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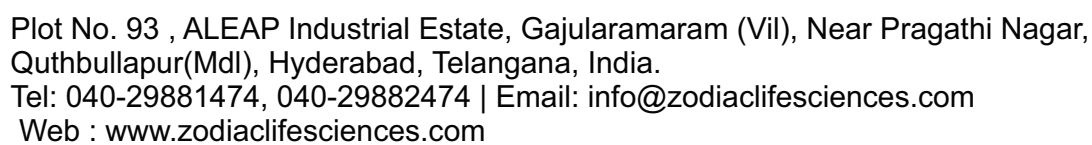
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A collection of various HPLC components is displayed on a white surface. The components include several metal fittings of different sizes and shapes, some with threaded ends and others with smooth ends. There are also small, circular metal discs, a larger circular metal plate with four holes, and a long, thin metal needle. The components are arranged in a scattered manner, showcasing the variety of parts available in the HPLC Product Catalog.



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ORDERING INSTRUCTIONS

BY PHONE
Call to 040 29881474 or 040 29882474
Our normal business hours are 9 a.m. to 6 p.m.
(Central Standard Time).

BY E-MAIL
sales@zodiaclifesciences.com

BY MAIL

Zodiac Life Sciences Pvt.Ltd
Plot No. 93 , ALEAP Industrial Estate,
Gajularamaram (Vil),Near Pragathi Nagar,
Quthbullapur(Mdl), Hyderabad, Telangana, India.
Tel: 040-29881474, 040-29882474
Email: info@zodiaclifesciences.com
Web : www.zodiaclifesciences.com

Please provide the following
information with your order:

- Purchase order number
- Name of purchaser
- Shipping address
- Billing address
- Telephone number
- Item quantities and part numbers
- Contact person in your accounts
payable department

BY CREDIT CARD
Visa, MasterCard, American Express

BY WEBSITE
www.zodiaclifesciences.com

TERMS
Various payment options available. Please contact customer relations or
your account manager for availability and qualification. No minimum
order size requirement.

SHIPPING
All packages are shipped according to customer requests. Our default
shipping protocol is UPS ground for domestic packages, and UPS express
for international shipments.

CUSTOMER
Contact Customer Service at 040 29881474 or 040 29882474 or contact
your Account Manager. Provide as much detail as possible about the part in
question, such as part number, lot number, date of purchase, etc. Describe
the situation in which the performance of the part was unsatisfactory.

Zodiac
We will provide you with a Return Material Authorization (RMA) number
and then ship a replacement.

SHIP RETURNS TO
Zodiac
Plot No. 93 , ALEAP Industrial Estate, Gajularamaram (Vil), Near Pragathi Nagar,
Quthbullapur(Mdl), Hyderabad, Telangana, India.
Tel: 040-29881474, 040-29882474 | Email: info@zodiaclifesciences.com
Web : www.zodiaclifesciences.com

Shipment of returned parts to Zodiac is the responsibility of
the customer; shipment of replacement parts to the customer's place of
business is the responsibility of Zodiac.

OUR PROCESS

materials. geometry.
performance. appearance.

Understanding the requirements of our customers and the analytical
instrumentation industry is at the core of our process for solid product
design. It all starts with listening. With years of experience and
discussions with a variety of customers, we have distilled what we've
learned into the four pillars of our product design process: materials,
geometry, performance, and appearance.

Our intent is to provide CTS replacement parts that are, in each case,
equivalent to the corresponding OEM part.

With the product process in mind, Zodiac pursues two possible
paths towards offering OEM alternative parts. Zodiac has cultivated
relationships with many parts and component manufacturing
companies that cater to high tech industries such as analytical
instrumentation. Zodiac uses these vendors wherever possible to
source parts that match the performance and look of the OEM's.
Alternatively, we develop the products in-house. This process
includes reverse engineering dimensions and materials, prototyping,
and testing.

Our desired outcome from this rigorous process is to provide you
with the analytical instrumentation parts and services you need, when
you need them — all supplied by friendly, knowledgeable people at a
reasonable price. We want you to be completely satisfied with every
aspect of your dealings with Zodiac, from order placement
through product delivery and performance. Please help us in our
pursuit. Let us know of any issues you have had with any order
from Zodiac. We will work with you to try and get it satisfactorily
resolved whether through warranty claims, product replacement or
process improvement.

That is our process and guarantee to you.



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Zodiac Life Sciences Pvt.Ltd
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- Item quantities and part numbers
- Contact person in your accounts payable department

BY CREDIT CARD
Visa, MasterCard, American Express

BY WEBSITE
www..zodiaclifesciences.com

TERMS
Various payment options available. Please contact customer relations or your account manager for availability and qualification. No minimum order size requirement.

SHIPPING
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WARRANTY
We view your business with us as a partnership based on mutual trust.

Our products are made according to the highest standards as a refecton of our commitment to quality, integrity and in accordance with our ISO certification. Therefore, we are glad to extend a Lifetime Warranty against any manufacturing defects on all Zodiac parts. Zodiac defnes the lifetime of a part in accordance with the normal expected performance of the equivalent OEM part. Our intention is to provide replacement parts that are equivalent to or better than the corresponding OEM part. On the rare occasion that you experience a problem with a Zodiac part, we invite you to contact us and share your problem with us. Every attempt will be made to bring resolution in a way that enhances our relationship with you, our valued customer.

Our warranty claim process is simple. Below is a brief outline of how to initiate a warranty claim.

CUSTOMER
Contact Customer Service at 040 29881474 or 040 29882474 or contact your Account Manager. Provide as much detail as possible about the part in question, such as part number, lot number, date of purchase, etc. Describe the situation in which the performance of the part was unsatisfactory.

Zodiac
We will provide you with a Return Material Authorization (RMA) number and then ship a replacement or credit your account.

SHIP RETURNS TO
Zodiac
Plot No. 93 , ALEAP Industrial Estate, Gajularamaram (Vil), Near Pragathi Nagar, Quthbullapur(Mdl), Hyderabad, Telangana, India.
Tel: 040-29881474, 040-29882474 | Email: info@zodiaclifesciences.com
Web : www.zodiaclifesciences.com

Shipment of returned warranty parts to Zodiac is the responsibility of the customer; shipment of replacement parts to the customer's place of business is the responsibility of Zodiac.

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OUR PROCESS
materials. geometry.
performance. appearance.

Understanding the requirements of our customers and the analytical instrumentation industry is at the core of our process for solid product design. It all starts with listening. With years of experience and discussions with a variety of customers, we have distilled what we've learned into the four pillars of our product design process: materials, geometry, performance, and appearance.

Our intent is to provide CTS replacement parts that are, in each case, equivalent to the corresponding OEM part.

With the product process in mind, Zodiac pursues two possible paths towards offering OEM alternative parts. Zodiac has cultivated relationships with many parts and component manufacturing companies that cater to high tech industries such as analytical instrumentation. Zodiac uses these vendors wherever possible to source parts that match the performance and look of the OEM's. Alternatively, we develop the products in-house. This process includes reverse engineering dimensions and materials, prototyping, and testing.

Our desired outcome from this rigorous process is to provide you with the analytical instrumentation parts and services you need, when you need them — all supplied by friendly, knowledgeable people at a reasonable price. We want you to be completely satisfied with every aspect of your dealings with Zodiac, from order placement through product delivery and performance. Please help us in our pursuit. Let us know of any issues you have had with any order from Zodiac. We will work with you to try and get it satisfactorily resolved whether through warranty claims, product replacement or process improvement.

That is our process and guarantee to you.



PUMP PARTS

MODEL: 1260, 1290



MODEL: 1260, G1312B,
COMPATIBLE TO G1310B &
G1311B
11-4145
OEM G1312-60020
Active Inlet Valve
Cartridge (600 bar)



MODEL: 1260, 1050,
1100, 1120, 1200, 1220
CTS-10303
OEM 5063-6586
Sapphire Plunger



MODEL: 1260, 1050,
1100, 1120, 1200, 1220
CTS-10417
OEM 5063-6589
Black Piston Seals, 2/pk



MODEL: 1260, 1050,
1100, 1120, 1200, 1220
CTS-11088
OEM 0905-1420
Gold Piston Seals, 2/pk



MODEL: 1260, 1050, 1100,
1120, 1200, 1220
CTS-10675
OEM 0905-1175
Wash Seal



MODEL: 1260, 1050,
1100, 1200, 1220
CTS-A11454
OEM 5067-4728
Seal Cap Assembly



MODEL: 1260, 1290, 1050,
1090, 1100, 1200, 1220
CTS-10843
OEM 5041-2168
Glass Solvent Filter



MODEL: 1290
11-3472
OEM 5068-0005
Rotor Seal, 5-Pos. 7-Port,
1200 Bar



MODEL: 1260, 1050, 1090,
1100, 1120, 1200, 1220,
G1310A, G1311A, G1312A,
G1376A
11-4146 KIT
OEM G1312-68741
PM Kit, G1312 Binary
Pump



- Black Piston Seals, 2/pk (CTS-10417) 2
- Frit, PTFE, 5/pk (CTS-10683) 1
- Gaskets (CTS-10812) 4
- Seal Cap Assembly (CTS-A11454) 3

MODEL: 1260, 1220
11-4147 KIT
OEM G1310-68741
PM Kit, 1260 & 1220
Pumps

- Black Piston Seals, 2/pk (CTS-10417) 1
- Frit, PTFE, 5/pk (CTS-10683) 1
- Seal Cap Assembly (CTS-A11454) 1

PUMP PARTS

MODEL: 1260, 1290



MODEL: 1260, 1290, 1050,
1090, 1100, 1200
CTS-11016 KIT
OEM 5062-2418
Swagelok ® Style Compression
Fitting Kit, 10/pk

- Nut 10
- Front Ferrule 10
- Back Ferrule 10



MODEL: 1260, 1100, 1200
CTS-11456
OEM 5021-1816
Capillary, 105mm x
0.17mm ID



MODEL: 1260, 1100, 1200
CTS-11457
OEM 5021-1817
Capillary, 150mm x
0.17mm ID



MODEL: 1260, 1100, 1200
CTS-11458
OEM 5021-1818
Capillary, 280mm x
0.17mm ID



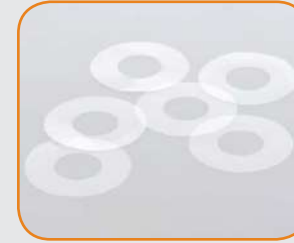
MODEL: 1260, 1100, 1200
CTS-11459
OEM 5021-1819
Capillary, 400mm x
0.17mm ID



MODEL: 1260, 1100,
1200, G1312
CTS-A11456
OEM G1312-87306
Assy, Capillary, 105mm x
0.17mm ID, w/Fittings



MODEL: 1260, 1100,
1200, G1312
CTS-A11459
OEM G1312-87303
Assy, Capillary, 400mm x
0.17mm ID, w/Fittings



MODEL: 1260, 1220, 1050,
1100, 1120, 1200
11-3321
OEM 5062-2484
Wash Seal Gasket, 6/pk

AUTOSAMPLER

MODEL: 1260, 1290



MODEL: 1260, 1100,
1200, 1220
CTS-10835
OEM G1313-87201
Needle Assembly



MODEL: 1260, 1100, 1120,
1200, 1220, G1313A,
G1329A/B
11-2605
OEM G1329-87017
Needle Seat, Std.,
PEEK K, 0.17mm ID



MODEL: 1260
CTS-12012
OEM 0101-1416
2 Position/6 Port
Rotor Seal, Vespel (600
bar)



MODEL: 1290
11-2312
OEM 5068-0007
2 Position /6 Port
Rotor Seal (1200 bar)



MODEL: 1260, 1100, 1120,
1200, 1220, G1313A,
G1329A/B
11-4148 **KIT**
OEM G1313-68719
PM Kit, G1329B

- Seal, Pump (CTS-0621) 1
- Needle Assembly (CTS-10835) 1
- 2 Position/6 Port Rotor Seal, Vespel (600 bar) (CTS-12012) 1
- Needle Seat, Std., PEEK 0.17mm ID(11-2605) 1

DETECTOR LAMPS

MODEL: 1260, 1290



MODEL: 1260, 1220 DAD,
G1315C/D, G1365C/D,
G7115A, G7165A
11-3984
OEM 2140-0820
Long Life Deuterium Lamp,
RFID (2000 hr)



MODEL: 1290, G4212A/B,
G7117A/B/C/D
11-4109
OEM 5190-0917
Long Life HiS Deuterium
Lamp, 8 pin, RFID
(2000 hr)



MODEL: 1260, 1100, 1200,
1220, G1315A/B, G1365A/B
CTS-A11218
OEM 2140-0813
Long Life Deuterium Lamp
(2000 hr)

PUMP PARTS

MODEL: 1220, 1200, 1100



MODEL: 1220, 1050, 1100,
1120, 1200, 1260
CTS-10303
OEM 5063-6586
Sapphire Plunger



MODEL: 1220, 1050, 1100,
1120, 1200, 1260
CTS-10417
OEM 5063-6589
Black Piston Seals, 2/pk



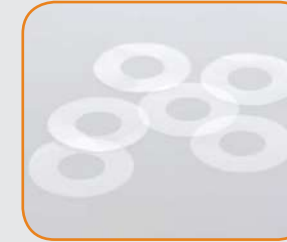
MODEL: 1220, 1050, 1100,
1120, 1200, 1260
CTS-11088
OEM 0905-1420
Gold Piston Seals, 2/pk



MODEL: 1220, 1050, 1100,
1200, 1260
CTS-A11454
OEM 5067-4728
Seal Cap Assembly



MODEL: 1220, 1050, 1100,
1120, 1200, 1260
CTS-10675
OEM 0905-1175
Wash Seal



MODEL: 1220, 1050, 1100,
1120, 1200, 1260
11-3321
OEM 5062-2484
Wash Seal Gasket, 6/pk
\$29.13



