



# Sciencix



2016

# HPLC Product Catalog



**CTS**

## 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). Orders placed after 2 p.m.  
will be processed the next business day.

### BY FAX

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

### BY E-MAIL

[sales@sciencix.com](mailto:sales@sciencix.com)

### BY MAIL

Sciencix  
P. O. Box 1336  
Burnsville, MN 55337-0336

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 EDI

D. I. Central

### BY CREDIT CARD

Visa, MasterCard, American Express

### BY WEBSITE

[www.sciencix.com](http://www.sciencix.com)

### TERMS

Various payment options available. Please contact customer service or  
your sales representative 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 or better than 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 Service 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 Authorization (RA) number and then  
ship a replacement or credit your account.

### SHIP RETURNS TO

Sciencix  
14261 W. Burnsville Parkway  
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” or better than 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 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 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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| 700001247                                  | CTS-7550      | 42     | WAT025313 | CTS-5313      | 34,39 | WAT270939 | CTS-10989  | 38    |
| 700001318                                  | CTS-10788-5   | 42     | WAT025464 | CTS-5464      | 33    | WAT270940 | CTS-10597  | 38    |
| 700002332                                  | CTS-A11431-02 | 39     | WAT025531 | CTS-5531      | 37,39 | WAT270941 | CTS-A094   | 39    |
| 700002399                                  | 11-2401       | 31,38  | WAT025559 | CTS-5559      | 34    | WAT270942 | CTS-11029  | 42    |
| 700002569                                  | 11-3595       | 49     | WAT025656 | CTS-5656      | 33    | WAT270944 | CTS-10988  | 40    |
| 700002570                                  | CTS-A11167    | 49     | WAT025669 | CTS-5669      | 33    | WAT270959 | CTS-10476  | 38    |
| 700002572                                  | CTS-11149     | 49     | WAT025746 | CTS-5746      | 35    | WAT271017 | CTS-10532  | 38    |
| 700002596                                  | CTS-A11094-02 | 46     | WAT025893 | CTS-A087      | 41    | WAT271018 | CTS-10560  | 38    |
| 700002598                                  | CTS-11121-02  | 44     | WAT026014 | CTS-0310      | 32    | WAT271019 | CTS-10839  | 42    |
|                                            |               |        | WAT026016 | CTS-0210      | 31    | WAT271066 | CTS-10711  | 38    |
|                                            |               |        | WAT026613 | CTS-6613      | 32    | WAT271067 | CTS-10476  | 38    |
|                                            |               |        | WAT026644 | CTS-10832     | 33    |           |            |       |
|                                            |               |        | WAT026644 | CTS-6644      | 32    |           |            |       |

## PUMP PARTS

**MODEL:** 1260, 1290



MODEL: 1260, 1050,  
1100, 1200, 1220

**CTS-10303**  
OEM 5063-6586

**Sapphire Plunger**  
each \$98.94



MODEL: 1260, 1050,  
1100, 1200, 1220

**CTS-10417**  
OEM 5063-6589

**Black Piston Seals, 2/pk**  
\$70.00



MODEL: 1260, 1050,  
1100, 1200, 1220

**CTS-11088**  
OEM 0905-1420

**Gold Piston Seals, 2/pk**  
\$70.01



MODEL: 1260, 1050,  
1100, 1200, 1220

**CTS-A11454**  
OEM 5067-4728

**Seal Cap Assembly**  
each \$25.50



MODEL: 1260, 1290, 1050,  
1090, 1100, 1200, 1220

**CTS-10843**  
OEM 5041-2168

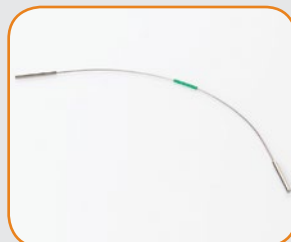
**Glass Solvent Filter**  
each \$33.66



MODEL: 1260, 1100, 1200

**CTS-11456**  
OEM 5021-1816

**Capillary, 105mm x  
0.17mm ID**  
each \$33.00



MODEL: 1260, 1100, 1200

**CTS-11457**  
OEM 5021-1817

**Capillary, 150mm x  
0.17mm ID**  
each \$33.00



MODEL: 1260, 1100, 1200

**CTS-11458**  
OEM 5021-1818

**Capillary, 280mm x  
0.17mm ID**  
each \$33.00



MODEL: 1260, 1100, 1200

**CTS-11459**  
OEM 5021-1819

**Capillary, 400mm x  
0.17mm ID**  
each \$33.00



MODEL: 1260, 1100,  
1200, G1312

**CTS-A11456**  
OEM G1312-87306

**Assy, Capillary, 105mm x  
0.17mm ID, w/Fittings**  
each \$56.00



MODEL: 1260, 1100,  
1200, G1312

**CTS-A11459**  
OEM G1312-87303

**Assy, Capillary, 400mm x  
0.17mm ID, w/Fittings**  
each \$56.00

## AUTOSAMPLER

**MODEL:** 1260, 1290



MODEL: 1260, 1100,  
1200, 1220

**CTS-10835**  
OEM G1313-87201

**Needle Assembly**  
each \$52.89



MODEL: 1260, 1100, 1200,  
1220, G1313A, G1329A/B

**11-2605**  
OEM G1329-87017

**Needle Seat, Std.,  
PEEK™, 0.17mm ID**  
each \$139.54



MODEL: 1290

**11-2312**  
OEM 5068-0007

**2 Position/6 Port  
Rotor Seal (1200 bar)**  
each \$500.00

## DETECTOR LAMPS

**MODEL:** 1260



MODEL: 1260, 1100, 1200,  
1220, G1315A/B, G1365A/B

**CTS-A11218**  
OEM 2140-0813

**Long Life Deuterium Lamp  
(2000 hr)**  
each \$757.25

## PUMP PARTS

**MODEL:** 1100, 1200



MODEL: 1100, 1200,  
1220, 1260, 1050

**CTS-10303**  
OEM 5063-6586

**Sapphire Plunger**  
each \$98.94



MODEL: 1100, 1200,  
1220, 1260, 1050

**CTS-10417**  
OEM 5063-6589

**Black Piston Seals, 2/pk**  
\$70.00



MODEL: 1100, 1200,  
1220, 1260, 1050

**CTS-11088**  
OEM 0905-1420

**Gold Piston Seals, 2/pk**  
\$70.01



MODEL: 1100, 1200,  
1220, 1260, 1050

**CTS-A11454**  
OEM 5067-4728

**Seal Cap Assembly**  
each \$25.50



MODEL: 1100,  
1200, 1050

**CTS-10675**  
OEM 0905-1175

**Wash Seal**  
each \$43.75



MODEL: 1100,  
1200, 1050

**11-3321**  
OEM 5062-2484

**Wash Seal Gasket, 6/pk**  
\$28.56

## 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)**  
each \$165.00



MODEL: 1100, 1200

**CTS-A162**  
OEM G1312-60012

**Outlet Ball Valve, (400 bar) Binary Pump**  
each \$274.00



MODEL: 1100, 1200, 1050

**CTS-10674**  
OEM G1311-60012

**Outlet Ball Valve**  
each \$246.84



MODEL: 1100, 1200

**CTS-10807**  
OEM 5063-6505

**Outlet Valve Sieves, 10/pk**  
\$15.22



MODEL: 1100, 1200, 1050

**CTS-10683**  
OEM 01018-22707

**PTFE Frits, 5/pk**  
\$24.48



MODEL: 1100, 1200, 1220, 1260, 1290, 1050, 1090

**CTS-10843**  
OEM 5041-2168

**Glass Solvent Filter**  
each \$33.66



MODEL: 1100, 1200, 1050, 1090

**CTS-A11259**  
OEM 01018-60025

**Solvent Inlet Filter, SS**  
each \$77.78



MODEL: 1100, 1200, 1220, 1050, 1090

**11-1240**  
OEM 5063-6591

**Nut, PEEK™ Fingertight 1/16", 10/pk**  
\$33.66



MODEL: 1100, 1200, 1050

**CTS-10800 KIT**

**Seal Wash Kit, Binary Pump**  
\$157.08

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



MODEL: 1100, 1200, 1050

**CTS-10814 KIT**

OEM G1310-68731

**Seal Wash Kit**  
\$89.76

- Seals (CTS-10675) 2
- Gaskets (CTS-10812) 2



MODEL: 1100, 1200, 1050, 1090

**CTS-11016 KIT**

OEM 5062-2418

**Swagelok® Style Compression Fitting Kit, 10/pk**  
\$122.40

- Nut 10
- Front Ferrule 10
- Back Ferrule 10



MODEL: 1100, 1200

**CTS-11284 KIT**

OEM 5065-4499

**Extended Isocratic Pump PM Kit**  
\$684.05

- 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



## PUMP PARTS

MODEL: 1100, 1200



MODEL: 1100, 1200

**CTS-11285 KIT**

OEM G1312-68730

**Binary Pump PM Kit**

\$258.57

- 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/  
Quaternary Pump**

\$148.92

- Black Piston Seals, 2/pk (CTS-10417) 1
- PTFE Frits (CTS-10712) 2
- Seal Cap Assembly (CTS-A11454) 2



MODEL: 1100, 1200, 1260

**CTS-11456**

OEM 5021-1816

**Capillary, 105mm x  
0.17mm ID**

each \$33.00



MODEL: 1100, 1200, 1260

**CTS-11457**

OEM 5021-1817

**Capillary, 150mm x  
0.17mm ID**

each \$33.00



MODEL: 1100, 1200, 1260

**CTS-11458**

OEM 5021-1818

**Capillary, 280mm x  
0.17mm ID**

each \$33.00



MODEL: 1100, 1200, 1260

**CTS-11459**

OEM 5021-1819

**Capillary, 400mm x  
0.17mm ID**

each \$33.00


MODEL: 1100, 1200,  
1260, G1312

**CTS-A11456**

OEM G1312-87306

**Assy, Capillary, 105mm x  
0.17mm ID, w/Fittings**

each \$56.00


MODEL: 1100, 1200,  
1260, G1312

**CTS-A11459**

OEM G1312-87303

**Assy, Capillary, 400mm x  
0.17mm ID, w/Fittings**

each \$56.00



MODEL: 1100, 1200, 1050

**CTS-10833 KIT**

OEM G1311-68710

**Pump Maintenance Kit**

\$397.80

- 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

## AUTOSAMPLER

**MODEL:** 1100, 1200



MODEL: 1100, 1200, G1313, G1327A

### **CTS-10722 KIT**

OEM G1313-68709

#### **Autosampler Preventative Maintenance Kit**

\$282.54

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



MODEL: 1100, 1200, G1313, G1327A

### **CTS-11287 KIT**

OEM 5065-4498

#### **Extended PM Kit for Standard Autosamplers**

\$448.80

- 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™, 0.17mm ID (11-2605) 1



MODEL: 1100, 1200, G1313, G1327A, G1329A

### **CTS-11283 KIT**

OEM G1313-68730

#### **PM Kit for Standard Autosamplers**

\$257.04

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



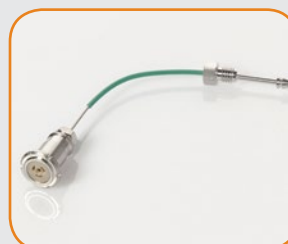
MODEL: 1100, 1200, 1220, 1260

### **CTS-10835**

OEM G1313-87201

#### **Needle Assembly**

each \$52.89



MODEL: 1100, 1200, 1220, 1260, G1313A, G1329A/B

### **11-2605**

OEM G1329-87017

#### **Needle Seat, Std., PEEK™, 0.17mm ID**

each \$139.54



MODEL: 1100, 1200

### **CTS-10459**

OEM 0100-1853

#### **Rotor Seal, Vespel®, 2-Groove, 7750-020**

each \$63.27

## AUTOSAMPLER

**MODEL:** 1100, 1200



MODEL: 1100, 1200  
**CTS-11419**  
OEM 0100-1855  
**Rotor Seal, Vespel®**  
**for p/n 0101-0921**  
each \$106.00



