



HPLC and Mass Spec. Products Catalog



ORDERING INSTRUCTIONS

BY PHONE
Call toll-free 800.682.6480 or 952.895.8292.
Our normal business hours are 8 a.m. to 5 p.m.
(Central Standard Time).

BY FAX
Dial 952.895.8493 to send your order by fax,
24 hours a day.

BY E-MAIL
sales@sciencix.com

BY MAIL
Sciencix
14261 W. Burnsville Pkwy
Burnsville, MN 55306

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, Discover

BY WEBSITE
www.sciencix.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.

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 reflection
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 Sciencix parts. Sciencix defines 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 the corresponding OEM part. On the rare occasion that you
experience a problem with a Sciencix 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 Relations at 800.682.6480 or 952.895.8292, 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.

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

SHIP RETURNS TO
Sciencix
14261 W. Burnsville Pkwy
Burnsville, MN 55306

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

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OUR PROCESS

materials. geometry.
performance. appearance.

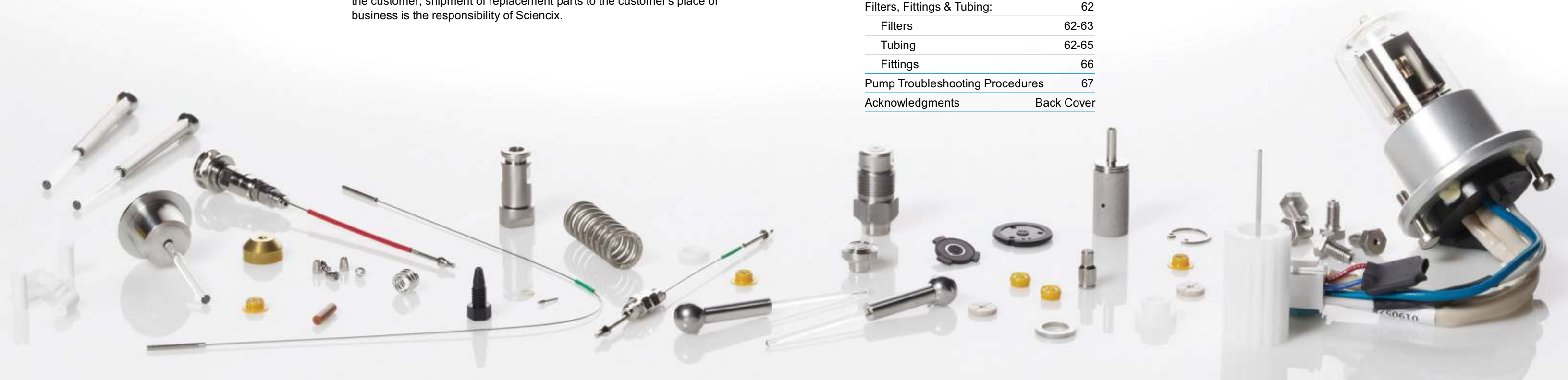
Understanding the requirements of our customers and the analytical
instrumentation industry is at the core of our process for solid product
design. It all starts with listening. With years of experience and
discussions with a variety of customers, we have distilled what we've
learned into the four pillars 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, Sciencix pursues two possible
paths towards offering OEM alternative parts. Sciencix has cultivated
relationships with many parts and component manufacturing
companies that cater to high tech industries such as analytical
instrumentation. Sciencix uses these vendors wherever possible to
source parts that match the performance and look of the OEMs.
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 Sciencix, 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 Sciencix. 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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PUMP PARTS

MODEL: 1260, 1290



MODEL: 1 100, 1120, 1200, 1260, G1310A/B, G13 11A/B/C, G1312A/B/C, G1376A, G2226A

CTS-21035
OEM G1312-60071

Purge Valve (long), w/PT FE Frit



MODEL: 1290

CTS-21070
OEM G4220-60022

Inlet Valve



MODEL: 1260, G1310B, G1311B, G1312B

11-4145
OEM G1312-60020

Active Inlet Valve Cartridge (60 0 b ar)



MODEL: 1260, 1290, 1050 1100, 1220, G4220A/B

CTS-10683
OEM 01018-22707

PTFE Frits, 5/pk



MODEL: 1260, 1100, 1200, 1220

11-4093
OEM G1312-60067

Outlet Ball Valve (600 bar)



MODEL: 1260, 1050, 1100, 1120, 1200, 1220

11-3321
OEM 5062-2484

Wash Seal Gasket, 6/pk



MODEL: 1260, 1100, 1200, 1220

11-4101
OEM G1312-60066

Passive Inlet Valve



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

11-4146 **KIT**
OEM G1312-68741

PM Kit, G1312 Binary Pump

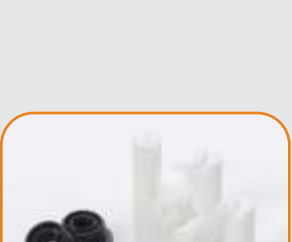
- Black Piston Seals, 2/pk (CTS-10417) 2
- Frit, PTFE, 5/pk (CTS-10683) 1
- Gaskets (CTS-10812) 4
- Seal Cap Assembly (CTS-A11454) 1



MODEL: 1260, 1050, 1100, 1120, 1200, 1220, G1310A/B, G1311A/B/C, G1312A/B/C, G1376A, G2226A, G4302A

CTS-10417
OEM 5063-6589

Black Piston Seals, 2/pk



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



MODEL: 1260, 1050, 1100, 1120, 1200, 1220, G7129A

CTS-10621
OEM 05-1503

Seal, Pump

PUMP PARTS

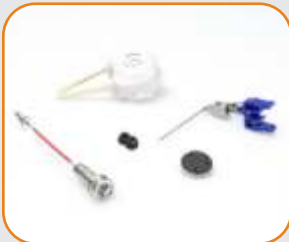
MODEL: 1260, 1290



MODEL: 1290, G4204A
CTS-21566 **KIT**
OEM G4204-68742
PM Kit, Seal Wash for Binary Pump G4204A
• Wash Seal, PE (11-3832) 2
• Film Washer (CTS-21108) 2
• Peristaltic Pump (CTS-21183) 1



MODEL: 1290, G7167B
CTS-21278
OEM 5068-0198
Rotor seal, Injector Valve (1300 bar), G7167B



MODEL: 1260, G1367E
CTS-21577 **KIT**
OEM G1367-68741
PM Kit, G1367E
• Peristaltic Pump (CTS-21183) 1
• Black Piston Seals, 2/pk (CTS-10417) 1
• 2 Position/6 Port Rotor Seal, Vespel (600 bar) (CTS-12012)
• Needle Assembly (11-3883) 1
• Needle Seat, 0.12mm ID, 0.8mm OD, PEEK 600 bar (CTS-21277)



