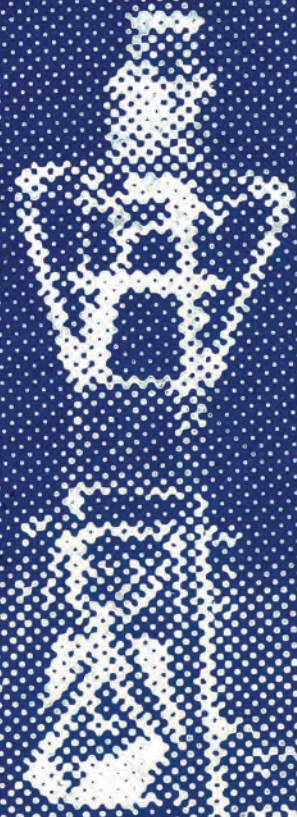




PERKO





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Catalog No. 165

1959

PERKINS MARINE LAMP AND HARDWARE CORP.

(ESTABLISHED 1907 — INCORPORATED 1917)

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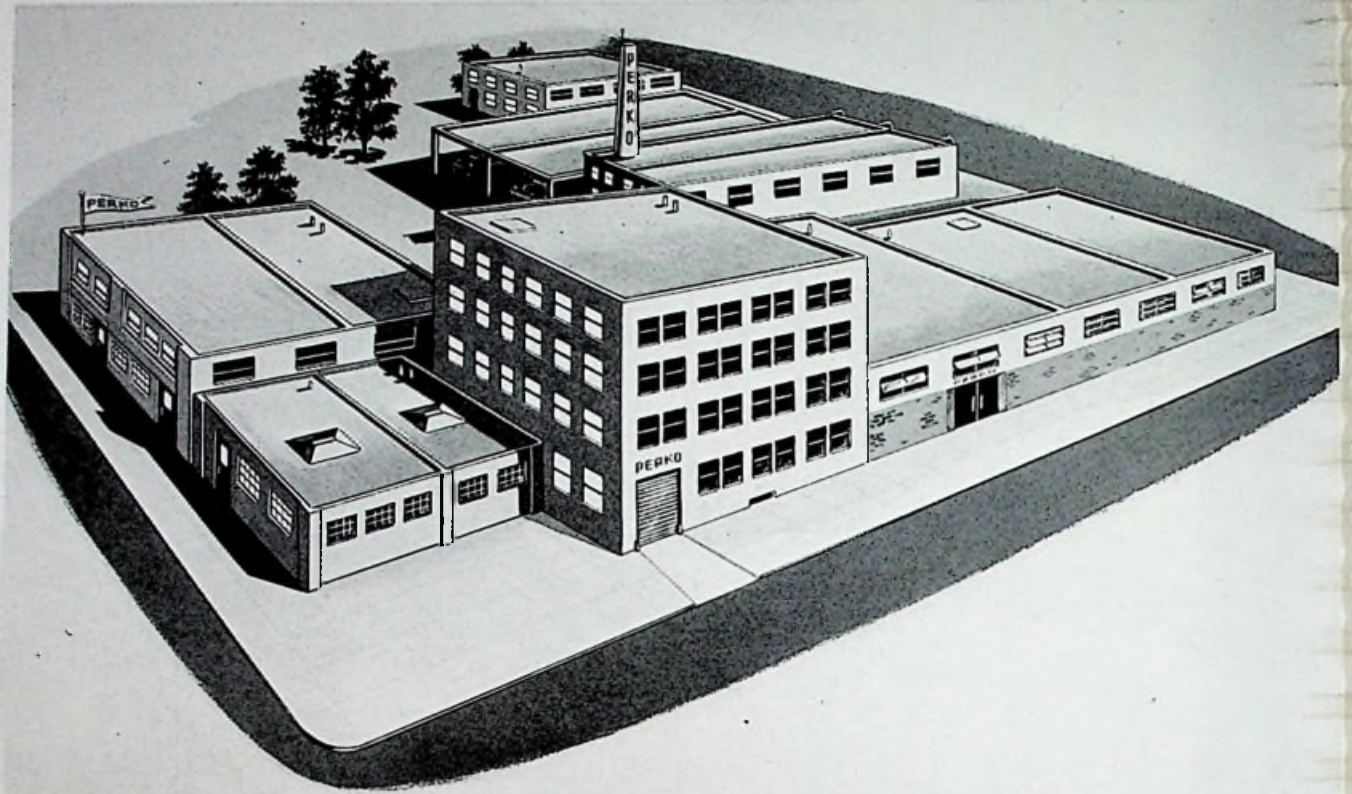
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Manufacturers of

SHIP AND BOAT EQUIPMENT
NAVIGATION LIGHTS
MARINE HARDWARE
FOR ALL SIZES AND TYPES OF VESSELS

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FOREWORD AND GENERAL INFORMATION

This catalog has been arranged for convenient reference by grouping the material according to its application in the marine field.

You will find illustrated herein a number of new items added to our fast growing line, indicating constant attention to changes in the marine field, our determination to keep abreast of the times and to retain the ability to supply the most desirable and modern equipment.

Of course we continue our strictest rules of adherence to highest quality and finish, fastest possible delivery and cooperation with our numerous friends and customers throughout the world.

PRICES AND TERMS

Our costs are subject to change due to causes beyond our control. The prices listed herein are only intended for guidance of our jobbers and do not necessarily establish resale prices. Applicable governmental regulations, shipping costs and other complications must be considered in arriving at a fair price. I.E. In areas west of the Mississippi, prices are generally 10% to 15% higher because of the heavy shipping cost involved. All prices are subject to change without notice and are F.O.B. New York, unless quoted otherwise. Terms are 30 days net; 2% if payment is sent 10 days from date of invoice.

GUARANTEE

Every item bearing our trade-mark is guaranteed free from defects at time of shipment. In case of defects, adjustments will gladly be made, provided the material is returned to our factory and repairs have not been attempted by other than our own workmen.

RETURN GOODS

Material made to order is not returnable. Stock material is only returnable when permission has been granted by us, and is subject to a handling and refinishing charge. Shipping charges must be prepaid.

WEIGHTS

The weights given in this catalog are not guaranteed, but have been carefully determined and should be sufficient for general purposes.

RATING

Orders from firms unknown to us and having no satisfactory commercial credit rating must be accompanied by cash or satisfactory references. C.O.D shipments will be made if a 25% deposit is sent with order.

SHIPPING INSTRUCTIONS

Customers should send specific shipping instructions, if this is not done, we will use our own judgment in selecting route.

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United States Coast Guard

New Revised Motor Boat Rules & Regulations Governing Navigation Lights

Effective June 4, 1956 — Public Law No. 522

OPTION No. 1

OPTION No. 2

(a) Inboards, outboards, and auxiliaries under 26 feet in length, carry, as before, a combination red and green lantern forward and an all around white light aft; show, as before, both lights when running under power alone. Auxiliaries, if running under both sail and power, show both lights instead of just the all around white light. Also, auxiliaries, if running under sail alone, show the combination lantern instead of the all around white light.

(b) Inboards, outboards, and auxiliaries of 26 feet or more, but not more than 65 feet, in length, and under 40 gross tons in weight, carry, as before, a 20 point white light forward, an all around white light aft, and separate red and green sidelights; show, as before, each of these lights when running under power alone. Auxiliaries, if running under both sail and power, show each of these lights instead of just the sidelights. If running under sail alone, auxiliaries show, as before, the red and green sidelights and turn off the white lights.

In the case of Option 2, inboards, outboards, and auxiliaries, under or over 26 feet in length, but not more than 65 feet in length, and under 40 gross tons in weight, carry either a combination lantern or separate red and green sidelights, a 20 point white light forward, and a 12 point white light at the stern; show each of these lights when running under power alone or both sail and power. Auxiliaries, if running under sail alone, turn off the 20 point white light and show the sidelights (or combined lantern) and the 12 point white stern light.

Pertinent details for inboards, outboards, and auxiliaries subject to the Motorboat Act which exercise Option 2 are to be found in Rules 2 (a), 7 (a), 7 (b), and 10 (a) of the Regulations for Preventing Collisions at Sea, 1948, commonly referred to as International Rules. When checking the characteristics of the lights and their required separation, if the boat is less than 40 gross tons, Rules 7 (b), 7 (a), and 10 (a) should be read and applied in the order listed in this sentence, and Rule 2 (a) omitted.

Option No. 1 Lights are Legal on Inland Waters, Western Rivers, and The Great Lakes only. Visibility requirements, Sidelights 1 Mile. Bow and Stern Lights 2 Miles.

Option No. 2 are New International Rule Lights legal anywhere, Inland Waters, Lakes, or High Seas. Visibility requirements, Sidelights 1 Mile. Bow and Stern Lights 3 Miles.

SAFETY EQUIPMENT

VESSELS	0 to less than 16 feet	16 to less than 26 feet	26 to less than 40 feet	40 to not more than 65 feet
WHISTLE	NONE	1 — hand, mouth, or power-operated. Audible at least ½ mile.	1—hand or power-operated. Audible at least 1 mile.	1 — power-operated. Audible at least 1 mile.
BELL	NONE	NONE	1 — which produces, when struck, a clear bell-like tone of full round characteristics.	
LIFESAVING DEVICES	1 — approved life preserver, buoyant vest, ring-buoy, or buoyant cushion for each person on board.			1—approved life preserver or ring buoy for each person on board.
FLAME ARRESTERS	1 — on each carburetor of all gasoline engines installed after April 25, 1940, except outboard motors. (Approved)			
VENTILATION	At least 2 ventilators with cowls or equivalent capable of removing gases from the bilges in engine and fuel tank compartments of boats constructed or decked after April 25, 1940, using gasoline or other fuel of a flashpoint less than 110° Fahrenheit.			
FIRE EXTINGUISHERS	Any one of the following types of extinguishers: 1 quart vaporizing liquid 1½ gallon foam 4 pound CO ₂ 4 pound dry chemical None required on pleasure outboard motorboats of open construction.		Any two of the following types of extinguishers: 1 quart vaporizing liquid 1½ gallon foam 4 pound CO ₂ 4 pound dry chemical	Any three of the following types of extinguishers: 1 quart vaporizing liquid 1½ gallon foam 4 pound CO ₂ 4 pound dry chemical

NOTE: According to a new regulation, vaporizing liquid fire extinguishers will not be allowed on pleasure boats after January 1st, 1962. However, they are permitted until that time if in good serviceable condition.



The "Ranger"



Fig. 1218

Combination Bow Lights
 FOR SMALL MOTOR BOATS
Zamak Die Castings
 CHROMIUM PLATED
 Red and Green Fresnel Lenses
 Double Contact Electric Sockets

The "Aristocrat"



Fig. 1274

The "Rocket"



Fig. 1275

Fig.	Light Each	Height Inches	Size Base Inches	Length Overall Inches	Height Lens Inches	Flagpole Socket Inches	Weight Pounds
1218	\$6.85	3 1/2	6 1/4 x 3 7/8		2 5/16	3/4	3/4
1274	8.75	3 3/8	7 1/4 x 3 5/8		2 5/16	3/4	1 1/2
1275	9.90	3 1/2		9 3/4	1 1/2	3/4	2

Flag Staff Fig. 1230 - \$3.00 each

For details see page 15

SPARE LENSES

Spare Lenses for Figs. 1218 and 1274 see Fig. 259 Class A, Spec.
 Spare Lenses for Fig. 1275 see Fig. 259 Class A, Rocket.
 Spare Electric Sockets \$.75 each.



COMBINATION BOW LIGHTS

FOR SMALL MOTOR BOATS

Zamak Die Casting
WITH REBULBING FEATURE AND
FLAG POLE SOCKET



Fig. 1232

Complete with red and green fresnel lenses and double contact electric socket.

Chromium Plated Each	Height Inches	Size Base Inches	Height Lens Inches	Flag Pole Socket Inches	Weight Pounds
\$6.85	3 1/4	6 1/4 x 3 7/8	2 3/8	3/4	1

Spare Electric Socket \$.75 ea.

"Little Joe"

ZAMAK DIE CASTING — CHROMIUM PLATED

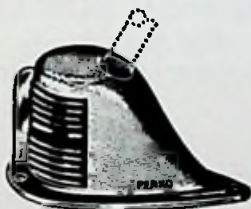


Fig. 1146

Has integral chromium plated color divider and angle flag pole socket. Complete with bulb.

Chromium Plated Each	Height Inches	Base Inches	Height Lens Inches	F. P. Socket Inches	Weight Ounces
\$4.25	2 1/4	4 1/2 x 2 3/8	1 7/8	1/2	7

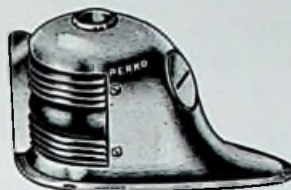
Spare Miniature Bayonet Socket, Each \$.55.

Spare Lenses, see Fig. 259 Class A—L.J. Each \$1.10.

Flag Pole, see Figs. 495 and 496 Size No. 1.

Heavy Gauge Wrought Brass

WITH REBULBING FEATURE AND
FLAG POLE SOCKET



Rear view showing method of changing bulb

Fig. 1140

Complete with red and green fresnel lenses and double contact electric socket.

Height Inches	Base Inches	Height Lens Inches	Flagpole Socket Inches	Weight Pounds
3 1/4	3 3/4 x 6 1/4	2 3/8	3/4	1
Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each	
\$9.25	\$9.95	\$1.70	\$.60	

Spare D.C. Sockets, see Fig. 747, No. 1.

Spare Lenses, see Fig. 259, Class A Standard.

Spare Rebulbing Feature Complete, Polished \$2.50, Chrome \$3.00 Each.

Zamak Die Casting

SELF CONTAINED BATTERY TYPE
WITH FLAG POLE SOCKET AND SWITCH
FOR SINGLE CELL FLASHLIGHT BATTERY



Fig. 1236

Battery and bulb easily replaced by removal of three screws from base.

With red and green fresnel lenses, miniature socket and bulb. Zamak die cast body. Battery not included.

Chromium Plated Each	Height Inches	Size Base Inches	Height Lens Inches	Flag Pole Socket Inches	Weight Pounds
\$9.50	3 1/4	6 1/4 x 3 7/8	2 3/8	3/4	1 1/4

Spare Lenses, See Fig. 259, Class A Special.

Spare Miniature Bayonet Socket and Switch Assembly for Fig. 1236, \$1.25 each.



Brass "2 in 1" Combination BOW LIGHT

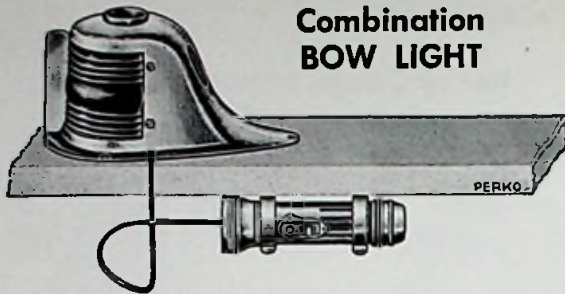


Fig. 1147

ALL BRASS LIGHT
WITH REBULBING FEATURE
FLAG POLE SOCKET — FLASHLIGHT CASE
WITH SWITCH — 2 SPRING CLAMPS — BULB
ALL WIRED READY FOR INSTALLATION

In addition to a very practical and attractive navigation light, the user has a 2 cell flashlight available and handy at all times as the flashlight case is complete with reflector for light projection.

Supplied with 4 feet of wire to permit location of flashlight case at most convenient spot. Lamp socket is miniature screw type.

Batteries are not included.

Height Light Inches	Base Light Inches	Height Lens Inches	Flag Pole Socket Inches	Weight Pounds
3 3/4	3 3/4 x 6 1/4	2 3/8	3/4	1 1/2
Chromium Plated Each		Spare Lenses Each		Spare Bulbs Each
\$15.00		\$1.70		\$.25

Zamak "2 in 1" Combination BOW LIGHT



Fig. 1235

ZAMAK DIE CASTING — CHROMIUM PLATED
WITH REBULBING FEATURE
FLAG POLE SOCKET — FLASHLIGHT CASE
WITH SWITCH — 2 SPRING CLAMPS — BULB
ALL WIRED READY FOR INSTALLATION

Supplied with 4 feet of wire to permit location of flashlight case at most convenient spot. Lamp socket is miniature screw type.

Batteries are not included.

Chromium Plated Each	Height Light Inches	Base Light Inches	Height Lens Inches	Flag Pole Socket Inches	Weight Pounds
\$11.25	3 3/4	6 1/4 x 3 3/8	2 3/8	3/4	1 1/2

Spare Lenses for Fig. 1147 see Fig. 259 Class A Std.
Spare Lenses for Fig. 1235 see Fig. 259 Class A Spec.

"Little Joe 2 in 1" Combination BOW LIGHT

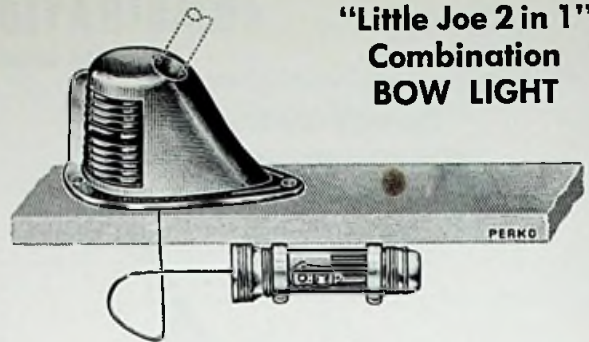


Fig. 1247

ZAMAK DIE CASTING — CHROMIUM PLATED
WITH FLAG POLE SOCKET — FLASHLIGHT CASE
WITH SWITCH — 2 SPRING CLAMPS
BULB—WIRED READY FOR INSTALLATION

See Figs. 1146 and 1147 for details, dimensions, spare parts, etc.

Chromium Plated Each	Height Light Inches	Base Light Inches	Height Lens Inches	F. P. Socket Inches	Weight Ounces
\$8.50	2 1/4	4 1/2 x 2 3/8	1 3/8	1/2	15

Cruiser Combination BOW LIGHT HEAVY GAUGE WROUGHT BRASS WITH REBULBING FEATURE AND F. P. SOCKET

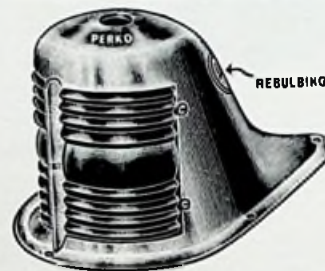


Fig. 1141

Polished Brass Each	Chromium Plated Each	Height Lens Inches	Base Inches	Height Lens Inches	F. P. Socket Inches	Weight Pounds
\$14.00	\$16.50	5 3/8	5 3/8 x 9 1/2	4 1/4	1	2

Spare Lenses, Each \$3.45.

Spare D.C. Sockets, see Fig. 747 No. 7 Each, \$9.00.

Spare Rebulbing Feature Complete, Polished Each, \$2.50.

Chromium Plated, Each, \$3.00.

Combination BOW LIGHT For Sail Boats WROUGHT BRASS — ELECTRIC



Fig. 1144

For mounting on forward part of mast.
Complete with red and green fresnel lenses and double contact electric socket.

Polished Brass Each	Chromium Plated Each	Height Overall Inches	Diam. Body Inches	Height Lens Inches	Weight Pounds
\$4.75	\$6.00	4 1/2	2 1/2	2 3/8	3/4



The "Tru-Beam" Stern Pole Light

Zamak Die Casting — Brass Pole

Chromium Plated

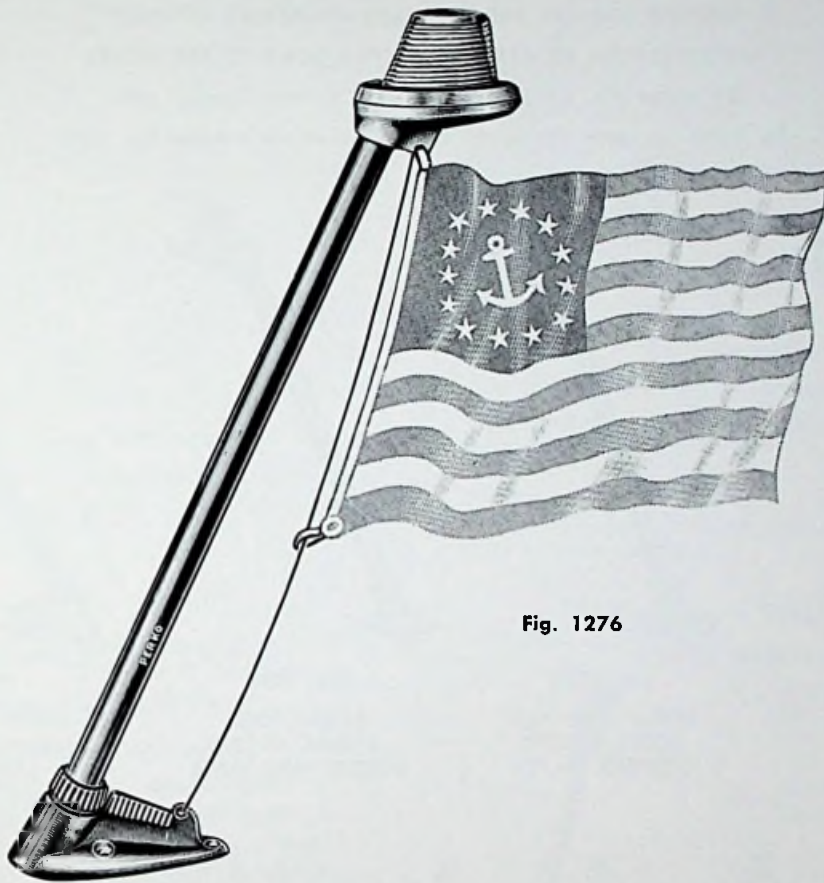


Fig. 1276

This attractive pole light is aptly named as the light is projected on a horizontal plane which means greatly improved visibility for the most important light on the boat.

The knurled nut on the base permits adjusting the height of the light down to 4 3/8 inches.

Complete with upper and lower flag halyard eyes, double contact electric socket, clear globe and wired, ready for installation.

No.	Maximum Length Inches	Each	Diameter Pole Inches	Dimensions Base Inches	Weight Pounds
1	20	\$ 9.25	3/4	4 5/8 x 1 3/4	1 1/8
2	24	9.75	3/4	4 5/8 x 1 3/4	1 3/8
3	30	10.35	3/4	4 5/8 x 1 3/4	1 3/4
4	36	10.95	3/4	4 5/8 x 1 3/4	2

Flag Pole Socket only \$3.50 each.

Spare Globes, see Fig. 281.

Spare Electric Sockets, \$.85 each.

NOTE: The above light can be adapted for use on international waters as a Bow Light or Stern Light by placing plastic shields over the top of the globe. Use Fig. 462, 225° or Fig. 463, 135° shown on page 16.

Standard Package, 12*



Adjustable Pole Lights

CHROMIUM PLATED

ALL WIRED — READY FOR INSTALLATION

POLE IS 3/4 INCH OUTSIDE DIAMETER HEAVY GAUGE BRASS TUBING

ELECTRIC SOCKETS ARE ALL BAYONET DOUBLE CONTACT

ALL ADJUSTABLE TO VARIOUS LENGTHS DOWN TO 4 3/4 INCHES

All except Fig. 1293 have 1 3/4 inch diameter fresnel globe

Fig. 1293 has same "Tru-Beam" globe used on our popular Fig. 1276



Fig. 605

ALL BRASS



Fig. 1233

BRASS POLE AND
GLOBE HOLDER
ZAMAK BASE



Fig. 1293

BRASS POLE
ZAMAK GLOBE
HOLDER AND BASE



Fig. 1294

BRASS POLE AND
GLOBE HOLDER
ZAMAK BASE

Size. No.	Maximum Length Inches	Fig. 605 Each	Fig. 1233 Each	Fig. 1293 Each	Fig. 1294 Each	Dimensions Base Inches		Weight Pounds
						605 1233 1293	1294	
1	20	\$ 9.50	\$8.00	\$ 8.50	\$ 9.00	3 3/8 x 2 1/4	4 5/8 x 1 3/4	1 1/8
2	24	10.00	8.50	9.00	9.50	3 3/8 x 2 1/4	4 5/8 x 1 3/4	1 1/4
3	30	10.60	9.10	9.60	10.10	3 3/8 x 2 1/4	4 5/8 x 1 3/4	1 3/8
4	36	11.20	9.70	10.20	10.70	3 3/8 x 2 1/4	4 5/8 x 1 3/4	1 5/8

Spare Globes for Figs. 605, 1233 and 1294 see Fig. 248.
for Fig. 1293, see Fig. 281.

Spare Flag Pole Sockets for Figs. 605 and 1294, \$3.50 each.
for Figs. 1233 and 1293, \$2.00 each.

Spare Electric Sockets for Figs. 605, 1233 and 1294, see Fig. 747 No. 2.
for Fig. 1293, \$.85 each.



Fig. 247

All above pole lights except Fig. 1293 can be supplied with Fig. 247 vertical ribbed globe illustrated. If desired be sure to specify.



Transom POLE LIGHT
 ALL BRASS—CHROMIUM PLATED
 1 3/4 INCH FRESNEL GLOBE
 DOUBLE CONTACT ELECTRIC SOCKET



Fig. 687

COMPLETE WITH CORK GASKET AND WIRED READY FOR INSTALLATION DIAM. POLE 3/4 INCH

No.	Dimensions of Bracket Inches	Weight Pounds
1	2 1/4 x 3/4	7/8
2	2 1/4 x 3/4	1
3	2 1/4 x 3/4	1 1/8
4	2 1/4 x 3/4	1 1/4

No.	Length Overall Inches	Each
1	20	\$ 8.75
2	24	9.25
3	30	9.85
4	36	10.45

For mounting on transom, with adjustable brackets.

IMPORTANT NOTE: Figs. 658 and 687 can be supplied with vertical ribbed acorn-shaped globe as illustrated specify Fig. 658A or Fig. 687A.

Cruiser POLE LIGHTS
 ALL BRASS—CHROMIUM PLATED
 1 3/4 INCH FRESNEL GLOBE
 DOUBLE CONTACT ELECTRIC SOCKET



Fig. 658

COMPLETE WITH CORK GASKET AND WIRED READY FOR INSTALLATION DIAM. POLE 3/4 INCH

No.	Dimensions of Bracket Inches	Weight Pounds
1	2 1/4 x 3/4	1 1/4
2	2 1/4 x 3/4	1 1/2
3	2 1/4 x 3/4	1 3/4

No.	Length Overall Inches	Each
1	24	\$13.50
2	30	14.00
3	36	14.50

Spare Glare Shields, \$1.75 Each

Designed for mounting on windshield of small cruisers

Top portion of pole is removable as illustrated. Electric connections are inside of tubular pole at joint and a cap is supplied to make lower portion watertight when top is removed.

Mounting brackets are adjustable and flexible to fit any shape of windshield post.

Adjustable POLE LIGHT
 HIGH INTENSITY

1 1/2 INCH FRESNEL BALL GLOBE
 BRASS POLE
 BRONZE BASE
 D.C. SOCKET, WIRED
 COMPLETE WITH CONNECTORS
 DIAM. POLE 3/4 INCH



Fig. 609

No.	Weight Pounds
1	1 1/4
2	1 1/2
3	1 1/2
4	1 3/4

No.	Maximum Length Inches	Chromium Plated Each
1	20	\$11.00
2	24	11.50
3	30	12.10
4	36	12.70

Flag Pole Socket Complete \$3.50 each

Adjustable to various lengths down to 5 inches. Knurled nut holds pole firmly in place.

"Little Joe" POLE LIGHT
 HIGH INTENSITY

1 1/2 INCH FRESNEL BALL GLOBE
 POLISHED ALUMINUM
 DOUBLE CONTACT ELECTRIC SOCKET



Fig. 625

An attractive companion for our "Little Joe" combination light, Fig. 1146.

Pole is adjustable to various lengths down to 5 inches.

WIRED READY FOR INSTALLATION

Length Overall Inches	Each	Diam. Pole Inches	Weight Ounces
20	\$7.50	5/16	10
24	7.75	3/8	11

Halyard Eyes

For Metal Flag Poles
 SPRING BRASS—
 CHROMIUM PLATED

For quick attachment of flag to pole. Adjustable to various diameters.

Each — \$2.25



Fig. 232

Spare Globes for Figs. 609-625 see Fig. 604.

Spare Globes for Figs. 658 and 687, see Fig. 248.

Spare Electric Sockets for all above see Fig. 747 No. 2.



2½ OR 3 INCH GLOBE, FIG. 250 OR 251
COMPLETE WITH FLAG POLE SOCKET AND
ELECTRIC CONNECTIONS IN POLE AND SOCKET
HOLLOW MAHOGANY POLE — VARNISHED



Improved POLE LIGHT ASSEMBLY



With vertical ribbed globe (illus-
trated) specify Fig. 531-A

Fig. 531

Insert pole in socket and electric connection is complete. No wires exposed, no springs to corrode. A real positive hook-up, unaffected by water or corrosion.

Pole may remain in socket at all times, no switch necessary. Female part of connector in base of pole has four holes, two for "on" position, two for "off" position. Male part of connector in flag pole socket has two prongs (no springs). To light, loosen thumb screw, lift pole, give half turn and reset. To disconnect, reverse operation.

Length Pole Inches	Chromium Plated Each	Diam. Base of Pole Inches	Weight Pounds
24	\$18.25	1 ¼	2
30	19.25	1 ¼	2 ½
36	20.25	1 ¼	2 ¾
48	21.25	1 ¼	3

- Spare clear globes Each \$1.90
- Spare electric bulb sockets Fig. 747, No. 2 .. Each .60
- Electric connectors only (male & female) ... per set 1.20
- Complete except F. P. socket, deduct Each 2.00
- With Red or Green globe, add Each .60
- Furnished with 2½ inch globe unless otherwise specified.

HIGH INTENSITY
COMPLETE WITH SOCKET AND ELECTRIC
CONNECTIONS IN POLE AND SOCKET
MAHOGANY POLE — CAST BRONZE SOCKET



Junior POLE LIGHT ASSEMBLY

Fig. 1145

Wired through hollow center of pole. Globe will take a 6 C. P. bulb, double contact. Base of pole is 1 inch.

Length Pole Inches	Chromium Plated Each	Weight Pounds
20	\$12.25	1
24	13.00	1 ⅛
30	13.75	1 ¼

- Complete except F. P. socket, deduct Each \$1.00
- Spare clear globes Fig. 604 Each 1.35
- Spare electric bulb sockets, Fig. 747, No. 2 ... Each .60
- Electric connectors only (male & female) per set 1.20

Battery POLE LIGHT CHROMIUM PLATED FLASHLIGHT CLEAR FRESNEL BALL GLOBE MAHOGANY POLE—VARNISHED



Fig. 710

Two standard flashlight cells in battery case will supply weeks of service in ordinary intermittent use. Complete with bulb and switch, no batteries.

Each	Length Overall Inches	Diam. Base Inches	Weight Ounces
\$5.00	20	1	8



"2 in 1"
Adjustable Flag POLE LIGHTS

HIGH INTENSITY
WITH 1½ INCH FRESNEL
BALL GLOBE. ALL BRASS
WITH STREAMLINE BASE.
COMPLETE AS ILLUSTRATED
— WITH BULB.

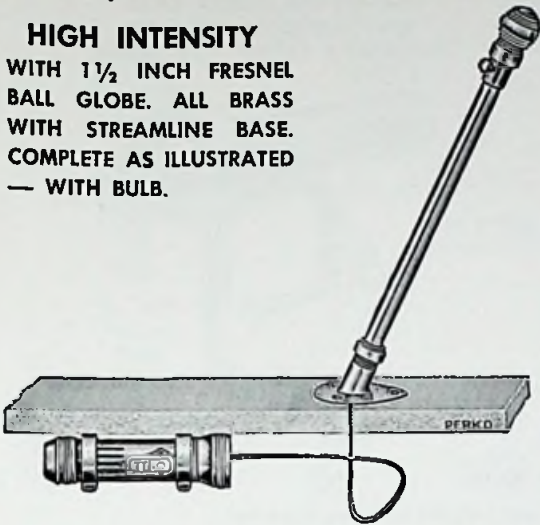


Fig. 1148

This is our popular Fig. 609 pole light supplied with a 2 cell flashlight case, mounting clamps and wire.

Batteries are not included.

Maximum Length Inches	Chromium Plated Each	Diameter Pole Inches	Weight Pounds
20	\$15.00	¾	1¾
24	15.50	¾	1⅞

Spare Clear Globes Fig. 604 \$1.35 Each
Spare Bulbs25 Each
Standard Package, 12*

WITH 1¾ INCH FRESNEL
GLOBE. BRASS POLE —
STREAMLINE ZAMAK BASE
COMPLETE AS ILLUSTRATED
WITH BULB.

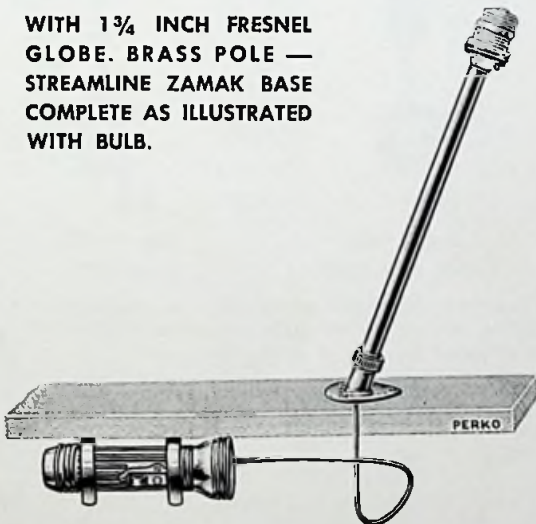


Fig. 1239

Our Fig. 1233 Pole Light with a 2 cell flashlight case, mounting clamps and wire.

Batteries not included.

Maximum Length Inches	Chromium Plated Each	Diameter Pole Inches	Weight Pounds
20	\$12.00	¾	1½
24	12.50	¾	1⅞

With vertical ribbed globe specify Fig. 1239-A.
Standard Package, 12*

NEW FLAG STAFF

ULTRA MODERN DYNAFORM TAPER DESIGN
ZAMAK DIE CAST—CHROMIUM PLATED



Fig. 1230

Neoprene Rubber "O" Ring in base for holding in Flag Pole socket.

