



Replacement Spare Parts for HPLC Pumps

Sapphire Pistons, Piston Seals
and Pumphead Check valves

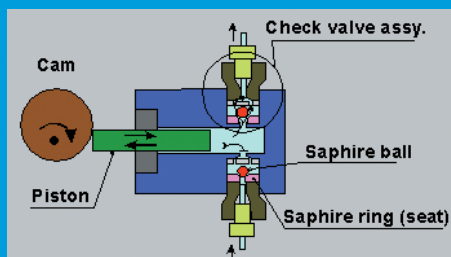
Introduction

Original HPLC Pump manufacturers (OEM's) have always priced their spare parts extremely high, because a considerable number of users are unaware that these products can be purchased separately, at much lower costs.

HPLC Pump Head

The function of an HPLC pump is to deliver the mobile phase to the HPLC column via the sample injection system at a very precise flow rate. This ensures that the sample elution time and thus the identification of the separated sample components are a constant factor, assuming all solvent conditions, including temperature are also constant. Therefore, it is essential that the HPLC pump works at its optimum condition with zero variation in the delivered flow rates.

Mechanical Parts of an HPLC Pump Head



Assuming all electrical components are working correctly, there are three moving parts in the pump head that must work with a 100% efficiency, to ensure flow rate accuracy. These are the;

Piston, made from industrial sapphire, or zirconium

Piston seal, usually consisting of a graphite filled PTFE ring, with a circular stainless steel spring inside the ring. PTFE provides a “non-stick” surface to allow the sapphire piston to glide smoothly through the seal, with the graphite providing extra strength, and thus increased lifetime. The spring is incorporated to allow the PTFE ring to “return” to its original shape after the movement of the sapphire piston through its centre.



Check valves, consist of stainless steel housings, containing a sapphire seat and ruby ball to provide the seal inside the pump head. There is an inlet and an outlet check valve, allowing the solvent to flow into the pump head at atmospheric pressure, with the piston causing the mobile phase to be sent to the sample injection at high pressures, at anything up to 6000 psi (400bar). The check valves act as sophisticated “non-return valves”.



HPLC pumps have a piston movement rate of 1-2 up to 23 strokes per second, depending on the manufacturer.

Therefore, it is essential that high quality and hard working components are used in the pump head, allowing the HPLC pump to operate for as long a period as possible.

HPLC Pump component Manufacturers

Due to the specialisation of the products, virtually all of the pistons, seals and check valves used by the OEM's, are manufactured by a small number of companies worldwide.

We have sourced our products from the very same component manufacturers that supply the HPLC pump OEM's, ensuring that the products we supply will work 100% in every case.

Every HPLC pump user who purchases their spares from us is guaranteed a **zero risk** in doing so.

“We guarantee that our prices are at least 25% lower!”

Huge savings can be achieved of up to 70% purchasing from our range of HPLC pump spares.



Routine HPLC Pump Maintenance

Another large expense for HPLC users involves using the HPLC pump service engineers to fix routine HPLC pump problems, for example leaking pump heads, or the inability of the pump to maintain high enough pressures.

Whilst it is always sensible to have annual or bi-annual maintenance visits to ensure your hardware adheres to regulatory standards, HPLC users can easily undertake their own routine HPLC pump maintenance, thus making considerable savings.

Our components have been fully tested to provide a performance, as least as good as the OEM's products.

There is also the added convenience of being able to order parts, on a single purchase order, for all HPLC pumps in a laboratory, irrespective of the company that was the original manufacturer.

Ordering Information

Please study the lists of HPLC Pump spares that we have available. Simply contact us by any way you feel comfortable with. We take orders over the telephone, by fax, post and of course by email.

Other HPLC products available from Avonchem Diagnostics Ltd;

- HPLC Detector Lamps (Deuterium, Tungsten, Mercury, etc)
- Autosampler vials
- HPLC Columns
- HPLC solvents

All at competitive prices

Please contact us for further information on these products.



| Cat.No. | Make & Model / Part Description | OEM Reference |
|----------|--|---------------------|
| | ABI - any refer to DIONEX - 300C | |
| | ACS - 300, 400, 500 Series | |
| PST-ACS1 | Piston Assembly - Sapphire | 1 / 22148 |
| SE-ACS1 | Piston Seal - Black | 1 / 22626 |
| CV-ACSC | Check Valve Cartridge | Equiv. to 1 / 22229 |
| CV-ACSB | Check Valve Body | N / A |
| | AGILENT - 1050, 1090, 1100 | |
| PST-AG1 | 1050 & 1100 Piston Assembly - Sapphire | 5063-6586 |
| PST-AG2 | 1090 Piston Assembly - Sapphire | 3080-0672 |
| SE-AG1 | Piston Seal - Black All Models | 5062-8516 |
| SE-AG2 | Piston Seal - Yellow All Models | 0905-1420 |
| SE-AG3 | Wash Seal - 1050 & 1100 | 0905-1175 |
| CV-AG1 | Inlet / Outlet Check Valve Assembly 1090 | 79835-25211 |
| CV-AG2 | Inlet / Outlet Check Valve Cartridge 1090 | 79835-67101 |
| CV-AG3 | Inlet / Outlet Check Valve Cartridge 1090 | N / A |
| | ALCOTT - any refer to BISCHOFF - 2200 | |
| | ALTEX - any refer to BECKMAN - same | |
| | ANSPEC - SM 909 refer to BISCHOFF - 2200 | |
| | BAS - PM-60 refer to KNAUER - 64 | |
| | BECKMAN - 100 | |
| PST-BE1 | Piston Assembly - Sapphire | 100-07 |
| SE-BE1 | Piston Seal - Black | 887138 |
| PST-BEG1 | Piston Guide Assembly | 243045 |
| CV-BE1 | Inlet Check Valve Assembly | 243038 |
| CV-BE2 | Outlet Check Valve Assembly | 243040 |
| | Alternate Check Valves : | |
| CV-BE3 | Inlet Check Valve Cartridge | 240620 |
| CV-BE4 | Outlet Check Valve Cartridge | 240621 |
| CV-BE5 | Outlet Check Valve Cartridge Filter | 240619 |
| | BECKMAN - 110 | |
| PST-BE2 | Piston Assembly - Sapphire | 243053 |
| SE-BE1 | Piston Seal - Black | 887138 |
| PST-BEG1 | Piston Guide Assembly | 243045 |
| CV-BE6 | Inlet Check Valve Assembly | 243054 |
| CV-BE2 | Outlet Check Valve Assembly | 243040 |
| | Alternate Check Valves : | |
| CV-BE3 | Inlet Check Valve Cartridge | 240620 |
| CV-BE4 | Outlet Check Valve Cartridge | 240621 |
| CV-BE5 | Outlet Check Valve Cartridge Filter | 240619 |
| | BECKMAN - 112 | |
| PST-BE2 | Piston Assembly - Sapphire | 243053 |
| SE-BE2 | Piston Seal - Black | 236797 |
| CV-BE1 | Inlet Check Valve Assembly | 243038 |
| CV-BE2 | Outlet Check Valve Assembly | 243040 |
| | Alternate Check Valves : | |
| CV-BE3 | Inlet Check Valve Cartridges | 240620 |
| CV-BE4 | Outlet Check Valve Cartridges | 240621 |
| CV-BE5 | Outlet Check Valve Cartridge Filter | 240619 |
| | BECKMAN - 114, 116, 118, 125, 126, 127, 128 | |
| PST-BK2 | Piston Assembly - Sapphire | 240714 |
| SE-BE3 | Piston Seal - Black | 237162 |
| SE-BE4 | Piston Seal - Clear | N / A |
| SE-BE5 | Secondary Seal - Grey | 238627 |
| CV-BE1 | Inlet Check Valve Assembly | 243038 |
| CV-BE2 | Outlet Check Valve Assembly | 243040 |

