

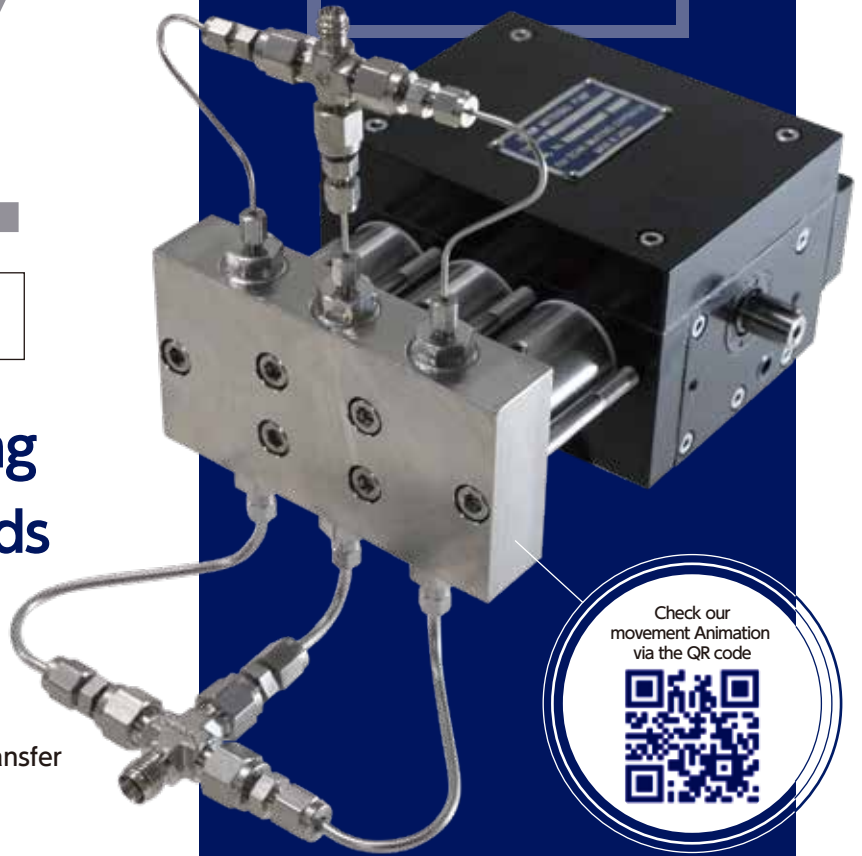
SUPER METERING PUMP

NS2

Expanded application range

Pulse-free • Metering handling slurry liquids

The world's only pulse-free and accurate metering performance
By optimizing the pump head, it is now capable of handling difficult-to-transfer liquids such as slurry.



NEW
PRODUCTS

Check our
movement Animation
via the QR code



Key effects of the newly designed pump head:

Reduced residual substances
during cleaning processes (CIP/SIP)

Compatible with a wide variety
of liquids including slurries

Minimal dead space and reduced
bubble removal time

Increased volumetric efficiency
and reduced pulsation

MICRO
PROCESS

PHARMACEUTICAL
MANUFACTURING

DISPLAY
MANUFACTURING

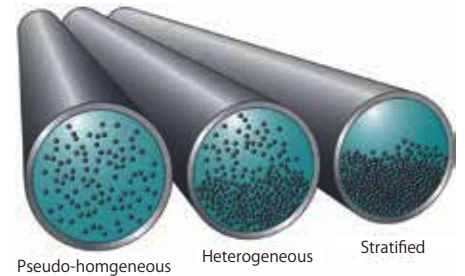
The volume of the internal flow path volume in the head has been reduced to approximately half.
By reducing flow resistance, liquids can flow more smoothly, making it less likely for mixtures to settle.