MODEL: 1220, 1050, 1090, 1100, 1120, 1200, 1260,
G1310A, G1311A, G1312A, G1376A

11-4146 **KIT**
PM Kit, G1312 Binary Pump

- Black Piston Seals, 2/pk (CTS-10417) 2
- Frit, PTFE, 5/pk (CTS-10683) 1
- Gaskets (CTS-10812) 4
- Seal Cap Assembly (CTS-A11454) 3

PUMP PARTS

MODEL: 1100, 1200



MODEL: 1100, 1200, 1050, G1310A, G1311A, G1312A/C, G1322A, G1376A, COMPATIBLE TO G1311C, INFINITY AND 1260 INFINITY CAP/NANO PUMPS

CTS-10673
OEM 5062-8562
Active Inlet Valve Cartridge (400 bar)



MODEL: 1100, 1200
CTS-A162
OEM G1312-60012
Outlet Ball Valve, (400 bar) Binary Pump



MODEL: 1100, 1200, 1050
CTS-10674
OEM G1311-60012
Outlet Ball Valve



MODEL: 1100, 1200, 1050
CTS-10807
OEM 5063-6505
Outlet Valve Sieves, 10/pk



MODEL: 1100, 1200, 1050
CTS-10683
OEM 01018-22707
PTFE Frits, 5/pk



MODEL: 1100, 1200, 1220, 1260, 1290, 1050, 1090
CTS-10843
OEM 5041-2168
Glass Solvent Filter



MODEL: 1100, 1200, 1050, 1090
CTS-A11259
OEM 01018-60025
Solvent Inlet Filter, SS



MODEL: 1100, 1200, 1220, 1050, 1090
11-1240
OEM 5063-6591
Fingertight One Piece 10-32 PEEK Male Nut/Ferrule for 1/16" OD Tubing, 10/pk



MODEL: 1100, 1200, 1050
CTS-10800 **KIT**
Seal Wash Kit, Binary Pump
• Seals (CTS-10675) 4
• Gaskets (CTS-10812) 4



MODEL: 1100, 1200, 1050
CTS-10814 **KIT**
OEM G1310-68731
Seal Wash Kit
• Seals (CTS-10675) 2
• Wash Seal Gasket, 6/pk (11-3321) 1

PUMP PARTS

MODEL: 1100, 1200



MODEL: 1100, 1200, 1050
CTS-10833 **KIT**
OEM G1311-68710
Pump Maintenance Kit
• Black Piston Seals, 2/pk (CTS-10417) 2
• Active Inlet Cartridge (CTS-10673) 1
• PTFE Frits (CTS-10712) 2
• Glass Solvent Filter (CTS-10843) 2
• Seal Cap Assembly (CTS-A11454) 1



MODEL: 1100, 1200, 1050
CTS-11284 **KIT**
OEM 5065-4499
Extended Isocratic Pump PM Kit
• Sapphire Plunger (CTS-10303) 2
• Black Piston Seals, 2/pk (CTS-10417) 1
• Active Inlet Cartridge (CTS-10673) 1
• Outlet Ball Valve (CTS-10674) 1
• Frit, PTFE, 5/pk (CTS-10683) 1



MODEL: 1100, 1200
CTS-11285 **KIT**
OEM G1312-68730
Binary Pump PM Kit
• Black Piston Seals, 2/pk (CTS-10417) 2
• Seal Cap Assembly (CTS-A11454) 3
• PTFE Frits (CTS-10712) 2
• Screen Filter (CTS-10781) 2



MODEL: 1100, 1200
CTS-11286 **KIT**
OEM G1310-68730
PM Kit for Isocratic/Quarternary Pump
• Black Piston Seals, 2/pk (CTS-10417) 1
• PTFE Frits (CTS-10712) 2
• Seal Cap Assembly (CTS-A11454) 2



MODEL: 1100, 1200, 1260, 1290, 1050, 1090
CTS-11016 **KIT**
OEM 5062-2418
Swagelok Style Compression Fitting Kit, 10/pk
• Nut 10
• Front Ferrule 10
• Back Ferrule 10



MODEL: 1100, 1200, 1260
CTS-11456
OEM 5021-1816
Capillary, 105mm x 0.17mm ID



MODEL: 1100, 1200, 1260
CTS-11457
OEM 5021-1817
Capillary, 150mm x 0.17mm ID



MODEL: 1100, 1200, 1260
CTS-11458
OEM 5021-1818
Capillary, 280mm x 0.17mm ID



MODEL: 1100, 1200, 1260
CTS-11459
OEM 5021-1819
Capillary, 400mm x 0.17mm ID



MODEL: 1100, 1200, 1260, G1312
CTS-A11456
OEM G1312-87306
Assy, Capillary, 105mm x 0.17mm ID, w/Fittings



MODEL: 1100, 1200, 1260, G1312
CTS-A11459
OEM G1312-87303
Assy, Capillary, 400mm x 0.17mm ID, w/Fittings

AUTOSAMPLER

MODEL: 1100, 1200



MODEL: 1100, 1120, 1220,
G1313A, G1329A/B
11-4059
OEM 01078-87302
Capillary, Loop, 100µL



MODEL: 1260, 1100, 1120,
1200, 1220, G1313A,
G1329A/B
11-4148 **KIT**
OEM G1313-68719
PM Kit, G1329B

- Seal, Pump (CTS-10621) 1
- Needle Assembly (CTS-10835) 1
- 2 Position/6 Port Rotor Seal, Vespel (600 bar) (CTS-12012) 1
- Needle Seat, Std., PEEK 0.17mm ID (11-2605) 1



MODEL: 1100, 1200, G1313,
G1313A, G1327A
G1329A
CTS-11287 **KIT**
OEM 5065-4498
Extended PM Kit for
Standard Autosamplers

- Isolation Seal (CTS-11288) 1
- Rotor Seal Assy (CTS-10459) 1
- Stator Face Assy (CTS-A10678) 1
- Needle Assembly (CTS-10835) 1
- Needle Seat, Std., PEEK K, 0.17mm ID (11-2605) 1



MODEL: 1100, 1200, G1313,
G1313A, G1327A
G1329A
CTS-11283 **KIT**
OEM G1313-68730
PM Kit for Standard
Autosamplers

- Rotor Seal Assy (CTS-10459) 1
- Needle Assembly (CTS-10835) 1
- Needle Seat, Std., PEEK K, 0.17mm ID (11-2605) 1



MODEL: 1100, 1200,
1220, 1260
CTS-10835
OEM G1313-87201
Needle Assembly



MODEL: 1100, 1120, 1200,
1220, 1260, G1313A,
G1329A/B
11-2605
OEM G1329-87017
Needle Seat, Std., PEEK K,
0.17mm ID



MODEL: 1100, 1200
CTS-10459
OEM 0100-1853
Rotor Seal, Vespel,
2-Groove, 7750-040



MODEL: 1100, 1200, G1313, G1327A
CTS-10722 **KIT**
OEM G1313-68709
Autosampler Preventative Maintenance Kit

- Rotor Seal Assy (CTS-10459) 1
- Black Piston Seals, 2/pk (CTS-10417) 1
- Needle Assembly (CTS-10835) 1
- Needle Seat, Std., PEEK K, 0.17mm ID (11-2605) 1
- Finger Caps, 3/pk (CTS-10834) 1

AUTOSAMPLER

MODEL: 1100, 1200



MODEL: 1100, 1200
CTS-11419
OEM 0100-1855
Rotor Seal, Vespel
for p/n 0101-0921



MODEL: 1100, 1200
CTS-A10678
OEM 0100-1851
Stator Face Assembly
for 0101-0921 Valve



MODEL: 1100, 1200
CTS-11288
OEM 0100-1852
Isolation Seal for
0101-0921 Valve



MODEL: 1100, 1200
CTS-11356
OEM G1313-87202
Needle, 900µL



MODEL: 1100, 1200
CTS-A019
OEM 0101-0623
Manual Injection Valve
Rotor Seal, Vespel



MODEL: 1100, 1200
CTS-A11329
OEM 0100-1859
Stator Face Assembly for
5063-6502 Valve

DETECTOR LAMPS

MODEL: 1100, 1200



MODEL: 1100, 1200 DAD,
G1315A/B, G1365A/B
CTS-10473
OEM 2140-0590
Deuterium Lamp (1000 hr)



MODEL: 1100, 1120, 1200
VWD, 1220 VWD, G1314A/B
CTS-10494
OEM G1314-60100
Long Life Deuterium Lamp
(2000 hr)



MODEL: 1100, 1200 DAD,
G1315A/B, G1365A/B
CTS-10827
OEM 5181-1530
Long Life Deuterium Lamp
(2000 hr)



MODEL: 1100, 1200, 1220,
1260, G1315A/B, G1365A/B
CTS-A11218
OEM 2140-0813
Long Life Deuterium Lamp
(2000 hr)



MODEL: 1100 DAD, 1200
DAD
11-4110
OEM 5182-1530
Long Life Deuterium Lamp
(2000 hr)

BECKMAN

PUMP PARTS



MODEL: 100A, 110A,
110B, 112, 114M, 116,
118, 125, 126, 127, 128
CTS-0620
OEM 240621
Outlet Check
Valve Cartridge



MODEL: 100A, 110A,
110B, 112, 114M, 116,
118, 125, 126, 127, 128
CTS-0621
OEM 240620
Inlet Check
Valve Cartridge



MODEL: 100A, 110A,
110B, 112, 114M, 116,
118, 125, 126, 127, 128
CTS-0721
OEM 240721
Outlet Check
Valve Assembly



MODEL: 100A, 110A,
110B, 112, 114M, 116,
118, 125, 126, 127, 128
CTS-0720
OEM 240720
Inlet Check
Valve Assembly



MODEL: 110A, 110B, 112,
114M, 116, 118, 125, 126,
127, 128
CTS-A033
OEM 240619
Check Valve
Filter Replacement Kit



MODEL: 114M, 116,
118, 125, 126, 127, 128
CTS-2369
OEM 240714
Sapphire Plunger



MODEL: 114M, 116,
118, 125, 126, 127, 128
CTS-7162
OEM 237162, 728770
Plunger Seal, Black



MODEL: 114M, 116,
118, 125, 126, 127, 128
CTS-10557
OEM 728770
Plunger Seal, Gold



MODEL: 125, 126, 127, 128
CTS-10391
OEM 728772, 238627
Plunger Wash Seal

DIONEX

PUMP PARTS



MODEL: ICS-3000,
ICS-5000
11-2587
OEM 063382
Piston Seal Wash
Seal/Priming Valve Seal



MODEL: ICS-3000,
ICS-5000
11-2588
OEM 064946
Main Piston Seal

AUTOSAMPLER



MODEL: WPS-3000
11-3332
OEM 6822.0002
100µL Syringe for
WPS-3000 Series

PUMP PARTS



MODEL: 655, 6000, 6200,
6200A, L-7100, L-7110, L-7120,
L-2130, L-2160U, L-8800,
L-8800A, L-8900
CTS-10322
OEM ANO-2328, 810-1033
Ceramic Plunger



MODEL: 655, 6000, 6200,
6200A, L-2130, L-7100,
L-7110, L-7120
CTS-10394
OEM 655-1080
Pump Seal, Black



MODEL: 655, 6000, 6200,
6200A, L-2130, L-7100,
L-7110, L-7120
CTS-10547
OEM 655-1080
Pump Seal, Gold



MODEL: 655, 6000,
6200, 6200A, L-2130,
L-7100, L-7110
CTS-10493
OEM ANO-0835
Check Valve Cartridge,
2/pk



MODEL: L-2130,
L-7100, L-7110
CTS-A125
OEM ANO-0836, 810-1004
Inlet Check
Valve Assembly



MODEL: L-2130,
L-7100, L-7110
CTS-A126
OEM ANO-0837, 810-1005
Outlet Check
Valve Assembly

AUTOSAMPLER



MODEL: AS-7200,
AS-7250
CTS-10573
OEM ANO-0818
Injection Valve
Rotor Seal

INJECTOR VALVE



MODEL: 7000,
7010, 7040, 7067
CTS-A083
OEM 7010-039
Rotor Seal, VespeI



MODEL: 7125, 7126,
7725, 7725i, 9725
CTS-A019
OEM 7125-047
Rotor Seal, VespeI



MODEL: 7010, 7725, 7725i,
9725, 9725i, 3725-038,
3725i-038, 3725, 3725i
CTS-10612
OEM 7010-015
Isolation Seal



MODEL: 7725, 7725i, 7726,
9725, 9725i
CTS-A11329
OEM 7725-026
Stator Face Assembly

PERKINELMER/ABI

PUMP PARTS



MODEL: 200 SERIES,
1, 2, 3, 3B, 4, 10, 250, 400,
410, 620, INT. 4000
CTS-10758
OEM 09907324
Pump Seal,
High Pressure



MODEL: 200 SERIES,
1, 2, 3, 3B, 4, 10, 250, 400,
410, 620, INT. 4000
CTS-10772
OEM 09907339
Pump Seal,
Low Pressure



MODEL: 200 SERIES,
1, 2, 3, 3B, 4, 10, 250, 400,
410, 620, INT. 4000
CTS-10757
OEM 02540275
High Pressure
Seal Kit **KIT**

- Pump Seal (CTS-10758) 4
- Backup Ring (CTS-10759) 4
- O-Ring (CTS-00230-02) 4



MODEL: 200 SERIES,
1, 2, 3, 3B, 4, 10, 250, 400,
410, 620, INT. 4000, SERIES
200 MICROPUMP
CTS-A159
OEM 02540177
Inlet Check Valve



MODEL: 200 SERIES,
1, 2, 3, 3B, 4, 10, 250,
400, 410, 620, INT. 4000,
SERIES 200 MICROPUMP
CTS-A157
OEM 02540197
Outlet Check Valve