| Cat.No. | Make & Model / Part Description | OEM Reference |
|---|--|---------------|
| Alternate Check Valves : | | |
| CV-BE3 | Inlet Check Valve Cartridges | 240620 |
| CV-BE4 | Outlet Check Valve Cartridges | 240621 |
| CV-BE5 | Outlet Check Valve Cartridge Filter | 240619 |
| BIO-RAD - 1330, 1350, 2700 | | |
| PST-BR1 | Piston Assembly - Sapphire | 125-0304 |
| SE-BR1 | Piston Seal - Black | 125-0302 |
| SE-BR2 | Piston Seal - Yellow | N / A |
| CV-BR1 | Inlet Check Valve Assembly | 125-0306 |
| CV-BR2 | Outlet Check Valve Assembly | 125-0307 |
| BIOTEK INSTRUMENTS - any refer to KONTRON - same | | |
| BISCHOFF - 2200, 2250, 2500 Analytical | | |
| PST-BIS1 | Piston Assembly - Sapphire | 2200-0210 |
| SE-BIS1 | Primary Piston Seal - Black | 2200-0211 |
| SE-BIS2 | Primary Piston Seal - Clear | N / A |
| PST-BISBR1 | Sapphire Backing Ring | N / A |
| SE-BIS3 | Secondary Piston Seal - Black | N / A |
| CV-BIS1 | Inlet Check Valve Cartridge | 2200-0220 |
| CV-BIS2 | Inlet Check Valve Housing | 2200-0240 |
| CV-BIS3 | Outlet Check Valve Cartridge | 2200-0230 |
| CV-BIS4 | Outlet Check Valve Housing | 2200-0240 |
| BISCHOFF - 2200, 2250, 2500 Microflow | | |
| PST-BIS2 | Piston Assembly - Sapphire | 2200-1210 |
| SE-BIS4 | Piston Seal - Black | 2200-0112 |
| PST-BISBR2 | Sapphire Backing Ring | N / A |
| CV-BIS5 | Inlet Check Valve Cartridge | 2200-0120 |
| CV-BIS2 | Inlet Check Valve Housing | 2200-0240 |
| CV-BIS6 | Outlet Check Valve Cartridge | 2200-0130 |
| CV-BIS4 | Outlet Check Valve Housing | 2200-0240 |
| CECIL - 1000 refer to KNAUER - 64 | | |
| CECIL - 1100 refer to KNAUER - K120 | | |
| DIONEX - AGP, DQP, DRP, DXP, GPM-1, GPM-2, 2000, 4000 | | |
| PST-DX1 | Piston Assembly - Sapphire | 036904 |
| SE-DX1 | Piston Seal with Spring | 040859 |
| SE-DX2 | Piston Seal with O Ring | 035686 |
| SE-DX3 | Back Up Seal | 036901 |
| CV-DX1 | Inlet Check Valve Assembly | 038273 |
| CV-DX2 | Outlet Check Valve Assembly - Old | 038272 |
| CV-DX3 | Outlet Check Valve Assembly - New | 042761 |
| DIONEX - 300C, 300CP, M480, P580, P680 Analytical, Ultimate 3000 | | |
| PST-DX2 | Piston Assembly - Sapphire NOT FOR ULTIMATE | 2267.003 |
| SE-DX4 | Piston Seal - Black | N / A |
| SE-DX5 | Piston Seal - Yellow | 2266.030 |
| SE-DX6 | Seal Backing Ring | 5005.200 |
| SE-DX7 | Piston Seal Kit - Yellow | 6025.201 |
| SE-DX8 | Piston Seal Kit - Yellow | 6025.2010A |
| SE-DX9 | Piston Seal Kit - Black | 6025.201 |
| SE-DX10 | Piston Seal Kit - Black | 6025.2011A |
| SE-DX11 | Ring Seal - PTFE | 2266.008 |
| SE-DX12 | Wash Seal | 2266.0304B |
| CV-DX4 | Inlet Check Valve Assembly - Cartridge Type | 5020.210 |
| CV-DX5 | Outlet Check Valve Assembly - Cartridge Type | 5020.220 |
| CV-DX6 | Inlet / Outlet Check Valve Cartridge | 5020.230 |
| DIONEX - 300C, 300CP, M480, P580, P680 Preparative | | |
| PST-DX3 | Piston Assembly - Alumina | 2267.080 |
| SE-DX13 | Piston Seal - Black | 2266.080 |
| CV-DX7 | Inlet Check Valve Assembly | 5005.320 |
| CV-DX8 | Outlet Check Valve Assembly | 5005.310 |
| CV-DX9 | Inlet / Outlet Check Valve Repair Kit | N / A |

| Cat.No. | Make & Model / Part Description | OEM Reference |
|---|--|---|
| ASN-DX1 | DIONEX - Miscellaneous Autosampler Needle Port Seal | 5805.133 |
| PST-ESA1 SE-ESA1 CV-ESA1 CV-ESA2 CV-ESA3 | ESA - 580 Piston Assembly - Sapphire Piston Seal - Black Inlet Check Valve Assembly - Cartridge Type Outlet Check Valve Assembly - Cartridge Type Inlet / Outlet Check Valve Cartridge | 70-1166 70-3602 Equiv. to 70-0734 Equiv. to 70-0735 N / A |
| PST-ESA2 SE-ESA1 CV-ESA4 CV-ESA2 CV-ESA3 | ESA - 582 Piston Assembly - Zirconia Piston Seal - Black Inlet Check Valve Assembly - Cartridge Type Outlet Check Valve Assembly - Cartridge Type Inlet / Outlet Check Valve Cartridge | 70-4086 70-3602 Equiv. to 70-4056 Equiv. to 70-4057 N / A |
| PST-FX1 SE-FX1 SE-FX2 SE-FX3 CV-FX1 | FLUX - Rheos 2000 & 4000 Piston Assembly - Zirconia Piston Seal - Black Piston Seal - Clear Secondary Seal - Clear Check Valve Cartridge | 10004 90001 N / A 90002 N / A |
| PST-GBC1 SE-GBC1 SE-GBC2 CV-GBC1 | GBC - LC 1110 Piston Assembly - Sapphire Piston Seal - Black Piston Seal - Yellow Check Valve Cartridge | 251-0010 100-3101 N / A N / A |
| PST-GBC2 SE-GBC3 SE-GBC4 CV-GBC2 | GBC - LC 1120 Piston Assembly - Sapphire Piston Seal - Black c/w Back Up Piston Seal - Yellow c/w Back Up Check Valve Cartridge | 951.00-15 200-0006 N / A N / A |
| PST-GBC2 SE-GBC3 SE-GBC4 CV-GBC3 | GBC - LC 1150 Piston Assembly - Sapphire Piston Seal - Black c/w Back Up Piston Seal - Yellow c/w Back Up Check Valve Cartridge | 951.00-15 200-0006 N / A 200-0007 |
| | GBC - 1500 refer to KNAUER - 64 | |
| PST-GE1 SE-GE1 SE-GE2 SE-GE3 CV-GE1 | GE - AKTA Explorer 10 & 100 Piston Assembly - 10 Piston Seal Kit - 10 Piston Seal Kit - 100 Piston Seal Kit - 100 Check Valve Cartridge Kit | N / A 18-1120-77 18-1112-04 18-1113-12 N / A |
| PST-GIL1 SE-GIL1 SE-GIL2 SE-GILBR1 CV-GIL1 CV-GIL2 CV-GIL3 CV-GIL4 CV-GIL5 CV-GIL6 CV-GIL7 CV-GIL8 | GILSON - 30X SC & WSC 5ml Head SC Piston Assembly - Sapphire Piston Seal - Black Piston Seal - Yellow Backing Ring for Seals Inlet Check Valve Body Inlet Check Valve Cartridge Outlet Check Valve Body Outlet Check Valve Cartridge Outlet Check Valve Washer Blank Outlet Check Valve Filter Inlet Check Valve Cartridge Outlet Check Valve Cartridge | E 500008 400112 400120 E 50014 E 50131 E 50082 E 50121 E 50085 E 45329 E 45333 Equiv. to 3650170 Equiv. to 3650180 |
| PST-GIL2 PST-GIL3 SE-GIL3 SE-GIL4 | GILSON - 30X SC & WSC 10ml Head SC Piston Assembly - Sapphire WSC Piston Assembly - Sapphire Piston Seal - Black Piston Seal - Yellow | E 50009 E 50010 400111 400121 |