MODEL: 1100, 1200  
**CTS-A10678**  
OEM 0100-1851  
**Stator Face Assembly**  
**for 0101-0921 Valve**  
each \$183.60



MODEL: 1100, 1200  
**CTS-11288**  
OEM 0100-1852  
**Isolation Seal for**  
**0101-0921 Valve**  
each \$22.50



MODEL: 1100, 1200  
**CTS-11356**  
OEM G1313-87202  
**Needle, 900µL**  
each \$94.66



MODEL: 1100, 1200  
**CTS-A019**  
OEM 0101-0623  
**Manual Injection Valve**  
**Rotor Seal, Vespel®**  
each \$65.41



MODEL: 1100, 1200  
**CTS-A11329**  
OEM 0100-1859  
**Stator Face Assembly for**  
**5063-6502 Valve**  
each \$135.17

## DETECTOR LAMPS

**MODEL:** 1100, 1200



MODEL: 1100, 1200 DAD,  
G1315A/B, G1365A/B  
**CTS-10473**  
OEM 2140-0590  
**Deuterium Lamp (1000 hr)**  
each \$545.40



MODEL: 1100, 1200 VWD,  
1220 VWD, G1314A/B  
**CTS-10494**  
OEM G1314-60100  
**Long Life Deuterium Lamp**  
**(2000 hr)**  
each \$487.56



MODEL: 1100, 1200 DAD,  
G1315A/B, G1365A/B  
**CTS-10827**  
OEM 5181-1530  
**Long Life Deuterium Lamp**  
**(2000 hr)**  
each \$770.10



MODEL: 1100, 1200, 1220,  
1260, G1315A/B, G1365A/B  
**CTS-A11218**  
OEM 2140-0813  
**Long Life Deuterium Lamp**  
**(2000 hr)**  
each \$757.25

## PUMP PARTS

### MODEL: 1050



MODEL: 1050, 1100,  
1200, 1220, 1260

**CTS-10303**  
OEM 5063-6586

**Sapphire Plunger**  
each \$98.94



MODEL: 1050, 1100,  
1200, 1220, 1260

**CTS-10417**  
OEM 5063-6589

**Black Piston Seals, 2/pk**  
\$70.00



MODEL: 1050, 1100,  
1200, 1220, 1260

**CTS-11088**  
OEM 0905-1420

**Gold Piston Seals, 2/pk**  
\$70.01



MODEL: 1050, 1100,  
1200, 1220, 1260

**CTS-A11454**  
OEM 5067-4728

**Seal Cap Assembly**  
each \$25.50



MODEL: 1050,  
1100, 1200

**CTS-10673**  
OEM 5062-8562

**Active Inlet Cartridge Valve  
(400 bar)**  
each \$165.00



MODEL: 1050,  
1100, 1200

**CTS-10674**  
OEM G1311-60012

**Outlet Ball Valve**  
each \$248.00

### MODEL: 1050



MODEL: 1050,  
1100, 1200

**CTS-10675**  
OEM 0905-1175

**Wash Seal**  
each \$43.75



MODEL: 1050,  
1100, 1200

**11-3321**  
OEM 5062-2484

**Wash Seal Gasket, 6/pk**  
\$28.56



MODEL: 1050,  
1100, 1200

**CTS-10683**  
OEM 01018-22707

**PTFE Frits, 5/pk**  
\$24.48



MODEL: 1050, 1100, 1200

**CTS-10807**  
OEM 5063-6505

**Outlet Valve Sieves, 10/pk**  
\$15.22



MODEL: 1050, 1090, 1100,  
1200, 1220, 1260, 1290

**CTS-10843**  
OEM 5041-2168

**Glass Solvent Filter**  
each \$33.66



MODEL: 1050,  
1090, 1100, 1200

**CTS-A11259**  
OEM 01018-60025

**Solvent Inlet Filter, SS**  
each \$77.78



## PUMP PARTS

## MODEL: 1050



MODEL: 1050, 1100, 1200

**CTS-10800 KIT**
**Seal Wash Kit,  
Binary Pump, 4/pk**

\$157.08

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



MODEL: 1050, 1100, 1200

**CTS-10814 KIT**

OEM G1310-68731

**Seal Wash Kit, 2/pk**

\$89.76

- Seals (CTS-10675) 2
- Gaskets (CTS-10812) 2



MODEL: 1050, 1090, 1100, 1200

**CTS-11016 KIT**

OEM 5062-2418

**Swagelok® Style Compression  
Fitting Kit, 10/pk**

\$122.40

- Nut 10
- Front Ferrule 10
- Back Ferrule 10



MODEL: 1050, 1100, 1200

**CTS-11284 KIT**

OEM 5065-4499

**Extended Isocratic  
Pump PM Kit**

\$684.05

- 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: 1050, 1090, 1100, 1200, 1220

**11-1240**

OEM 5063-6591

**Nut, PEEK™  
Fingertight 1/16", 10/pk**

\$33.66



MODEL: 1050

**CTS-11332-1**
**1050 Active Inlet Valve  
(Replacement for use  
in CTS-11332)**

each \$433.50



MODEL: 1050

**CTS-11332 KIT**

OEM 01018-60010

**1050 Active Inlet Valve  
Upgrade Kit**

each \$637.50



MODEL: 1050, 1100, 1200

**CTS-10833 KIT**

OEM G1311-68710

**Pump Maintenance Kit**

\$397.80

- 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

## AUTOSAMPLER

### MODEL: 1050



MODEL: 1050  
**CTS-10677**  
OEM 01078-67200  
**Needle Assembly**  
each \$91.80



MODEL: 1050  
**CTS-10725**  
OEM 01078-87303  
**Seat Capillary**  
each \$95.00



MODEL: 1050, 1090  
**CTS-A160**  
OEM 79846-67101  
**Needle Seat**  
each \$48.00



MODEL: 1050  
**CTS-10458**  
OEM 0101-0626  
**Rotor Seal, Vespel®, 2-Groove**  
each \$79.09

## DETECTOR LAMPS



MODEL: 1090, 1040, 1050  
**CTS-00127**  
OEM 79883-60002  
**VW (79583C), DAD (G1306A), MWD (79854A) (1000 hr)**  
each \$540.00



MODEL: 1050, 79853A  
**CTS-00129**  
OEM 79853-60002  
**1050 VW Lamp (1000 hr)**  
each \$391.72



MODEL: 1050  
**CTS-10723 KIT**  
**Autosampler Preventative Maintenance Kit**  
\$306.00

- Rotor Seal (CTS-10458) 1
- Needle (CTS-10677) 1
- Needle Seat (CTS-A160) 1
- Seat Capillary (CTS-10725) 1

## PUMP PARTS

### MODEL: 1090



MODEL: 1090

**CTS-10273**

OEM 3980-0672

**Sapphire Plunger**

each \$95.32



MODEL: 1090, 1050,  
1100, 1200, 1220,  
1260, 1290

**CTS-10843**

OEM 5041-2168

**Glass Solvent Filter**

each \$33.66



MODEL: 1090

**CTS-10416**

OEM 5062-2494

**Plunger Seals, Black, 4/pk**

\$116.42



MODEL: 1090, 1050,  
1100, 1200

**CTS-A11259**

OEM 01018-60025

**Solvent Inlet Filter, SS**

each \$77.78



MODEL: 1090

**CTS-10272**

OEM 79835-67101

**Check Valve  
Cartridge Assembly**

each \$126.38



MODEL: 1090, 1050, 1100, 1200

**CTS-11016 KIT**

OEM 5062-2418

**Swagelok® Style Compression  
Fitting Kit, 10/pk**

\$122.40

- Nut 10
- Front Ferrule 10
- Back Ferrule 10

## AUTOSAMPLER & DETECTOR LAMP

### MODEL: 1090



MODEL: 1090, 1050

**CTS-A160**  
OEM 79846-67101  
**Needle Seat**  
each \$45.90



MODEL: 1090

**CTS-A083**  
OEM 1535-4048  
**Rotor Seal, Rheodyne**  
**7010, 7000, 7040**  
each \$66.35



MODEL: 1090, 1050

**CTS-00127**  
OEM 79883-60002  
**VW (79583C),**  
**DAD (G1306A),**  
**MWD (79854A)**  
**(1000 hr)**  
each \$525.00

## SPECTROPHOTOMETER LAMPS

### MODEL: 8452A, 8453, 8454



MODEL: 8452A

**CTS-00128**  
OEM 08452-60104  
**Long Life Deuterium Lamp**  
**(2000 hr)**  
each \$525.00



MODEL: 8453, 8454

**CTS-10594**  
OEM 2140-0605  
**Deuterium Lamp (1000 hr)**  
each \$545.40



## PUMP PARTS



MODEL: 100A, 110A,  
110B, 112, 114M, 116,  
118, 125, 126, 127, 128

**CTS-0620**  
OEM 240621

**Outlet Check  
Valve Cartridge**  
each \$116.28



MODEL: 100A, 110A,  
110B, 112, 114M, 116,  
118, 125, 126, 127, 128

**CTS-0621**  
OEM 240620

**Inlet Check  
Valve Cartridge**  
each \$116.28



MODEL: 100A, 110A,  
110B, 112, 114M, 116,  
118, 125, 126, 127, 128

**CTS-0721**  
OEM 240721

**Outlet Check  
Valve Assembly**  
each \$153.00



MODEL: 110A, 110B,  
112, 114M, 116, 118,  
125, 126, 127, 128

**CTS-0720**  
OEM 240720

**Inlet Check  
Valve Assembly**  
each \$153.00



MODEL: 110A, 110B, 112,  
114M, 116, 118, 125, 126,  
127, 128

**CTS-A033**  
OEM 240619

**Check Valve  
Filter Replacement Kit**  
each \$20.40



MODEL: 110A, 110B, 112

**CTS-2430**  
OEM 243053

**Sapphire Plunger**  
each \$160.00



MODEL: 114M, 116,  
118, 125, 126, 127, 128

**CTS-2369**  
OEM 240714

**Sapphire Plunger**  
each \$165.87



MODEL: 100A,  
110A, 110B

**CTS-8871**  
OEM 887138

**Plunger Seal**  
each \$37.00



MODEL: 114M, 116,  
118, 125, 126, 127, 128

**CTS-7162**  
OEM 237162, 728770

**Plunger Seal, Black**  
each \$52.00



MODEL: 114M, 116,  
118, 125, 126, 127, 128

**CTS-10557**  
OEM 728770

**Plunger Seal, Gold**  
each \$48.00



MODEL: 125, 126, 127, 128

**CTS-10391**  
OEM 728772, 238627

**Plunger Wash Seal**  
each \$58.00

## PUMP PARTS



MODEL: ICS-3000,  
ICS-5000  
**11-2587**  
OEM 063382  
**Piston Seal Wash  
Seal/Priming Valve Seal**  
each \$42.40



MODEL: ICS-3000,  
ICS-5000  
**11-2588**  
OEM 064946  
**Main Piston Seal**  
each \$95.00