MODEL: 200 SERIES
CTS-11265 **KIT**
OEM N2910383
S200 Standard
Pump Seals Kit



MODEL: 200 SERIES,
1, 2, 3, 3B, 4, 10, 250, 400,
410, 620, INT. 4000
11-1240
OEM ED020005
Fingertight One Piece
10-32 PEEK Male Nut/
Ferrule for 1/16" OD
Tubing, 10/pk



MODEL: SERIES 4, INT. 4000,
SERIES 200, 400, 410, MODEL
250 AND 620 PUMPS BUILT
AFTER DECEMBER 1989
CTS-11367
OEM N2600104
Piston, Low Pressure



MODEL: SERIES 4, INT. 4000,
SERIES 200, 400, 410, MODEL
250 AND 620 PUMPS BUILT
AFTER DECEMBER 1989
CTS-11366
OEM N2600124
Piston, High Pressure



MODEL: 200 SERIES,
1, 2, 3, 3B, 4, 10, 250, 400,
410, 620, INT. 4000
CTS-00230-02
OEM 09902128
O-Ring, PTFE



MODEL: 200 SERIES,
1, 2, 3, 3B, 4, 10, 250, 400,
410, 620, INT. 4000
CTS-10759
OEM 02542076
Piston Seal Backup Ring

PERKINELMER/ABI

AUTOSAMPLER



MODEL: 200 SERIES
CTS-A168
OEM 09923270
250µL Syringe



MODEL: 200 SERIES
CTS-A019
OEM 09904802
Rotor Seal



MODEL: 200 SERIES
CTS-A11329
OEM 7725-026
Stator Face Assembly



MODEL: 200 SERIES
CTS-10724
OEM N2930023
Injector Needle

DETECTOR LAMPS



MODEL: 200 SERIES, 785A
CTS-00025
OEM N2920149
Deuterium Lamp (1000 hr)



MODEL: BIO 19, LAMBDA
2, 5, 7, 9, 10, 11, 12, 14, 15, 16,
17, 18, 19, 20, 25, 35, 40, 45,
800, 900
CTS-10854
OEM L6022728, Old# B0160917
Deuterium Lamp (1500 hr)



MODEL: LC-480 PDA,
LAMBDA BIO, LAMBDA 2,
10, 11, 12, 14, 15, 16, 17, 18, 19,
20, 25, 35, 40, 45, 550, 551,
552, 552A, 553, 559, 559A,
800, 900
11-3343
OEM B0114620
Tungsten Lamp

PUMP PARTS



MODEL: LC-6AD, LC-7A,
LC-10AS, LC-20AR
CTS-10319
OEM 228-17019-93
Sapphire Plunger



MODEL: LC-9A,
LC-10AD, LC-600
CTS-10320
OEM 228-18523-91
Sapphire Plunger



MODEL: LC-10ADvp,
LC-20AD/AB, LC-20ADXR,
LC-30ADSF, LC-2010
CTS-11297
OEM 228-35601-93,
Old# 228-34498-91,
228-35601-92
Sapphire Plunger



MODEL: LC-10ADvp,
LC-20AD/AB, LC-20ADXR,
LC-30ADSF, LC-2010
11-3795
OEM 228-35281-95
Sapphire Plunger
w/Holder



MODEL: LC-10ADvp
11-4121
OEM 228-35281-91
Ceramic Plunger Holder
Assembly, LC-10ADvp



MODEL: LC-10ADvp,
LC-20AD/AB, LC-20ADvp
CTS-A138
OEM 228-35601-91,
Old# 228-34498-92
Ceramic Plunger
Assembly



MODEL: LC-10ADvp,
LC-20AB, LC-20AD,
LC-20ADXR, LC-30AD,
LC-2010
11-3897
OEM 228-35602-91
Plunger Holder



MODEL: LC-10ATvp
CTS-10584
OEM 228-35009-92
Ceramic Plunger
Assembly



MODEL: LC-20Ai, LC-20AT
CTS-11425
OEM 228-35009-93
Sapphire Plunger



MODEL: LC-30AD
11-4073
OEM 228-52069-94
LC-30AD Plunger Holder
Assembly, UHP2
(w/Diaphragm)



MODEL: LC-10AD,
LC-10ADvp, LC-20AD/AB,
LC-20ADXR, LC-30ADSF,
LC-2010, LC-2010 HT
11-2891
OEM 228-32784-91
Old# 228-24311-01,
228-31828-00
PTFE Diaphragm, 2/pk



MODEL: i-Series, LC-30AD
11-4122
OEM 228-55272-41
PTFE Diaphragm, LC30AD/i-
Series, 2/pk

PUMP PARTS



MODEL: LC-30AD
11-4126
OEM 228-52711-93,
Old# 228-52711-92
Plunger Seal and Back Up
Ring



MODEL: LC-30AD
11-4150
OEM 228-53301-41
Tubing D-R Assembly



MODEL: LC-30AD
11-4152
OEM 228-53300-41
Tubing D-L Assembly



MODEL: LC-9A, LC-10AD,
LC-10ADvp, LC-20AD/AB,
LC-600, LC-2010 A/C HT
CTS-10693
OEM 228-35146-00
Old# 228-18745-00
Plunger Seal



MODEL: LC-10ADvp,
LC-20AD/AB
CTS-10963
OEM 228-32628-00
Gold Plunger Seal
each \$39.33



MODEL: LC-20ADXR,
LC-30ADSF, Nexera-i
11-4133
OEM 228-32628-91
Gold Plunger Seal



MODEL: LC-6A, LC-6AD
CTS-0422
OEM 228-11999-00
Plunger Seal



MODEL: LC-7A,
LC-10Ai, LC-10AS,
LC-10AT, LC-10ATvp,
LC-20AR
CTS-10340
OEM 228-21975-00
Plunger Seal



MODEL: LC-10ATvp, LC-20AT,
LC-2010 A/C HT, LC-HT,
SIL-HTa, SIL-HTc, SIL-10ADvp,
SIL-20A/AC, SIL-20ACHT,
SIL-20ACXR, SIL-30AC,
SIL-30ACMP, SIL-2010 A/C HT
CTS-10694
OEM 228-35145-00
Plunger Seal



MODEL: LC-10Ai, LC-10AS,
LC-10AT, LC-10ATvp
CTS-10583
OEM 228-28499-00
Plunger Rinse Seal



MODEL: LC-20AD, LC-20AT,
SIL-AC
CTS-21015
OEM 228-16000-17
Old# 228-16000-10,
228-16000-84
Ferrule, 1/16", SS, 3/pk

PUMP PARTS



MODEL: LC-6A, LC-6AD,
LC-10AS, LC-20AR
CTS-A100
OEM 228-09054-93
Outlet Check Valve



MODEL: LC-6A, LC-10AS
CTS-10595 **KIT**
OEM 228-11200-91
Check Valve Rebuild Kit
(for 2 Valves)

- Ruby Balls
- Seats
- Thin Washers
- Thick Washers
- Retainer Washers

2
2
2
2
2



MODEL: LC-9A,
LC-10AD, LC-600
CTS-A102
OEM 228-33492-91
Old# 228-18522-91
Inlet Check Valve



MODEL: LC-9A, LC-10AD,
LC-10AT, LC-600
CTS-A103
OEM 228-32531-92
Old# 228-18522-92
Outlet Check Valve



MODEL: LC-30AD
11-4060
OEM 228-52964-95
Old# 228-52964-91,
228-52964-93
Inlet Check Valve



MODEL: LC-10ADvp, LC-10AT,
LC-10ATvp, LC-20AD/
AB, LC-20ADXR, LC-20AT,
LC-20AR, LC-30AD
CTS-A11316
OEM 228-45707-91
Suction Filter,
Stainless Improved



MODEL: LC-10AT,
LC-10ATvp
CTS-A117
OEM 228-32166-91
Inlet Check Valve



MODEL: LC-10ADvp
CTS-A145
OEM 228-39093-92
Inlet Check Valve

PUMP PARTS



MODEL: LC-10ADvp,
LC-10ATvp
CTS-A121
OEM 228-34976-91
Outlet Check Valve



MODEL: LC-20AD/AB XR,
LC-20AT, LC-30ADSF
CTS-A11186
OEM 228-48249-91
Old# 228-45704-91,
228-45557-91
Inlet Check Valve



MODEL: i-SERIES,
LC-10ADvp, LC-10ATvp,
LC-20AD/AB XR,
LC-30ADSF
CTS-A11187
OEM 228-45705-91
Old# 228-45563-95
Outlet Check Valve



MODEL: LC-20AT
11-3807
OEM 228-45704-92
Inlet Check Valve, Primary



MODEL: LC-30AD,
LC-30ADSF
11-4063
OEM 228-53334-96
Outlet Check Valve



MODEL: i-SERIES,
LC-10ADvp,
LC-10AT, LC-10ATvp,
LC-20AD/AB, LC-20ADXR,
LC-20AR, LC-20AT,
LC-30ADSF, LC-2010
CTS-A11421
OEM 228-35871-96
Line Filter Assembly



MODEL: LC-30AD
11-4129
OEM 228-35871-99
SS Line Filter



MODEL: LC-10AD,
LC-10ADvp, LC-10ATvp,
LC-20AD/AB, LC-20Ai,
LC-20AT, LCMS-2020,
LCMS-8030, LCMS-8040,
LCMS-8045, LCMS-8050
CTS-11305
OEM 228-48607-91
Old# 228-32744-00
PEEK 5µm Filter

AUTOSAMPLER



MODEL: SIL-10A,
SIL-10Ai, SIL-10AXL
CTS-10578
OEM 228-25237-04
Syringe, 500µL



MODEL: LC-2010,
SIL-10ADvp, SIL-10AXL
CTS-10686
OEM 228-33355-04
Needle Seal, Vespel



MODEL: SIL-10ADvp,
SIL-10AXL/vp, SIL-HT,
SIL-HTa, SIL-HTc
CTS-11435
OEM 228-33355-01
Seal, Needle PEEK



MODEL: SIL-20 A/C,
SIL-20ACHT, SIL-HT,
SIL-HTa, SIL-HTc
CTS-11312
OEM 228-41310-92
PEEK Rotor, HPV



MODEL: LC-2010,
LC-2010 HT, SIL-20 A/C,
SIL-20ACHT, SIL-20ACXR,
SIL-HT, SIL-20HTa,
SIL-20HTc
CTS-11313
OEM 228-36923-00
PEEK Rotor, LPV



MODEL: SIL-20 A/C,
SIL-20ACHT
CTS-11315
OEM 228-42325-01
Needle Seal,
PEEK SIL-20



MODEL: SIL-30AC,
SIL-30ACMP
11-4048
OEM 228-53178-91
PEEK Needle Seal,
SIL-30AC, SIL-30ACMP

AUTOSAMPLER



MODEL: SIL-10ADvp
CTS-10942
OEM 228-21217-97
Rotor Seal



MODEL: SIL-10A,
SIL-10Ai, SIL-10AXL
CTS-A106
OEM 228-21217-91
Rotor Seal



MODEL: SIL-10A,
SIL-10Ai, SIL-10AXL
CTS-A067
OEM 228-21220-91
Stator Assembly



MODEL: LC-2010 A/C HT,
LC-HT, SIL-10ADvp,
SIL-20A/AC, SIL-30AC,
SIL-30ACMP
CTS-11434
OEM 228-35010-91
Sapphire Plunger



MODEL: LC-10ATvp, LC-20AT,
LC-2010 A/C HT, LC-HT,
SIL-HTa, SIL-HTc, SIL-10ADvp,
SIL-20A/AC, SIL-20ACHT,
SIL-20ACXR, SIL-30AC,
SIL-30ACMP, SIL-2010 A/C HT
CTS-10694
OEM 228-35145-00
Plunger Seal



MODEL: LC-20AD, LC-20AT,
SIL-AC
CTS-21015
OEM 228-16000-17
Old# 228-16000-10,
228-16000-84
Ferrule, 1/16", SS, 3/pk

DETECTOR LAMPS



MODEL: SPD-10A,
SPD-10AV, SPD-10AVvp ,
SPD-20AV
CTS-00135
OEM 228-34016-02
Deuterium Lamp (2000 hr)

THERMO ELECTRON/ SPECTRA-PHYSICS

PUMP PARTS



MODEL: 8800, 8810, P1000,
P2000, P4000, ISOCHROM
CTS-3102
OEM A3102-010
Sapphire Plunger



MODEL: P1000,
P2000, P4000
CTS-10396
OEM A4848-010
Washer



MODEL: 8800, 8810, P1000,
P2000, P4000, ISOCHROM
CTS-2962
OEM A2962-010
Plunger Seal, Gold



MODEL: CONSTAMETRIC
I, II, III, CM3000, CM3200,
CM3500, CM4000, CM4100
CTS-7000
OEM 801306
Sapphire Plunger



MODEL: 8800, 8810, P1000,
P2000, P4000, ISOCHROM
CTS-2963
OEM A2963-010
Backup Seal



MODEL: CONSTAMETRIC
I, II, III, CM3000, CM3200,
CM3500, CM4000, CM4100
CTS-2061
OEM 206156001
Plunger Seal, Gold



MODEL: 8800, 8810, P1000,
P2000, P4000, ISOCHROM
CTS-3495
OEM A3495-010
Inlet Check Valve



MODEL: CONSTAMETRIC
I, II, III, CM3000, CM3200,
CM3500, CM4000, CM4100
CTS-20612
OEM 206129001
Plunger Seal, Black



MODEL: P1000,
P2000, P4000
CTS-3990
OEM A3990-010
Transducer Check
Valve Assembly



MODEL: 8700, 8800,
8810, ISOCHROM
CTS-3490
OEM A3490-010
Outlet Check Valve

THERMO ELECTRON/ SPECTRA-PHYSICS

AUTOSAMPLER



MODEL: 8800 SERIES
CTS-10517
OEM 3301-0100
Syringe, 500µL



MODEL: AS100, AS300,
AS1000, AS3000, AS3500,
8875, 8880
CTS-A096
OEM A3588-020
Syringe Assembly,
250µL