Each	Length Overall Inches	Diameter Base Inches	Weight Ounces
\$3.00	14	¾	8

Standard Package, 12

FLAG STAFF
MAHOGANY

Turned from solid seasoned mahogany. Varnished, hand rubbed polished finish.

No.	Each	Length Overall Inches	Diam. Base Inches	Weight Ounces
1	\$1.80	14	½	1
2	2.15	14	¾	1½
3	2.35	18	¾	2½
4	2.55	18	1	4
5	4.10	24	1	5
6	5.25	30	1¼	8½
7	6.75	36	1¼	13
8	8.50	48	1¼	26

With brass ferrule, add \$.75 Each.

Standard Package, 12*



Fig. 496

FLAG STAFF

BRASS — CHROMIUM PLATED

Tubular Brass Pole with eyes for flag. Size No. 1 fits combination Bow Light Fig. 1146. Size No. 3 Figs. 1140, 1147, 1218, 1232, 1235, 1236, 1274 and 1275.

No.	Each	Length Overall Inches	Diam. Base Inches	Weight Ounces
1	\$3.20	14	½	2
2	3.40	14	¾	3
3	3.50	18	¾	6

Standard Package, 12*



Fig. 495



NEW INTERNATIONAL SHIELDS

For Use On Fig. 1276
"TRU-BEAM" POLE LIGHTS

WHITE PLASTIC



225° Bow Light Shield
Fig. 462



135° Stern Light Shield
Fig. 463

These shields used over the globe of Fig. 1276 Pole Light shown on page No. 11 will enable that light to be used on inland or International waters.

Each\$.90

"2 in 1" BATTERY LIGHT ASSEMBLY

CHROMIUM PLATED



Fig. 1149

No.	Complete Per Set	*Cable only	Length Socket Inches	Length Cable Inches	For Type Light
1	\$4.25	\$1.20	3/4	48	Comb. Bow
2	4.25	1.30	1 1/4	48	Stern Pole

*Cable only, complete with Plug and Socket.

Boat TRAILER LIGHT

CHROMIUM PLATED
2-CELL FLASHLIGHT CASE
RED SHATTER-PROOF LENS
ADJUSTABLE SCREW TYPE CLAMP

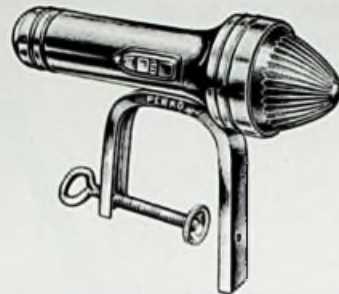


Fig. 143

Each	Length Overall Inches	Opening In Clamp Inches	Weight Ounces
\$3.95	8 3/4	2 3/8	13

Price includes bulb, no batteries.

"Sport Kit" LIGHTS

FLASHLIGHT BATTERY TYPE — 2 CELL
CHROMIUM PLATED



Fig. 1142
Comb. Bow Light



Fig. 1143
Stern Light

Designed for small craft such as rowboats, canoes, dinghys, etc., when an outboard motor is attached. Lights are required by law in such cases.

Height Overall Inches	Height Overall Inches	Diam. Stem Inches	Height Lens Inches	Size Globe Inches	Weight Pounds Each
Fig. 1142 13 3/4	Fig. 1143 20	3/8	Fig. 1142 2 1/8	Fig. 1143 1 1/2	1
Fig. 1142 Each \$10.00	Fig. 1143 Each \$8.25				Extra Bulbs Each \$.25

Clearance in clamp is 1 3/8 inches.
Price includes one bulb in each light, no batteries.

SPARE PARTS

Lenses for Fig. 1142	Each	\$1.70
Globe for Fig. 1143 with Ferrule	Each	2.00
Head with lenses for Fig. 1142	Each	4.25
Battery container only	Each	3.75
Clamp only	Each	4.25



POLE LIGHTS

BRASS—WITH CLEAR THREADED FRESNEL GLOBE
DOUBLE CONTACT ELECTRIC SOCKET—NOT WIRED



Fig. 484
Heavy
Duty
Type



Fig. 247



Fig. 248

See Note At
Bottom Of Page

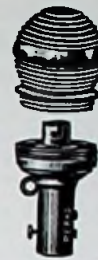


Fig. 491
Standard
Type



Fig. 600
High
Intensity
Type

Fig.	No.	Chromium Plated Each	Spare Globes Each	Diameter Globe Inches	Height Overall Inches	I.D. Neck Inches	Maximum Bulb C.P.	Weight Ounces
484	1	\$8.00	\$1.90	2½	5	¾	50	16
	2	8.40	1.90	3	5¾	¾	50	18
491	1	6.50	1.90	2½	5	¾	50	12
	2	6.90	1.90	3	5¾	¾	50	14
600		6.00	1.35	1½	4¼	¾	6	7

STERN LIGHTS

BRASS—WITH CLEAR THREADED FRESNEL GLOBE
DOUBLE CONTACT ELECTRIC SOCKET—NOT WIRED



Fig. 404
High
Intensity
Type



Fig. 422
Standard
Type



Fig. 506
Heavy
Duty
Type



Fig. 438
Standard
Streamline
Type



Fig. 421
Tru-Beam
Streamline
Type



Fig. 439
High Intensity
Streamline
Type

Fig.	No.	Polished Brass Each	Chromium Plated Each	Spare Globes Each	Diameter Globe Inches	Height Overall Inches	Size Base Inches	Maximum Bulb C.P.	Weight Ounces
404			\$6.50	\$1.35	1½	3½	2¾	6	7
422	1	\$6.25	7.00	1.90	2½	6	2¾	50	12
	2	6.55	7.40	1.90	3	6½	2¾	50	14
	3	7.75	8.75	1.90	3	12	2¾	50	20
506	1		9.50	1.90	2½	5½	2¾	50	18
	2		9.90	1.90	3	6	2¾	50	20
	3		11.25	1.90	3	12	2¾	50	26
438	1		7.50	1.90	2½	6	3¾ x 2¼	50	13
	2		7.90	1.90	3	6½	3¾ x 2¼	50	13
	3		9.25	1.90	2½	12	3¾ x 2¼	50	20
	4		9.65	1.90	3	12½	3¾ x 2¼	50	20
421			9.00	1.00	2¾	12	3¾ x 2¼	6	17
439	1		8.50	1.35	1½	6	3¾ x 2¼	6	11
	2		9.25	1.35	1½	12	3¾ x 2¼	6	18

NOTE: Spare Globes, see Figs. 250, 251 and 604, With Red, Green or Blue Globes, add \$.60 each.
Spare Globes, for Fig. 421, see Fig. 281, Clear only.

Figs. 422, 438, 484, 491 and 506 can be supplied with globe Fig. 247 or Fig. 248 as illustrated above in clear only. For Globe, Fig. 247, add letter "A" to Fig. No., i. e. 422-A. For Globe, Fig. 248, add letter "B" to Fig. No.

Standard Package, Entire Page, 12*



STERN LIGHTS CAST BRONZE



Equipped with 360 degree clear fresnel lens and double contact electric socket.

Any height desired can be secured by placing required length of 1 inch brass pipe at joint marked "A". These parts have standard 1 inch pipe thread.

Fig. 375

Height Overall Inches	Diam. Base Inches	Diam. Body Inches	Height Lens Inches	Weight Pounds
7	3½	3½	3¾	2¾
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Spare Lens Fig. 261 Each	Spare Socket Fig. 747 Each
\$14.95	\$16.25	\$18.50	\$2.50	\$.60

With red, green, blue or amber lens, add \$1.50 each.
With medium screw socket fig. 346 for 15 watt bulb, add \$1.90 each.

MAST LIGHTS CAST BRONZE



Equipped with 360 degree clear fresnel lens and double contact electric socket. Extra long neck.

Fig. 521

Height Overall Inches	Diam. Body Inches	Height Lens Inches	Inside Length Neck Inches	Inside Diam. Neck Inches	Weight Pounds
6¾	3½	3¾	2½	1¼	2
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Spare Lens Fig. 261 Each	Spare Socket Fig. 747 Each	
\$13.65	\$14.70	\$16.50	\$2.50	\$.60	

With red, green, blue or amber lens, add \$1.50 each.
With medium screw socket fig. 346 for 15 watt bulb, add \$1.90 each.

STERN LIGHTS CAST BRONZE WITH FIG. 106 THREADED GLOBE FOR BULB UP TO 60 WATTS



Equipped with clear fresnel globe and fig. 222 No. 1 medium screw electric socket.

Height Overall Inches	Diam. Base Inches	Size of Globe Inches	Weight Pounds
8¾	3¾	5x3½	3¾
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	
\$12.60	\$14.70	\$17.00	

Spare globes, \$3.60 each
Spare sockets, \$.90 each.

Fig. 112

With red, green, blue or amber globe, add \$1.75 each.
With double contact socket fig. 276, No. 3 add \$.95 each.

MAST LIGHTS CAST BRONZE WITH FIG. 106 THREADED GLOBE FOR BULB UP TO 60 WATTS



Equipped with clear fresnel globe and fig. 222 medium screw electric socket.

Height Overall Inches	Diam. Bottom Opening Inches	Inside Length Neck Inches	Size of Globe Inches	Weight Pounds
9	1¾	2½	5x3½	4
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each		
\$13.40	\$15.75	\$18.40		

Spare globes, \$3.60 each.

Spare sockets, \$.90 each.

Fig. 113

With red, green, blue or amber globe, add \$1.75 each.
With double contact socket fig. 276, No. 3, add \$.95 each.

MEAL AND ABSENT LIGHT CAST BRONZE — WATERTIGHT



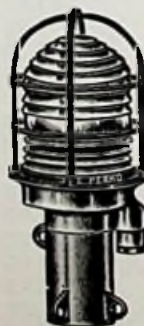
Fig. 329 with Double Contact Socket
Fig. 330 with Medium Screw Socket

For mounting on yardarm. Supplied with two fresnel globes, one blue, the other clear, Fig. 251.

Fig.	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Size Base Inches	Diam. Globe Inches	Wt. Lbs.
329	\$17.75	\$21.00	9	3¾x1¾	3	2
330	19.75	23.00	10	3¾x1¾	3	2½

Bulbs for Fig. 329, see Fig. 337 all sizes listed.
Bulbs for Fig. 330, see Fig. 8 all sizes listed.

MAST LIGHT CAST BRONZE—WITH THREADED GLOBE GUARD INTEGRAL CABLE ENTRANCE WITH TERMINAL TUBE



With Fig. 106 Clear Threaded Globe for bulb up to 60 watts, medium screw socket.

Height Overall Inches	Diam. Bottom Opening Inches	Inside Length Neck Inches	Size of Globe Inches	Weight Pounds
10	1¾	2½	5x3½	5½
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each		
\$21.00	\$24.60	\$28.30		

Spare clear globes, \$3.60 each.

Spare guards, \$5.50 each.

Spare sockets, \$.90 each.

Fig. 83

With red, green, blue or amber globe add \$1.75 each.
With double contact socket fig. 276, No. 3, add \$.95 each.



POLE OR MAST LIGHT

HEAVY BRASS
THREADED FRESNEL GLOBE
DOUBLE CONTACT SOCKET —
FOR 1/2 INCH PIPE

Fig. 362

With 2 1/2 or 3 inch globe Fig. 250 or 251, will accommodate up to 50 C. P. bulb.

No.	Bright Brass Each	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Wt. Lbs.
1	\$6.30	\$7.20	\$8.00	2 1/2	3 1/2	2 1/8	1
2	6.30	7.20	8.00	3	4	2 1/8	1 1/2

With Red, Green or Blue Globe, Add \$.60 each.



Fig. 103

MAST AND YARDARM LIGHTS



Fig. 104

CAST BRONZE — CLEAR FRESNEL GLOBE
MEDIUM SCREW SOCKET — FOR 15 WATT BULB

Fig. 103 threaded for 1/2 inch pipe.

Fig. 104 for mounting on Truck or Yardarm.

Will accommodate 15 watt A-17 bulb.

Fig.	Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Height Overall Inches	Diam. Globe Inches	Wt. Lbs.
103	\$9.20	\$11.25	\$13.40	6	3	2
104	10.25	12.90	14.95	5 1/2	3	2

With red or green globe, add \$1.10 each.

Spare clear globes fig. 249, \$2.65 each.

Spare sockets fig. 222, No. 1, \$.90 each.

With double contact socket fig. 276, add \$.95 each.



Fig. 488

MAST LIGHTS

BRASS BASE
CLEAR FRESNEL GLOBE
MEDIUM SCREW SOCKET



Fig. 489

Fig. 488 threaded 1/2 inch I. P. S.

Fig. 489 drilled for mounting on mast truck.

Burnished Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Base Inches	Size Globe Inches	Opening in Globe Inches	Wt. Lbs.
\$7.35	\$8.25	6	2 3/8	5 1/2 x 2 3/8	1 1/8	1

Chromium plated finish, add \$1.00 to polished price.

Spare clear globes fig. 77, \$2.40 each.

With red, green or blue globe, add \$1.10 each.

Special porcelain electric sockets only fig. 222, No. 2. \$1.25 each.

Bulbs for above, 120 volt 10 watt, clear \$.50 each.

NEW POLE or MAST LIGHT
HEAVY BRASS BASE—CHROMIUM PLATED
I.D. OF NECK FOR 1/4" DIAMETER POLE OR MAST
THREADED FRESNEL GLOBE
BAYONET DOUBLE CONTACT SOCKET



Fig. 428

Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Wt. Ounces
\$6.50	2 1/2	4 1/4	1 1/4	7

Spare globes, see Fig. 248



Fig. 136

POLE OR MAST LIGHT
CAST BRONZE
THREADED FRESNEL GLOBE
BAYONET DOUBLE CONTACT
SOCKET FOR 1/2 INCH DIAMETER
MAST

No.	Burnished Brass Each	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Wt. Lbs.
1	\$5.60	\$6.65	\$7.10	2 1/2	4	1 1/2	1

Spare globes, see fig. 250.

With Red, Green or Blue Globe, Add \$.60 each.



Fig. 145 with Guard

MAST LIGHTS



Fig. 309 without Guard

CAST BRONZE — WITH MEDIUM SCREW SOCKET
FIG. 106 CLEAR THREADED GLOBE — 60 WATT

Fig.	Height Overall Inches	Size Globe Inches	Opening in Globe Inches	Tapped for Pipe Size Inches	Wt. Lbs.
145	7 3/4	5 x 3 1/2	2 3/4	1/2	3 1/2
309	6 1/2	5 x 3 1/2	2 3/4	1/2	2 1/2

Fig.	Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Spare Clear Globes Each
145	\$15.20	\$17.30	\$20.45	\$3.60
309	10.25	12.00	14.00	3.60

With red, green, blue or amber globe, add \$1.35 each.

Spare medium screw sockets fig. 222 No. 1. \$.90 each.

With double contact socket fig. 276 No. 3, add \$.95 each.

Spare threaded brass guards, \$5.50 each.



Perko "International" NAVIGATION LIGHTS

ZAMAK DIE CASTINGS — CHROMIUM PLATED — WATERTIGHT

Shielded to U.S.C.G. Visibility Requirements, Revised Rules of Motorboat Act.

Effective June 4, 1956 — Public Law 552

Legal For All Types of Boats — Under 65 Feet in Length and Under 40 Gross Tons.

For Use on Inland and International Waters.

ELECTRIC—DOUBLE CONTACT BAYONET TYPE SOCKETS

NECK HAS 1/2 INCH FEMALE PIPE THREAD FOR MOUNTING ON PIPE

Base Drilled for Wood Screws for Mounting Directly to Deck, Cabin Top and Cabin Sides.

Side Lights

10 POINTS — 112 1/2 DEGREES

VISIBILITY — 2 MILES

COLORED LENSES — 1 RED AND 1 GREEN



Fig. 1278

Fig.	Per Pair	Each	Height Lens Inches	Length Overall Inches	Width Overall Inches
1278	\$17.00		2 1/8	4 7/8	2 5/8
1279		\$8.00	2 1/8		
1280		8.00	2 1/8		

Bow or Masthead Lights

20 POINTS — 225 DEGREES
VISIBILITY 3 MILES — CLEAR LENS



Fig. 1279

Stern Lights

12 POINTS — 135 DEGREES
VISIBILITY 3 MILES — CLEAR LENS

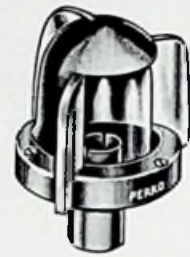


Fig. 1280

Fig.	Per Pair	Each	Height Lens Inches	Length Overall Inches	Width Overall Inches	Height Light Inches	Diam. Flange Inches	Diameter Neck Inches	Length Neck Inches	Weight Pounds	Weight Per Pair Pounds
1278	\$17.00		2 1/8	4 7/8	2 5/8			7/8	1 3/16		2 1/4
1279		\$8.00	2 1/8			2 1/2	2 5/8	7/8	1 3/16	1	
1280		8.00	2 1/8			2 1/2	2 5/8	7/8	1 3/16	1	

Anchor or Range Lights

32 POINTS — 360 DEGREES

VISIBILITY 3 MILES — CLEAR LENS



Fig. 1281

\$7.25 Each

Height Lens Inches	Height Light Inches	Diam. Flange Inches	Diameter Neck Inches	Length Neck Inches	Weight Pounds
2 1/4	2 3/4	2 3/8	3/8	1 3/8	3/4

ADJUSTABLE LIGHTS

BOW LIGHT

STERN LIGHT



Fig. 1282



Fig. 1283

When boats of classes A or 1 operate in international waters, the rules require a 225 degree 20 point clear bow light mounted 36 inches higher than the combination red and green light forward. Also a 135 degree 12 point clear stern light aft. Height is 36 inches but can be supplied in special heights to order.

Zamak Chromium Plated Each	Bronze Chromium Plated Each	Height Lens Inches	Dimensions Base Inches	Bronze Weight Pounds
\$13.00	\$20.00	2 1/8	3 3/8 x 2 1/4	2 3/4

Spare Parts See Page 21

Standard Package, Entire Page 12*



Perko "International" NAVIGATION LIGHTS

CAST BRONZE — BURNISHED OR CHROMIUM PLATED — WATERTIGHT

Shielded to U.S.C.G. Visibility Requirements, Revised Rules of Motorboat Act.

Effective June 4, 1956 — Public Law 552

Legal For All Types of Boats—Under 65 Feet in Length and Under 40 Gross Tons.

For Use on Inland and International Waters.

ELECTRIC—DOUBLE CONTACT BAYONET TYPE SOCKETS

Neck Has 1/2" Female Pipe Thread for Mounting on Pipe

Base Drilled for Wood Screws for Mounting Directly to Deck, Cabin Top and Cabin Sides.

Side Lights

10 POINTS — 112½ DEGREES

VISIBILITY—2 MILES

COLOR LENSES — 1 RED AND 1 GREEN

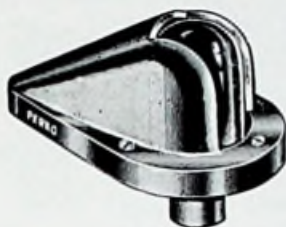


Fig. 910-A

Burnished
Bronze
Per Pair
\$17.00

Chromium
Plated
Per Pair
\$23.00

Height Lens Inches	Length Overall Inches	Width Overall Inches	Diameter Neck Inches	Length Neck Inches	Weight Per Pair Pounds
2 1/8	5	2 3/4	3/8	1 1/8	3 1/4

For mounting on side of deck house.

Side Lights

10 POINTS — 112½ DEGREES

VISIBILITY—2 MILES

COLOR LENSES — 1 RED AND 1 GREEN



Fig. 910-B

Burnished
Bronze
Per Pair
\$17.00

Chromium
Plated
Per Pair
\$25.50

Height Lens Inches	Height Light Inches	Diameter Neck Inches	Diameter Flange Inches	Length Neck Inches	Weight Per Pair Pounds
2 1/8	2 1/2	3/8	2 3/8	1 1/8	2 1/2

For mounting on top of deck house.

Bow or Masthead Lights

20 POINTS — 225 DEGREES

VISIBILITY 3 MILES — CLEAR LENS

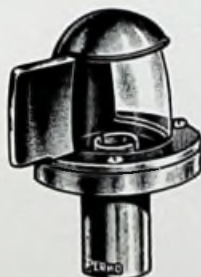


Fig. 911-A

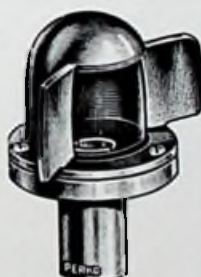


Fig. 912-A

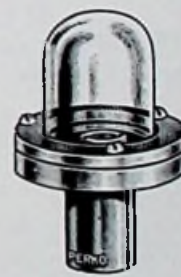


Fig. 913-A

Fig.	Burnished Bronze Each	Chromium Plated Each	Height Lens Inches	Height Light Inches	Diameter Neck Inches	Diameter Flange Inches	Length Neck Inches	Weight Each Pounds
911-A	\$8.25	\$12.50	2 1/8	2 1/2	3/8	2 5/8	1 3/8	1 1/8
912-A	8.25	12.50	2 1/8	2 1/2	3/8	2 5/8	1 3/8	1 1/8
913-A	7.00	8.50	2 1/8	2 3/8	3/8	2 5/8	1 3/8	7/8

Spare Lenses, Clear \$1.00 each Colored, Red or Green \$1.20 each

Spare D.C. Sockets, Fig 747 No. 2 .60 each

Standard Package, Entire Page 12*



Perko "International" NAVIGATION LIGHTS

SHIELDED TO U.S.C.G. VISIBILITY REQUIREMENTS, REVISED RULES OF MOTOR BOAT ACT
EFFECTIVE JUNE 4, 1956—PUBLIC LAW 552

LEGAL FOR ALL TYPES OF BOATS—UNDER 65 FEET IN LENGTH AND UNDER 40 GROSS TON.

FOR USE ON INLAND AND INTERNATIONAL WATERS.

NEW STREAMLINE WATERTIGHT TYPE

(Patent Pending)

ZAMAK DIE CASTINGS — CHROMIUM PLATED

WATERTIGHT FRESNEL GLOBE WITH PACKING GLAND AT SOCKET AND CABLE ENTRANCE

ELECTRIC — DOUBLE CONTACT BAYONET TYPE SOCKET

SIDE LIGHTS

10 Points—112½ Degrees
Minimum Visibility—2 Miles
Colored Lenses
1 Red and 1 Green



Fig. 1285

Chromium Plated Per Pair	Length Overall Inches	Height Overall Inches	Weight Per Pair Pounds
\$22.50	7⅞	3	3

BOW LIGHT

20 Points—225 Degrees
Minimum Visibility—3 Miles
Clear Lens

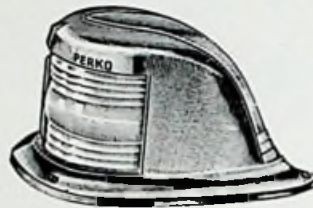


Fig. 1286

Chromium Plated Each	Length Overall Inches	Width Overall Inches	Height Overall Inches	Weight Pounds
\$12.75	6¼	3⅞	3½	1¼

WATERTIGHT FRESNEL GLOBE



Fig. 258

Clear Each	Red or Green Each	Height Inches	Width Inches	Weight Ounces
\$2.50	\$3.00	2⅞	2¼	6

Spare D.C. Socket See Fig. 747 No. 2

INTERNATIONAL LIGHTS

WROUGHT BRASS — ELECTRIC ONLY
DOUBLE CONTACT ELECTRIC SOCKET

CLEAR FRESNEL LENSES—VISIBILITY 3 MILES

BOW LIGHT

20 Points—225 Degrees



Fig. 98

STERN LIGHT

12 Points—135 Degrees



Fig. 99

Fig.	Polished Brass Each	Chromium Plated Each	Height Lens Inches	Height Overall Inches	Weight Pounds
98	\$11.00	\$13.75	4¼	5¼	1½
99	10.00	12.75	4¼	5¼	1½

With medium screw socket—add \$.75 each.

INTERNATIONAL LIGHTS

WROUGHT BRASS — OIL ONLY
CLEAR FRESNEL LENSES—VISIBILITY 3 MILES

BOW LIGHT

20 Points—225 Degrees



Fig. 176

Fig.	Polished Brass Each	Chromium Plated Each	Height Lens Inches	Height Overall Inches	Weight Pounds
176	\$12.50	\$15.50	4¼	10½	3½
97	11.50	14.50	4¼	10½	3

STERN LIGHT

12 Points—135 Degrees



Fig. 97

Oil and double contact electric—add \$1.75 each.
Oil and medium screw electric—add \$2.75 each.



Streamline SIDE LIGHTS
CAST BRONZE
CLASSES 2 AND 3 — ELECTRIC



Fig. 563

With our popular rebulbing feature which makes it unnecessary to remove light from the boat to change bulb.

Furnished in pairs, with red and green fresnel lenses and double contact electric sockets.

Class	Height Inches	Length Inches	Height Lens Inches	Weight Per Pair Pounds
2	4 $\frac{3}{4}$	10 $\frac{1}{8}$	4 $\frac{1}{4}$	5 $\frac{1}{2}$
3	6	10 $\frac{1}{2}$	5 $\frac{1}{8}$	7 $\frac{1}{2}$

Class	Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
2	\$28.00	\$33.50	\$3.45	\$.60
3	41.00	47.25	4.35	.60

Spare Lenses, see Fig. 259

Spare D.C. Sockets, see Fig. 747, No. 1.

Streamline BOW LIGHTS
CAST BRONZE
CLASSES 2 AND 3 — ELECTRIC

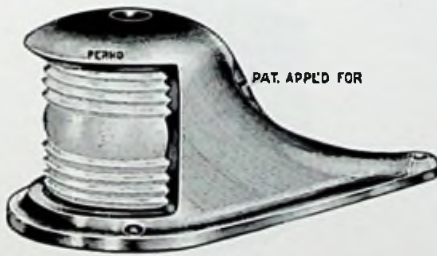


Fig. 561

Furnished with clear fresnel lens and double contact electric socket.

Class	Height Inches	Size Base Inches	Height Lens Inches	Flagpole Socket Inches	Weight Pounds
2	5 $\frac{1}{4}$	5 $\frac{3}{4}$ x11 $\frac{1}{2}$	4 $\frac{1}{4}$	1	7
3	6 $\frac{3}{8}$	6 $\frac{3}{8}$ x13	5 $\frac{1}{8}$	1	8 $\frac{3}{4}$

Class	Polished Bronze Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
2	\$24.75	\$30.50	\$3.45	.90
3	35.25	41.50	4.35	\$.90

Spare Lenses, see Fig. 260.

Spare D.C. Sockets, see Fig. 747, No. 7.

SPARE REBULBING FEATURES FOR ALL ABOVE LIGHTS, POLISHED \$2.50, CHROMIUM PLATED \$3.00 EACH. LIGHTS ON THIS PAGE CANNOT BE SUPPLIED WITH MEDIUM SCREW SOCKET.

Standard Package, Entire Page, 12*

Streamline SIDE LIGHTS
WROUGHT BRASS
CLASS 2 — ELECTRIC



Fig. 1138

Design is gracefully streamlined and quality is up to our usual high standard.

Contains our patented swivel type waterproof rebulbing feature, no screws to remove.

Furnished in pairs, with red and green fresnel lenses, and double contact electric sockets.

Extreme Height Inches	Extreme Length Inches	Height Lens Inches	Weight Per Pair Pounds
6 $\frac{3}{8}$	9 $\frac{5}{8}$	4 $\frac{1}{4}$	3 $\frac{1}{4}$

Bright Finish Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
\$22.75	\$25.50	\$31.00	\$3.45	\$.60

Spare Lenses, see Fig. 259.

Spare D.C. Sockets, see Fig. 747, No. 1.

Streamline BOW LIGHTS
WROUGHT BRASS
CLASS 2 — ELECTRIC

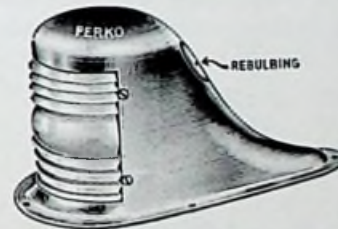


Fig. 1139

A very attractive running mate for Fig. 1138 above. Containing our swivel type waterproof rebulbing feature, no screws to remove.

Furnished with clear fresnel lens and double contact electric socket.

A flag pole socket in top if required.

Height Inches	Size Base Inches	Height Lens Inches	Flagpole Socket Inches	Weight Pounds
5 $\frac{1}{8}$	5 $\frac{3}{8}$ x9 $\frac{1}{2}$	4 $\frac{1}{4}$	1	2

Bright Finish Each	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
\$16.25	\$17.75	\$20.00	\$3.45	\$.90

Spare Lenses, see Fig. 260.

Spare D.C. Sockets, see Fig. 747, No. 7.

With Flag Pole Socket add \$1.25 each.

Furnished without Flag Pole Socket unless otherwise specified.



Royal COMBINATION BOW LIGHTS

ELECTRIC ONLY—DOUBLE CONTACT
WITH RED AND GREEN LENSES



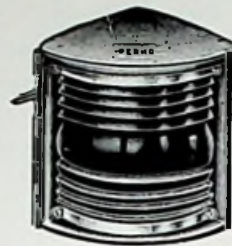
Fig. 89

Galv. Each	Polished Brass Each	Chromium Plated Each	Height Inches	Width Inches	Height Lens Inches	Weight Pounds
\$8.50	\$10.25	\$12.25	3 3/4	4 1/4	3 3/8	1 1/4

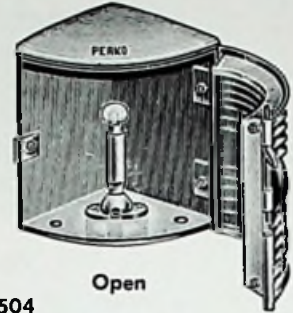
Spare Lenses, see Fig. 259, Cl. 1.

De-Lite SIDE LIGHTS

CAST BRONZE—WITH FRONT DOORS
RED AND GREEN LENSES
ELECTRIC ONLY—DOUBLE CONTACT



Closed



Open

Fig. 504

A quick change of bulb or lens is simple. Lenses are fastened in doors by brass straps and machine screws. Doors have positive latch which cannot work loose due to vibration or wind.

Class	Height Inches	Angle Inches	Height Lens Inches	Weight Per Pair Pounds
2	5 1/2	3 1/2 x 3 1/4	4 1/4	6 1/2
3	6	4 x 4	5 3/8	8

Class	Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
2	\$29.00	\$34.00	\$3.45	\$.95
3	34.00	40.00	4.35	.95

With medium screw sockets, add \$3.50 per pair.

Spare D.C. Sockets, see Fig. 276, No. 0.

Spare Lenses, see Fig. 259.

With clear lens, Class 2 only, add \$2.00 per pair.

Royal SIDE LIGHTS

ELECTRIC ONLY—DOUBLE CONTACT
WITH RED AND GREEN LENSES



Fig. 91

Class	Galv. Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Height Inches	Height Lens Inches	Weight Per Pair Pounds
1	\$12.50	\$16.30	\$20.50	4 1/4	3 3/8	1 3/4
2	13.20	16.75	21.00	5	4 1/4	2
3	15.25	19.00	23.00	6	5 3/8	3

Spare Lenses, see Fig. 259.

De-Lite BOW LIGHTS

CAST BRONZE—WITH FRONT DOORS
CLEAR LENS
ELECTRIC ONLY—DOUBLE CONTACT



Fig. 505

Same construction as Fig. 504 above.

Class	Height Inches	Width Inches	Height Lens Inches	Weight Pounds
2	5 1/2	5 1/2	4 1/4	3 3/4
3	6 1/2	6	5 3/8	4 1/4

Class	Polished Bronze Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
2	\$14.50	\$17.00	\$3.45	\$.95
3	17.00	20.00	4.35	.95

With Medium screw sockets, add \$1.75 Each.

Spare D.C. Sockets, see Fig. 276, No. 0.

Spare Lenses, see Fig. 260.

With Colored Lens, Class 2, add \$1.75 Each.

With Colored Lens, Class 3, add \$2.50 Each.

Colored Lenses are Red, Green or Blue.

Amber available in Class 2 only.

Royal BOW LIGHTS

ELECTRIC ONLY—DOUBLE CONTACT
WITH CLEAR LENS



Fig. 92

Class	Galv. Each	Polished Brass Each	Chromium Plated Each	Height Inches	Height Lens Inches	Weight Pounds
1	\$6.25	\$8.15	\$10.25	4 1/4	3 3/8	1
2	6.60	8.40	10.50	5	4 1/4	1 1/2
3	7.60	9.50	11.50	6	5 3/8	2

Spare Lenses, see Fig. 260.

All above lights with medium screw adapter, Fig. 153, add \$1.00 Each.



"Perko" De-Lite ANCHOR LIGHTS

TURRET TOP—REMOVABLE GUARDS
FOR CLASSES 1, 2 AND 3 BOATS



Fig. 0-2 Junior
Fig. 0-6 Senior

Fig.	Height Less Ring Inches	Diam. Base Inches	Height Lens Inches	Weight Pounds
0-2	8 $\frac{3}{8}$	4 $\frac{1}{2}$	3 $\frac{3}{8}$	2
0-6	11 $\frac{3}{4}$	5 $\frac{3}{8}$	4 $\frac{1}{4}$	3

OIL OR ELECTRIC ONLY

Fig.	Galv. Each	Polished Brass Each	Chromium Plated Each
0-2	\$10.00	\$12.50	\$15.50
0-6	12.00	14.50	17.50

Comb. Oil and Electric, add \$1.75 each.

FLAT TOP—REMOVABLE GUARDS



Fig. 11 Junior
Fig. 12 Senior

Fig.	Height Less Ring Inches	Diam. Base Inches	Height Lens Inches	Weight Pounds
11	6	4 $\frac{1}{2}$	3 $\frac{3}{8}$	1 $\frac{1}{2}$
12	9	5 $\frac{3}{8}$	4 $\frac{1}{4}$	2 $\frac{1}{2}$

ELECTRIC ONLY—DOUBLE CONTACT SOCKETS

Fig.	Galv. Each	Polished Brass Each	Chromium Plated Each
11	\$10.00	\$12.50	\$15.50
12	12.00	14.50	17.50

With Red, Green, Blue or Amber Lens.

