

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	10-56-00840	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), 10-56-02004 (outlet)	34-66-02112 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) 10-56-02004 (outlet)	39-66-01262 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