| Cat.No. | Make & Model / Part Description | OEM Reference |
|---|--|----------------------|
| SE-GILBR2 | Backing Ring for Seals | E 50015 |
| CV-GIL1 | Inlet Check Valve Body | E 50131 |
| CV-GIL2 | Inlet Check Valve Cartridge | E 50082 |
| CV-GIL3 | Outlet Check Valve Body | E 50121 |
| CV-GIL4 | Outlet Check Valve Cartridge | E 50085 |
| CV-GIL5 | Outlet Check Valve Washer Blank | E 45329 |
| CV-GIL6 | Outlet Check Valve Filter | E 45333 |
| CV-GIL7 | Inlet Check Valve Cartridge | Equiv. to 3650170 |
| CV-GIL8 | Outlet Check Valve Cartridge | Equiv. to 3650180 |
| GILSON - 30X SC & WSC 25ml Head | | |
| PST-GIL4 | SC Piston Assembly - Sapphire | E 50011 |
| SE-GIL5 | Piston Seal - Black | 400117 |
| SE-GIL6 | Piston Seal - Yellow | 400122 |
| SE-GILBR3 | Backing Ring for Seals | E 50016 |
| CV-GIL1 | Inlet Check Valve Body | E 50131 |
| CV-GIL2 | Inlet Check Valve Cartridge | E 50082 |
| CV-GIL3 | Outlet Check Valve Body | E 50121 |
| CV-GIL4 | Outlet Check Valve Cartridge | E 50085 |
| CV-GIL5 | Outlet Check Valve Washer Blank | E 45329 |
| CV-GIL6 | Outlet Check Valve Filter | E 45333 |
| CV-GIL7 | Inlet Check Valve Cartridge | Equiv. to 3650170 |
| CV-GIL8 | Outlet Check Valve Cartridge | Equiv. to 3650180 |
| GILSON 30X SC & WSC 50ml Head | | |
| SE-GIL7 | Piston Seal - Black | 400116 |
| SE-GIL8 | Piston Seal - Yellow | 400123 |
| GILSON 30X SC& WSC 100ml Head | | |
| SE-GIL9 | Piston Seal - Black | 400103 |
| SE-GIL10 | Piston Seal - Yellow | 400124 |
| GILSON 32X H1 & H2 | | |
| SE-GIL11 | H1 Piston Seal - Black | 38013222 |
| SE-GIL12 | H1 Piston Seal - Yellow | 38013220 |
| SE-GIL13 | H2 Piston Seal - Black | 38013224 |
| SE-GIL14 | H2 Piston Seal - Yellow | 38013223 |
| CV-GIL7 | H1 Inlet Check Valve Cartridge | Equiv. to 3650170 |
| CV-GIL8 | H1 & H2 Outlet Check Valve Cartridge | Equiv. to 3650180 |
| GILSON - Miscellaneous | | |
| TMK-GIL1 | Titanium Mixer Kit | N / A |
| GYNKOTEK - any refer to DIONEX - same | | |
| HPLC TECH - RR-066 L refer to ACS - 300 | | |
| HEWLETT PACKARD - 1050, 1090, 1100 refer to AGILENT - same | | |
| ICI - K 35 refer to GBC - LC 1110 | | |
| JASCO - PU-880, PU-980, PU-1580, BIP 1 | | |
| PST-JAS1 | Piston Assembly - Sapphire | 107 JA |
| SE-JAS1 | Piston Seal - Yellow | 150 JA |
| SE-JAS2 | Piston Seal - Black | 148 JA |
| CV-JAS1 | Inlet Check Valve Assembly (Isocratic) | 404 JA |
| CV-JAS2 | Inlet Check Valve Assembly (Gradient) | 406 JA |
| CV-JAS3 | Outlet Check Valve Assembly | 405 JA |
| CV-JAS4 | Check Valve Cartridge | N / A |
| JASCO - PU-1580 Semi-Microflow | | |
| PST-JAS2 | Piston Assembly - Zirconia | 2305-0013A |
| SE-JAS3 | Piston Seal - Grey | 6778-H126A |
| SE-JAS4 | Piston Seal - Yellow | N / A |
| CV-JAS5 | Inlet Check Valve Assembly - Cartridge Type | Equiv. to 6778-H123A |
| CV-JAS6 | Outlet Check Valve Assembly - Cartridge Type | Equiv. to 6778-H124A |
| CV-JAS7 | Inlet / Outlet Check Valve Cartridge | N / A |