MODEL: AS100, AS300,
AS1000, AS3000, AS3500,
8875, 8880, 8800 SERIES
CTS-A083
OEM 2508-0360
Rotor Seal, Vespel



MODEL: AS100, AS300,
AS1000, AS3000, AS3500,
8875, 8880, 8800 SERIES
CTS-10612
OEM 7010-015
Isolation Seal,
Rheodyne 7010

DETECTOR LAMPS



MODEL: 200, 201, 203, 204, 205,
206, 206PH, CE100, CE500,
CE1000, CE2000, SP100, SP200,
SPECTRACHROM 200, UV100,
UV150, UV200, UV1000,
UV2000, UV3000
CTS-00246
OEM 9551-0023
Deuterium Lamp (1000 hr)



MODEL: UV6000
CTS-A123
OEM 108052
Lamp Assembly, TSP
UV6000 Detector (1000 hr)

SURVEYOR PLUS SYSTEMS



MODEL: SURVEYOR PLUS
11-1596
OEM 00950-01-00087
Piston Assembly, Sapphire



MODEL: SURVEYOR PLUS
11-1597
OEM 00950-30020
Piston Assembly, TZP



MODEL: SURVEYOR PLUS
11-1598
OEM 00950-30026
Check Valve Assembly,
Inlet



MODEL: SURVEYOR PLUS
11-1599
OEM 00950-30021
Check Valve Assembly,
Outlet



MODEL: SURVEYOR PLUS
11-1600
OEM 00950-01-00085
Check Valve, Secondary
Inlet



MODEL: SURVEYOR PLUS
11-3943
OEM 00950-01-00086
Check Valve, Primary Inlet

THERMO ELECTRON/
SPECTRA-PHYSICS

SURVEYOR PLUS SYSTEMS



MODEL: SURVEYOR PLUS
11-1601
OEM 00107-18008
Seal, GFP, High Pressure,
Piston



MODEL: SURVEYOR PLUS
11-1603
OEM 00950-30025
Seal, Wash



MODEL: SURVEYOR PLUS
11-1602
OEM 00950-30004
Seal, Polyethylene, High
Pressure, Piston



MODEL: SURVEYOR PLUS
11-1604
OEM 00950-30009
Line Filter Frit

WATERS

PUMP PARTS

MODEL: M6KA, M45, 501, 510, 515, 590, 600,
610, 1515, 1525, LC MODULE 1, PREP LC-4000



MODEL: 510, 515, 525, 600,
610, 1515, 1525
CTS-21010
OEM 700001108
Cartridge Check Valve
Housing, 2/pk



MODEL: M6KA, 510, 515,
600, 610, LC MODULE 1
CTS-0106
OEM WAT025203
Inlet Check Valve Housing



MODEL: 510, 515, 600, 610,
1515, 1525, 2690, 2690D,
2695, 2695D, 2795,
LC MODULE 1
CTS-10600
OEM 700000254 (2 of 289000144)
Check Valve Cartridge, 2/pk



MODEL: M6KA, 510, 515,
600, 610, LC MODULE 1
CTS-0110 **KIT**
OEM WAT060495
Inlet Check Valve Rebuild Kit
rebuilds 2 valves
• Blue Washer (CTS-0101) 2
• Gasket, Retainer (CTS-0102) 2
• Insert, PCTFE (CTS-0103) 2
• Check Ball & Seat 0125" (CTS-0104) 2
• Washer, PTFE (CTS-0105) 2



MODEL: 510, 515, 525,
600, 610, 1515, 1525, 2690,
2690D, 2695, 2695D, 2795
CTS-21011 **KIT**
OEM 700000253
Cartridge Check Valve
System Kit
• Cartridge Check Valve Housing, 2/pk (CTS-21010) 1
• Check Valve Cartridge, 2/pk (CTS-10600) 1



MODEL: M6KA, 510, 590,
600
CTS-0200
OEM WAT025028
Outlet Check Valve
Assembly – Actuator Style



MODEL: 510, 515, 600, 610,
1515, 1525, 2690, 2690D,
2695, 2695D, 2795
11-2401
OEM 700002399
Check Valve Cartridge,
Ceramic Ball & Seat, 2/pk



MODEL: M6KA, 510
CTS-0201
OEM WAT025212
Outlet Housing –
Actuator Style



MODEL: M6KA, 510, 515,
600, 610, LC MODULE 1
CTS-0100
OEM WAT033679
Inlet Check Valve
Assembly



MODEL: M6KA, 510
CTS-0210
OEM WAT026016
Outlet Check Valve
Rebuild Kit – Actuator Style
rebuilds 2 valves

PUMP PARTS

MODEL: M6KA, M45, 501, 510, 515, 590, 600, 610, 1515, 1525, LC MODULE 1, PREP LC-4000



MODEL: 510, 515, 600, 610, 1525EF, LC MODULE 1
CTS-0300
OEM WAT025216
Outlet Check Valve Assembly – Ball & Seat



MODEL: 510, 515, 600, 610, 1525EF, LC MODULE 1
CTS-0301
OEM WAT025207
Outlet Check Valve Housing – Ball & Seat



MODEL: 510, 515, 600, 610, 1525EF, LC MODULE 1
CTS-0310 KIT
OEM WAT026014
Outlet Check Valve Rebuild Kit – Ball & Seat rebuilds 2 valves



MODEL: M6KA, 510, 515, 600, 610, 1515, 1525, LC MODULE 1
CTS-2294
OEM WAT022934
Plunger Seal



MODEL: M6KA, 510, 515, 590, 600, 610, 1515, 1525
CTS-2294-04
OEM WAT022946
Plunger Seals



MODEL: 510, 515, 600, 610, 1515, 1525, LC MODULE 1
CTS-6613
OEM WAT026613
Plunger Seal, Black



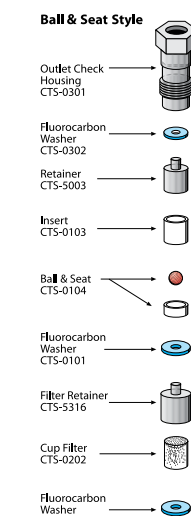
MODEL: 510, 515, 600, 610, 1515, 1525, LC MODULE 1
CTS-10548
Gold Plunger Seal, Analytical Heads



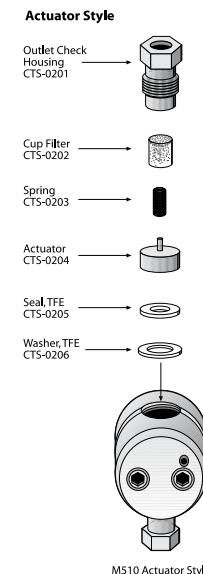
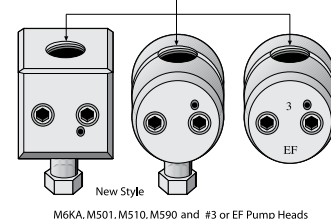
MODEL: M6KA, 510, 590, 600, 610, LC MODULE 1
CTS-1042
OEM WAT011042
Plunger Insertion Tool



MODEL: M6KA, 510, 515, 590, 600, 626, 1515, 1515 MICRO, 1525, 1525EF, LC MODULE 1
CTS-5669
OEM WAT005081, Old# WAT025669
Oil Seal



OUTLET CHECK VALVES



PUMP PARTS

MODEL: M6KA, M45, 501, 510, 515, 590, 600, 610, 1515, 1525, LC MODULE 1, PREP LC-4000



MODEL: 515, 1515, 1525
CTS-10475
Sapphire Plunger Kit



MODEL: 515, 1515, 1525
CTS-10475-1
OEM WAS207069, Old# WAT20769
Sapphire Plunger



MODEL: M6KA, 510, 590, 600
CTS-5464
OEM WAT025464
Clip Ring, Plunger Retainer



MODEL: 510, 515, 600, 610, LC MODULE 1
CTS-0069
OEM WAT060069
Tubing, Head to Tee



MODEL: M6KA, 510, 515, 590, 600
CTS-0037
OEM WAT060037
Tube, Left Inlet Pigtail



MODEL: M6KA, 510, 515, 590, 600
CTS-0038
OEM WAT060038
Tube, Right Inlet Pigtail



MODEL: 710, 712, 715, 717, 2690, 2690D, 2695, 2695D, 2790, 2795
CTS-5313
OEM WAT025313
Compression Screw, 1/16" SS



MODEL: 710, 712, 715, 717, 2690, 2690D, 2695, 2695D, 2790, 2795
CTS-12016
OEM WAT005070
Compression Screw, 1/16" SS, 10/pk



MODEL: 2690, 2690D, 2695, 2695D
CTS-2330
OEM WAT022330
Ferrule, SS



MODEL: 710, 712, 715, 717, 2690, 2690D, 2695, 2695D, 2790, 2795
CTS-21012 KIT
OEM WAT025604
Compression Screws & Ferrules, 5/pk

- Ferrule, SS (CTS-2330) 5
- Compression Screw, 1/16", SS (CTS-5313) 5



MODEL: 432, 2690, 2690D, 2695, 2695D, nanoACQUITY HDX MGR
CTS-9733
OEM WAT097332
SS Union, Zero Dead Volume



MODEL: 510, 515, 600, 610, 1515, 1525, 1525EF, 1525 MICRO, LC MODULE 1
CTS-6958
OEM WAT069583
Indicator Rod Kit

PUMP PARTS

MODEL: M6KA, M45, 501, 510, 515, 590, 600, 610, 1515, 1525, LC MODULE 1, PREP LC-4000



11-2610
Tubing Stainless Steel
1/16" OD x 0.50mm (0.020")
ID x 10ft



11-2611
Tubing Stainless Steel
1/16" OD x 1mm (0.040")
ID x 10ft



11-2612
Tubing Stainless Steel
1/16" OD x 250µm (0.010")
ID x 10ft



CTS-6809
OEM WAT026809
Mobile Phase Transfer
Line, TFE, 3/ 16" OD x
1/8" OD x 25'



MODEL: M6KA, 510, 515,
590, 600, 610, 1515, 1525,
1525 MICRO, LC MODULE 1
CTS-5559
OEM WAT025559
Priming Syringe Needle



MODEL: M6KA, 510,
515, 590, 600, 610
CTS-5740
OEM WAT060476
Draw-Off
Tube Assembly



MODEL: 500, 515, 600,
1515, 1525, 1525EF,
1525 MICRO
CTS-5746
OEM WAT025746
Reference Valve
Rebuild Kit

- Button, Reference Valve 1
- Spacer, Valve Disk 1
- Diaphragm, Reference Valve 1



MODEL: 510
CTS-0012
OEM WAT060012
Insert Seal Parts Kit

- Manifold Insert (CTS-0015) 1
- Insert Seal, PTFE (CTS-0016) 1
- Belleville Washer (CTS-9503) 2
- Flat Washer (CTS-9854) 1



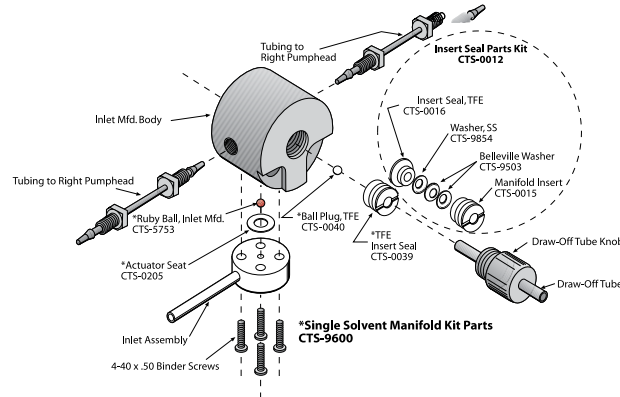
MODEL: 510
CTS-1106
OEM WAT010106
Inlet Tube Assembly
w/Ball & Seat



MODEL: M45, 501, 510, 515,
590, 600, 610, LC MODULE 1
CTS-9600
OEM WAT060448
Inlet Manifold Kit

- Insert Seal Parts Kit, (CTS-0012) 1
- Ball, Plug, TFE (CTS-0040) 1
- Inlet Tube Assembly w/Ball & Seat (CTS-1106) 1

SINGLE SOLVENT MANIFOLD



PUMP PARTS

MODEL: M6KA, M45, 501, 510, 515, 590, 600, 610, 1515, 1525, LC MODULE 1, PREP LC-4000



MODEL: 510
CTS-11009
OEM WAT052670
510 Performance
Maintenance Kit

- Actuator Outlet Rebuild Kit (CTS-0210) 1
- PP Check Valve Cartridge, 2/pk (CTS-10600) 1
- Plunger Seal (CTS-2294) 2
- Solvent Reservoir Filter, 10µm (CTS-5531) 1
- Sapphire Plunger (CTS-5656) 2
- Reference Valve Rebuild Kit (CTS-5746) 1
- Inlet Manifold Kit (CTS -9600) 1



MODEL: 515
CTS-11010
OEM WAT052587
515 Performance
Maintenance Kit

- Solvent Reservoir Filter, 10µm (CTS-5531) 1
- PP Check Valve Cartridge, 2/pk (CTS-10600) 2
- Sapphire Plunger Kit (CTS-10475) 2
- Plunger Seal (CTS-2294) 2
- Sparge Diffuser (CTS-10984) 1



MODEL: 1515
CTS-11294
OEM 201000113
1515 Performance
Maintenance Kit

- Sapphire Plunger (CTS-10475-1) 2
- PP Check Valve Cartridge, 2/pk (CTS-10600) 2
- Plunger Seal (CTS-2294) 2
- Solvent Reservoir Filter, 10µm (CTS-5531) 1
- Reference Valve Rebuild Kit (CTS-5746) 1



MODEL: 1525
CTS-11282
OEM 201000114
1525 Performance
Maintenance Kit

- Sapphire Plunger (CTS-10475-1) 4
- PP Check Valve Cartridge, 2/pk (CTS-10600) 4
- Plunger Seal (CTS-2294) 4
- Solvent Reservoir Filter, 10µm (CTS-5531) 2
- Reference Valve Rebuild Kit (CTS-5746) 1



MODEL: 600, 610
CTS-10985
OEM WAT052675
600/610 Performance
Maintenance Kit

- Solvent Reservoir Filter, 10µm (CTS-5531) 4
- PP Check Valve Cartridge, 2/pk (CTS-10600) 2
- Sapphire Plunger (CTS-5656) 2
- Plunger Seal (CTS-2294) 2
- Sparge Diffuser (CTS-10984) 4
- Reference Valve Rebuild Kit (CTS-5746) 1
- Inlet Manifold Kit (CTS-9600) 1

PUMP PARTS

MODEL: 616, 625, 626, 1515 MICRO



MODEL: 616
CTS-A057
 OEM WAT024960
 Check Valve Cartridge



MODEL: 625, 626
CTS-A058
 OEM WAT024120
 Check Valve Cartridge, PEE K



MODEL: 616, 625, 626
CTS-11032 **KIT**
 OEM WAT031790
 Plunger and Wash Seal, Rebuild Kit



MODEL: 616, 625, 626, 1525 MICRO
CTS-11296
 OEM WAT088726
 Seal Insertion/Extraction Tool



MODEL: 616, 625, 626, 1525 MICRO
CTS-10323
 OEM WAT031788, Old# WAT030547
 Sapphire Plunger
 Note: Does not include compression spring, plunger spring, and indicator rod.