Figs. 0-2 and 11, add \$2.25 each.

Figs. 0-6 and 12, add \$2.60 each.

All above lights with Medium Screw Electric Sockets, add \$1.00 each.

SPARE PARTS

	Each
Lenses, fig. 261, Clear, for figs. 0-2 and 11	\$2.50
Lenses, fig. 261, Clear, for figs. 0-6 and 12	3.35
Oil Founts, fig. 287, Brass, for fig. 0-2	2.30
Oil Founts, fig. 286, Brass, for fig. 0-6	2.30
Oil and Electric Founts, fig. 735, for fig. 0-2	5.00
Oil and Electric Founts, fig. 736, for fig. 0-6	5.00
Oil Burners, fig. 246, No. 0, Brass, for fig. 0-2	.42
Oil Burners, fig. 246, No. 1, Brass, for fig. 0-6	.47

10 Day Oil ANCHOR LIGHT

360 DEGREE CLEAR FRESNEL LENS
LATCHED SWIVEL FOUNT



Fig. 596



Fig. 596A

At least 10 days of continuous light on one filling of good grade kerosene. Wick is non-carbonizing type.

Polished Brass Each	Height Lens Inches	Height Overall Inches	Diam. Fount Inches	Capacity Fount Pints	Weight Pounds
\$28.50	4 $\frac{1}{4}$	14	7	3 $\frac{1}{2}$	4 $\frac{1}{2}$

With red, green, blue or amber lens, add \$2.60 each.

Fig. 596-A Fount complete, \$14.25 each.

Light only, less Fount, \$17.00 each.

Spare burners, wicks and chimneys, see figs. 245 and 272.

Spare lenses, see fig. 261.

21 Day Battery ANCHOR LIGHT

ALL BRASS — WITH SWITCH AND BULB
SWITCH ENCLOSED IN WATERTIGHT COVER



Fig. 48

500 hours of continuous light on one battery.

Uses ordinary 1 $\frac{1}{2}$ volt dry cell such as Eveready No. 6 or equal. Bulb is Mazda No. 1800.

Polished Brass Each	Chromium Plated Each	Height Inches	Diam. Base Inches
\$16.50	\$19.25	10 $\frac{1}{2}$	3

With battery, add \$1.50 each.

With red, green or blue globe, add \$.60 each.

Spare globes, see Fig. 250.

Spare batteries, \$1.50 each.

Spare bulbs, \$.40 each.



"Perko" De-Lite Combination BOW LIGHTS

TURRET TOP—FRONT DOOR
FOR CLASS ONE BOATS—16 FEET AND OVER AND LESS THAN 26 FEET IN LENGTH

OIL AND ELECTRIC, DOUBLE CONTACT

Green Lens for Starboard, Red Lens for Port
Height, less ring, 9 $\frac{3}{8}$ inches
Measurements of base, 5 inches x 5 $\frac{1}{2}$ inches
Height of lens, 3 $\frac{3}{8}$ inches
Weight, 3 $\frac{3}{8}$ pounds

Fig. 0-1

Galvanized Each	Polished Brass Each	Chromium Plated Each
\$14.25	\$16.75	\$21.00



(Closed)



(Opened)

De-Lite Combination BOW LIGHTS

FLAT TOP—FRONT DOOR

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

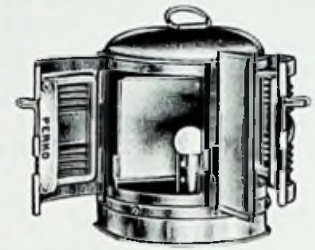
Height, less ring, 6 $\frac{1}{2}$ inches
Measurements of base, 5 inches x 5 $\frac{1}{2}$ inches
Height of lens, 3 $\frac{3}{8}$ inches
Weight, 3 pounds

Fig. 0-10

Galvanized Each	Polished Brass Each	Chromium Plated Each
\$14.25	\$16.75	\$21.00



(Closed)



(Opened)

Combination BOW LIGHTS

TURRET TOP OR FLAT TOP
BOTTOM OPENING
WITH RED AND GREEN LENSES

TURRET TOP

Height less Ring, 9 inches.
Meas. of Base, 4 $\frac{3}{4}$ x4 $\frac{1}{2}$ inches.
Height of Lenses, 3 $\frac{3}{8}$ inches.
Weight, 2 $\frac{5}{8}$ pounds.

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$11.00	\$13.75
Oil and Electric	12.00	14.75



Fig. 1

FLAT TOP

Height less Ring, 6 $\frac{1}{4}$ inches.
Meas. of Base, 4 $\frac{3}{4}$ x4 $\frac{1}{2}$ inches.
Height of Lenses, 3 $\frac{3}{8}$ inches.
Weight, 2 pounds.

	Galvanized Each	Polished Brass Each
Electric Only	\$11.00	\$13.75
Chromium plated finish, add \$3.75 each to Polished Brass price.		



Fig. 3

Electric Socket is Double Contact.

Sail Boat SIDE LIGHTS

SMALL SIZE — OIL BURNING

Designed for Sail Boats where small oil burning side lights are desirable.

Height Lens Inches	Extreme Height Inches	Diam. of Base Inches	Weight Per Pair Pounds
3 $\frac{3}{8}$	9	4 $\frac{1}{4}$	4

	Polished Brass Per Pair	Chromium Plated Per Pair
Galvanized Per Pair	\$22.00	\$29.50
\$17.50		



Fig. 69

Oil and Electric, with Fig. 735, Fount, add \$3.50 per pair.

Electric socket is bayonet double contact.

Spare Lenses, see Fig. 259, Class 1.

Spare Founts, see Figs. 287 or 735.

Spare Burners and Wicks, see Figs. 246 and 302 No. 0.

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.00 EACH

SPARE PARTS

Lenses, Fig 259, Class 1 Combination	EACH	\$2.50	Oil Burners, Fig. 246, No. 0, Brass	EACH	\$.42
Oil Founts, Fig. 582, Brass, for Fig. 01		2.30	Oil Wicks, Fig. 302, No. 0		.07
Oil Founts, Fig. 733, Brass, for Fig. 1		2.30	Electric Sockets, Double Contact, Fig. 276, No. 2		.95
Oil and Electric Founts, Fig. 733, Brass, for Fig. 1		5.00	Electric Sockets, Medium Screw, Fig. 346, No. 1		.70



"Perko" De-Lite SIDE LIGHTS

TURRET TOP

FOR CLASS 2 BOATS—26 FEET OR OVER AND LESS THAN 40 FEET IN LENGTH
OIL AND ELECTRIC, DOUBLE CONTACT

Furnished in pairs—one green light for Starboard and one red light for Port



(Closed)

Height, less ring, 10½ inches
Measurements of base, 5¼ inches x 5¼ inches
Height of lens, 4¼ inches
Weight, per pair, 6¼ pounds

Fig. 0-4

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$24.50	\$30.00	\$38.50



(Opened)

"Perko" De-Lite BOW LIGHTS

TURRET TOP

CLASS 2—OIL AND ELECTRIC, DOUBLE CONTACT

Height, less ring, 10½ inches
Height of lens, 4¼ inches
Measurements of base, 5 inches x 5½ inches
Weight, each 3 pounds

Fig. 0-5

	Galvanized Each	Polished Brass Each	Chromium Plated Each
With Clear Lens	\$12.25	\$15.00	\$19.25
With Red, Green, Amber or Blue Lens	14.75	17.50	21.75



(Closed)



(Opened)

"Perko" De-Lite SIDE LIGHTS

FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7¼ inches
Measurements of base, 5⅞ inches x 5⅞ inches
Height of lens, 4¼ inches
Weight, per pair, 5½ pounds

Fig. 0-40

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$24.50	\$30.00	\$38.50



(Closed)



(Opened)

"Perko" De-Lite BOW LIGHTS

FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7¾ inches
Measurements of base, 5 inches x 5½ inches
Height of lens, 4¼ inches
Weight, each, 2¾ pounds

Fig. 0-50

	Galvanized Each	Polished Brass Each	Chromium Plated Each
With Clear Lens	\$12.25	\$15.00	\$19.25
With Red, Green, Amber or Blue Lens	14.75	17.50	21.75



(Closed)



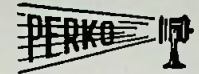
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ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.00 EACH

SPARE PARTS

Lenses, fig. 259, Class 2, for figs. 0-4 and 0-40	Each	\$3.45
Lenses, fig. 260, Class 2, for figs. 0-5 and 0-50	Each	3.45
Oil Founts, fig. 582, Brass, for figs. 0-4 and 0-5	Each	2.30
Oil Burners, fig. 246, No. 1, Brass for figs. 0-4 and 0-5	Each	.47
Oil Wicks, fig. 302, No. 1	Each	.08
Electric Sockets, Double Contact, fig. 276, No. 2	Each	.95
Electric Sockets, Medium Screw, fig. 346, No. 1	Each	.70

Standard Package, Entire Page, 12*



“Perko” De-Lite SIDE LIGHTS

TURRET TOP

FOR CLASS 3 BOATS—40 FEET OR OVER AND NOT MORE THAN 65 FEET IN LENGTH
OIL AND ELECTRIC, DOUBLE CONTACT

Height of lens, 5 $\frac{3}{8}$ inches
Height, less ring, 12 $\frac{1}{4}$ inches
Measurements of base, 5 $\frac{3}{8}$ inches x 5 $\frac{3}{8}$ inches
Weight, per pair, 8 pounds

Fig. 0-8

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$28.50	\$34.50	\$44.00



(Closed)



(Opened)

“Perko” De-Lite BOW LIGHTS

TURRET TOP

CLASS 3—OIL AND ELECTRIC, DOUBLE CONTACT

Height of lens, 5 $\frac{3}{8}$ inches
Height, less ring, 12 $\frac{1}{4}$ inches
Measurements of base, 5 $\frac{1}{2}$ inches x 6 $\frac{1}{8}$ inches
Weight, each, 4 pounds

Fig. 0-9

	Galvanized Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$14.25	\$17.25	\$22.00
With Red, Green or Blue Lens	17.25	20.25	25.00



(Closed)



(Opened)

“Perko” De-Lite SIDE LIGHTS

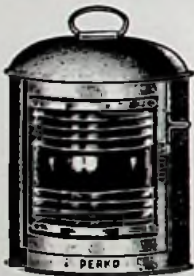
FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height of lens, 5 $\frac{3}{8}$ inches
Height, less ring, 8 $\frac{1}{2}$ inches
Measurements of base, 5 $\frac{3}{8}$ inches x 5 $\frac{3}{8}$ inches
Weight, per pair, 7 pounds

Fig. 0-80

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$28.50	\$34.50	\$44.00



(Closed)



(Opened)

“Perko” De-Lite BOW LIGHTS

FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height of lens, 5 $\frac{3}{8}$ inches
Height, less ring, 8 $\frac{1}{2}$ inches
Measurements of base, 5 $\frac{1}{2}$ inches x 6 $\frac{1}{8}$ inches
Weight, each, 4 pounds

Fig. 0-90

	Galvanized Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$14.25	\$17.25	\$22.00
With Red, Green or Blue Lens	17.25	20.25	25.00



(Closed)



(Opened)

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.00 EACH

SPARE PARTS

Lenses, fig. 259, Class 3, for figs. 0-8 and 0-80	Each	\$4.35
Lenses, fig. 260, Class 3, for figs. 0-9 and 0-90	Each	4.35
Oil Founts, fig. 582, Brass, for figs. 0-8 and 0-9		2.30
Oil Burners, fig. 246, No. 1, Brass, for figs. 0-8 and 0-9		.47
Oil Wicks, fig. 302, No. 1		.08
Electric Sockets, Double Contact, fig. 276, No. 3		.95
Electric Sockets, Medium Screw, fig. 346, No. 1		.70



Class 2 SIDE LIGHTS

RED AND GREEN LENSES
BOTTOM OPENING—SPRING FOUNT



Height of Lenses, 4¼ inches.
Extreme Height, 10½ inches.
Size of Base, 4¼x5½ inches.
Weight, per pair, 5½ lbs.

	Galvanized Per Pair	Polished Brass Per Pair
Oil or Elec. only	\$19.50	\$23.00
Oil and Electric	23.00	26.50

Chromium plated finish, add \$7.00 per pair to Polished Brass price.

Fig. 17

Class 2 BOW LIGHTS

CLEAR LENS
BOTTOM OPENING—SPRING FOUNT



Height of Lens, 4¼ inches.
Extreme Height, 10½ inches.
Size of Base, 4½x5 inches.
Weight, each, 3 lbs.

	Galvanized Each	Polished Brass Each
Oil or Elec. only	\$9.75	\$11.50
Oil and Electric	11.50	13.25

Chromium plated finish, add \$3.50 each to Polished Brass price.

With Red, Green, Amber or Blue Lens add \$2.50 each.

Fig. 18

Class 3 SIDE LIGHTS

RED AND GREEN LENSES
BOTTOM OPENING—SPRING FOUNT



Height of Lenses, 5¾ inches.
Extreme Height, 12½ inches.
Size of Base 5x6¼ inches.
Weight, per pair, 7½ lbs.

	Galvanized Per Pair	Polished Brass Per Pair
Oil or Elec. only	\$23.00	\$29.00
Oil and Electric	27.00	33.00

Chromium plated finish, add \$8.00 per pair to Polished Brass price.

Fig. 19

Class 3 BOW LIGHTS

CLEAR LENS
BOTTOM OPENING—SPRING FOUNT



Height of Lens, 5¾ inches.
Extreme Height, 12½ inches.
Size of Base, 5½x6¼ inches.
Weight, each, 3½ lbs.

	Galvanized Each	Polished Brass Each
Oil or Elec. only	\$11.50	\$14.50
Oil and Electric	13.50	16.50

Chromium plated finish, add \$4.00 each to Polished Brass price.

With Red, Green or Blue Lens add \$3.00 each.

Fig. 20

Flat Top SIDE LIGHTS

CLASSES 2 AND 3—RED AND GREEN LENSES
BOTTOM OPENING—SPRING FOUNT
ELECTRIC ONLY—DOUBLE CONTACT SOCKET

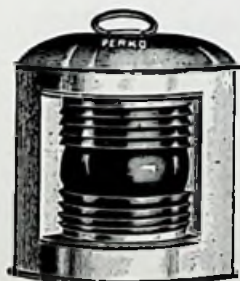


Fig. 4

CLASS 2

Height of Lenses, 4¼ inches.
Extreme Height, 7¼ inches.
Size of Base 4¼x5½ inches.
Weight, per pair, 5 lbs.

CLASS 3

Height of Lenses, 5¾ inches.
Extreme Height, 8½ inches.
Size of Base, 5x6¼ inches.
Weight, per pair, 7 lbs.

Class	Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
2	\$19.50	\$23.00	\$30.00
3	23.00	29.00	37.00

Flat Top BOW LIGHTS

CLASSES 2 AND 3—CLEAR LENS
BOTTOM OPENING—SPRING FOUNT
ELECTRIC ONLY—DOUBLE CONTACT SOCKET



Fig. 5

CLASS 2

Height of Lens, 4¼ inches.
Extreme Height, 7¼ inches.
Size of Base, 4½x5 inches.
Weight, each, 2½ lbs.

CLASS 3

Height of Lens, 5¾ inches.
Extreme Height, 8½ inches.
Size of Base, 5½x6¼ inches.
Weight, each, 3½ lbs.

Class	Galvanized Each	Polished Brass Each	Chromium Plated Each
2	\$9.75	\$11.50	\$15.00
3	11.50	14.50	18.50

Class 2 with Red, Green, or Blue Lens add \$2.50 each.
Class 3 with Red, Green, or Blue Lens add \$3.00 each.

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.00 EACH

SPARE PARTS

Oil and Electric Founts fig. 736
Oil Founts, fig. 286
Lenses, figs. 259 and 260

Electric Adapters, figs. 291 or 292
Electric D.C. Adapters, fig. 355
Oil Burners and Wicks, figs. 246 and 302 No. 1



TOWING or SIGNAL LIGHTS

ALL CAST BRONZE — WITH WATERTIGHT BOX
 MEDIUM SCREW SOCKET — CLEAR FRESNEL GLOBES — CAST BRONZE GUARD
 MAXIMUM LAMP 60 WATTS — VISIBILITY 5 MILES PER U.S.C.G. REGULATIONS

SINGLE - DOUBLE AND TRIPLE LIGHTS

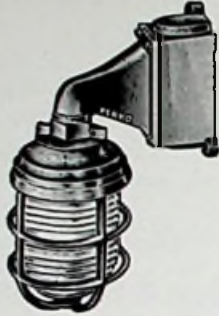


Fig. 540

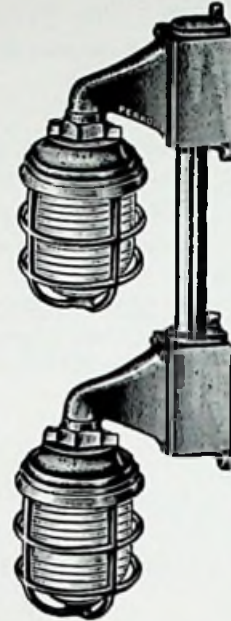


Fig. 541

Fig.		Each	Height Overall Inches	Width Overall Inches	Weight Pounds
540	Single	\$ 32.00	10 1/4	6 3/4	6 3/4
541	Double	\$ 74.50	46 1/2	6 3/4	16
542	Triple (Not Illustrated)	\$118.00	82 1/2	6 3/4	25 1/2

NOTE: Double and Triple Lights with 1/2" Brass Pipe, Lights 3 feet apart.

TAPPING Fig. 540 with one 1/2 inch pipe tap, add \$.50, with two 1/2 inch pipe taps, add \$1.00. Box will accommodate 3/4 inch pipe tap, if such tapping required, price on application.

Figs. 541 and 542 are tapped for the connecting pipe only. If additional taps required, see above.

Figs. 541 and 542 with 3/4 inch pipe or tapping for same, price on application.

SPARE GLOBES clear Fig. 106, \$3.60 each.

COLORED GLOBES can be supplied. Colors are red, green, blue or amber. Add \$1.35 for each globe.

SPARE GUARDS Cast Bronze. \$5.50 each.

SPARE SOCKETS Porcelain Fig. 222 No. 1, \$.90 each.

Navy or Life Boat LANTERN



Fig. 49

OIL BURNING HINGED TOP—CLEAR GLOBE

Galvanized Each	Polished Brass Each	Height Inches
\$11.50	\$14.00	11
Diam. of Base Inches	Size of Globe Inches	Weight Pounds
5 5/8	4 x 6 1/2	3

With Red or Green globe, add \$1.50 each.

With electric adapter fig. 292, add \$1.20 each.

SPARE PARTS

Globe fig. 262.

Burner fig. 246, size 1.

Wick fig. 302, size 1.

Fount fig. 286.

Bulkhead LANTERN



Fig. 46

OIL BURNING

No.	Size Body Inches	Galv. Each	Polished Brass Each
1	7 x 9 1/2 x 13	\$30.00	\$40.00
2	9 x 13 x 17	32.00	42.00

Supplied for electric only with medium screw socket to order, add \$4.00 each.

Spare brass founts only, \$6.00 each.

Spare reflectors, \$5.50 each.

Spare burners, see Fig. 242 No. 2.

Spare chimneys, see Fig. 267 No. 2.



BLINKER AND LOADING LIGHT



Fig. 1163

**CAST BRONZE—PLAIN FINISH
WITH RED AND CLEAR FRESNEL LENSES
MEDIUM SCREW BAKELITE SOCKETS**

Four sockets in lower section for 25 watt tubular bulbs. One socket in upper section for bulb up to 60 watt. Bulbs not included. Base threaded 1 inch I. P. S.

Extreme Height Inches	Height Red Lens Inches	Height Clear Lens Inches	Weight Pounds
17 3/8	5	5 1/2	18
Each	Tubular Bulbs Each	Spare Sockets Each	
\$82.50	\$1.00	\$.75	

Spare clear lenses fig. 261, \$9.60 each.
Spare red lens fig. 106, \$4.95 each.



Fig. 403

**Mast
or
Blinker
SIGNALING
LIGHTS**

With Hinged Top
For Rebulbing.

**CAST BRONZE—WATERTIGHT—PLAIN FINISH
WITH 360° FRESNEL LENS**

Size No.	Height Lens Inches	Height Overall Inches	I. P. S. Thread Inches	Weight Pounds	For Vessel Feet
1	3 3/8	6 1/2	1/2	4	up to 65
2	4 1/4	8 1/4	3/4	6	65 to 150
3	5 1/2	9 3/4	1	10	over 150

Size No.	Clear Each	Each Colored	Electrical Equipment
1	\$24.00	\$25.00	1 medium screw socket
2	28.00	30.00	1 medium screw socket
2-B	35.00	37.00	6 light candelabra unit
2-C	32.00	34.00	1 mogul 3 wire socket
3	39.00	46.00	1 medium screw socket
3-A	45.00	52.00	4 medium screw sockets
3-C	47.00	54.00	6 light candelabra unit
3-D	43.00	50.00	1 mogul 3 wire socket

All above sockets are Phenolic (Bakelite).
For spare lenses, see fig. 261.
Colored lenses are red, green, blue or amber.

BULBS FOR ABOVE

120 volt 60 watt A-19 clear for Nos. 1, 2, 3, \$.55 each.
120 volt 25 watt T-10 clear for No. 3-A, \$.90 each.
120 volt 50/50 watt P-25 clear for No. 2-C, 3-D, \$5.50 each.
120 volt, 15 watt, T-7 clear with candelabra base for Nos. 2-B and 3-C. \$1.05 each.



Fig. 44

**Globe
Distress
or
SIGNAL
LIGHT**

**CLEAR GLOBE
OIL BURNING**

No.	Diam. Globe Inches	Galv. Steel Each	Polished Brass Each	Height Overall Inches	Weight Pounds
1	6	\$17.50	\$26.50	11	4
2	8	20.50	31.00	14 1/2	6
3	10	36.75	49.50	22	12

With red, green, blue or frosted globe, add \$5.00 each.

Electric only, same prices as above.

Comb. oil and electric 6 and 8 inch, add \$1.75 each.

Comb. oil and electric 10 inch, add \$4.25 each.

Hinged bottom furnished with 8 inch size only.

SPARE PARTS

Size	Globes	Burners	Founts	
			Oil	Elec.
6	Fig. 264	Fig. 246 No. 0	Fig. 287	Fig. 274
8	Fig. 264	Fig. 246 No. 1	Fig. 286	Fig. 292
10	Fig. 264	Fig. 242 No. 2	Fig. 282	Fig. 288

Note—6 inch size with Green Globe, not available.

Watertight BLINKER KEY

**CAST BRONZE—PLAIN FINISH
TUNGSTEN POINTS—CONDENSER
U.S.C.G. APPROVED**



Fig. 9

Condenser is metal encased, 400 volts D.C. .25 M. F. D. Ground test 2000 volts.

Cover sealed by 6 screws and rubber gasket. Box has three mounting lugs.

Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$33.50	4 3/8	2 3/4	2 3/8	4

Interior complete with Condenser, each \$13.00.



ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

Watertight — Cast Bronze Rebulbing Cap — Terminal Tubes
MOGUL 3-WIRE PHENOLIC SOCKETS FIG. 270 FOR DOUBLE FILAMENT BULBS



Fig. 1150

Side Lights, Fig. 1150

112½ DEGREE RED AND GREEN LENSES—10 POINT—IN PAIRS
 WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel Feet
1	\$105.00	\$132.00	6¾	11	7¼ x 7¼	18	65 to 150
2	136.00	167.00	7½	13½	9½ x 9½	30	over 150
3	233.00	275.00	8½	15¼	10½ x 10¼	36	over 150

Masthead, Range and Towing Lights, Fig. 1151

225 DEGREE CLEAR LENS—20 POINT
 WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
1	\$52.50	\$66.00	6¾	11	7⅞ x 7¾	8¾	10
2	68.00	83.50	7½	13½	9 x 10	10½	15
3	116.50	137.50	8½	15¼	10¼ x 11¼	12¼	21



Fig. 1151

With red or green lens (special purpose) add \$11.00 each.
 With amber lens in Sizes No. 1 and 2 only, add \$11.00 each.



Fig. 1152

Stern Lights, Fig. 1152

135 DEGREE CLEAR LENS—12 POINT
 WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
1	\$52.50	\$66.00	6¾	11	7 x 7½	8¾	9
2	68.00	83.50	7½	13½	9 x 10	10½	12
3	116.50	137.50	8½	15¼	10½ x 10¾	12¼	15

With red or green lens (special purpose) add \$11.00 each.
 With 45 degree red lens (for suction dredges) add \$15.00 each.
 With amber lens in Sizes No. 1 and 2 only, add \$11.00 each.

Anchor Lights, Fig. 1153

360 DEGREE CLEAR LENS — 32 POINT
 WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
1	\$51.50	\$65.00	6¾	10¾	7¾	11
2	67.00	82.50	7½	12¾	9¾	16
3	115.50	136.50	8½	14¾	10½	22



Fig. 1153
 Fig. 1154

Breakdown Lights, Fig. 1154

360 DEGREE RED LENS—32 POINT
 WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
1	\$56.50	\$71.00	6¾	10¾	7¾	11
2	73.00	88.50	7½	12¾	9¾	16
3	124.50	145.50	8½	14¾	10½	22

NOTES

Above prices do not include bulbs.
 For double filament bulbs see fig. 532.
 With 2 medium screw phenolic sockets, sizes No. 2 and 3 only, add \$7.00 each.
 With medium screw phenolic sockets fig. 346, deduct \$1.00 each.
 Spare cast bronze watertight caps with gasket, diameter overall 5¾", diameter across thread 5", \$7.00 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION.



OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

American Improved Hinged Top—Bottom Opening

SWIVEL FOUNT FIG. 282—HINGED BURNER FIG. 242

LIP CHIMNEY FIG. 267—FLAT WICK FIG. 302

Side Lights, Fig. 1155

112½ DEGREE RED AND GREEN LENSES—10 POINT—IN PAIRS WITH BRACKET FOR MOUNTING



Fig. 1155

Masthead, Range and Towing Lights, Fig. 1156

225 DEGREE CLEAR LENS—20 POINT WITH FOUR LUGS FOR MOUNTING



Fig. 1156

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$50.00	\$64.00	5½	13¾	7 x 7¼	8½	7
1	52.50	66.00	6¾	14¾	7 x 7¼	8¾	9
2	68.00	83.50	7½	18	9 x 10	10¾	15
3	116.50	137.50	8½	19¾	10¼ x 11¼	12¾	21

With red or green lens (special purpose), add \$11.00 each.
With amber lens Sizes No. 0, 1 and 2 only, add \$11.00 each.

Stern Lights, Fig. 1157

135 DEGREE CLEAR LENS—12 POINT WITH FOUR LUGS FOR MOUNTING



Fig. 1157

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$50.00	\$64.00	5½	13¾	7 x 7¼	8½	6
1	52.50	66.00	6¾	14¾	7 x 7¼	8¾	8
2	68.00	83.50	7½	18	9 x 10	10¾	13
3	116.50	137.50	8½	19¾	10¼ x 10¼	12¾	16

With red or green lens (special purpose), add \$11.00 each.
With 45 degree lens (for suction dredges), add \$15.00 each.
With amber lens Sizes 0, 1 and 2 only, add \$11.00 each.

Anchor Lights, Fig. 1158

360 DEGREE CLEAR LENS—32 POINT WITH FOUR LASHING EYES AND WIRE GUARD



Fig. 1158
Fig. 1159

No.	Galv. Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Wt. Each Lbs.
0	\$49.00	\$63.00	5½	13	7¾	10
1	51.50	65.00	6¾	14	7¾	11
2	67.00	82.50	7½	17¼	9¾	17
3	115.50	136.50	8½	18¾	10¼	23

Breakdown Lights, Fig. 1159

360 DEGREE RED LENS—32 POINT WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galv. Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Wt. Each Lbs.
0	\$54.00	\$68.00	5½	13	7¾	10
1	56.50	71.00	6¾	14	7¾	11
2	73.00	88.50	7½	17¼	9¾	17
3	124.50	145.50	8½	18¾	10¼	23



Oil Lamp used in Lights on this page

No.	Each
0 or 1 Comp.	\$8.00
2 or 3 Comp.	9.30

ELECTRIC ONLY

With Fig. 288 Medium Screw Adapter, use above prices.
With Fig. 289 Medium Screw Adapter, installed only in Sizes No. 2 and 3, add \$3.00 each.
With Fig. 1082 3 Wire Mogul Adapter, add \$3.25 each.

COMBINATION OIL AND ELECTRIC

With Fig. 288 Medium Screw Adapter, add \$5.00 each.
With Fig. 289 Medium Screw Adapter, installed only in Sizes, No. 2 and 3, add \$8.00 each.
With Fig. 1082 3 Wire Mogul Adapter, add \$8.25 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION



ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

Flat Top Style — Bottom Opening

MEDIUM SCREW 2 WIRE PHENOLIC ADAPTER FIG. 288 FOR SINGLE FILAMENT BULBS



Fig. 30

Side Lights, Fig. 30

112½ DEGREE RED AND GREEN LENSES — 10 POINT
IN PAIRS—WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel Feet
0	\$77.00	\$104.00	5½	10½	6½x6½	12	65 to 90
1	81.00	112.00	6¾	11	7½x7½	14	90 to 150
2	107.00	143.00	7½	13½	9½x9½	24	over 150

Masthead, Range and Towing Lights, Fig. 983

225 DEGREE CLEAR LENS — 20 POINT
WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$38.50	\$52.00	5½	10½	7 x 7	8½	6
1	40.50	56.00	6¾	11	7 x 7	8¾	8
2	53.50	71.50	7½	13½	9 x 9½	10¾	12½

With red or green lens (special purpose), add \$11.00 each.
With amber lens, add \$11.00 each.



Fig. 983

Stern Lights, Fig. 986

135 DEGREE CLEAR LENS — 12 POINT
WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$38.50	\$52.00	5½	10½	7 x 7	8½	5½
1	40.50	56.00	6¾	11	7 x 7	8¾	7
2	53.50	71.50	7½	13½	9 x 9½	10¾	9½

With red or green lens (special purpose) add \$11.00 each.
With 45 degree red lens (for suction dredges) add \$15.00 each.
With amber lens, add \$11.00 each.



Fig. 986

Anchor Lights, Fig. 32

360 DEGREE CLEAR LENS — 32 POINT
WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$37.50	\$51.00	5½	9¾	7½	8
1	39.50	55.00	6¾	10¾	7½	9
2	52.50	70.50	7½	12¾	9¾	13

Breakdown Lights, Fig. 84

360 DEGREE RED LENS — 32 POINT
WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$42.50	\$56.50	5½	9¾	7½	8
1	45.50	61.00	6¾	10¾	7½	9
2	58.50	76.50	7½	12¾	9¾	13



Fig. 32
Fig. 84

NOTES

Above prices do not include bulbs.
With double 2 wire medium screw adapter fig. 289 (Size 2 only) add \$3.00 each.
With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$3.25 each.
COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION



OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG



Turret Top — Bottom Opening

SWIVEL FOUNT FIG. 282 — HINGED BURNER FIG. 242
LIP CHIMNEY FIG. 267 — FLAT WICK FIG. 302

Side Lights, Fig. 21

112½ DEGREE RED AND GREEN LENSES — 10 POINT — IN PAIRS
WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Ring Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel Feet
9	\$77.00	\$104.00	5½	14	6½x6½	13	65 to 90
10	81.00	112.00	6¾	15	7½x7½	15	90 to 150
11	107.00	143.00	7½	18¾	9½x9½	26	over 150

Fig. 21

Masthead, Range and Towing Lights, Fig. 982

225 DEGREE CLEAR LENS — 20 POINT
WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Ring Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$38.50	\$52.00	5½	14	7 x 7	8½	7½
1	40.50	56.00	6¾	15	7 x 7	8¾	9½
2	53.50	71.50	7½	18¾	9 x 9½	10½	14

With red or green lens (special purpose), add \$11.00 each.
With amber lens, add \$11.00 each.



Fig. 982

Stern Lights, Fig. 985

135 DEGREE CLEAR LENS — 12 POINT
WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Ring Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$38.50	\$52.00	5½	14	7 x 7	8½	6
1	40.50	56.00	6¾	15	7 x 7	8¾	7½
2	53.50	71.50	7½	18¾	9 x 9½	10½	10½

With red or green lens (special purpose) add \$11.00 each.
With 45 degree red lens (for suction dredges) add \$15.00 each.
With amber lens, add \$11.00 each.



Fig. 985

Anchor Lights, Fig. 23

360 DEGREE CLEAR LENS—32 POINT
WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Ring Inches	Diam. Base Inches	Weight Each Pounds
22	\$37.50	\$51.00	5½	13¾	7½	8½
22½	39.50	55.00	6¾	14½	7½	10
23	52.50	70.50	7½	17¾	9¾	14

Breakdown Lights, Fig. 129

360 DEGREE RED LENS—32 POINT
WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Ring Inches	Diam. Base Inches	Weight Each Pounds
22	\$42.50	\$56.50	5½	13¾	7½	8½
22½	45.50	61.00	6¾	14½	7½	10
23	58.50	76.50	7½	17¾	9¾	14



Fig. 23 or 129

ELECTRIC ONLY

With Fig. 288 Medium Screw Adapter, use above prices.
With Fig. 289 Medium Screw Adapter, installed only in Sizes No. 2, 11 and 23, add \$3.00 each.
With Fig. 1082 3 Wire Mogul Adapter, add \$3.25 each.

COMBINATION OIL AND ELECTRIC

With Fig. 288 Medium Screw Adapter, add \$5.00 each.
With Fig. 289 Medium Screw Adapter, installed only in Sizes No. 2, 11 and 23 add \$8.00 each.
With Fig. 1082 3 Wire Mogul Adapter, add \$8.25 each.

