

540 HPLC Pumps

New

- **Advanced pump performance designed for the chromatographer**
- **Reliable low cost solution**
- **Isocratic, Gradient or Metering fluid flow applications**
- **Available with integral wash pump option**



ASI 540 Series HPLC Pump Features:

- ❖ **Intuitive Touchscreen display**
- ❖ **Available in Stainless Steel, Titanium and Biocompatible PEEK**
- ❖ **Micro, Analytical, UPLC, Semi-Prep, Prep and Flash Prep available**
- ❖ **Self-priming Pump Head**
Integral prime/purge for rapid solvent changes and self-priming
- ❖ **Patented Floating Pump Seal**
Seal floats in *alignment* relative to piston for longer seal life
- ❖ **Solvent Compressibility Compensation**
User can select from a library of 14 solvents
- ❖ **Same great performance as 520 series with 30% smaller footprint**
- ❖ **Easy Maintenance**
All user serviceable components are accessed via the front panel
Cartridge seal design makes seal replacement easy

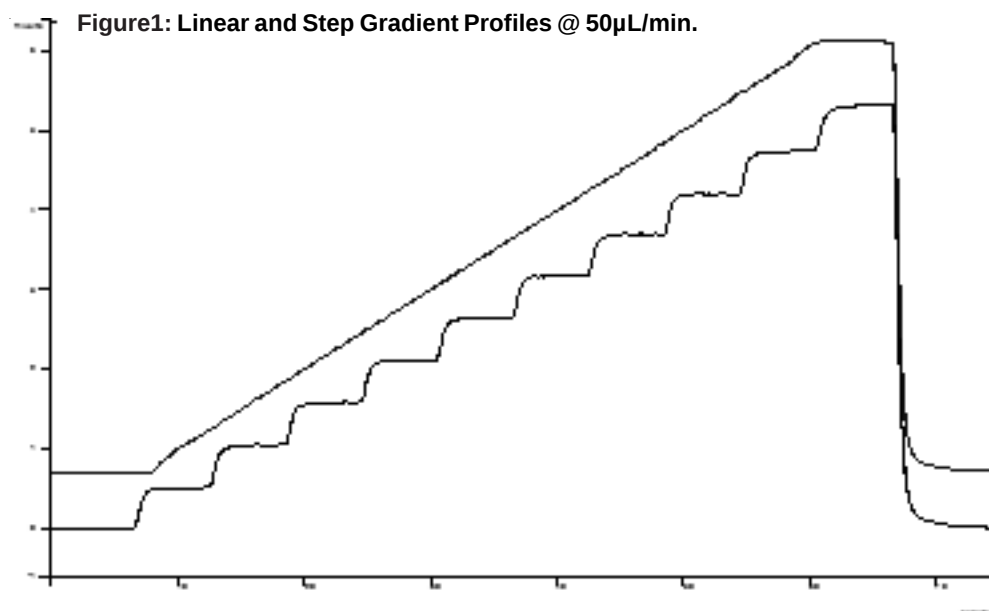
ASI

Model 541 Isocratic Solvent Delivery, Model 540G Gradient System

Part Numbers		Flow Range	Max Pressure
541-0004 & 540G-0004	Micro SST	0.5 µL/min. - 4 mL/min.	7,000 PSI Max
541-0004T & 540G-0004T	Micro Titanium		7,000 PSI Max
541-0004B & 540G-0004B	Micro Biocompatible PEEK		4,000 PSI Max
541-0004HP & 540G-0004HP	Micro SST UPLC	0.5 µL/min. - 250 µL/min. 0.5 µL/min. - 4 mL/min.	15,000 PSI Max 7,000 PSI Max