MODEL: 616, 1525 MICRO
CTS-10906 **KIT**
 OEM WAT034515
 Seal Kit
 • Plunger Seals 2
 • Plunger Wash Seals 2
 • O-Rings 2
 • Backup Rings 2



MODEL: 616
CTS-10986 **KIT**
 OEM WAT052672
 616 Performance Maintenance Kit
 • Sapphire Plunger (CTS-10323) 2
 • Sparge Diffuser (CTS-10984) 4
 • Solvent Reservoir Filter, 10µm (CTS-5531) 4
 • Pump Seal Kit (CTS-10906) 1
 • Check Valve Cartridge (CTS-A057) 4

Note: Does not include compression spring, plunger spring, and indicator rod.



MODEL: 626
CTS-11026 **KIT**
 OEM WAT052673
 626 Performance Maintenance Kit
 • Sapphire Plunger (CTS-10323) 2
 • Sparge Diffuser (CTS-10984) 4
 • Solvent Reservoir Filter, 10µm (CTS-5531) 4
 • Pump Seal Kit (CTS-11032) 1
 • Check Valve Cartridge (CTS-A058) 4

Note: Does not include compression spring, plunger spring, and indicator rod.



MODEL: 600, 610, 510, 515, 1515, 1525, 1525EF, 1525 MICRO, 2535, 2545, 2555, 2690, 2690D, 2695, 2695D, 2700, ACQUITY UPLC BSM, LC MODULE 1
CTS-5531
 OEM WAT025531
 Solvent Reservoir Filter, 10µm

PUMP PARTS

MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796, ALLIANCE



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796
CTS-10566
 OEM WAT270938, (2 of WAT270789)
 Head Plunger Seal Kit, Alliance, 2/pk



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796
CTS-10711
 OEM WAT271066
 Head Plunger Seal Kit, Black, Alliance, 2/pk



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796
CTS-10560
 OEM WAT271018, (2 of WAT270160)
 Seal Wash Plunger Seal, Alliance, 2/pk



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796
CTS-10989
 OEM WAT270939, (4 of WAT270163)
 Face Seals, 4/pk



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796
CTS-10597
 OEM WAT270940, (4 of WAT270668)
 Wash Tube Seal Kit, 4/pk



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796
CTS-10532
 OEM WAT271017
 Seal Wash Face Seal



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796, 515, 600, 610, 626, LC MODULE 1
CTS-10984
 OEM WAT007272
 Sparge Diffuser



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796
CTS-10476
 OEM WAT270959, WAT271067, Old# WAT270488
 Sapphire Plunger, Alliance



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796, 717, 600, LC MODULE 1
CTS-10919
 OEM WAT088084
 2µm Precolumn Filter Insert



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796, 717, 717 PLUS, LC MODULE 1
CTS-10919-5
 OEM WAT005139
 2µm Precolumn Filter Insert, 5/pk

PUMP PARTS

MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796, ALLIANCE



MODEL: 2690, 2690D,
2695, 2695D, 2795, 510,
515, 600, 610, 1515, 1525,
LC MODULE 1
CTS-10600
OEM 700000254 (2 of 289000144)
Check Valve
Cartridge, 2/pk



MODEL: 2690, 2690D, 2695,
2695D, 2700, 2535, 2545,
2555, 510, 515, 600, 610,
1515, 1525, 1525EF, 1525
MICRO,
ACQUITY UPLC BSM,
LC MODULE 1
CTS-5531
OEM WAT025531
Solvent Reservoir Filter,
10µm



MODEL: 510, 515, 525,
600, 610, 1515, 1525, 2690,
2690D, 2695, 2695D, 2795
CTS-21011 KIT
OEM 700000253
Cartridge Check Valve
System Kit

- Cartridge Check Valve Housing, 2/pk (CTS-21010) 1
- Check Valve Cartridge, 2/pk (CTS-10600) 1



MODEL: 2690, 2690D,
2695, 2695D, 2790, 2795,
2796, 600, 712, 717,
LC MODULE 1
CTS-10527
OEM WAT035190,
Old# WAT084561
Precolumn Filter Assembly



MODEL: 2690, 2690D,
2695, 2695D, 2795 510,
515, 600, 610, 1515, 1525
11-2401
OEM 700002399
Check Valve Cartridge,
Ceramic Ball & Seat, 2/pk



MODEL: 2690, 2690D,
2695, 2695D, 2790, 2795,
2796
CTS-A094
OEM WAT270941
Check Valve Cartridge,
2/pk



MODEL: 2690, 2690D, 2695,
2695D, 2790, 2795, 2796
CTS-A11431-02
OEM 700002332
Cartridge Check Valve
Housing, 2/pk

PUMP PARTS

MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 2796, ALLIANCE



MODEL: 2690, 2690D,
2695, 2695D, 2790, 2795,
710, 712, 715, 717
CTS-5313
OEM WAT025313
Compression Screw, 1/16",
SS



11-2610
Tubing Stainless Steel
1/16" OD x 0.50mm
(0.020") ID x 10ft



MODEL: 710, 712, 715,
717, 2690, 2690D, 2695,
2695D, 2790, 2795
CTS-12016
OEM WAT005070
Compression Screw, 1/16"
SS, 10/pk



11-2611
Tubing Stainless
Steel 1/16" OD x 1mm
(0.040") ID x 10ft



MODEL: 2690, 2690D,
2695, 2695D
CTS-2330
OEM WAT022330
Ferrule, SS



11-2612
Tubing Stainless Steel
1/16" OD x 250µm
(0.010") x 10ft



MODEL: 710, 712, 715, 717,
2690, 2690D, 2695, 2695D,
2790, 2795
CTS-21012 KIT
OEM WAT025604
Compression Screws &
Ferrules, 5/pk

- Ferrule, SS (CTS-2330) 5
- Compression Screw, 1/16", SS (CTS-5313) 5



CTS-6809
OEM WAT026809
Mobile Phase Transfer
Line, TFE, 3/16" OD x
1/8" OD x 25'



MODEL: 432, 2690,
2690D, 2695, 2695D,
nanoACQUITY HDX MGR
CTS-9733
OEM WAT097332
SS Union,
Zero Dead Volume



MODEL: 2690, 2690D,
2695, 2695D, 2790, 2487,
484, 486, 717
CTS-10945
OEM WAT080443
Battery

PUMP PARTS & AUTOSAMPLER

MODEL: 717, 2690, 2690D, 2695, 2695D, 2790, 2795, 2796, ALLIANCE



MODEL: 2690, 2690D,
2695, 2695D
CTS-11380 **KIT**
2690/2695 Performance
Maintenance Kit
w/Seal Pack

- Sapphire Plunger (CTS-10476) 2
- Seal Wash Plunger Seal Kit, 2/pk (CTS-10560) 1
- Head Plunger Seal Kit, 2/pk (CTS-10566) 1
- Wash Tube Seal Kit, 4/pk (CTS-10597) 1
- Seal Pack Assembly Kit (CTS-11222) 1
- 2µm Precolumn Filter Insert (CTS-10919) 1
- Battery (CTS-10945) 1
- Spurge Diffuser (CTS-10984) 1
- Face Seal Pack, 4/pk (CTS-10989) 1
- 250µL Syringe (CTS-3109) 1
- Solvent Reservoir Filter, 10µm (CTS-5531) 4
- PP Check Valve Cartridge, 2/pk (CTS-10600) 1



MODEL: 717, 717 PLUS, 715,
2690, 2690D, 2695, 2695D,
2790, 2795, LC MODULE 1
CTS-3195
OEM WAT073195
250µL Syringe Tip



MODEL: 717, 717 PLUS, 715,
2690, 2690D, 2695, 2695D,
2790, 2795, LC MODULE 1
CTS-3209
OEM WAT077347
Syringe Seal,
250µL/2500µL



MODEL: 717, 715,
2690, 2690D
CTS-10285
OEM WAT045407, WAT078800
TFE 3-Way Valve 4 (V4)



MODEL: 717
CTS-A087
OEM WAT025893
Valve 3 Solenoid Assembly



MODEL: 2690, 2609D,
2695, 2695D
CTS-10770
OEM 700001229
Waste Valve, V3
(2-Way Solenoid Valve)



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795

CTS-11080 **KIT**
OEM 700004073

Alliance Solvent Manager Performance Maintenance
Kit

- Sapphire Plunger (CTS-10476) 2
- Seal Wash Plunger Seal Kit, 2/pk (CTS-10560) 1
- Head Plunger Seal Kit, 2/pk (CTS-10566) 1
- Wash Tube Seal Kit, 4/pk (CTS-10597) 1
- 2µm Precolumn Filter Insert (CTS-10919) 1
- Face Seal, 4/pk (CTS-10989) 1
- PP Check Valve Cartridge, 2/pk (CTS-10600) 1
- Seal Wash Face Seal (CTS-10532) 2

PUMP PARTS & AUTOSAMPLER

MODEL: 717, 2690, 2690D, 2695, 2695D, 2790, 2795, 2796, ALLIANCE



MODEL: 717, 717 PLUS, 715,
2690, 2690D, 2695, 2695D,
2790, 2795, LC MODULE 1
CTS-3109
OEM WAT073109
250µL Syringe



MODEL: 717, 715, 2690,
2690D, 2695, 2695D
CTS-2324
OEM WAT072324
Needle Wash Frit



MODEL: 2690, 2690D, 2695, 2695D

CTS-10988 **KIT**
OEM WAT270944

2690/2695 Performance Maintenance Kit

- Sapphire Plunger (CTS-10476) 2
- Seal Wash Plunger Seal Kit, 2/pk (CTS-10560) 1
- Head Plunger Seal Kit, 2/pk (CTS-10566) 1
- Wash Tube Seal Kit, 4/pk (CTS-10597) 1
- Battery (CTS-10945) 1
- Spurge Diffuser (CTS-10984) 1
- Face Seal, 4/pk (CTS-10989) 1
- Solvent Reservoir Filter, 10µm (CTS-5531) 4
- 250µL Syringe (CTS-3109) 1
- 2µm Precolumn Filter Insert (CTS-10919) 1
- Seal Wash Face Seal (CTS-10532) 2
- PP Check Valve Cartridge, 2/pk (CTS-10600) 1
- Seal Pack Rebuild Kit: (CTS-10839) 1
- Wash Tube Seal (CTS-10598) 1
- Tube, Seal Wash (CTS-10739) 1
- PTFE Washer (CTS-10741-01) 1
- Filter Retainer (CTS-10785) 1
- Lower Wash Seal Frit (CTS-10788) 1
- Needle Wash Frit (CTS-2324) 1
- TFE Washer (CTS-7321) 1
- Needle Assembly (CTS-7550) 1
- Gold Injector Seal (CTS-A047) 2
- Ferrule, SS (CTS-2330) 1
- Compression Screw, 1/16", SS (CTS-5313) 1



MODEL: 2690, 2690D, 2695, 2695D

CTS-11030 **KIT**

2690/2695 Performance Maintenance Kit
(w/Assembled Seal Pack)

- Sapphire Plunger (CTS-10476) 2
- Seal Wash Plunger Seal Kit, 2/pk (CTS-10560) 1
- Head Plunger Seal Kit, 2/pk (CTS-10566) 1
- Wash Tube Seal Kit, 4/pk (CTS-10597) 1
- Seal Pack Assembly w/Needle (CTS-11029) 1
- 2µm Precolumn Filter Insert (CTS-10919) 1
- Battery (CTS-10945) 1
- Spurge Diffuser (CTS-10984) 1
- Face Seal Pack, 4/pk (CTS-10989) 1
- 250µL Syringe (CTS-3109) 1
- Solvent Reservoir Filter, 10µm (CTS-5531) 4
- PP Check Valve Cartridge, 2/pk (CTS-10600) 1

AUTOSAMPLER

MODEL: 717, 2690, 2690D, 2695, 2695D, 2790, 2795, 2796, ALLIANCE



MODEL: 2690, 2690D,
2695, 2695D, 2795
CTS-10788-5
OEM 70001318, (5 of 415000230)
Needle Wash Frit, 5/pk



MODEL: 2690,
2690D, 2695, 2695D
CTS-11029 **KIT**
OEM WAT270942
Assembled Seal Pack



