

## **GENERAL DESCRIPTION**

This manual is provided as an aid to servicing the ARVA AR 2240 LD single arm luffing davit, used in the launching and recovery of inflatable boats.

This davit is designed for durability and trouble free operation in a wide range of conditions including rough seas.

The davit is powered by a marine service electric motor. In case of power failure, operation is made possible through the use of a ratchet for the

winch and slew as well as a hand pump for recharging the accumulator.

The davit arm is raised and lowered by a single hydraulic cylinder.

The davit arm and upper structure rotate with the hydraulic motor a total of 270 degrees.

The winch is equipped with an emergency brake release system.

## **SPECIFICATIONS**

### **DIMENSIONS**

Design Specifications:

Operates  $-26^{\circ}$  to  $+99^{\circ}$ F  
20° heel  
10° trim

Pedestal Height: 32"  
Pedestal Diam.: 18"  
Height: 11' 3" – arm lowered  
Length: 161" – pivot to sheave  
Gross Weight: 3,420 lbs.

### **CAPACITY & REACH**

Capacity and Reach: 2,000 lbs.  
@ 13' 2"

### **POWER SOURCE**

Power Source: 10 gpm at 2500 psi  
from the power unit  
mounted in the pedestal

### **BOOM**

General: Reinforced to withstand side loading. Cushion relief in boom lift cylinder

Operation: Davit arm is raised and lowered by a single hydraulic cylinder

Type: Fabricated box section  
Elevation:  $+19^{\circ}$  to  $+63^{\circ}$  from horizontal

Length: 110" to 214"  
Tip Height: 145"

### **HOIST**

General: Hydraulic motor drives through a planetary gear reduction, with counterbalance valve and a failsafe hydraulic released spring applied internal disc brake

Hoist Speed: 2,000 lbs. at 70 fpm  
hydraulic hoisting,  
120 fpm gravity  
lowering  
Hoist Wire Rope: 100' X 3/8",  
2,400 lbs. capacity  
Luffing Speed: 8 sec. cycle (full  
down-full up)

### **SWING**

Drive: Power by a marine service  
electric motor  
Speed: 0 to 1.0 rpm  
Rotation: 270 degree limited

### **CONTROLS**

Controls: Remote deck mounted  
console, 3-section  
directional valve, remote  
operated remote start/stop  
in console