MODEL: 1260, 1050, 1100, 1120, 1200, 1220, G1310B, G1311B/C, G1312B/C, G2226A, G4302A
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: 1290, G4240
CTS-21567 **KIT**
OEM G4220-68742
PM Kit, Seal Wash for Binary Pump G4240A
• Wash Seal, PE (11-3832) 4
• Film Washer (CTS-21108) 4
• Peristaltic Pump (CTS-21183) 1



MODEL: 1260, 1050, 1100, 1120, 1200, 1220, G1310A/B, G1311A/B/C, G1312A/B/C, G1376A, G2226A
CTS-10303
OEM 5063-6586
Sapphire Plunger



MODEL: 1290, G4204A, G4220A, G4220B
CTS-21219
OEM 5067-5678
Piston Ceramic



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



MODEL: 1290, G4226A
CTS-21591 **KIT**
OEM G4226-68735
PM Kit, G4226A
• Peristaltic Pump (CTS-21183) 1
• 2 Position/6 Port Rotor Seal, (1200 bar) (11-2312) 1
• Metering Device Seal (11-3830)
• Needle Assembly (11-3883) 1
• Needle Seat Assembly, 0.12mm ID (11-3889) 1

PUMP PARTS

MODEL: 1260, 1290



MODEL: 1290
11-3834
OEM 0905-1719
Pump Seal, PE



MODEL: 1260, 1290, 1100, 1200
CTS-21069
OEM 5062-8517
Frit Adapter, 4/pk



MODEL: 1290
CTS-21421 **KIT**
OEM G4220-68741
PM Kit, 1290 Binary Pump



MODEL: 1260
CTS-21106 **KIT**
OEM G1310-68742
Seal Wash PM Kit, 1260 Pump



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



MODEL: 1260, 1290, 1050, 1100, 1200, 1220
CTS-A11454
OEM 5067-4728
Seal Cap Assembly



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: 1290, 1260, 1220, 1200, 1100
CTS-21679
OEM 5180-4114
Back Ferrule, 1/16", SS, 10/pk



MODEL: 1290, 1260, 1220, 1200, 1100
CTS-21680
OEM 5180-4108
Front Ferrule, 1/16", SS, 10/pk



MODEL: 1290, 1260, 1220, 1200, 1100
CTS-21183
OEM 5065-4445
Peristaltic Pump

PUMP PARTS

MODEL: 1260, 1290



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



MODEL: 1260, 1100, 1200
CTS-11458
OEM 5021-1818
Capillary, 280mm 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, 1100, 1200
CTS-11457
OEM 5021-1817
Capillary, 150mm x 0.17mm ID



MODEL: 1290, 1260, 1220
11-3832
OEM 0905-1718
Wash Seal, PE



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



MODEL: 1260, 1200, 1100
CTS-21109
OEM 5065-9933
Capillary, 600 mm x 0.17 mm ID



MODEL: 1290, 1260, 1200, 1100
CTS-21155
OEM 5067-4657
Capillary, 300mm x 0.17mm ID, w/Fittings (SST capillary pump to sampler)



MODEL: 1290, 1260, 1200, 1100
CTS-21169
OEM G1316-87300
Assy, Capillary, 90mm x 0.17mm ID, w/Fittings

AUTOSAMPLER

MODEL: 1260, 1290



MODEL: 1290
11-3889
OEM G4226-87012
Needle Seat Assembly, 0.12mm ID



MODEL: 1260
11-3857
OEM G1367-87017
Needle Seat, 0.17mm ID, 0.8 mm OD, 600 bar



MODEL: 1260
CTS-21277
OEM G1367-87012
Needle Seat, 0.12mm ID, 0.8mm OD, PEEK, 600 bar



MODEL: 1260, 1290
11-3883
OEM G4226-87201
Needle Assembly



MODEL: 1260, 1100, 1120, 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, 0.17mm ID



MODEL: 1260, G7167A
CTS-21163
OEM 5068-0209
Rotor Seal, 2 Groove



MODEL: 1260, 1200
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-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

AUTOSAMPLER

MODEL: 1260, 1290



MODEL: G1313, G1329, G1367, G1389, G4226, G4290, G4294, G7167A, G7129, 1100, 1200, 1220, 1260, 1290
CTS-21266
OEM 1535-4045, 7010-006
Bearing Ring



MODEL: 1290
11-3830
OEM 0905-1717
Metering Device Seal

DETECTOR LAMPS

MODEL: G1314D, G1314E, G1314FG7114A/B



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



MODEL: G1314D, G1314E, G1314F, G7114A/B
11-4111
OEM G1314-60101
Long Life HiS Deuterium Lamp, RFID, VWD (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: 1100, 1200, 1220



MODEL: 1100, 1200, 1220, 1260
11-4093
OEM G1312-60067
Outlet Ball Valve (600 bar)



MODEL: 1100, 1200, 1220, 1050, 1120, 1260, G1310A/B, G1311A/B/C, G1312A/B/C, G1376A, G2226A
CTS-10303
OEM 5063-6586
Sapphire Plunger



MODEL: 1100, 1200, 1220, 1260
11-4101
OEM G1312-60066
Passive Inlet Valve



MODEL: 1100, 1200, 1220, 1050, 1120, 1260, G1310B, G1311B/C, G1312B/C, G2226A, G4302A
CTS-11088
OEM 0905-1420
Gold Piston Seals, 2/pk



MODEL: 1100, 1200, 1220, 1050, 1120, G1310A/B, G1311A/B/C, G1312A/B/C, G1376A, G2226A, G4302A
CTS-10417
OEM 5063-6589
Black Piston Seals, 2/pk



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



MODEL: 1050, 1100, 1120, 1200, 1220, 1260, G7129A
CTS-10621
OEM 0905-1503
Seal, Pump



MODEL: 1200, 1100, G1367D, G1389A, G1377A
CTS-21347
OEM 5022-2175
Plunger Seal



MODEL: 1220, 1200, 1100
CTS-21678
OEM 0100-1516
PEEK Fitting, 1/16" OD (2/pk)



MODEL: 1050, 1090, 1100, 1120, 1200, 1220, 1260, 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) 4
• Gaskets (CTS-10812) 4
• Seal Cap Assembly (CTS-A11454) 3

PUMP PARTS

MODEL: 1100, 1200, 1220



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, 1090, 1220, 1260, 1290
CTS-10843
OEM 5041-2168
Glass Solvent Filter



MODEL: 1100, 1200, 1220, 1050, 1260, 1290
CTS-A11454
OEM 5067-4728
Seal Cap Assembly



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



MODEL: 1100, 1200, 1220, 1050, 1260, 1290, G4220A/B
CTS-10683
OEM 01018-22707
PTFE Frits, 5/pk