MODEL: 717, 717 PLUS, 715,
2690, 2690D, 2695, 2695D,
LC MODULE 1
CTS-10761 **KIT**
OEM WAT045424
HPMV 1 & 2 Rebuild Kit
w/Spool



MODEL: 2690, 2690D,
2695, 2695D
CTS-11222 **KIT**
OEM 700002791
Seal Pack Assembly Kit

- O-Ring, TFE (CTS-1010T) 1
- HPMV Gold Seals,
2/pk (CTS-10692) 1
- Spool Assembly (CTS-A155) 1
- Bullet, Seal Insertion (CTS-11281) 1



MODEL: 717, 715, 2690,
2690D, 2695, 2695D
CTS-10692
OEM WAT045454
HPMV Gold Seals, 2/pk



MODEL: 717, 715, 2690,
2690D, 2695, 2695D
CTS-1010T
OEM WAT097387
O-Ring, TFE



MODEL: 717, 717 PLUS,
710, 712, 715, 2690, 2690D,
2695, 2695D, LC MODULE 1
CTS-7550
OEM 700001247,
Old# WAT075507, WAT077233
Performance Autosampler
Needle



MODEL: 2690, 2690D, 2695, 2695D
CTS-10839 **KIT**
OEM WAT271019
Seal Pack Rebuild Kit

- | | | |
|-----------------------------------|----------------------------------|---|
| • Wash Tube Seal (CTS-10598) | 1• TFE Washer (CTS-7321) | 1 |
| • Tube, Seal Wash (CTS-10739) | 1• Needle Assembly (CTS-7550) | 1 |
| • PTFE Washer (CTS-10741-01) | 1• Gold Injector Seal (CTS-A047) | 2 |
| • Filter Retainer (CTS-10785) | 1• Ferrule, SS (CTS-2330) | 1 |
| • Lower Wash Seal Frit(CTS-10788) | 1• Compression Screw, 1/16" SS | 1 |
| • Needle Wash Frit (CTS-2324) | 1 (CTS-5313) | 1 |

AUTOSAMPLER

MODEL: 717, 2690, 2690D, 2695, 2695D, 2790, 2795, 2796, ALLIANCE



MODEL: 717, 717 PLUS
CTS-10987 **KIT**
OEM WAT052669
717 Performance Maintenance Kit

- Seal Pack Kit (CTS-10324S) 1
- 250µL Syringe (CTS-3109) 1
- Filter, Foam 45 Ppi, 2.3x11.5"
(CTS-11063-02) 1
- Filter, Foam 45 Ppi, 2x7"
(CTS-11063-03) 2



MODEL: 717,
LC MODULE 1
CTS-10324S
OEM WAT045559
Seal Pack w/Needle



MODEL: 717, 600, 2690,
2690D, 2695, 2695D, 2790,
2795, 2796, LC MODULE 1
CTS-10919
OEM WAT088084
2µm Precolumn
Filter Insert



MODEL: 717, 717 PLUS,
2690, 2690D, 2695, 2695D,
2790, 2795, 2796,
LC MODULE 1
CTS-10919-5
OEM WAT005139
2µm Precolumn
Filter Insert, 5/pk



MODEL: 717, 712, 600, 2690,
2690D, 2695, 2695D, 2790,
2795, 2796, LC MODULE 1
CTS-10527
OEM WAT035190,
Old# WAT084561
Precolumn Filter Assembly

PUMP PARTS

MODEL: ACQUITY, nano ACQUITY, H-CLASS, I-CLASS



MODEL: ACQUITY
H-CLASS QSM, ACQUITY
UPLC I2V BSM, ACQUITY
UPLC BSM, nanoACQUITY
UPLC BSM/ASM

CTS-11121-02
OEM 700002598
Wash Seal, 2/pk



MODEL: ACQUITY
H-CLASS QSM, ACQUITY
UPLC I2V BSM, ACQUITY
UPLC BSM, nanoACQUITY
UPLC BSM/ASM

CTS-11119-02
OEM 700002599
Head Plunger Seal, 2/pk



MODEL: ACQUITY
H-CLASS BIO QSM,
ACQUITY H-CLASS QSM,
ACQUITY I-CLASS BSM,
ACQUITY ISOCRATIC
SOLVENT MGR, ACQUITY
M-CLASS μ ASM, ACQUITY
M-CLASS μ BSM, ACQUITY
UPLC I2V BSM, ACQUITY
UPLC BSM, nanoACQUITY
UPLC BSM/ASM

CTS-11093-02
OEM 700002600
Plunger, 2/pk

PUMP PARTS

MODEL: ACQUITY, nano ACQUITY, H-CLASS, I-CLASS



MODEL: ACQUITY I-CLASS
BSM, ACQUITY I-CLASS
SM-FTN, ACQUITY UPLC
I2V BSM, ACQUITY UPLC
BSM

CTS-5531-07
OEM 700003616
Solvent Bottle Filter, 7/pk



MODEL: ACQUITY UPLC
HIGH TEMPERATURE
COLUMN HEATER, ACQUITY
UPLC COLUMN HEATER
MODULE, ACQUITY UPLC
COLUMN HEATER/COOLER,
ACQUITY UPLC COLUMN
MANAGER

11-2414
OEM 700003114
PEE K Ferrule, 1/16", 10/pk



MODEL: ACQUITY
H-CLASS QSM, ACQUITY
I-CLASS BSM, ACQUITY
ISOCRATIC SOLVENT MGR,
ACQUITY M-CLASS μ ASM,
ACQUITY M-CLASS μ BSM,
ACQUITY UPLC I2V BSM,
ACQUITY UPLC BSM, PREP
LC-2000, nanoACQUITY
UPLC BSM/ASM

CTS-11092
OEM WAT076152
O-Ring, PTFE



MODEL: ACQUITY UPLC BSM

CTS-11091 **KIT**
OEM 201000173

Acquity BSM Performance Maintenance Kit

- | | | | |
|--|---|---|---|
| • O-Ring, PTFE (CTS-11092) | 4 | • Wash Seal, 2/pk (CTS-11121-02) | 2 |
| • Plunger, 2/pk (CTS-11093-02) | 2 | • SS Primary Inlet CV Filter (CTS-A11123) | 2 |
| • UPLC Primary Check Valves, 2/pk (CTS-A11094-02) | 1 | • Tube Assy, SSV to In-line Filter (CTS-A11129) | 2 |
| • UPLC Check Valve, Double Ball & Seat, 2/pk (CTS-A11095-02) | 1 | • Tube Assembly, Transducer to Check Valve (CTS-A11133) | 2 |
| • Filter, Air, Pump Handle (CTS-11115) | 1 | • 50 μ L Std. Zirconia Mixer (CTS-A11135) | 1 |
| • Filter, Air, Acquity Pump (CTS-11116) | 1 | • Solvent Bottle Filter, 7/pk (CTS-5531-07) | 1 |
| • Head Plunger Seal, 2/pk (CTS-11119-02) | 2 | | |



MODEL: ACQUITY UPLC BSM, ACQUITY UPLC I2V BSM

CTS-11371 **KIT**
OEM 201000197

Acquity I2V BSM Performance Maintenance Kit

- | | | | |
|---|---|--|---|
| • O-Ring, PTFE (CTS-11092) | 4 | • SS Filter Frit Replacement Cartridge, 2/pk (CTS-11415) | 1 |
| • Plunger, 2/pk (CTS-11093-02) | 2 | • 50 μ L Std. Zirconia Mixer (CTS-A11135) | 1 |
| • UPLC Check Valves, Double Ball & Seat, 2/pk (CTS-A11095-02) | 1 | • Cartridge, Intelligent Valve, 2/pk (CTS-A11336-02) | 1 |
| • Filter, Air, Pump Handle (CTS-11115) | 1 | • Tube Assy, Transducer to Check Vlv, I2V (CTS-A11372) | 2 |
| • Filter, Air, Acquity Pump (CTS-11116) | 1 | • Tube Assy,SSV to I2V (CTS-A11374) | 2 |
| • Head Plunger Seal, 2/pk (CTS-11119-02) | 2 | • Solvent Bottle Filter, 7/pk (CTS-5531-07) | 1 |
| • Wash Seal, 2/pk (CTS-11121-02) | 2 | | |



MODEL: ACQUITY H-CLASS QSM

CTS-11335 **KIT**
OEM 201000233

Acquity H-Class QSM Performance Maintenance Kit

- | | | | |
|--|---|---|---|
| • O-Ring, PTFE (CTS-11092) | 2 | • Tube Assembly, Transducer to Check Valve (CTS-A11342) | 1 |
| • Plunger, 2/pk (CTS-11093-02) | 1 | • Filter, GPV, 4/pk (CTS-A11344) | 1 |
| • Check Valve, Double Ball & Seat (CTS-A11095) | 1 | • Filter, Air, Door (CTS-11370) | 1 |
| • Head Plunger Seal, 2/pk (CTS-11119-02) | 1 | • Mixer Assembly,100 μ L (CTS-A11376) | 1 |
| • Wash Seal, 2/pk (CTS-11121-02) | 1 | • Solvent Reservoir Filter,10 μ m (CTS-5531) | 5 |
| • Cartridge, Intelligent Valve (CTS-A11336) | 1 | | |



MODEL: ACQUITY H-CLASS SM-FTN

11-3601 **KIT**
OEM 201000234

Acquity H SM-FTN Performance Maintenance Kit
*Injector Valve Cartridge (700005236) not included
*Rotor Seal & Pod Repair Kit Included

- | | | | |
|---|---|---|---|
| • Seal Extension Tube (11-2569) | 1 | • Rotor Seal & Pod Repair Kit, Vespel, 3-Groove for Acquity Everflow Injector Pod/Cartridge (700002765) (11-4134) | 1 |
| • Tubing, Pump Outlet, GP (11-3602) | 1 | • 100 μ L Sample Metering Syringe, HP (CTS-A11167) | 1 |
| • Filter, Air, Side Panel (11-3606) | 1 | | |
| • Sample Needle Kit, 15 μ L (11-4116) | 1 | | |

PUMP PARTS

MODEL: ACQUITY, nano ACQUITY, H-CLASS, I-CLASS



MODEL: ACQUITY I-CLASS BSM, ACQUITY UPLC BSM, nanoACQUITY UPLC BSM/ASM
CTS-A11094-02
OEM 700002596
UPLC Primary Check Valve Assy, 2/pk



MODEL: ACQUITY H-CLASS QSM
CTS-A11095
OEM 700005164
Check Valve, Double Ball & Seat



MODEL: ACQUITY H-CLASS BIO QSM, ACQUITY I-CLASS BSM, ACQUITY UPLC I2V BSM, ACQUITY UPLC BSM, nanoACQUITY UPLC BSM/ASM
CTS-A11095-02
OEM 700002968
UPLC Check Valve, Double Ball & Seat 2/pk



MODEL: ACQUITY H-CLASS QSM
CTS-A11336
OEM 700005165
Cartridge, Intelligent Valve



MODEL: ACQUITY I-CLASS BSM, ACQUITY UPLC I2V BSM
CTS-A11336-02
OEM 700003563
Cartridge, Intelligent Valve, 2/pk



MODEL: ACQUITY I-CLASS BSM, ACQUITY UPLC BSM
CTS-11415
OEM 700002913
SS Filter Frit Replacement Cartridge, 2/pk



MODEL: ACQUITY UPLC I2V BSM, ACQUITY UPLC BSM
CTS-A11135
OEM 700002911
50µL Std. Zirconia Mixer



MODEL: ACQUITY H-CLASS QSM
CTS-A11376
OEM 700005119
Mixer Assembly, 100µL



MODEL: ACQUITY H-CLASS QSM
CTS-A11344
OEM 700005173
Filter, GPV, 4/pk



MODEL: ACQUITY I-CLASS BSM, ACQUITY UPLC BSM, ACQUITY UPLC I2V BSM
CTS-A11372
OEM 430001773
Tube Assy, Transducer to Check Valve, I2V



MODEL: ACQUITY I-CLASS BSM, ACQUITY UPLC BSM, ACQUITY UPLC I2V BSM
CTS-A11374
OEM 430001443
Tube Assy, SSV to I2V

PUMP PARTS

MODEL: ACQUITY, nano ACQUITY, H-CLASS, I-CLASS



MODEL: ACQUITY I-CLASS BSM, ACQUITY ISOCRATIC SOLVENT MGR, ACQUITY M-CLASS µASM, ACQUITY M-CLASS µBSM, ACQUITY UPLC I2V BSM, ACQUITY UPLC BSM, nanoACQUITY UPLC BSM/ASM
CTS-A11123
OEM 289003547
SS Primary Inlet Check Valve Filter



MODEL: ACQUITY I-CLASS BSM, ACQUITY ISOCRATIC SOLVENT MGR, ACQUITY M-CLASS µASM, ACQUITY M-CLASS µBSM, ACQUITY UPLC I2V BSM, ACQUITY UPLC BSM, nanoACQUITY UPLC BSM/ASM
CTS-A11123-02
OEM 700002912
SS Primary Inlet Check Valve Filter Kit, 2/pk



MODEL: nanoACQUITY UPLC BSM/ASM, nanoACQUITY UPLC w/2D TECHNOLOGY
CTS-A11129
OEM 430001470
Tube Assy, SSV to In-line Filter



MODEL: ACQUITY UPLC BSM, nanoACQUITY UPLC BSM/ASM
CTS-A11133
OEM 430001121
Tube Assy, Transducer to Check Valve



MODEL: ACQUITY UPLC BSM, OPEN ARCHITECTURE UPLC, UPLC W/ONLINE SPE TECHNOLOGY
CTS-A11145
OEM 430001486
Tube Assy, System Outlet, SDS



MODEL: ACQUITY H-CLASS QSM, ACQUITY ISOCRATIC SOLVENT MGR, ACQUITY M-CLASS µASM, ACQUITY M-CLASS µBSM
CTS-A11342
OEM 430002357
Tube Assembly, Transducer to Check Valve