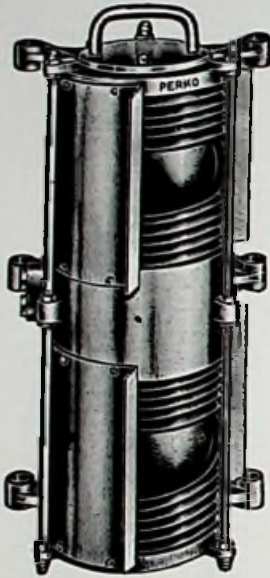
COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION



TWO LENS NAVIGATION LIGHTS FOR SHIPS

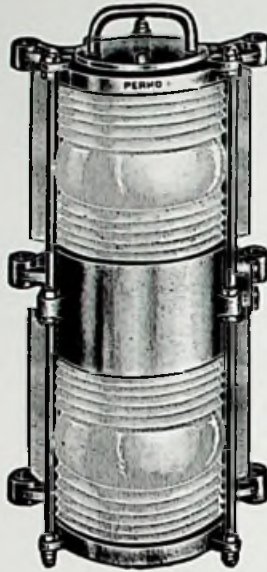
PER A.I.E.E. SPECIFICATION NO. 45 SECTION 34 PARAGRAPH 34.01
 WATERTIGHT—ELECTRIC ONLY—CAST BRONZE
 U.S. COAST GUARD APPROVED

SIDE LIGHTS



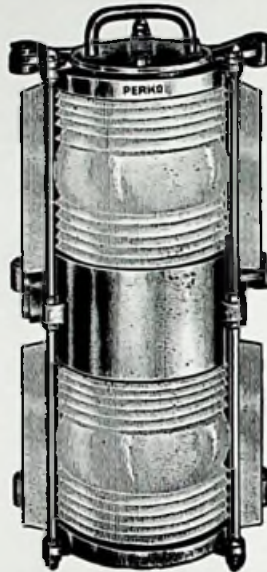
10 Point-112½°
Fig. 1164

**MASTHEAD—RANGE
& TOWING LIGHTS**



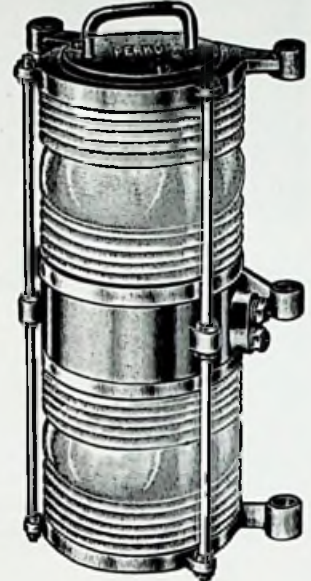
20 Point-225°
Fig. 1165

STERN LIGHTS



12 Point-135°
Fig. 1166

**ANCHOR OR
BREAKDOWN LIGHTS**



32 Point-360°
Fig. 1167-Clear
Fig. 1168-Red

Two individual lights in one body. Each section contains a Fresnel Lens, a medium screw phenolic socket for single filament lamp and a watertight cap for relamping or cleaning. A watertight terminal tube for cable entrance to each section and shields for light angle are included.

Fig.	Description	Price
1164	SIDE LIGHTS, with red lenses for port side, green lenses for starboard side	Per Pair \$260.00
1165	MASTHEAD, RANGE OR TOWING LIGHTS, with clear lenses	Each 125.00
1166	STERN LIGHTS, with clear lenses	Each 125.00
1167	ANCHOR LIGHTS, with clear lenses	Each 123.00
1168	BREAKDOWN LIGHTS, with red lenses	Each 130.00

FIGS. 1165 OR 1166 WITH COLORED LENSES, RED OR GREEN, ADD \$6.50 EACH

Spare Lenses Fig. 261 No. 1½ Clear Each	Colored Each	Spare Sockets Fig. 364 No. 2 Each	Spare Rubber Lens Gaskets Each	Height Less Handle Inches	Centers of Mounting Lugs Inches	Height Lens Inches	Weight Each Pounds
\$15.50	\$22.00	\$.70	\$3.00	18¾	8¾	6¾	30



Fig. 1169-Clear
Fig. 1170-Red

Single Lens Anchor or Breakdown Lights

PER A.I.E.E. SPECIFICATIONS NO. 45
 U.S. COAST GUARD APPROVED

WATERTIGHT—ELECTRIC ONLY—CAST BRONZE
 32 POINT—360 DEGREE CLEAR OR RED LENS
 Medium Screw Phenolic Socket For Single Filament Lamp

Fig. 1169 Each	Fig. 1170 Each	Height Less Handle Inches	Centers of Mounting Lugs Inches	Height Lens Inches	Weight Pounds
\$79.00	\$85.50	9	8¾	6¾	15½

With shield for reduced light angles, (give degrees of light required) add \$11.00 each.



MARR VISIBLE SIGNAL WHISTLE LIGHT

PATENTS APPLIED FOR

AMBER PLASTIC LENSES—MIRROR REFLECTORS

RATED LIFE OF SEALED BEAM UNIT 2000 HOURS

500 WATT—110,000 CANDLE POWER—120 VOLTS

GALV. STEEL — ZINC CHROMATE UNDERCOAT AND GREY PAINTED FINISH
OR STAINLESS STEEL — NATURAL FINISH

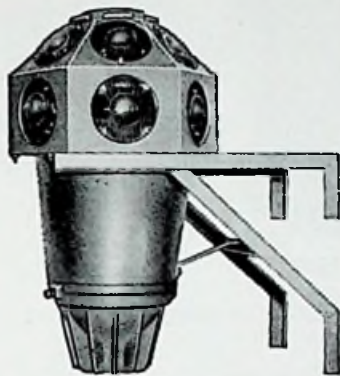


Fig. 1136 Type A-1

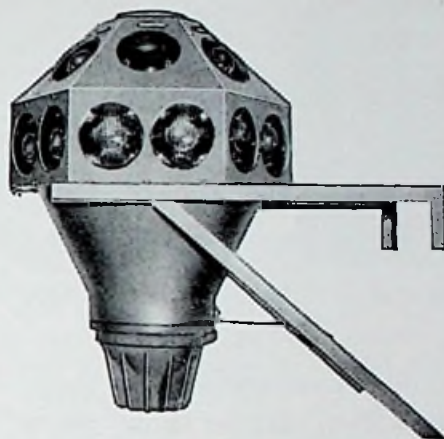


Fig. 1137 Type A-2

The MARR Visible Whistle Signal was developed because of the urgent need for such a device as emphasized by the increasing number of collisions of ships at sea, due to the failure of adjacent ships to hear or to properly interpret the audible whistle signals.

This is especially true since the adoption of Air Whistles on Diesel powered ships. In steam powered ships, the steam from the whistles can be clearly seen before the sound is heard and the ship signalling can be usually identified in the daytime, but even with steam in the night or in fog or mist, the steam whistle might be heard but would still be invisible.

The MARR Signal, equipped with multiple Amber Lenses, cannot be mistaken for any other light signal afloat or ashore. Its powerful rays are projected vertically directly toward the clouds, horizontal beams produced by periscopic type reflectors cover the horizontal area all around the horizon and additional Amber Lenses at an angle of 45 degrees encompass the space between the horizontal and vertical areas, thus covering in every direction an expanse never equalled by any other signalling light.

This Whistle Signal conforms exactly to the present "Rule No. 92.21 Visual Signal" in the "Pilot Rules" of the U. S. Coast Guard, which reads as follows:

-----"an amber colored light so located as to be visible all around the horizon for a distance of not less than **one mile**.

This light shall be so devised that it will operate simultaneously and in conjunction with the whistle sounding mechanism, and remain ignited or visible during the same period as the sound signal."

It will be noted that the above Rule requires visibility for only one mile while the MARR Signal provides visibility in every direction far in excess of the mile specified.

Fig.	Type	Galvanized Steel Each	Stainless Steel Each	Height Light Inches	Width Light Inches	Weight Pounds
1136	A-1	\$275.00	\$325.00	24	16	22
1137	A-2	325.00	380.00	28	18	28

NOTE:—A manual pull switch and relay is available for above lights supplied to order.

Pull Switch only \$24.00 each

Relay only, 120 Volts, \$30.00 each

When ordering relay specify A.C. or D.C.



SELF CONTAINED BATTERY NAVIGATION LIGHTS

For Oil Carriers, Barges, Scows, Etc.

Watertight Type

2 MILE VISIBILITY—FOR 2 No. 6 DRY CELLS IN SERIES—WITH SWITCH

Side Lights
112½ Degrees



Fig. 1001

Masthead or
Range Light
225 Degrees



Fig. 1002

Stern
Light
135 Degrees



Fig. 1003

Standard No. 6 Dry
Cells used with
These Lights



	Fig. 1001		Fig. 1002		Fig. 1003		Fig.	DIMENSIONS			Weight Less Batteries Pounds
	Red and Green Per Pair	Clear Each	Amber Each	Clear Each	Amber Each	Height Lens Inches		Height Body Inches	Size Base Inches		
Galvanized	\$115.00	\$73.00	\$84.50	\$73.00	\$84.50	1001	6¾	11	7¼ x 7¼	18	
Pol. Brass	142.00	88.50	100.00	88.50	100.00	1002	7½	13½	9 x 9½	15	
Spare Lenses	27.50	16.50	28.00	13.25	21.00	1003	7½	13½	9 x 9½	12	

Above prices include bulbs, no batteries.

Spare bulbs, double contact 2.5 volts. 15 amp. S-8 \$1.80 each.

Waterproof Type

2 MILE VISIBILITY—FOR 2 NO. 6 DRY CELLS IN SERIES—WITH SWITCH

200 HOURS CONTINUOUS OPERATION ON ONE SET OF BATTERIES

Side Lights
112½ Degrees



Fig. 1008

Masthead or
Range Light
225 Degrees



Fig. 1013

Stern
Light
135 Degrees



Fig. 1014

	Fig. 1008		Fig. 1013		Fig. 1014		Fig.	DIMENSIONS			Weight Less Batteries Pounds
	Red and Green Per Pair	Clear Each	Amber Each	Clear Each	Amber Each	Height Lens Inches		Height Body Inches	Size Base Inches		
Galvanized	\$91.00	\$63.50	\$75.00	\$63.50	\$75.00	1008	6¾	11	7¼ x 7¼	15	
Spare Lenses	27.50	16.50	28.00	13.25	21.00	1013	7½	13½	9 x 9½	13	
						1014	7½	13½	9 x 9½	10	

Above prices include bulbs, no batteries.

Bulb is double contact 2.5 volts .15 amp. S-8 \$1.80 each.

Battery containers as illustrated, complete with reflector, socket, bulb and switch, without batteries, \$17.00 each.



30 Day Battery ANCHOR LIGHT

360 DEGREE CLEAR FRESNEL LENS
WATERPROOF—WITH SWITCH AND BULB



Fig. 470

For use with four standard 1½ volt dry cells such as Eveready No. 6, readily obtainable.

720 continuous hours of light on one set of batteries.

No.	Galvanized Steel Each	Polished Copper Each	Height Lens Inches	Height Overall Inches	Diam. Base Inches	Weight Pounds
1	\$39.50	\$47.75	4¼	15	6¾	5½
2	56.00	65.00	5½	16	6¾	7½

Spare parts and other information, see below.

60 Day Battery ANCHOR LIGHT

360 DEGREE CLEAR FRESNEL LENS
WATERPROOF—WITH SWITCH AND BULB



Fig. 474

Uses 6 standard 1½ volt No. 6 dry cells available anywhere.

Over 1500 hours continuous light on one set of batteries.

No.	Galvanized Steel Each	Polished Copper Each	Height Lens Inches	Height Overall Inches	Diam. Base Inches	Weight Pounds
3	\$72.00	\$84.00	5½	16	8½	8½

Figs. 470 and 474—Spare parts and other data.

No. 1 Red, Green or Amber lens, add \$2.75 each.

Nos. 2 and 3 Red, Green or Amber lens, add \$7.00 each.

Light shielded to 112½, 135 or 225 degrees, add \$10.00 each.

Spare bulbs, 6 volt .04 amp. miniature base. \$.45 each.

Spare lenses, see fig. 261. Spare switches, see fig. 745.

Spare sockets, \$.25 each.

Spare battery containers, galvanized, \$12.50 each. Copper, \$16.00 each.

Spare socket holder with socket, \$2.00 each.

Tri-Color TRAWLER LIGHTS

FOR VESSELS UP TO 75 FEET

ELECTRIC ONLY—MEDIUM SCREW SOCKET
45 DEGREE CLEAR FRESNEL LENS—4 POINT

90 DEGREE RED AND GREEN FRESNEL LENSES—8 POINT

WITH FIG. 131 BACK BRACKET

BOTTOM OPENING—SPRING FOUNT



Fig. 408 — No. 0

Galv. Steel Each	Spare Lenses Each	Height Less Ring Inches	Height Lenses Inches	Weight Pounds
\$35.00	\$4.25	8½	5¾	3½

With bayonet double contact socket to order, same price as above.

With ventilated top for oil burning add \$6.00 each. For oil and electric, add \$7.75 each.

VAPOR-PROOF FIXTURES

COMBINATION JUNCTION BOX

CEILING AND BULKHEAD TYPE

CAST BRONZE WITH 6" WIRE GUARDS

AND SCREW GLASS GLOBES

Ceiling Type

Bulkhead Type



Fig. 1087



Fig. 1090

Fig.	Type	Each	For Lamp Wattage	Weight Pounds
1087	Keyless	\$13.75	60 to 100	3½
1090	Keyless	13.75	60 to 100	4

With Cast Bronze Guards, add \$2.00 to above prices.

Above fixtures have one ½" I.P.S. tapping. Extra tapping \$.50 per hole.



"PERKO" Bridge and Pier LIGHTS

In strict accordance with specifications and regulations of the Treasury Department, U. S. Coast Guard, on marking and lighting of bridges. See "Aids To Navigation" C.G.-208 Subpart 68.15, January 1st, 1953 with amendments.

Regulation PIER LIGHTS

For Piers, Axis, Abutments, Channel Sides, or Channel Margins. 180 Degree Red Fresnel Lens. Body of Sheet Steel or Sheet Brass. Electric Socket Is Phenolic Medium Screw, U.S.C.G. Approved.

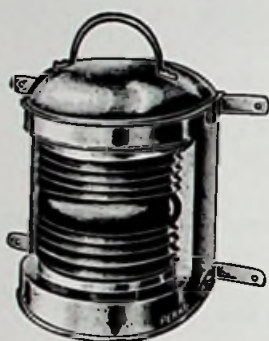


Fig. 29

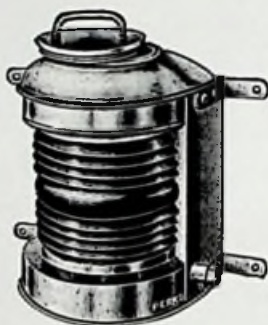


Fig. 31

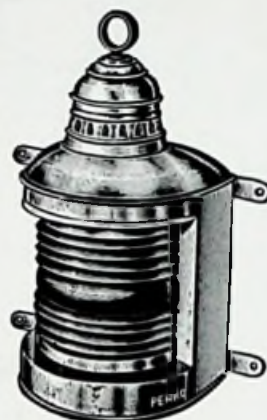


Fig. 59

FIG. 29—For electric only. With bottom opening and brass swivel electric adapter.

FIG. 31—Watertight, for electric only, with cast bronze threaded cap and brass packing gland for cable.

FIG. 59—For Oil only, Electric only, or Oil and Electric. Has bottom opening and brass swivel fount with burner, wick and chimney for oil, or brass electric adapter for electricity. Both supplied for "Oil and Electric."

All above supplied with four brackets for mounting.

FIG.		Galv. Steel Each	Polished Brass Each	Height Lens Inches	*Height Overall Light Inches	Width Overall Inches	Size Base Inches	Weight Pounds
29	Electric only	\$73.00	\$90.00	7 $\frac{3}{8}$	13 $\frac{1}{4}$	14 $\frac{1}{2}$	9 $\frac{7}{8}$ x 9 $\frac{1}{8}$	9
31	Electric only	81.00	98.00	7 $\frac{3}{8}$	13 $\frac{1}{4}$	14 $\frac{1}{2}$	9 $\frac{7}{8}$ x 9 $\frac{1}{8}$	11
59	Oil or Electric	73.00	90.00	7 $\frac{3}{8}$	18	14 $\frac{1}{2}$	9 $\frac{7}{8}$ x 9 $\frac{1}{8}$	13
59	Oil and Electric	78.00	95.00	7 $\frac{3}{8}$	18	14 $\frac{1}{2}$	9 $\frac{7}{8}$ x 9 $\frac{1}{8}$	13

With Clear Lens for main channel markers on fixed bridges or with green or amber lens for special purpose, use above prices.

* Height of light does not include handle or ring.

Spare Parts

	Each		Each
Fresnel Lenses	\$23.00	Oil Fount	\$5.00
Mounting Brackets	1.40	Oil Burner	2.90
Electric Socket	.70	Oil Wicks	.10
Electric Adapter	5.00	Chimneys	1.38



Regulation PIER LIGHTS

Cast Bronze or Cast Aluminum — Emery Finish — Watertight
For Piers, Axis, Abutments, Channel Sides or Channel Margins.

180 Degree Red Fresnel Lens.

Electric Only — With Phenolic Medium Screw Approved Socket.



Fig. 125

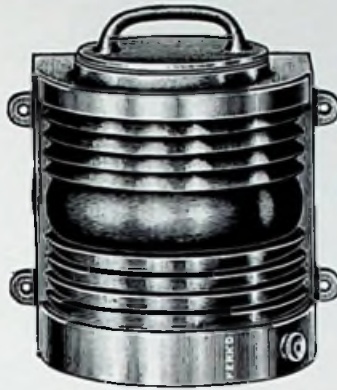


Fig. 1005

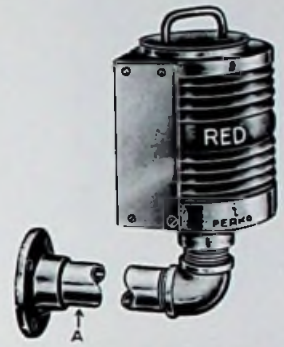


Fig. 1010

FIG. 1005—Has four integral mounting lugs drilled for $\frac{3}{8}$ inch diameter bolt and brass packing gland for cable.

FIG. 125—This is fig. 1005 mounted on 1 inch brass pipe and good sturdy cast bronze flange. Brass packing gland for cable with 2 inch pipe and flange, add \$12.00 each.

FIG. 1010—This is fig. 1005 mounted on 2 inch brass pipe and fittings. Standard length of pipe "A" is $3\frac{1}{2}$ inches. Special length, please specify, price on application.

FIG.	Cast Bronze Each	Cast Aluminum Each	Height Lens Inches	*Height Overall Light Inches	Width Light Inches	Size Base Inches	Weight Pounds	
							Bronze	Aluminum
1005	\$106.00	\$ 80.00	7 $\frac{3}{8}$	9 $\frac{1}{4}$	**9 $\frac{1}{4}$	8 $\frac{3}{8}$ x7 $\frac{3}{8}$	18	12
125	118.00	90.00	7 $\frac{3}{8}$	19	8 $\frac{1}{4}$	5	24	18
1010	146.00	120.00	7 $\frac{3}{8}$	17 $\frac{1}{2}$	8 $\frac{1}{4}$	6	28	22

With clear lens for main channel markers on fixed bridges or with green or amber lens for special purpose, use above prices.

*Height of light does not include handle.

**Width is to centers of mounting holes.

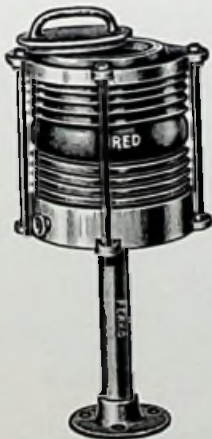


Fig. 126

Special Purpose LIGHTS ON PEDESTAL

With 360 Degree Red, Green, or Clear Lens.

For Sheer Booms, Isolated Piers, Obstructions, etc.

Cast Bronze or Cast Aluminum — Emery Finish.

Watertight — Electric Only.

Mounted on 1 inch brass pipe and good sturdy cast bronze flange. Has phenolic medium screw socket and brass packing gland for cable. Cast threaded cap.

Cast Bronze Each	Cast Aluminum Each	Height Lens Inches	*Height Overall Light Inches	Width Light Inches	Diam. Base Inches	Weight Pounds	
						Br.	Alum.
\$120.00	\$90.00	7 $\frac{3}{8}$	19	11 $\frac{1}{2}$	5	24	18

This light can be supplied shielded to various degrees as required. Price on application.

*Height of light does not include handle.

NOTE—Figs. 125, 126 and 1010 in special height other than standard, price on application.



Regulation Swing, Draw or Folding BRIDGE LIGHTS

For Span of Through, Deck and Half Through Swing Bridges or Single Opening Draw Bridges with Alternate Red and Green 60 Degree Fresnel Lenses.
Socket Is Phenolic Medium Screw, U.S.C.G. Approved.

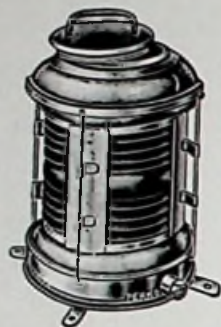


Fig. 35



Fig. 39

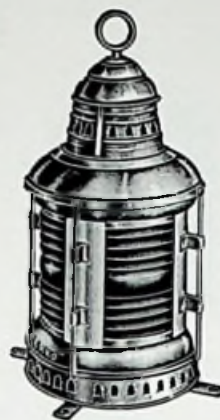


Fig. 50

FIG. 35—Watertight, for electric only. Made of sheet metal, either galvanized steel or brass with cast bronze threaded cap and brass packing gland for cable.

FIG. 39—Watertight, for electric only. Made of cast bronze or cast aluminum in emery finish. With cast threaded cap and packing gland for cable.

FIG. 50—For Oil, Electric or Oil and Electric. Made of sheet metal, either galvanized steel or brass. Has bottom opening and brass swivel fount with burner, wick and chimney for oil, or adapter for electricity. Both supplied for "Oil and Electric".

FIG.		Galv. Each	Polished Brass Each	Cast Bronze Each	Cast Aluminum Each	Spare Lenses Each	Height Lens Inches	*Height Overall Light Inches	**Width Overall Inches	Weight Pounds	
										Br.	Alum.
35	Elec. only	\$100.00	\$118.00			\$12.00	7 $\frac{3}{4}$	13 $\frac{3}{4}$	12 $\frac{1}{2}$	13 $\frac{1}{2}$	
39	Elec. only			\$130.00	\$110.00	12.00	7 $\frac{3}{4}$	9 $\frac{3}{4}$	11 $\frac{1}{4}$	22	15
50	Oil or Elec.	84.00	102.00			12.00	7 $\frac{3}{4}$	18	12 $\frac{1}{2}$	14	
50	Oil and Elec.	89.00	107.00			12.00	7 $\frac{3}{4}$	18	12 $\frac{1}{2}$	14 $\frac{1}{2}$	

*Height of light does not include handle or ring.

**Width includes mounting brackets.

Box Type Regulation Draw SPAN LIGHTS

With 360 Degree Clear Fresnel Lens Enclosed by Alternate Red and Green Flat Glass Panels Showing 60 Degrees of Light.

FIG. 63—For Oil, Electric or Oil and Electric, made of Sheet Steel and Galvanized. Bottom opening with brass fount or adapter.

FIG. 1007—Watertight, for electric only. Made of cast bronze with threaded cap and packing gland.

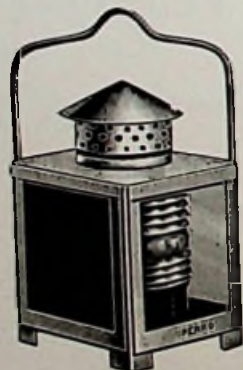


Fig. 63

FIG.		Galv. Each	Bronze Each	Spare Lens Each	Spare Panels Each
63	Oil or Elec.	\$ 95.00		\$16.50	\$4.40
63	Oil and Elec.	100.00		16.50	4.40
1007	Elec. only		116.00	16.50	4.40

Spare oil founts complete for Fig. 63, each \$12.60.

Spare electric adapter for Fig. 63, each \$11.00.

FIG.	Height Lens Inches	Height Less Handle Inches	Width Overall Inches	Dimensions of Panels Inches	Weight Pounds
63	7 $\frac{3}{4}$	18	11 $\frac{1}{4}$	9 $\frac{1}{2}$ x 10 $\frac{3}{4}$	18
1007	7 $\frac{3}{4}$	12	12 $\frac{1}{2}$	9 x 9	48

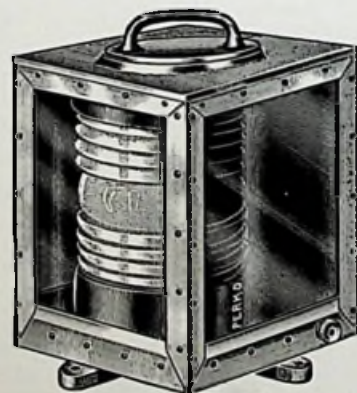


Fig. 1007

All lights on this page supplied with one lens or panel shielded for 3-way light (one red, two green) use above prices, please specify.



Regulation Mid-Channel SPAN LIGHTS

For Fixed Bridges

360 Degree Green Fresnel Lens

Electric Socket Is Phenolic Medium Screw, U.S.C.G. Approved



Fig. 68



Fig. 1006



Fig. 80

- FIG. 68—For electric only, with bottom opening and brass swivel electric adapter. Made of sheet metal, either galvanized steel or brass.
- FIG. 1006—Watertight, for electric only. Made of cast bronze or cast aluminum in emery finish. With cast threaded cap and brass packing gland.
- FIG. 80—For oil only, electric only, or oil and electric. Made of sheet metal, either galvanized steel or brass. Has bottom opening and brass swivel fount with burner, wick and chimney for oil, brass electric adapter for electricity.

FIG.		Galvanized Steel Each	Polished Brass Each	Cast Bronze Each	Cast Aluminum Each	Height Lens Inches	*Height Overall Light Inches	Width Overall Inches	Weight Pounds	
									Br.	Alum.
68	Electric only	\$58.50	\$76.50			7½	14½	9½	13	
1006	Electric only			\$110.00	\$95.00	7½	9½	11½	21	14
80	Oil or Elec.	73.00	88.50			7½	18	9¾	17	
80	Oil and Elec.	78.00	93.50			7½	18	9¾	17	

With clear, or red lens for special purpose, use above prices.

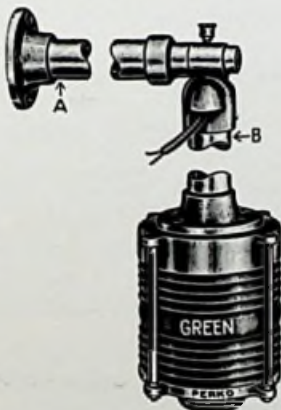


Fig. 1011

Regulation Mid-Channel SPAN LIGHT with Pivot Mounting

Cast Bronze or Cast Aluminum — Emery Finish
 Watertight — Electric Only — Medium Screw Socket
 360 Degree Green Fresnel Lens

This is Fig. 1006 with pivot mounting allowing light to be seen beneath the bridge yet can be swung to the upper level for rebulbing or cleaning. Entrance is through cast threaded cap in bottom of light body. Pipe is brass, 2 inch size. Standard length at "A" and "B" is 2 inches. Flanges and other fittings are cast bronze.

Cast Bronze Each	Cast Aluminum Each	Height Lens Inches	*Height Overall Inches	Width Overall Inches	Weight Pounds	
					Bronze	Aluminum
\$210.00	\$180.00	7½	20¼	11½	36	29

NOTE—With special length of pipe at "A" or "B", price on application.

*Height does not include handle.

Lift SPAN LIGHTS For Bascule Bridges

For Single and Double Lift Bridges. 180 Degree Red and Green Fresnel Lenses. Cast Bronze or Cast Aluminum — Emery Finish — Watertight — Electric Only — Medium Screw Socket



Fig. 22



Fig. 127



Fig. 1012

FIG. 22—Swinging type with fixed extension. Pipe is brass, 2 inch size, 6 inches long. Bracket is cast bronze. Light contains two bakelite medium screw sockets, one for each lens. Entrance for rebulbing or cleaning is through two 4½ inch openings, one in back of upper section, the other in bottom of lower section. both closed by threaded cast caps. Complete with brass grease cup.

FIG. 127—Fixed type, has eight integral mounting lugs, drilled for ⅝ inch diameter bolt. Two brass packing glands for cable and two threaded caps for entrance to each section.

FIG. 1012—Swinging type with pipe extension, pipe "A" and "B" is brass, 2 inch size, 2 inches long at "A" and 6 inches long at "B". Other fittings are cast bronze. Light is the same as Fig. 22 above.

FIG.	Cast Bronze Each	Cast Aluminum Each	*Height Overall Inches	Height Lens Inches	Width Light Inches	Size of Bracket Inches	Weight Pounds	
							Bronze	Aluminum
22	\$250.00	\$200.00	30½	7¾	8½	6¼ x 6¼	54	42
127	200.00	150.00	18½*	7¾	**9¼		36	24
1012	350.00	180.00	32	7¾	8½	6	56	44

NOTE—Supplied in special color combinations if required, such as two red or two green lenses also clear or amber lenses at above prices.

Special length of pipe at "A" or "B", price on application.

*Height does not include handle.

**Width is to centers of mounting holes.



LIGHT COLORS AND HORIZONTAL ARCS OF VISIBILITY IN ACCORDANCE WITH "AIDS TO NAVIGATION" REGULATIONS ON LIGHTING FOR BRIDGES



180 DEGREE RED—For piers, axis, abutments, channel sides or channel margins.



180 DEGREE CLEAR—For main channel markers on fixed bridges.



360 DEGREE RED, GREEN OR CLEAR—For sheer booms, isolated piers and obstructions not part of the bridge or bridge approach structure. May be shielded to various degrees as required.



60 DEGREE ALTERNATE RED AND GREEN—For draw span of draw bridges or swing span of through swing bridges. When required for swing span of deck or half-through swing bridges, one red lens is shielded.



360 DEGREE GREEN—For mid-channel or channel center, for span of fixed bridge over a navigable channel.



180 DEGREE GREEN AND RED—For span of single and double-lift bascule bridges. Green when lift span is fully open for navigation, red for all other positions of lift span.

SPARE PARTS FOR BRIDGES AND PIER LIGHTS

Table listing spare parts for bridges and pier lights, including 180 Degree Lenses, 360 Degree Lenses, Cast Bronze Watertight Caps, Rubber Gaskets, Electric Sockets, Socket Supports, Electric Adapters, Oil Founts, Oil Burners, Oil Wicks, and Chimneys, with their respective prices.

AUTHENTIC MARINE TABLE LAMPS ALL SOLID BRASS—WITH ATTRACTIVE FIBRE GLASS SHADES

Presenting an attractive assortment of table lamps designed for those who have a natural love for the sea and vessels that sail upon it, and who desire a nautical atmosphere or motif in their surroundings, be it their home, boat, office, club or eating place.

Manufactured and designed by this country's oldest and most highly regarded manufacturer of navigation lights, these lamps are the real thing, not imitations.

All lenses are true molded fresnels made to government requirements for navigational purposes, in light transmission and color. Colors (Red, Green, Blue, etc.) are molded into the lens, not coated or painted.

All wired and complete with plug.

"Nautilus"



Fig. 1210

"Corsair"



Fig. 1211

"Neptune"



Fig. 1212

Equipped with three way turn switch for light under shade, inside globe or both.

Fig.	Lamp Only Less Shade		Shade Only Each	Height Inches	Diam. Base Inches	Size of Shade Inches	Size of Globe Inches	Weight Pounds
	Polished Brass Each	Chromium Plated Each						
1210	\$40.00	\$48.00	\$10.00	24½	5¾	13x14x12	8	4½
1211	22.50	25.50	6.00	15	4¼	7x10x 8	3¾	2½
1212	27.00	31.00	9.75	19¼	5¾	10x14x10	4¼	3

SHADE SPECIFICATIONS

Fig. 1210 Both Finishes—blue burlap over fibre glass, white cotton rope trim top and bottom.

Fig. 1211 Polished Brass—green fish net over fibre glass, gold trim top and bottom.

Fig. 1211 Chromium Plated—blue fish net over fibre glass, white trim top and bottom.

Fig. 1212 Both Finishes—white linen over fibre glass, red trim top and bottom.

NOTE—ABOVE LAMPS SHIPPED COMPLETE WITH SHADE UNLESS OTHERWISE SPECIFIED.

Height shown above is from base to top of shade. Sizes of shade shown above are 1st, diameter of top; 2nd, diameter of bottom; 3rd, height.

Prices shown above apply to Fig. 1210 with white frosted globe, Figures 1211 or 1212 with clear fresnel lenses.

Fig. 1210 with colored globe (red, green or blue) add \$4.25 each.

Fig. 1211 with colored lens (red, green or amber) add \$1.00 each.

Fig. 1212 with colored lens (red, green or amber) add \$1.80 each.



"Mariner"



Fig. 1213

"Voyager"



Fig. 1214

"Seafarer"



Fig. 1215

"Helmsman"

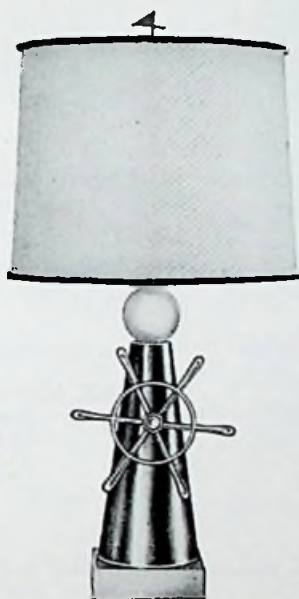


Fig. 1220

"Fog Bell"



Fig. 1268

"Pilot"

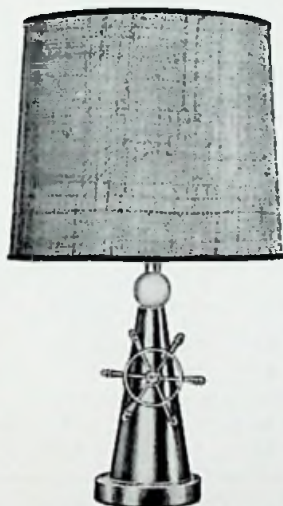


Fig. 1219

Fig.	Lamp Satin Brass Each	Only Polished Brass Each	Less Chromium Plated Each	Shade Only Each	Height Inches	Diam. Base Inches	Size of Shade Inches	*Diameter Wheel Inches	Weight Pounds
1213		\$26.00	\$28.75	\$6.00	15 1/4	5 1/4	7x10x 8		3
1214		21.50	24.50	6.00	15 1/4	5 1/4	7x10x 8		3
1215		21.50	24.50	6.00	15 1/4	5 1/4	7x10x 8		3
1219	\$34.00			8.00	21 1/2	4 3/8	11x12x11	4 3/8	5
1220	49.00			9.75	26 1/4	6	13x14x12	8 1/2	8 3/4
1268		34.00		9.75	25 1/4	11	13x14x12		4

SHADE SPECIFICATIONS

Figs. 1213, 1214, 1215 Polished Brass—green fish net over fibre glass, gold trim top and bottom.
 Figs. 1213, 1214, 1215 Chromium Plated—blue fish net over fibre glass, white trim top and bottom.
 Fig. 1219 Satin Brass—natural color straw over fibre glass, tan straw trim.
 Fig. 1220 Satin Brass—white fish net over fibre glass, red rope trim top and bottom.
 Fig. 1268 Polished Brass—egg shell colored fabric, all fibre glass, gold trim top and bottom.