## AUTOSAMPLER



MODEL: ASI-100, ASI-100T  
**11-2642**  
OEM 6805.1334  
**Needle Port Seal**  
each \$98.00



MODEL: ASI-100, ASI-100T  
**11-2643**  
OEM 6810.3002  
**ASI-100 Needle**  
each \$410.00



MODEL: ASI-100, ASI-100T  
**11-3322**  
OEM 5805.2930  
**250µL Syringe with Seal**  
each \$147.90



MODEL: WPS-3000  
**11-3332**  
OEM 6822.0002  
**100µL Syringe for  
WPS-3000 Series**  
each \$300.00

## PUMP PARTS



MODEL: 10SC, 10WSC

**CTS-10889-01**

OEM (Gilson) 5463125895,  
(Rainin) R007101637

**Seal Assembly, Gold**  
each \$40.00



MODEL: 10SC,  
10WSC, 10WTi

**CTS-10889-02**

OEM (Gilson) 5463125095,  
(Rainin) R007101636

**Seal Assembly, Black**  
each \$40.00



MODEL: 25SC, 25SS

**CTS-11014-01**

OEM (Gilson) 5463050825,  
(Rainin) R007101643

**Seal Assembly, Gold**  
each \$40.00



MODEL: 5SC, 10SC, 10WSC,  
10WTi, 25SC, H1, H2

**CTS-A11211**

OEM 3650180

**Check Valve Cartridge,  
Outlet**  
each \$101.00



MODEL: 5SC, 10SC, 10WSC,  
10WTi, 25SC, H1

**CTS-A11206**

OEM 3650170

**Check Valve Cartridge,  
Inlet**  
each \$97.00



MODEL: 10SC, 10SS, 10Ti

**CTS-11368**

OEM 3650009

**Piston, Sapphire**  
each \$183.00

## 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 AN0-2328 or 810-1033

#### Ceramic Plunger

each \$75.00



MODEL: 655, 6000, 6200,  
6200A, L-2130, L-7100,  
L-7110, L-7120

### CTS-10394

OEM 655-1080

#### Pump Seal, Black

each \$34.37



MODEL: 655, 6000, 6200,  
6200A, L-2130, L-7100,  
L-7110, L-7120

### CTS-10547

OEM 655-1080

#### Pump Seal, Gold

each \$35.48



MODEL: 655, 6000,  
6200, 6200A, L-2130,  
L-7100, L-7110

### CTS-10493

OEM AN0-0835

#### Check Valve Cartridge, 2/pk

\$170.72



MODEL: 655, 6000,  
6200, 6200A

### CTS-A084

OEM AN0-0833 or 885-1330

#### Inlet Check Valve Assembly

each \$149.23



MODEL: 655, 6000,  
6200, 6200A

### CTS-A085

OEM AN0-0834 or 885-1331

#### Outlet Check Valve Assembly

each \$154.56



MODEL: L-2130,  
L-7100, L-7110

### CTS-A125

OEM AN0-0836 or 810-1004

#### Inlet Check Valve Assembly

each \$150.96



MODEL: L-2130,  
L-7100, L-7110

### CTS-A126

OEM AN0-0837 or 810-1005

#### Outlet Check Valve Assembly

each \$150.96

## AUTOSAMPLER



MODEL: AS-7200,  
AS-7250

### CTS-10573

OEM AN0-0818

#### Injection Valve Rotor Seal

each \$66.51



MODEL: AS-7200,  
AS-7250, L-8800

### CTS-A124

OEM 810-3095

#### Dilutor Valve Seal

each \$79.95

## PUMP PARTS

### JASCO



MODEL: 880, 980, 1580,  
2080, 2086, 2089

**CTS-10971**  
OEM 6560-405A  
6778-H109A

**Inlet Check Valve**  
each \$202.98



MODEL: 880, 980, 1580,  
2080, 2086, 2089

**CTS-10972**  
OEM 6560-404A  
6778-H110A

**Outlet Check Valve**  
each \$202.98



MODEL: 880, 980,  
1580, 2080, 2086, 2089

**CTS-10955**  
OEM 2305-0005A

**Sapphire Plunger**  
each \$204.00



MODEL: 880, 980,  
1580, 2080, 2086, 2089

**CTS-11027**  
OEM 6560-H148-PE

**Pump Seal, Gold, 2/pk**  
\$88.68

## INJECTOR VALVE

### RHEODYNE



MODEL: 7010,  
7040, 7000, 7067

**CTS-A083**  
OEM 7010-039

**Rotor Seal, Vespel®**  
each \$66.35



MODEL: 7125, 7126,  
7725, 7725i, 9725

**CTS-A019**  
OEM 7125-047

**Rotor Seal, Vespel®**  
each \$66.00



MODEL: 7010, 7725, 7725i,  
9725, 9725i, 3725-038,  
3725i-038, 3725, 3725i

**CTS-10612**  
OEM 7010-015

**Isolation Seal**  
each \$13.22



MODEL: 7725, 7725i, 7726,  
9725, 9725i

**CTS-A11329**  
OEM 7725-026

**Stator Face Assembly**  
each \$135.17



## 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**  
each \$41.00



MODEL: 200 SERIES,  
1, 2, 3, 3B, 4, 10, 250, 400,  
410, 620, INT. 4000

**CTS-10772**  
OEM 09907339

**Pump Seal,  
Low Pressure**  
each \$42.00



**CTS-10757**  
OEM 02540275

**High Pressure  
Seal Kit KIT**  
\$135.24

- 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**  
each \$288.22



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**  
each \$288.22



MODEL: 200 SERIES

**CTS-11265 KIT**  
OEM N2910383

**S200 Standard  
Pump Seals Kit**  
\$140.25



MODEL: 200 SERIES,  
1, 2, 3, 3B, 4, 10, 250, 400,  
410, 620, INT. 4000

**11-1240**  
OEM ED020005

**Nut, PEEK™ Fingertight  
1/16", 10/pk**  
\$33.66



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**  
each \$204.00



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**  
each \$253.98



MODEL: 200 SERIES,  
1, 2, 3, 3B, 4, 10, 250, 400,  
410, 620, INT. 4000

**CTS-00230-02**  
OEM 09902128

**O-Ring, PTFE**  
each \$2.04



MODEL: 200 SERIES,  
1, 2, 3, 3B, 4, 10, 250, 400,  
410, 620, INT. 4000

**CTS-10759**  
OEM 02542076

**Piston Seal Backup Ring**  
each \$3.37

## AUTOSAMPLER



MODEL: 200 SERIES

**CTS-A168**

OEM 09923270

**250 $\mu$ L Syringe**

each \$81.00



MODEL: 200 SERIES

**CTS-A019**

OEM 09904802

**Rotor Seal**

each \$65.41



MODEL: 200 SERIES

**CTS-A11329**

OEM 7725-026

**Stator Face Assembly**

each \$135.17



MODEL: 200 SERIES

**CTS-10724**

OEM N2930023

**Injector Needle**

each \$76.50

## DETECTOR LAMPS



MODEL: 200 SERIES, 785A

**CTS-00025**

OEM N2920149

**Deuterium Lamp (1000 hr)**

each \$372.30



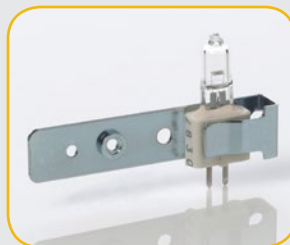
MODEL: BIO 19, LAMBDA 2,  
5, 7, 9, 10, 11, 12, 14, 15, 16, 17,  
18, 19, 20, 40, 800, 900