| Cat.No. | Make & Model / Part Description | OEM Reference |
|--|--|---------------|
| KNAUER - 64 Analytical | | |
| PST-KNR1 | Point End Piston - Sapphire | N / A |
| PST-KNR2 | Point End Piston Assembly - Sapphire | 6207530040 |
| PST-KNR3 | Round End Piston - Sapphire | N / A |
| PST-KNR4 | Round End Piston Assembly - Sapphire | N / A |
| SE-KNR1 | Piston Seal - Black | N / A |
| SE-KNR2 | Seal Kit - Black | 6207520540 |
| SE-KNR3 | Piston Seal - Clear | N / A |
| SE-KNR4 | Seal Kit - Clear | N / A |
| PST-KNRBR1 | Sapphire Backing Ring | 3205341010 |
| CV-KNR1 | Check Valve Cartridge | 6306415000 |
| KNAUER - 64 Microflow | | |
| PST-KNR5 | Piston Assembly - Sapphire | N / A |
| SE-KNR5 | Piston Seal - Grey | N / A |
| SE-KNR6 | Seal Kit | 6207520580 |
| PST-KNRBR2 | Sapphire Backing Ring | N / A |
| CV-KNR1 | Check Valve Cartridge | 6306415000 |
| KNAUER - 64 Preparative | | |
| PST-KNR6 | Piston Assembly Point End - Alumina | N / A |
| PST-KNR7 | Piston Assembly Round End - Alumina | N / A |
| SE-KNR7 | Piston Seal - Grey | N / A |
| SE-KNR8 | Seal Kit | N / A |
| PST-KNRBR3 | Ceramic Backing Ring | N / A |
| CV-KNR1 | Check Valve Cartridge | 6306415000 |
| KNAUER - MicroStar, MiniStar, Maxi Star, K120, K500, K501, K1000, K1001 | | |
| PST-KNR8 | Piston Assembly - Sapphire | A1410-1 |
| PST-KNR9 | Piston Assembly - Zirconia | A1410 |
| SE-KNR1 | Piston Seal - Black | N / A |
| SE-KNR3 | Piston Seal - Clear | N / A |
| SE-KNR9 | Secondary Seal - Black | N/A |
| SE-KNR10 | Piston Seal Kit - Black (w/o Sec. Seals) | A1414 |
| SE-KNR11 | Piston Seal Kit - Black (c/w Sec. Seals) | A1514 |
| SE-KNR12 | Piston Seal Kit - Clear (c/w Sec. Seals) | A1515 |
| CV-KNR1 | Check Valve Cartridge | A0684 |
| KONTRON - 320 M, 325 M | | |
| PST-KON1 | Piston Assembly - Sapphire | 96-90015 |
| SE-KON1 | Piston Seal - Black (Standard) | 35-99005 |
| SE-KON2 | Piston Seal - Black (Improved) | 35-99010 |
| SE-KON3 | Piston Seal - Yellow | 35-99017 |
| SE-KON4 | Piston Seal - Clear | 35-99011 |
| CV-KON1 | Inlet Check Valve Assembly (Isocratic) | 92-90007 |
| CV-KON2 | Inlet Check Valve Assembly (Gradient) | 92-90016 |
| CV-KON3 | Outlet Check Valve Assembly | 92-0008 |
| CV-KON4 | Check Valve Cartridge | N / A |
| KONTRON - 410, 414 | | |
| PST-KON2 | Piston Assembly - Sapphire | N / A |
| SE-KON5 | Piston Seal - Black | 35-30011 |
| CV-KON5 | Inlet Check Valve Assembly | 92-00626 |
| CV-KON6 | Outlet Check Valve Assembly | 87-00462 |
| KONTRON - 420 L | | |
| PST-KON3 | Piston Assembly - Sapphire | 92-00834 |
| SE-KON6 | Primary Piston Seal - Black | 35-99004 |
| SE-KON7 | Secondary Piston Seal - Clear | 35-30018 |
| SE-KON8 | P.T.F.E. Gasket | 87-00699 |
| CV-KON7 | Inlet Check Valve Assembly | 92-90003 |
| CV-KON8 | Outlet Check Valve Assembly | 92-90005 |
| KONTRON - 420 MDA | | |
| PST-KON4 | Piston Assembly - Sapphire | 92-90084 |
| SE-KON1 | Piston Seal - Black (Standard) | 35-99005 |
| SE-KON2 | Piston Seal - Black (Improved) | 35-99010 |
| SE-KON3 | Piston Seal - Yellow | 35-99017 |
| SE-KON4 | Piston Seal - Clear | 35-99011 |
| CV-KON1 | Inlet Check Valve Assembly (Isocratic) | 92-90007 |

| Cat.No. | Make & Model / Part Description | OEM Reference |
|--|--|---------------------|
| CV-KON2 | Inlet Check Valve Assembly (Gradient) | 92-90016 |
| CV-KON3 | Outlet Check Valve Assembly | 92-90008 |
| CV-KON4 | Check Valve Cartridge | N / A |
| KONTRON - 420 M | | |
| PST-KON5 | Piston Assembly - Sapphire | 92-00833 |
| SE-KON9 | Primary Piston Seal - Black | 35-99002 |
| SE-KON10 | Primary Piston Seal - Clear | 35-30024 |
| SE-KON11 | Primary Piston Seal - Red | 35-99014 |
| SE-KON12 | Secondary Piston Seal - Clear | 35-30016 |
| SE-KON13 | P.T.F.E. Gasket | 87-00692 |
| CV-KON1 | Inlet Check Valve Assembly (Isocratic) | 92-90007 |
| CV-KON2 | Inlet Check Valve Assembly (Gradient) | 92-90016 |
| CV-KON3 | Outlet Check Valve Assembly | 92-90008 |
| CV-KON9 | Dummy Check Valve Assembly | N / A |
| CV-KON4 | Check Valve Cartridge | N / A |
| KONTRON - 420 S | | |
| PST-KON6 | Piston Assembly - Sapphire | 92-00832 |
| SE-KON14 | Primary Piston Seal - Black | 35-99003 |
| SE-KON15 | Secondary Piston Seal - Clear | 35-30020 |
| SE-KON13 | P.T.F.E. Gasket | 87-00692 |
| CV-KON1 | Inlet Check Valve Assembly (Isocratic) | 92-90007 |
| CV-KON2 | Inlet Check Valve Assembly (Gradient) | 92-90016 |
| CV-KON3 | Outlet Check Valve Assembly | 92-90008 |
| CV-KON9 | Dummy Check Valve Assembly | N / A |
| CV-KON4 | Check Valve Cartridge | N / A |
| KONTRON - 420 SDA | | |
| PST-KON7 | Piston Assembly - Sapphire | 92-90083 |
| SE-KON16 | Primary Piston Seal - Black | 35-99008 |
| SE-KON17 | Primary Piston seal - Yellow | 35-99027 |
| SE-KON13 | P.T.F.E. Gasket | 87-00692 |
| CV-KON1 | Inlet Check Valve Assembly (Isocratic) | 92-90007 |
| CV-KON2 | Inlet Check Valve Assembly (Gradient) | 92-90016 |
| CV-KON3 | Outlet Check Valve Assembly | 92-90008 |
| CV-KON9 | Dummy Check Valve Assembly | N / A |
| CV-KON4 | Check Valve Cartridge | N / A |
| KONTRON - 500, 522, 525 | | |
| PST-KON8 | Piston Assembly - Zirconia | 67-90030 |
| SE-KON18 | Piston Seal - Yellow | 35-99025 |
| SE-KON19 | Piston Seal - Black | 35-99025C |
| CV-KON10 | Inlet Check Valve Assembly | 92-90277 |
| CV-KON3 | Outlet Check Valve Assembly | 92-90278 |
| CV-KON4 | Check Valve Cartridge | N / A |
| KRATOS - SF 400 Analytical | | |
| PST-KRA1 | Piston Assembly - Sapphire | 1400-1970 |
| SE-KRA1 | Piston Seal - Black | 7200-0088 |
| SE-KRA2 | Piston Seal - Yellow | N / A |
| SE-KRABR1 | Seal Backing Ring | N / A |
| SE-KRA3 | Piston Seal Kit | N / A |
| SE-KRA4 | Wash Seal | N / A |
| CV-KRA1 | Inlet Check Valve Assembly - Cartridge Type | Equiv. to 7200-0060 |
| CV-KRA2 | Outlet Check Valve Assembly - Cartridge Type | Equiv. to 7200-0062 |
| CV-KRA3 | Inlet / Outlet Check Valve Cartridge | N / A |
| KRATOS - SF 480 Preparative | | |
| PST-KRA2 | Piston Assembly - Zirconia | N / A |
| SE-KRA5 | Piston Seal - Black | N / A |
| CV-KRA4 | Inlet Check Valve Assembly | 7200-0060 |
| CV-KRA5 | Outlet Check Valve Assembly | 7200-0062 |
| CV-KRA6 | Inlet / Outlet Check Valve Repair Kit | N / A |
| LDC - any refer to THERMO SEPARATIONS - same | | |
| LKB PHARMACIA - ALPHA PLUS refer to ACS - 300 | | |