NOTE—ABOVE LAMPS SHIPPED COMPLETE WITH SHADE UNLESS OTHERWISE SPECIFIED.

Sizes of shade shown above are 1st, diameter of top; 2nd, diameter of bottom; 3rd, height.

*Diameter of wheel is measured from end to end of handles.



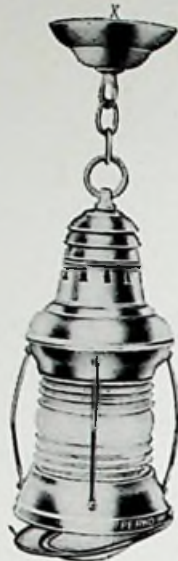
MARINE HOUSE FIXTURES - ALL BRASS

MEDIUM SCREW ELECTRIC SOCKET, ALL WIRED



FLUSH CANOPY
Fig. 1023

No.	Polished Brass Each	Chromium Plated Each
1	\$18.00	\$22.50
2	20.50	25.00



CANOPY AND CHAIN
Fig. 1024

No.	Polished Brass Each	Chromium Plated Each
1	\$18.50	\$23.00
2	21.00	25.50



WALL BRACKET
Fig. 1025

No.	Polished Brass Each	Chromium Plated Each
1	\$20.00	\$24.50
2	22.50	27.00



CANOPY and CHAIN
WHITE FROSTED GLOBE
Fig. 1032

No.	Polished Brass Each	Chromium Plated Each
1	\$30.00	\$35.50
2	33.00	38.50
3	64.00	72.00

No.	Height Lamp Only Inches	Diam. Lamp Inches	Height Lens Inches	Approx. Weight Pounds
1	8 5/8	4 1/2	3 3/4	3
2	11 3/4	5 5/8	4 1/4	4

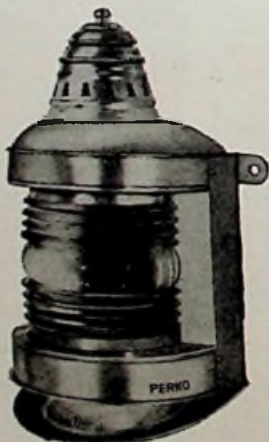
COLORED LENSES

No.	Red	Green	Amber
1			Add Each \$2.00
2			2.40

No.	Height Lamp Only Inches	Diam. Globe Inches	Approx. Weight Pounds
1	11	6	3
2	14	8	4 1/2
3	16 1/2	10	6 1/2

With colored globe No. 1—Red or blue No. 2 and 3—Red, Green or blue. Add \$2.00 each.

Ship's Masthead Light
MEDIUM SCREW ELECTRIC SOCKET



FLAT BACK FOR WALL MOUNTING

No.	Polished Brass Each	Chromium Plated Each	Height Light Inches
1	\$57.50	\$65.00	14
2	78.00	88.00	18 3/4

No.	Width Light Inches	Height Lens Inches	Weight Pounds
1	7	5 1/2	7 1/2
2	9	7 1/2	14

Colored lenses. Red, Green or Amber, add \$11.00 to above prices.

Antique or bank bronze finish price on application.

Fig. 1034

Bulkhead Lantern

CLEAR GLASS PANELS

MEDIUM SCREW ELECTRIC SOCKET



No.	Dimensions Inches
1	7 x 9 1/2 x 13
2	9 x 13 x 17

No.	Galv. Steel Each	Polished Brass Each
1	\$35.00	\$45.00
2	37.00	47.00

Fig. 1045



**Junior
CABIN
LAMP**

Double Swing—Weighted Base
All Brass

Fig. 168

Same construction as our well known Newport Cabin Lamp Fig. 141, but reduced in size for use where space or headroom is limited.

No.	Polished Brass Each	Chromium Plated Each	Overall Height Inches	Extension Inches	Capacity Fount Pints	Weight Ounces
0	\$13.25	\$17.00	9	5	1/2	19



**Philadelphia
CABIN
LAMP**

Double Swing—Weighted Base
Removable Fount—All Brass

Fig. 137

With 2 1/2 inch diameter wall plate, hinge burner Fig. 242 No. 2 and 6 inch chimney Fig. 267 No. 2.

No.	Polished Brass Each	Chromium Plated Each	Overall Height Inches	Extension Inches	Capacity Pints	Weight Pounds
4	\$18.00	\$20.00	14	8 1/2	1 1/2	3 3/4



**Newport
CABIN
LAMP**

Double Swing—Weighted Base
All Brass

Fig. 141

This lamp is of very sturdy construction, refined appearance and minimum practical extension from wall. Diameter of wall plate 2 1/2 inches.

No.	Polished Brass Each	Chromium Plated Each	Overall Height Inches	Extension Inches	Capacity Fount Pints	Weight Pounds
1	\$13.75	\$17.50	10 1/2	5 1/2	1	1 3/4
2	15.75	19.75	12 1/2	6	1 1/4	2

SPARE PARTS FOR CABIN LAMPS

No.	Each
0 and 1 Spare Burners Fig. 231	\$.85
0 and 1 Spare Chimneys Fig. 230	.85
2 and 4 Spare Burners Fig. 242 No. 2	2.90
2 and 4 Spare Chimneys Fig. 267 No. 2	1.38



**Universal
WALL
LAMP**

Tin Plate or Brass

Fig. 312

Has polished reflector and gives excellent illumination. Uses No. 2 size wick.

Polished Tin Each	Polished Brass Each	Spare Chimneys Each	Spare Burners Each	Height of Back of Fount Inches	Diam. of Fount Inches	Weight Pounds
\$6.30	\$8.60	\$1.30	\$1.00	9	5	1 1/2

SMOKE BELL AND ARM

All Brass



Fig. 128

No.	Polished Brass Each	Chromium Plated Each	Diam. Bell Inches	Extension to Center Inches	Weight Ounces
0	\$3.50	\$4.75	3 1/2	3 1/2	3 1/2
1	3.50	4.75	4	3 3/4	4
2	3.50	4.75	4	4	4
4	3.75	5.00	6 1/2	6 1/2	7

No. 0 size is for lamp Fig. 168.

No. 1 and 2 sizes are for lamp Fig. 141.

No. 4 size is for lamp Fig. 137.



Electric CABIN FIXTURES

With Medium Screw Sockets

For 6—12—32 or 110 Volts



Streamline Pattern

Zamak Die Casting—Chromium Plated
With Turn Switch

Fig. 217

Chromium Plated Each	Size Base Inches	Drop Less Lamp Inches	Depth Less Lamp Inches	Weight Ounces
\$2.50	2½ x 2¼	2¼	2½	8

Spare socket with switch, \$.95 each.
Standard Package, 25*



Square Base Pattern

Cast Bronze—With Toggle Switch

Fig. 450

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$5.00	\$5.50	2 x 2	2	2½	12

Spare interior with switch, \$1.00 each.
Standard Package, 12*



Upright Pattern

Zamak Die Casting—Chromium Plated
With Turn Switch

Fig. 225

Chromium Plated Each	Size Base Inches	Length Overall Inches	Projection Less Lamp Inches	Weight Ounces
\$3.65	3¼ x 2¼	5¾	2¾	10

Spare socket with switch, \$.95 each.
Standard Package, 12*



Upright Pattern

Cast Bronze—With Toggle Switch

Fig. 304

Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Projection Less Lamp Inches	Weight Ounces
\$7.25	\$8.00	4½ x 2½	2¾	17

Spare interior with switch, \$1.00 each.
Standard Package, 12*



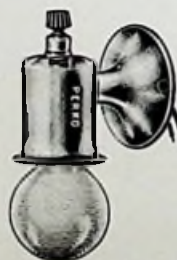
Oval Base Pattern

Zamak Die Casting—Chromium Plated
With Turn Switch

Fig. 1237

Chromium Plated Each	Size Base Inches	Drop Less Lamp Inches	Projection Less Lamp Inches	Weight Ounces
\$3.30	4½ x 1¾	4½	2¾	6

Spare socket with switch, \$.95 each.
Standard Package, 12*



Round Base Pattern

Spun Brass—With Turn Switch

Fig. 308

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$4.00	\$4.75	2½	2½	3	6

Spare socket with switch, \$.95 each.
Standard Package, 12*

PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS, SPECIFY VOLTAGE AND CANDLEPOWER, FROSTED OR CLEAR. ABOVE FIXTURES ARE SUPPLIED NOT WIRED.



SWITCH PANELS

BLACK BAKELITE PANEL—WHITE LETTERING
BRASS, NICKEL PLATED TOGGLE SWITCHES
WITH OR WITHOUT FUSE HOLDERS

All lettering is engraved. "On" position of switch is indicated. Fuse holders are the enclosed type for glass fuses up to 30 amp.

SINGLE SWITCH PANEL



Fig. 516

Supplied complete with any one of the Fig. 519 name plates shown below, please specify.

Without Fuse Holder Each	Size Inches	Standard Package
\$2.25	3 3/4 x 1 1/4	6

5 GANG SWITCH PANEL



Fig. 517

Our stock panel is illustrated. Dealer or user may change name plates as desired as they are removable. For additional selection see Fig. 519. For changes made at factory, add \$1.00 each.

With Fuse Holders Each	Without Fuse Holders Each	With Fuse Holders Size Inches	Without Fuse Holders Size Inches	Standard Package
\$14.50	\$9.00	6 1/2 x 4 1/4	6 1/2 x 3 1/4	6"

Supplied with fuse holders unless otherwise specified.

Ignition Switches, see Fig. 316.
Toggle Switches, see Fig. 745.

Starter—Ignition—Lights SWITCH PANELS

BLACK BAKELITE PANEL—WHITE LETTERING
2 POINT PUSH BUTTON STARTER SWITCH
LOCK TYPE IGNITION SWITCH—TWO KEYS
BRASS TOGGLE TYPE LIGHT SWITCH



Fig. 514

Visible portion of all switches is chromium plated.

Complete Each	Length Inches	Width Inches	Weight Ounces	Standard Package
\$7.50	5	2 1/2	8	6

Starter and Ignition SWITCH PANEL

BLACK BAKELITE PANEL—WHITE LETTERING
TWO POINT PUSH BUTTON STARTER SWITCH
LOCK TYPE IGNITION SWITCH—TWO KEYS



Fig. 518

Visible portion of all switches is chromium plated.

Complete Each	Length Inches	Width Inches	Weight Ounces	Standard Package
\$6.25	4 1/2	2 1/2	5	6

SPARE PARTS

Fuse Holders, \$1.00 each.
Starter Switches, see Fig. 255, all Brass.

In addition to those illustrated, stock name plates are:

Switch NAME PLATES

BLACK BAKELITE—ENGRAVED WHITE LETTERING

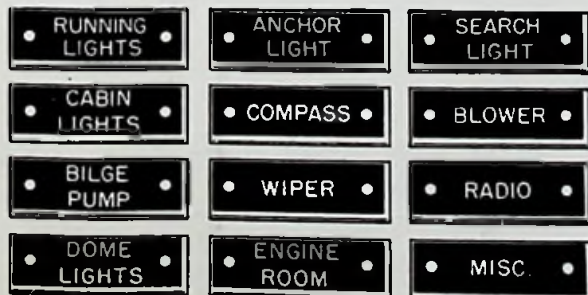


Fig. 519

- Bow Light
- Choke
- Deck Lights
- Fan
- Flood Lights
- Forward
- Fuel Pump
- Heater
- Horn
- Ignition Lights
- Master
- Masthead Light
- Neutral
- Off
- On
- Panel Lights
- Pilot
- Port Light
- Range Light
- Reverse
- Siren
- Spreader Light
- Std. Light
- Starter
- Stern Light
- Switch
- Throttle
- Towing Lights
- 6 Volt
- 12 Volt
- 32 Volt
- 110 Volt

Per Dozen	Length Inches	Width Inches	Weight Per Dozen Ounces
\$4.80	1 1/2	1/2	1/2

Standard Package, 6 Dozen**

Packed one dozen each name per box.
Less than one dozen each name \$.60 each.

Special name plates, price on application. Specify lettering and size.



Improved Push and Pull SWITCHES

ALL BRASS THROUGHOUT — 3/4 INCH KNOB

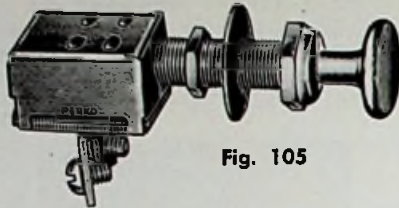


Fig. 105

No.	Chromium Plated Each	Diam. Neck Inches	For Wood Thickness Inches	Length Overall Inches	Diam. Knob Inches	Weight Ounces
1	\$1.25	3/8	1	3	3/4	2
2	1.40	3/8	1 1/4	3 1/4	3/4	2 1/2

Improved Push and Pull SWITCHES

WITH FACE PLATE
ALL BRASS THROUGHOUT — 3/4 INCH KNOB

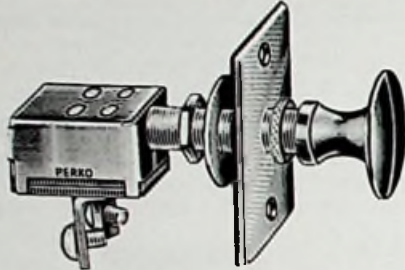


Fig. 216

No.	Chromium Plated Each	Diam. Neck Inches	For Wood Thickness Inches	Diam. Knob Inches	Size Face Plate Inches	Weight Ounces
1	\$1.40	3/8	1	3/4	1 7/8 x 1	2 1/2
2	1.55	3/8	1 1/4	3/4	1 7/8 x 1	3

Toggle SWITCH

ALL BRASS THROUGHOUT
SCREW POSTS—NO LEADS

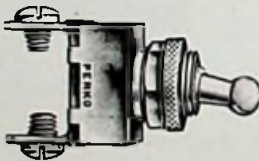


Fig. 688

Nickel Plated Each	Length Neck Inches	Diam. Neck Inches	Between Lock Nuts Inches	Weight Ounces
\$.90	3/8	3/16	1/4	3/8

TOGGLE SWITCH with Face Plate

BRASS WITH BAKELITE INSULATION
SCREW POSTS—NO LEADS



Fig. 718

Chromium Plated Each	Size Face Plate Inches	Weight Ounces
\$1.05	1 1/4 x 1	3/4

Toggle SWITCHES

BRASS WITH BAKELITE INSULATION
WITH 6 INCH WIRE LEADS



Fig. 745

No.	Nickel Plated Each	Length Neck Inches	Diam. Neck Inches	Between Lock Nuts Inches	Weight Ounces
1	\$.75	3/8	3/16	3/8	3/8
2	.80	3/8	3/16	3/8	3/4

No. 2 supplied unless otherwise specified.
With watertight cap and chain, add \$1.00 each.

Momentary Starter SWITCH

OR DASHBOARD HORN BUTTON
PUSH BUTTON TYPE—ALL BRASS

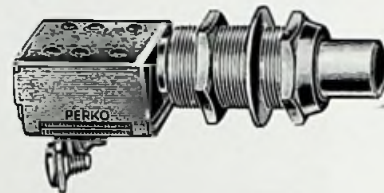


Fig. 255

2 point, 2 terminal spring action switch with chromium plated button.

Each	Diameter Neck Inches	For Wood Thickness Inches	Weight Ounces
\$1.60	3/8	1	2 1/2

Ignition Lock SWITCH

30 AMP. 6 VOLTS—15 AMP. 12 VOLTS
2 TERMINAL—2 KEYS

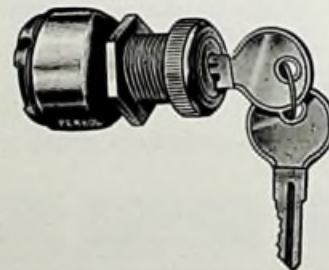


Fig. 316

Brass lock, switch, terminal screws and lock nut. Face plate is chromium plated.

Each	Diameter Neck Inches	Length Neck Inches	Weight Ounces
\$2.15	3/4	3/4	4

Standard Package, Entire Page, 25*

FIGS. 688, 718 and 316 Rated 30 Amp. 6 Volts. Balance of page, 20 Amp., 6 Volts



Knife or Battery SWITCHES

EBONY ASBESTOS BASE—HIGH JAWS
ONE OR TWO POLE
SINGLE OR DOUBLE THROW
250 VOLT D.C.—500 VOLT A.C.

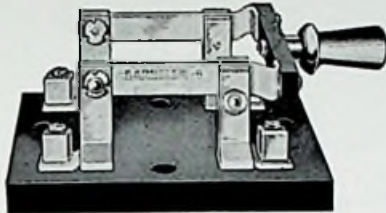


Fig. 191

SINGLE POLE—SINGLE THROW

No.	Each	Amps.	Dimensions Base Inches	Weight Pounds
1	\$ 4.35	60	6¼x1¾x ⅝	¾
2	8.70	100	6¾x2 x ¾	2½
3	15.25	200	10 x3 x1	4

SINGLE POLE—DOUBLE THROW

4	6.95	60	9¼x2 x ¾	2½
5	16.00	100	10 x3 x ¾	4
6	24.95	200	12 x4 x1	8

DOUBLE POLE—SINGLE THROW

7	6.70	60	6 x4½x ¾	3
8	13.00	100	7⅞x5 x ¾	5½
9	23.25	200	9½x6 x1	10½

DOUBLE POLE—DOUBLE THROW

10	10.30	60	9¼x6 x ¾	5¼
11	25.00	100	10¼x7 x ¾	8½
12	36.60	200	15 x7¼x1	16

NEW SAFETY MAIN SWITCH

RED BAKELITE HOUSING—VAPOR PROOF
MULTIPLE POLE



Fig. 85

300 AMPS. IN 6 VOLT.
150 AMPS. IN 12 VOLT.

A heavy duty marine switch completely sealed in a bakelite housing.

Flashing arcs common in open type knife switches are eliminated by this enclosed unit.

No corrosive materials used anywhere in this switch. Contacts are heavy gauge copper. Springs, set screws etc. are stainless steel.

Used for connecting one or more batteries and shutting off all electricity at the source.

Snap action of knob helps positive control of switch when operating same in dark location.

Supplied for flush mounting. Battery cable passes through bulkhead.

Each	Diameter Inches	Depth Inches	Weight Ounces
\$12.50	4¾	1⅝	5

If offset mounting is required, permitting cable to pass in back of housing, we supply a set of offset legs ½ inch long. Per set \$.50.

Standard Package 3

Line SUPPORT CLIPS

ALUMINUM

WITH SYNTHETIC RUBBER CUSHION

Used in the aircraft industry for supporting electrical, fuel, instrument, oil and water lines.



Fig. 163

Single



Fig. 164

Double



Fig. 165

Triple

For O.D. Line Inches	FIG. 163 Per 100	FIG. 164 Per 100	FIG. 165 Per 100	Width Inches
⅜	\$5.75	\$13.30	\$17.25	⅜
¼	5.85	13.30	18.00	¾
⅝	6.25	13.50	19.75	½
¾	6.25	14.25	21.00	½
½	7.00	15.90	24.60	½

Supplied in Boxes of 100 Pieces
Standard Package, 500 Pieces**

Brass CABLE STRAPS

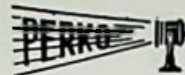
FOR CABLE, TUBING, CONTROL WIRE ETC.



Fig. 121

Inside Diam. Inches	Per 100	Length Inches	Width Inches
⅛	\$2.70	1⅝	½
⅜	3.00	1⅝	½
¼	3.25	1⅝	½
⅝	3.25	1⅝	½
⅜	3.60	1⅝	½
⅞	3.90	1⅝	½
½	4.20	1½	½
⅝	5.00	1¾	½
¾	5.50	1⅞	½

Supplied in boxes of 100 pieces.
Standard Package, 500 Pieces**



RECEPTACLES and PLUGS

YACHT SIZE—VOLTAGES 6 TO 125
WATERTIGHT—CAST BRONZE BOXES

ROUND FLUSH TYPE WITHOUT BOX
5 AMP.—2 WIRE



Fig. 968

	Plug Only Each	Diam. Plate Inches	Depth Inches	Weight Pounds
Complete With Plug Each	\$4.75	2 1/4	3/4	1/2
	\$14.40			

ROUND FLUSH TYPE WITH BOX
5 AMP.—BOTTOM INLET—2 WIRE



Fig. 969

	Plug Only Each	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches	Weight Pounds
Complete With Plug Each	\$4.75	2 1/4	1 1/8	1 1/4	3/4
	\$17.00				

HEAVY DUTY TYPE—10 AMP.—2 WIRE



Fig. 970
Flush Type

Fig. 970 Complete Each	Fig. 971 Complete Each	Plugs Only Each
\$17.50	\$16.50	\$4.75

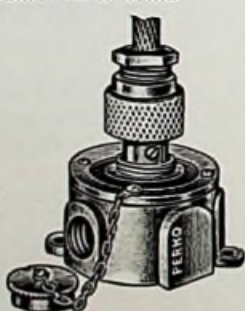


Fig. 971
Surface Type

Diam. Plate Inches	Diam. Box Inches	Weight Fig. 970 Pounds
Fig. 970 3 1/2	Fig. 971 2 3/4	1 1/4

Watertight SNAP SWITCH

FLUSH TYPE OR SURFACE TYPE
CAST BRONZE—10 AMP. 2 WIRE

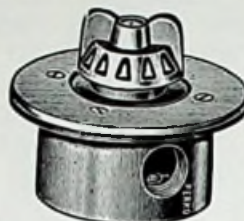


Fig. 974

Ratchet under knob to prevent turning in wrong direction.

	Flush Type	Surface Type	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches	Weight Pounds
Single Pole	\$13.00	\$12.00	4	3	1 1/2	2

Watertight Connection Box

CAST BRONZE—SURFACE TYPE

With 4 wire phenolic connection block and rubber gasket.

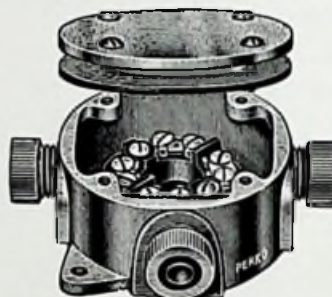


Fig. 1252

Complete Each	Spare Blocks Each
\$10.00	\$2.00

Inside Diam. Inches	Inside Depth Inches	Weight Pounds
3	1 1/8	1 1/4

Price does not include packing glands in illustration.

Ship to Shore CONNECTOR

110 VOLTS—25 AMPS.
ALL BRASS METAL PARTS



Fig. 72

Bakelite base has heavy duty male terminals. Plug is phenolic with bronze female prongs, all rubber covered. Will accommodate No. 10 wire. Plug locks in base. A chained rubber cap for base when disconnected.

Complete Each	Diam. Base Overall Inches	Depth of Base Inches	Diam. Hole Required Inches	Weight Ounces
\$3.00	3 3/8	3/4	1 1/4	5

Plug complete with female interior, each \$2.00.
Spare female plug interior only, each \$0.90.

NOTE: ALL BOXES HAVE ONE 1/2" I.P.S. TAPPING. EXTRA TAPPINGS ADD \$.50 FOR EACH HOLE.
PACKING GLANDS FOR ABOVE \$1.25 EACH.
CHROMIUM PLATED FINISH SUPPLIED TO ORDER, PRICE ON APPLICATION.



Watertight CONNECTION
ALL BRASS — DOUBLE CONTACT

Deck Socket

Plug



Fig. 423



Fig. 425

DECK SOCKET. All brass, double contact, complete with threaded cap and chain as illustrated.

PLUG. All brass, double contact, threaded lock nut for fastening to deck socket, Fig. 423. Threaded cap with rubber gasket inside to prevent water running down cable.

	Chromium Plated Each	Dimensions Inches
Socket Only	\$3.50	1½ x 1¾
Plug Only	2.75	1½ x 1

Spare electric sockets only, see fig. 747, No. 2.

Watertight CONNECTION
ALL BRASS — DOUBLE CONTACT



Fig. 477

Complete as illustrated, with rubber grommet inside cap for cable.

Chromium Plated Each	Composition Interiors Only Per Set	Size Inches
\$4.00	\$.65	1½ x 1¼

Watertight CABLE OUTLET
ALL BRASS — FOR ¾ INCH CABLE



Fig. 424

Has rubber grommet for watertight passage of cable through deck or bulkhead, also prevents chafing of cable insulation.

Chromium Plated Each	Extreme Diameter Inches
\$1.90	1¼

Medium Screw SOCKETS
PHENOLIC — 250 VOLTS — 660 WATTS
APPROVED BY U.S.C.G. AND U.S.M.A.



Fig. 346

With ¼ or ⅜ inch I. P. S. thread.

No.	Each	Size Thread Inches
1	\$.70	¼
2	.70	⅜

No.	Height Inches	Extreme Diameter Inches	Weight Dozen Pounds
1	1⅞	1⅞	1
2	1⅞	1⅞	1

Mogul 3 Wire SOCKET
PHENOLIC — NAVY DRAWING 9-4779-L
600 VOLTS — 1500 WATTS



Fig. 270

For use with double filament bulb Fig. 532.

Each	Height of Inches	C to C of Mounting Holes Inches	Weight Ounces
\$4.00	2⅞	1½	6

With white metal mounting cap tapped ¼ inch I. P. S. add \$.35 each.

SOCKET SUPPORTS

BRASS — ¼ INCH I. P. S. THREAD

Used in Fig. 1150 series Navigation Lights for sockets Fig. 270 and 346.

No. 1 for Lights Sizes No. 1 and 2.
No. 2 for Lights Size No. 3.



Fig. 341

No.	Each	Height of Inches	Size Base Inches
1	\$1.30	1	⅞ x 2¼
2	1.65	2¼	⅞ x 2¼

No.	C to C of Holes Inches	Weight Ounces
1	2¼	1½
2	2¼	3

FUSE PANEL

BAKELITE — BRASS METAL PARTS
FOR GLASS FUSES UP TO 30 AMP.



Fig. 694

For two active fuses and one spare.

Each	Dimensions Inches	Length Fuse Inches
\$.85	2¼ x 1⅜ x 1/8	1¼



Medium Screw SOCKETS PORCELAIN—250 VOLTS—660 WATTS



Fig. 222

No.	Complete Each	Gaskets Only Each	Height Inches	Size Base Inches	C to C of Slots Inches
1	\$.90	\$.12	1 $\frac{3}{8}$	2 x 1 $\frac{1}{4}$	1 $\frac{1}{2}$
2	1.25	.12	1 $\frac{3}{8}$	1 $\frac{3}{4}$ x1 $\frac{1}{4}$	1 $\frac{1}{2}$

No. 1 size is standard.

No. 2 size has special small size base for Figs. 488 and 489 mast lights.

Electric Socket ADAPTERS



Fig. 405

For converting various types of sockets.

No.	Each
650—From Bayonet Dble. Contact to Med. Screw	\$.75
670—From Med. Screw to Bayonet Dble. Contact	.95
680—From Med. Screw to Bayonet Single Contact	.95
830—From Med. Screw to Foreign Bayonet D.C.	1.10
X12—From Mogul to Medium Screw	1.10

Bayonet Double Contact SOCKETS

BRASS CASE—TAPPED $\frac{1}{8}$ INCH I. P. S.

Used in our De-Lite motor boat lights, classes 1, 2 and 3, and various types of dome lights.



Fig. 276

No.	Each	Length Overall Inches	Weight Per Dozen Ounces
0	\$.95	1 $\frac{3}{8}$	7
1	.95	1 $\frac{3}{8}$	8
2	.95	2	11
3	.95	2 $\frac{3}{8}$	14

Size No. 2 available in single contact, price on application.

SOCKET SUPPORT

BRASS—FOR FIG. 276 SOCKET



Fig. 277

Threaded $\frac{1}{8}$ inch I. P. S. Complete with screws for installing.

Each	Height Inches	Size Base Inches	Weight Dozen Ounces
\$.85	$\frac{3}{8}$	$\frac{5}{8}$ x1 $\frac{1}{2}$	6

Bayonet Double Contact SOCKETS BRASS CASE—HARD RUBBER INSULATION



Fig. 747

No.	Each	Length Inches	Weight Dozen Ounces
1	\$.60	$\frac{7}{8}$	5
2	.60	1	5
6	.75	1 $\frac{1}{2}$	8
7	.90	2	9

Outside diameter, all sizes, $1\frac{1}{16}$ inches.

No. 1 Wires enter side, screws in bottom.

No. 2 Wires enter bottom, screws in same side.

Nos. 6, 7 Wires enter side, screws in bottom.

Note—No. 1 used in lights Figs. 563, 1138, 1140, etc.

No. 2 used in pole lights, dome lights, etc.

No. 6 used in class 2 side and bow lights.

No. 7 used in class 3 side and bow lights.

Single contact available price on application

Navy Standard Electric SOCKETS

PHENOLIC INSULATION—BRONZE PARTS



Candelabra Screw
Fig. 15



Bayonet Double Contact
Fig. 76

Fig. 15 complies with Navy Drawing 9-S-2036-L.

Fig. 76 complies with Navy Drawing 9-S-4634-L.

Fig.	Each	Height Inches	Size Base Inches	Weight Dozen Ounces
15	\$.90	1 $\frac{1}{8}$	1x1 $\frac{1}{2}$	12
76	.60	1 $\frac{1}{8}$	1x1 $\frac{1}{2}$	16

Bayonet SOCKETS

PHENOLIC—SINGLE AND DOUBLE CONTACT



Fig. 472

No.	Each	Type	Height Inches	Diam. Base Inches	Weight Dozen Ounces
20	\$1.05	Double contact	1	1 $\frac{3}{8}$	9
21	1.05	Single contact			



Bayonet Double Contact ADAPTER

ALL BRASS



Fig. 458

For adapting oil lights to combination oil and electric. Just remove burner from fount, place collar around threaded portion of burner and replace assembly in oil fount. Consists of double contact bayonet socket, collar and hollow nut.

Per Set Complete \$1.95

Bayonet Double Contact ADAPTER

BRASS AND HARD RUBBER



Fig. 355

For adapting oil fount to electricity. Screw adapter in place of oil burner and punch hole in bottom of fount for cable entrance.

Each	Length Overall Inches	Diam. Thread Inches	Weight Dozen Ounces
\$1.20	1 1/4	7/8	8

Bayonet Double Contact PLUG

HARD RUBBER PLUG
SOFT RUBBER WATERPROOF CAP



Fig. 746

With flush type contact screws, used with sockets Figs. 76, 276, 377, 472, 747.

Fig. 746 Each	Length Inches	Diam. Inches	Weight Dozen Ounces
\$.50	1 1/2	1 5/16	8

Double Contact PLUG AND SOCKET



Fig. 399

Plug and socket insulation is hard rubber. All metal parts are brass.

Per Set	Size Flange Inches	Outside Diam. Socket Inches	Length Socket Inches	Wt. Doz. Oz.
\$1.00	1 1/8 x 1 1/2	1 1/8	1 3/8	14

Double Contact CONNECTORS

HARD RUBBER INSULATION—BRASS CONTACTS WITH SOFT RUBBER WATERPROOF CAPS



Fig. 749

Each	Size Inches	Weight Dozen Ounces
\$.75	1 5/8 x 2 1/2	10

"Midget" CONNECTORS

BAKELITE BODY—BRASS CONTACTS DOUBLE CONTACT



Fig. 26

Designed for use in limited space. Split pins insure a firm positive connection.

Each	Size Inches	Weight Dozen Ounces
\$1.25	3/4 x 1 1/4	6

Fused Line CONNECTOR

MOLDED BAKELITE WITH 20 AMP. FUSE AND WIRE LEADS



Fig. 786

FOR STANDARD GLASS FUSES 1 1/4 INCHES LONG

Each	Length Inches	Diameter Inches	Weight Ounces
\$.50	2 1/8	5/8	3/4



FRESNEL LENSES

FOR SIDE AND COMBINATION LIGHTS
112½ DEGREES

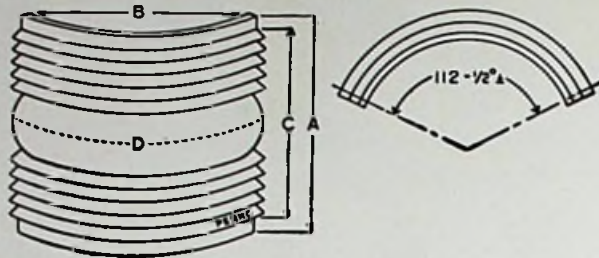


Fig. 259

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Red or Green Each	Amber Each
Class A-L.J.	1½	1¾	1¾	1¾		\$1.10	
Class A Std.	2¾	1¾	2¾	3		1.70	
Class A Spec.	2¾	1¾	2¾	3		1.70	
Class A Rocket	1¾	2¾	1¾	3		1.20	
Class 1	3¾	2¾	2¾	3¾		2.50	\$2.60
Class 2	4¼	3¾	3¾	4¼	\$3.45	3.45	
Class 3	5¾	3¾	4¾	5¾		4.35	

For Vessels Over 65 ft.

No. 8	5½	4¾	4¾	5¾		6.90	
No. 0 or 9	5½	5¾	5	8¾	9.40	9.40	
No. 1 or 10	6¾	6	6	8¾		13.75	
No. 2 or 11	7½	8½	6¾	11¾		18.25	
No. 3	8½	9¾	7¾	13		21.00	

Class A-L.J. For Figs. 1146-1247.

