

# AGILENT / HEWLETT PACKARD

Optimize has developed the new OPTI-MAX 600 bar Active Inlet replacement cartridge (AIV). The AIV is comparable in price to the 400 bar active inlet cartridge offered by Agilent.

The OPTI-MAX 600 bar AIV utilizes the proprietary OPTI-MAX technology with wetted materials of 316 SS, PEEK and zirconia (ceramic) for complete compatibility and reliability in both 400 bar and 600 bar applications. The OPTI-MAX Zirconia ball/seat sets are the best in the industry and are individually tested to perform at 3 bubbles or less in the industry-standard 90 psi nitrogen leak test. The OPTI-MAX AIV withstands well over 20,000 psi as an assembled cartridge. Ball travel is minimized allowing the cartridge to exhibit extremely low pulsation in both 600 bar and 400 bar applications. The rugged 316 stainless steel OPTI-MAX AIV cartridge body is easily inserted and tightened for the higher pressure application of 600 bar instruments. The cartridge is completely compatible with both 600 and 400 bar instruments.

By choosing the OPTI-MAX 600 bar AIV cartridge, laboratories with multiple Agilent 400 bar and 600 bar instruments need only purchase and inventory one OPTI-MAX AIV cartridge. Maintenance and repair become much simpler and less costly.

Please note: this cartridge is not compatible with valve body 0491-0131

## OPTI-MAX® 600 BAR AIV CHECK VALVE CARTRIDGE FOR AGILENT SYSTEMS

Part #	OEM #
<b>27-38-04713</b>	G1312-60020, 5062-8562



### Compatible Pumps

Agilent 1100 Quaternary Pump (G1311A)  
 Agilent 1100 Binary Pump (G1312A)  
 Agilent 1100 Capillary Pump (G1376A)  
 Agilent 1200 Isocratic Pump (G1310A)  
 Agilent 1200 Binary Pump (G1312C)  
 Agilent 1260 Infinity Binary Pump (G1312B)  
 Agilent 1260 Infinity Isocratic Pump (G1310B)  
 Agilent 1260 Infinity Quaternary Pump (G1311B)  
 Agilent 1260 Infinity Quaternary Pump VL (G1311C)

### Key Features

- Wetted materials: 316 SS, PEEK and zirconia (ceramic)
- Compatible with both 400 bar and 600 bar applications
- Rated to 20,000+ psi
- OPTI-MAX Zirconia (ceramic) ball/seat set individually tested
- Reduces inventory
- Comparable in price to the standard 400 bar Agilent replacement cartridge

## OPTI-MAX® CHECK VALVES

### Agilent/HP 1050, 1100, 1200, 1220, 1260

		OEM #
<b>27-56-01330</b>	OPTI-MAX Outlet Housing & Cartridge	G1311-60012, G1312-60012
<b>10-56-02004</b>	OPTI-MAX Replacement Cartridges, 1/8" Ball, 2/Pk	
<b>27-38-04713</b>	OPTI-MAX 600 bar AIV Replacement Cartridge	G1312-60020, 5062-8562
<b>27-46-05033</b>	OPTI-MAX Passive Inlet Housing & Cartridge for Agilent 1220 and 1260 only	G1312-60066
<b>10-46-02004</b>	OPTI-MAX Replacement Cartridges, 1/16" Ball, 2/Pk	

OPTIONS: Stainless steel/ceramic OPTI-MAX Cartridges are listed above. For other options, please see page 50.

### Agilent/HP 1090

		OEM #
<b>27-38-00680</b>	Inlet Housing & Cartridge	79835-25211
<b>27-38-00682</b>	Outlet Housing & Cartridge	79835-25211
<b>27-38-00672</b>	Replacement Cartridges, 2/Pk	79835-67101