| Cat.No. | Make & Model / Part Description | OEM Reference |
|---|---|----------------------|
| LKB PHARMACIA - 2150, 2248, 2249, 2250 Analytical | | |
| PST-LKB1 | Piston Assembly - Sapphire (2150 only) | 80-1035-52 |
| PST-LKB2 | Piston Assembly - Sapphire (2248, 2249, 2250) | 80-1045-57 |
| SE-LKB1 | Piston Seal - Black | 80-1037-39 |
| SE-LKBRR1 | Seal Backing Ring | 80-1035-46 |
| CV-LKB1 | Inlet Check Valve Assembly - Cartridge Type | Equiv. to 80-1035-19 |
| CV-LKB2 | Outlet Check Valve Assembly - Cartridge Type | Equiv. to 80-1035-20 |
| CV-LKB3 | Inlet / Outlet Check Valve Cartridge | N / A |
| MSI - CONCEPT SERIES I to IV 10ml/min | | |
| PST-MSI1 | Piston Assembly - Sapphire | 121486 |
| SE-MSI1 | Piston Seal - Yellow | N / A |
| SE-MSI2 | Piston Seal - Black | N / A |
| SE-MSI3 | Wash Seal - Yellow | N / A |
| CV-MSI1 | Inlet / Outlet Check Valve Cartridge | N / A |
| MERCK HITACHI - 655, L6000, L6200 | | |
| PST-MER1 | Piston Assembly - Sapphire | 635-1021 |
| SE-MER1 | Piston Seal - Black | 655-1080 |
| SE-MER2 | Piston Seal - Clear | N / A |
| CV-MER1 | Inlet Check Valve Assembly - Cartridge Type | Equiv. To 885-1330 |
| CV-MER2 | Outlet Check Valve Assembly - Cartridge Type | Equiv. To 885-1331 |
| CV-MER3 | Inlet / Outlet Check Valve Cartridge | N / A |
| MERCK HITACHI - L2100, L2130, L7100, L7110 | | |
| PST-MER1 | Piston Assembly - Sapphire | 635-1021 |
| SE-MER1 | Piston Seal - Black | 655-1080 |
| SE-MER2 | Piston Seal - Clear | N / A |
| CV-MER4 | Inlet Check Valve Assembly - Cartridge Type | Equiv. To 810-1004 |
| CV-MER5 | Outlet Check Valve Assembly - Cartridge Type | Equiv. To 810-1005 |
| CV-MER6 | Inlet / Outlet Check Valve Cartridge | N / A |
| METROHM - any refer to BISCHOFF - 2200 | | |
| MICROMERITICS - 760 refer to BISCHOFF - 2200 | | |
| MILTON ROY - MINIPUMP refer to LDC - CONSTAMETRIC | | |
| PERKIN ELMER - SERIES 1, 2, 3, 4, 10 | | |
| SE-PER1 | H. P. Piston Seal - Black | 0990-7328 |
| SE-PER2 | H. P. Piston Seal - Yellow | 0990-7324 |
| SE-PER3 | H. P. Seal Backing Ring | 0254-2076 |
| SE-PER4 | L. P. Piston Seal - Black | 0990-7330 |
| SE-PER5 | L. P. Piston Seal - Yellow | 0990-7339 |
| PERKIN ELMER - SERIES 200, 400, 410, 620, Model 250, Integral 4000 | | |
| PST-PER1 | H. P. Piston Assembly - Sapphire | N2600124 |
| PST-PER2 | L. P. Piston Assembly - Sapphire | N2600104 |
| SE-PER1 | H. P. Piston Seal - Black | 09907328 |
| SE-PER2 | H. P. Piston Seal - Yellow | 09907324 |
| SE-PER3 | H. P. Seal Backing Ring | 02542076 |
| OR-PER1 | P. T. F. E. O Ring | 09902128 |
| SE-PER4 | L. P. Piston Seal - Black | 09907330 |
| SE-PER5 | L. P. Piston Seal - Yellow | 09907339 |
| SE-PERGB1 | L.P. Seal Guide Bush | 02542313 |
| CV-PER1 | Inlet / Intermediate Check Valve Assembly | 02540177 |
| CV-PER2 | Outlet Check Valve Assembly | 02540197 |
| CV-PER3 | Inlet / Intermediate / Outlet Check Valve Washer | 02542150 |
| CV-PER4 | Inlet / Intermediate / Outlet Check Valve Cartridge | N / A |
| PERKIN ELMER - SERIES 200 Micro | | |
| PST-PER3 | H.P. Piston Assembly - Sapphire | N2910511 |
| PST-PER4 | L.P. Piston Assembly - Sapphire | N2910512 |
| SE-PER6 | H. P. Piston Seal - Yellow c/w Back Up | 09923367 |
| OR-PER1 | P. T. F. E. O Ring | 09902128 |
| SE-PER7 | L. P. Piston Seal - Black | 09923366 |
| SE-PER8 | L. P. Piston Seal - Yellow | N / A |
| SE-PER9 | L. P. Seal Guide Bush | N2915006 |
| CV-PER1 | Inlet / Intermediate Check Valve Assembly | 02540177 |
| CV-PER2 | Outlet Check Valve Assembly | 02540197 |

