

# EconolineLP<sup>®</sup> Columns

Low Pressure, Low Price



## HIGHLIGHTS:

- Biocompatible
- Universal Application
- Height Adjustment Plunger at One End
- Ease of Use
- Jacketed Version Available

# Advantages of EconolineLP<sup>®</sup> Columns

## 1 LINEAR MOTION OF PISTON

Due to true linear motion of piston there is no torsional load imposed on the packed bed assuring true linear compression.

## 2 TRUE FRITS

True frit without the use of sock design employed in less expensive columns assure even flow distribution across the bed.

## 3 ROBUST INLET AND OUTLET CONNECTIONS

Inlet and outlet connections are made at the exterior of the column, which provide a more reliable and visible connection.

## 4 FINE THREAD ADJUSTMENT

Columns are provided with fine thread adjustment of piston to allow for precise control of piston placement.

## 5 EASY OPEN ENDS

Design features our unique easily removable threaded end fittings making column disassembly effortless.

## 6 SEAL ADJUSTMENT

Easily adjustable O-ring seals.

## 7 PACKING ADAPTER

User-friendly packing adapters available.

**Pressure Limits:**  
10 - 30 Bars

**Connections:**  
ID 10mm - 25mm  
Two (2) 1/4"-28 fittings  
for 1/16" capillaries

ID 32mm - 50 mm  
Two (2) 1/4"-28 fittings  
for 1/8" capillaries

**Height Adjustment:**  
Multi-variable plunger  
at one end, 120 mm  
adjustment. Double  
piston configuration  
available upon request.

**Accessories:**  
User-friendly  
packing adapters

## EconolineLP<sup>®</sup> Columns

### MATERIALS OF CONSTRUCTION

- Tube: Borosilicate Glass
- Temperature Range: 4° - 40° C
- Plunger: POM (Delrin<sup>®</sup>)
- Seal: Viton O-ring
- Frit: Porous Glass

### INCLUDED SPARE PARTS

#### I.D. 10-25mm:

- 2 pcs. Nut 1/16"
- 2 pcs. Ferrule 1/16"
- 0.5mm FEP-Tubing I.D. 0.8mm, O.D. 1.6mm
- 1 pc. frit removal tool

#### I.D. 32-50mm:

- 2 pcs. Nut 1/8"
- 2 pcs. Ferrule 1/8"
- 0.5mm FEP-Tubing I.D. 1.6mm, O.D. 3.2 mm
- 1 pc. frit removal tool

# Econoline<sup>LP</sup>® Columns

Econoline<sup>LP</sup>® Column  
with piston removed.



ID (mm)	Bed Length min-max (mm)	Volume min-max (ml)	Pressure Limit (bar)	Frit Porosity (µm)	ELS Part No
10	0-120	0-9.42	30	16-40	ECO10/120V3V
10	80-200	6.28-15.71	30	16-40	ECO10/200V3V
10	330-450	25.92-35.34	30	16-40	ECO10/450V3V
10	630-750	49.48-58.90	30	16-40	ECO10/750V3V
10	880-1000	69.11-78.54	30	16-40	ECO10/999V3V
10	0-120	0-9.42	30	40-100	ECO10/120V4V
10	80-200	6.28-15.71	30	40-100	ECO10/200V4V
10	330-450	25.92-35.34	30	40-100	ECO10/450V4V
10	630-750	49.48-58.90	30	40-100	ECO10/750V4V
10	880-1000	69.11-78.54	30	40-100	ECO10/999V4V
15	0-120	0-21.21	25	16-40	ECO15/120V3V
15	80-200	14.14-35.34	25	16-40	ECO15/200V3V
15	330-450	58.32-79.52	25	16-40	ECO15/450V3V
15	630-750	111.33-132.54	25	16-40	ECO15/750V3V
15	880-1000	155.51-176.71	25	16-40	ECO15/999V3V
15	0-120	0-21.21	25	40-100	ECO15/120V4V
15	80-200	14.14-35.34	25	40-100	ECO15/200V4V
15	330-450	58.32-79.52	25	40-100	ECO15/450V4V
15	630-750	111.33-132.54	25	40-100	ECO15/750V4V
15	880-1000	155.51-176.71	25	40-100	ECO15/999V4V
20	0-120	0-37.70	20	16-40	ECO20/120V3V
20	80-200	25.13-62.83	20	16-40	ECO20/200V3V
20	330-450	103.67-141.37	20	16-40	ECO20/450V3V
20	630-750	197.92-235.62	20	16-40	ECO20/750V3V
20	880-1000	276.46-314.16	20	16-40	ECO20/999V3V
20	0-120	0-37.70	20	40-100	ECO20/120V4V
20	80-200	25.13-62.83	20	40-100	ECO20/200V4V
20	330-450	103.67-141.37	20	40-100	ECO20/450V4V
20	630-750	197.92-235.62	20	40-100	ECO20/750V4V
20	880-1000	276.46-314.16	20	40-100	ECO20/999V4V