## SEALS, PISTONS & OTHER PARTS

### Agilent/HP 1050, 1100

		OEM #
<b>27-36-01570</b>	OPTI-SEAL UHMW-PE* Piston Seal	0905-1420
<b>27-36-01571</b>	OPTI-SEAL UHMW-PE* Piston Seal, 10/Pk	
<b>27-36-01572</b>	ITB PTFE** Piston Seal	5063-6589
<b>27-36-01573</b>	ITB PTFE** Piston Seal, 10/Pk	
<b>27-36-03073</b>	PTFE*** Pump Seal, Green, Premium Grade	
<b>27-36-03074</b>	PTFE*** Pump Seal, Green, Premium Grade, 10/Pk	
<b>27-36-02364</b>	OPTI-SEAL UHMW-PE* Wash Seal	0905-1175
<b>27-36-02365</b>	OPTI-SEAL UHMW-PE* Wash Seal, 10/Pk	
<b>27-36-02366</b>	ITB PTFE** Wash Seal	0905-1175
<b>27-36-02367</b>	ITB PTFE** Wash Seal, 10/Pk	
<b>27-36-02851</b>	Gasket Wash Seal, 6/Pk	5062-2484
<b>27-04-02852</b>	PTFE Frits, 5/Pk	01018-22707
<b>27-31-02853</b>	2-in-1 Seal Cap (Replaces OEM Gold Seal - see next page for details)	5067-4728, 5062-2485
<b>27-34-00658</b>	Sapphire Piston	5063-6586

\*UHMW-PE - Ultra High Molecular Weight Polyethylene

\*\*ITB PTFE - Improved PTFE Blend

\*\*\*Premium grade PTFE for maximum chemical compatibility and wear resistance



OPTI-MAX for Agilent



AIV Replacement Cartridge



Agilent Passive inlet



Agilent/HP 1090, Outlet Housing & Cartridge



27-36-01570



27-36-02364



27-36-02366



27-36-01572



27-34-00658

## AGILENT / HEWLETT PACKARD



2-in-1 Seal Cap on Agilent

**2-IN-1 SEAL CAP FOR 1050/1100/1200**

The 2-in-1 Seal Cap replaces both the OEM outlet gold seal and outlet cap with a single component. Use it on purge valves, OEM outlet check valves or anywhere on 1050/1100/1200 systems where gold seals and outlet caps are required.

**Agilent/HP 1050, 1100, 1200**

<b>27-31-02853</b>	2-in-1 Seal Cap	<b>OEM #</b> 5062-2485, 5001-3707, 5067-4728
--------------------	-----------------	---

Autosampler  
Replacement Parts

## AUTOSAMPLER REPLACEMENT PARTS

**Agilent/HP 1100, 1200**

<b>27-31-03212</b>	Rotor Seal Assembly	<b>OEM #</b> 0100-1853
<b>27-31-03329</b>	Needle Seat Assembly	G1313-87101

**Agilent/HP 1050**

<b>27-31-03603</b>	Rotor Seal	<b>OEM #</b> 0101-0626
--------------------	------------	---------------------------

**Agilent/HP 1090**

<b>27-31-03649</b>	Rotor Seal, 3 Grooves, Polyimide	<b>OEM #</b> 7010-039
<b>27-31-03670</b>	Rotor Seal, 2 Grooves, Polyimide	0101-0623

Rotor Seal  
27-31-03603


## LAMPS

**Agilent/HP**

<b>27-32-02844</b>	Deuterium Lamp, 1050C, 1050DAD, 1090, 1040	<b>OEM #</b> 79883-60002
<b>27-32-02845</b>	DoubleLife Deuterium Lamp, 1100, 1200 DAD	5181-1530, 2140-0813
<b>27-32-02846</b>	DoubleLife Deuterium Lamp, 1100, 1200 VWD	G1314-60100
<b>27-32-02715</b>	Deuterium Lamp, 1100 VWD G1314A	G1314-60100
<b>27-32-04038</b>	Doublelife Deuterium Lamp, 1050	79883-60002

Agilent 1100 DAD  
27-32-02845

## OPTI-MAX® CHECK VALVES

**100A, 110A/B, 112/112M, 114/114M,  
116, 118, 125, 126, 127, 128** 

		OEM #
<b>22-66-00516</b>	OPTI-MAX Inlet Housing & Cartridge	240720
<b>22-66-00520</b>	OPTI-MAX Outlet Housing & Cartridge	240721
<b>10-66-02005</b>	OPTI-MAX Replacement Cartridges, 3/16" Ball, 2/Pk	

OPTIONS: Stainless steel/ceramic OPTI-MAX Cartridges are listed above.  
For other options, please see page 50.