| Cat.No. | Make & Model / Part Description | OEM Reference |
|--|---|---------------------------|
| CV-PER3 | Inlet / Intermediate / Outlet Check Valve Washer | 02452150 |
| CV-PER4 | Inlet / Intermediate / Outlet Check Valve Cartridge | N / A |
| PERKIN ELMER - SERIES 604 refer to LDC - CONSTAMETRIC | | |
| PHARMACIA - P3500 refer to DIONEX - 300C | | |
| PHILLIPS SCIENTIFIC - any refer to UNICAM - same | | |
| PYE (UNICAM) - XPD refer to BECKMAN - 100 | | |
| PYE (UNICAM) - XPS refer to BECKMAN - 110 | | |
| RANK HILGER - AAA refer to LDC - CONSTAMETRIC | | |
| RAININ - 200 & 300 refer to GILSON - 30X | | |
| SEVERN ANALYTICAL - any refer to DIONEX - 300C | | |
| SHIMADZU - LC-3, LC-4, LC-5 | | |
| PST-SHZ1 | Piston Assembly - Sapphire | 228-08355-91 |
| SE-SHZ1 | Piston Seal - Black (was Grey) | 228-35145 (was 228-11999) |
| SE-SHZ2 | Piston Seal - Yellow | 228-21975 |
| CV-SHZ1 | Inlet Check Valve Assembly | 228-12353-91 |
| CV-SHZ2 | Outlet Check Valve Assembly | 228-09054 |
| CV-SHZ3 | Inlet / Outlet Check Valve Rebuild Kit | 228-11200-91 |
| CV-SHZ4 | Inlet / Outlet Check Valve Cartridge | N / A |
| SHIMADZU - LC-6, LC-6A | | |
| PST-SHZ2 | Piston Assembly - Sapphire | 228-12904-93 |
| SE-SHZ1 | Piston Seal - Black (was Grey) | 228-35145 (was 228-11999) |
| SE-SHZ2 | Piston Seal - Yellow | 228-21975 |
| CV-SHZ1 | Inlet Check Valve Assembly | 228-12353-91 |
| CV-SHZ2 | Outlet Check Valve Assembly | 228-09054-93 |
| CV-SHZ3 | Inlet / Outlet Check Valve Rebuild Kit | 228-11200-91 |
| CV-SHZ4 | Inlet / Outlet Check Valve Cartridge | N / A |
| BA-SHZ1 | Bearing Assembly | 228-14167-11 |
| SHIMADZU - LC-8 | | |
| SE-SHZ3 | Piston Seal - Grey | 228-18092 |
| SE-SHZ4 | Secondary Seal - Black | 228-18306 |
| CV-SHZ2 | Outlet Check Valve Assembly | 228-09054-93 |
| CV-SHZ3 | Outlet Check Valve Rebuild Kit | 228-11200-91 |
| CV-SHZ4 | Outlet Check Valve Cartridge | N / A |
| SHIMADZU - LC-9, LC-10AD, LC-600 | | |
| PST-SHZ3 | Piston Assembly - Sapphire | 228-18523-91 |
| SE-SHZ5 | Piston Seal - Black (was Grey) | 228-35146 (was 228-18745) |
| SE-SHZ6 | Piston Seal - Yellow | 228-32628-91 |
| CV-SHZ5 | Inlet Check Valve Assembly - Cartridge Type | Equiv. to 228-18522-91 |
| CV-SHZ6 | Outlet Check Valve Assembly - Cartridge Type | Equiv. to 228-18522-92 |
| CV-SHZ7 | Inlet / Outlet Check Valve Cartridge | N / A |
| SHIMADZU - LC-10 ADVP, LCMS 2010A, Prominence LC-20AD/B | | |
| PST-SHZ4 | Piston Assembly - Zirconia | 228-35601-91 |
| SE-SHZ5 | Piston Seal - Black | 228-35146 |
| SE-SHZ6 | Piston Seal - Yellow | 228-32628-91 |
| CV-SHZ8 | Inlet Check Valve Assembly - Cartridge Type | Equiv. to 228-39093-92 |
| CV-SHZ9 | Outlet Check Valve Assembly - Cartridge Type | Equiv. to 228-34976-91 |
| CV-SHZ10 | Inlet / Outlet Check Valve Cartridge | N / A |
| SHIMADZU - LC-10 AS | | |
| PST-SHZ5 | Piston Assembly - Sapphire | 228-17019-00 |
| SE-SHZ1 | Piston Seal - Black | 228-35145-00 |
| SE-SHZ2 | Piston Seal - Yellow | 228-21975 |
| SE-SHZ7 | Wash Seal - White | 228-28499 |
| CV-SHZ1 | Inlet Check Valve Assembly | 228-12353-91 |
| CV-SHZ2 | Outlet Check Valve Assembly | 228-09054-93 |
| CV-SHZ3 | Inlet / Outlet Check Valve Rebuild Kit | 228-11200-91 |
| CV-SHZ4 | Inlet / Outlet Check Valve Cartridge | N / A |

| Cat.No. | Make & Model / Part Description | OEM Reference |
|--|---|------------------------|
| SHIMADZU - LC-10 AT | | |
| SE-SHZ1 | Piston Seal - Black | 338-35145-00 |
| SE-SHZ2 | Piston Seal - Yellow | 228-21975-00 |
| SE-SHZ7 | Wash Seal - White | 228-28499-00 |
| CV-SHZ11 | Inlet Check Valve Assembly - Cartridge Type | Equiv. to 288-32166-91 |
| CV-SHZ4 | Inlet Check Valve Cartridge | N / A |
| CV-SHZ9 | Outlet Check Valve Assembly - Cartridge Type | Equiv. to 288-32531-92 |
| CV-SHZ10 | Outlet Check Valve Cartridge | N / A |
| SHIMADZU - LC-10 ATPV, Prominence LC-20AT | | |
| PST-SHZ6 | Piston Assembly - Zirconia | 228-35009-92 |
| PST-SHZ7 | Piston Assembly - Sapphire | 228-35009-91 |
| SE-SHZ1 | Piston Seal - Black | 228-35145-00 |
| SE-SHZ2 | Piston Seal - Yellow | 228-21975-00 |
| SE-SHZ7 | Wash Seal - White | 228-28499-00 |
| CV-SHZ11 | Inlet Check Valve Assembly - Cartridge Type | Equiv. to 228-32166-91 |
| CV-SHZ4 | Inlet Check Valve Cartridge | N / A |
| CV-SHZ9 | Outlet Check Valve Assembly - Cartridge Type | Equiv. to 228-34976-91 |
| CV-SHZ10 | Outlet Check Valve Cartridge | N / A |
| SHIMADZU - SIL-10ADVP | | |
| PST-SHZ8 | Piston Assembly - Sapphire | 228-35010-91 |
| SE-SHZ1 | Piston Seal - Black | 228-35145 |
| SPECTRA-PHYSICS - any refer to THERMO SEPARATIONS - same | | |
| SUNCHROM - SUNFLOW 100 refer to KNAUER - K120 | | |
| THERMO-SEPARATIONS - 8100, 8700 | | |
| PST-TSP1 | Piston Assembly - Sapphire | A 1593-010 |
| SE-TSP1 | Piston Seal - Yellow | N / A |
| SE-TSP2 | Piston Seal - Black | N / A |
| CV-TSP1 | Inlet Check Valve Assembly | A 3485-010 |
| CV-TSP2 | Outlet Check Valve Assembly | A 3480-010 |
| THERMO SEPARATIONS - 8800, 8810, ISOCHROM, P-SERIES | | |
| PST-TSP2 | Piston Assembly - Sapphire | A 3102-010 |
| PST-TSPGB1 | Piston Guide Bush | A 5018-010 |
| PST-TSPRS1 | Piston Return Spring | A 4448-010 |
| SE-TSP3 | Piston Seal - Yellow | A 2962-010 |
| SE-TSP4 | Piston Seal - Black | A 2962-020 |
| SE-TSP5 | Piston Seal - Clear (New) | A 2962-050 |
| SE-TSP6 | Piston Seal - Clear (Old) | N / A |
| SE-TSP7 | Seal Assembly Tool | A 3216-010 |
| SE-TSP8 | Piston Wash Seal - White | A 2963-010 |
| SE-TSP9 | Seal Housing Washer - Old | A 2973-010 |
| SE-TSP10 | Seal Housing Washer - New | A 4848-010 |
| CV-TSP1 | Inlet Check Valve Assembly | A 3495-010 |
| CV-TSP2 | Outlet Check Valve Assembly | A 3490-010 |
| CV-TSP3 | Transducer Check Valve Assembly | A 3990-010 |
| CV-TSP4 | Inlet / Outlet / Transducer Check Valve Rebuild Kit | A 3995-010 |
| CV-TSP5 | Inlet / Outlet Check Valve Cartridge | N / A |
| CV-TSP6 | Inlet Reservoir Filter Assembly | A 4929-010 |
| CV-TSP7 | Back Flush Kit | A 4114-010 |
| CV-TSP8 | Purge Valve Stem | A 4412-010 |
| THERMO SEPARATIONS - 8800, 8810, ISOCHROM, P-SERIES INERT BIO VERSION | | |
| PST-TSP2 | Piston Assembly - Sapphire | A 3102-010 |
| PST-TSPGB1 | Piston Guide Bush | A 5018-010 |
| SE-TSP11 | Piston Seal - Black | N / A |
| SE-TSP12 | Piston Seal - Yellow | A 3207-010 |
| SE-TSP13 | Piston Seal - Clear (New) | N / A |
| SE-TSP7 | Seal Assembly Tool | A 3216-010 |
| SE-TSP8 | Piston Wash Seal - White | A 2963-010 |
| SE-TSP9 | Seal Housing Washer - Old | A 2973-010 |
| SE-TSP10 | Seal Housing Washer - New | A 4848-010 |
| CV-TSP9 | Inlet Check Valve Assembly | A 3893-010 |
| CV-TSP10 | Transducer Check Valve Assembly | A 3894-010 |
| CV-TSP8 | Purge Valve Stem | A 4412-010 |
| CV-TSP7 | Back Flush Kit | A 4114-010 |