**CTS-10854**

OEM Old B0160917, L6022728

**Deuterium Lamp (1500 hr)**

each \$504.90



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**

each \$95.00

## PUMP PARTS



MODEL: LC-7A, LC-10AS

**CTS-10319**

OEM 228-17019-93

**Sapphire Plunger**

each \$150.00



MODEL: LC-10ATvp

**CTS-10584**

OEM 228-35009-92

**Ceramic Plunger Assembly**

each \$96.90



MODEL: LC-9A,  
LC-10AD, LC-600

**CTS-10320**

OEM 228-18523-91

**Sapphire Plunger**

each \$95.00



MODEL: LC-20AT

**CTS-11425**

OEM 228-35009-93

**Sapphire Plunger**

each \$122.40



MODEL: LC-10ADvp,  
LC-20AD/AB, LC-20ADXR,  
LC-30ADSF, LC-2010

**CTS-11297**

OEM 228-35601-93

**Sapphire Plunger**

each \$132.60



MODEL: LC-6A

**CTS-0422**

OEM 228-11999-00

**Plunger Seal**

each \$30.00



MODEL: LC-10ADvp,  
LC-20AD/AB, LC-20ADXR,  
LC-30ADSF, LC-2010

**11-3795**

OEM 228-35281-95

**Sapphire Plunger w/Holder**

each \$250.00



MODEL: LC-7A,  
LC-10Ai, LC-10AS,  
LC-10AT, LC-10ATvp

**CTS-10340**

OEM 228-21975-00

**Plunger Seal**

each \$54.33



MODEL: LC-10ADvp

**CTS-A138**

OEM 228-35601-91

**Ceramic Plunger Assembly**

each \$109.14



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**

each \$53.04



MODEL: LC-10ADvp,  
LC-20AB, LC-20AD,  
LC-20ADXR, LC-30AD,  
LC-2010

**11-3897**

OEM 228-35602-91

**Plunger Holder**

each \$120.00



MODEL: LC-10ATvp, LC-20AT,  
LC-2010 A/C HT, LC-HT,  
SIL-10ADvp, SIL-20A/AC,  
SIL-30AC, SIL-30ACMP,  
SIL-2010 A/C HT

**CTS-10694**

OEM 228-35145-00

**Plunger Seal**

each \$63.24

## PUMP PARTS



MODEL: LC-10Ai, LC-10AS,  
LC-10AT, LC-10ATvp

**CTS-10583**

OEM 228-28499-00

**Plunger Rinse Seal**  
each \$63.19



MODEL: LC-10ADvp,  
LC-20AD/AB

**CTS-10963**

OEM 228-32628-00

**Gold Plunger Seal**  
each \$38.56



MODEL: LC-10AD, LC-10ADvp,  
LC-20AD/AB, LC-30ADSF,  
LC-2010, LC-2010 HT

**11-2891**

OEM 228-32784-91  
Old# 228-24311-01,  
228-31828-00

**PTFE Diaphragm, 2/pk**  
\$104.04



MODEL: LC-6A, LC-10AS

**CTS-A099**

OEM 228-12353-91

**Inlet Check Valve**  
each \$134.64



MODEL: LC-6A, LC-8A,  
LC-10AS

**CTS-A100**

OEM 228-09054-93

**Outlet Check Valve**  
each \$132.60



MODEL: LC-6A, LC-10AS

**CTS-10595 KIT**

OEM 228-11200-91

**Check Valve Rebuild Kit**  
(for 2 Valves)  
\$77.60

- Ruby Balls 2
- Seats 2
- Thin Washers 2
- Thick Washers 2
- Retainer Washers 2



MODEL: LC-9A,  
LC-10AD, LC-600

**CTS-A102**

OEM 228-33492-91  
Old# 228-18522-91

**Inlet Check Valve**  
each \$158.10



MODEL: LC-9A, LC-10AD,  
LC-10AT, LC-600

**CTS-A103**

OEM 228-32531-92  
Old# 228-18522-92

**Outlet Check Valve**  
each \$140.76



MODEL: LC-20AD/AB,  
LC-20ADXR, LC-20AT,  
LC-20AR, LC-10AT, LC-10ADvp,  
LC-10ATvp, LC-30AD

**CTS-A11316**

OEM 228-45707-91

**Suction Filter,  
Stainless Improved**  
each \$70.18



MODEL: LC-10AT,  
LC-10ATvp

**CTS-A117**

OEM 228-32166-91

**Inlet Check Valve**  
each \$134.64



MODEL: LC-10ADvp

**CTS-A145**

OEM 228-39093-92

**Inlet Check Valve**  
each \$132.60



MODEL: LC-10ADvp,  
LC-10ATvp

**CTS-A121**

OEM 228-34976-91

**Outlet Check Valve**  
each \$132.60

## PUMP PARTS



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**  
each \$204.00



MODEL: LC-10AD,  
LC-10ADvp, LC-10ATvp,  
LC-20AD/B, LC-20AT

### CTS-11305

OEM 228-48607-91  
Old# 228-32744-00

**PEEK™ 5µm Filter**  
each \$19.58



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**  
each \$221.14



MODEL: LC-10ADvp, LC-10AT,  
LC-10ATvp, LC-20AD/AB,  
LC-20ADXR, LC-20AR,  
LC-20AT, LC-30AD

### CTS-A11421

OEM 228-35871-96

**Line Filter Assembly**  
each \$61.20



MODEL: LC-20AT

### 11-3807

OEM 228-45704-92

**Inlet Check Valve, Primary**  
each \$205.00



## AUTOSAMPLER



MODEL: SIL-10A,  
SIL-10Ai, SIL-10AXL

**CTS-10578**  
OEM 228-25237-04  
**Syringe, 500µL**  
each \$81.47



MODEL: LC-2010,  
SIL-10ADvp, SIL-10AXL

**CTS-10686**  
OEM 228-33355-04  
**Needle Seal, Vespel®**  
each \$53.04



MODEL: SIL-10ADvp,  
SIL-10AXL/vp, SIL-HT

**CTS-11435**  
OEM 228-33355-01  
**Seal, Needle PEEK™**  
each \$39.98



MODEL: SIL-20 A/C,  
SIL-20ACHT, SIL-HT

**CTS-11312**  
OEM 228-41310-92  
**PEEK™ Rotor, HPV**  
each \$307.00



MODEL: LC-2010,  
LC-2010 HT, SIL-20 A/C,  
SIL-20ACHT, SIL-20ACXR,  
SIL-HT

**CTS-11313**  
OEM 228-36923-00  
**PEEK™ Rotor, LPV**  
each \$119.34



MODEL: SIL-20 A/C,  
SIL-20ACHT

**CTS-11315**  
OEM 228-42325-01  
**Needle Seal,  
PEEK™ SIL-20**  
each \$106.08



MODEL: SIL-10ADvp

**CTS-10942**  
OEM 228-21217-97  
**Rotor Seal**  
each \$143.90



MODEL: SIL-10A,  
SIL-10Ai, SIL-10AXL

**CTS-A106**  
OEM 228-21217-91  
**Rotor Seal**  
each \$98.94



MODEL: SIL-10A,  
SIL-10Ai, SIL-10AXL

**CTS-A067**  
OEM 228-21220-91  
**Stator Assembly**  
each \$155.04



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**  
each \$81.60



MODEL: LC-10ATvp, LC-20AT,  
LC-2010 A/C HT, LC-HT,  
SIL-10ADvp, SIL-20A/AC,  
SIL-20ACHT, SIL-30AC,  
SIL-30ACMP

**CTS-10694**  
OEM 228-35145-00  
**Plunger Seal**  
each \$63.24

## DETECTOR LAMPS



MODEL: SPD-10A,  
SPD-10AV, SPD-10AVvp,  
SPD-20AV

**CTS-00135**  
OEM 228-34016-02  
**Deuterium Lamp (2000 hr)**  
each \$546.72

# THERMO ELECTRON AND SPECTRA-PHYSICS

## PUMP PARTS



MODEL: 8800, 8810, P1000,  
P2000, P4000, ISOCHROM

**CTS-3102**  
OEM A3102-010

**Sapphire Plunger**  
each \$115.00



MODEL: P1000,  
P2000, P4000

**CTS-10396**  
OEM A4848-010

**Washer**  
each \$4.50



MODEL: 8800, 8810, P1000,  
P2000, P4000, ISOCHROM

**CTS-2962**  
OEM A2962-010

**Plunger Seal, Gold**  
each \$26.86



MODEL: CONSTAMETRIC  
I, II, III, CM3000, CM3200,  
CM3500, CM4000, CM4100

**CTS-A079**  
OEM 801892001

**Plunger Seal Kit, Gold**  
\$62.00



MODEL: 8800, 8810, P1000,  
P2000, P4000, ISOCHROM

**CTS-2963**  
OEM A2963-010

**Backup Seal**  
each \$30.22



MODEL: CONSTAMETRIC  
I, II, III, CM3000, CM3200,  
CM3500, CM4000, CM4100

**CTS-7000**  
OEM 801306

**Sapphire Plunger**  
each \$120.00



MODEL: 8800, 8810, P1000,  
P2000, P4000, ISOCHROM

**CTS-3495**  
OEM A3495-010

**Inlet Check Valve**  
each \$139.68



MODEL: CONSTAMETRIC  
I, II, III, CM3000, CM3200,  
CM3500, CM4000, CM4100

**CTS-A091**  
OEM 900946

**Check Valve Cartridge**  
each \$125.00



MODEL: P1000,  
P2000, P4000

**CTS-3990**  
OEM A3990-010

**Transducer Check  
Valve Assembly**  
each \$145.49



MODEL: CONSTAMETRIC  
I, II, III, CM3000, CM3200,  
CM3500, CM4000, CM4100

**CTS-2061**  
OEM 206156001

**Plunger Seal, Gold**  
each \$36.00



MODEL: 8700, 8800,  
8810, ISOCHROM

**CTS-3490**  
OEM A3490-010

**Outlet Check Valve**  
each \$144.11



MODEL: CONSTAMETRIC  
I, II, III, CM3000, CM3200,  
CM3500, CM4000, CM4100

**CTS-20612**  
OEM 206129001

**Plunger Seal, Black**  
each \$36.00

# THERMO ELECTRON AND SPECTRA-PHYSICS

## AUTOSAMPLER



MODEL: 8800 SERIES

**CTS-10517**

OEM 3301-0100

**Syringe, 500µL**

each \$82.64



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

**CTS-A096**

OEM A3588-020

**Syringe Assembly,  
250µL**

each \$125.27



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

**CTS-A083**

OEM 2508-0360

**Rotor Seal, VespeI®**

each \$66.35



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

**CTS-10612**

OEM 7010-015

**Isolation Seal,  
Rheodyne 7010**

each \$13.22

## 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)**

each \$445.00



MODEL: UV6000

**CTS-A123**

OEM 108052

**Lamp Assembly, TSP  
UV6000 Detector**

each \$504.90

## SURVEYOR PLUS SYSTEMS



MODEL: SURVEYOR PLUS

**11-1596**

OEM 00950-01-00087

**Piston Assembly, Sapphire**

each \$122.40



MODEL: SURVEYOR PLUS

**11-1597**

OEM 00950-30020

**Piston Assembly, TZP**

each \$96.90



MODEL: SURVEYOR PLUS

**11-1598**

OEM 00950-30026

**Check Valve Assembly,  
Inlet**

each \$129.54



MODEL: SURVEYOR PLUS

**11-1599**

OEM 00950-30021

**Check Valve Assembly,  
Outlet**

each \$129.54



MODEL: SURVEYOR PLUS

**11-1600**

OEM 00950-01-00085

**Check Valve, Secondary  
Inlet**

each \$204.00



MODEL: SURVEYOR PLUS

**11-3943**

OEM 00950-01-00086

**Check Valve, Primary Inlet**

each \$205.00

# THERMO ELECTRON AND SPECTRA-PHYSICS

## SURVEYOR PLUS SYSTEMS



MODEL: SURVEYOR PLUS

**11-1601**

OEM 00107-18008

**Seal, GFP, High Pressure,  
Piston**

each \$63.24



MODEL: SURVEYOR PLUS

**11-1603**

OEM 00950-30025

**Seal, Wash**

each \$63.19



MODEL: SURVEYOR PLUS

**11-1602**

OEM 00950-30004

**Seal, Polyethylene, High  
Pressure, Piston**

each \$54.33



MODEL: SURVEYOR PLUS

**11-1604**

OEM 00950-30009

**Line Filter Frit**

each \$19.58

## PUMP PARTS

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



MODEL: (#4, #5 HEADS),  
PREP LC-4000

**CTS-A136**  
OEM WAT033325

**Inlet Check Valve,  
#4, #5 Heads**  
each \$223.84



MODEL: (#4, #5, #6 HEADS),  
PREP LC-4000

**CTS-3326**  
OEM WAT033326

**Outlet Check Valve**  
each \$212.63



MODEL: 510, 515, 525,  
600, 610, 1515, 1525

**CTS-A142**  
**Cartridge Check Valve  
Housing (use w/CTS-10600  
or 11-2401)**  
each \$46.92



MODEL: 510, 515, 600, 610,  
1515, 1525, 2690, 2690D,  
2695, 2695D, 2795

**CTS-10600**  
OEM 700000254  
**Check Valve Cartridge, 2/pk**  
\$160.65



MODEL: 510, 515, 600, 610,  
1515, 1525, 2690, 2690D,  
2695, 2695D, 2795

**11-2401**  
OEM 700002399  
**Check Valve Cartridge,  
Ceramic Ball & Seat, 2/pk**  
\$204.00



MODEL: M6KA, 510, 515,  
600, 610, LC MODULE 1

**CTS-0100**  
OEM WAT033679  
**Inlet Check Valve  
Assembly**  
each \$142.80



MODEL: M6KA, 510, 515,  
600, 610, LC MODULE 1

**CTS-0106**  
OEM WAT025203

**Inlet Check Valve Housing**  
each \$45.90



MODEL: M6KA, 510, 515,  
600, 610, LC MODULE 1

**CTS-0110 KIT**  
OEM WAT060495

**Inlet Check Valve Rebuild Kit**  
rebuilds 2 valves – \$119.72

- Blue Washer (CTS-0101) 2
- Gasket, Retainer (CTS-0102) 2
- Insert, PCTFE (CTS-0103) 2
- Check Ball & Seat 0.125" (CTS-0104) 2
- Washer, TFE (CTS-0105) 2