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# Glass Tempering **Jacket** / Double **Piston** Configuration

User-friendly  
**PACKING  
 ADAPTER**  
 Available



ID (mm)	Bed Length min-max (mm)	Volume min-max (ml)	Pressure Limit (bar)	Frit Porosity ( $\mu$ m)	ELS Part No
25	0-120	0-58.90	15	16-40	ECO25/120M3V-K
25	0-200	0-98.17	15	16-40	ECO25/200M3V-K
25	210-450	103.08-220.89	15	16-40	ECO25/450M3V-K
25	510-750	250.35-368.16	15	16-40	ECO25/750M3V-K
25	760-1000	373.06-490.87	15	16-40	ECO25/999M3V-K
25	0-120	0-58.90	15	40-100	ECO25/120M4V-K
25	0-200	0-98.17	15	40-100	ECO25/200M4V-K
25	210-450	103.08-220.89	15	40-100	ECO25/450M4V-K
25	510-750	250.35-368.16	15	40-100	ECO25/750M4V-K
25	760-1000	373.06-490.87	15	40-100	ECO25/999M4V-K
32	0-120	0-96.51	10	16-40	ECO32/120M3V-K
32	0-200	0-160.85	10	16-40	ECO32/200M3V-K
32	210-450	168.89-361.91	10	16-40	ECO32/450M3V-K
32	510-750	410.17-603.19	10	16-40	ECO32/750M3V-K
32	760-1000	611.23-804.25	10	16-40	ECO32/999M3V-K
32	0-120	0-96.51	10	40-100	ECO32/120M4V-K
32	0-200	0-160.85	10	40-100	ECO32/200M4V-K
32	210-450	168.89-361.91	10	40-100	ECO32/450M4V-K
32	510-750	410.17-603.19	10	40-100	ECO32/750M4V-K
32	760-1000	611.23-804.25	10	40-100	ECO32/999M4V-K
50	0-120	0-235.62	10	16-40	ECO50/120M3V-K
50	0-200	0-392.70	10	16-40	ECO50/200M3V-K
50	210-450	412.33-883.57	10	16-40	ECO50/450M3V-K
50	510-750	1001.38-1472.62	10	16-40	ECO50/750M3V-K
50	760-1000	1492.26-1963.49	10	16-40	ECO50/999M3V-K
50	0-120	0-235.62	10	40-100	ECO50/120M4V-K
50	0-200	0-392.70	10	40-100	ECO50/200M4V-K
50	210-450	412.33-883.57	10	40-100	ECO50/450M4V-K
50	510-750	1001.38-1472.62	10	40-100	ECO50/750M4V-K
50	760-1000	1001.38-1472.62	10	40-100	ECO50/999M4V-K

# Glass Tempering **Jacket** / Double **Piston** Configuration

Double Piston  
Econoline<sup>LP</sup>® **Column** with  
Glass Tempering Jacket.