| Cat.No. | Make & Model / Part Description | OEM Reference |
|---|--|----------------|
| CV-TSP11 | Inlet Reservoir Filter Assembly | A 4258-010 |
| PST-TSPRS1 | Piston Return Spring | A 4448-010 |
| THERMO SEPARATIONS - CONSTAMETRIC I, II, III, 3000, 4000 | | |
| PST-TSP3 | Piston Assembly - Sapphire | 8013060000 |
| SE-TSP14 | Piston Seal - Black | 2061290010 |
| SE-TSP15 | Piston Seal - Yellow | 2062340000 |
| SE-TSP16 | Standard Seal Kit - Black | 8015980000 |
| SE-TSP17 | Standard Seal Kit - Yellow | 8018920010 |
| SE-TSP18 | Improved Seal Kit - Black | N / A |
| SE-TSP19 | Improved Seal Kit - Yellow | N / A |
| SE-TSP20 | Crosshead Spring | 9160282000 |
| CV-TSP12 | Inlet Check Valve Assembly Cartridge Type | 9009470010 |
| CV-TSP13 | Outlet Check Valve Assembly Cartridge Type | 9009470020 |
| CV-TSP14 | Inlet / Outlet Check Valve Cartridge | 9009470000 |
| CV-TSP15 | Inlet Nut and Ferrule | 1960066976 |
| CV-TSP16 | Outlet Nut and Ferrule | 1960066975 |
| CV-TSP17 | Inlet / Outlet Check Valve Cartridge 4100 Only | 9009460000 |
| THERMO SEPARATIONS - Surveyor LC | | |
| PST-TSP4 | Piston Assembly - Zirconia | 00950-30020Z |
| PST-TSP5 | Piston Assembly - Sapphire | 00950-30020S |
| SE-TSP21 | Piston Seal - Black | 00950-30004B |
| SE-TSP22 | Piston Seal - Yellow | 00950-30004Y |
| SE-TSP23 | Wash Seal White | 00950-30025 |
| CV-TSP17 | Inlet Check Valve Assembly - Cartridge Type | 00950-30026 |
| CV-TSP18 | Inlet Check Valve Cartridge | N / A |
| CV-TSP19 | Outlet Check Valve Assembly - Cartridge Type | 00950-30021 |
| CV-TSP20 | Outlet Check Valve Cartridge | N / A |
| THERMO SEPARATIONS - Surveyor MS | | |
| PST-TSP6 | Piston Assembly - Zirconia | 00201-11324 |
| SE-TSP24 | Piston Seal - Black | 00107-18110 |
| SE-TSP25 | Piston Seal - Clear | 00107-18111 |
| SE-TSP26 | Wash Seal - Clear | 00107-18114 |
| CV-TSP21 | Inlet / Outlet Check Valve Cartridge | 00110-05110 |
| UNICAM - Crystal 200 | | |
| PST-UNI1 | Piston Assembly - Sapphire | 4013-229-56381 |
| SE-UNI1 | Primary Piston Seal - Black | 4013-229-64181 |
| SE-UNI2 | Secondary Piston Seal - White | 4013-229-56401 |
| SE-UNI3 | PTFE Film Sealing Washer | 4013-229-57221 |
| CV-UNI1 | Inlet Check Valve Cartridge | 4013-229-56411 |
| CV-UNI2 | Outlet Check Valve Cartridge | 4013-229-56411 |
| CV-UNI3 | Ball Check Valve | 4013-229-56421 |
| CV-UNI4 | Ceramic Ball Guide | 4013-229-56451 |
| PFR-UNI1 | Polymer Flange Ring | 4013-229-56431 |
| PFR-UNI2 | Polymer Retaining Ring | 4013-229-56461 |
| PST-UNI2 | Sapphire Pump Head Liner | 4013-229-56471 |
| PST-UNIBR1 | Backing Ring | 4013-229-55691 |
| PST-UNI4 | Ceramic Bush - Wash Assembly | 4013-229-56472 |
| UNICAM - 4010, 4012, 4015 | | |
| PST-UNI2 | Piston Assembly - Sapphire | 4013-172-01041 |
| SE-UNI5 | Piston Seal - Black | 2613-080-90803 |
| UNICAM - 4100 | | |
| PST-UNI3 | Piston Assembly - Sapphire | 4013-172-49661 |
| SE-UNI3 | Piston Seal - Black | 4013-228-36541 |
| SE-UNI4 | Piston Seal - Clear | 4013-228-36661 |
| CV-UNI5 | Inlet / Outlet Check Valve Cartridge | 4013-227-9999 |
| CV-UNI6 | Check Valve Washer | 4013-229-81891 |
| VARIAN - LC-920 refer to Merck-Hitachi - L2130 | | |
| VARIAN - 2010, 2210, 2510 | | |
| PST-VAR1 | Piston Assembly - Sapphire | 00-997261-08 |
| SE-VAR1 | Piston Seal - Yellow | 00-997261-37 |
| SE-VAR2 | Piston Seal - Black | N / A |
| CV-VAR1 | Inlet Check Valve Assembly | 00-997261-09 |