AUTOSAMPLER

MODEL: 1100, 1200, 1220



MODEL: 1100, 1120, 1200, 1220, 1260
CTS-10835
OEM G1313-87201
Needle Assembly



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



MODEL: 1100, 1200, 1120, 1220, G1313A, G1329A/B
11-4059
OEM 01078-87302
Capillary, Loop, 100µL



MODEL: 1100, 1200, 1120, 1220, 1260, 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: 1220, 1200, 1100
CTS-21585
OEM G4280-68770
PM Kit, 1220

- Needle Seat, Std., PEEK™, 0.17mm ID (11-2605) 1
- Black Piston Seals, 2/pk (CTS-10417) 1
- Needle Assembly (CTS-10835) 1
- 2 Position/6 Port Rotor Seal, Vespel (600 bar) (CTS-12012) 1
- Seal Cap Assembly (CTS-A11454) 1

PUMP PARTS

MODEL: 1100, 1200



MODEL: 1100, 1200, 1220, 1260
11-4093
OEM G1312-60067
Outlet Ball Valve (600 bar)



MODEL: 1100, 1200, 1050, 1090, 1220, 1260, 1290
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, 1050
CTS-10807
OEM 5063-6505
Outlet Valve Sieves, 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, Binary Pump

- Seals (CTS-10675) 4
- Gaskets (CTS-10812) 4



MODEL: 1100, 1200, 1050, G1310A, G1311A, G1311C, G1312A/C, G1322A, G1376A,
CTS-10673
OEM 5062-8562
Active Inlet Valve Cartridge (400 bar)



MODEL: 1100, 1200, 1050, 1220, 1260, 1290
CTS-A11454
OEM 5067-4728
Seal Cap Assembly



MODEL: 1100, 1200, 1050, 1220, 1260, 1290, G4220A/B
CTS-10683
OEM 01018-22707
PTFE Frits, 5/pk



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-10833 KIT
OEM G1311-68710
Pump Maintenance Kit

- Black Piston Seals, 2/pk (CTS-10417) 2
- Active Inlet Cartridge (400 bar) (CTS-10673) 1
- PTFE Frits (CTS-10712) 2
- Glass Solvent Filter (CTS-10843) 2
- Seal Cap Assembly (CTS-A11454) 1

PUMP PARTS

MODEL: 1100, 1200



MODEL: 1100, 1200, 1050
CTS-11284 **KIT**
OEM 5065-4499
Extended Isocratic Pump PM Kit

- Sapphire Plunger (CTS-10302)
- Black Piston Seals, 2/pk (CTS-10417) 1
- Active Inlet Cartridge (400 bar) (CTS-10673) 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-A13454) 1
- 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-A13454) 1



MODEL: 1100, 1200, 1260, 1290
CTS-21069
OEM 5062-8517
Frit Adapter, 4/pk



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

- Nut 10
- Front Ferrule 10
- Back Ferrule 10



MODEL: 1100, G1310A/G1311A Pump, G1313A/G1329A Autosampler
CTS-21586 **KIT**
OEM 01100-68000
1100 Series Essential Pack, G1310A/G1311A Pump, G1313A/G1329A Autosampler

- Needle Seat, Std., PEEK™, 0.17mm ID (11-2605) 1
- Black Piston Seals, 2/pk (CTS-10417) 1
- Rotor Seal, Vespel, 2-Groove (CTS-10459) 1
- PTFE Frits, 5/pk (CTS-10683) 1
- Needle Assembly (CTS-10835) 1
- Glass Solvent Filter (CTS-10843) 1
- Frit Adapter, 4/pk (CTS-21069) 1
- Seal Cap Assembly (CTS-A11454) 1

PUMP PARTS

MODEL : 1100, 1200



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, 1200, 1120, 1220, G1313A, G1329A/B
11-4059
OEM 01078-87302
Capillary, Loop, 100µL



MODEL: 1100, 1200, 1220, 1050, 1120, G1310A/B, G1311A/B/C, G1312A/B/C, G1376A, G2226A, G4302A
CTS-10417
OEM 5063-6589
Black Piston Seals, 2/pk



MODEL: 1050, 1100, 1120, 1200, 1220, 1260, G7129A
CTS-10621
OEM 0905-1503
Seal, Pump



MODEL: 1200, 1260
CTS-12012
OEM 0101-1416
2 Position/6 Port Rotor Seal, Vespel (600 bar)



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

AUTOSAMPLER

MODEL: 1100, 1200



MODEL: 1100, 1120, 1200, 1220, 1260
CTS-10835
OEM G1313-87201
Needle Assembly



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



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)
• Stator Face Assy (CTS-A10678)
• Needle Assembly (CTS-10835)
• Needle Seat, Std., PEEK 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)
• Needle Assembly (CTS-10835)
• Needle Seat, Std., PEEK 0.17mm ID (11-2605) 1



MODEL: 1100, 1200, 1120, 1220, 1260, G1313A, G1329A/B
11-4148 **KIT**
OEM G1313-68719
PM Kit, G1329B
• Seal, Pump (CTS-10621) 1
• Needle Assembly (CTS-10835)
• 2 Position/6 Port Rotor Seal, Vespel (600 bar) (CTS-12012)
• Needle Seat, Std., PEEK 0.17mm ID (11-2605) 1



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)
• Needle Seat, Std., PEEK 0.17mm ID (11-2605) 1
• Finger Caps, 3/pk (CTS-10834)

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, 1200 VWD, 1120, 1220 VWD, G1314A, G1314B, G1314C
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)

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

DETECTOR LAMPS



MODEL: 200 Series, 785A UV/Vis
CTS-00025
OEM N2920149
Deuterium Lamp (1000 hr)



MODEL: 5, 7, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 25, 35, 40, 45, 800, 850, 900, 950, 1050, Bio 19, and Lambda 2 UV/Vis
CTS-10854
OEM L6022728, Old# B0160917
Deuterium Lamp (1500 hr)



MODEL: 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 25, 35, 40, 45, 550, 551, 552, 552A, 553, 559, 559A, 800, 850, 900, 950, 1050, Lambda 2, Lambda Bio, and LC-480 PDA Spectrometers
11-3343
OEM B0114620
Tungsten Lamp

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

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

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, Vespel



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



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

MASS SPEC



MODEL: 3200, 4000, 4500, 5000, 5500, 6500
33-1034
OEM 025392
TIS Capillary Electrode



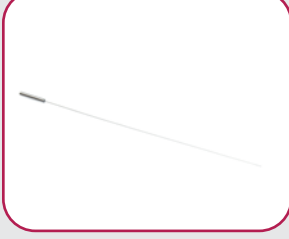
MODEL: 4500, 5500, 6500
CTS-21309
OEM 4465678
Rotor Seal, Valco Cheminert



