

# Multi-Inlet Extension

P114-0019

## Upgrade for Differential Scale Loop

**The Multi-Inlet Extension is designed for more flexibility in automatic test runs.**

With a standard Differential Scale Loop (DSL) five fluids can automatically be used for one test run:

2 sample fluids, 1 inhibited sample and 2 cleaning fluids. If alternative or more fluids should be used, they have to be changed manually while pausing a test run.

Now with the Multi-Inlet Extension the changing of up to seven fluids can be integrated in the test schedule and thus executed automatically without pausing the test run.

The following options are provided for an experiment:

**Scale-on-scale testing:**  
two different cationic and anionic samples each, instead of one each

**Inhibitor testing:**  
with max. 3 different inhibitor solutions for one cationic and anionic sample instead of one inhibitor only

**Scale dissolver testing:**  
max. 3 different dissolvers instead of one

Also a combination of these suggested fluid mixes are possible.



Mounted Multi-Inlet Extension on Differential Scale Loop DSL

### How does it work?

The extension unit has different inlets. A schematic plan provides an overview for quick changing of the tubes. Depending on the application the tubes have to be connected to these inlets.

### Overview of typical automatic test runs with and without Multi-Inlet Extension:

Differential Scale Loop	Standard	Multi-Inlet Extension		
Quantity of fluids for automatic test run	5	7		
Application	Scale testing	Scale-on-scale testing	Inhibitor testing	Scale dissolver testing
Sample: Cationic	1	2	1	1
Sample: Anionic	1	2	1	1
Inhibited solution	1	1	3	1
Cleaning solution 1	1	1	1	1
Cleaning solution 2	1	1	1	3

Each Differential Scale Loop is upgradable with the multi-inlet extension! Just mount the small unit with provided screws at the frame of the Differential Scale Loop, connect

some cables and tubes and the installation is done. If you have further questions, please contact PSL.