

Press release – Analytica 2010

title **Functional modules of HNP Mikrosysteme GmbH
for micro-dosing in analytic instrumentation
and biotechnology**

text Diverse fields of application as Lab-on-a-Chip or
laboratory automation do have high demands on accuracy
and functional reliability of components used for micro-
dosing. At the Analytica 2010, HNP Mikrosysteme GmbH
presents different functional modules which combine some
of the most important components of the microfluidic
installation. These functional modules consist of
manifold and filter (functional module F-P) or
alternatively of manifold, filter and valve (functional
module F-P-V) and will be combined with micro annular
gear pumps.

Both functional modules are characterized by a low void
volume due to short direct connections. Expenses of
connecting elements are marginal. The integrated wire
mesh filter with a mesh size of 10 µm preventatively
protects the pump as well as the downstream fluidic
micro structure from contamination. Replacement of the
easy accesible filter is uncomplicated.

The functional modules can be used flexibly for several
sizes of pumps of the low pressure and modular pump
series. Thereby, they are qualified for discrete and
continuous dosing of volume flows in the range of
0.15 to 18 ml/min and are convenient for analytical
instrumentation, laboratory automation, micro reaction
technology and further applications.

The functional module F-P-V features a small chemically
resistant 2/2-way shift valve, used for almost
backstroke free blockage of the fluid line to prevent
the backflow of fluid through the pump. Therefore, this
functional module is especially well-suited for highly
precise discrete dosing in aspirate and dispense mode.

photo



(F-P-V_und_F-P.jpg) (1328 kB)

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Functional module filter-pump (F-P) and filter-pump-valve (F-P-V)

We kindly invite you to visit us on **booth 510 in hall A3**.

Print free of charge.

Please send reprint to following address:

HNP Mikrosysteme GmbH

Dörte Hoffmann

Juri-Gagarin-Ring 4

D-19370 Parchim

phone +49 3871/451-352

fax +49 3871/451-333

email info@hnp-mikrosysteme.de

internet <http://www.hnp-mikrosysteme.de>