541-0010 & 540G-0010	Analytical SST	1 µL/min. - 10 mL/min.	7,000 PSI Max
541-0010T & 540G-0010T	Analytical Titanium		7,000 PSI Max
541-0010B & 540G-0010B	Analytical Biocompatible PEEK		4,000 PSI Max
541-0010HP & 540G-0010HP	Analytical SST UPLC	1 µL/min. - 1 mL/min. 1 µL/min. - 10 mL/min.	15,000 PSI Max 7,000 PSI Max
541-0040 & 540G-0040	Semi-Prep SST	10 µL/min. - 40 mL/min.	3,500 PSI Max
541-0040T & 540G-0040T	Semi-Prep Titanium		
541-0040B & 540G-0040B	Semi-Prep Biocompatible PEEK		
541-0125 & 540G-0125	Prep SST	10 µL/min. - 125 mL/min. 50 µL/min. - 230 mL/min.	1,500 PSI Max
541-0125T & 540G-0125T	Prep Titanium		500 PSI Max
541-0125B & 540G-0125B	Prep Biocompatible PEEK		
Accuracy		Micro: ±1% or 1 µL/min. (whichever greater) Others: ±1% or 2 µL/min. (whichever greater)	
Precision		Micro: 0.25%, 0.10 mL/min. - 4 mL/min. @ 20°C Others: 0.25%, 0.10 mL/min. - 10 mL/min. @ 20°C	
Pulsation		1% Δ P/P @ 1,500 PSI pressure	
Dimension Weight		6.75" W x 15.6" D x 6.75" H (Isocratic) 16 lbs. (Isocratic)	
Power		AC 100 – 240 V 50/60 Hz	

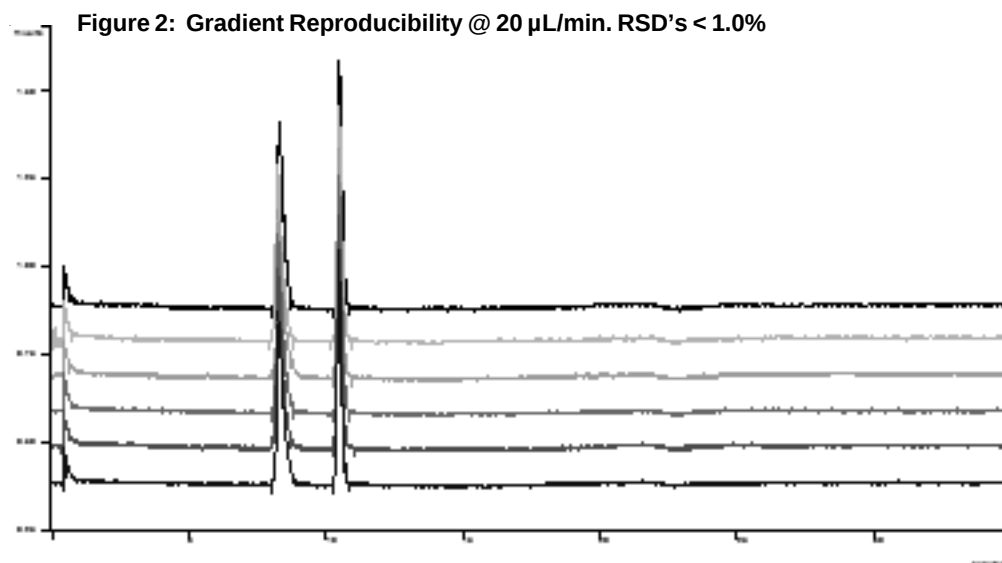
OEM inquiries welcome

ASI Performance Data



HPLC System:
ASI Micro Head
Detection: UV214
Mixer: ASI HyperShear In-Line 25 μ L

HPLC Conditions:
MP: A = H₂O, B = H₂O doped with 0.05% red dye
Flow Rate: 50 μ L/min
Step Gradient: 0 to 100% B in 60 min., 10% steps
Linear Gradient: Same, 4 min. T0 hold



HPLC System:
ASI Micro Head
Detection: UV214
Mixer: ASI HyperShear In-Line 25 μ L