MODEL: 3200, 3500, 4000, 4500, 5000, 5500, 6500
CTS-21173
OEM 003403
O-Ring (3/16" ID X 1/16", Viton)



MODEL: 3200, 3500, 4000, 4500, 5000, 5500, 6500
CTS-21189
OEM 026626
Spring, Turbo V Source



MODEL: API-4000, API-5000, 4500, 5500, 6500
CTS-21102
OEM 025388
APCI Capillary Electrode



MODEL: API 2000, QTRAP
CTS-21212
OEM 018782
TIS Capillary Electrode



MODEL: 3200, 3500, 4000, 4500, 5000, 5500, 6500
CTS-21134
OEM 027471
1/16" Short Hex PEEK Fitting



MODEL: 3200, 3500, 4000, 4500, 5000, 5500, 6500
CTS-21137
OEM 025348, 5045984
1/16" Union for TIS Probe/APCI for Turbo V Source



MODEL: API 4000, 3200, 3500, 4500, 5500, 6500
CTS-21500 **KIT**
OEM 5058491
Electrode Turbo Kit, MS

- Peek Fitting-Natural (CTS-21446) 1
- Spring, Turbo V Source (CTS-21189) 1
- O-Ring (3/16" ID X 1/16", Viton) (CTS-21173) 1
- 1/16" Union for TIS Probe and APCI (CTS-21137) 1
- TIS Capillary Electrode (33-1034) 1



MODEL: 3200, 3500, 4000, 4500, 5500, 6500
CTS-21286 **KIT**
OEM 5058495, (Old# 5043951)
PM KIT, MS

- 1/16" Short Hex PEEK Fitting (CTS-21134) 1
- Spring, Turbo V Source (CTS-21189) 1
- O-Ring (3/16" ID X 1/16", Viton) (CTS-21173) 1
- TIS Capillary Electrode (33-1034) 1
- 1/16" Union for TIS Probe and APCI (CTS-21137) 1
- Fingertight One Piece 10-32 PEEK Male Nut/Ferrule for 1/16" OD Tubing (CTS-1818) 2
- Tubing PEEK Red, 1/16" OD X 0.005" ID X 31.5 in (CTS-21172) 1

MASS SPEC



MODEL: API 3000, API 4000, API 5000
CTS-21444
OEM 1003712
Air Intake Filter-Yellow



MODEL: API 3200
CTS-21572
OEM 1007740
Air Intake Filter



MODEL: API 4600, API 5600
CTS-21573
OEM 1032854
Air Intake Filter, 4600/5600 Systems



MODEL: 4500, 5500, 6500
CTS-21459
OEM 1027708
Air Intake Filter, 4/pk



MODEL: API 4500, API 5500, API 6500
CTS-21568 **KIT**
OEM 5054105
PM Kit (4500, 5500, 6500)

- Air Intake Filter, 4/pk (CTS-21459) 1
- PEEK Tubing-Red 1/6" OD X .005" ID X 19.685 (CTS-21592) 1
- Label, Field Service-Sciencix (CTS- 21447) 1
- Fingertight One Piece 10-32 PEEK Male Nut/Ferrule for 1/16" OD Tubing (CTS-1818) 2
- 1/16" Short Hex PEEK Fitting (CTS-21134) 1
- 1/16" Union for TIS Probe and APCI (CTS-21137) 1
- O-Ring (3/16" ID X 1/16", Viton) (CTS-21173) 1
- Spring, Turbo V Source (CTS-21189) 1
- O-Ring Viton Brown .208 ID X .070" Thick (CTS-21523) 2
- O-Ring .750" ID X .093" Thickness (CTS-21569) 2
- Anti-Static Foam Swab-White Large Square Tip 6" (CTS-21595) 1
- TIS Capillary Electrode (33-1034) 1
- Anti-Static Foam Swab-Blue Small Round Tip 6.25" (CTS-21590) 1



MODEL: API 4000, API 5000, 4000 QTRAP
CTS- 21445 **KIT**
OEM 028447
PM Kit, 4000 QTRAP, API 4000, API 5000

- O-Ring Viton Brown .208 ID X .070" Thick (CTS-21523) 2
- PEEK Tubing-Red 1/6" OD X .005" ID X 19.685" (CTS-21592) 1
- Anti-Static Foam Swab-Blue Small Round Tip 6.25" (CTS-21590) 1
- Anti-Static Foam Swab-White Large Square Tip 6" (CTS-21595) 1
- Label, Field Service-Sciencix (CTS-21447) 1
- Air Intake Filter-Yellow (CTS-21444) 1
- Spring, Turbo V Source (CTS-21189) 1
- O-Ring (3/16" ID X 1/16", Viton) (CTS-21173) 1
- 1/16" Union for TIS Probe and APCI (CTS-21137) 1
- 1/16" Short Hex PEEK Fitting (CTS-21134) 1
- Fingertight One Piece 10-32 PEEK Male Nut/Ferrule for 1/16" OD Tubing (CTS-1818) 2
- TIS Capillary Electrode (33-1034) 1

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



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-20A/C
CTS-21015
OEM 228-16000-17,
Old# 228-16000-10,
228-16000-84
Ferrule, 1/16", SS, 3/pk



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

PUMP PARTS



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-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



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-20AR,
LC-20AT, LC-30AD, LC-40,
i-Series
CTS-21352
OEM 228-45708-91,
Old # 228-39181-95, 228-12491-91,
228-45708-93
Suction Filter Assembly, SS



MODEL: LC-20AD
CTS-21045
OEM 228-45590-91
SUS Tubing A



MODEL: LC-20AD
CTS-21044
OEM 228-45590-92
SUS Tubing B

PUMP PARTS



MODEL: LC-10ADvp,
LC-10ATvp
CTS-A121
OEM 228-34976-91
Outlet 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
CTS-21147
OEM 228-48249-42
Old# 228-45704-92
Inlet Check Valve



MODEL: LC-20AD/AB,
LC-20ADXR, LC-20AT,
LC-30ADSF, i-Series
CTS-21145
OEM 228-48249-96,
Old# 228-48249-91,
228-45704-91, 228-45557-91
Inlet Check Valve



MODEL: LC-30AD
CTS-21526
OEM 228-54852-00
Jig, Diaphragm



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



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



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-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



MODEL: LC-2030,
LC-2030C, LC-2030C 3D,
Prominence-i
CTS-21729
OEM 228-59372-46
Performance
Maintenance Kit **KIT**
• Suction Filter, Stainless Improved (CTS-A11316) 5
• Line Filter Assembly (CTS-A11421) 1
• Plunger Seal (CTS-10693) 2
• Needle Seal, PEEK (CTS-21527)

