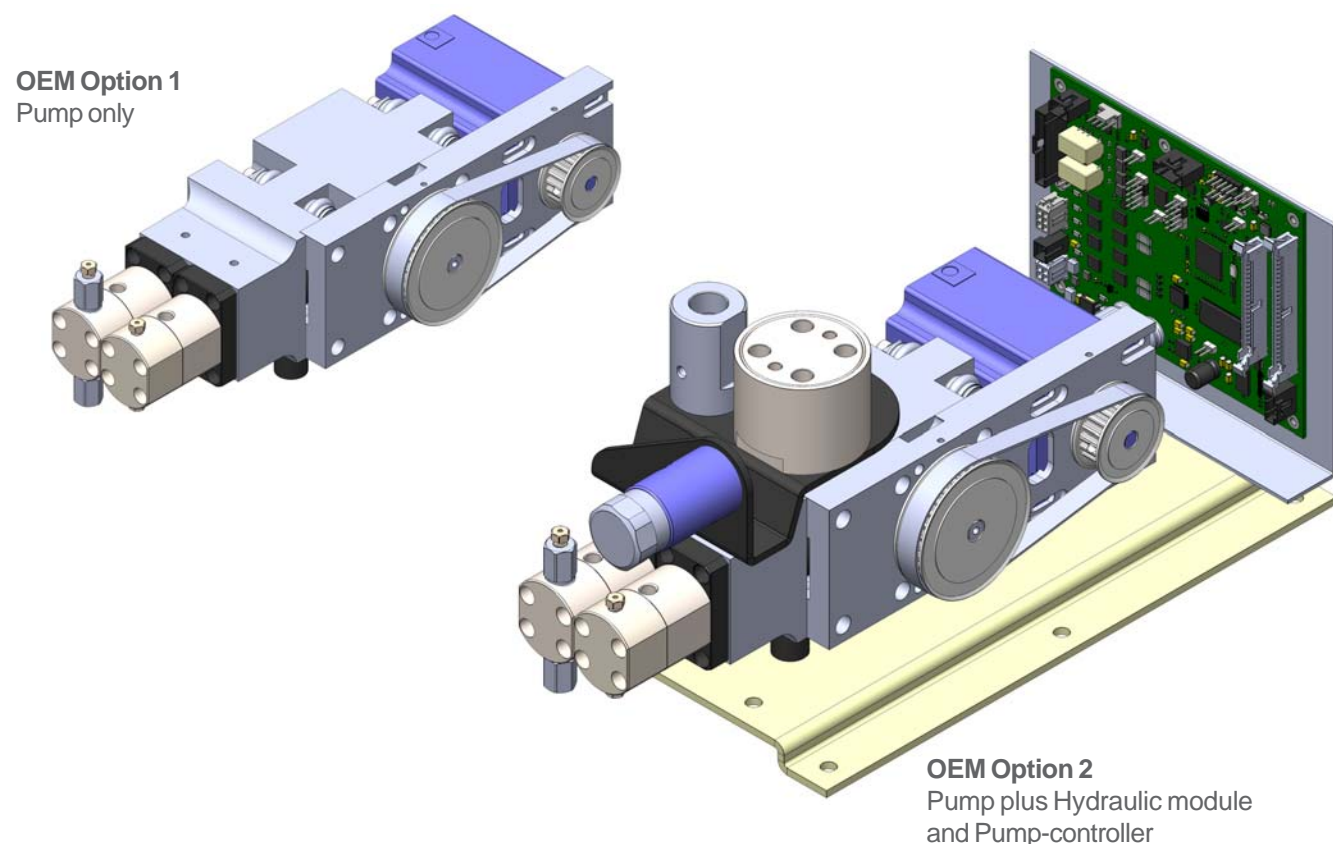


What can we engineer for YOU?

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.



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

ASI Analytical Scientific Instruments US

Copyright © 2014 ASI - Analytical Scientific Instruments US, Inc.
Rev. 2_17_2025

540 HPLC Pumps

New

- Private label for OEMs, Small or Big
- Advanced pump performance designed for the chromatographer
- Reliable low cost solution
- Isocratic, Gradient or Metering fluid flow applications
- Available with integral wash pump option
- Modus RTU control over RS485 serial or USB



ASI 540 Series HPLC Pump Features:

- ❖ Intuitive Touchscreen display
- ❖ Available in Stainless Steel 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
- ❖ Easy Maintenance
All user serviceable components are accessed via the front panel
Cartridge seal design makes seal replacement easy

