

Linkage Hardware

Linkage components connect the actuator shaft to the engine control lever. A good linkage contributes to accurate, stable and responsive performance with minimal play or friction.



Features:

- Allows for minor misalignments
- Minimal friction, binding and backlash
- Threaded rod for longer linkages
- Spherical male and female rod-end bearings for shorter linkages
- Built to withstand extreme conditions
- Corrosion resistant

Kit Contents:

Long Linkage Kit includes:

- (1) Threaded rod
- (4) Hex nuts
- (4) Split lockwashers
- (1) Hex screw
- (2) Rod ends, female
- (1) Clevis

Short Linkage Kit includes:

- (3) Hex nuts
- (3) Split lockwashers
- (1) Hex screw
- (1) Rod end, female
- (1) Rod end, male
- (1) Clevis

Order Information:

APECS Linkage Kits

ORDER NO.	Description	Thread Size	Center to center of spherical rod ends	
			Minimum Length	Maximum Length
SA-4661	Long Linkage Kit	¼-28	3.3"	7.9"
SA-4845	Long Linkage Kit	M6	83.8 mm	200.6 mm
SA-4742	Short Linkage Kit	¼-28	2.2"	2.6"
SA-4844	Short Linkage Kit	M6	55.8 mm	66.0 mm

Individual APECS Kit Components

ORDER NO. for Thread Size:

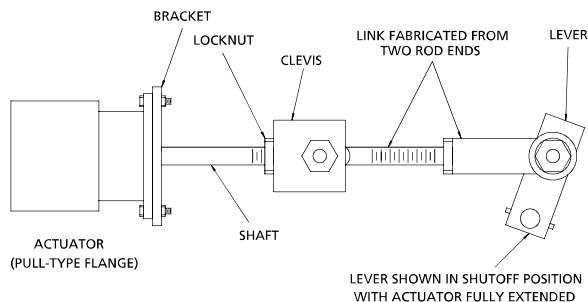
¼-28	M6	Description
SA-4599	SA-4804	Clevis (fits actuators to the rod ends sold below)
SA-4619	SA-4843	Spherical rod end, female
SA-4600	SA-4842	Spherical rod end, male
SA-4602	SA-4846	Long threaded rod

E.E.C. Directive Compliance: All parts supplied by Woodward are classified as components, and therefore are not "CE" marked. Please contact factory direct for details on specific product compliance with 89/336/EEC and 89/392/EEC directives.

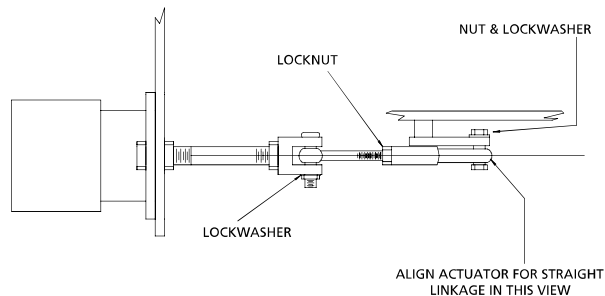
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Assembled Kits:

SIDE VIEW



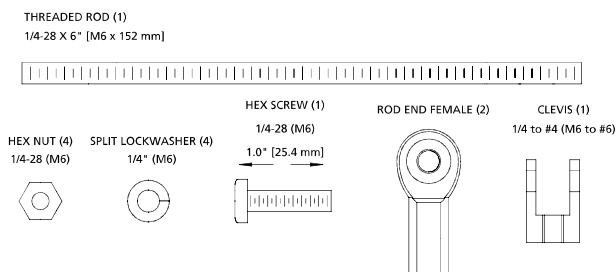
TOP VIEW



NOTE: Actuator and control lever are not part of the linkage kit.

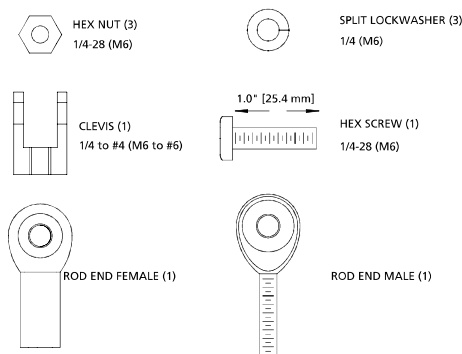
Kit Components:

LONG LINKAGE KIT



NOTE: Kit components are bagged, not assembled.

SHORT LINKAGE KIT



NOTE: Kit components are bagged, not assembled.



WARNING: An overspeed shutdown device, independent of the APECS system, should be provided to prevent loss of engine control that may cause personal injury or equipment damage.