

### Rope Grabs

A rope grab w/lanyard or energy absorber are used to connect a lifeline to a FBH as shown at Fig.1. Rope grabs have two primary functions. 1)A means to adjust a worker's position on the lifeline. 2)A component that locks onto the lifeline to arrest a fall. There are 3 primary types of rope grabs that are used on SAS 5/8" (16mm) lifelines as specified on pages 4 and 5.

**Table 4.0 Rope Grab Performance Specifications:**

Model/Name	Fig.	Type		Locking	▲	Tensile Strength
4015-M Integral Adjuster	4.4	Captive	Mechanical	1 Direction	24"(300mm)	3,600lb(16kN)
4015-C/Z Fall Arrester	4.5	Removable				

Maximum degree of slope= Vertical. Minimum degree of slope=Horizontal.  
 ▲Deceleration is the distance required for a rope grab to arrest a 6ft(1.8m) using an energy absorber specified for the users wt. See page 3 Table 3.0.

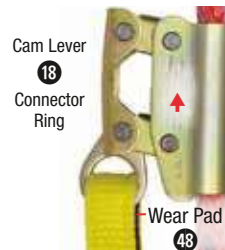
### Integral Rope Grab(RG)

SAS model 4015-M is a single direction captive RG that is not removable from the lifeline and may be factory attached to a web lanyard or energy absorber as shown at Figs.4.2-4.3 or may be attached using a Class 1 connector as shown at Figs.4.6-4.7. Position adjustment is made by holding the cam lock lever down and moving the RG up or down the lifeline. See Fig.4.1. Always install with the indicator arrow pointing to the lifeline anchor point as shown at Fig.4.4. **Compliance:** OSHA 1926:502/ANSI Z359.1-07

**WARNING!**  
 Rope Grabs(RG) and Fall Arresters(FA) must be installed with the direction arrow pointing to the anchorage end of the lifeline. Failure to do so will result in serious injury or death in the event of a fall. DO NOT attach an RG or FA directly to the dorsal or side D-ring of a harness or safety belt.

### Factory Attached Rope Grabs

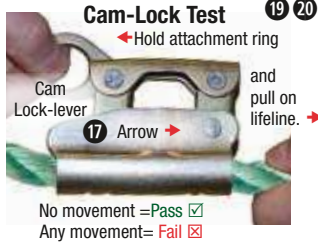
**Fig.4.2**  
 Web Lanyard +4015-M Rope Grab



**Fig.4.3**  
 Energy Absorber + 4015-M Rope Grab



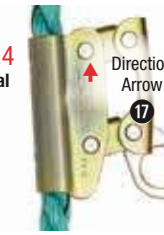
**Fig.4.0**  
 Cam-Lock Test (19, 20)



**Fig.4.1**  
 Cam Mobility Test

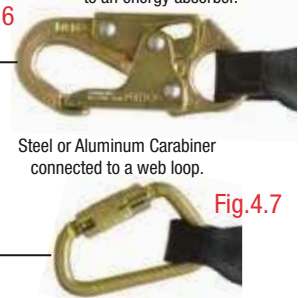


**Fig.4.4**  
 Integral Rope Grab



**Compatible Connector Options**  
 Snaphook factory attached to an energy absorber.

**Fig.4.6**



**Fig.4.7**

### Fall Arrester Specifications (FA)

SAS model 4015-C/Z are classified as △ADP Fall Arresters with a "Panic Grab" function that guard against unintentional disengagement during a fall. Always install with the indicator arrow pointing to the lifeline anchor point as shown at Figs.4.5-4.10. FA's require a connecting component with a maximum length of 30" (750mm) as shown at Figs.4.13-4.14 for connection to FBH. FA's are factory attached to a web lanyard or energy absorber or may be connected with a snaphook or carabiner as shown at Figs.4.6-4.7. Remove from the lifeline by opening the gate shown at Fig.4.10.

△ADP=Automatic Dorsal w/Panic Grab. CSA term.

**Compliance:** OSHA 1926:502/ANSI Z359.1-07 CSA Z259.2.5

**Table 4.1**

Fig.	Function Test /Inspection	Pass ✓	Fail. ✗
4.5-4.4	Correct orientation	Arrow points up	Arrow points down
4.0-4.10	Cam lock/Debris	No interior debris	Debris present
4.0-4.11	RG/FA Cam Locks	Locks onto rope	Will not lock
4.1-4.12	Mobility	Rope moves easily	Rope won't move
4.9	Gate Locks(FA only)	Gate opens/closes	Gate won't open/close

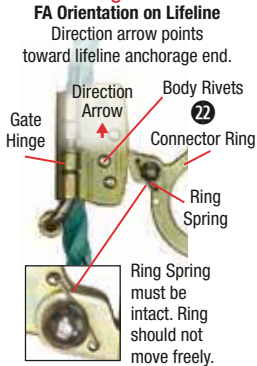
**WARNING!** Do not apply lubricants to the rope grab.

**Maintenance Advisory!**  
 A lifeline diameter will grow with use and may restrict the mobility of an RG or FA. Function may be restored by cleaning or replacing the lifeline.

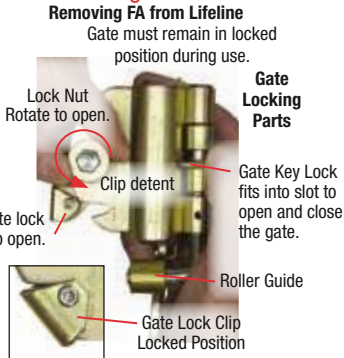
### Inspection/Function Tests

Prior to daily use, rope grabs are required to pass the inspection and the function tests specified in this section and Table 4.1. Consult the Rope Grab inspection section at the back of this manual for additional inspection requirements. **Remove from service if any inspection or tests fail.**

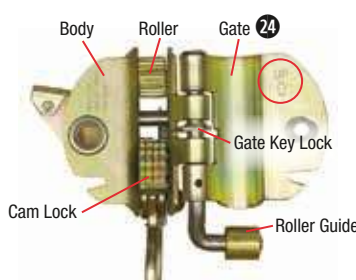
**Fig.4.8**



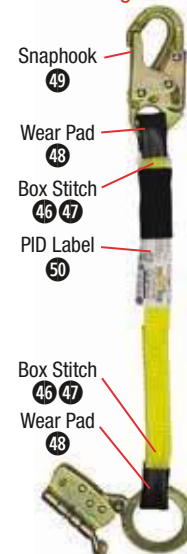
**Fig.4.9**



**Fig.4.10**  
 FA Interior must be clean and free of any debris or contamination.



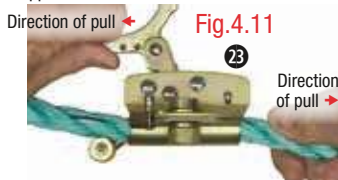
**Fig.4.13**



**Fig.4.14**



**Cam Lock Function Test**  
 Hold connector ring and pull lifeline from opposite end. Lifeline should not move.



**Fig.4.11**  
 Mobility Test

