

Inline Flowmeter

Application

The inline flowmeter contains an electrical through-connection allowing it to be run anywhere in a tool string. When operated in combination with a fullbore flowmeter, the inline flowmeter allows for production profiling in tubing and casing on a single logging run. It may also be used as a backup flowmeter for horizontal well logging where the fullbore spinner may be damaged by debris in the well. This flowmeter performs in all well orientations from vertical to horizontal.

The spinner is mounted by precision roller bearings and rotation detection is through zero drag hall effect devices, giving very low threshold and optimizing low flow measurement. At high flow rates the flowmeter is similarly reliable due to the precision bearings employed in the assembly.

Features

- Precision roller bearings
- Zero drag sensor provides low threshold and optimizes low-flow measurement
- Run at any point in a tool string
- Run in combination with a fullbore or continuous spinner to obtain production profiling in a single logging run
- Operates in all deviated and horizontal wells

Benefits

Due to its small outer diameter, the Inline Flowmeter is capable of measuring flow in small diameter casing and tubing. The lightweight impeller is highly sensitivity which allows for accurate flow readings in any flow rate applications, and is especially useful in very low flow rate applications. The impeller unit is self-contained making it easily serviceable.

| Inline Flowmeter | | |
|------------------|----------|-------------|
| Type | Size | Part No. |
| Standard Service | 1.688 in | AM005WA0013 |
| | 2.125 in | AM005WA0016 |
| H2S Service | 1.688 in | AM005WB0013 |
| | 2.125 in | AM005WB0016 |



Inline Flowmeter

| Spare Parts | | | |
|------------------------------------|-----------------|----------|---------------|
| Type | Number of Parts | | Part No. |
| | 1.688 in | 2.125 in | |
| Seal Kit | 1 | - | AM005RK0013 |
| Seal Kit | - | 1 | AM005RK0016 |
| Pan Head Phillips Screw #4-40x.25L | 8 | 8 | 101458 |
| Flow Meter Bearing | 2 | 2 | PM005UU0029 |
| Set Screw 10-32x0.19" | 1 | 1 | SSC10-32SB019 |
| Set Screw #10-32x0.125L | 2 | 2 | 102737 |

| Specifications | | |
|--------------------|-----------------------------------|-------------------|
| | Details | |
| | 1.688" Model | 2.125" Model |
| OD | 1.688 in (4.3 cm) | 2.125 in (5.4 cm) |
| Length | 31.1 in (79 cm) | 32.3 in (82 cm) |
| Weight | 11 lbs (5 kg) | 14 lbs (6.4 kg) |
| Temperature Rating | 350°F (177°C) | |
| Pressure Rating | 15,000 psi (103.5 MPa) | |
| Threshold Velocity | 26.25 ft/min (8 m/min) | |
| Spinner Response | 0.037 rps/ft/min (0.12 rps/m/min) | |