MODEL: ACQUITY I-CLASS BSM, ACQUITY UPLC I2V BSM, ACQUITY UPLC BSM
CTS-11115
OEM 700002633
Filter, Air, Pump Handle



MODEL: ACQUITY I-CLASS BSM, ACQUITY UPC² BSM, ACQUITY UPLC I2V BSM, ACQUITY UPLC BSM
CTS-11116
OEM 700002632
Filter, Air, Acquity Pump



MODEL: ACQUITY H-CLASS BIO QSM, ACQUITY H-CLASS QSM
CTS-11370
OEM 700005167
Filter, Air, Door

PUMP PARTS & AUTOSAMPLER

MODEL: ACQUITY, nano ACQUITY, H-CLASS, I-CLASS



MODEL: ACQUITY H-CLASS BIO QSM, ACQUITY H-CLASS BIO SM-FTN, ACQUITY I-CLASS BSM, ACQUITY UPLC BSM, OPEN ARCHITECTURE UPLC, nanoACQUITY UPLC SAMPLE MGR

11-2525
OEM 700002634

1/4" Short Comp. Screw (Gold-Plated), 10/pk



MODEL: ACQUITY CM-30S, ACQUITY H-CLASS BIO QSM, ACQUITY H-CLASS BIO SM-FTN, ACQUITY H-CLASS QSM, ACQUITY I-CLASS BSM, ACQUITY UPLC BSM, OPEN ARCHITECTURE UPLC, nanoACQUITY HDX MGR, nanoACQUITY UPLC BSM/ASM

11-2526
OEM 700002635

Ferrule Set, 1/16" ID, Two-Piece, 10/pk



MODEL: ACQUITY H-CLASS BIO QSM, ACQUITY I-CLASS BSM, ACQUITY UPLC BSM, OPEN ARCHITECTURE UPLC, nanoACQUITY HDX MGR, nanoACQUITY UPLC BSM/ASM

11-2529
OEM 700002645

Screw, Comp., 10-32, 304SS, (Gold-Plated), 10/pk



MODEL: ACQUITY UPLC SAMPLE MGR, nanoACQUITY UPLC SAMPLE MGR

CTS-11150
OEM 401000501

Filter, Air, Chassis



MODEL: ACQUITY H-CLASS BIO SM-FTN, ACQUITY H-CLASS SM-FTN, ACQUITY I-CLASS SM-FTN

11-3606
OEM 401000694

Filter, Air, Side Panel

AUTOSAMPLER

MODEL: ACQUITY, nano ACQUITY, H-CLASS, I-CLASS



MODEL: ACQUITY UPLC SAMPLE MGR

CTS-A11151
OEM 700002644

Needle Assembly, PEE K



MODEL: ACQUITY UPLC SAMPLE MGR

11-4134 **KIT**
OEM Acquity Everflow Injector Pod/Cartridge (700002765)

Rotor Seal & Pod Repair Kit, Vespel, 3-Groove for Acquity Everflow Injector Pod/Cartridge (700002765)



MODEL: ACQUITY UPLC SAMPLE MGR, nanoACQUITY UPLC SAMPLE MGR

CTS-A11381
OEM 205000362

Needle, SS, 30µL



MODEL: ACQUITY H-CLASS BIO SM-FTN, ACQUITY H-CLASS SM-FTN, ACQUITY I-CLASS SM-FL, ACQUITY I-CLASS SM-FTN, ACQUITY M-CLASS µSM, ACQUITY UPC² SM-FL, ACQUITY UPLC SAMPLE MGR, nanoACQUITY UPLC SAMPLE MGR

CTS-A11167
OEM 700002570

100µL Sample Metering Syringe, HP



MODEL: ACQUITY UPLC SAMPLE MGR

CTS-A11142
OEM 430001084

Tube Assy, Inject Outlet



MODEL: ACQUITY H-CLASS

11-3602
OEM 430002452

Tubing, Pump Outlet, GP



MODEL: ACQUITY UPLC SAMPLE MGR, nanoACQUITY UPLC SAMPLE MGR

CTS-11149
OEM 700002572

Needle Seal O-Ring, 002 Kalrez

AUTOSAMPLER

MODEL: ACQUITY, nano ACQUITY, H-CLASS, I-CLASS



MODEL: ACQUITY UPLC
SAMPLE MGR, nanoACQUITY
UPLC SAMPLE MGR, OPEN
ARCHITECTURE UPLC
CTS-A11147
OEM 430001326
Sample Loop, 10µL



MODEL: ACQUITY H-Class
SM-FTN
11-2569 **KIT**
OEM 700005234
Seal Extension Tube



MODEL: ACQUITY UPLC
SAMPLE MGR, nanoACQUITY
UPLC SAMPLE MGR
11-3595
OEM 700002569
2.5mL Wash Syringe



MODEL: ACQUITY H-CLASS
SM-FTN, ACQUITY I-CLASS
SM-FTN
11-2591
OEM 405008854
Needle Guide



MODEL: ACQUITY H-Class
SM-FTN
11-4116 **KIT**
OEM 700005215
Sample Needle Kit, 15µL



MODEL: ACQUITY H-CLASS
BIO QSM, ACQUITY H-CLASS
SM-FTN, ACQUITY I-CLASS
SM-FTN
11-2570
OEM 405011492
Needle Seat

DETECTOR LAMPS

MODEL: 470, 474, 484, 486, 996, 2487, 2488, 2996



MODEL: 484, 486, 490
CTS-0335
OEM WAT080335
Window Gasket



MODEL: 486, LC MODULE 1
CTS-10699
OEM 700000356
Deuterium Lamp,
Long Life (2000 hr)



MODEL: 484, 486, 490
CTS-0336
OEM WAT080336
Lamp Side Gasket



MODEL: 486
CTS-11065 **KIT**
OEM WAT052666
486 Performance
Maintenance Kit

- D2 Long-Life Lamp (CTS-10699)
- Battery (CTS-10945) 1
- Filter Foam (CTS-11063-01) 1
- Quartz Lens (CTS-8068) 1
- Slo-Blow Fuse 0.5A (CTS-11064-01) 1



MODEL: 486
CTS-8068
OEM WAT080687
Quartz Lens



MODEL: 996, 2996
CTS-10268
OEM WAT052586
Deuterium Lamp (2000 hr)



MODEL: 484, 486
CTS-10328
OEM WAT080244
Optics Cover Window



MODEL: 2487, 2488,
ACQUITY UPLC TUV,
nanoACQUITY TUV
CTS-10465
OEM WAS081142
Deuterium Lamp (2000 hr)



MODEL: 2487, 2488
CTS-A11184
OEM WAS081341
Lamp Housing Window
Assembly

WATERS

DETECTOR LAMPS

MODEL: 470, 474



MODEL: 470
CTS-8389
Xenon Lamp, w/o Holder
or Mirror



MODEL: 474
CTS-10611
Xenon Lamp

MODEL: ACQUITY



MODEL: 2489 DUAL
WAVELENGTH UV, 2998
PDA, ACQUITY eLAMBDA
PDA, ACQUITY UPLC PDA,
ACQUITY UPLC TUV
11-4143
OEM 201000281
Lamp, Acquity PDA/TUV
2489/2998 Performance
Maintenance Kit (2000 hr)

LAMPS

DETECTOR LAMPS

AGILENT



MODEL: 1040, 1050, 1090
CTS-00127
OEM 79883-60002
VW (79583C),
DAD (G1306A),
MWD (79854A)
(1000 hr)



MODEL: 8452A
CTS-00128
OEM 08452-60104
Deuterium Lamp (2000 hr)



MODEL: 1100, 1200 DAD,
G1315A/B, G1365A/B
CTS-10473
OEM 2140-0590
Deuterium Lamp (1000 hr)



MODEL: 1100, 1120, 1200
VWD, 1220 VWD, G1314A/B
CTS-10494
OEM G1314-60100
Long Life Deuterium Lamp
(2000 hr)



MODEL: 1100, 1200 DAD,
G1315A/B, G1365A/B
CTS-10827
OEM 5181-1530
Long Life Deuterium Lamp
(2000 hr)



MODEL: 8453, 8454
CTS-10594
OEM 2140-0605
Deuterium Lamp (1000 hr)



MODEL: 1260, 1220 DAD,
G1315C/D, G1365C/D,
G7115A, G7165A
11-3984
OEM 2140-0820
Long Life Deuterium Lamp,
RFID (2000 hr)



MODEL: 1290, G4212A/B,
G7117A/B/C/D
11-4109
OEM 5190-0917
Long Life HiS Deuterium
Lamp, 8 pin, RFID
(2000 hr)



MODEL: 1100, 1200, 1220,
1260, G1315A/B, G1365A/B
CTS-A11218
OEM 2140-0813
Long Life Deuterium Lamp
(2000 hr)



MODEL: 8453A, G1315A/B/
C/D, G1365A/B/C/D
CTS-12013
OEM G1103-60001
Tungsten Lamp (1000 hr)



MODEL: 1100 DAD, 1200
DAD
11-4110
OEM 5182-1530
Long Life Deuterium Lamp
(2000 hr)

LAMPS

DETECTOR LAMPS

APPLIED BIOSYSTEMS (ABI), KRATOS



MODEL: 120, 120A, 130, 130A, 230A, 1000S, SF757, SF759, SF759A, SF773, SF775, SF783, SF783A, SF785A

CTS-00025
OEM N2920149
Deuterium Lamp (1000 hr)

DIONEX



MODEL: DSA-1, VDM-1
CTS-00246
Deuterium Lamp (1000 hr)

PERKINELMER



MODEL: BIO 19, LAMBDA 2, 5, 7, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 40, 800, 900

CTS-10854
OEM Old B0160917, L6022728
Deuterium Lamp (1500 hr)



MODEL: LC-480 PDA, LAMBDA BIO, LAMBDA 2, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 25, 35, 40, 45, 550, 551, 552, 552A, 553, 559, 559A, 800, 900

11-3343
OEM B0114620
Tungsten Lamp



MODEL: 200 SERIES, 785A
CTS-00025
OEM N2920149
Deuterium Lamp (1000 hr)

SHIMADZU



MODEL: SPD-10, SPD-10AV, SPD-10AVP, SPD-20A, SPD-20AV
CTS-00135
OEM 228-34016-02
Deuterium Lamp (2000 hr)

SPECTRA-PHYSICS



MODEL: 200, 201, 203, 204, 205, 206, 206PH, CE100, CE500, CE1000, CE2000, SP100, SP200, SPECTRACHROM 200, UV100, UV150, UV200, UV1000, UV2000, UV3000
CTS-00246
OEM 9551-0023
Deuterium Lamp (1000 hr)

THERMO SCIENTIFIC (TSP)



MODEL: 200, 201, 203, 204, 205, 206, 206PH, CE100, CE500, CE1000, CE2000, SP100, SP200, SPECTRACHROM 200, UV100, UV150, UV200, UV1000, UV2000, UV3000
CTS-00246
OEM 9551-0023
Deuterium Lamp (1000 hr)



MODEL: UV6000
CTS-A123
OEM 108052
Lamp Assembly, TSP
UV6000 Detector

LAMPS

DETECTOR LAMPS

WATERS



MODEL: 470
CTS-8389
Xenon Lamp, w/o Holder or Mirror



MODEL: 474
CTS-10611
Xenon Lamp



MODEL: 486
CTS-10699
OEM 700000356
Deuterium Lamp, Long Life (2000 hr)



MODEL: 996, 2996
CTS-10268
OEM WAT052586
Deuterium Lamp (2000 hr)



MODEL: 2487, 2488, ACQUITY UPLC TUV, nanoACQUITY TUV
CTS-10465
OEM WAS081142
Deuterium Lamp (2000 hr)



MODEL: 2489 DUAL WAVELENGTH UV, 2998 PDA, ACQUITY eLAMBDA PDA, ACQUITY UPLC PDA, ACQUITY UPLC TUV
11-4143
OEM 201000281
Lamp, Acquity PDA/TUV 2489/2998 Performance Maintenance Kit (2000 hr)

TOOLS

TOOLS

	CTS-00089 5/16" x 3/8" Open End Wrench,		CTS-TT-1001 Terry Tool Tubing Cutter
	CTS-00090 1/4" x 5/16" Open End Hex Wrench		CTS-TT-1003 Replacement Cutting Wheels, 3/pk
	CTS-00091 6" Adjustable Wrench		11-2574 Tubing Cutter for Polymeric 1/16" to 1/8" OD Tubing
	CTS-1059 Microprobe – Straight		11-2585 Tubing Cutter for Polymeric 3/16" to 5/16" OD Tubing
	CTS-1060 Microprobe – Arched		44-1786 Tubing Cutter for Polymeric 1/8" to 3/4" OD Tubing
	CTS-1042 OEM WAT011042 Plunger Insertion Tool		11-1413 Tubing Gauge

FILTERS, FITTINGS & TUBING

MOBILE PHASE SOLVENT FILTERS & FEP TUBING

	CTS-A11259 Solvent Filter 10µm SS with 1/16" Stem		11-1418 Solvent Filter 10µm SS with 1/4-28 Nut/Ferrule for 1/8" OD Tubing
	CTS-5531 Solvent Filter 10µm SS with 1/8" Stem		11-1419 Solvent Filter 20µm SS with 5/16-24 Nut/Ferrule for 3/16" or 4mm OD Tubing
	11-1414 Solvent Filter 10µm SS with 1/16" Stem		11-1420 Solvent Filter 10µm SS with 1/4-28 Nut/Ferrule for 1/16" OD Tubing

