Gamah™
PositiveLok Couplings

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Eaton's Gamah PositiveLok couplings are ideal lightweight flexible couplings for aerospace fuel and environmental control systems and are available in alluminum, stainless steel and titanium. With proper seal selection, the Gamah PositiveLok coupling is well suited for use in fluid systems ranging in temperature from -65 to +700°F (-53.8°C to 371.1°C).

The Gamah PositiveLok coupling engages automatically only when the nut and coupler are properly assembled which leads to simple, quick and reliable visual inspection. The innovative "Indicator Stripe" is a vivid contrasting color around the circumference of the coupling. The stripe is highly visible until it is assembled and the positive locking ring snaps into place.

To assemble the PositiveLok coupling, the nut is threaded onto the coupler. This is accomplished with either a standard thread or a high-helix angle thread that allows installation within a quarter of a turn. The nut pushes against the lock ring, which is affixed to the coupler via a spring mechanism. This spring pushes the lock ring into axial engagement with the nut creating a positive interference fit. Since the lock ring is engaged with, and cannot rotate relative to the coupler, the nut is locked until disassembly.

Features:

- Positive, self-locking feature eliminates the need for lockwire, thread locking inserts, and conventional electrical bonding hardware.
- Designed to mate with all Gamah and other aerospace standard flanges, (AS1650, AS1710, etc.) and therefore, are interchangeable with threaded and threadless (clamshell) couplings now in service throughout commercial and military aerospace.
- Eliminates improper installation and in-service uncoupling.
- Reduces installation time and production labor costs.
- Visual, audible and tactile feedback of correct installation.
- Available in standard threaded and 1/4 turn quick-acting styles.
- Weight competitive with AS1650, AS1710 and Gamah threaded couplings.
- Available in captured and removable styles.
- Design provides positive visual indication of proper installation.
- No special tools are required.
- Allows for 4 degrees of angulation per joint.

Gamah Coupling Series 55

Gamah Coupling Series 561

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Specifications

MODEL	MATING FLANGE TYPE	OPERATING PRESSURE (psi)	OPERATING TEMPERATURE	BURST PRESSURE (psi)	QUALIFICATION TEST SPECIFICATION
Series 50	Gamah (Series 30)	125	-65°F to 300°F (-53.8°C to 148.8°C)	500	AS-1650 and MIL-C-22263B
Series 55	AS-1650	230	-65°F to 300°F (-53.8°C to 148.8°C)	690	AS-1650 and MIL-C-22263B
Series 561	Gamah (Series 30)	125	-65°F to 550°F (-53.8°C to 287.7°C)	276	Commercial Aircraft: ECS/Fuel
Series 562	Gamah (Series 30)	125	-65°F to 550°F (-53.8°C to 287.7°C)	276	Commercial Aircraft: ECS/Fuel
Series 563	Gamah (Series 30)	125	-65°F to 550°F (-53.8°C to 287.7°C)	276	Commercial Aircraft: ECS

Lightning Qualifications

These couplings conform to MIL-STD-1757A, RTCA/DO-1600 for wave form B lightning protection compliance, and are SFAR-88 compliant for use in aircraft fuel systems.

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