



ASM Sand Injection Calibration



SMS provides Acoustic Sand Monitoring (ASM) Sand Injection Calibration solution that allows the end user to optimise their existing ASM effectiveness to quantify solids.

System Overview

SMS Sand Injection System allows for the safe displacement of a known volume of gel containing a set concentration of sand suspended within. A pump system set at a specific displacement rate applies a known volume of liquid, at pressure, to the backside of piston displacement cylinder. On the front side of the piston displacement cylinder is the sand injection gel which is then displaced into the process system. This set-up is used to support the calibration and validation of Acoustic Sand Detectors.

Features & Benefits

- Quick and easy fill/refill system
- Portable, simple, effective design
- Constant sand concentration injected over set time

Description & Documentation

| | |
|-------------------------------|--|
| Net Volume | 4000cc |
| Design Temperature | 0°C to 50°C – Ambient |
| Design Pressure | System (excluding pumps): 400 Bar High Flow Pump: 336 LPH @ 62 Bar Low Flow Pump: 86 LPH @ 134 Bar |
| Material | Stainless 316L |
| Injection Rate | Up to 336 Litres per hour (Back Pressure Dependant) |
| Net Weight | Up to 120kg |
| Dimensions | 650mm x 1385mm x 530mm W x H X D |
| Standard Documentation | <ul style="list-style-type: none"> • Certificate of conformity • Hydrostatic test certificate • User instructions • User spare parts list |
| Optional Documentation | <ul style="list-style-type: none"> • Hydrostatic test certificate, with 3rd party endorsement, complete with 3rd party inspection release note • Copy of PED 2014/68/EU Declaration of Conformity • Material Certification to EN 10204: 3.1 for pressure retaining components |



Design

Complies with:

Approved for use within the European union under the following Directive:

- 2014/68/EU (PED)

Design codes:

Generally, in accordance with PD 5500

Service:

- UN 1954 Compressed gas, flammable, n.o.s
- UN 1066 Nitrogen, compressed
- UN 1006 Argon compressed

Options:

Multiple Injection rates available



Sense



Understand



Perform