

## SHIMADZU

## OPTI-MAX® CHECK VALVES

**LC-30**

		Shimadzu #
<b>34-76-05135</b>	OPTI-MAX Inlet Housing & Cartridge	228-52964-95
<b>10-76-02004</b>	OPTI-MAX Replacement Cartridges (for Inlet), 1/16" Ball, 2/Pk	
<b>34-86-05139</b>	OPTI-MAX Outlet Housing & Cartridge	228-53334-96
<b>10-86-02004</b>	OPTI-MAX Replacement Cartridges (for Outlet), 1/16" Double Ball, 2/Pk	

**LC-30ADSF, i-Series, LC-2040/C, LC-2030/C  
LC-20ABXR, ADXR**

		Shimadzu #
<b>34-86-02644</b>	OPTI-MAX Inlet Housing & Cartridge	228-48249-91 228-48249-96
<b>34-86-00893</b>	OPTI-MAX Outlet Housing & Cartridge	228-45705-91
<b>10-86-02004</b>	OPTI-MAX Replacement Cartridges 1/16" Ball, 2/Pk	



LC-10AT, LC-10ATVP

**LC-10AT, ATVP**

		Shimadzu #
<b>34-46-01983</b>	OPTI-MAX Inlet Housing & Cartridge	228-32166-91 228-39093-92
<b>34-46-00893</b>	OPTI-MAX Outlet Housing & Cartridge	228-32531-92 228-34976-91
<b>10-46-02004</b>	OPTI-MAX Replacement Cartridges, 1/16" Ball, 2/Pk	



LC-10ADVP

**LC-20AB, AD, ADsp, ADnano, AT, LC-10ADVP, 2010,  
GPC-20 & 50 (100µL Head), ESA 582 & 584**

		ESA#	Shimadzu #
<b>34-46-02644</b>	OPTI-MAX Inlet Housing & Cartridge	70-4056	228-39093-92 228-45704-91
<b>34-46-00893</b>	OPTI-MAX Outlet Housing & Cartridge	70-4057	228-34976-91 228-45705-91 228-37147-93
<b>10-46-02004</b>	OPTI-MAX Replacement Cartridges, 1/16" Ball, 2/Pk		



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

**LC-10AD, 9A, 600 (also ESA Model 580)**

		ESA#	Shimadzu #
<b>34-46-00885</b>	OPTI-MAX Inlet Housing & Cartridge	70-0734	228-18522-91 228-33492-91
<b>34-46-00893</b>	OPTI-MAX Outlet Housing & Cartridge	70-0735	228-18522-92 228-32531-92
<b>10-46-02004</b>	OPTI-MAX Replacement Cartridges, 1/16" Ball, 2/Pk		



LC-10AS, LC-6A

**LC-10AS, 6A**

		Shimadzu #
<b>34-56-00902</b>	OPTI-MAX Inlet Housing & Cartridge	228-12353-91
<b>34-56-00907</b>	OPTI-MAX Outlet Housing & Cartridge	228-09054-93
<b>10-56-02004</b>	OPTI-MAX Replacement Cartridges, 1/8" Ball, 2/Pk	



LC-8A

**LC-20AP, 8A**

		Shimadzu #
<b>34-66-02112</b>	OPTI-MAX Inlet Housing & Cartridge	228-20256-91
<b>10-66-02005</b>	OPTI-MAX Replacement Cartridges (for LC-8A Inlet), 3/16" Ball, 2/Pk	
<b>34-56-00907</b>	OPTI-MAX Outlet Housing & Cartridge	228-09054-93 228-50955-41
<b>10-56-02004</b>	OPTI-MAX Replacement Cartridges (for LC-8A Outlet), 1/8" Ball, 2/Pk	

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

## SEALS & PISTONS

### LC-20ABXR, ADXR, LC-20AB, AD, AT, LC-2010, LC-10ADVP, ESA 582 & 584

	ESA#	Shimadzu #
<b>34-36-00855</b> OPTI-SEAL UHMW-PE* Piston Seal		228-32628-00 228-18745-00 228-35146-00
<b>34-36-00856</b> OPTI-SEAL UHMW-PE* Piston Seal, 10/Pk		
<b>34-36-04711</b> ITB PTFE** Piston Seal		228-18745-00 228-35146-00
<b>34-36-04712</b> ITB PTFE** Piston Seal, 10/Pk		
<b>34-34-02645</b> Sapphire Piston for LC-10ADVP, 2010, 20AD (can be used for LC-10AT if user has Plunger Holder P/N 34-34-01991)	70-4052	228-35601-91 228-35601-92 228-35601-93



34-36-00855



34-34-02645



34-36-00865



34-36-00863

### LC-20AT, 10AT, 10ATVP, 10AS, 7A, 6A, SIL-10ADVP, GFP

	Shimadzu #
<b>34-36-00865</b> OPTI-SEAL UHMW-PE* Piston Seal	228-11999-00 228-21975-00 228-35145-00
<b>34-36-00866</b> OPTI-SEAL UHMW-PE* Piston Seal, 10/Pk	
<b>34-36-00863</b> ITB PTFE** Piston Seal	228-11999-00 228-21975-00 228-35145-00
<b>34-36-00864</b> ITB PTFE** Piston Seal, 10/Pk	
<b>34-34-01345</b> Sapphire Piston for LC-10AS	228-17019-93
<b>34-34-02650</b> Sapphire Piston for LC-10ATVP	228-35009-92



34-34-01345



34-34-02650

Piston Wash Users: The above seals can also be used as Back Seals (OEM# 228-28499-00)

### LC-10AD, 9A, 600, ESA 580

	Shimadzu #
<b>34-36-00855</b> OPTI-SEAL UHMW-PE* Piston Seal	228-18745-00 228-35146-00
<b>34-36-00856</b> OPTI-SEAL UHMW-PE* Piston Seal, 10/Pk	
<b>34-36-00857</b> UHMW-PE* Elastomer Energized Seal	228-18745-00 228-35146-00
<b>34-36-00858</b> UHMW-PE* Elastomer Energized Seal, 10/Pk	



34-36-00857



34-04-03881

\*UHMW-PE - Ultra High Molecular Weight Polyethylene

\*\*ITB PTFE - Improved PTFE Blend

## FILTRATION

### LC-10AD, 10AS, 10AT, 9A, 6A, 6AD, 6AEF, 610

	Shimadzu #
<b>34-04-03881</b> In-Line Filter Assembly	228-12642-93

## LAMPS

	Shimadzu #
<b>34-32-02837</b> DoubleLife Deuterium Lamp, SPD-10A, -10AV, -M10A, -10AS, -10AVP, -M10AVP, -20AV	228-34016-02
<b>34-32-03102</b> DoubleLife Deuterium Lamp, LC 2010, LC- 2010HT	228-37401-00



Shimadzu  
34-32-02837