AUTOSAMPLER



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



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



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



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



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



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



MODEL: SIL-30AC,
SIL-30ACMP
11-4179
OEM 228-52139-00
HPV Rotor, SIL-30AC,
SIL-30ACMP



MODEL: SIL-30AC,
SIL-30ACMP
11-4052
OEM 228-52253-00
Needle Seal, SIL-30AC,
SIL-30ACMP



MODEL: SIL-30AC,
SIL-30ACMP
11-4180
OEM 228-51922-00
LPV Rotor, SIL-30AC,
SIL-30ACMP



MODEL : SIL-30AC
CTS-21089
OEM 228-57729-41
Needle Seal, (For pH
1-14, for operation up
to 130 MPa)



MODEL: SIL-20A/AC,
SIL-30AC/ACMP, i-Series
CTS-21690
OEM 228-48331-92
Rinse Port Cap (w/hole),
10/pk

AUTOSAMPLER



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



MODEL: LC-2010,
SIL-20A/AC, SIL-20ACHT
CTS-21262
OEM 228-41024-94
Needle, Uncoated
20 Series



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: SIL-20A/C,
SIL-20A/CXR
CTS-21263
OEM 228-41024-93
Pt Coated Needle,
20 Series



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: SIL-30AC,
SIL-30ACMP
CTS-21264
OEM 228-41024-96
Uncoated Needle Kit



MODEL: LC-2010
CTS-21564
OEM 228-41024-91
Needle, Uncoated 10 Series



MODEL: SIL-30AC
CTS-21422 **KIT**
OEM 228-52401-92
Needle Seal Kit



MODEL: SIL-30AC,
SIL-30ACMP
CTS-21261
OEM 228-41024-95
Pt Coated Needle,
30 Series



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)



MODEL: SPD-M10Avp,
SPD-M20A
CTS-21694
OEM 228-34016-00
Deuterium Lamp,
SPD-M10Avp/M20A
(2000hr)

PUMP PARTS



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



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



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



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



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



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



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



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



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



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



MODEL: Ultimate 3000
Series
CTS-21406
OEM 6820.0037
Peristaltic Pump
Cartridge, WPS/AC

PUMP PARTS



MODEL: ISO-3100A

CTS- 21407 **KIT**
 OEM 6035.1950

Performance Maintenance Kit, U3000 Pump

- Piston Seal Ring Kit (CTS-21402) 2
- Disk Filter (CTS-21298) 1
- Check Valve (CTS-21313) 1
- Or-Ring, PTFE CTS-21305 2
- O-Ring, Silicone CTS-213042 1
- Purge cap (CTS-21294 1
- Tubing, Pharmed, 1/16" ID X 1/8" OD (51108) 1
- Tubing, Silicone (51109) 1
- Monojet 412 Syringe (CTS-21400) 1
- Ring Filter (CTS-21299) 1



MODEL: ISO-3100SD, ISO-3100BM ,HPG-3200SD, HPG-3200RS, HPG-3200BX, HPG-3400SD, HPG-3400RS, LPG-3400SD(N), LPG-3400RS, LPG-3400XRS, DGP-3600SD(N), DGP-3600RS

CTS- 21628 **KIT**
 OEM 6040.9502

Peristaltic Pump Tube Kit, 2G

AUTOSAMPLER



MODEL: 8800

CTS-10517
 OEM 3301-0100

Syringe, 500µL



MODEL: AS100, AS300, AS1000, AS3000, AS3500, 8800, 8875, 8880

CTS-A083
 OEM 2508-0360

Rotor Seal, Vespel



MODEL: AS100, AS300, AS1000, AS3000, AS3500, 8875, 8880

CTS-A096
 OEM A3588-020

Syringe Assembly, 250µL



MODEL: AS100, AS300, AS1000, AS3000, AS3500, 8800, 8875, 8880

CTS-10612
 OEM 7010-015

Isolation Seal, Rheodyne 7010

AUTOSAMPLER



MODEL: WPS-3000

11-3332
 OEM 6822.0002

100µL Syringe for WPS-3000 Series



MODEL: Ultimate 3000 series, DGP-3600BM, DGP-3600RS, DGP-3600SD, HPG-3200RS, HPG-3200SD, HPG-3400RS, HPG-3400SD, ISO-3100BM, ISO-3100SD, LGP-3400BM, LPG-3400RS, LPG-3400SD, NCS-3500RS, NCP-3200RS, VF-P20

CTS-21480
 OEM 6041.2301

Valve Cartridge



MODEL: ICS-1000, ICS-1100, ICS-1500, ICS-1600, ICS-2000, ICS-2100, ICS-3000 DC, ICS-5000 DC, ICS-6000 DC

11-2654
 OEM 075973

Rebuild Kit, VLV, 6-Port, 6K

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

DETECTOR LAMPS



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



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)

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

PUMP PARTS

MODEL: 510, 515, 590, 600, 610, 1515, 1525



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



MODEL: 510, 590, 600, 610,
 1515, 1525
 CTS-5656
 OEM WAT025656, WAT069511
 Sapphire Plunger



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



MODEL: 510, 515, 590, 600,
 610, 1515, 1525
 CTS-1042
 OEM WAT011042
 Plunger Insertion Tool



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

VICI/VALCO

AUTOSAMPLER



MODEL: C2V
 CTS-21164
 OEM C2-10R6
 Rotor Seal, 6 Port, Rear



MODEL: C2V
 CTS-21085
 OEM C2-10R6-COH
 Rotor Seal, 6 Port, -COH



MODEL: C2V/C3V
 CTS-21171
 OEM C2-20R6
 Rotor, H-Assy, 6 Port
 2-Position

PUMP PARTS

PUMP PARTS

MODEL: 510, 515, 590, 600, 610, 1515, 1525

MODEL: 510, 515, 590, 600, 610, 1515, 1525, 1525EF, 1525 MICRO



MODEL: 600, 610
CTS-10985 **KIT**
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



MODEL: 515
CTS-11010 **KIT**
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-10275) 1
- Plunger Seal (CTS-2294) 2
- Sparge Diffuser (CTS-10984) 1



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

- Sapphire Plunger (CTS-10475-1) 1
- 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 **KIT**
OEM 201000114
1525 Performance Maintenance Kit

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



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



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



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



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



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



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



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



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



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



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



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



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

PUMP PARTS

MODEL: 510, 515, 590, 600, 610, 1515, 1525, 1525EF, 1525 MICRO



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: 510, 515, 590, 600,
610, 1515, 1525, 1525 MICRO
CTS-5559
OEM WAT025559
Priming Syringe Needle