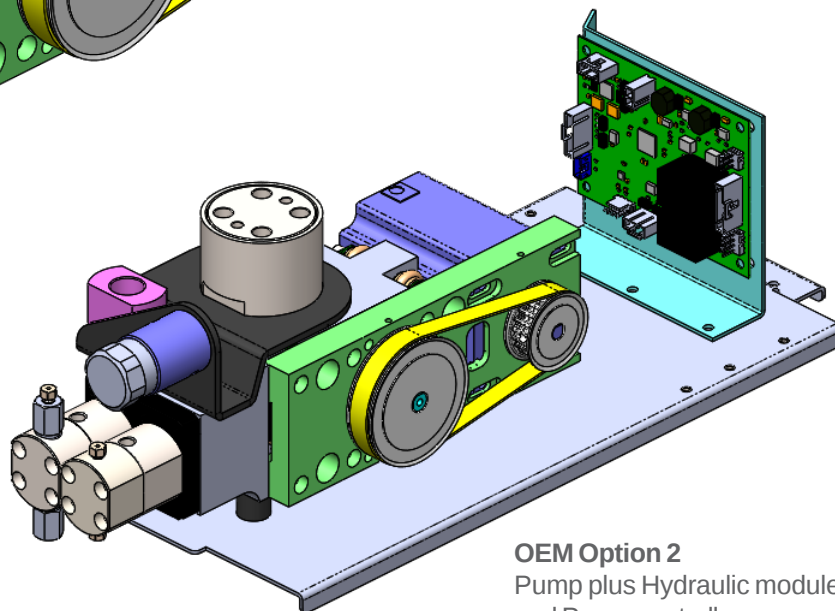
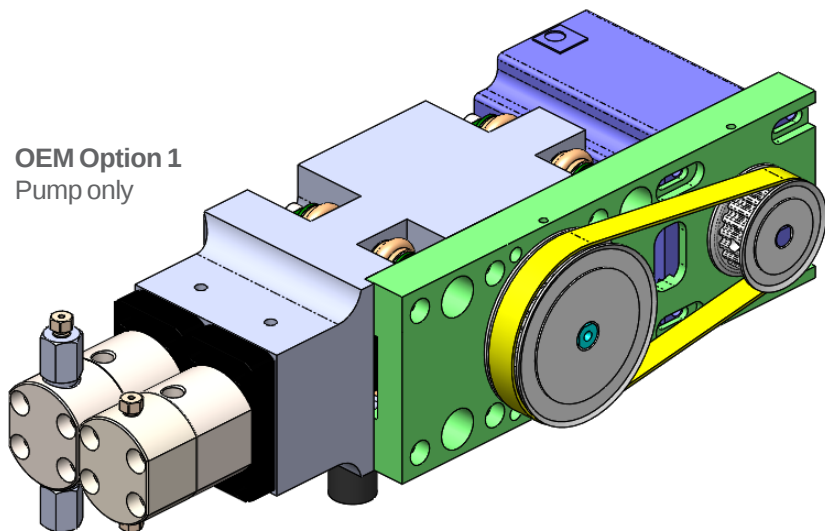
HPLC Conditions:
MP: A = H₂O, B = H₂O doped with 0.05% red dye
Flow Rate: 20 μ L/min Gradient: 5 to 95% B in 20 min
Sample: Methyl and Ethyl Parabens

What can we engineer for YOU?

ASI has supplied custom OEM pump assembly solutions for
Proteomics-LCMS, Process Instrumentation, Pharmaceutical Manufacturing,
Supercritical Fluid Chromatography, Preparative Chromatography,
Biotech and SEC/GPC Systems.

Option 1 and Option 2 below are typical OEM configurations.
We will make a custom configuration per your specification.

OEM Option 1
Pump only



OEM Option 2
Pump plus Hydraulic module
and Pump-controller

Analytical Scientific Instruments US, Inc.
3023 Research Drive Richmond CA 94806 USA
www.hplc-asi.com Phone: 510-669-2250 info@hplc-asi.com

