

## PRODUCT INFORMATION:



### DESCRIPTION

Owen Instrumentations range of fixed cage flowmeters are for use in small diameters, or very high flowrate wells when a fullbore flowmeter (CFE, BFF, FBC, FBF or FFM) is not appropriate. These tools are fitted with precision bearings to ensure both an industry leading threshold in low flowrate wells as well as impeller stability at high flowrates. These impellers are manufactured from ultra-light but tough corrosion and erosion resistant material to NACE specifications. Unshielded and shielded cages (illustrated) are available in 1 11/16", 2 1/8" and 3 1/8" diameters.

### PRODUCT FEATURES:

- > Precision bearings for industry leading threshold in low flow rates.
- > Interchangeable cage sizes available for differing size wellbores.
- > A single electronics module can be used with different cage sizes.

### PRODUCT APPLICATIONS:

- > Measurement of flow in high flowrate wells.
- > In wells where there is a risk of debris and damage to fullbore flowmeters.
- > In applications where keeping the toolstring length to a minimum is a consideration.

### SPECIFICATIONS:

|                         | FCF-E                          | FCF-G                          | FCF-R                          |
|-------------------------|--------------------------------|--------------------------------|--------------------------------|
| <b>PART NUMBER</b>      | 132-99005                      | 132-99007                      | 132-99017                      |
| <b>LENGTH</b>           | 12.0" / 300 mm                 | 12.0" / 300 mm                 | 12.0" / 300 mm                 |
| <b>DIAMETER BODY</b>    | 1 11/16" 43 mm                 | 1 11/16" 43 mm                 | 1 11/16" 43 mm                 |
| <b>DIAMETER CAGE</b>    | 2 1/8" / 54 mm                 | 1 11/16" 43 mm                 | 3 1/8" / 79 mm                 |
| <b>PRESSURE</b>         | 20,000psi                      | 20,000psi                      | 20,000psi                      |
| <b>TEMPERATURE</b>      | 177C / 350F                    | 177C / 350F                    | 177C / 350F                    |
| <b>WEIGHT IN AIR</b>    | 3.1 lbs / 1.4 Kg               | 3.3 lbs / 1.5 Kg               | 3.3 lbs / 1.5 Kg               |
| <b>FISHING STRENGTH</b> | 29,000 lbs / 13,154 Kgs        | 29,000 lbs / 13,154 Kgs        | 29,000 lbs / 13,154 Kgs        |
| <b>CONNECTIONS</b>      | GO-A                           | GO-A                           | GO-A                           |
| <b>RANGE</b>            | 2 - 200 m/min (400 m/min peak) | 2 - 200 m/min (400 m/min peak) | 2 - 200 m/min (400 m/min peak) |
| <b>ACCURACY</b>         | <5% error                      | <5% error                      | <5% error                      |
| <b>RESOLUTION</b>       | 10 Pulses / Rev (Directional)  | 10 Pulses / Rev (Directional)  | 10 Pulses / Rev (Directional)  |
| <b>BUS INTERFACE</b>    | Owen Instrumentation MPB       | Owen Instrumentation MPB       | Owen Instrumentation MPB       |
| <b>VOLTAGE</b>          | 12.0 v                         | 12.0 v                         | 12.0 v                         |
| <b>CURRENT</b>          | 8 mA                           | 8 mA                           | 8 mA                           |