Class A-Std. For Figs. 416-1140-1147-1274.

Class A-Spec. for Figs. 1218-1232-1235-1236.

Class A Rocket For Fig. 1275.

FOR ANCHOR LIGHTS—360 DEGREES

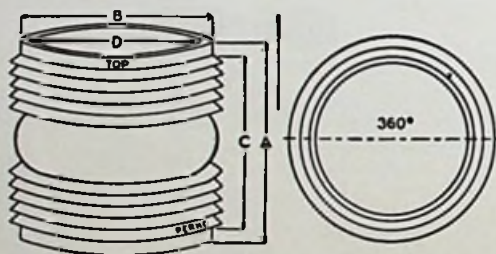


Fig. 261

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Junior	3¾	3¾	2¾	2¾	\$2.50	\$3.35
Senior	4¼	4	3¾	3¾	3.35	5.00

For Vessels Over 65 ft.

No. 0 or 22	5½	5½	5	4¾	9.60	16.50
No. 1 or 22½	6¾	5¾	6¾	4½	14.00	21.00
No. 1½	6¾	6	6	5¾	15.50	22.00
No. 2 or 23	7½	7½	6¾	6¾	16.50	25.00
No. 3	8½	8½	7¾	7¾	21.00	33.00

Colors are red, green, blue or amber.

Sizes Senior, No. 1 and 2 not available in blue.

Sizes No. 1½ and 3 not available in blue or amber.

FOR BOW LIGHTS—180 DEGREES

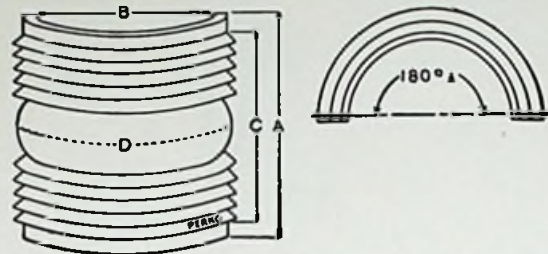


Fig. 260

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Class 1	3¾	2¾	2¾	5¾	\$3.35	\$5.80
Class 2	4¼	3¾	3¾	6¾	3.45	5.95
Class 3	5¾	3¾	4¾	7¾	4.35	7.25
Mld. 59	7¾	6¾	6¾	12¾	16.50	23.00

Colors are red, green, blue or amber.

Mld. 59 not available in blue.

Mld. 59 used in pier and lift span lights for bridges.

FOR MASTHEAD LIGHTS—225 DEGREES

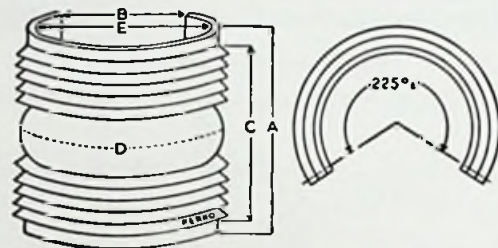


Fig. 256

	A In.	B In.	C In.	D In.	E In.	Clear Each	Colored Each
Int'l	4¼	4	3¾	8¾	3¾	\$4.00	
No. 0	5½	4	5	12¾	4¾	11.50	\$23.60
No. 1	6¾	4	6	12¾	4½	14.80	27.00
No. 2	7½	5¾	6¾	16¾	6½	16.50	31.00
No. 3	8½	6¾	7¾	18¾	7¾	20.30	35.25

Colors are red, green or amber.

Size No. 3 not available in amber.

FOR STERN LIGHTS—135 DEGREES

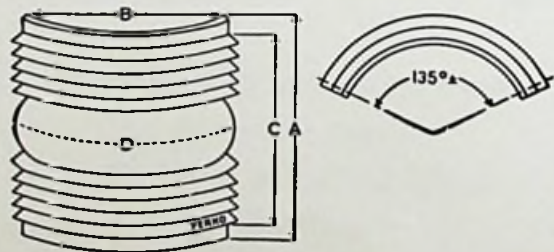


Fig. 269

	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Int'l	4¼	3¾	3¾	4¾	\$3.45	
No. 0	5½	4¾	4¾	7½	9.35	\$13.25
No. 1	6¾	4¾	6¾	7½	10.50	14.25
No. 2	7½	6¾	6¾	10	13.25	21.00
No. 3	8½	7¾	7¾	11¾	16.00	23.60

Colors are red, green, blue or amber.

Size No. 0 not available in blue.

Size No. 3 not available in blue or amber.

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DIMENSIONS SUBJECT TO GOVERNMENT STANDARD TOLERANCES—PLUS OR MINUS



FRESNEL GLOBES

FOR POLE, MAST AND STERN LIGHTS



Fig. 604

Fig. 247

Fig. 248

Fig. 249

Fig. 250

Fig. 251

Fig. 281

FIG.	Clear Each	Red Each	Green Each	Blue Each	Outside Diam. Inches	Height Overall Inches	Diam. Opening Inches	Diam. Thread Inches	Weight Ounces Each
604	\$1.35	\$1.90	\$1.90	\$1.90	1½	1¾	1½	1½	1¾
247	1.50				1¾	2¾	1½	2	3
248	1.50				1¾	2½	1½	2	3
249	2.65	3.75	3.75		3	3¾	2¼	2¾	10
250	1.90	2.50	2.50		2½	2¾	1½	2	6
251	1.90	2.50	2.50	2.50	3	3	1½	2	7
281	1.00				2¾	1¾	1½		2

Figs. 247 - 248 - 250 - 251 - for Lights, Figs. 136, 329, 330, 362, 422, 428, 438, 484, 491, 506, 531, 658, 1233, 1239, 1294.

Fig. 249 for Lights Figs. 103, 104.

Fig. 281 for Figs. 421, 1276, 1293.

Fig. 604 High Intensity for Lights, Figs. 404, 439, 600, 609, 625, 1145, 1148.

Mast Light GLOBES

WITH THREADED BASE

2¾ INCH DIAMETER

For mast lights Figs. 488 and 489.



Fig. 77

Outside diameter	2¾ in.
Height overall	5½ in.
Diameter of opening	1¾ in.
Diameter of thread	2¾ in.
Net weight, each	9 oz.

Clear Each	Red Each	Green Each	Blue Each
\$2.40	\$3.50	\$3.50	\$3.50

3½ INCH DIAMETER

For mast and stern lights, Figs. 83, 112, 113, 145, 309, 1163.



Fig. 106

Outside diameter	3½ in.		
Height overall	5 in.		
Diameter of opening	2¾ in.		
Diameter of thread	3¾ in.		
Net weight, each	1¼ lbs.		
Clear Each	Red Each	Blue Each	Amber Each
\$3.60	\$4.95	\$4.95	\$4.95

Dome Light GLASSES

TRIBED DIFFUSING TYPE

For Dome Lights, Figs. 294, 383 and 555.



Fig. 257

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$1.30	2¾	2¾
4	1.65	4	¾
5	1.90	5	1¼
6	2.20	6	1½

FROSTED TYPE

For Dome Lights Figs. 296, 753.



Fig. 132

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$1.30	2¾	¾
4	1.65	4	½
5	1.90	5	¾
6	2.20	6	¾
8	2.75	7¾	¾

TRIBED OPAL TYPE

For Dome Light Fig. 385.



Fig. 133

Outside Diam. Inches	Each	Extreme Depth Inches
4¾	\$2.75	1¼
5¾	3.00	1¾

NOTE—Spare gaskets for above ball and mast light globes, \$.20 each.

Spare gaskets for above dome glasses and globes, \$.30 each.

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MAZDA LIGHTING BULBS

Miniature Screw or Bayonet Base



Fig. 337

Bulb No.	Diam. Inches	Bulb No.	Diam. Inches
S-6	3/8	90	3/8
C-7	7/8	94	1
T-7	7/8	351	3/16
S-8	1	1130	1
14	3/16	1142	1
55	3/16	1224	3/4
57	3/16	1226	1
64	3/4	1228	1
68	3/4	1483	3/16
82	3/4	1800	3/8
88	1		



Fig. 340

Medium Screw Base

Bulb No.	Diam. Inches	Length Overall Inches
T-10	1 1/4	5 3/4
S-14	1 3/4	3 3/4
A-17	2 1/4	3 3/4
A-19	2 3/4	3 1/4
A-21	2 3/4	4 1/4

Volts	Candle Power	No.	Base	Clear Each
1.35	.06 amp.	1800	Min. Screw	\$.40
1.3	.1 amp.	351	Min. Bayonet	.28
2.5	.15 amp.	S-8	D. C.	1.80
2.5	.3 amp.	14	Min. Screw	.25
6	.04 amp.	1483	Min. Screw	.45
6	1 1/2	55	Min. Bayonet	.18
6-8	3	64	D. C.	.18
6-8	6	82	D. C.	.20
6-8	15	88	D. C.	.37
6-8	21	1130	D. C.	.40
12	2	57	Min. Bayonet	.18
12-16	4	68	D. C.	.20
12-16	6	90	D. C.	.20
12-16	15	94	D. C.	.35
12-16	21	1142	D. C.	.40
32	3	1224	D. C.	.60
32	6	1226	D. C.	.70
32	15	1228	D. C.	.90
110	6 watt	S-6	D. C.	.66
120	10 watt	C-7	D. C.	.60
120	15 watt	T-7	Candelabra	.95

Packed, 10 bulbs to a box.

Volts	Watts	No.	Base	Clear Each	Frosted Each
6	15	A-17	Medium	\$1.05	\$.80
6	25	A-19	Medium		.80
6	50	A-21	Medium		1.00
12	15	A-17	Medium	1.10	.85
12	25	A-19	Medium		.85
12	50	A-21	Medium		1.10
32	15	A-17	Medium	.90	.65
32	25	A-19	Medium		.65
32	50	A-21	Medium		.65
120	25	T-10	Medium	.90	
120	50	A-19	Medium	.55	
120	60	A-19	Medium	.55	
120	100	A-21	Medium	.60	

Packed, 6 bulbs to a package

Please specify, clear or frosted

FOR DOME AND BERTH LIGHTS



Fig. 8

Bulb No.	Diam. Inches	Length Overall Inches	Clear Each
S-11	1 3/8	2 1/2	
6-8	No.	Base	\$.90
12-16	S-11	21 Medium	1.30
32	S-11	15 Medium	1.60
120	S-11	15 Medium	.60

Packed, 6 bulbs to a box



Fig. 532

Two Filament Bulbs MOGUL BASE FOR THREE WIRE SYSTEM 120 VOLTS

Eliminates the method of using two separate bulbs in two light electric installations. Lamps are always properly focused.

Should one filament burn out it will be indicated on the telltale panel, the other filament can be immediately switched into use.

Watts	Each	Height Overall Inches	Diam. Inches
50-50	\$4.50	5	3 3/4
100-100	6.25	5	3 3/4

Mazda Searchlight Bulbs Fig. 24

Volts	Watts	Candle Power	No.	Base	Diameter Inches	Length Overall Inches	Each
6-8		32	RP-11	D. C.	1 3/8	2 3/4	\$.45
6-8		50	RP-11	D. C.	1 3/8	2 3/4	.50
6-8		100	G-16 1/2	D. C.	2 1/4	3	2.20
6-8	108	18 amp.	P-25	Medium	3 1/8	4 1/4	5.25
12-16		32	RP-11	D. C.	1 3/8	2 3/4	.60
12-16		50	RP-11	D. C.	1 3/8	2 3/4	.90
12-16		100	G-16 1/2	D. C.	2 1/4	3	2.20
12-16	216	18 amp.	P-25	Medium	3 1/8	4 3/4	6.00
32		32	RP-11	D. C.	1 3/8	2 3/4	1.40
32		50	RP-11	D. C.	1 3/8	2 3/4	1.90
32	2. amp.	100	G-16 1/2	D. C.	2 1/4	3	2.50
32	3.5 amp.	150	G-16 1/2	D. C.	2 1/4	3	2.50
32	256	8 amp.	P-25	Medium	3 1/8	4 3/4	7.00
120	100		G-16 1/2	D. C.	2 1/4	3	3.75
120	250		T-10	Medium	1 1/4	5 1/2	7.00
120	500		T-20	Medium	2 1/2	5 1/2	9.00
120	1000		T-20	Medium	2 1/2	5 1/2	10.00
120	1000		T-20	Mogul Screw	2 1/2	9	10.50



Hinge BURNERS
ALL BRASS



Fig. 242

Used in all cabin lamps, large running lights, bulk-head lamps, etc.

No. 2 Marcy Hinge Burner.
No. 2A Sun Hinge Burner.

No.	Per Dozen	Diam. Thread Inches	Width Wick Inches
2	\$34.75	1 1/4	3/8
2-A	34.75	1 1/4	3/8

Brass BURNERS



Fig. 246

No.	Per Dozen	Diam. Thread Inches	Width Wick Inches
0	\$5.00	7/8	1/2
1	5.60	7/8	3/8

No. 0 used in Class 1 lights.
No. 1 used in Classes 2 and 3 lights.

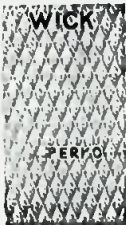


Fig. 302

Flat WICKS

	Per Dozen
Flat Wicks, No. 0, 1/2 inch wide	\$.84
Flat Wicks, No. 1, 3/8 inch wide	.96
Flat Wicks, No. 2, 1/4 inch wide	1.20

Lip or Dual CHIMNEYS



Fig. 267

No.	Per Dozen	Height Inches	Diam. Bottom Inches
2	\$16.50	5	2 1/8
2	16.50	5 1/2	2 1/8
2	16.50	6	2 1/8
2-A	16.50	6	2 1/8

Specify height of chimney when ordering.

Hornet CHIMNEY and BURNER

CLEAR CHIMNEY—ALL BRASS BURNER

Used on Cabin Lamp Fig. 141 Size 1 and Fig. 168 Size 0.



Fig. 230



Fig. 231

Burner used with Flat Wick Fig. 302, No. 0.

Chimneys Per Dozen	Burners Per Dozen	Chimney Size Inches	Burner Thread Inches
\$9.00	\$10.80	4 3/8 x 1 1/2	7/8

Long Time BURNER and CHIMNEY
BRASS

Used in 10 Day Anchor Lights, Fig. 596

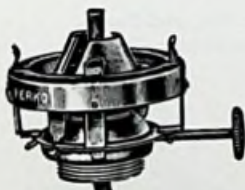


Fig. 245



Fig. 272

Burners Per Dozen	Chimneys Per Dozen	Wicks Per Dozen	Height Chimney Inches	Diameter Chimney Inches
\$30.00	\$21.00	\$2.65	1 1/4	1 1/2

Navy Lantern GLOBES

This globe is standard equipment in Navy lantern, Fig. 49.



Fig. 262

Diameter of top	2 1/2 inches
Diameter of bottom	4 inches
Height overall	6 1/2 inches
Net weight, per dozen	9 pounds
Clear Per Doz.	\$14.00
Red Per Doz.	\$27.00
Green Per Doz.	\$27.00

Colored globes are solid colors, not painted.

Round GLOBES

FOR FIG. 44 GLOBE OR DISTRESS LIGHTS



Fig. 264

Supplied in clear, colored or frosted. Colors are Red, Green or Blue.

Size Inches	Clear Each	Frosted or Colored Each	Diameter		Height Overall Inches
			Top Inches	Bottom Inches	
6	\$5.00	\$9.25	3 1/8	3 1/8	6 3/8
8	8.00	12.25	4	4	7 1/2
10	11.50	16.50	5 1/8	5 1/8	10 3/8

NOTE—6 inch size not available in green.



OIL FOUNTS AND ELECTRIC ADAPTERS

ALL BRASS—FOR LIGHTS CLASS 3 AND SMALLER



Fig. 582



Fig. 588

Delite Type

Fig.	Each	Diameter Inches	Weight Ounces	For Lights Figs.
582	\$2.30	2 3/4	4	01-04-05-08-09
588	3.50	2 3/4	4	01-04-05-08-09

Price of Fig. 582 does not include holder illustrated.

Holder only, \$1.20 each.

Spring Type

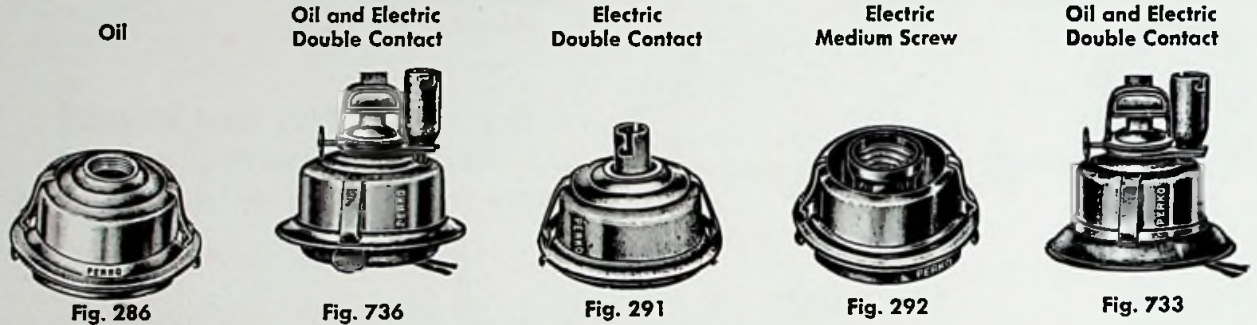


Fig.	Each	Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds	For Lights Figs.
286	\$2.30	3 3/8	3 3/8	2 1/2	06-17-18-19-20-49-408 No. 0 and 44, 8 inch size
291	3.50	3 3/8	3 3/8	3	4-5-06-12-17-18-19-20
292	3.50	3 3/8	3 3/8	3 1/2	06-12-17-18-19-20-49-408 No. 0 and 44, 8 inch size
*733 Oil only	2.30	3 1/2	2 3/8	2	1
733 Oil and Electric	5.00	3 1/2	2 3/8	3 3/4	1
736	5.00	3 3/8	3 3/8	4 1/2	06-17-18-19-20

*Supplied without burner or wick.

Swivel Type

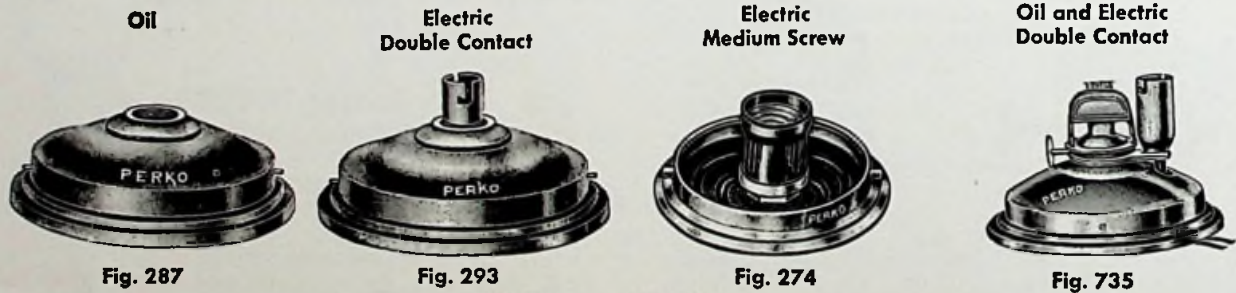


Fig.	Each	Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds	For Lights Figs.
274	\$3.50	4 1/2	4	4	02-11-69 and 44, 6 inch size
287	2.30	4 1/2	4	3	02-69 and 44, 6 inch size
293	3.50	4 1/2	4	4	02-11-69 and 44, 6 inch size
735	5.00	4 1/2	4	4 1/2	02-69

NOTES

- Oil burners and wicks, see Figs. 246 and 302.
- D. C. Electric sockets for Figs. 291 and 293, see Fig. 355.
- D. C. Electric sockets for Figs. 733, 735 and 736, see Fig. 276.
- D. C. Electric sockets and holders for Figs. 733, 735 and 736, see Fig. 458.
- Medium screw sockets for Figs. 274, 292 and 588, see Fig. 346, No. 1.

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OIL FOUNTS AND ELECTRIC ADAPTERS

ALL BRASS—LIGHTS FOR VESSELS OVER 65 FEET LONG

Swivel Type

Oil

Single Electric
2 Wire
Medium Screw

Double Electric
2 Wire
Medium Screw

Electric
3 Wire
Mogul



Fig. 282



Fig. 288



Fig. 289



Fig. 1082

Size No.	Height Fig. 282 Inches	Diameter Overall Inches	Diameter Opening In Light Inches	Fig. 282 Only Each	*Fig. 282 Complete Each	Fig. 288 Each	Fig. 289 Each	Fig. 1082 Each
0	2 $\frac{1}{8}$	4 $\frac{1}{4}$	3 $\frac{3}{4}$	\$3.65	\$8.00	\$5.00		\$8.25
1	3 $\frac{1}{2}$	4 $\frac{3}{4}$	3 $\frac{3}{4}$	3.65	8.00	5.00		8.25
2	4 $\frac{1}{2}$	5 $\frac{1}{4}$	4 $\frac{3}{4}$	5.00	9.30	5.00	\$8.00	8.25

*Complete with Burner, Wick and Chimney

ABOVE ARE FOR THE FOLLOWING LIGHTS

Fount No.	SIDE LIGHTS		MASTHEAD LIGHTS		STERN LIGHTS		ANCHOR LIGHTS		BREAKDOWN LIGHTS	
	Light Fig.	Light Size	Light Fig.	Light Size	Light Fig.	Light Size	Light Fig.	Light Size	Light Fig.	Light Size
0	21	9	982	0	985	0	23	22	84	0
1	21	10	982	1	985	1	23	22 $\frac{1}{2}$	84	1
2	21	11	982	2	985	2	23	23	84	2
0	30	0	983	0	986	0	32	0	129	22
1	30	1	983	1	986	1	32	1	129	22 $\frac{1}{2}$
2	30	2	983	2	986	2	32	2	129	23
0	1155	0	1156	0	1157	0	1158	0	1159	0
1	1155	1	1156	1	1157	1	1158	1	1159	1
2	1155	2-3	1156	2-3	1157	2-3	1158	2-3	1159	2-3

1 Also used in Fig. 44, 10 inch size;

2 Also used in Figs. 29-50-59-68-80

Mounting Brackets

FOR NAVIGATION LIGHTS
GALVANIZED SHEET IRON

No.	Galvanized Each	Width Inches	Height Inches
1	\$1.00	1 $\frac{1}{2}$	4 $\frac{1}{8}$
2	1.40	2	6 $\frac{1}{8}$

No. 1 — For motor boat side and bow lights, Classes 1, 2 and 3.

No. 2 — For larger side lights, sizes 0, 1, 9 and 10.

Fig. 131



Fig. 135

GALVANIZED MALL. IRON

Each	Height Overall Inches	Width Overall Inches	Width Bracket Inches
\$2.90	7 $\frac{1}{2}$	5 $\frac{3}{8}$	2 $\frac{1}{2}$

For large side lights, sizes 2, 3 and 11.

Mounting Sockets

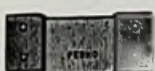


Fig. 25

Galv. Each	Brass Each	Chromium Plated Each	Inside Width Inches
\$.70	\$1.10	\$1.50	1 $\frac{1}{4}$

For mounting Royal Lights Figs. 89 to 99 inclusive.

Electric Adapters

DOUBLE CONTACT SOCKET

FOR ROYAL LIGHTS FIGS. 89 to 99 Inclusive



Fig. 138

Brass Each	Diam. Overall Inches	Opening in Light Inches	Weight Ounces
\$2.00	2 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{2}$

Specify whether for Class 1, 2 or 3.

MEDIUM SCREW SOCKET

FOR ROYAL LIGHTS FIGS. 89 to 99 Inclusive



Fig. 153

Brass Each	Diam. Overall Inches	Opening in Light Inches	Weight Ounces
\$2.35	2 $\frac{3}{8}$	1 $\frac{1}{8}$	2

Color Shield

FOR COMBINATION LIGHTS
DIVIDES RED AND GREEN LENSES

Used on class 1 combination lights, Figs. 01-010-1-3 and 89. If for Fig. 89 please specify.



Fig. 130

Galvanized Each	Polished Brass Each	Chromium Plated Each
\$1.35	\$1.75	\$2.30



"PERKO" SEALED BEAM SEARCHLIGHTS

All Brass — Chromium Plated

With Clear Lens — Not Fluted

- SIZE NO. 1 — 6 AND 12 VOLT — 30 WATT — RANGE ABOUT ¼ MILE — 45,000 BEAM CANDLEPOWER
- SIZE NO. 2 — 6 AND 12 VOLT — 30 WATT — RANGE ABOUT ½ MILE — 95,000 BEAM CANDLEPOWER
- SIZE NO. 3 — 6 AND 12 VOLT — 100 WATT — RANGE ABOUT ½ MILE — 200,000 BEAM CANDLEPOWER
- SIZE NO. 3 — 32 VOLT — 200 WATT — RANGE ABOUT ¾ MILE — 260,000 BEAM CANDLEPOWER

A "SEALED BEAM" unit consisting of the bulb, reflector and lens all in one piece is the most practical for marine searchlights. It is absolutely watertight and vibration proof.

A watertight packing gland is installed around control rod to prevent entrance of water where rod passes through pilot house roof.

Deck Control

WITH TOGGLE SWITCH IN HEAD
WIRING NOT VISIBLE

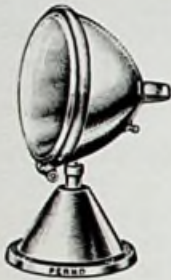


Fig. 454

No.	6 Volt Each	12 Volt Each	Diam. Lens Inches	Diam. Base Inches	Height Above Deck Inches	Weight Pounds
1	\$20.50	\$21.00	4½	3½	7⅝	1¼
2	22.00	22.50	6	4⅝	9	1¾
3	38.00	38.50	7	6¼	13	4

For 32 volt, size No. 3 only, add \$5.50.

Pilot House Control

WIRING NOT VISIBLE



Fig. 437

Length of control below base, 8 inches.

No.	6 Volt Each	12 Volt Each	32 Volt Each
1	\$39.50	\$40.00	
2	41.50	42.00	
3	55.50	55.50	\$60.00

Side Control

WITH TOGGLE SWITCH IN HEAD



Fig. 452

The head swivels and tilts to various positions, the bracket can be mounted in any position. Countersunk on both sides.

No.	6 Volt Each	12 Volt Each	Diameter Lens Inches	Width Bracket Inches	Height Overall Inches	Weight Pounds
1	\$23.50	\$24.00	4½	4¾	9½	2
2	25.00	25.50	6	4¾	11	2½

No.	Diam. Lens Inches	Diam. Base Inches	Height Above Deck Inches	Weight Pounds
1	4½	4¾	8¾	2¾
2	6	4⅝	10¼	3
3	7	6¼	13½	5



New Remote Control SEARCHLIGHTS

FOR CABIN ROOF MOUNTING
FOR OPERATION FROM FLYING BRIDGE
BRASS—CHROMIUM PLATED
SEALED BEAM—6 OR 12 VOLTS

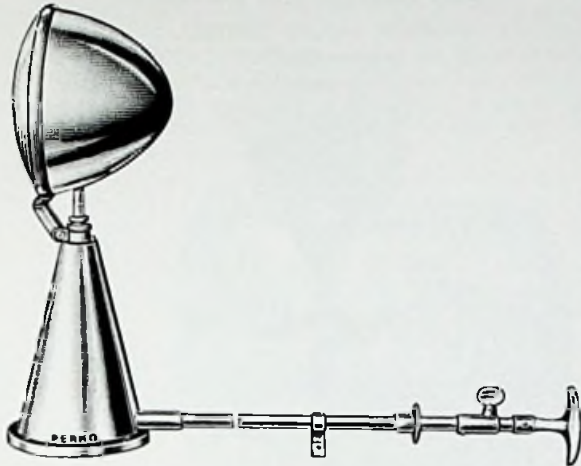


Fig. 283

This new searchlight is designed for mounting forward on cabin roof and for operation from steering position of the flying bridge.

One control handle directs the beam in the horizontal and vertical direction without effort and with positive hold control.

Supplied complete with one rod stanchion, a windshield bearing and a clamp for holding head in fixed position.

Length of control rod, 48 inches

6 Volt Each	12 Volt Each	32 Volt Each	Diam. Lens Inches	Diam. Base Inches	Height Overall Inches	Weight Pounds
\$82.00	\$82.50	\$87.50	7	6	16 1/4	5 1/2

For longer control rod add \$3.00 for each 12 inches or fraction thereof.

Extra rod stanchions \$2.50 each.

Remote Control SEARCHLIGHTS

FOR OPERATION FROM DASH
BRASS—CHROMIUM PLATED
SEALED BEAM—6 OR 12 VOLTS

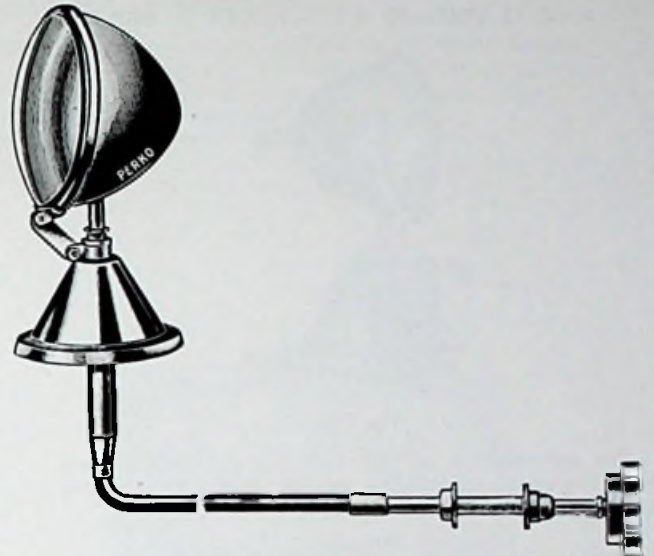


Fig. 241

These operate with extreme ease in both the vertical and horizontal range by an effortless twist or pull of the attractive control handle on the dash.

The light may be mounted at any desired location on the deck.

The control casing is galvanized steel with okoseal rubber covering which protects the casing against corrosion and acts as a grease retainer.

No.	Diam. Lens Inches	Height Above Deck Inches	Diam. Base Inches	Weight Pounds	
	1	4 1/2	10 1/2	5 1/4	2 1/2
2	6	12	5 1/4	3	
		With 30 Inch Control		With 40 Inch Control	
No.	6 Volt Each	12 Volt Each	6 Volt Each	12 Volt Each	
1	\$43.00	\$44.50	\$46.00	\$47.50	
2	44.30	45.80	47.30	48.80	

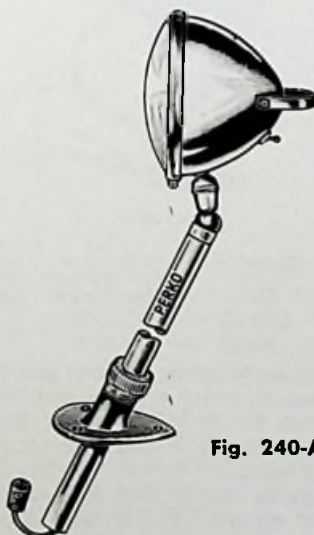


Fig. 240-A

Adjustable SEARCHLIGHT

BRASS—CHROMIUM PLATED
SEALED BEAM—6 OR 12 VOLTS
STREAMLINE BASE

For Mounting Forward or Aft of Windshield

Adjustable to various heights. From under the searchlight head to the deck, maximum 17 inches, minimum 3 inches, measured vertically.

Knurled nut and washer holds staff at desired height.

Angle of staff from deck is 68 degrees. Complete with toggle switch.

No.	6 Volt Each	12 Volt Each	Diam. Lens Inches	Diam. Base Inches	Weight Pounds
1	\$29.00	\$29.50	4 1/2	3 3/8 x 2 1/4	2 1/8
2	32.00	32.50	6	3 3/8 x 2 1/4	2 3/8



Combination LIGHT and SEARCHLIGHT

ALL BRASS—CHROMIUM PLATED
SEALED BEAM SEARCHLIGHT

6 OR 12 VOLT—30 WATT—RANGE ¼ MILE



Fig. 416

The searchlight is our 4½ inch diameter sealed beam type. The combination light is our Fig. 1140 with rebulbing feature. The searchlight has a toggle switch.

6 Volt Each	12 Volt Each	Height Overall Inches	Size Base Inches	Weight Pounds
\$32.00	\$32.50	9	3¼x6¼	2¼

Hand SEARCHLIGHT

BRASS—CHROMIUM PLATED
SEALED BEAM—PISTOL GRIP

PUSH BUTTON SWITCH—8 FT. COILED CORD
WITH DOUBLE CONTACT OR CIGAR LIGHTER PLUG



Fig. 440

Has sealed beam spotlight unit, range about ¼ mile. Supplied with ring on handle for hanging.

Volts	Each	Diameter Lens Inches	Weight Pounds
6	\$23.25	4½	2
12	23.75	4½	2

Supplied with cigar lighter plug unless otherwise specified.

"Sunbeam" SEARCHLIGHTS

WITH GLASS MIRROR REFLECTOR
6 OR 12 VOLT—50 CANDLEPOWER
BAYONET DOUBLE CONTACT SOCKET
ENCASED WIRING—FOCUSING DEVICE
WATERTIGHT GLANDS AT CABLE
AND CONTROL ROD ENTRANCES

PILOT HOUSE CONTROL



Fig. 306

No.	Polished Brass Each	Chromium Plated Each	Diam. Inches	Diam. Reflector Inches	Height Above Deck Inches	Diam. Base Inches
3	\$105.00	\$120.00	8	7¼	14	5½
4	113.00	128.00	8	7	14	5½

Length control rod below base, 10 inches.

No. 3 has parabolic mirror reflector, range about ½ mile.

No. 4 has mangin mirror reflector and 100 C. P. bulb, range about ¾ mile.

DECK CONTROL
WITH TOGGLE SWITCH IN HEAD



Fig. 305

No.	Polished Brass Each	Chromium Plated Each	Diam. Inches	Diam. Reflector Inches	Height Above Deck Inches	Diam. Base Inches
3	\$73.00	\$83.50	8	7¼	14	5½
4	79.50	90.00	8	7	14	5½

No. 3 has parabolic mirror reflector and 50 C. P. bulb.