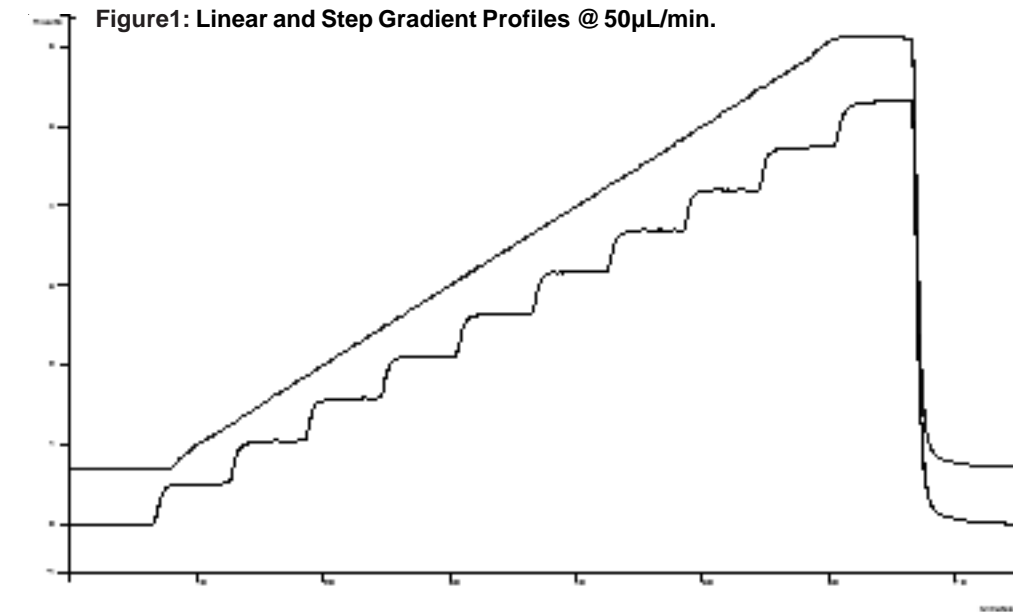
ASI

Model 541 Isocratic Solvent Delivery, Model 540G Gradient System

Part Numbers		Flow Range	Max Pressure
541-0004 & 540G-0004 541-0004B & 540G-0004B	Micro SST Micro Biocompatible PEEK	0.5 µL/min. - 4 mL/min.	7,000 PSI Max 4,000 PSI Max
541-004HP & 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 541-0010B & 540G-0010B	Analytical SST Analytical Biocompatible PEEK	1 µL/min. - 10 mL/min.	7,000 PSI Max 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 541-0040B & 540G-0040B	Semi-Prep SST Semi-Prep Biocompatible PEEK	10 µL/min. - 40 mL/min.	3,500 PSI Max
541-0125 & 540G-0125 541-0125B & 540G-0125B	Prep SST Prep Biocompatible PEEK	10 µL/min. - 125 mL/min.	1,500 PSI Max
541-0300 541-0300B	Flash Chrome SST Flash Chrome Biocompatible PEEK	50 µL/min. - 300 mL/min.	500 PSI Max
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, Fuse: 4A, 250 V		

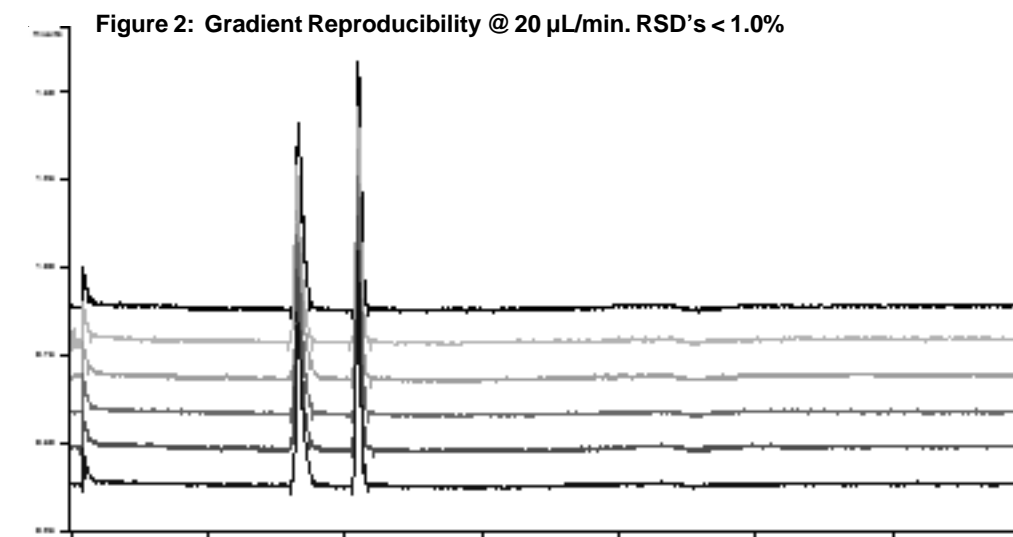
OEM inquiries welcome

AS/Performance Data



HPLC System:
AS/Micro Head
Detection: UV214
Mixer: ASI HyperShear In-Line 25 µL

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



HPLC System:
AS/Micro Head
Detection: UV214
Mixer: ASI HyperShear In-Line 25 µL

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