Improved volumetric efficiency

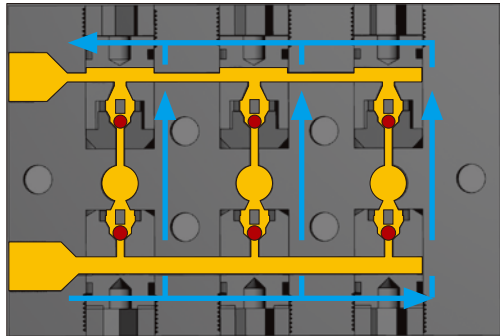
Compatible with slurry

Better maintainability

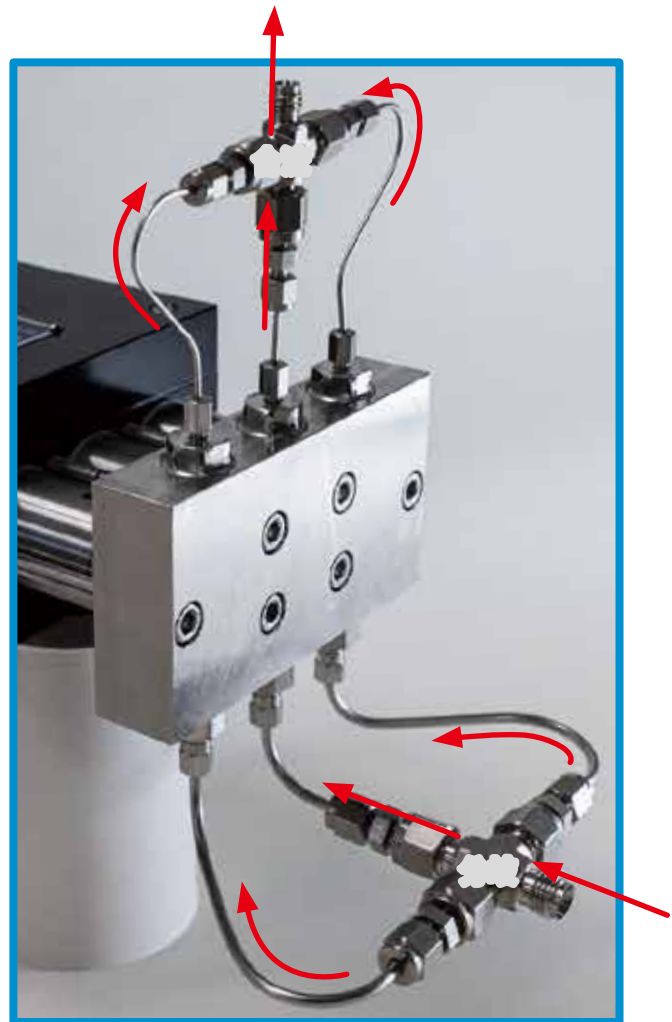
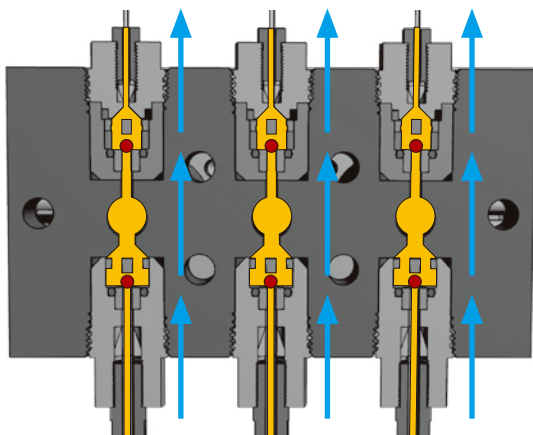
Slurry (solid particles mixed in solvent) has a density several times higher than ordinary liquids. Therefore, stagnation areas in piping, tank bottoms, liquid ends, and piping sections can cause very rapid sedimentation. As shown in the figure, the mixture quickly forms layered sediment, leading to flow rate fluctuations caused by pipe clogging. For this reason, it is important to draw and discharge fluid as smoothly as possible with the minimum internal volume. Previous pulse-free metering pumps had challenges in this regard.



■ Conventional pump head
Former complex route



■ Newly developed pump head
Volumetric efficiency be improved 50%



■ Branching and merging for each plunger are now achieved by external piping outside the pump