









INFLATABLE RINGS

Technical Specifications

GUL produces a range of application specific inflatable type transduction rings for the inspections of large size piping (typically between 6" and 36" in diameter). Larger sizes (greater than 36") can be inspected by joining two rings of the same type together. There are a number of transducer module options for each type of ring. In most cases, each combination of ring and modules could be used in multiple applications but some may work better than the others. This comparison table provides guidance on the suitability of each ring type and modules for a variety of common applications. However, if in doubt, please contact us for further information.

RING TYPE									
	Compact®			EFC		HT		HD	
MODULE TYPE									
	EC-Trio	EC-30	EC-42	Standard	Adjustable	HT	Adjustable	HD	Adjustable
Application Areas									
Generic Pipe	Recommended	Suitable	Not suitable	Recommended	Recommended	Suitable	Recommended	Not suitable	Recommended
Typical Pipe Rack	Recommended	Suitable	Not suitable	Suitable	Recommended	Suitable	Recommended	Not suitable	Recommended
CUI	Recommended	Suitable	Not suitable	Suitable	Recommended	Suitable	Recommended	Not suitable	Recommended
High Temperature Pipe (100°C and 150°C)	Suitable	Suitable	Suitable	Suitable	Suitable	Recommended	Suitable	Suitable	Suitable
Extreme High Temperature Pipe (150°C to 350°C)	Not suitable	Not suitable	Not suitable	Not suitable	Not suitable	Recommended	Not suitable	Not suitable	Not suitable
Tight Access	Recommended	Recommended	Recommended	Suitable	Suitable	Suitable	Suitable	Suitable	Suitable
Generally Corroded Pipe	Recommended	Suitable	Suitable	Suitable	Recommended	Suitable	Recommended	Not suitable	Recommended
Test under Supports on Clean Pipe	Suitable	Not suitable	Not suitable	Not suitable	Suitable	Not suitable	Suitable	Recommended	Suitable
Welded Supports	Suitable	Not suitable	Not suitable	Not suitable	Suitable	Not suitable	Suitable	Recommended	Suitable
Minimize Dead Zone	Recommended	Suitable	Not suitable	Suitable	Recommended	Suitable	Recommended	Recommended	Recommended
Pipe with Bitumen Coating	Recommended	Not suitable	Recommended	Not suitable	Recommended	Not suitable	Recommended	Not suitable	Recommended
Concrete Lined Pipe	Recommended	Not suitable	Recommended	Not suitable	Recommended	Not suitable	Recommended	Not suitable	Recommended
Soil Interface	Recommended	Suitable	Not suitable	Suitable	Recommended	Suitable	Recommended	Recommended	Recommended
Concrete Interface	Recommended	Not suitable	Not suitable	Not suitable	Recommended	Not suitable	Recommended	Recommended	Recommended
Buried Pipe	Suitable	Not suitable	Suitable	Not suitable	Recommended	Not suitable	Suitable	Not suitable	Recommended

TECHNICAL SPECIFICATION SUMMARY *(Subject to change)*

RING TYPE	Compact®			EFC		HT		HD	
MODULE TYPE	EC-Trio	EC-30	EC-42	Standard	Adjustable	HT	Adjustable	HD	Adjustable
Available sizes									
Nominal Pipe Sizes (NPS)	5" to 40" (DN 125 to 900)			6" to 36" (DN 150 to 900)		6" to 36" (DN 150 to 900)		6" to 36" (DN 150 to 900)	
Module Features									
Transducer Type	EC			SD	ST	HT	ST	HD	ST
Multiple Transducer Spacing	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Operating Frequency Range	Low - High	Standard	Very Low - High	Standard	Very Low - High	Standard	Very Low - High	Very High	Very Low - High
Module Connection	USB			MCX		MCX		MCX	
Module Weight	174g	130g	130g	179g	260g	253g	260g	119g	260g
Quick Module Swapping	Yes			No		No		No	
Ring Features									
Closing Mechanism	Latch			Ratchet		Ratchet		Ratchet	
Interchangeable Modules	Yes								
Coupling Method	Pneumatic								
Pressure Sensor	No			No		Yes		Yes	
Orientation Sensor	Yes			No		Yes		Yes	
Temperature Sensor	Yes			No		Yes		Yes	
Ring Joining	Yes								
Automatic Module Recognition	Yes			No		No		No	
Lightweight Design	Yes			No		No		No	
Physical Characteristics									
Radial Clearance	38mm [1.5"]			63mm [2.5 inch]		63mm [2.5"]		63mm [2.5"]	
Axial Clearance	14cm [5.6"]			21.5cm [8.5 inch]		21.5cm [8.5"]		21.5cm [8.5"]	
Operating Temperature	-40°C to 150°C [-40°F to 302°F]			-40°C to 150°C [-40°F to 302°F]		-40°C to 350°C [-40°F to 662°F]	-40°C to 150°C [-40°F to 302°F]	-40°C to 150°C [-40°F to 302°F]	
Interface									
Connectivity to Wavemaker®	Multi-channel Lemo® connection cable								
Auto Ring Recognition	Yes								
Number of Channels	12 ⁽¹⁾ or 16			24		12 ⁽¹⁾ or 16	12 ⁽¹⁾ or 16	12 ⁽¹⁾ or 16	
Transduction System Compatibility				Wavemaker® G4 ^{mini}				Full (or Licensed) Wavemaker® G4 ^{mini}	

⁽¹⁾ Only available for 6" size.