



### Replacement Check Valves

**Self-priming** With the AS/ valve, priming is easy. Open the pump outlet and turn on the pump. Your pump will prime itself, even if the head and intake lines are completely dry. You won't need to use a syringe or draw-off valve to prime your pump.

**Rugged Construction** The valve will not crush, crack, or leak due to high pressure. We designed the AS/ cartridge so that loads are transmitted through the valve casing rather than the seat, as in conventional designs.

**Convenient and Economical Cartridge Design** When it's time for routine maintenance, you only need to replace the cartridge, not the entire assembly. The AS/ cartridge costs no more than most conventional valve rebuild kits, and you won't spend time chasing balls all over the lab bench.

**Pre-tested** Every AS/ valve is tested prior to shipping to ensure it passes a stringent set of performance specifications.

*Please ask for more information about AS/ check valves.*

### Replacement Piston Seals and Pistons

AS/ pump seals and pistons have been developed to reduce pump downtime. Our UHMW-PE piston seal material is compounded with other proprietary polymers to provide lower friction and better solvent resistance than pure UHMW-PE. It generally provides much longer service life than Teflon and generates less wear material, and we recommend it for most applications. Our Teflon piston seal has a proprietary additive to increase resistance to cold flow, and improve wear characteristics. Teflon is inert to any HPLC mobile phase.

**Please ask for a detailed guide to selecting the best material.**

## ASI Self-priming Check Valves

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

Description	OEM Part Number	ASI Part Number
Inlet Check valve (Cartridge and housing)	228-18522	250-1480*
Inlet cartridge		250-1460*
Inlet housing		250-1470
Outlet Check Valves (cartridge and housing)	228-18522-92	250-1485*
Outlet cartridges		250-1465*
Outlet housing		250-1475

### Shimadzu LC-6A, LC-10AS

Description	OEM Part Number	ASI Part Number
Inlet Check valve (Cartridge and housing)	228-12353-91	250-1482*
Inlet cartridge		250-1462*
Inlet housing		250-1472
Outlet check valve (cartridge & housing)	228-09054-93	250-1487*
Outlet cartridge		250-1467*
Outlet Housing		250-1477*

### Shimadzu LC-10ADvp, LC-20AD

Description	OEM Part Number	ASI Part Number
Inlet Check valve (Cartridge and housing)	228-39093-92	250-1481*
Inlet cartridge		250-1461*
Inlet housing		250-1471
Outlet check valve (cartridge & housing)	228-34976-91	250-1486*
Outlet cartridge		250-1466*
Outlet Housing		250-1476*

\* If you wish to specify ceramic ball & seat, add a "C" to end of part number.

## ASI Self-priming Check Valves

### Shimadzu LC-10AT

Description	OEM Part Number	ASI Part Number
Inlet Check valve (Cartridge and housing)	<b>228-32166-91</b>	<b>250-1484*</b>
Inlet cartridge		<b>250-1464*</b>
Inlet housing		<b>250-1474</b>
Outlet check valve (cartridge & housing)	<b>228-32531-92</b>	<b>250-1489*</b>
Outlet cartridge		<b>250-1469*</b>
Outlet Housing		<b>250-1479</b>

### Simadzu LC-10ATvp, LC-2010

Description	OEM Part Number	ASI Part Number
Inlet Check valve (Cartridge and housing)	<b>228-332166-91</b>	<b>250-1483*</b>
Inlet cartridge		<b>250-1463*</b>
Inlet housing		<b>250-1473</b>
Outlet check valve (cartridge & housing)	<b>228-34976-91</b>	<b>250-1488*</b>
Outlet cartridge		<b>250-1468*</b>
Outlet Housing		<b>250-1478</b>

## ASI Replacement Piston Seals

### Shimadzu LC-600, LC-9A, LC-10AD, LC-10ADvp, LC-20AD

Description	OEM Part Number	ASI Part Number	Material
Piston Seal	228-18745-00 & 228-35146-00	200-1420	Teflon
Piston Seal 10/Pack		200-1425	Teflon

### Shimadzu LC-6A

Description	OEM Part Number	ASI Part Number	Material
Piston seal	228-11999-00	200-1440	Teflon
Piston seal pack of 10		200-1445	Teflon
Piston Seal insertion tool		200-1441	

### Shimadzu LC-7A, LC-10AS, LC-10AT, LC-10ATvp, LC-2010

Description	OEM Part Number	ASI Part Number	Material
Piston seal	228-21975-91	200-1430	UHMW-PE
Piston seal pack of 10		200-1435	UHMW-PE
Piston Seal	228-35145-00	200-1432	Teflon
Piston seal pack of 10		200-1437	Teflon
Piston Wash Seal	228-28499-00	200-1431	UHMW
Piston seal pack of 10		200-1436	UHMW

## ASI Replacement Pistons

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

Description	OEM Part Number	ASI Part Number	Material
Piston	228-18523-91	260-1320	Sapphire Rod

### Shimadzu LC-6A

Description	OEM Part Number	ASI Part Number	Material
Piston	228-12904-93	260-1310	Sapphire Rod

### Shimadzu LC-7A, LC 10AS

Description	OEM Part Number	ASI Part Number	Material
Piston	228-17019-93	260-1305	Sapphire Rod

### Shimadzu LC-10ATvp, LC 2010

Description	OEM Part Number	ASI Part Number	Material
Piston	228-35009-92	260-1302	Sapphire Rod

### Shimadzu LC-10ADvp, LC-20AD

Description	OEM Part Number	ASI Part Number	Material
Piston	228-35601-91	260-1303	Sapphire Rod