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



MODEL: 500, 515, 600,
1515, 1525, 1525EF,
1525 MICRO
CTS-5746 **KIT**
OEM WAT025746
Reference Valve
Rebuild Kit
• Button, Reference Valve 1
• Spacer, Valve Disk 1
• Diaphragm, Reference Valve 1



MODEL: 510
CTS-0012 **KIT**
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

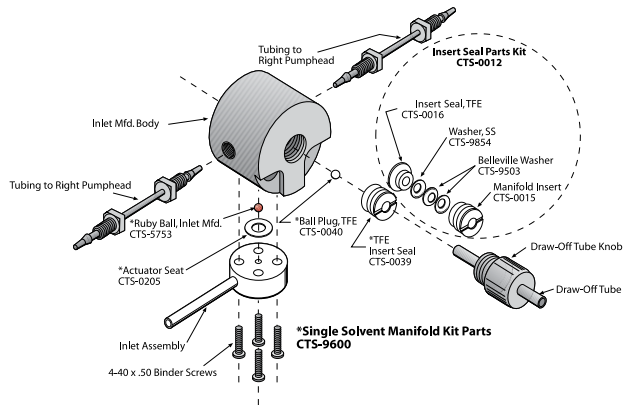


MODEL: 510
CTS-1106
OEM WAT010106
Inlet Tube Assembly
w/Ball & Seat



MODEL: 510, 515, 590, 600,
610
CTS-9600 **KIT**
OEM WAT060448
Inlet Manifold Kit
• Insert Seal Parts Kit, (CTS-0012)
• Ball, Plug, TFE (CTS-0040)1
• Inlet Tube Assembly w/Ball & Seat
(CTS-1106) 1

SINGLE SOLVENT MANIFOLD



PUMP PARTS

MODEL: 616, 625, 626, 1525 MICRO



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



MODEL: 510, 515, 600, 610,
1515, 1525, 1525 Micro,
1525EF, 2535, 2545, 2555,
2690, 2690D, 2695, 2695D,
2700, ACQUITY UPLC BSM
CTS-5531-05
OEM 289003536
Solvent Bottle Filter, 5/pk



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.

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, 600, 717
CTS-10527
OEM WAT035190, Old# WAT084561
Precolumn Filter Assembly



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
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
CTS-10919
OEM WAT088084
2µm Precolumn Filter Insert



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



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

PUMP PARTS

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



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



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, 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



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



MODEL: 2795, 2695D, 2695, 2690, 1525, 1515, 610, 600, 525, 515, 510
CTS-21463
OEM 700002761
Check Valve Cartridge, Ceramic, 2/pk



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795
CTS-11080 KIT
OEM 700004073
Alliance Solvent Manager Performance Maintenance Kit

- Sapphire Plunger (CTS-10476) 1
- 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

PUMP PARTS & AUTOSAMPLER

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

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



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 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: 2690, 2690D, 2695, 2695D, 2790, 2795, 717
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: 2690, 2690D, 2695, 2695D
11-1239
OEM WAT005063
Ferrule, 1/16", SS, 10/pk



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



MODEL: 2690, 2690D, 2695, 2695D, 2790, 2795, 717
CTS-21012 **KIT**
OEM WAT025604
Compression Screws & Ferrules, 5/pk
• Ferrule, SS (CTS-2330) 5
• Compression Screw, 1/16", SS (CTS-5313) 5



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



MODEL: 2690, 2690D, 2695, 2695D
CTS-10988 **KIT**
OEM WAT270944
2690/2695 Performance Maintenance Kit
• Sapphire Plunger (CTS-10426) 1
• 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
• Sparge 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) 1
• Filter Retainer (CTS-10783) 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) 1
• Ferrule, SS (CTS-2330) 1
• Compression Screw, 1/16", SS (CTS-5313) 1



MODEL: 2690, 2690D, 2695, 2695D
CTS-11380 **KIT**
2690/2695 Performance Maintenance Kit w/Seal Pack
• Sapphire Plunger (CTS-10426) 1
• 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
• Sparge Diffuser (CTS-10984) 1
• Face Seal, 4/pk (CTS-10989) 1
• Seal Pack Assembly Kit (CTS-11222) 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, 717 Plus, 2690, 2690D, 2695, 2695D, 2790, 2795, 2796, ALLIANCE



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



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



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



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



MODEL: 2690, 2695, 2690D and 2695D
CTS-A047
OEM 700002760, WAT033276
Gold Injector Seal, 2/pk



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

AUTOSAMPLER

MODEL: 717, 717 plus, 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: 717, 717 PLUS, 2690, 2690D, 2695, 2695D
CTS-7550
OEM 700001247, Old# WAT075507, WAT077233
Performance Autosampler Needle



MODEL: 717, 717 PLUS, 2690, 2690D, 2695, 2695D
CTS-10761 **KIT**
OEM WAT045424
HPMV 1 & 2 Rebuild Kit w/Spool
• O-Ring, TFE (CTS-1010T) 1
• HPMV Gold Seals, 2/pk (CTS-10692) 1
• Spool Assembly (CTS-A155) 1
• Bullet, Seal Insertion (CTS-110281)



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



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



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



MODEL: 2690, 2690D, 2695, 2695D
CTS-10839 **KIT**
OEM WAT271019
Seal Pack Rebuild Kit
• Wash Tube Seal (CTS-10598) • TFE Washer (CTS-7321) 1
• Tube, Seal Wash (CTS-10739) • Needle Assembly (CTS-7550) 1
• PTFE Washer (CTS-10741-01) • Gold Injector Seal (CTS-A047) 1
• Filter Retainer (CTS-10785) 1 • Ferrule, SS (CTS-2330) 1
• Lower Wash Seal Frit (CTS-10788) • Compression Screw, 1/16" SS 1
• Needle Wash Frit (CTS-2324) (CTS-5313)

AUTOSAMPLER

MODEL: 717, 717 plus, 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
CTS-10324S
OEM WAT045559
Seal Pack w/Needle



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



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



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

PUMP PARTS

MODEL: ACQUITY, nano ACQUITY, H-CLASS, I-CLASS, M-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 BIO QSM, ACQUITY H-CLASS QSM, 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-11093-02
OEM 700002600
Plunger, 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 M-CLASS µASM, ACQUITY M-CLASS µBSM
CTS-21095
OEM 700009839
Seal Wash (0.0787 ID, Fixed, Bio) 2/pk



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)		• 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)		• Tube Assembly, Transducer to Check Valve (CTS-A11133)	2
• Filter, Air, Pump Handle (CTS-11115)	1	• 50µL 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)		• 50µL Std. Zirconia Mixer (CTS-A11135)	1
• UPLC Check Valves, Double Ball & Seat, 2/pk (CTS-A11095-02)		• 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)	
• 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)			