ID (mm)	Bed Length min-max (mm)	Volume min-max (ml)	Pressure Limit (bar)	Frit Porosity ( $\mu$ m)	ELS Part No
10	0-120	0-9.42	30	16-40	ECO10/120M3V-K
10	0-200	0-15.71	30	16-40	ECO10/200M3V-K
10	210-450	16.49-35.34	30	16-40	ECO10/450M3V-K
10	510-750	40.06-58.90	30	16-40	ECO10/750M3V-K
10	760-1000	59.69-78.54	30	16-40	ECO10/999M3V-K
10	0-120	0-9.42	30	40-100	ECO10/120M4V-K
10	0-200	0-15.71	30	40-100	ECO10/200M4V-K
10	210-450	16.49-35.34	30	40-100	ECO10/450M4V-K
10	510-750	40.06-58.90	30	40-100	ECO10/750M4V-K
10	760-1000	59.69-78.54	30	40-100	ECO10/999M4V-K
15	0-120	0-21.21	25	16-40	ECO15/120M3V-K
15	0-200	0-35.34	25	16-40	ECO15/200M3V-K
15	210-450	37.11-79.52	25	16-40	ECO15/450M3V-K
15	510-750	90.12-132.54	25	16-40	ECO15/750M3V-K
15	760-1000	144.30-176.71	25	16-40	ECO15/999M3V-K
15	0-120	0-21.21	25	40-100	ECO15/120M4V-K
15	0-200	0-35.34	25	40-100	ECO15/200M4V-K
15	210-450	37.11-79.52	25	40-100	ECO15/450M4V-K
15	510-750	90.12-132.54	25	40-100	ECO15/750M4V-K
15	760-1000	144.30-176.71	25	40-100	ECO15/999M4V-K
20	0-120	0-37.70	20	16-40	ECO20/120M3V-K
20	0-200	0-62.83	20	16-40	ECO20/200M3V-K
20	210-450	65.97-141.37	20	16-40	ECO20/450M3V-K
20	510-750	160.22-235.362	20	16-40	ECO20/750M3V-K
20	760-1000	238.76-314.16	20	16-40	ECO20/999M3V-K
20	0-120	0-37.70	20	40-100	ECO20/120M4V-K
20	0-200	0-62.83	20	40-100	ECO20/200M4V-K
20	210-450	65.97-141.37	20	40-100	ECO20/450M4V-K
20	510-750	160.22-235.362	20	40-100	ECO20/750M4V-K
20	760-1000	238.76-314.16	20	40-100	ECO20/999M4V-K



Econoline<sup>LP</sup>® Column  
with frit removal tool.

ID (mm)	Bed Length min-max (mm)	Volume min-max (ml)	Pressure Limit (bar)	Frit Porosity (µm)	ELS Part No
25	0-120	0.58.90	15	16-40	ECO25/120V3V
25	80-200	39.27-98.17	15	16-40	ECO25/200V3V
25	330-450	161.99-220.89	15	16-40	ECO25/450V3V
25	630-750	309.25-368.16	15	16-40	ECO25/750V3V
25	880-1000	431.97-490.87	15	16-40	ECO25/999V3V
25	0-120	0.58.90	15	40-100	ECO25/120V4V
25	80-200	39.27-98.17	15	40-100	ECO25/200V4V
25	330-450	161.99-220.89	15	40-100	ECO25/450V4V
25	630-750	309.25-368.16	15	40-100	ECO25/750V4V
25	880-1000	431.97-490.87	15	40-100	ECO25/999V4V
32	0-120	0.96.51	10	16-40	ECO32/120V3V
32	80-200	64.34-160.85	10	16-40	ECO32/200V3V
32	330-450	265.40-361.91	10	16-40	ECO32/450V3V
32	630-750	506.68-603.19	10	16-40	ECO32/750V3V
32	880-1000	707.74-804.25	10	16-40	ECO32/999V3V
32	0-120	0.96.51	10	40-100	ECO32/120V4V
32	80-200	64.34-160.85	10	40-100	ECO32/200V4V
32	330-450	265.40-361.91	10	40-100	ECO32/450V4V
32	630-750	506.68-603.19	10	40-100	ECO32/750V4V
32	880-1000	707.74-804.25	10	40-100	ECO32/999V4V
50	0-120	0.235.62	10	16-40	ECO50/120V3V
50	80-200	157.08-392.70	10	16-40	ECO50/200V3V
50	330-450	647.95-883.57	10	16-40	ECO50/450V3V
50	630-750	1237.00-1472.62	10	16-40	ECO50/750V3V
50	880-1000	1727.87-1963.49	10	16-40	ECO50/999V3V
50	0-120	0.235.62	10	40-100	ECO50/120V4V
50	80-200	157.08-392.70	10	40-100	ECO50/200V4V
50	330-450	647.95-883.57	10	40-100	ECO50/450V4V
50	630-750	1237.00-1472.62	10	40-100	ECO50/750V4V
50	880-1000	1727.87-1963.49	10	40-100	ECO50/999V4V