OPTI-MAX for Beckman/Altex

## BISCHOFF

OPTI-MAX  
For Bischoff

24-34-00559



24-36-00573



24-36-00574

## OPTI-MAX® CHECK VALVES

**Bischoff 2200, 2250, Anspec SM909, Alcott  
Micromeritics 760, 765 (Analytical Versions)**

		OEM #
<b>24-56-00576</b>	OPTI-MAX Inlet Housing & Cartridge	2200-0220, 760/25602/00
<b>24-56-00581</b>	OPTI-MAX Outlet Housing & Cartridge	2200-0230, 760/25604/00
<b>10-56-02004</b>	OPTI-MAX Replacement Cartridges, 1/8" Ball, 2/Pk	

**Bischoff 2200, Anspec SM909, Alcott  
Micromeritics 760 (Microbore Versions), 765**

		OEM #
<b>24-46-00585</b>	OPTI-MAX Inlet Housing & Cartridge	2200-0120, 760/25602/01
<b>24-46-00589</b>	OPTI-MAX Outlet Housing & Cartridge	2200-0130, 760/25604/01
<b>10-46-02004</b>	OPTI-MAX Replacement Cartridges, 1/16" Ball, 2/Pk	

OPTIONS: Stainless steel/ceramic OPTI-MAX Cartridges are listed above.  
For other options, please see page 50.

## SEALS &amp; PISTONS

**Bischoff 2200, Anspec SM909,  
Alcott Micromeritics 760, 765 (Analytical Versions)**

		OEM #
<b>24-34-00559</b>	Sapphire Piston	2200-0210, 760/25803/00

**Bischoff 2200, Anspec SM909,  
Alcott Micromeritics 760 (Microbore Versions), 765**

		OEM #
<b>24-36-00573</b>	ITB PTFE** Piston Seal	2200-0112, 760/25601/01
<b>24-36-00575</b>	ITB PTFE** Piston Seal, 10/Pk	
<b>24-36-00574</b>	Piston Seal Support Ring	2200-0111, 760/25603/01

\*\*ITB PTFE - Improved PTFE Blend

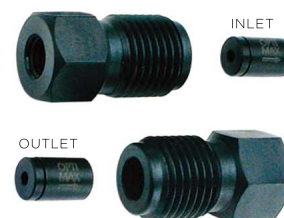
## OPTI-MAX® CHECK VALVES

**GP-40\*/IP-20\*, DQP, GPM-1, DRP, GPM-2, DXP, AGP (Analytical), 2000, 4000, GP-50/IP-25**

		OEM #
<b>25-58-00613</b>	OPTI-MAX Inlet Housing & Cartridge	047660, 38273
<b>25-58-00612</b>	OPTI-MAX Outlet Housing & Cartridge	047661, 42761
<b>10-58-02004</b>	OPTI-MAX Replacement Cartridges, 1/8" Ball, 2/Pk	

OPTIONS: PEEK/ceramic OPTI-MAX Cartridges are listed above. For other options, please see page 50.

\*The OPTI-MAX Check Valves above fit GP-40/IP-20 pumps. Users of microbore versions of these pumps should order OPTI-MAX microbore (1/16") cartridges. Please see page 50.



OPTI-MAX for Dionex

## PISTONS & SEALS

**GP-40/IP-20 (Analytical), DQP, GPM-1, DRP, GPM-2, DXP, AGP (Analytical), 2000, 4000**

		OEM #
<b>25-36-00597</b>	OPTI-SEAL UHMW-PE* Piston Seal (Hastelloy C® Spring)	40859
<b>25-36-00598</b>	OPTI-SEAL UHMW-PE* Piston Seal (Hastelloy C® Spring), 10/Pk	
<b>25-36-00599</b>	UHMW-PE* Piston Seal, (Elastomer O-Ring)	35686
<b>25-36-00600</b>	UHMW-PE* Piston Seal, (Elastomer O-Ring), 10/Pk	
<b>25-36-00601</b>	Back-Up Seal, for all models except GP40/IP20	36901
<b>25-36-00602</b>	Back-Up Seal, for all models except GP40/IP20, 10/Pk	