MODEL: 510, 600,  
LC MODULE 1

**CTS-8223**  
OEM WAT088223

**Check Valve Rebuild  
Kit - Extended Flow**  
rebuilds 2 valves  
\$144.63



MODEL: M6KA, 510

**CTS-0200**  
OEM WAT025028

**Outlet Check Valve  
Assembly - Actuator Style**  
each \$132.60



MODEL: M6KA, 510

**CTS-0201**  
OEM WAT025212

**Outlet Housing -  
Actuator Style**  
each \$51.00



MODEL: M6KA, 510

**CTS-0210**  
OEM WAT026016

**Outlet Check Valve  
Rebuild Kit - Actuator Style**  
rebuilds 2 valves  
\$59.16



## 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**  
each \$153.00



MODEL: 510, 515, 600, 610, 1525EF, LC MODULE 1

**CTS-0301**  
OEM WAT025207

**Outlet Check Valve Housing – Ball & Seat**  
each \$48.96



MODEL: 510, 515, 600, 610, 1525EF, LC MODULE 1

**CTS-0310 KIT**  
OEM WAT026014

**Outlet Check Valve Rebuild Kit – Ball & Seat**  
rebuilds 2 valves  
\$121.18



MODEL: 510, 515, 600, 610, 1525EF, LC MODULE 1, PREP LC-4000

**CTS-0307**  
OEM WAT060307  
**Inlet Check Valve Assembly – Extended Flow, 225µL**  
each \$163.20



MODEL: M6KA, 510, 515, 600, 610, 1515, 1525, LC MODULE 1

**CTS-2294**  
OEM WAT022934

**Plunger Seal**  
each \$34.86



MODEL: M6KA, 510, 515, 590, 600, 610, 1515, 1525

**CTS-2294-04**  
OEM WAT022946

**Plunger Seals**  
each \$139.45



MODEL: 510, 515, 600, 610, 1515, 1525, LC MODULE 1

**CTS-6613**  
OEM WAT026613

**Plunger Seal, Black**  
each \$29.10



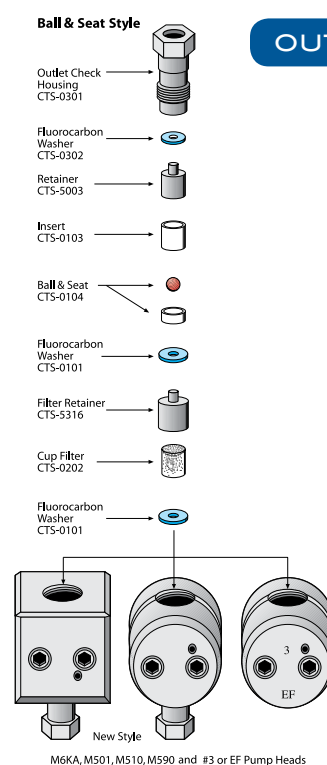
MODEL: 510, 515, 600, 610, 1515, 1525, LC MODULE 1

**CTS-10548**  
**Gold Plunger Seal, Analytical Heads**  
each \$34.70



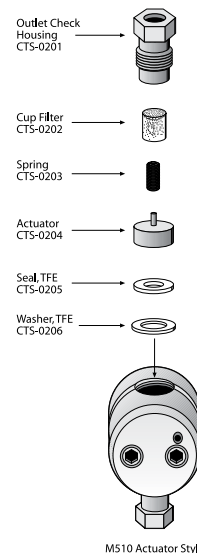
MODEL: 510, 515, 590, 600, 610, LC MODULE 1

**CTS-6644**  
OEM WAT026644  
**Black Plunger Seal, EF Heads**  
each \$29.10



## OUTLET CHECK VALVES

### Actuator Style



## PUMP PARTS

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



MODEL: 510, 515, 590, 600, LC MODULE 1

**CTS-10832**  
OEM WAT026644

**Gold Plunger Seal, EF Heads**  
each \$32.13



MODEL: M6KA, 510, 590, 600

**CTS-5464**  
OEM WAT025464

**Clip Ring, Plunger Retainer**  
each \$5.60



MODEL: 510, 515, 590, 600, 610, 1525EF, LC MODULE 1

**CTS-6030**  
OEM WAT060304

**Sapphire Plunger, Extended Flow**  
each \$155.00



MODEL: M6KA, 510, 590, 600, 626, 1515, 1515 MICRO, 1525, LC MODULE 1

**CTS-5669**  
OEM WAT025669  
WAT005081

**Oil Seal**  
each \$10.71



MODEL: M6KA, 510, 590, 600, 610, LC MODULE 1

**CTS-5656**  
OEM WAT025656, WAT069511

**Sapphire Plunger**  
each \$135.66



MODEL: M6KA, 510, 515, 590, 600

**CTS-0037**  
OEM WAT060037

**Tube, Left Inlet Pigtail**  
each \$20.15



MODEL: M6KA, 510, 590, 600, 610, LC MODULE 1

**CTS-1042**  
OEM WAT011042

**Plunger Insertion Tool**  
each \$51.00



MODEL: M6KA, 510, 515, 590, 600

**CTS-0038**  
OEM WAT060038

**Tube, Right Inlet Pigtail**  
each \$20.15



MODEL: 515, 1515, 1525

**CTS-10475**  
**Sapphire Plunger Kit**  
each \$153.82



MODEL: 510, 515, 600, 610, LC MODULE 1

**CTS-0069L**  
OEM WAT060069

**Tube, Left Outlet Pigtail**  
each \$14.56



MODEL: 515, 1515, 1525

**CTS-10475-1**  
OEM WAS207069

**Sapphire Plunger**  
each \$137.70



MODEL: 510, 515, 600, 610, LC MODULE 1

**CTS-0069R**  
OEM WAT060069

**Tube, Right Outlet Pigtail**  
each \$14.56

# WATERS

## PUMP PARTS

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



**CTS-2330**  
OEM WAT022330  
**Ferrule, SS**  
each \$3.68



**CTS-6809**  
OEM WAT026809  
**Mobile Phase Transfer Line, TFE, 3/16" OD x 1/8" OD x 25'**  
each \$42.00



MODEL: 710, 712, 715, 717, 2690, 2690D, 2695, 2695D, 2790, 2795  
**CTS-5313**  
OEM WAT025313  
**Compression Screw, SS**  
each \$3.47



MODEL: M6KA, 510, 515, 590, 600, 610  
**CTS-5559**  
OEM WAT025559  
**Priming Syringe Needle**  
each \$26.00



**CTS-9733**  
OEM WAT097332  
**SS Union, Zero Dead Volume**  
each \$28.83



MODEL: M6KA, 510, 515, 590, 600, 610  
**CTS-5740**  
OEM WAT060476  
**Draw-Off Tube Assembly**  
each \$50.37



**11-2610**  
**Tubing Stainless Steel 1/16" OD x 0.50mm (0.020") ID x 10ft**  
each \$34.50



MODEL: 510, 515, 600, 610, 1515, 1525  
**CTS-6958**  
OEM WAT069583  
**Indicator Rod Kit**  
each \$10.36



**11-2611**  
**Tubing Stainless Steel 1/16" OD x 1mm (0.040") ID x 10ft**  
each \$34.50



**11-2612**  
**Tubing Stainless Steel 1/16" OD x 250µm (0.010") ID x 10ft**  
each \$34.50

## PUMP PARTS

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



MODEL: 510

### CTS-0012 **KIT**

OEM WAT060012

#### Insert Seal Parts Kit

\$33.25

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



MODEL: 500, 515, 600, 1515, 1525

### CTS-5746 **KIT**

OEM WAT025746

#### Reference Valve Rebuild Kit

\$39.00

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



MODEL: 510

### CTS-1106

OEM WAT010106

#### Inlet Tube Assembly w/Ball & Seat

each \$42.73



MODEL: M45, 501, 510, 590

### CTS-0058

OEM WAT060058

#### Round Pump Head w/Actuator Outlet Check Valve

each \$418.20



MODEL: 510, 590, 600

### CTS-0068

#### Round Pump Head w/Ball & Seat Outlet Check Valve

each \$402.90



MODEL: M45, 501, 510, 515, 590, 600, 610

### CTS-9600 **KIT**

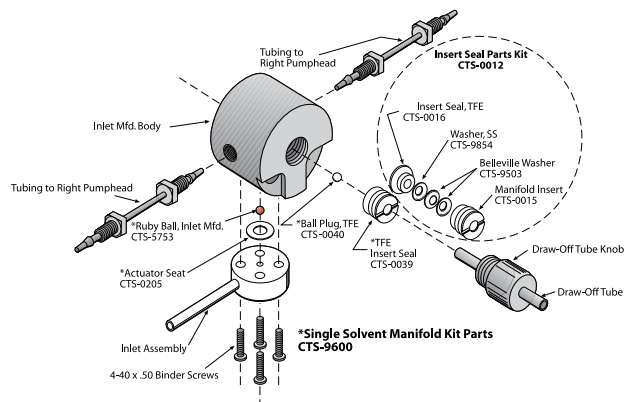
OEM WAT060448

#### Inlet Manifold Kit

\$62.68

- Ball Plug, TFE (CTS-0040) 1
- Seat, TFE 1
- Ruby Ball 1
- Insert Seal Body Part Kit (CTS-0012) 1
- Inlet Tube Body Assembly (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, 590, 600

### CTS-1068

**Round Pump Head  
w/o Check Valves,  
Ball & Seat Style**  
each \$221.71



MODEL: 510

### CTS-11009 KIT

OEM WAT052670

**510 Performance  
Maintenance Kit**  
\$668.10

- 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) 2
- Inlet Manifold Kit (CTS-9600) 1



MODEL: 1515

### CTS-11294 KIT

OEM 201000113

**1515 Performance  
Maintenance Kit**  
\$706.86

- 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 KIT

OEM 201000114

**1525 Performance  
Maintenance Kit**  
\$1,379.04

- 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: 515

### CTS-11010 KIT

OEM WAT052587

**515 Performance  
Maintenance Kit**  
\$765.00

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



### CTS-10985 KIT

OEM WAT052675

**600/610 Performance  
Maintenance Kit**  
\$844.56

- 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**

each \$66.30



MODEL: 625, 626

**CTS-A058**

OEM WAT024120

**Check Valve Cartridge, PEEK™**

each \$66.30



MODEL: 616, 625, 626

**CTS-11032 KIT**

OEM WAT031790

**Plunger and Wash Seal, Rebuild Kit**

\$149.65



MODEL: 616, 625, 626, 1525 MICRO

**CTS-11296**

OEM WAT088726

**Seal Insertion/Extraction Tool**

each \$81.60



MODEL: 616, 625, 626, 1525 MICRO

**CTS-10323**

OEM WAT031788, WAT030547

**Sapphire Plunger**

each \$147.44

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

MODEL: 616, 1525 MICRO

**CTS-10906 KIT**

OEM WAT034515

**Seal Kit**

\$136.68

- Plunger Seals 2
- Plunger Wash Seals 2
- O-Rings 2
- Backup Rings 2



MODEL: 616

**CTS-10986 KIT**

OEM WAT052672

**616 Performance Maintenance Kit**

\$933.30

- 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**

\$933.30

- 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, LC MODULE 1

**CTS-5531**

OEM WAT025531

**Solvent Reservoir Filter, 10µm**

each \$35.81

## PUMP PARTS

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



MODEL: 2690, 2690D,  
2695, 2695D, 2790, 2795  
**CTS-10566**  
OEM WAT270938, (2 of WAT270789)  
**Head Plunger  
Seal Kit, Alliance, 2/pk**  
\$61.02



MODEL: 2690, 2690D,  
2695, 2695D, 2790, 2795  
**CTS-10711**  
OEM WAT271066  
**Head Plunger Seal Kit,  
Black, Alliance, 2/pk**  
\$59.86



MODEL: 2690, 2690D,  
2695, 2695D, 2790, 2795  
**CTS-10560**  
OEM WAT271018, (2 of WAT270160)  
**Seal Wash Plunger  
Seal, Alliance, 2/pk**  
\$56.50



MODEL: 2690, 2690D,  
2695, 2695D, 2790, 2795  
**CTS-10989**  
OEM WAT270939, (4 of WAT270163)  
**Face Seals, 4/pk**  
\$136.68



MODEL: 2690, 2690D,  
2695, 2695D, 2790, 2795  
**CTS-10597**  
OEM WAT270940, (4 of WAT270668)  
**Wash Tube Seal Kit, 4/pk**  
\$107.10



