



HPD™

High Pressure Dispenser



> sparkholland.com

Better Sample Care.



HPD™

High Pressure Dispenser

Accurate flow at high pressure

Traditional volumetric dispensers are designed for pipetting reagents or samples into vials or wells at ambient pressure or a few bar at most. On-line volumetric reagent delivery however, may require the ability to introduce reagents into a system with a high working pressure. The HPD™ was originally designed for SPE solvent delivery in on-line SPE-LC systems, but other applications are easy to imagine. Think for example of pre-column reagent addition for on-line derivatization in HPLC and post-column reagent addition for detection enhancement.



Accurate volume
delivery



Backpressure
up to 300 bar



Solvent
pre-mixing



Specifications

Syringe volume	2 mL
Volume accuracy	± 1.0% (for volumes > 0.3 mL) ± 2.0% (for volumes < 0.3 mL)
Volume precision	< 1.0% RSD (volumes > 0.1 mL)
Flowrate	0.1 - 10 mL/min (aspirate and dispense)
Flow accuracy	+/- 1.0%
Flow precision	< 1.0% RSD
Flow ripple	< 2.0%
Back pressure	max. 300 bar
Default syringe valve	6 port (In, Out and 4 solvents)
Solvent selection manifold (SSM)	Optional, max. 2 additional valves (2 x 6 solvents)
Solvent mixing	Capable of automatic pre-mixing of 2 solvents
Pressure read-out	Selectable: bar - psi - Mpa
Wetted materials	SS316, Teflon, Tefzel, Kalrez, PE, PEEK

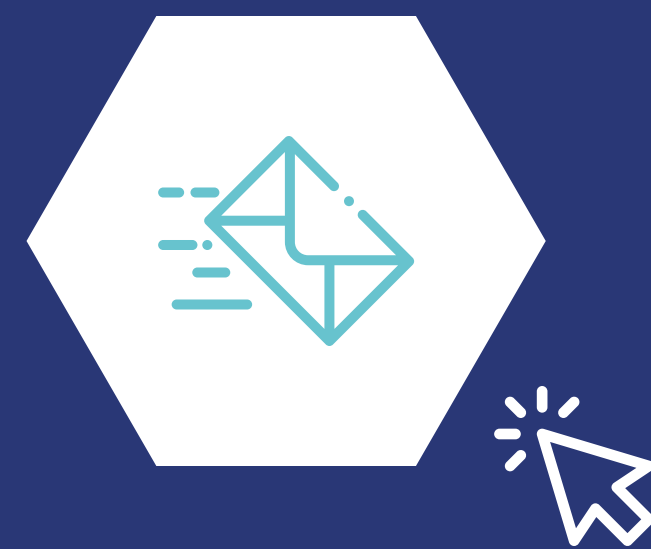
Accurate flow at high pressure

Accurately dispense any volume at your desired flowrate without backpressure dependency up to 300 bar. Whether you require small or large volumes, solvents will be delivered in a very accurate and precise manner. This makes the HPD™ very suitable for online addition of reagent or pumping large sample volumes.

Solvent pre-mixing

The HPD™ is capable of automatic pre-mixing any solvent composition you would like to apply. This makes the instrument a very helpful tool in finding the sweet spot of your application. Just select the solvent composition you want to test and the experiment begins without any laborious manual steps!

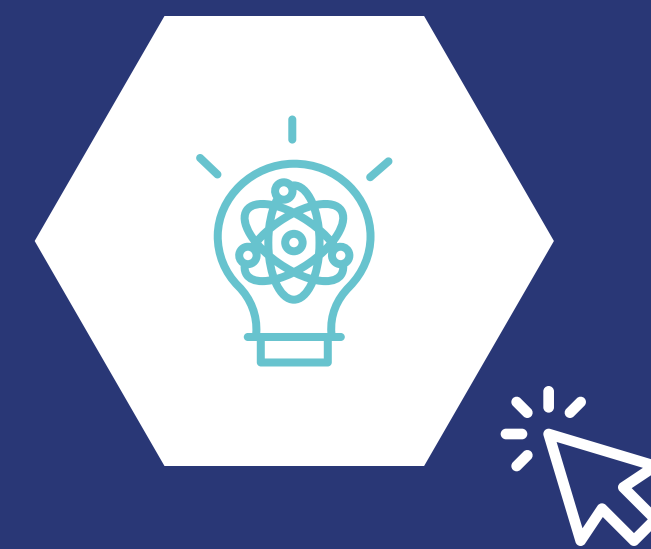




Get in touch



Visit our website



Our technologies

Spark
H O L L A N D

Waanderweg 40 | 7812 HZ EMMEN | The Netherlands

Phone: +31 591 631700 | Fax: +31 591 630035 | E-mail: sales@sparkholland.com