





SOLID RINGS

Technical Specifications

Guided Ultrasonics Ltd. (GUL) produces a range of application specific solid type transduction rings for the inspections of small size piping (typically between 2" and 8" in diameter). Although in most cases, each type of ring could be used in multiple applications, some may work better than the others. This comparison table provides guidance on the suitability of each ring type for a variety of common applications. However, if in doubt, please contact us for further information.

RING TYPE	 EFC-Lite	 EFC-HT	 HD	 Low Profile (Slinky)
Application Areas				
Generic Pipe	Recommended	Recommended	Suitable	Suitable
Typical Pipe Rack	Recommended	Recommended	Suitable	Suitable
CUI	Recommended	Recommended	Suitable	Suitable
High Temperature Pipe (100°C and 150°C)	Not suitable	Recommended	Not suitable	Not suitable
Extreme High Temperature Pipe (150°C to 350°C)	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	Recommended
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)
Available sizes				
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)
Transducer Features				
Transducer Type	SD/HC	SHT/HCT	HD	LA
Interchangeable Transducers	Yes	Yes	Yes ⁽¹⁾	Yes
Transducer Quick Release Tool	Yes	No	No	No
Ring Features				
Operating Frequency Range	Standard	Standard	High	Standard/High ⁽²⁾
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
Physical Characteristics				
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 [-40°F to 302°F]	-40°C to 350°C [-40°F to 662°F]	-40°C to 250°C [-40°F to 482°F]	-40°C to 120°C [-40°F to 248°F]
Interface				
Connectivity to Wavemaker®	Multi-channel Lemo® connection cable			
Auto Ring Recognition	Yes			
Transduction System Compatibility	Wavemaker® G4 ^{mini}		Full (or Licensed) Wavemaker® G4 ^{mini}	

(1) Frequent changing of transducers is not recommended.

(2) Subject to initial configuration.