No. 4 has mangin mirror reflector and 100 C. P. bulb. Spare Reflectors, No. 3, \$10.00. No. 4, \$12.00 each.

Figs. 305 and 306 size 3 with 6 or 12 volt 100 C. P. bulb, add \$2.00 each.

Both sizes with 32 volt 50 C. P. bulb, add \$1.75 each.

Both sizes with 32 volt 100 C. P. bulb, add \$2.50 each.



"Perko" High Power SEARCHLIGHTS

WITH MIRROR REFLECTOR—MEDIUM SCREW SOCKET

VOLTAGE—6, 12, 32, AND 120 VOLTS

PACKING GLANDS AT CABLE AND CONTROL ROD ENTRANCES

BODIES—are constructed of heavy wrought brass; stands, yokes, and control mechanism are all cast bronze.

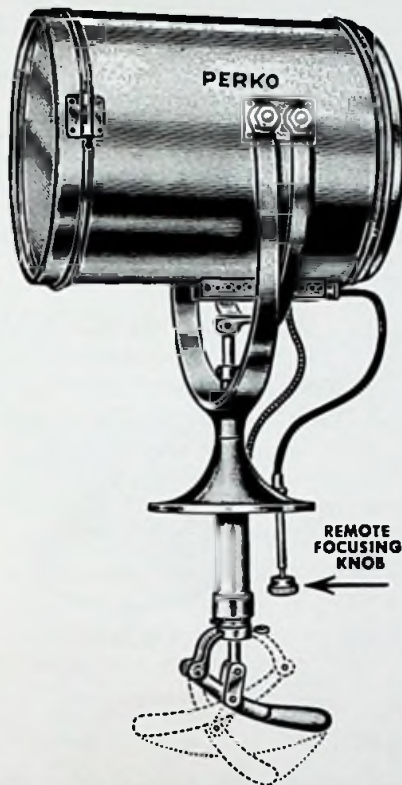
REFLECTORS—a glass mirror reflector, which projects a highly concentrated beam of light a great distance.

FOCUSING DEVICE—new remote control type, diameter of beam can be changed from inside pilot house.

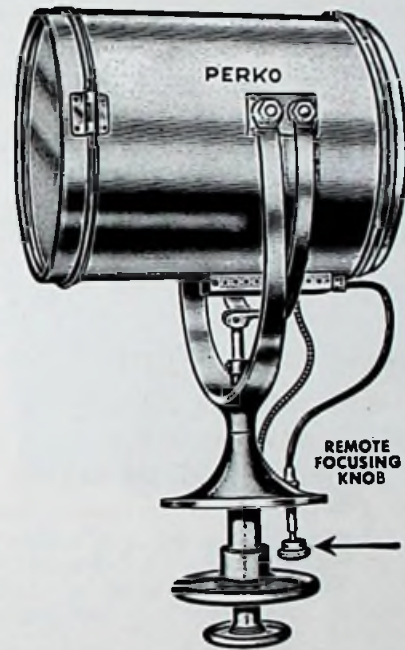
PILOT HOUSE CONTROLS—are of the wheel or lever type, both having their distinct advantages.

WIRING—enclosed in flexible metal hose, fully protected from weather.

BULBS—Bulbs furnished as standard equipment in various voltages are as follows—6 volts, 18 amps.; 12 volts, 18 amps.; 32 volts, 8 amps.; 120 volts, 500 watt. Can also furnish 120 volts, 250 or 1000 watt bulbs for additional price. See notes below.



LEVER CONTROL



WHEEL CONTROL

Fig. 297

Size Inches	Polished Brass Each	Chromium Plated Each
8	\$240.00	\$270.00
10	270.00	300.00
12	325.00	360.00
14	390.00	425.00

Fig. 529

Size Inches	Polished Brass Each	Chromium Plated Each
8	\$265.00	\$295.00
10	295.00	325.00
12	350.00	385.00
14	415.00	450.00

Size Inches	Diameter Reflector Inches	Spare Reflectors Each	Range	Beam Candle Power	Length of Body Inches	Clearance of Glass in Door Inches	Height Above Deck Inches	Diameter of Base Inches	Weight Pounds
8	8	\$20.00	up to ¾ mile	350,000	12¾	7¾	19	6¾	30
10	10	22.00	up to 1 mile	590,000	14¾	9½	21	6¾	34
12	12	27.50	up to 1½ miles	700,000	17	11¾	24	6¾	41
14	14	37.50	up to 2 miles	850,000	19	13¾	26	8¾	56

NOTES

With 120 volt 250 watt bulb, add \$2.00 each.
 With 120 volt 1000 watt mogul screw bulb (special construction) in 12 or 14 inch sizes only, add \$40.00 each.
 Spare bulbs, lenses, etc. See pages 62 and 70.
 Standard length of control below base, Fig. 297 all

sizes, from base to fulcrum of handle, 8 inches. Fig. 529 all sizes from base to center of upper wheel rim, 6½ in. Special length of pilot house control on Fig. 297 only to order, price on application.
 Spare medium screw sockets, \$1.20 each.



FLOODLIGHTS

WEATHERPROOF — WITH MOGUL SOCKET

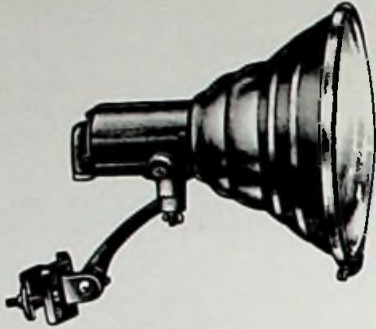


Fig. 227

With polished spun aluminum reflector and heat resisting glass lens. Cast aluminum bracket, spun aluminum housing.

For mounting on wall, cross arm or pipe up to 2½ inches.

Each	Spare Lens Each	Spare Rims Each	Diam. Lens Inches	Length Housing Inches	Maximum Wattage	Weight Pounds
\$26.50	\$7.35	\$4.50	12	14	500	7

DECK TYPE

with Medium Screw Socket



Fig. 228

With aluminum enameled reflector and weatherproof sealed lens. Gray tone enamel exterior and 6 foot approved cord and plug.

Each	Diam. Lens Inches	Length Housing Inches	Diam. Base Inches	Maximum Wattage	Weight Pounds
\$8.80	7½	8	4½	100	3

Spare lenses with gasket, each \$4.00.

Spare rim for lens, each \$2.20.

FRONT LENS

FOR SEARCHLIGHTS



Diam. Inches	Each	For Searchlights Fig. and Size
7¾	2.50	305-306
8¾	2.75	297-529—8 inch
10¾	3.15	297-529—10 inch
12¾	4.30	297-529—12 inch
14¾	5.00	297-529—14 inch

Fig. 429

Spreader FLOODLIGHT

ALL BRASS — CHROMIUM PLATED
SEALED BEAM — 6 OR 12 VOLTS



Fig. 268

A fully watertight unit for flood-lighting decks, anchorages, docks or sails.

Each	Diameter Overall Inches	Depth Inches	Size Mounting Plate Inches	Weight Pounds	Standard Package
\$11.85	4¾	4¼	6 x 1	1¼	6"

Specify voltage, 6 volt supplied unless otherwise specified.

Spreader FLOODLIGHT

ALL BRASS—CHROMIUM PLATED
DOUBLE CONTACT BAYONET SOCKET
WITH 6, 12 OR 32 VOLT—15 C.P. BULB



Fig. 254

Each	Diameter Reflector Inches	Depth Inches	Size Mounting Plate Inches	Weight Ounces	Standard Package
\$10.50	4¾	3½	6 x 1	8	6"

Specify voltage, 6 volt supplied unless otherwise specified.

Sealed Beam SPOTLIGHT UNITS

6 OR 12 VOLTS

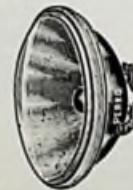


Fig. 433

This sealed, all glass unit is used in the searchlights on the preceding pages. The lens is hermetically sealed to the reflector. Dirt and moisture are positively excluded. The reflector cannot tarnish.

No.	6 Volt Each	12 Volt Each	32 Volt Each	Diam. Lens Inches	Watts	Range About
1	\$2.85	\$3.75		4½	30	¼ mile
2	3.00	3.75		6	30	½ mile
3	6.50	6.50		7	100	½ mile
3			\$10.35	7	200	¾ mile



Lucite PARALLEL RULES
TRANSPARENT
WITH BRASS, CHROMIUM PLATED BARS

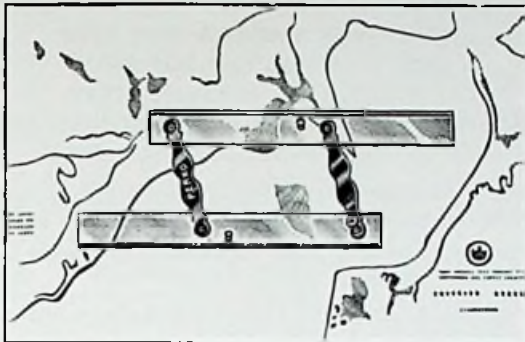


Fig. 630

A new transparent rule of heavy lucite through which the chart data can be easily seen. Supplied with finger grips and tightening device.

Length Closed Inches	Each	Width Closed Inches	Weight Ounces
12	\$8.25	2½	5
15	9.95	2½	6½
18	11.80	2½	7½

PARALLEL RULES

EBONY FINISH—BRASS, NICKEL PLATED PARTS

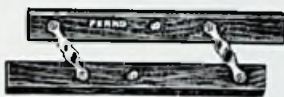


Fig. 686

Length Closed Inches	Each	Width Closed Inches	Weight Ounces
12	\$5.60	2½	6
15	6.25	2½	6½
18	7.00	2½	7

DIVIDERS

BRASS—NICKEL PLATED—NAVY TYPE



Fig. 693

No.	Description	Price
1	Length, 5½ inches, each	\$1.25
2	Length, 7 inches, each	3.75

CHART CASES



Fig. 372

Made of galvanized iron or sheet copper, water-tight cover, folding handle on side for carrying.

Diam. Inches	Length Inches	Galv. Each	Copper Each
3	36	\$9.00	\$18.00
4	36	11.00	21.50

Improved COURSE PROTRACTOR
INDICATES COURSE AND REVERSE COURSE
TRANSPARENT

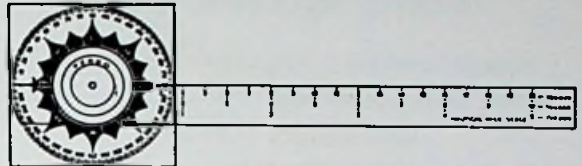


Fig. 706

Arm has various mileage scales used on all coastal and harbor charts.

Arm extended on short end to show reverse course.

A precision instrument, accurate in detail. Positions, depths, etc., are clearly visible when covered by protractor.

Each	Extreme Length Inches	Diam. Compass Card Inches
\$3.25	21½	6¾

Yacht LOG BOOKS

100 PAGES



Fig. 708

In addition to pages for log data, these books contain useful information such as extracts from Bowditch Practical Navigator on symbols for weather, state of sea, cloud formations, force of wind, guest log and marine telephone log.

- No. 1 Binding: Imitation leather, pebble finish, starboard green color, gold letters, without gold border. Each\$4.35
- No. 2 Binding: Imitation leather, pebble finish, pilot blue color, gold letters and gold border. Each\$4.50

Electric COMPASS LIGHT

BRASS—CHROMIUM PLATED



Fig. 707

To be mounted on compass box for illuminating compass at night. A shield is furnished over the bulb to eliminate glare. Shield has small hole sufficient to illuminate proper portion of compass card.

Chromium Plated Each	Height Overall Inches	Weight Ounces
\$4.50	8	5

NOTE—Shield will accommodate a G-6 bayonet D.C. bulb 6, 12 or 32 volt.



"PERKO"

MONEL ALCOHOL STOVE

2 BURNER—PRESSURE TYPE—WITH REMOVABLE TRAY
 MONEL METAL BODY AND TRAY—NATURAL FINISH
 CAST BRONZE BURNERS
 BRASS, CHROMIUM PLATED GUARD RAIL

CONSTRUCTION — of heavy gauge monel metal. Satin finish.

BURNERS — Cast bronze with slotted manifold producing intense heat.

TRAY — An integral part of front apron, readily removable for cleaning but will not rattle. It insulates the fuel tank from heat. Sheet asbestos is affixed to its bottom. Tray cannot slide out when boat is heeled.

GUARD RAIL — Brass, chromium plated. Front section is removable to accommodate large pots and pans.

AIR PRESSURE GAUGE — Accurate and easy to read; it shows best working pressure.

PRESSURE PUMP — All brass, knob locks into pump, cannot back out under back pressure.

FILLER CAP AND AIR ESCAPE VALVE — Inside of front apron, but readily accessible.

FUEL TANK — 1½ gallon capacity, rectangular shape and hidden by front apron, fully insulated from heat of burners.

FUEL CONSUMPTION — Using a good grade of "Burning Alcohol," both burners will operate continuously for 14 hours on one gallon of fuel and one pound of air pressure.

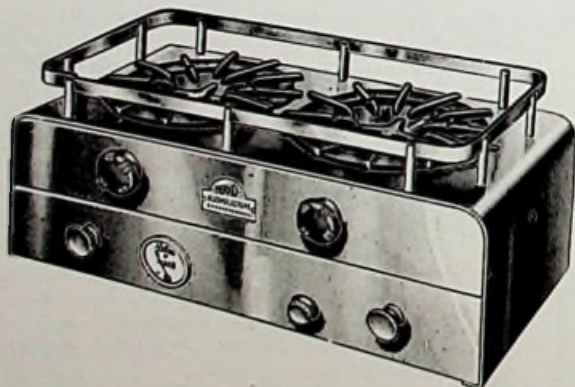


Fig. 364

Complete Each	Extreme Length Inches	Extreme Width Inches	Extreme Height Inches	Weight Pounds
\$99.50	20½	12	8½	27

Above price includes a Fig. 365 funnel for filling.

"PERKO"

STAINLESS STEEL ALCOHOL STOVE

SATIN FINISH STAINLESS STEEL BODY
 CAST ALUMINUM FLAT TOP GRATE
 STAINLESS STEEL REMOVABLE TRAY
 CAST ALUMINUM BOTTOM WITH FASTENING LUGS
 SATIN FINISH REMOVABLE BRASS RAILS

Round, Stainless Steel Tank—1¾ quarts capacity. Air Pressure Gauge—Easy to read for best working pressure.

Pressure Pump—All Brass, Knob Locks to prevent back-out under pressure.

Cast Bronze "Hy Heat" Burners with Bakelite Knobs.

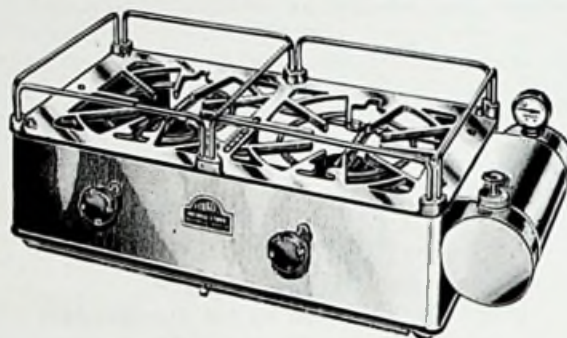


Fig. 334

Each	Extreme Length Inches	Extreme Width Inches	Extreme Height Inches	Weight Pounds
\$89.50	25½	13	8¼	20

"Galley Slave"

GRAVITY ALCOHOL STOVE

WHITE VITREOUS ENAMELED BODY—BRASS GUARD RAILS
 BRASS BURNERS—BRASS FUEL TANK

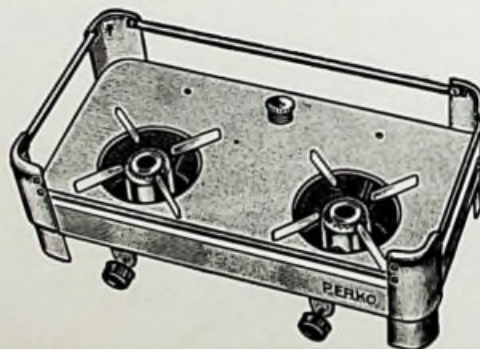


Fig. 376

The Fuel Tank is underneath out of sight, filled through filler cap located on top behind burners. An economical and easy to operate stove, no pumping necessary. Just preheat burners then operate with knobs like stove at home. Has an intense blue flame with remarkable heating ability.

Each	Length Overall Inches	Width Overall Inches	Height Overall Inches	Weight Pounds
\$26.25	19½	11	6½	6½



“PERKO” MONEL BOTTLED GAS STOVE

FOR USE WITH PROPANE OR BUTANE L. P. GAS

2 BURNER — WITH REMOVABLE TRAY

MONEL METAL BODY AND TRAY — SATIN FINISH

COLD FORGED ALUMINUM CENTER SIMMER BURNERS

BRASS, CHROMIUM PLATED GUARD RAIL AND POSTS

BLACK PLASTIC CONTROL KNOBS AND TRAY HANDLE

The last word in convenience, practicability and good looks with many of the faults of older models eliminated. No enamel to chip, crack or discolor. Monel metal is rich looking, easily cleaned and is non-corrosive.

THE BURNER is especially unique, in fact it's two burners in one. The outer rim is a high speed cooking burner for quick broiling, frying, etc. There is also a tiny, inner, economical simmer burner which maintains the cooking while using only a fraction of the gas usually consumed with ordinary single burners and it can be used independently of the starting burner; no other type of burner possesses this decided advantage. The center simmer burner provides exactly the right heat for every cooking requirement from the full fire power of the starting burner to the mere beads of flame of the "keep-warm" position of the center simmer. All controlled by the one control knob.

EASY CLEANING — The burner cap can be removed in less than one second.

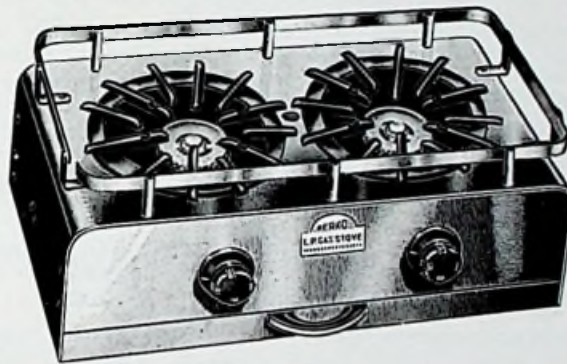


Fig. 373

Complete Each	Extreme Length Inches	Extreme Width Inches	Extreme Height Inches	Weight Pounds
\$86.00	20 $\frac{3}{4}$	12	8 $\frac{1}{2}$	25

BOTTLED GAS STOVE EQUIPMENT

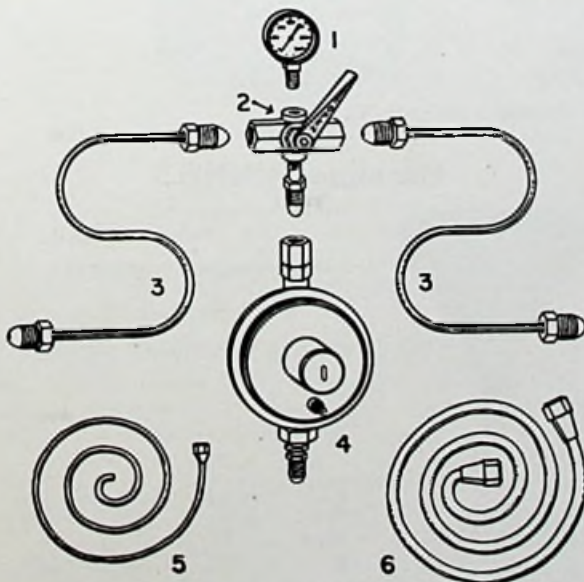


Fig. 374

No.	Description	Each
1	Polished Brass Pressure Gauge	\$ 4.60
2	Forged Bronze Two Way Valve Manifold with Indicating Handle	16.00
3	Pigtails (Tank Connections)	2.80
4	Pressure Regulator with Relief Valve and Mounting Brackets	11.50
5	1/4 inch Copper 10 Foot Vent Line with One Fitting	4.50
6	1/2 inch Copper 20 Foot Fuel Supply Line with Two Fittings	13.50
7	Plugs for Manifold	2.60

Note — The above Manifold item No. 2 and Regulator item No. 4 is listed by the Underwriters Laboratories.



"Perko" ALCOHOL BURNER CAST BRONZE



Each

Fig. 367 Burner for Fig. 364 Stove	\$16.00
Fig. 367-A Burner for Fig. 334 Stove	16.00
(Priming Pan and Filter Not Included)	
Wire Brush Filters Only	2.40
Priming Pan Only	1.50
Packing Nut for Valve Stem .....	.45
Grates only for Stove	2.40

Hot Air CABIN HEATER CAST ALUMINUM BODY 6 OR 12 VOLTS

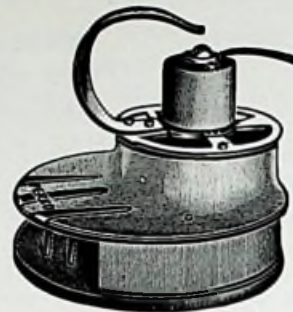


Fig. 595

Now you can use your galley stove to heat your boat. Works equally well on gas, alcohol, kerosene, coal or any other type of stove.

This Hot Air Heater takes the heat from the stove and distributes it to all corners of the cabin. This blast of hot air will heat the average cabin in a few minutes and maintain a comfortable temperature as long as required.

Just place the heater on the stove over the burner, connect electric fan wires to battery, light the stove and in a few minutes the cabin will be as comfortable as you want it.

Volts	Each	Amperes	Diam. Inches	Height Inches	Weight Pounds
6	\$30.00	1.5	8½	7	9½
12	30.00	.75	8½	7¼	9¼

Specify Voltage When Ordering

Standard Package, 6***

Alcohol Stove Parts

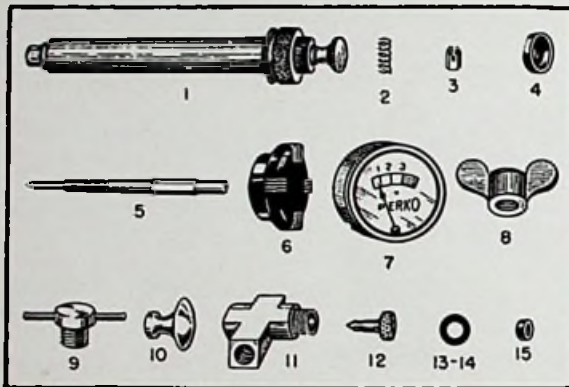


Fig. 368

No.	Each
1 Fuel Tank Air Pump complete	\$3.75
2 Pump Check Valve Spring .....	.40
3 Pump Check Valve .....	.60
4 Leather Plunger for Pump .....	.40
5 Needle Valve Stem .....	.85
6 Plastic Control Knob	1.00
7 Air Pressure Gauge	3.00
8 Wing Nut for Filter Entrance .....	.85
9 Filler Cap for Fuel Tank	1.25
10 Knob for Removable Tray .....	.85
11 Fitting for Fuel Supply Line	1.20
12 Screw for Air Escape Valve .....	.40
13 Lead Gasket for Wing Nut No. 8 .....	.30
14 Lead Gasket for Filler Cap No. 9 .....	.30
15 Graphite Packing for Valve Stem .....	.12

Offset FUNNEL

HEAVY GAUGE ZINC
BRASS STRAINER



Fig. 365

Designed primarily for filling our stoves, this funnel is a handy one for various purposes on a boat, at home or in a garage.

Each	Capacity Ounces	Diam. Mouth Inches	Diam. Spout Inches	Weight Ounces
\$3.00	3	3	¾	2

Standard Package, 12

POT HOLDERS ALL BRASS—CHROMIUM PLATED



Fig. 369

Made for attachment to our alcohol stoves Figs. 344 and 364. Adjustable on the stove for various sizes of pots, pans, etc.

No.	Per Pair	Length Centers of Rail Inches	Weight Per Pair Ounces
1	\$4.50	9¾	7½
2	4.50	10½	8

Size No. 1 is for older models of Fig. 364 stove.

Gasoline FUNNELS



Fig. 81

GALVANIZED SHEET STEEL
WITH No. 100 MESH
BRONZE REMOVABLE STRAINER

No.	Each	Diam. Top Inches	Height Inches	Capacity Pints	Weight Ounces
1	\$2.50	6¾	7	1	6
2	2.95	8	8½	2	8

Standard Package, 12*



Marine EXHAUST BLOWERS
CAST ALUMINUM HOUSING



Fig. 778

For removing dangerous gasoline fumes from the bilge and engine room, exhausting excess heat and cooking odors from the galley. Getting rid of foul air or odors from cargo holds and bilges.

An absolute necessity to the motor boat because their use decreases the hazard of fires and explosions from gasoline fumes.

No.	Size Intake Inches	Size Outlet Inches	Dimensions Overall Inches	Capacity Cubic Feet Per Minute	Size Flange Inches
1	3	2½	7½x6x6	90	3½x3½
2	4	4	8½x8x8	186	4½x4½

Volts	No. 1 Each	No. 2 Each	Amperes	Horsepower
6	\$23.25	\$34.00	8.0	1/40
12	23.25	34.00	4.0	1/40

Standard Package, 6**

A caution plate is furnished with every Blower.

EXHAUST BLOWERS For Bilge Installation

FULLY ENCLOSED SPARKPROOF MOTOR
CAST ALUMINUM HOUSING



Fig. 791

A blower that may be installed in the bilge without fear of sparks igniting gasoline fumes.

Motor enclosed in brass cover. Shaft passes through a Neoprene seal and electric cable enters cover through a watertight packing gland.

No.	Size Intake Inches	Size Outlet Inches	Dimensions Overall Inches	Capacity Cubic Feet Per Minute	Flange Inches
1	3	2½	7½x6x6	90	3½x3½
2	4	4	8½x8x8	186	4½x4½

Volts	No. 1 Each	No. 2 Each	Amperes	Horsepower
6	\$32.50	\$44.00	8.0	1/40
12	32.50	44.00	4.0	1/40

Standard Package, 6**

A caution plate is furnished with every Blower.

Improved EXHAUST BLOWERS
CAST ALUMINUM HOUSING

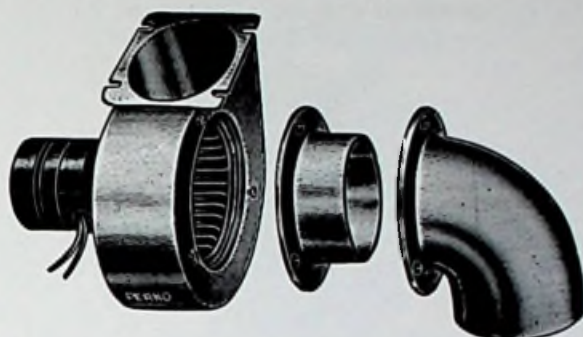


Fig. 795

The improvement is obvious; notice that the inlet fittings are not an integral part of the housing, permitting use of the straight or 90° fitting whichever is preferred.

The neck of the straight fitting is 1½ inches long allowing better fit of duct. The 90° fitting can be set at three different angles and eliminates the use of an elbow in the duct.

Volts	No. 1-3 Inch		No. 2-4 Inch	
	With Straight Inlet Each	With 90° Inlet Each	With Straight Inlet Each	With 90° Inlet Each
6	\$27.50	\$28.50	\$37.50	\$39.25
12	27.50	28.50	37.50	39.25

Standard Package, 6**

All other dimensions and data, same as Fig. 778. Specify type of inlet required.

Improved Blower and Ignition SWITCHES

CAST BRONZE—FLUSH TYPE



Watertite Enclosed Switch
Fig. 149



Non-Watertite Switch
Fig. 155

With these improved switches the engine cannot be started before the blower has been turned on, then before the engine can be stopped the blower must again be started thus clearing out any remaining fumes before and after engine operation.

Fig.	Polished Bronze Each	Chromium Plated Each	Face Plate Inches	Diam. Box Inches	Depth Inches	Weight Pounds
149	\$17.00	\$17.50	4¼	3¼	1¾	1¾
155	16.00	16.50	3¾	...	1¾	½

Standard Package, 6††



Turbine VENTILATORS

FOR MARINE USE
IMPROVED BEARING RUNNING IN OIL
GALVANIZED STEEL OR COPPER



Fig. 744

For removing gasoline fumes from engine room and bilge, cooking odors from the galley, ventilation of the cabins, etc.

The moving breeze whirls the head and the resulting vacuum causes a powerful upward lift to the air below.

Absolutely quiet in operation, durable and rainproof.

Inside Diam. Inches	Galv. Steel Each	Copper Each	Height Overall Inches	Diam. Overall Inches	Capacity C.F.M.	Galv. Weight Pounds
4	\$13.25	\$22.00	10	7	140	2¾
5	13.50	22.50	12	8½	152	3½
6	14.00	23.00	13	9½	196	4½
7	16.25	27.50	15	11	243	6
8	17.50	29.00	16	12½	285	7
10	21.00	35.75	18½	15	445	10
12	24.50	39.75	20	17½	650	12

With reinforcing band around bottom of neck supplied to order, price on application.

Galvanized vents are painted aluminum.

WATER DECK IRONS

GALVANIZED CAST IRON



Fig. 430

Size of Stove Pipe Inches	Each	Outside Diam. of Neck Inches	Diam. Flange Inches	Weight Pounds
2	\$3.90	2¼	5¼	1¼
3	6.25	3¾	7½	4
3½	7.25	3¾	8½	5
4	7.80	4¾	9¼	6¼
4½	9.75	4¾	10	8
5	10.50	5¾	10½	9
5½	12.50	5¾	11	9¾
6	12.75	6¼	11¼	11¼

VENTILATOR NOTES

Spare Deck Plates for above Cowl Ventilators, see Figs. 419 and 527.

When ordering cowl ventilators only, without deck plate, please specify whether with or without ring on neck.

All above cowl ventilator sizes are standard; special sizes and heights made to order.

Cowl VENTILATORS

ROUND MOUTH
WITH THREADED DECK PLATE
SHEET STEEL OR SHEET BRASS
CAST BRONZE DECK PLATE



Fig. 510

Steel ventilators are hot galvanized after fabrication.

Deck Plate Size Inches	Galv. Each	Polished Brass Each	Chromium Plated Each	Diam. Mouth Inches	Height Overall Inches	Weight Pounds
2	\$19.00	\$27.50	\$35.00	4	5½	1¼
2½	20.50	29.75	37.00	5	6½	1¾
3	22.50	32.50	40.00	6	8	2½
4	27.00	37.00	44.00	8	11	4
5	46.00	56.00	66.00	10	13	6
6	62.00	72.00	82.00	12	16	9
8	115.00	143.00	166.00	16	21	15½

Cowl VENTILATORS

WITH SWIVEL DECK PLATE
SHEET STEEL OR SHEET BRASS
CAST BRONZE DECK PLATE

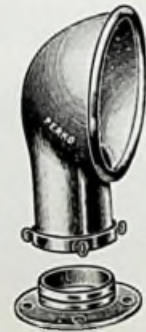


Fig. 513

Deck Plate Size Inches	Galv. Each	Polished Brass Each	Chromium Plated Each	Diam. Mouth Inches	Height Overall Inches	Weight Pounds
3	\$25.75	\$35.00	\$43.00	6	8	2
4	32.50	42.00	50.00	8	12	3¾
5	49.00	60.00	70.00	10	13½	4¾
6	65.00	75.00	86.00	12	17½	7½
8	96.00	123.00	145.00	16	20½	11½
10	167.00			20	28	30

Note—10 inch size is heavy 18 gauge steel and price applies to cowl only with galvanized band on neck. No deck plate.

Cover for Fig. 513 deck plate for use when ventilator is removed, price on application.

Polished copper vents supplied to order, price on application.



Cowl VENTILATORS
 OVAL MOUTH—WITH THREADED DECK PLATE
 CAST BRONZE—CHROMIUM PLATED

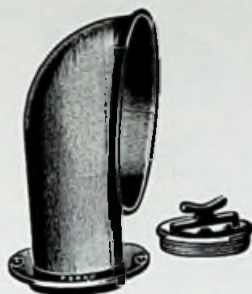


Fig. 509

Deck Plate Size Inches	Chromium Plated Each	Size Mouth Inches	Height Above Deck Inches	Weight Pounds
4	\$48.00	6½x4¾	8¾	8

Standard Package, 6*

Cowl VENTILATORS
 OVAL MOUTH
 CAST BRONZE—WITH SWIVEL DECK PLATE



Fig. 515

Supplied complete with cover for use when ventilator is removed.

Deck Plate Size Inches	Polished Bronze Each	Chromium Plated Each	Size Mouth Inches	Height Above Deck Inches	Weight Pounds
3	\$35.00	\$42.50	6¼x4	9¾	6
4	44.50	54.00	6½x4¾	9¾	8

Standard Package, 6*

Locker VENTILATORS
 CAST BRONZE



Fig. 783

No.	Polished Bronze Each	Chromium Plated Each	Diam. of Opening Inches	Size Plate Inches	Weight Pounds
1	\$7.20	\$9.25	1¾	2½x2½	½
2	7.50	9.75	2½	3¼x3¼	1
3	8.25	11.25	3	4¼x4¼	1½
4	11.25	13.50	3¾	4¾x4¾	1¾

Standard Package, 6*

Cruiser VENTILATOR
 STREAMLINE—CAST BRONZE



Fig. 908



Cut away view showing screen and water guard

An extremely neat ventilator for cruiser decks and cabin roofs.

An integral water guard inside mouth prevents spray or rain from entering ventilator. A bronze screen permanently installed to keep insects out of cabin.

Brushed Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Height Overall Inches	For Screw No.	Weight Pounds
\$14.50	\$22.50	\$24.00	7x7	3½	8	4¾

Standard Package, 6*

Junior Transom VENTILATOR

CAST BRONZE



Fig. 1069

Burnished Bronze Each	Chromium Plated Each	Size Flange Inches	Depth Collar Inches	For Screw No.	Weight Pounds
\$2.40	\$4.20	6¾x2¼	¾	6	¾

Standard Package, 12*

With bronze screen soldered in, add \$.90 each.