FILTERS, FITTINGS & TUBING

MOBILE PHASE SOLVENT FILTERS & FEP TUBING

	11-1421 Solvent Filter 10µm SS with 1/4-28 Nut/Ferrule for 2mm OD Tubing		11-1108 Tubing FEP 1/8" OD x 1/16" ID x 20ft
	11-1422 Solvent Filter 10µm SS with 1/4-28 Nut/Ferrule for 3mm OD Tubing		11-1109 Tubing FEP 1/8" OD x 1/16" ID x 50ft
	11-1888 Adapter ETFE with 1/4-28 Female Port for use with CTS-10843 (adapts glass filter for use with Mobile Phase tubing 1mm to 1/8" OD)		11-1127 Tubing FEP 3mm OD x 2mm ID x 3m
	CTS-10843 Glass Solvent Filter		11-1128 Tubing FEP 3mm OD x 2mm ID x 6m
	11-1117 Tubing FEP 1/16" OD x 0.020" ID x 10ft		11-1129 Tubing FEP 3mm OD x 2mm ID x 15m
	11-1118 Tubing FEP 1/16" OD x 0.020" ID x 20ft		11-1112 Tubing FEP 3/16" OD x 1/8" ID x 10ft
	11-1119 Tubing FEP 1/16" OD x 0.020" ID x 50ft		11-1113 Tubing FEP 3/16" OD x 1/8" ID x 20ft
	11-2559 Tubing FEP 1/16" OD x 0.030" ID x 10ft		11-1114 Tubing FEP 3/16" OD x 1/8" ID x 50ft
	11-2560 Tubing FEP 1/16" OD x 0.030" ID x 20ft		11-1122 Tubing FEP 1/4" OD x 0.188" ID x 10ft
	11-2561 Tubing FEP 1/16" OD x 0.030" ID x 50ft		11-1123 Tubing FEP 1/4" OD x 0.188" ID x 20ft
	11-1107 Tubing FEP 1/8" OD x 1/16" ID x 10ft		11-1124 Tubing FEP 1/4" OD x 0.188" ID x 50ft

FILTERS, FITTINGS & TUBING

TUBING		
Stainless Steel Tubing		
	Part No.	Description
	11-2612	Tubing Stainless Steel 1/16" OD x 250µm (0.010") ID x 10ft
	11-2610	Tubing Stainless Steel 1/16" OD x 0.50mm (0.020") ID x 10ft
	11-1201	Tubing Stainless Steel 1/16" OD x 0.75mm (0.030") ID x 10ft
	11-2611	Tubing Stainless Steel 1/16" OD x 1mm (0.040") ID x 10ft
PEEK Tubing (Black) – 0.004 " ID x 1/16 " OD		
	Part No.	Description
	11-1173	Tubing PEE K Black 1/16" OD x 0.004" ID x 5ft
	11-1174	Tubing PEE K Black 1/16" OD x 0.004" ID x 10ft
	11-1175	Tubing PEE K Black 1/16" OD x 0.004" ID x 20ft
	11-1176	Tubing PEE K Black 1/16" OD x 0.004" ID x 50ft
	11-1177	Tubing PEE K Black 1/16" OD x 0.004" ID x 100ft
PEEK Tubing (Red) – 0.005 " ID x 1/16 " OD		
	Part No.	Description
	11-1151	Tubing PEE K Red 1/16" OD x 0.005" ID x 5ft
	11-1152	Tubing PEE K Red 1/16" OD x 0.005" ID x 10ft
	11-1153	Tubing PEE K Red 1/16" OD x 0.005" ID x 20ft
	11-1154	Tubing PEE K Red 1/16" OD x 0.005" ID x 50ft
	11-1155	Tubing PEE K Red 1/16" OD x 0.005" ID x 100ft
PEEK Tubing (Yellow) – 0.007 " ID x 1/16 " OD		
	Part No.	Description
	11-1156	Tubing PEE K Yellow 1/16" OD x 0.007" ID x 5ft
	11-1157	Tubing PEE K Yellow 1/16" OD x 0.007" ID x 10ft
	11-1158	Tubing PEE K Yellow 1/16" OD x 0.007" ID x 20ft
	11-1159	Tubing PEE K Yellow 1/16" OD x 0.007" ID x 50ft
	11-1160	Tubing PEE K Yellow 1/16" OD x 0.007" ID x 100ft

FILTERS, FITTINGS & TUBING

TUBING		
PEEK Tubing (Blue) – 0.010 " ID x 1/16 " OD		
	Part No.	Description
	11-1136	Tubing PEE K Blue 1/16" OD x 0.010" ID x 5ft
	11-1137	Tubing PEE K Blue 1/16" OD x 0.010" ID x 10ft
	11-1138	Tubing PEE K Blue 1/16" OD x 0.010" ID x 20ft
	11-1139	Tubing PEE K Blue 1/16" OD x 0.010" ID x 50ft
	11-1140	Tubing PEEK Blue 1/16" OD x 0.010" ID x 100ft
PEEK Tubing (Orange) – 0.020 " ID x 1/16 " OD		
	Part No.	Description
	11-1141	Tubing PEE K Orange 1/16" OD x 0.020" ID x 5ft
	11-1142	Tubing PEE K Orange 1/16" OD x 0.020" ID x 10ft
	11-1143	Tubing PEE K Orange 1/16" OD x 0.020" ID x 20ft
	11-1144	Tubing PEE K Orange 1/16" OD x 0.020" ID x 50ft
	11-1145	Tubing PEE K Orange 1/16" OD x 0.020" ID x 100ft
PEEK Tubing (Green) – 0.030 " ID x 1/16 " OD		
	Part No.	Description
	11-1146	Tubing PEE K Green 1/16" OD x 0.030" ID x 5ft
	11-1147	Tubing PEE K Green 1/16" OD x 0.030" ID x 10ft
	11-1148	Tubing PEE K Green 1/16" OD x 0.030" ID x 20ft
	11-1149	Tubing PEE K Green 1/16" OD x 0.030" ID x 50ft
	11-1150	Tubing PEE K Green 1/16" OD x 0.030" ID x 100ft
PEEK Tubing (Natural) – 0.040 " ID x 1/16 " OD		
	Part No.	Description
	11-1162	Tubing PEE K Natural 1/16" OD x 0.040" ID x 5ft
	11-1163	Tubing PEE K Natural 1/16" OD x 0.040" ID x 10ft
	11-1164	Tubing PEE K Natural 1/16" OD x 0.040" ID x 20ft
	11-1165	Tubing PEEK Natural 1/16" OD x 0.040" ID x 50ft
	11-1166	Tubing PEE K Natural 1/16" OD x 0.040" ID x 100ft

FILTERS, FITTINGS & TUBING

HIGH PRESSURE FITTINGS

Stainless Steel Nut/Ferrules		
	Part No.	Description
	11-1237	Nut 10-32 Stainless Steel Male for 1/16" OD Tubing, 10/pk
	11-1239	Ferrule Stainless Steel for 1/16" OD Tubing, 10/pk
	Part No.	Description
	CTS-11016 KIT	Swagelok Style Compression Fitting Kit, 10/pk • Nut 10 • Front Ferrule 10 • Back Ferrule 10

Plug 10-32 PEEK K		
	Part No.	Description
	CTS-1820	Grip-tight PEEK 10-32 HPLC Column Plug

Fingertight One-Piece Nut/Ferrules		
	Part No.	Description
	11-1240	Fingertight One-Piece 10-32 PEEK K Male Nut/Ferrule for 1/16" Tubing, 10/pk

Fingertight Two-Piece Nut/SealTight Ferrules		
	Part No.	Description
	11-1257	Fitting 10-32 Fingertight PEEK K Short Male Nut/SealTight PEEK K Ferrule for 1/16" OD Tubing, 10/pk
	11-1259	Fitting 10-32 Fingertight PEEK K Long Male Nut/SealTight PEEK K Ferrule for 1/16" OD Tubing, 10/pk
	11-1269	Ferrule SealTight PEEK K for 1/16" OD Tubing, 10/pk

Fingertight Two-Piece Nut/Ferrules		
	Part No.	Description
	11-1209	Fitting 10-32 Fingertight Red Delrin Single Wing-Nut Male/PEEK K Ferrule for 1/16" OD Tubing, 10/pk
	11-1213	Fitting 10-32 Fingertight PEEK Double Wing-Nut Male Nut/PEEK K Ferrule for 1/16" OD Tubing, 10/pk
	11-1217	Fitting 10-32 Fingertight PEEK Long Male Nut/PEEK K Ferrule for 1/16" OD Tubing, 10/pk
	11-1221	Fitting 10-32 Fingertight PEEK Short Male Nut/PEEK K Ferrule for 1/16" OD Tubing, 10/pk
	11-1255	Ferrule PEEK K for 1/16" OD Tubing, 10/pk

Fingertight RheFlex Two-Piece Nut/Split Ferrules		
	Part No.	Description
	11-1271	Fitting 10-32 RheFlex PEEK K Male Nut/Split Ferrule for 1/16" OD Tubing, 10/pk
	11-1274	Ferrule Split PEEK K for 1/16" OD Tubing, 10/pk

PUMP TROUBLESHOOTING PROCEDURES

You can troubleshoot most Waters M6000, 510, 590, 600, and 610 pumping problems in a short time by observing the pressure meter on your pump. The following procedures will show you how.

RAMP TEST

This is the first test to try, as it involves the least amount of work and disassembly, and it will find most pumping problems.

1. Disconnect the outlet of the pump from the rest of your HPLC system.
2. Connect a short piece of tubing to the pump outlet, and put the other end of this tube into a beaker.
3. Prime the pump thoroughly with methanol. Make sure you have drawn enough methanol through the solvent inlet line to ensure the pump is pumping methanol.
4. Remove the tubing at the pump outlet and install a plug fitting to stop flow.
5. Set the pressure limit for 4000-5000 psi.
6. Set the flow rate for 0.3-1.0 ml/min and observe the psi meter and the indicator rods. With a properly-operating pump, you will see a smooth increase in pressure until the pressure limit is reached.

Below are two examples of the most common symptoms of Ramp Test failure and how to resolve them. The examples use the left and right side to describe the symptoms: interchange the left and right in the text if needed to match your symptoms.

SYMPTOM #1

While watching the left indicator rod coming out, the pressure increases. When the right indicator rod comes out, the pressure stops increasing and stays about the same. When the left indicator rod again begins coming out, the pressure again begins increasing.

ANALYSIS

The right inlet check valve is not working. This symptom is fairly easy to understand. The inlet check valve is either stuck open, and the mobile phase is sloshing back and forth as the plunger goes in and out, or it is stuck shut, never allowing mobile phase into the pump head.

Possible Problem	Solution
Check valve dirty	Clean and rebuild
Seat worn out	Clean and rebuild

SYMPTOM #2

While watching the left indicator rod coming out, the pressure increases. When the right indicator rod comes out, the pressure drops almost back to zero. When the left indicator rod again begins coming out, the pressure again increases.

ANALYSIS

The left outlet check valve is leaking back. This symptom is more difficult to understand, until you think about where the mobile phase is going. When the left plunger comes out, the pressure increases. When the right plunger comes out, it pumps mobile phase out, into the reference valve or tee fitting, and over to the left side. The left outlet check valve is leaking backwards, allowing what the right side is pumping to enter and fill the left side as the left plunger is going in.

Possible Problem	Solution
Check valve dirty	Clean in ultrasonic cleaner; flush thoroughly with methanol in priming syringe; disassemble and rebuild check valve
Air bubble trapped in check valve	Reprime with methanol

OTHER SYMPTOMS

If your symptoms differ from these, you may have multiple problems and should use the Modified Ramp Test. This test is also useful if you want to verify your troubleshooting from the above steps or you are unsure of your diagnosis.

MODIFIED RAMP TEST

(Perform steps 1 - 5 from the standard Ramp Test.)

1. Disconnect the outlet of the pump from the rest of your HPLC system.
2. Connect a short piece of tubing to the pump outlet and put the other end of this tube into a beaker.
3. Prime the pump thoroughly with methanol. Make sure you have drawn enough methanol through the solvent inlet line to ensure the pump is pumping methanol.
4. Remove the tubing at the pump outlet and install a plug fitting, to stop flow.
5. Set the pressure limit for 4000-5000 psi.
6. Disconnect the tube between the outlet check valve and the reference valve or tee fitting, at the reference valve or tee, on the side of the pump not being tested (if you are testing the left side, disconnect the right side).
7. Put a plug fitting into the reference valve or tee where you removed the tube. You may want to put a towel under the open end of the disconnected tube; it will drip a little during the following steps. Do not cap the dripping tube.
8. Set the flow to 1 ml/min, and observe the psi meter and the indicator rod on the side being tested.

SYMPTOM #1

The pressure increases steadily while the plunger is coming out and holds pressure while the plunger is retracting. Analysis: This pump head is pumping okay.

SYMPTOM #2

The pressure never increases above 0 psi. Analysis: The inlet check valve is not working. Reprime this pump head and try again. If this fails, see Symptom #1 of the Ramp Test to repair.

SYMPTOM #3

The pressure increases steadily while the plunger is coming out, but drops abruptly while the plunger is retracting. Analysis: The outlet check valve is leaking back. See symptom #2 of the Ramp Test to repair.

SYMPTOM #4

The pressure increases steadily during the first plunger out stroke, but increases less during the next out strokes; the pressure holds while the plunger is retracting. Analysis: The plunger seal is beginning to leak, or the inlet check valve is leaking back slightly. To repair, look at the weep hole at the bottom of the support bushing, or between the pump head and the support bushing, and see if the mobile phase has been leaking past the plunger seal. If so, slightly tighten the two allen head screws holding the pump head and retest. If the pump head is tight against the support bushing, it is time to replace the plunger seal. If the inlet check valve is leaking back, see symptom #1 of the Ramp Test to repair.

OTHER SYMPTOMS

If you need any further assistance, please feel free to call 952.895.8292 or toll-free at 800.682.3295 during the hours of 8 a.m. to 5 p.m. CST. Thanks for calling!