MODEL: 2690, 2690D,  
2695, 2695D, 2790, 2795  
**CTS-10532**  
OEM WAT271017  
**Seal Wash Face Seal**  
each \$35.01



MODEL: 2690, 2690D,  
2695, 2695D, 2795 510,  
515, 600, 610, 1515, 1525  
**11-2401**  
OEM 700002399  
**Check Valve Cartridge,  
Ceramic Ball & Seat, 2/pk**  
\$204.00



MODEL: 2690, 2690D,  
2695, 2695D, 2795 510,  
515, 600, 610, 1515, 1525  
**CTS-10600**  
OEM 700000254  
**Check Valve  
Cartridge, 2/pk**  
\$160.65



MODEL: 2690, 2690D,  
2695, 2695D, 2790,  
2795, 2796  
**CTS-10476**  
OEM WAT270959, WAT271067,  
WAT270488  
**Sapphire Plunger, Alliance**  
each \$148.51



MODEL: 2690, 2690D,  
2695, 2695D, 2790, 2795,  
2796, 515, 600, 610, 626,  
LC MODULE 1  
**CTS-10984**  
OEM WAT007272  
**Sparge Diffuser**  
each \$14.42



MODEL: 2690, 2690D,  
2695, 2695D, 2790, 2795,  
717, LC MODULE 1  
**CTS-10919**  
OEM WAT088084  
**2µm Precolumn  
Filter Insert**  
each \$16.23



MODEL: 2690, 2690D,  
2695, 2695D, 2790, 2795,  
717, LC MODULE 1  
**CTS-10919-5**  
OEM WAT005139  
**2µm Precolumn  
Filter Insert, 5/pk**  
\$81.14

## PUMP PARTS

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



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

**CTS-A094**  
OEM WAT270941

**Check Valve Cartridge, 2/pk**  
\$170.72



**CTS-9733**  
OEM WAT097332

**SS Union,  
Zero Dead Volume**  
each \$28.83



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

**CTS-A11431-02**  
OEM 700002332

**Cartridge Check Valve  
Housing, 2/pk**  
\$198.90



**11-2610**  
**Tubing Stainless Steel**  
**1/16" OD x 0.50mm**  
**(0.020") ID x 10ft**  
each \$41.25



MODEL: 2690, 2690D, 2695,  
2695D, 2700, 2535, 2545, 2555,  
510, 515, 600, 610, 1515, 1525,  
1525EF, 1525 MICRO, ACQUITY,  
LC MODULE 1

**CTS-5531**  
OEM WAT025531

**Solvent Reservoir Filter,  
10µm**  
each \$35.81



**11-2611**  
**Tubing Stainless**  
**Steel 1/16" OD x 1mm**  
**(0.040") ID x 10ft**  
each \$41.25



MODEL: 2690, 2690D,  
2695, 2695D, 2790, 2795,  
717, LC MODULE 1

**CTS-10527**  
OEM WAT084561 or WAT035190  
**Precolumn Filter Assembly**  
each \$72.83



**11-2612**  
**Tubing Stainless Steel**  
**1/16" OD x 250µm**  
**(0.010") x 10ft**  
each \$41.25



**CTS-2330**  
OEM WAT022330

**Ferrule, SS**  
each \$3.68



**CTS-6809**  
OEM WAT026809  
**Mobile Phase Transfer**  
**Line, TFE, 3/16" OD x**  
**1/8" OD x 25'**  
each \$42.00



MODEL: 2690, 2690D,  
2695, 2695D, 2790, 2795,  
710, 712, 715, 717

**CTS-5313**  
OEM WAT025313  
**Compression Screw, SS**  
each \$3.47



MODEL: 2690, 2690D,  
2695, 2695D, 484, 486, 717

**CTS-10945**  
OEM WAT080443  
**Battery**  
each \$8.67

## PUMP PARTS & AUTOSAMPLER

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



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

### CTS-11080 KIT

OEM 700004073

**Alliance Solvent  
Manager Performance  
Maintenance Kit**  
\$912.90

- 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



MODEL: 2690, 2690D,  
2695, 2695D

### CTS-11380 KIT

**2690/2695 Performance  
Maintenance Kit  
w/Seal Pack**  
\$1,479.00

- 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
- Sparge 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, 715, 2690,  
2690D, 2695, 2695D

### CTS-3195

OEM WAT073195

**250µL Syringe Tip**  
each \$3.58



MODEL: 2690, 2690D, 2695, 2695D

### CTS-10988 KIT

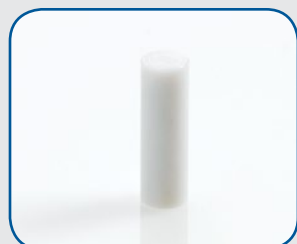
OEM WAT270944

**2690/2695 Performance Maintenance Kit**  
\$1,155.00

- 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
- 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-10741-01) 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, SS (CTS-5313) 1

## PUMP PARTS & AUTOSAMPLER

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



MODEL: 717, 715, 2690,  
2690D, 2695, 2695D

**CTS-3209**  
OEM WAT077347

**Syringe Seal,  
250µL/2500µL**  
each \$4.30



MODEL: 717, 715, 2690,  
2690D, 2695, 2695D

**CTS-2324**  
OEM WAT072324

**Needle Wash Frit**  
each \$3.20



MODEL: 717, 715,  
2690, 2690D

**CTS-10285**  
OEM WAT045407, WAT078800

**TFE 3-Way Valve 4 (V4)**  
each \$207.06



MODEL: 717

**CTS-A087**  
OEM WAT025893

**Valve 3 Solenoid Assembly**  
each \$232.79



MODEL: 2690, 2690D,  
2695, 2695D

**CTS-10770**  
OEM 700001229

**Waste Valve, V3  
(2-Way Solenoid Valve)**  
each \$207.06



MODEL: 717, 715, 2690,  
2690D, 2695, 2695D

**CTS-3109**  
OEM WAT073109

**250µL Syringe**  
each \$116.22



MODEL: 2690, 2690D, 2695, 2695D

**CTS-11030 KIT**

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

\$1,250.00

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



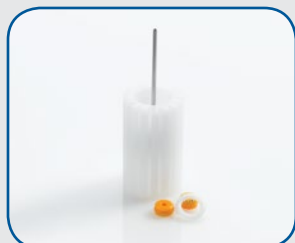
# WATERS

## AUTOSAMPLER

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



MODEL: 2690, 2690D,  
2695, 2695D  
**CTS-10788-5**  
OEM 70001318, (5 of 415000230)  
**Needle Wash Frit, 5/pk**  
\$69.62



MODEL: 717, 715, 2690,  
2690D, 2695, 2695D  
**CTS-10761 KIT**  
OEM WAT045424  
**HPMV 1 & 2 Rebuild Kit  
w/Spool**  
\$154.22

- 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**  
\$84.27



MODEL: 717, 715, 2690,  
2690D, 2695, 2695D  
**CTS-1010T**  
OEM WAT097387  
**O-Ring, TFE**  
each \$1.79



MODEL: 717, 717 PLUS,  
710, 712, 715, 2690, 2690D,  
2695, 2695D  
**CTS-7550**  
OEM 700001247  
**Performance Autosampler  
Needle**  
each \$135.66



MODEL: 2690, 2690D  
**CTS-11029 KIT**  
OEM WAT270942  
**Assembled Seal Pack**  
\$530.40



MODEL: 2690, 2690D,  
2695, 2695D  
**CTS-11222 KIT**  
OEM 700002791  
**Seal Pack Assembly Kit**  
\$606.90



MODEL: 2690, 2690D, 2695, 2695D

**CTS-10839 KIT**  
OEM WAT271019  
**Seal Pack Rebuild Kit**  
\$218.28

- |                                    |   |                                    |   |
|------------------------------------|---|------------------------------------|---|
| • 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, SS (CTS-5313) | 1 |
| • Needle Wash Frit (CTS-2324)      | 1 |                                    |   |

## AUTOSAMPLER

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



MODEL: 717

**CTS-10987 KIT**  
OEM WAT052669

**717 Performance Maintenance Kit**  
\$631.38

- 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**  
each \$484.50



MODEL: 717, 2690, 2690D,  
2695, 2695D, 2790, 2795,  
LC MODULE 1

**CTS-10919**  
OEM WAT088084  
**2µm Precolumn  
Filter Insert**  
each \$16.23



MODEL: 717, 2690, 2690D,  
2695, 2695D, 2790, 2795,  
LC MODULE 1

**CTS-10919-5**  
OEM WAT005139  
**2µm Precolumn  
Filter Insert, 5/pk**  
\$81.14



MODEL: 717, 2690, 2690D,  
2695, 2695D, 2790, 2795,  
LC MODULE 1

**CTS-10527**  
OEM WAT084561 or WAT035190  
**Precolumn Filter Assembly**  
each \$72.83

# WATERS

## PUMP PARTS

**MODEL:** ACQUITY, nanoACQUITY, H-CLASS, I-CLASS



MODEL: ACQUITY I-CLASS BSM, ACQUITY UPLC 12V BSM, ACQUITY UPLC BSM

**CTS-5531-07**

OEM 700003616

**Solvent Bottle Filter, 7/pk**

\$250.69



MODEL: ACQUITY H-CLASS QSM, ACQUITY UPLC 12V BSM, ACQUITY UPLC BSM, nanoACQUITY UPLC BSM/ASM

**CTS-1119-02**

OEM 700002599

**Head Plunger Seal, 2/pk**

\$112.20



MODEL: ACQUITY H-CLASS QSM, ACQUITY UPLC 12V BSM, ACQUITY UPLC BSM, nanoACQUITY UPLC BSM/ASM

**CTS-1121-02**

OEM 700002598

**Wash Seal, 2/pk**

\$96.94



MODEL: ACQUITY H-CLASS BIO QSM, ACQUITY H-CLASS QSM, ACQUITY I-CLASS BSM, ACQUITY UPLC 12V BSM, ACQUITY UPLC BSM, nanoACQUITY UPLC BSM/ASM

**CTS-11093-02**

OEM 700002600

**Plunger, 2/pk**

\$171.50



MODEL: ACQUITY UPLC BSM

**CTS-11091 KIT**

OEM 201000173

**Acquity BSM Performance Maintenance Kit**

\$2,175.00

- |                                                              |   |                                                         |   |
|--------------------------------------------------------------|---|---------------------------------------------------------|---|
| • O-Ring, PTFE (CTS-11092)                                   | 4 | • Wash Seal, 2/pk (CTS-1121-02)                         | 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 | • 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 I2V BSM

**CTS-11371 KIT**

OEM 201000197

**Acquity I2V BSM Performance Maintenance Kit**

\$2,080.00

- |                                                               |   |                                                          |   |
|---------------------------------------------------------------|---|----------------------------------------------------------|---|
| • O-Ring, PTFE (CTS-11092)                                    | 4 | • SS Filter Frit Replacement Cartridge, 2/pk (CTS-11415) | 1 |
| • Plunger, 2/pk (CTS-11093-02)                                | 2 | • 50µL 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-1121-02)                               | 2 |                                                          |   |