PUMP PARTS

PUMP PARTS

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

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



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



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



MODEL: ACQUITY H-CLASS QSM, 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-11092
OEM WAT076152
O-Ring, PTFE



MODEL: ACQUITY H-CLASS Bio QSM, ACQUITY M-CLASS μASM, ACQUITY M-CLASS μBSM
CTS-21192
OEM 700005414
Cartridge, BioACQUITY, I2V



MODEL: ACQUITY I-CLASS BSM, ACQUITY ISM
11-4181
OEM 700006048
Seal Wash (0.0787 ID, Fixed) 2/pk



MODEL: ACQUITY UPLC HIGH TEMPERATURE COLUMN HEATER, ACQUITY UPLC COLUMN HEATER MODULE, ACQUITY UPLC COLUMN HEATER/COLER, ACQUITY UPLC COLUMN MGR
11-2414
OEM 700003114
PEEK Ferrule, 1/16", 10/pk



MODEL: ACQUITY H-CLASS, ACQUITY APC pISM
CTS-21196
OEM 205000731
ACQUITY H-Class Filter Assy, 22μL



MODEL: ACQUITY ISM
CTS-21100
OEM 289001771
UPLC Check Valve Assy,



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 BIO QSM, ACQUITY M-CLASS μBSM, ACQUITY M-CLASS ASM.
CTS-21129
OEM 700005415
Check Valve, TI



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



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



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



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



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
- Check Valve, Double Ball & Seat (CTS-A11095) 1
- Head Plunger Seal, 2/pk (CTS-11119-02) 1
- Wash Seal, 2/pk (CTS-11121-02) 1
- Cartridge, Intelligent Valve (CTS-A11336) 1
- Filter, GPV, 4/pk (CTS-A11344) 1
- Filter, Air, Door (CTS-11370) 1
- Mixer Assembly, 100μL (CTS-A11376) 1
- Solvent Reservoir Filter (CTS-5531) 5



MODEL: ACQUITY ISM
CTS-21692 **KIT**
OEM 201000286

ACQUITY H-Class QSM Performance Maintenance Kit

- SS Filter Frit Replacement Cartridge (CTS-11415) 1
- ACQUITY H-Class Filter Assy, 22μL (CTS-21196) 1
- UPLC Check Valve Assy, Spring Loaded (CTS-21100) 1
- Plunger, 2/pk (CTS-11093-02) 1
- O-Ring, PTFE (CTS-11092) 1
- Seal Wash (0.0787 ID, Fixed) 2/pk (11-4181) 1
- Head Plunger Seal, 2/pk (CTS-11119-02) 1
- Tubing, Teflon (CTS-21138) 1
- Check Valve, Double Ball & Seat (CTS-A11095) 1
- Solvent Filter, 10μm (CTS-21256) 1
- Filter, Air, Door (CTS-11370) 1

PUMP PARTS

PUMP PARTS

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

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



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



MODEL: ACQUITY ISM
CTS-21256
OEM 289009874
Solvent Filter, 10µm



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 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: 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 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 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



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 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: I-CLASS BSM
CTS-21075
OEM 430002901
Assy, Tubing, BSM Outlet to SM



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

AUTOSAMPLER

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



MODEL: ACQUITY UPLC SAMPLE MGR, nanoACQUITY UPLC SAMPLE MGR, ACQUITY UPLC I-CLASS
CTS-21471
OEM 430001325
Sample Loop, 50µL



MODEL: ACQUITY I-CLASS SM-FTN
CTS-21240 **KIT**
OEM 289006464, 201000259
Performance Maintenance Kit Injector Valve Cartridge (289006464) not included Rotor Seal & Pod Repair Kit Included



MODEL: ACQUITY UPLC SAMPLE MGR
CTS-A11151
OEM 700002644
Needle Assembly, PEEK



MODEL: ACQUITY UPLC SAMPLE MGR, nanoACQUITY UPLC SAMPLE MGR
CTS-A11381
OEM 205000362
Needle, SS, 30µL



MODEL: ACQUITY UPLC SAMPLE MGR, nanoACQUITY UPLC SAMPLE MGR
CTS-11149
OEM 700002572
Needle Seal O-Ring, 002 Kalrez



MODEL: ACQUITY UPLC SAMPLE MGR
CTS-12015 **KIT**
OEM ACQUITY Everflow Injector Pod/Cartridge (289006464)
Rotor Seal & Pod Repair Kit, Vespel, 3-Groove, 3 pin for ACQUITY Everflow Injector Pod/Cartridge



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



MODEL: ACQUITY UPLC SAMPLE MGR
CTS-11141 **KIT**
OEM 201000174
ACQUITY SM Performance Maintenance Kit
Injector Valve Cartridge (700 005236) not included
Rotor Seal & Pod Repair Kit included

• 2.5mL Wash Syringe (11-3595)	• Tube Assy, System Outlet, SDS (CTS-A11145)	1
• Rotor Seal & Pod Repair Kit, Vespel 3-Groove for ACQUITY Everflow	• Sample Loop, 10µL (CTS-A11147)	1
• Injector Pod/Cartridge (700002765)	• Needle Assembly, PEEK (11-4134)	1
• Needle Seal O-Ring, 002 Kalrez (CTS-A11151)	• 100µL Sample Metering Syringe, HP (CTS-11149)	1
• Filter, Air Chassis (CTS-11150)	• Tube Assy, Inject Outlet (CTS-A11142)	1

AUTOSAMPLER

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



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



MODEL: ACQUITY UPLC SAMPLE MGR
CTS-A11142
OEM 430001084
Tube Assy, Inject Outlet



MODEL: ACQUITY UPLC SAMPLE MGR, ACQUITY H-CLASS BIO SM-FTN, ACQUITY H-CLASS SM-FTN, ACQUITY I-CLASS SM-FTN
CTS-21469
OEM 410001347
250µL Syringe, High Pressure

AUTOSAMPLER

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



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



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



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 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 I-CLASS SM-FTN
CTS-21287 **KIT**
OEM 700008977
Needle Kit, 15µL with Needle Seat and Needle Guide 18KPSI



MODEL: ACQUITY H-CLASS
11-3602
OEM 430002452
Tubing, Pump Outlet, GP



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



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



MODEL: ACQUITY H-CLASS SM-FTN
11-3601 **KIT**
OEM 201000234
ACQUITY H-Class SM-FTN Performance Maintenance Kit
Injector Valve Cartridge (700005236) not included
Rotor Seal & Pod Repair Kit included

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

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 H-Class Bio SM-FTN, ACQUITY I-CLASS BSM, ACQUITY UPLC BSM, Open Architecture UPLC, nanoACQUITY UPLC SM
CTS-21243
OEM 410001349
1/16" Ferrule Set, 2/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

