	UV cell, double mould	PP TPE
H-1 Low	28927781	Pressure housing, angle small	PP
H-1 High	28926540	Pressure housing, angle small	PP
H-2	28926535	Pressure membrane	EPDM
I-Low	28956178	ReadyMate	Part 1: PC Part 2: Silicone
I-High	28956179	Part 1: Connector body Part 2: Silicone gasket	

3 Material Conformity

Pos No.	Code No.	Component Description	Material
J-Low	28956177	ReadyMate	
J-High	28956178	Part 1: Connector body Part 2: Silicone gasket	Part 1: PC Part 2: Silicone

The Quality system of Cytiva is certified according to ISO9001 and thereby guarantees full control of the product realization process. Cytiva has a controlled process for quality assurance in selection, assessment and evaluation of suppliers where strict adherence to specifications for all materials is the basis.

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