## PUMP PARTS

**MODEL:** ACQUITY, nanoACQUITY, H-CLASS, I-CLASS



MODEL: ACQUITY H-CLASS QSM

**CTS-11335 KIT**

OEM 201000233

**Acquity H-Class QSM Performance Maintenance Kit**

\$1,143.00

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

## PUMP PARTS

**MODEL:** ACQUITY, nanoACQUITY, 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**

\$264.00



MODEL: ACQUITY I-CLASS BSM, ACQUITY UPLC BSM

**CTS-11415**

OEM 700002913

**SS Filter Frit Replacement Cartridge, 2/pk**

\$100.00



MODEL: ACQUITY H-CLASS QSM

**CTS-A11095**

OEM 700005164

**Check Valve, Double Ball & Seat**

each \$153.00



MODEL: ACQUITY UPLC I2V BSM, ACQUITY UPLC BSM

**CTS-A11135**

OEM 700002911

**50µL Std. Zirconia Mixer**

each \$239.70



MODEL: 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 \$306.00



MODEL: ACQUITY H-CLASS QSM

**CTS-A11376**

OEM 700005119

**Mixer Assembly, 100µL**

each \$165.00



MODEL: ACQUITY H-CLASS QSM

**CTS-A11336**

OEM 700005165

**Cartridge, Intelligent Valve**

each \$142.00



MODEL: ACQUITY H-CLASS QSM

**CTS-A11344**

OEM 700005173

**Filter, GPV, 4/pk**

\$82.00



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

**CTS-A11336-02**

OEM 700003563

**Cartridge, Intelligent Valve, 2/pk**

\$284.00



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

**CTS-A11372**

OEM 430001773

**Tube Assy, Transducer to Check Valve, I2V**

each \$42.40



MODEL: ACQUITY H-CLASS QSM, ACQUITY I-CLASS BSM, ACQUITY UPLC I2V BSM, ACQUITY UPLC BSM, PREP LC-2000, nanoACQUITY UPLC BSM/ASM

**CTS-11092**

OEM WAT076152

**O-Ring, PTFE**

each \$4.08



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

**CTS-A11374**

OEM 430001443

**Tube Assy, SSV to I2V**

each \$26.00



## PUMP PARTS

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



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

**CTS-A11123**

OEM 289003547

**SS Primary Inlet Check Valve Filter**

each \$90.00



MODEL: ACQUITY UPLC I2V BSM, ACQUITY UPLC BSM

**CTS-11116**

OEM 700002632

**Filter, Air, Acquity Pump**

each \$6.00



MODEL: ACQUITY I-CLASS BSM, 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**

\$180.00



MODEL: ACQUITY H-CLASS BIO QSM, ACQUITY H-CLASS QSM

**CTS-11370**

OEM 700005167

**Filter, Air, Door**

each \$17.80



MODEL: nanoACQUITY UPLC BSM/ASM, nanoACQUITY UPLC w/2D TECHNOLOGY

**CTS-A11129**

OEM 430001470

**Tube Assy, SSV to In-line Filter**

each \$53.00



MODEL: ACQUITY H-CLASS QSM

**CTS-A11342**

OEM 430002357

**Tube Assembly, Transducer to Check Valve**

each \$40.80



MODEL: ACQUITY UPLC BSM, nanoACQUITY UPLC BSM/ASM

**CTS-A11133**

OEM 430001121

**Tube Assembly, Transducer to Check Valve**

each \$35.62



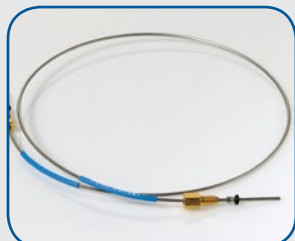
MODEL: ACQUITY UPLC HIGH TEMPERATURE COLUMN HEATER, ACQUITY UPLC COLUMN HEATER MODULE, ACQUITY UPLC COLUMN HEATER/Cooler, ACQUITY UPLC COLUMN MANAGER

**11-2414**

OEM 700003114

**PEEK™ Ferrule, 1/16", 10/pk**

\$25.00



MODEL: ACQUITY UPLC BSM, OPEN ARCHITECTURE UPLC, UPLC w/ONLINE SPE TECHNOLOGY

**CTS-A11145**

OEM 430001486

**Tube Assy, System Outlet, SDS**

each \$118.00



MODEL: ACQUITY UPLC I2V BSM, ACQUITY UPLC BSM

**CTS-11115**

OEM 700002633

**Filter, Air, Pump Handle**

each \$5.00

## PUMP PARTS

**MODEL:** ACQUITY, nanoACQUITY, H-CLASS, I-CLASS



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

**11-2525**

OEM 700002634

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

\$97.00



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

**11-2529**

OEM 700002645

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

\$146.00



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

**11-2526**

OEM 700002635

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

\$97.00

## AUTOSAMPLER

**MODEL:** ACQUITY, nanoACQUITY, H-CLASS, I-CLASS

MODEL: ACQUITY UPLC  
SAMPLE MGR

**CTS-A11151**  
OEM 700002644

**Needle Assembly, PEEK™**  
each \$104.00



MODEL: ACQUITY  
UPLC SAMPLE MGR,  
nanoACQUITY UPLC  
SAMPLE MGR

**CTS-11149**  
OEM 700002572

**Needle Seal O-Ring,  
002 Kalrez**  
each \$45.00



MODEL: ACQUITY UPLC  
SAMPLE MGR, nanoACQUITY  
UPLC SAMPLE MGR

**CTS-A11381**  
OEM 205000362

**Needle, SS, 30µL**  
each \$241.00



MODEL: ACQUITY H-CLASS  
SM-FTN, ACQUITY I-CLASS  
SM-FTN, ACQUITY UPLC  
SAMPLE MGR, nanoACQUITY  
UPLC SAMPLE MGR

**CTS-A11167**  
OEM 700002570

**100µL Sample Metering  
Syringe, HP**  
each \$190.00



MODEL: ACQUITY UPLC  
SAMPLE MGR

**CTS-A11142**  
OEM 430001084

**Tube Assy, Inject Outlet**  
each \$71.00



MODEL: ACQUITY UPLC  
SAMPLE MGR, nanoACQUITY  
UPLC SAMPLE MGR, OPEN  
ARCHITECTURE UPLC

**CTS-A11147**  
OEM 430001326

**Sample Loop, 10µL**  
each \$67.20



MODEL: ACQUITY  
UPLC SAMPLE MGR,  
nanoACQUITY UPLC  
SAMPLE MGR

**CTS-11150**  
OEM 401000501

**Filter, Air, Chassis**  
each \$8.00



MODEL: ACQUITY UPLC  
SAMPLE MGR, nanoACQUITY  
UPLC SAMPLE MGR

**11-3595**  
OEM 700002569

**2.5mL Wash Syringe**  
each \$168.50



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

**11-3606**  
OEM 401000694

**Filter, Air, Side Panel**  
each \$12.00



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

**11-2570**  
OEM 405011492

**Needle Seat**  
each \$171.00



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

**11-3602**  
OEM 430002452

**Tubing, Pump Outlet, GP**  
each \$60.00



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

**11-2591**  
OEM 405008854

**Needle Guide**  
each \$13.00

## DETECTOR LAMPS

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



MODEL: 484, 486, 490

**CTS-0335**

OEM WAT080335

**Window Gasket**

each \$24.76



MODEL: 484, 486, 490

**CTS-0336**

OEM WAT080336

**Lamp Side Gasket**

each \$24.76



MODEL: 486

**CTS-8068**

OEM WAT080687

**Quartz Lens**

each \$168.68



MODEL: 484, 486

**CTS-10328**

OEM WAT080244

**Optics Cover Window**

each \$28.25



MODEL: 486

**CTS-10699**

OEM 700000356

**Deuterium Lamp,  
Long Life (2000 hr)**

each \$571.20



MODEL: 486

**CTS-11065 KIT**

OEM WAT052666

**486 Performance  
Maintenance Kit**

\$775.20

- D2 Long-Life Lamp
- Battery
- Filter Foam
- Quartz Lens
- Slo-Blow Fuse 0.5A

1  
1  
1  
1  
1



MODEL: 996, 2996

**CTS-10268**

OEM WAT052586

**Deuterium Lamp (2000 hr)**

each \$586.50



MODEL: 2487, 2488

**CTS-10465**

OEM WAS081142

**Deuterium Lamp (2000 hr)**

each \$493.30



MODEL: 2487, 2488

**CTS-A11184**

OEM WAS081341

**Lamp Housing Window  
Assembly**

each \$147.90

## DETECTOR LAMPS

**MODEL:** 470, 474



MODEL: 470

**CTS-8389**

**Xenon Lamp, w/o Holder  
or Mirror**

each \$443.41



MODEL: 474

**CTS-10611**

**Xenon Lamp**

each \$443.41

## DETECTOR LAMPS

### AGILENT



MODEL: 1040, 1050, 1090

**CTS-00127**

OEM 79883-60002

**VW (79583C),  
DAD (G1306A),  
MWD (79854A)  
(1000 hr)**

each \$525.00



MODEL: 1100, 1200 VWD,  
1220 VWD, G1314A/B

**CTS-10494**

OEM G1314-60100

**Long Life Deuterium Lamp  
(2000 hr)**

each \$487.56



MODEL: 8452A

**CTS-00128**

OEM 08452-60104

**Deuterium Lamp (2000 hr)**

each \$509.93



MODEL: 1100, 1200 DAD,  
G1315A/B, G1365A/B

**CTS-10827**

OEM 5181-1530

**Long Life Deuterium Lamp  
(2000 hr)**

each \$770.10



MODEL: 1050, 79853A

**CTS-00129**

OEM 79853-60002

**1050 VW Lamp (1000 hr)**

each \$391.72



MODEL: 8453, 8454

**CTS-10594**

OEM 2140-0605

**Deuterium Lamp (1000 hr)**

each \$545.40



MODEL: 1100, 1200 DAD,  
G1315A/B, G1365A/B

**CTS-10473**

OEM 2140-0590

**Deuterium Lamp (1000 hr)**

each \$545.40



MODEL: 1100, 1200, 1220,  
1260, G1315A/B, G1365A/B

**CTS-A11218**

OEM 2140-0813

**Long Life Deuterium Lamp  
(2000 hr)**

each \$757.25



# 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)**  
each \$372.30

### PERKINELMER



MODEL: 200 SERIES, 785A

**CTS-00025**  
OEM N2920149

**Deuterium Lamp (1000 hr)**  
each \$372.30

### DIONEX



MODEL: DSA-1, VDM-1

**CTS-00246**

**Deuterium Lamp (1000 hr)**  
each \$445.00

### SHIMADZU



MODEL: SPD-10,  
SPD-10AV, SPD-10AVP,  
SPD-20A, SPD-20AV

**CTS-00135**  
OEM 228-34016-02

**Deuterium Lamp (2000 hr)**  
each \$546.72

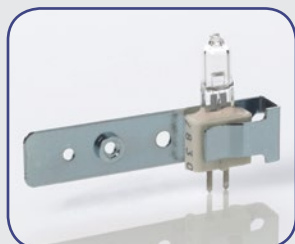
### PERKINELMER



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)**  
each \$504.90



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**  
each \$95.00

### 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)**  
each \$445.00

### 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)**  
each \$445.00



MODEL: UV6000

**CTS-A123**  
OEM 108052

**Lamp Assembly, TSP  
UV6000 Detector**  
each \$504.90

## DETECTOR LAMPS

### WATERS



MODEL: 470  
**CTS-8389**  
**Xenon Lamp, w/o Holder or Mirror**  
each \$443.41



MODEL: 474  
**CTS-10611**  
**Xenon Lamp**  
each \$443.41



MODEL: 486  
**CTS-10699**  
OEM 700000356  
**Deuterium Lamp, Long Life (2000 hr)**  
each \$571.20



MODEL: 996, 2996  
**CTS-10268**  
OEM WAT052586  
**Deuterium Lamp (2000 hr)**  
each \$586.50