| Cat.No. | Make & Model / Part Description | OEM Reference |
|---|---|---|
| CV-VAR2 CV-VAR3 | Outlet Check Valve Assembly Inlet / Outlet Check Valve Cartridge | 00-997261-10 N / A |
| | VARIAN - 5000, 5500, 5600 | |
| PST-VAR2 SE-VAR3 CV-VAR4 SE-VAR4 | Piston Assembly - Sapphire Piston Seal - Black Inlet Valve O Ring Dynamic Seal - Black | 03-905337-00 27-459632-00 27-402107-00 03-905065-00 |
| | VARIAN - 9000, 9010, 9012, 230, Star | |
| PST-VAR3 SE-VAR5 SE-VAR6 CV-VAR5 CV-VAR6 | Piston Assembly - Sapphire Piston Seal - Yellow Piston Seal - Black Active Inlet Check Valve Assembly Outlet Check Valve Assembly | 03-919102-90 03-919101-00 N / A 03-919089-00 03-919465-00 |
| | WATERS - M45, M501 (100ul head) | |
| PST-WAT1 SE-WAT1 SE-WAT2 CV-WAT1 CV-WAT2 CV-WAT3 CV-WAT4 CV-WAT5 CV-WAT6 CV-WAT7 | Piston Assembly - Sapphire Piston Seal - Black Piston Seal - Clear Inlet Check Valve Assembly Inlet Check Valve Repair Kit Outlet Check Valve Assembly Ball & Seat Type Outlet Check Valve Repair Kit for 25216 Outlet Check Valve Assembly Actuator Type Outlet Check Valve Repair Kit for 25028 Performance Plus Sapphire Check Valve Cartridge | WAT026524 WAT026613 WAT022934 WAT025214 WAT060495 WAT025216 WAT026014 WAT025028 WAT026016 700000254 |
| | Avonchem Alternate Check Valves : | |
| CV-WAT8 CV-WAT9 CV-WAT10 CV-WAT11 | Inlet / Outlet Check Valve Body Inlet / Outlet Check Valve Cartridge Inlet Check Valve Adapter Outlet Check Valve Adapter | N / A N / A N / A N / A |
| | WATERS - M510, M590, M600, M610, M6000 (100ul head) | |
| PST-WAT2 PST-WAT3 SE-WAT1 SE-WAT2 CV-WAT1 CV-WAT2 CV-WAT5 CV-WAT6 CV-WAT3 CV-WAT4 CV-WAT7 | P.M. Kit for 600 Pump Piston Assembly - Sapphire Piston Seal - Black Piston Seal - Clear Inlet Check Valve Assembly Inlet Check Valve Repair Kit Outlet Check Valve Assembly Actuator Type Outlet Check Valve Repair Kit for 25028 Outlet Check Valve Assembly Ball & Seat Type Outlet Check Valve Repair Kit for 25216 Performance Plus Sapphire Check Valve Cartridge | WAT052675 WAT025656 WAT026613 WAT022934 WAT025214 WAT060495 WAT025028 WAT026016 WAT025216 WAT026014 700000254 |
| | Avonchem Alternate Check Valves : | |
| CV-WAT8 CV-WAT9 CV-WAT10 CV-WAT11 | Inlet / Outlet Check Valve Body Inlet / Outlet Check Valve Cartridge Inlet Check Valve Adapter Outlet Check Valve Adapter | N / A N / A N / A N / A |
| | WATERS - M510EF, M590EF, M600EF, M610EF, M6000EF (225ul head) | |
| PST-WAT4 SE-WAT3 SE-WAT4 CV-WAT12 CV-WAT13 CV-WAT14 CV-WAT15 | Piston Assembly - Sapphire Piston Seal - Grey Piston Seal - Yellow Inlet Check Valve Assembly Inlet Check Valve Repair Kit Outlet Check Valve Assembly Outlet Check Valve Repair Kit | WAT060304 WAT026644 700002282 WAT060307 WAT088223 WAT033326 WAT088223 |
| | WATERS - M515 (100ul head) | |
| PST-WAT5 PST-WAT6 SE-WAT1 SE-WAT2 CV-WAT1 CV-WAT2 CV-WAT3 | P.M. Kit for 515 Pump Piston Assembly - Sapphire Piston Seal - Black Piston Seal - Clear Inlet Check Valve Assembly Inlet Check Valve Repair Kit Outlet Check Valve Assembly | WAT052587 WAT207069 WAT026613 WAT022934 WAT025214 WAT060495 WAT025216 |

| Cat.No. | Make & Model / Part Description | OEM Reference |
|---|--|---|
| CV-WAT4 | Outlet Check Valve Repair Kit | WAT026014 |
| CV-WAT7 | Performance Plus Sapphire Check Valve Cartridge | 70000254 |
| Avonchem Alternate Check Valves : | | |
| CV-WAT8 | Inlet / Outlet Check Valve Body | N / A |
| CV-WAT9 | Inlet / Outlet Check Valve Cartridge | N / A |
| CV-WAT10 | Inlet Check Valve Adapter | N / A |
| CV-WAT11 | Outlet Check Valve Adapter | N / A |
| WATERS - 616, 625, 626 (50ul head) | | |
| PST-WAT7 | P.M. Kit for 616 Pump | WAT052672 |
| PST-WAT8 | Plunger Kit and Rod | WAT031788 |
| SE-WAT5 | Seal Kit | WAT031790 |
| CV-WAT16 | Inlet / Outlet Check Valve Cartridge - 616 | WAT024960 |
| CV-WAT17 | Inlet / Outlet Check Valve Cartridge - 625 & 626 | WAT024120 |
| WATERS - 1525 Micro (50ul head) | | |
| PST-WAT9 | Piston Assembly - Sapphire | WAT030547 |
| SE-WAT6 | Seal Kit | WAT034515 |
| CV-WAT18 | Performance Plus C/V Cartridge | 700002275 |
| WATERS - 1525 Analytical (100ul head) | | |
| PST-WAT10 | Piston Assembly - Sapphire | WAS207069 |
| SE-WAT2 | Piston Seal - Clear | WAT022934 |
| SE-WAT1 | Piston Seal - Black | WAT026613 |
| CV-WAT19 | Performance Plus Sapphire Check Valve Cartridge | 700000254 |
| WATERS - 1525 EF (225ul head) | | |
| PST-WAT4 | Piston Assembly - Sapphire | WAT060304 |
| SE-WAT3 | Piston Seal - Grey | WAT026644 |
| SE-WAT4 | Piston Seal - Yellow | 700002282 |
| CV-WAT12 | Inlet Check Valve Assembly | WAT060307 |
| CV-WAT3 | Outlet Check Valve Assembly | WAT025216 |
| WATERS - Alliance 2690, 2695, 2790, 2795 | | |
| PST-WAT11 | P.M. Kit for Alliance 2690 + | WAT270944 |
| PST-WAT12 | Piston Assembly - Sapphire | WAT270959 |
| SE-WAT7 | Piston Seal - Yellow | (WAT270488 = pk of 2) WAT270789 |
| SE-WAT8 | Piston Seal - Black | (WAT270938 = pk of 2) WAT270790 |
| SE-WAT9 | Piston Seal - Clear | (WAT271066 = pk of 2) N / A |
| SE-WAT10 | Seal Wash - Plunger Seal - Yellow | (700001326 = pk of 2) WAT270160 |
| SE-WAT11 | Seal Wash - Face Seal - White | (WAT271018 = pk of 2) WAT271051 |
| SE-WAT12 | Face Seal - Spring loaded - Yellow | (WAT271017 = pk of 2) WAT270163 |
| SE-WAT13 | Face Seal - Spring less - Beige | (WAT270939 = pk of 4) Alternative to WAT270163 |
| SE-WAT14 | Wash Tube Kit Seal - Clear | (WAT270939 = pk of 4) WAT270668 |
| CV-WAT20 | Check Valve Cartridge | (WAT270940 = pk of 4) Equiv. To WAT270669 (WAT270941 = pk of 2) |
| WATERS - Miscellaneous | | |
| SR-WAT1 | Solvent Reservoir Filter 10um | WAT025531 |
| SE-WAT15 | HPMV V1 + V2 Needle Seal - Yellow | WAT045454 |



Avonchem Ltd

Wellington House, Waterloo Street West
Macclesfield, Cheshire
SK11 6PJ
United Kingdom

Tel: +44 (0)1625 434300

Fax: +44 (0)1625 869777

Email: info@avonchem.co.uk

www.avonchem.co.uk