

TEST LOAD DATA AND PROCEDURE

LIFE BOAT

1. SPECIFICATION

BURRARD

Davit Type : GRA 10400/4425

Boat Type : T.E.M.L.B. Size : L 9.03 M x B 3.53 M x D 2.97 M

WB = Weight of empty boat + equipment 5050 kg

N = No of persons 66

WN = Weight of Persons = $N \times 75 \text{ kg}$ = 4950 kg

WL = Weight for launching boat = 5250 kg

= WB + WLB

(+ 2N (150 kg) : 2 persons if req'd)

WLB = Weight of L/Block + Ropes (200 kg)

WT = Total Davit Load (per set)

= WB + WN + WLB = 10200 kg

2. BOAT DAVIT TESTS (PER SET)

SAFE WORKING LOAD = 10400 KGS

TEST	LOAD	CONDITION
Static on Each Arm	$\frac{S \text{ WL} \times 2.2}{2} = 11440 \text{ kg}$	SIMULATED 15° LOW SIDE LIST + 10° TRIM
Hook	$\frac{\text{WL} \times 2.5}{2} = 6562.5 \text{ kg}$	STRAIGHT PULL
Lower Block & Suspension Link	$\frac{\text{SWE} \times 2.5}{2} = 13000 \text{ kg}$	STRAIGHT PULL

3. BOAT WINCH TEST

Winch Type : BE 7800

Safe Working Load = 7800 KG

WP = Max'm load on winch, pulling in (from Calc. dia.) = 6162.5kg

TEST	LOAD	CONDITION
Static	$\text{SWL} \times 1.5 = 11700 \text{ kg}$	STRAIGHT PULL
Hoisting Electric Winches	WP = 6162.5 kg	
Lowering Speed of Boat	WT = 5000 kg	TO BE BETWEEN 36/72 M/MIN OFF BARREL

MECHANICAL DAVIT

P.H.A. HYDRAULIC DAVIT

LANDING BARGE DAVIT

SPECIFICATION

Safe Working Load 38520 lbs at 15° low side list
Keel Travel 14'-6"

Position crickets c-c
27'2" → } 38520 lbs
24'4" → } 17472kg
19'6" → 13500 lbs

PERFORMANCE

Hoisting - Slow 21 ft/min Fast 42 ft/min
Lowering Speed between 60/120 ft/min
Luffing in/out by hydraulic cylinders, with hydraulic supply
20 GPM at 2000 P.S.I.

ELECTRICAL EQUIPMENT

Supply - 600 volts 3 ph - 60 cycles.
Hoist motor - Brook Crompton - 48/24 KW - 1800/900 R.P.M.
Fitted with anti-condensation heater 120V 60Hz.

Hoist Limit Switch - K.A. Schmersal GmbH & Co
Type TA422 - 01Y Form L Lever

Starter and control switches - Acme Electrical Mfg Co Ltd.

ROPE DETAILS

2 lengths 20 mm dia. Galvanised Multi-Strand rope of 6 x 36 +
Fibre core construction, 180 KGF/mm² material with a minimum
breaking load of 23800 KGF.

1 Length = 60 metres
1 Length = 48 metres.

Both ends to be left plain and wire bound.

MIRANDA

INSTRUCTION MANUAL

SCHAT REF NO J5988E
DATE OF ISSUE :

GENERAL

EQUIPMENT: HANDLING SYSTEM FOR RIGID INFLATABLE BOAT

CUSTOMER: GARDE COTIERE CANADIENNE
101 BOUL CHAMPLAIN
QUEBEC
CANADA

ORDER NO: 1389 / 93036

SHIP: MARTHA L BLACK

DESIGNER: SCHAT-DAVIT CO LTD (UK) / SCHAT-DAVIT CO CANADA LTD

MANUFACTURER: SCHAT-DAVIT COMPANY LTD (UK)

MIRANDA

GRAVITY DAVIT TYPE MRT

(SWL 3900 KGS)

PERFORMANCE

- Running out - gravity - boat + 2 crew.
Lowering - gravity - boat + 15 persons (3800 kgs max).
Operating parameters up to 20° heel + 10° trim.
Lowering speed approximately 40 M/Min.

- Hoisting by hydraulic motor.
Design load (3900 kgs).
Hoist speed approx 0-55 M/Min.

- Manual handcrank back-up.

- Gravity pay-out of cradle - as in lowering at reduced speed.