MODEL: 2487, 2488  
**CTS-10465**  
OEM WAS081142  
**Deuterium Lamp (2000 hr)**  
each \$493.30

# TOOLS

## TOOLS



**44-1773**  
**7/16" x 7/16" Open End Wrench**  
**(for 1/16" compression nuts)**  
each \$28.53



**44-1774**  
**9/16" x 9/16" Open End Wrench**  
**(for 1/8" compression nuts)**  
each \$32.65



**44-1777**  
**3/4" x 3/4" Open End Wrench**  
**(for 1/4" compression nuts)**  
each \$42.77



**CTS-00089**  
**5/16" x 3/8" Open End Wrench,**  
each \$16.52



**CTS-00090**  
**1/4" x 5/16" Open End Hex Wrench**  
each \$16.85



**CTS-00091**  
**6" Adjustable Wrench**  
each \$31.83



**CTS-1059**  
**Microprobe - Straight**  
each \$11.40



**CTS-1060**  
**Microprobe - Arched**  
each \$11.40



**CTS-1042**  
OEM WAT011042  
**Plunger Insertion Tool**  
each \$51.00



**CTS-TT-1001**  
**Terry Tool Tubing Cutter**  
each \$106.02



**CTS-TT-1003**  
**Replacement Cutting Wheels, 3/pk**  
\$25.00



**11-2574**  
**Tubing Cutter for Polymeric**  
**1/16" to 1/8" OD Tubing**  
each \$22.71



**11-2585**  
**Tubing Cutter for Polymeric**  
**3/16" to 5/16" OD Tubing**  
each \$22.80



**44-1781**  
**Tubing Bender**  
each \$67.50

# FILTERS, FITTINGS & TUBING

## MOBILE PHASE SOLVENT FILTERS



**CTS-A11259**  
**Solvent Filter 10µm SS with 1/8" Stem**  
each \$77.78



**CTS-5531**  
**Solvent Filter 10µm SS with 1/8" Stem**  
each \$35.81



**11-1414**  
**Solvent Filter 10µm SS with 1/16" Stem**  
each \$18.79



**11-1418**  
**Solvent Filter 10µm SS with 1/4-28 Nut/Ferrule for 1/8" OD Tubing**  
each \$23.70



**11-1419**  
**Solvent Filter 20µm SS with 5/16-24 Nut/Ferrule for 3/16" or 4mm OD Tubing**  
each \$33.18



**11-1420**  
**Solvent Filter 10µm SS with 1/4-28 Nut/Ferrule for 1/16" OD Tubing**  
each \$26.36



**11-1421**  
**Solvent Filter 10µm SS with 1/4-28 Nut/Ferrule for 2mm OD Tubing**  
each \$24.64



**11-1422**  
**Solvent Filter 10µm SS with 1/4-28 Nut/Ferrule for 3mm OD Tubing**  
each \$24.64



**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)**  
each \$6.80



**CTS-10843**  
**Glass Solvent Filter**  
each \$33.66

# 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                                                                                                                  | \$40.90  |
|  | 11-1239                 | Ferrule Stainless Steel for 1/16" OD Tubing, 10/pk                                                                                                                         | \$36.80  |
|  | CTS-11016<br><b>KIT</b> | <b>Swagelok® Style Compression Fitting Kit, 10/pk</b><br><ul style="list-style-type: none"> <li>• Nut 10</li> <li>• Front Ferrule 10</li> <li>• Back Ferrule 10</li> </ul> | \$122.40 |

### Plug 10-32 PEEK™

|                                                                                   | Part No. | Description                             |             |
|-----------------------------------------------------------------------------------|----------|-----------------------------------------|-------------|
|  | CTS-1820 | Grip-tight PEEK™ 10-32 HPLC Column Plug | each \$3.30 |

### 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 | \$33.66 |

### Fingertight Two-Piece Nut/SealTight Ferrules

|                                                                                                      | Part No. | Description                                                                                       |         |
|------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------|---------|
|                   | 11-1257  | Fitting 10-32 Fingertight PEEK™ Short Male Nut/SealTight PEEK™ Ferrule for 1/16" OD Tubing, 10/pk | \$60.51 |
|                   | 11-1259  | Fitting 10-32 Fingertight PEEK™ Long Male Nut/SealTight PEEK™ Ferrule for 1/16" OD Tubing, 10/pk  | \$57.66 |
|  | 11-1269  | Ferrule SealTight PEEK™ for 1/16" OD Tubing, 10/pk                                                | \$42.11 |

### Fingertight Two-Piece Nut/Ferrules

|                                                                                                      | Part No. | Description                                                                                        |         |
|------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|---------|
|                   | 11-1209  | Fitting 10-32 Fingertight Red Delrin Single Wing-Nut Male/PEEK™ Ferrule for 1/16" OD Tubing, 10/pk | \$51.72 |
|                   | 11-1213  | Fitting 10-32 Fingertight PEEK™ Double Wing-Nut Male Nut/PEEK™ Ferrule for 1/16" OD Tubing, 10/pk  | \$60.51 |
|                   | 11-1217  | Fitting 10-32 Fingertight PEEK™ Long Male Nut/PEEK™ Ferrule for 1/16" OD Tubing, 10/pk             | \$60.51 |
|                   | 11-1221  | Fitting 10-32 Fingertight PEEK™ Short Male Nut/PEEK™ Ferrule for 1/16" OD Tubing, 10/pk            | \$57.66 |
|  | 11-1255  | Ferrule PEEK™ for 1/16" OD Tubing, 10/pk                                                           | \$41.69 |

### 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 | \$74.96 |
|  | 11-1274  | Ferrule Split PEEK™ for 1/16" OD Tubing, 10/pk                                | \$39.56 |



# 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  | each \$34.20 |
|  | 11-2610  | Tubing Stainless Steel 1/16" OD x 0.50mm (0.020") ID x 10ft | each \$34.20 |
|  | 11-1201  | Tubing Stainless Steel 1/16" OD x 0.75mm (0.030") ID x 10ft | each \$34.20 |
|  | 11-2611  | Tubing Stainless Steel 1/16" OD x 1mm (0.040") ID x 10ft    | each \$34.20 |

### PEEK™ Tubing (Red) – 0.005" ID x 1/16" OD

|                                                                                   | Part No. | Description                                   |               |
|-----------------------------------------------------------------------------------|----------|-----------------------------------------------|---------------|
|  | 11-1151  | Tubing PEEK™ Red 1/16" OD x 0.005" ID x 5ft   | each \$20.88  |
|  | 11-1152  | Tubing PEEK™ Red 1/16" OD x 0.005" ID x 10ft  | each \$40.41  |
|  | 11-1153  | Tubing PEEK™ Red 1/16" OD x 0.005" ID x 20ft  | each \$75.92  |
|  | 11-1154  | Tubing PEEK™ Red 1/16" OD x 0.005" ID x 50ft  | each \$184.21 |
|  | 11-1155  | Tubing PEEK™ Red 1/16" OD x 0.005" ID x 100ft | each \$357.89 |

### PEEK™ Tubing (Yellow) – 0.007" ID x 1/16" OD

|                                                                                     | Part No. | Description                                      |               |
|-------------------------------------------------------------------------------------|----------|--------------------------------------------------|---------------|
|  | 11-1156  | Tubing PEEK™ Yellow 1/16" OD x 0.007" ID x 5ft   | each \$14.49  |
|  | 11-1157  | Tubing PEEK™ Yellow 1/16" OD x 0.007" ID x 10ft  | each \$28.04  |
|  | 11-1158  | Tubing PEEK™ Yellow 1/16" OD x 0.007" ID x 20ft  | each \$52.67  |
|  | 11-1159  | Tubing PEEK™ Yellow 1/16" OD x 0.007" ID x 50ft  | each \$127.81 |
|  | 11-1160  | Tubing PEEK™ Yellow 1/16" OD x 0.007" ID x 100ft | each \$248.31 |

### PEEK™ Tubing (Blue) – 0.010" ID x 1/16" OD

|                                                                                     | Part No. | Description                                    |               |
|-------------------------------------------------------------------------------------|----------|------------------------------------------------|---------------|
|  | 11-1136  | Tubing PEEK™ Blue 1/16" OD x 0.010" ID x 5ft   | each \$14.49  |
|  | 11-1137  | Tubing PEEK™ Blue 1/16" OD x 0.010" ID x 10ft  | each \$28.04  |
|  | 11-1138  | Tubing PEEK™ Blue 1/16" OD x 0.010" ID x 20ft  | each \$52.67  |
|  | 11-1139  | Tubing PEEK™ Blue 1/16" OD x 0.010" ID x 50ft  | each \$127.81 |
|  | 11-1140  | Tubing PEEK™ Blue 1/16" OD x 0.010" ID x 100ft | each \$248.31 |

# FILTERS, FITTINGS & TUBING

## TUBING

### PEEK™ Tubing (Orange) – 0.020" ID x 1/16" OD

|                                                                                   | Part No. | Description                                      |               |
|-----------------------------------------------------------------------------------|----------|--------------------------------------------------|---------------|
|  | 11-1141  | Tubing PEEK™ Orange 1/16" OD x 0.020" ID x 5ft   | each \$14.49  |
|  | 11-1142  | Tubing PEEK™ Orange 1/16" OD x 0.020" ID x 10ft  | each \$28.04  |
|  | 11-1143  | Tubing PEEK™ Orange 1/16" OD x 0.020" ID x 20ft  | each \$52.67  |
|  | 11-1144  | Tubing PEEK™ Orange 1/16" OD x 0.020" ID x 50ft  | each \$127.81 |
|  | 11-1145  | Tubing PEEK™ Orange 1/16" OD x 0.020" ID x 100ft | each \$248.31 |

### PEEK™ Tubing (Green) – 0.030" ID x 1/16" OD

|                                                                                    | Part No. | Description                                     |               |
|------------------------------------------------------------------------------------|----------|-------------------------------------------------|---------------|
|   | 11-1146  | Tubing PEEK™ Green 1/16" OD x 0.030" ID x 5ft   | each \$14.49  |
|   | 11-1147  | Tubing PEEK™ Green 1/16" OD x 0.030" ID x 10ft  | each \$28.04  |
|   | 11-1148  | Tubing PEEK™ Green 1/16" OD x 0.030" ID x 20ft  | each \$52.67  |
|   | 11-1149  | Tubing PEEK™ Green 1/16" OD x 0.030" ID x 50ft  | each \$127.81 |
|  | 11-1150  | Tubing PEEK™ Green 1/16" OD x 0.030" ID x 100ft | each \$248.31 |

### PEEK™ Tubing (Natural) – 0.040" ID x 1/16" OD

|                                                                                     | Part No. | Description                                       |               |
|-------------------------------------------------------------------------------------|----------|---------------------------------------------------|---------------|
|  | 11-1162  | Tubing PEEK™ Natural 1/16" OD x 0.040" ID x 5ft   | each \$14.49  |
|  | 11-1163  | Tubing PEEK™ Natural 1/16" OD x 0.040" ID x 10ft  | each \$28.04  |
|  | 11-1164  | Tubing PEEK™ Natural 1/16" OD x 0.040" ID x 20ft  | each \$52.67  |
|  | 11-1165  | Tubing PEEK™ Natural 1/16" OD x 0.040" ID x 50ft  | each \$127.81 |
|  | 11-1166  | Tubing PEEK™ Natural 1/16" OD x 0.040" ID x 100ft | each \$248.31 |

# 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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