\*UHMW-PE - Ultra High Molecular Weight Polyethylene



25-36-00597



25-36-00599



25-36-00601

## LAMPS

**Dionex**

		OEM #
<b>25-32-02081</b>	Deuterium Lamp, Dionex VDM-1, DSA-1	
<b>25-32-02820</b>	Deuterium Lamp, Dionex CES 1, VDM-2	40651



Dionex  
25-32-02081

OPTI-MAX for  
L-7100

28-36-00690



28-36-00691

# HITACHI

## OPTI-MAX® CHECK VALVES

### L-7100 (LaChrom), L-2130

**28-46-02092** OPTI-MAX Inlet Housing & Cartridge

#### OEM #

ANO-0836, 810-1004,  
809-1408

**28-46-02094** OPTI-MAX Outlet Housing & Cartridge

ANO-0837, 810-1005,  
809-1409

**10-46-02004** OPTI-MAX Replacement Cartridges,  
1/16" Ball, 2/Pk

OPTIONS: Stainless steel/ceramic OPTI-MAX Cartridges are listed above.  
For other options, please see page 45.

### L-2100, Smash Pump, L-2130

**28-39-02092** OPTI-MAX Inlet Housing & Cartridge

**28-39-02094** OPTI-MAX Outlet Housing & Cartridge

**10-39-02004** OPTI-MAX Check Valve Cartridge Replacement,  
Microbore 1/32", 2/Pk

## SEALS

### 655, L-6000, L-6200/L-6200A, L-7100 (LaChrom), L-2100, Smash Pump

**28-36-00690** OPTI-SEAL UHMW-PE\* Piston Seal

#### OEM #

655-1080

**28-36-00692** OPTI-SEAL UHMW-PE\* Piston Seal, 10/Pk

**28-36-00691** OPTI-SEAL UHMW-PE\*  
Piston Seal (Hastelloy C® Spring)

**28-36-00693** OPTI-SEAL UHMW-PE\*  
Piston Seal (Hastelloy C® Spring), 10/Pk

\*UHMW-PE - Ultra High Molecular Weight Polyethylene

## OPTI-MAX® CHECK VALVES

### BIP 1

		OEM #
<b>42-56-01038</b>	OPTI-MAX Inlet Housing & Cartridge	6260-H101A
<b>42-56-01043</b>	OPTI-MAX Outlet Housing & Cartridge	6260-H102A
<b>10-56-02004</b>	OPTI-MAX Replacement Cartridges, 1/8" Ball, 2/Pk	

### 880/980 Series

		OEM #
<b>42-56-01544</b>	OPTI-MAX Inlet Housing & Cartridge	6560-H405A
<b>42-56-01546</b>	OPTI-MAX Outlet Housing & Cartridge	6560-H404A
<b>10-56-02004</b>	OPTI-MAX Replacement Cartridges, 1/8" Ball, 2/Pk	

OPTIONS: Stainless steel/ceramic OPTI-MAX Cartridges are listed above.  
For other options, please see page 50.



OPTI-MAX for BIP 1



OPTI-MAX  
for 880/980 Series

## SEALS & PISTONS

### BIP-1, PU-2080, 2085, 2089, 1580-C02, 980, 880, 1586, 2086, 986

		OEM #
<b>42-36-01357</b>	OPTI-SEAL UHMW-PE* Piston Seal	6560-H148, H149A
<b>42-36-01358</b>	OPTI-SEAL UHMW-PE* Piston Seal, 10/Pk	
<b>42-36-01355</b>	ITB PTFE** Piston Seal	6560-H148-PE, H149A
<b>42-36-01356</b>	ITB PTFE** Piston Seal, 10/Pk	
<b>42-34-01354</b>	Sapphire Piston	2305-0005A

\*UHMW-PE - Ultra High Molecular Weight Polyethylene

\*\*ITB PTFE - Improved PTFE Blend



42-36-01357



42-36-01355

## LAMPS

### Jasco

		OEM #
<b>42-32-02841</b>	DoubleLife Deuterium Lamp, 870, 875	5330-0097
<b>42-32-02842</b>	DoubleLife Deuterium Lamp, UV-1570, -1575, -2070, -2075, 975 B/C Series	5330-0091



42-34-01354



42-32-02842