

# SOLID RINGS



## TECHNICAL SPECIFICATIONS

GUL manufactures a range of solid transduction rings for screening small-diameter pipeline, typically between 2" and 8". While each ring type can be used in various applications, some are better suited than others. The comparison table provides guidance on ring selection; contact GUL for further advice if needed.

| RING TYPE                                                          |  |  |  |  |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                    | EFC-Lite                                                                          | EFC-HT                                                                              | HD                                                                                  | Low Profile (Slinky)                                                                |
| <b>Application Areas</b>                                           |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Generic Pipe                                                       | RECOMMENDED                                                                       | RECOMMENDED                                                                         | SUITABLE                                                                            | SUITABLE                                                                            |
| Typical Pipe Rack                                                  | RECOMMENDED                                                                       | RECOMMENDED                                                                         | SUITABLE                                                                            | SUITABLE                                                                            |
| CUI                                                                | RECOMMENDED                                                                       | RECOMMENDED                                                                         | SUITABLE                                                                            | SUITABLE                                                                            |
| High Temperature Pipe<br>(100°C to 150°C) [212°F to 302°F]         | SUITABLE                                                                          | RECOMMENDED                                                                         | SUITABLE                                                                            | NOT SUITABLE                                                                        |
| Extreme High Temperature Pipe<br>(150°C to 350°C) [302°F to 662°F] | NOT SUITABLE                                                                      | RECOMMENDED                                                                         | NOT SUITABLE                                                                        | NOT SUITABLE                                                                        |
| Tight Access                                                       | NOT SUITABLE                                                                      | NOT SUITABLE                                                                        | SUITABLE                                                                            | RECOMMENDED                                                                         |
| Generally Corroded Pipe                                            | RECOMMENDED                                                                       | RECOMMENDED                                                                         | SUITABLE                                                                            | SUITABLE                                                                            |
| Test under Supports on Clean Pipe                                  | SUITABLE                                                                          | SUITABLE                                                                            | RECOMMENDED                                                                         | SUITABLE                                                                            |
| Welded Supports                                                    | SUITABLE                                                                          | SUITABLE                                                                            | RECOMMENDED                                                                         | NOT SUITABLE                                                                        |
| Minimize Dead Zone                                                 | SUITABLE                                                                          | SUITABLE                                                                            | RECOMMENDED                                                                         | SUITABLE                                                                            |
| Pipe with Bitumen Coating                                          | SUITABLE                                                                          | SUITABLE                                                                            | NOT SUITABLE                                                                        | SUITABLE                                                                            |
| Concrete Lined Pipe                                                | RECOMMENDED                                                                       | RECOMMENDED                                                                         | NOT SUITABLE                                                                        | SUITABLE                                                                            |
| Soil Interface                                                     | SUITABLE                                                                          | SUITABLE                                                                            | RECOMMENDED                                                                         | SUITABLE                                                                            |
| Concrete Interface                                                 | NOT SUITABLE                                                                      | NOT SUITABLE                                                                        | RECOMMENDED                                                                         | SUITABLE                                                                            |
| Buried Pipe                                                        | SUITABLE                                                                          | SUITABLE                                                                            | NOT SUITABLE                                                                        | RECOMMENDED                                                                         |

## TECHNICAL SPECIFICATION SUMMARY

(Subject to change)

| Ring type                         | EFC-Lite                                                 | EFC-HT                             | HD                                                                                     | Low Profile (Slinky)               |
|-----------------------------------|----------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------|------------------------------------|
| <b>Available sizes</b>            |                                                          |                                    |                                                                                        |                                    |
| Nominal Pipe Sizes (NPS)          | 2" to 8" (DN 50 to 200)                                  | 2" to 8" (DN 50 to 200)            | 3", 4", 6" (DN 80, 100, 150)                                                           | 2" to 8" (DN 50 to 200)            |
| <b>Transducer Features</b>        |                                                          |                                    |                                                                                        |                                    |
| Transducer Type                   | SD/HC                                                    | SHT/HCT                            | HD                                                                                     | LA                                 |
| Interchangeable Transducers       | Yes                                                      | Yes                                | Yes <sup>(1)</sup>                                                                     | Yes                                |
| Transducer Quick Release Tool     | Yes                                                      | No                                 | No                                                                                     | No                                 |
| <b>Ring Features</b>              |                                                          |                                    |                                                                                        |                                    |
| Operating Frequency Range         | Standard                                                 | Standard                           | High                                                                                   | Standard/High <sup>(2)</sup>       |
| Closing Mechanism                 | Yoke arms                                                | Yoke arms                          | Yoke arms                                                                              | Over centre latch                  |
| Operating LED Button              | Yes                                                      | Yes                                | No                                                                                     | No                                 |
| Coupling Method                   | Individual spring loading                                | Individual spring loading          | Individual spring loading                                                              | Tensioning band                    |
| <b>Physical Characteristics</b>   |                                                          |                                    |                                                                                        |                                    |
| Radial Clearance                  | 76 mm [3"]                                               | 76 mm [3"]                         | 50 mm [2"]                                                                             | 25 mm [1"]                         |
| Axial Clearance                   | 10 cm [4.0"]                                             | 12 cm [4.8"]                       | 8.5 cm [3.4"]                                                                          | 23.5 cm [9.3"]                     |
| Operating Temperature             | -40°C to 150°C<br>[-40°F to 302°F]                       | -40°C to 350°C<br>[-40°F to 662°F] | -40°C to 250°C<br>[-40°F to 482°F]                                                     | -40°C to 120°C<br>[-40°F to 248°F] |
| <b>Interface</b>                  |                                                          |                                    |                                                                                        |                                    |
| Connectivity to Wavemaker®        | Multi-channel Lemo® connection cable                     |                                    |                                                                                        |                                    |
| Auto Ring Recognition             | Yes                                                      |                                    |                                                                                        |                                    |
| Transduction System Compatibility | Wavemaker® G5 or<br>Wavemaker® G4 <sup>mini</sup> (Full) |                                    | Wavemaker® G5,<br>Wavemaker® G4 <sup>mini</sup> (Full) or Wavemaker® G4 with MF Option |                                    |

<sup>(1)</sup> Frequent changing of transducers is not recommended.

<sup>(2)</sup> Subject to initial configuration.



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