DETECTOR LAMPS

MODEL: ACQUITY, nano 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)



MODEL: ACQUITY UPC² PDA, ACQUITY UPLC PDA, ACQUITY UPLC TUV
11-4169
OEM 700005269
Deuterium Lamp, High Brightness w/Intelligent Chip (2000 hr)



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



MODEL: ACQUITY eLambda PDA, ACQUITY UPLC PDA, ACQUITY UPLC TUV
CTS-21065
OEM 201000273
Deuterium Lamp, PDA/TUV w/Intelligent Chip (2000 hr)



MODEL: ACQUITY Arc, ACQUITY UPLC PDA, 2998 PDA, 2489 UV/Vis
CTS-21280
OEM 700009330
Lamp, ACQUITY Arc/UPLC PDA Performance Maintenance Kit (2000hr)

DETECTOR LAMPS

MODEL: 486, 996, 2487, 2488, 2996



MODEL: 486
CTS-8068
OEM WAT080687
Quartz Lens



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



MODEL: 486
CTS-10328
OEM WAT080244
Optics Cover Window



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



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



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

DETECTOR LAMPS

AGILENT



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



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



MODEL: 1100, 1200 DAD,
G1315A/B, G1365A/B
CTS-10473
OEM 2140-0590
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: 1100, 1120, 1200
VWD, 1220 VWD, G1314A,
G1314B, G1314C
CTS-10494
OEM G1314-60100
Long Life Deuterium Lamp
(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: G1314D, G1314E,
G1314F, G7114A/B
11-4111
OEM G1314-60101
Long Life HiS Deuterium
Lamp, RFID, VWD (2000 hr)



MODEL: 1100, 1200, 1220,
1260, G1315A/B, G1365A/B
CTS-A11218
OEM 2140-0813
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: 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)

DETECTOR LAMPS

PERKINELMER



MODEL: 5, 7, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 25, 35, 40, 45, 800, 850, 900, 950, 1050, Bio 19, and Lambda 2 UV/Vis
CTS-10854
OEM Old B0160917, L6022728
Deuterium Lamp (1500 hr)



MODEL: 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 25, 35, 40, 45, 550, 551, 552, 552A, 553, 559, 559A, 800, 850, 900, 950, 1050, Lambda 2, Lambda Bio, and LC-480 PDA Spectrometers
11-3343
OEM B0114620
Tungsten Lamp



MODEL: 200 Series, 785A UV/Vis
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)



MODEL: SPD-M10Avp, SPD-M20A
CTS-21694
OEM 228-34016-00
Deuterium Lamp (2000 hr)

THERMO /DIONEX



MODEL: DSA-1, VDM-1, 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

DETECTOR LAMPS

WATERS



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



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



MODEL: ACQUITY UPC 2 PDA, ACQUITY UPLC PDA, ACQUITY UPLC TUV
11-4169
OEM 700005269
Deuterium Lamp, High Brightness w/Intelligent Chip (2000 hr)



MODEL: ACQUITY eLambda PDA, ACQUITY UPLC PDA, ACQUITY UPLC TUV
CTS-21065
OEM 201000273
Deuterium Lamp, PDA/TUV w/Intelligent Chip (2000 hr)



MODEL: ACQUITY Arc, ACQUITY UPLC PDA, 2998 PDA, 2489 UV/Vis
CTS-21280
OEM 700009330
Lamp, ACQUITY Arc/UPLC PDA Performance Maintenance Kit (2000hr)

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-1042
OEM WAT011042
Plunger Insertion Tool



11-2585
Tubing Cutter for Polymeric
3/16" to 5/16" OD Tubing

FILTERS, FITTINGS & TUBING

MOBILE PHASE SOLVENT FILTERS & FEP TUBING



CTS-A11259
OEM 01018-60025
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
OEM WAT025531
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

FILTERS, FITTINGS & TUBING

MOBILE PHASE SOLVENT FILTERS & FEP TUBING



11-1422
Solvent Filter 10µm SS with 1/4-28
Nut/Ferrule for 3mm OD Tubing



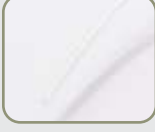
11-1888
Adapter ETFE with 1/4-28 Female Port
for use with CTS-10843 (adapts glass
filter for use with Mobile Phase tubing
1mm to 1/8" OD)



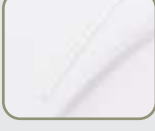
CTS-10843
OEM 5041-2168
Glass Solvent Filter



11-1117
Tubing FEP 1/16" OD x 0.020" ID x 10ft



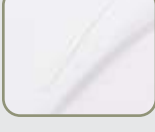
11-1118
Tubing FEP 1/16" OD x 0.020" ID x 20ft



11-1119
Tubing FEP 1/16" OD x 0.020" ID x 50ft



11-2559
Tubing FEP 1/16" OD x 0.030" ID x 10ft



11-1107
Tubing FEP 1/8" OD x 1/16" ID x 10ft



11-1108
Tubing FEP 1/8" OD x 1/16" ID x 20ft



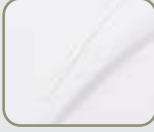
11-1109
Tubing FEP 1/8" OD x 1/16" ID x 50ft



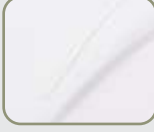
11-1127
Tubing FEP 3mm OD x 2mm ID x 3m



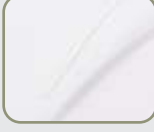
11-1128
Tubing FEP 3mm OD x 2mm ID x 6m



11-1129
Tubing FEP 3mm OD x 2mm ID x 15m



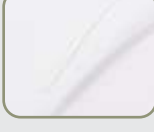
11-1112
Tubing FEP 3/16" OD x 1/8" ID x 10ft



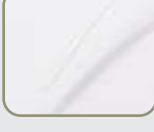
11-1113
Tubing FEP 3/16" OD x 1/8" ID x 20ft



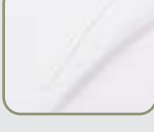
11-1114
Tubing FEP 3/16" OD x 1/8" ID x 50ft



11-1122
Tubing FEP 1/4" OD x 0.188" ID x 10ft



11-1123
Tubing FEP 1/4" OD x 0.188" ID x 20ft



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
	11-2629	Ferrule 303 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		
	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 Male Nut/Ferrule for 1/16" Tubing, 10/pk
Fingertight Two-Piece Nut/Sealtight Ferrules		
	Part No.	Description
	11-1269	Ferrule Sealtight PEEK for 1/16" OD Tubing, 10/pk
Fingertight Two-Piece Nut/Ferrules		
	Part No.	Description
	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 Male Nut/Split Ferrule 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 solution. 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!

ACKNOWLEDGMENTS

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