

## OPTI-MAX® Cartridge Check Valve System

The check valve is a critical pump head component, and is instrumental in the delivery of stable, pulse-free flow rates. The OPTIMAX® Cartridge Check Valve System was designed to offer superior performance and versatility, and is manufactured to the tightest specifications in the industry.

### OPTI-MAX Cartridges: A Universal Solution

A single OPTI-MAX cartridge is interchangeable across multiple pump brands, allowing you to minimize the number of spare check valve cartridges in your inventory, and will function in either the inlet or outlet position. OPTI-MAX Cartridges are available in PEEK or stainless steel, loaded with precision-matched ball and seat sets in ceramic or ruby/sapphire. Three ball/seat sizes are available, providing optimal performance for microbore, standard and extended flow applications.

The performance of a check valve can only be as good as the integrity of the seal made between the ball and seat inside it. All ball and seat sets used in OPTI-MAX cartridges are precision-matched to the most exacting standards in the industry, and must pass Nitrogen leak tests four times more stringent than those specified by most other manufacturers.



| Brand                   | Model   | Replacement Cartridge (2pk)                  | Inlet       | Outlet                     |
|-------------------------|---|--|-------------|----------------------------|
| ABI/Kratos              | Spectraflow 400   | 10-56-02004                                  | 21-56-00451 | 21-56-00460                |
|                         | Gynkotek 300 & M480   | 10-46-02004                                  | 44-46-00451 | 44-46-00460                |
| Agilent                 | 1050, 1100  | 10-56-02004                                  |             | 27-56-01330                |
| Beckman/Altex           | 110A, 110A/B, 112/112M, 114/114M, 116, 118, 125, 126, 127, 128            | 10-66-02005                                  | 22-66-00516 | 22-66-00520                |
| Bio-Rad                 | 1330, 1350  | 10-56-02004                                  | 23-56-00546 | 23-56-00551                |
| Bischoff                | Micromeritics 760, (Analytical), 2200, SM909                              | 10-56-02004                                  | 24-56-00576 | 24-56-00581                |
|                         | Micromeritics 760, (Microbore), 2200, SM909                               | 10-46-02004                                  | 24-46-00585 | 24-46-00589                |
| Dionex                  | GP-40/IP20, DQP, GPM-1, DRP, GPM-2, DXP, AGP (Analytical), 2000, 4000     | 10-58-02004                                  | 25-58-00613 | 25-58-00612                |
| Hitachi                 | 655, L-6000, L-6200, L-6200A  | 10-46-02004                                  | 28-46-00703 | 28-46-00712                |
|                         | L-7100  | 10-46-02004                                  | 28-46-02092 | 28-46-02094                |
| Jasco                   | BIP 1   | 10-56-02004                                  | 42-56-01038 | 42-56-01043                |
|                         | 880/980 Series  | 10-56-02004                                  | 42-56-01544 | 42-56-01546                |
| LKB/Pharmacia           | LKB-2150, 2248  | 10-46-02004                                  | 32-46-00782 | 32-46-00787                |
| Perkin-Elmer            | Series 1, 2, 3, 3b, 10  | 10-56-02004                                  | 33-56-00840 | 33-56-00845                |
|                         | 250, Series 4, 200, 400, 410, 620, Intergral 4000                         | 10-56-02004                                  | 33-56-00830 | 33-56-00835                |
| Shimadzu                | LC-10AT, LC-10ATVP  | 10-46-02004                                  | 34-46-01983 | 34-46-00893                |
|                         | LC-10ADVP (also ESA model 582)  | 10-46-02004                                  | 34-46-02644 | 34-46-00893                |
|                         | LC-10AD, LC-600, LC-9A (also ESA model 580)                               | 10-46-02004                                  | 34-46-00885 | 34-46-00893                |
|                         | LC-10AS, LC-6A  | 10-56-02004                                  | 34-56-00902 | 34-56-00907                |
|                         | LC-8A   | 10-66-02005 (inlet),<br>10-56-02004 (outlet) |             | 34-66-02112<br>34-56-00907 |
| SSI                     | 200 Series, Model 300 (also BAS PM-48 ESA 5700 SDM, Dupont 8800)          | 10-56-02004                                  | 36-56-00982 | 36-56-00987                |
| Thermo: LDC, Milton Roy | All Analytical (Including MiniMetric, Constametric, MiniPump)             | 10-56-02004                                  | 31-56-00759 | 31-56-00764                |
| Thermo: Spectra-Physics | 8700, 8800, 8810, IsoChrom, P-Series                                      | 10-56-02004                                  | 35-56-00956 | 35-56-00961                |
| Varian: Gilson, Rainin  | 5, 10, 25, ML S/SC Heads (Gilson, Rainin HP, HPX, HPXL, SD 200/300)       | 10-56-02004                                  | 26-56-00638 | 26-56-00647                |
| Varian                  | 2010  | 10-56-02004                                  | 38-56-01038 | 38-56-01043                |
|                         | 2510  | 10-56-02004                                  | 38-56-01544 | 38-56-01546                |
|                         | 9000 STAR, 9010, 9012   | 10-56-02004                                  |             | 38-56-01067                |
| Waters                  | 2690/Alliance, 616  | 10-46-02004                                  | 39-46-01949 | 39-46-01950                |
|                         | M45/45G, M501, 510, 515, 590, 600/600E, 610, 6K/6KA (100 µl Head Systems) | 10-56-02004                                  | 39-56-01251 | 39-56-01256                |
|                         | (#3) Systems (510, 590, 600/600E, 610, 650, 6K/6KA) 225 µl Head           | 10-66-02005 (inlet)<br>10-56-02004 (outlet)  |             | 39-66-01262<br>39-56-01256 |
|                         | 400 µl & 900 µl Heads, Delta Prep 3000, 600/600E, 650                     | 10-66-02005                                  |             | 39-66-01267                |
|                         | 625/626   | 10-48-02004                                  | 39-48-01907 | 39-48-01909                |