Senior Transom VENTILATOR

CAST BRONZE



Fig. 1062

Plain Bronze Each	Chromium Plated Each	Dimensions Inches	For Screw No.	Weight Pounds
\$3.45	\$5.80	10x4	8	1

Standard Package, 12*



Streamline Space Saver VENTILATOR

CAST BRONZE—CHROMIUM PLATED



Starboard Side

Fig. 771

For mounting on catwalk against outside of deck house or bulkhead where space is limited.

Bosses for fastening are inside ventilator out of sight but angled toward mouth for insertion of wood screws. Drilled for No. 8 F.H. wood screw.

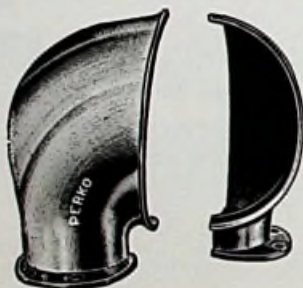
Supplied in pairs for starboard and port sides. When ordering a half pair mention side required.

Chromium Plated Per Pair	Length Overall Inches	Height Overall Inches	Dimensions Mouth Inches	Weight Per Pair Pounds
\$14.50	9¾	4½	4x1¾	2¾

Standard Package, 6 Pairs

Space Saver VENTILATORS

CAST BRONZE—CHROMIUM PLATED



Starboard Side

Port Side

Fig. 782

Designed especially for mounting against outside of deck house or cabin, takes up very little space, can be used to advantage in connection with exhaust fan Fig. 778.

No.	Inside Diameter at Base Inches	Measurements Inside at Mouth Inches	Height Overall Inches	For Screw No.	Weight Per Pair Pounds
1	2½	2¾x5	6¾	8	3¾
2	3½	3⅛x7½	9	8	6

No.	Chromium Plated Per Pair
1	\$22.25
2	27.75

Standard Package, 6 Pairs*

When ordering a half pair, please mention whether for port or starboard side.

"Midget" VENTILATORS

CAST BRONZE



Fig. 321

Popular for shielding gas tank vent outlets.

No.	Burnished Each	Chromium Plated Each	Dimensions Base Inches	Height Opening Inches	For Screw No.	Weight Ounces
1	\$.40	\$1.25	1½x1½	¾	4	1½
2	.50	1.50	2 x2	½	6	2¼

Standard Package, 12†

Clam Shell VENTILATORS

CAST BRONZE



Fig. 323

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	For Screw No.	Weight Ounces
4	2¾	1¾	3⅝x3½	7	7
5	3½	2	4 x3⅝	7	14

No.	Polished Bronze Each	Chromium Plated Each
4	\$2.65	\$3.40
5	3.10	3.85

Standard Package, 12†

Streamline VENTILATORS

CAST BRONZE



Fig. 324

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	For Screw No.	Weight Ounces
2	1¾	1	2⅝x3⅝	7	6
3	2⅝	1⅝	3⅝x4¼	7	12

No.	Polished Bronze Each	Chromium Plated Each
2	\$2.65	\$3.40
3	3.10	3.85

Standard Package, 12†



Ventilator DECK PLATES

CAST BRONZE—SCREW TYPE



Fig. 527

Complete with key and extra ring for cowl.

Diameter Opening Inches	Machine Finish Each	Polished Bronze Each	Chromium Plated Each	Diameter Plate Inches	Weight Pounds
2	\$ 7.85	\$ 9.25	\$11.25	3 $\frac{3}{8}$	$\frac{3}{4}$
2 $\frac{1}{2}$	8.90	10.00	12.00	4 $\frac{1}{2}$	1 $\frac{1}{4}$
3	10.00	11.80	13.90	4 $\frac{3}{8}$	1 $\frac{1}{2}$
3 $\frac{1}{2}$	13.25	14.95	17.85	5 $\frac{1}{2}$	2
4	14.95	17.85	20.20	5 $\frac{3}{8}$	2 $\frac{1}{2}$
5	21.00	24.25	27.00	7 $\frac{1}{8}$	3 $\frac{1}{2}$
6	26.50	30.25	33.00	8 $\frac{1}{4}$	6 $\frac{1}{4}$
8	57.00	62.50	68.00	10 $\frac{1}{4}$	8 $\frac{1}{2}$

Swivel DECK PLATES

CAST BRONZE—FOR COWL VENTILATORS



Fig. 419

For Size Ventilator Inches	Opening in Base Inches	Machine Finish Each
3	2 $\frac{1}{4}$	\$12.50
4	3 $\frac{1}{2}$	18.75
5	4 $\frac{1}{2}$	23.00
6	5	27.50
8	7	36.25

Permits cowl to be turned to any direction.

Price does not include cap, if cap is desired add 25% to above prices.

Pump VALVES



Fig. 237

Galvanized iron with oak leather clapper, galvanized iron weight on both sides of leather riveted together and screwed to casting.

Diameter inches	2	2 $\frac{1}{2}$	3	4
Wgt. per doz. lbs.	4	6	7	11
Per doz.	\$10.80	\$16.00	\$13.80	\$19.00

Standard Package, 2 Dozen*

Leather PLUNGERS

OAK LEATHER

Riveted together, strong and durable.



Fig. 239

For Diam. Pump Inches	Per Dozen	Weight Per Dozen Pounds
2	\$6.35	$\frac{3}{4}$
2 $\frac{1}{2}$	7.25	1 $\frac{1}{4}$
3	7.70	1 $\frac{1}{2}$
4	9.50	1 $\frac{3}{4}$

Standard Package, 3 Dozen*

Parts for Brass Bilge Pumps

Flange and cup washers are leather, especially treated for use in salt water. Split washer is wrought brass. Ball is hollow and made of wrought brass.

No. 1 for numbers 1 and 5 bilge pumps.

No. 2 for numbers 2, 4, 6 and 8 bilge pumps.



	Outside Diam. Inches	Each
Flange Washer Fig. 203	No. 1 1 $\frac{1}{8}$	\$.40
	No. 2 1 $\frac{3}{8}$	.45
Cup Washer Fig. 204	No. 1 1 $\frac{1}{8}$	\$.40
	No. 2 1 $\frac{3}{8}$	.45
Split Washer Fig. 205	No. 1 $\frac{3}{8}$	\$.11
	No. 2 1 $\frac{1}{8}$	.17
Hollow Ball Fig. 206	No. 1 $\frac{1}{2}$	\$.35
	No. 2 $\frac{3}{8}$	.40
Valve Fitting For Plunger Fig. 456	No. 1	\$1.25
	No. 2	1.35
Packing Nut Fig. 457	No. 1	1.35
	No. 2	1.75

NOTE—The above parts are also used in Fig. 345 bilge pumps, and Fig. 146 crank case pump.

Rubber Hose and Strainer

FOR FIGS. 200, 202 and 723 BRASS BILGE PUMPS

Heavy moulded rubber hose, durable and lasting. $\frac{3}{8}$ inch inside diameter.



Fig. 208



Fig. 209

Standard 5 ft. length
Cast Bronze Strainer

Each
\$1.20
.90

Other lengths of hose can be furnished. Price on application.



Automatic BOAT BAILERS

BRASS TUBING—CAST BRONZE FITTINGS
WITH BALL CHECK
FOR RUNABOUTS



Fig. 410

Has outlet fitting in streamline design to reduce resistance, screened inlet fitting.

Operates at speed of about 7 miles per hour.

Requires no further attention after installation.

Each	Height Inside Hull Inches	Diam. Tubing Inches	For Hull Thickness Inches	Weight Pounds
\$11.00	7	3/4	up to 1 3/8	1 1/2

Standard Package, 6

Spare rubber balls, per dozen \$1.50.

Automatic BOAT DRAINERS

CAST BRONZE—BURNISHED



Fig. 213

For use in life boats. Made of heavy cast bronze, with sponge rubber ball valve. Cast bronze cover with chain attached, threaded 1 1/8 inches, No. 14 thread.

Complete Each	Caps Only With Chain Each	Balls Only Per Dozen	Diam. Opening Inches	Diam. Flange Inches	Diam. Ball Inches
\$6.25	\$1.95	\$3.00	1 1/4	3 3/8	1 1/2

Standard Package, 6

Steel BOAT BAILERS

GALVANIZED—RIVETED HANDLE



Fig. 180

Each	Diameter Inches	Weight Pounds
\$4.00	8 3/4	1

Standard Package, 6

Small BOAT DRAINER

THREADED TYPE

CAST BRONZE—BURNISHED



Fig. 386

Each	Height Inside Boat Inches	Width Overall Inches	Weight Pounds
\$6.10	2 3/4	2 1/2	1 1/4

Standard Package, 6

Starts draining at speed of 5 miles per hour. Install in after end of boat and be sure that mouth is toward the stern.

Made for hulls 3/8 inch or thicker but may be used with thinner hulls by cutting away necessary portion of neck. Depth of mouth below hull is 3/4 inch.

Small BOAT DRAINER SPRING TYPE—STAINLESS STEEL SPRING CAST BRONZE

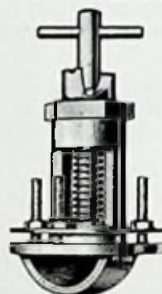


Fig. 387

Installed in after end of boat with mouth toward stern. Starts draining at about 5 miles per hour.

To open lift "T" handle and lock by half turn to left. A slight turn to right will release strong spring closing drainer tightly.

For use in metal or wood boats.

Bronze Each	Height Inside Boat Inches	Diam. Flange Inches	Weight Bronze Pounds
\$7.25	4	2 3/4	1

Standard Package, 6

Transom DRAIN PLUGS

FOR OUTBOARD BOATS
PLAIN BRASS



Fig. 414

To release plug, raise handle to position illustrated. Remove plug while boat is in motion and water will drain out. Install in lowest part of transom. Watertight when closed.

Each	Diam. Tube Inches	Length Overall Inches	Length Tube Inches	Weight Ounces
\$2.20	1	2 1/2	2	4 1/2

Standard Package, 12



Garboard DRAIN PLUGS

CAST BRONZE—BURNISHED



Fig. 263



Fig. 266

The handle and plug are cast in one piece eliminating the need for a wrench. However if the plug should "freeze" into the flange a wrench may be used on the squared portion of the stem.

Each	Pipe Size Inches	Diam. Flange Inches	Depth Inches	Weight Ounces
\$3.50	3/4	2 3/8	5/8	11

Standard Package, 12*

Garboard DRAIN PLUGS

CAST BRONZE—BURNISHED



Fig. 714



Fig. 737

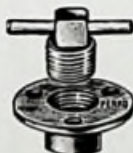


Fig. 714-A



Fig. 737-A

Figs. 737 and 737-A has extra brass flange and 3 F.H. machine screws, maximum space between flanges is 3/4 inches.

Fig.	Burnished Bronze Each	Pipe Size Inches	Diam. Flange Inches	Depth Inches	Weight Ounces
714	\$2.15	1/2	2	5/8	3
714-A	2.50	1/2	2	5/8	4
737	2.90	1/2	2	5/8	6
737-A	3.25	1/2	2	5/8	7

Standard Package, 12*

Garboard DRAIN PLUGS

CAST BRONZE — BURNISHED

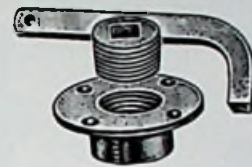


Fig. 124

A few of these drain plugs installed in garboard allows quick drainage of boat when hauled out, by removing heavy plug. Threads are tapered pipe sizes and plugs are watertight.

Burnished Bronze Each	Pipe Size Inches	Diam. Flange Inches	Depth Inches	Weight Ounces
\$4.60	1	3 1/8	1	10

Standard Package, 12

Furnished complete with galvanized wrench.

Bronze Navy Pump STRAINERS

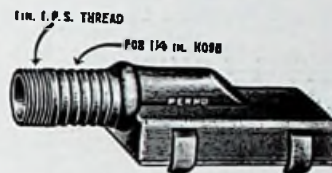


Fig. 704

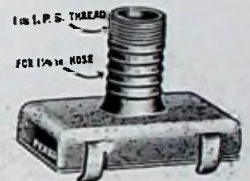


Fig. 705



Fig. 721



Fig. 722

Fig.	Each	Pipe Thread Inches	For Hose Inches	Length Inches	Width Inches	Weight Pounds
704	\$4.25	1	1 1/4	7	2 3/4	2
705	4.25	1	1 1/4	4 1/2	2 3/4	1 1/2
721	4.25	1 1/4		5	2 3/4	1 1/2
722	4.25	1 1/4		4 1/2	2 3/4	1 1/2

Standard Package, 6*

Junior STRAINER

CAST BRONZE FOR 3/8 INCH RUBBER HOSE



Fig. 709

Excellent for use with bilge pumps having 3/8 inch hose for intake such as our Fig. 202, etc.

Each	Length Overall Inches	Width Inches	Weight Ounces
\$2.40	4	1 1/4	6

Standard Package, 6



"Champion" Navy BILGE PUMP
FOR PIPE
BRASS CYLINDER—CAST BRONZE PARTS
WITH WEIGHTED LEATHER VALVE



Fig. 1016

CAPACITY—16 STROKES—5 GALLONS

Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Diameter Plunger Rod Inches
\$28.50	24	2 3/4	1 1/4	1 1/2	1/2

Fig. 147—Weighted leather valve only, each . . . \$1.50
Fig. 151—Flax packed plunger only, each 2.75



Fig. 151
Flax Packed Plunger



Fig. 147
Weighted Leather Valve

"Super" Navy BILGE PUMP
FOR HOSE OR PIPE
WITH WEIGHTED LEATHER VALVE

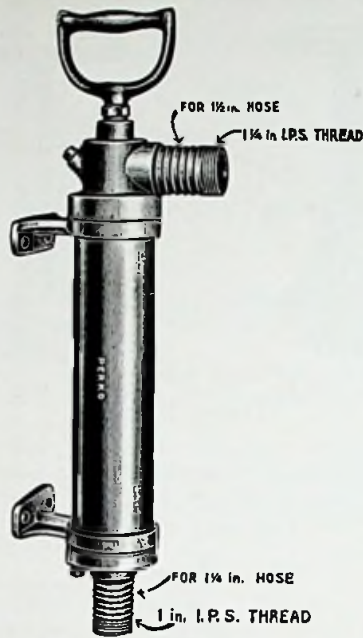


Fig. 701

This is our very popular "Champion" Pump improved by cast bronze integral fittings at inlet and outlet ends for connecting hose or pipe.

Each	Extreme Length Inches	Inlet Sizes		Outlet Sizes	
		Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$32.00	27	1	1 1/4	1 1/4	1 1/2

"Junior" Navy BILGE PUMP



Fig. 1018

CAPACITY—16 STROKES—3 GALLONS

This is the Fig. 1016 "Champion" Pump reduced in length for installation in limited space.

Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Weight Pounds
\$27.00	16 1/4	2 3/4	1 1/4	1 1/2	5 1/2

"Midget" Navy BILGE PUMP

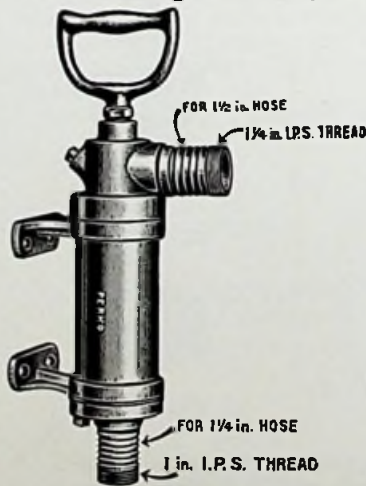


Fig. 702

Our Fig. 701 pump reduced in length for boats requiring a large capacity pump to be installed where space is limited.

Each	Extreme Length Inches	Diam. Cylinder Inches	Inlet Sizes		Outlet Sizes	
			Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$29.50	18 1/4	2 3/4	1	1 1/4	1 1/4	1 1/2



Fig. 108

Fig. 108 Plunger Assembly only, complete, No. 1 for pumps Figs. 702 and 1018, \$8.50 each, No. 2 for pumps Figs. 701 and 1016, \$9.00 each.



Brass BILGE PUMPS
DOUBLE ACTION

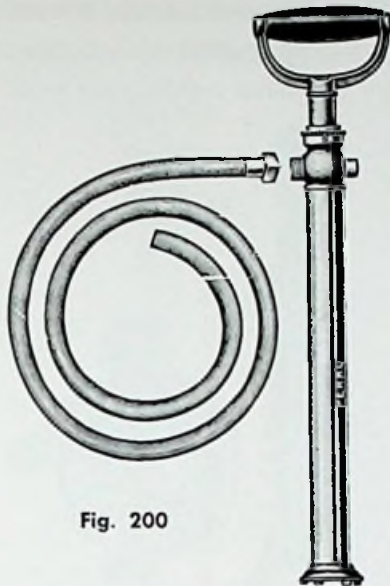


Fig. 200

Heavy brass seamless tubing, cast bronze fittings, treated leather packing, hollow brass ball checks. "D" shaped handle. Moulded rubber hose 5 feet long furnished with each pump.

No.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
1	\$10.35	17 $\frac{3}{8}$	1 $\frac{1}{8}$	5	2 $\frac{1}{4}$
2	14.00	20	1 $\frac{1}{2}$	10	3 $\frac{1}{4}$

Without hose, deduct \$.50 each.

Brass BILGE PUMPS
DOUBLE ACTION

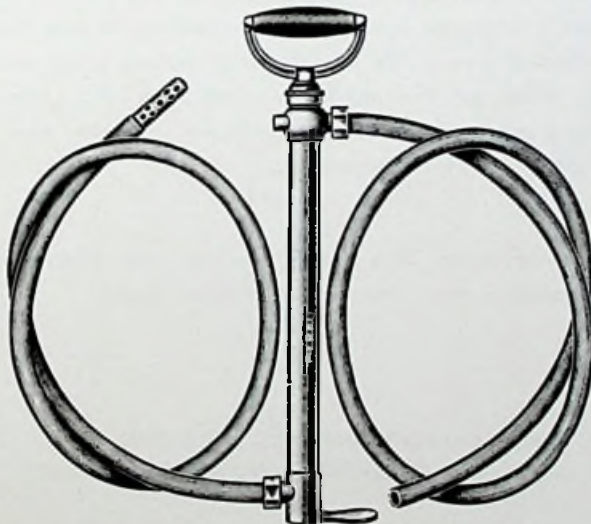


Fig. 202

Cast bronze foot rest and two 5 foot lengths of hose for suction and discharge.

No.	With Hose Each	Height Inches	Diameter Inches	Capacity Per Min. Gallons	Weight Pounds
5	\$13.60	18 $\frac{3}{8}$	1 $\frac{1}{8}$	5	3
6	17.65	21	1 $\frac{1}{2}$	10	4

Without hose, deduct \$.50 for each hose.

"SEA JET"

Brass BILGE PUMP

NEOPRENE CAP, VALVE, PLUNGER AND HOSE
HARD RUBBER FULL GRIP HANDLE

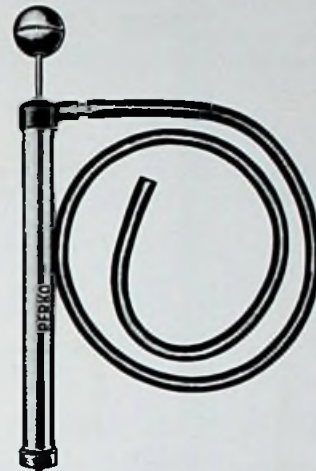


Fig. 183

The plunger and valve of neoprene will not dry out or rot. A long lasting pump for small boats.

CAPACITY, 14 STROKES PER GALLON

Complete Each	Diameter Tubing Inches	Height Overall Inches	Weight Pounds
\$7.25	1 $\frac{1}{4}$	17 $\frac{1}{2}$	2

Brass BILGE PUMP

SINGLE ACTION

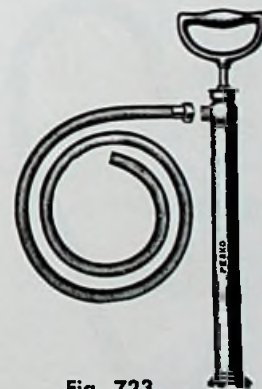


Fig. 723

Complete with 5 feet of rubber hose.

Has moulded neoprene rubber plunger producing excellent capacity. Capacity 2 $\frac{1}{2}$ gallons per minute.

With Hose Each	Without Hose Each	Diameter Inches	Extreme Length Inches	Weight Pounds
\$9.35	\$8.85	1 $\frac{1}{8}$	17 $\frac{3}{8}$	2



Small Boat BILGE PUMP

STEEL—ZINC PLATED OR ALUMINUM
GOOD CAPACITY—EASY OPERATION



Fig. 152

These have felt retainer washer to prevent squirt through cap. Capacity—7 gallons per minute at normal speed.

Aluminum Pump has cast top with integral spout

	Each	Length Inches	Diameter Body Inches	Diameter Spout Inches	Weight Pounds
Steel	\$3.75	25	1½	¾	2½
Aluminum	5.65	26	1½	¾	1½
Standard Package, 25**					

Outboard BILGE PUMP

ALL BRASS—WITH 3 FT. RUBBER HOSE
BRASS BRACKETS FOR MOUNTING

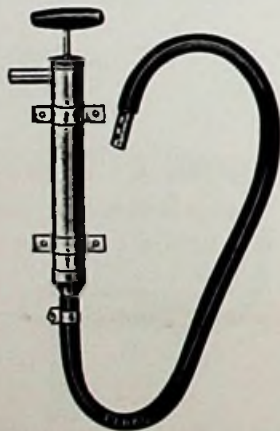


Fig. 201

For small boats, outboard motor, sail or rowboats. Brackets permit permanent installation on transom or side, allowing one hand pumping while boat is in use. Complete with bronze intake strainer.

Each	Length Body Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
\$9.00	11	1½	1½	2½
Standard Package, 6				

"Perko" WING PUMPS

DOUBLE ACTION—ALL BRONZE
FOR MARINE, INDUSTRIAL AND DOMESTIC USE
IMPROVED VALVES HOLD PRIME

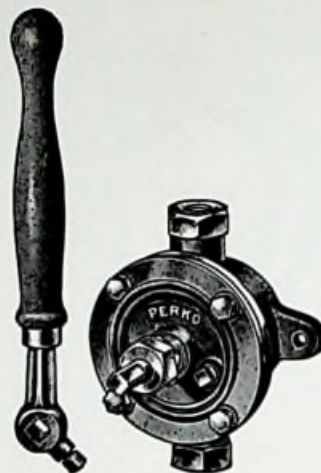


Fig. 681

Constructed entirely of cast bronze, principally for use as a marine bilge pump, but is used in large quantities in the industrial field for pumping oil and gasoline, hot liquids, juices, etc.

The interior consists of a cast bronze wing which oscillates on a bronze shaft connected to handle. The wing has lubricated square flax packing set in grooves which runs on interior of drum and as no metal parts rub together this pump will last for years without noticeable wear. Packing is very easily replaced.

Intake valves have greatly improved and priming is unnecessary even after several weeks of disuse.

GREAT CAPACITY—LIFT AND HEAD OVER 35 FT.
EFFORTLESS OPERATION—HARDWOOD HANDLE

No.	Each	Size Pipe Conne- ction Inches	Overall Diam. of Body Inches	Capacity Per Minute Gallons	Weight Pounds
0	\$54.50	½	5¼	5	11½
1	63.00	¾	5¾	7	14
2	69.25	1	6¾	9¾	19½

Spare handles, complete, \$6.95 each. Wood only, \$1.20 each.



Brass BILGE PUMPS

DOUBLE ACTION—WITH BULKHEAD BRACKETS
 THREADED FOR 3/4 INCH PIPE



Fig. 345

Without Tail Pieces Each	With Tail Pieces Each	Length Overall Inches	Diam. Barrel Inches	Weight Pounds
\$20.50	\$22.85	21	1 1/2	3

Spare Parts, See Page 79.

Supplied with tail pieces if not otherwise specified.

CRANK CASE PUMP

DOUBLE ACTION—ALL BRASS



Fig. 146

For draining the crank case through filler opening, with outlet spout for attaching rubber hose. Intake is bronze flexible metal hose.

Complete Each	Spare Intake Hose Each	Length Overall Inches	Length Intake Hose Inches	Diam. Pump Inches	Weight Pounds
\$13.00	\$4.00	17 1/2	12 1/2	1 1/4	2 1/2

NOTE—Above supplied with intake tube for 5/8 inch rubber hose instead of metal hose illustrated, specify Fig. 1029, \$10.00 each.

CRANK CASE PUMP

SINGLE ACTION—ALL BRASS
 WITH BRONZE FLEXIBLE METAL HOSE
 OUTLET SPOUT AND NEOPRENE PLUNGER

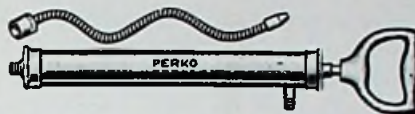


Fig. 388

Outlet spout permits continuous operation. The new plunger has increased capacity with smoother operation.

Complete Each	Spare Intake Hose Each	Diam. Barrel Inches	Length Barrel Inches	Length Overall Inches	Weight Pounds
\$9.25	\$3.65	1 1/2	12	15 1/2	2

Spare Neoprene plungers, \$.35 each.

CRANK CASE PUMP

WITH FLEXIBLE METAL INTAKE HOSE
 SINGLE ACTION—STEEL OR BRASS

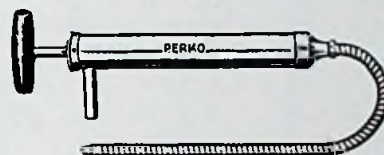


Fig. 336

Steel pump is painted red. Brass pump is in natural finish.

Flexible intake hose is 18 inches long, 1/2 inch outside diameter. Outlet spout is 2 1/4 inches long, 3/8 inches outside diameter.

Steel Each	Brass Each	Length Body Inches	Diam. Body Inches	Weight Pounds
\$4.60	\$7.00	11	1 1/2	1 1/4

CRANK CASE PUMP

FOR RUBBER HOSE OR TUBING
 SINGLE ACTION—STEEL OR BRASS

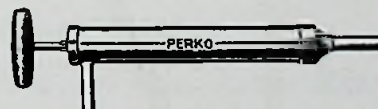


Fig. 335

Steel pump is painted red. Brass pump is in natural finish.

Inlet and outlet tubes will fit 5/8 inch rubber hose or tubing, so equipped, this pump may also be used as a bilge pump for small boats.

Steel Each	Brass Each	Length Body Inches	Diam. Body Inches	Weight Pounds
\$3.75	\$6.00	11	1 1/2	1 1/4



PERKO IMPROVED "FLEXO-SHAFT" ELECTRIC BILGE PUMPS

Patented

WITH FLEXIBLE PHOSPHOR BRONZE DRIVE SHAFT AND WATERPROOF CASING
 CASING HAS "TEMFLEX" PLASTIC COVERING TO INCREASE ITS STRENGTH
 ALL BRONZE EXCEPT MOTOR—BURNISHED FINISH.

The value of this pump arrangement is obvious at first sight.

Pass the shaft around corners, over or under bulkhead, ribs or any other obstructions and it operates.

Mount the motor anywhere, in a cabin, pilot house, or out in the cockpit far removed from gasoline fumes that usually settle in low places; place the pump where it is needed at the moment, at the lowest point of the bilge, under the engine, under low decking or any place other types of pumps cannot reach.

Inlet is through base which has heavy gauge brass strainer. Outlet is illustrated and is for 1 inch rubber hose, or 1/2 inch pipe.

CAPACITY—500 gallons per hour at 1 foot MAXIMUM HEAD—8 feet, with 3 foot shaft.
MOTOR IS LOW AMPERAGE 1/40 H.P. at 2000 R.P.M.

WITH DIRECT DRIVE

WITH ANGLE DRIVE

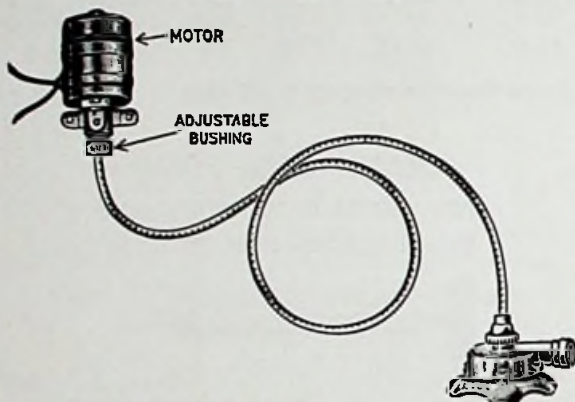


Fig. 666

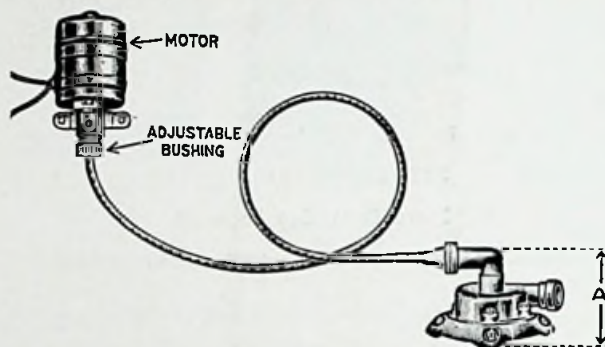


Fig. 689

Height Pump Inches	Diam. Base Inches	Weight Pounds
4 1/4	4 3/8	7
	6 Volt Each	12 Volt Each
With 3 ft. shaft	\$42.50	\$42.50
With 6 ft. shaft	47.50	47.50
Motor only	12.00	12.00

Height at "A" Inches	Diam. Base Inches	Weight Pounds
3 1/8	4 3/8	7 1/2
	6 Volt Each	12 Volt Each
With 3 ft. shaft	\$49.00	\$49.00
With 6 ft. shaft	54.00	54.00
Motor only	12.00	12.00

Standard Package, 6†††

CAPACITY WITH 4 FOOT HEAD—300 GALLONS PER HOUR
CAPACITY WITH 8 FOOT HEAD—120 GALLONS PER HOUR

SPARE PARTS

3 Foot shafts only	\$10.00 Each
6 Foot shafts only	14.75 Each
Fig. 666 Complete Pump Unit only	18.50 Each
Fig. 689 Complete Pump Unit only	25.50 Each
Impeller only	1.50 Each

Fig. 689 Mitre Gears with shaft	\$4.00 Per Pair
Fig. 689 Angle Elbow Less Gears	4.00 Each
Motor Bulkhead Bracket only	4.50 Each
NOTE—See page 90 for "Pipe to Hose" coupling, which permits attaching 5/8 inch hose to above pumps.	

AUTOMATIC SWITCH FOR BILGE PUMPS

PRESSURE OPERATED DIAPHRAGM TYPE—FOR NON-AUTOMATIC BILGE PUMPS
 CAST BRONZE—WITH SYNTHETIC RUBBER DIAPHRAGM—HEAVY DUTY MECHANICAL SWITCH

For All Voltages From 6 to 110

This device consists of a very sensitive switch in contact with a diaphragm of oil and grease resistant material. The wires are led through a neoprene hose above any normal water level.

This switch will start the pump operating when the water reaches the top of the switch or 2 1/4 inches. It will turn off again when the water reaches a depth of 1 inch but by connecting 1/4 inch tubing to the 1/8 inch pipe tapped end of switch and into the discharge line of the pump the pressure in the pump discharge line will continue to operate the switch until the pump sucks air.

Burnished Complete Each	Spare Switch Each	Spare Diaphragm Each	Height Inches	Diam. Base Inches	Weight Pounds
\$17.50	\$3.00	\$1.10	2 1/4	4 1/4	2
Standard Package, 6*					



Fig. 662



PERKO IMPROVED "FLEXO-SHAFT" AUTOMATIC ELECTRIC BILGE PUMPS

Patented

FLEXIBLE PHOSPHOR BRONZE DRIVE SHAFT AND WATERPROOF CASING
 CASING HAS "TEMFLEX" PLASTIC COVERING TO INCREASE ITS STRENGTH
 PRESSURE OPERATED DIAPHRAGM TYPE AUTOMATIC SWITCH—THREE-WAY DASHBOARD SWITCH
 ALL BRONZE EXCEPT MOTOR—6 AND 12 VOLTS—BURNISHED FINISH
 WATERTIGHT—OPERATES WITH PUMP AND SWITCH HOUSING SUBMERGED

FEATURES—See write up on Figs. 666 and 689 (opposite page) for installation and other features.
BREATHER TUBE—Is heavy flexible "Koroseal," 18 inches long with 1/8 inch wall.
THREE-WAY DASHBOARD SWITCH—is indicated "Off," "Automatic" and "Non-automatic" and permits remote control accordingly.
ADJUSTABLE BUSHING—For adjustment of tension on driveshaft to assure full R.P.M. of pump impeller.
AUTOMATIC SWITCH—Starts pump operating when bilge water reaches a depth of about 1 1/2 inches and will "Shut off" at a depth of about 3/4 inch.
CAPACITY—500 gallons per hour at 1 foot head—300 gallons at 4 feet—120 gallons at 8 feet. Maximum head 8 feet with 3 foot shaft.
MOTOR—Low amperage 1/40 H.P. at 2000 R.P.M.

WITH DIRECT DRIVE

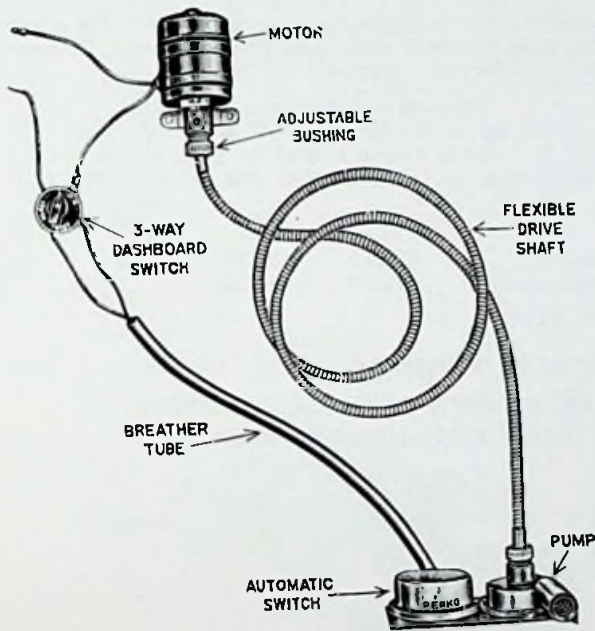


Fig. 742

WITH ANGLE DRIVE

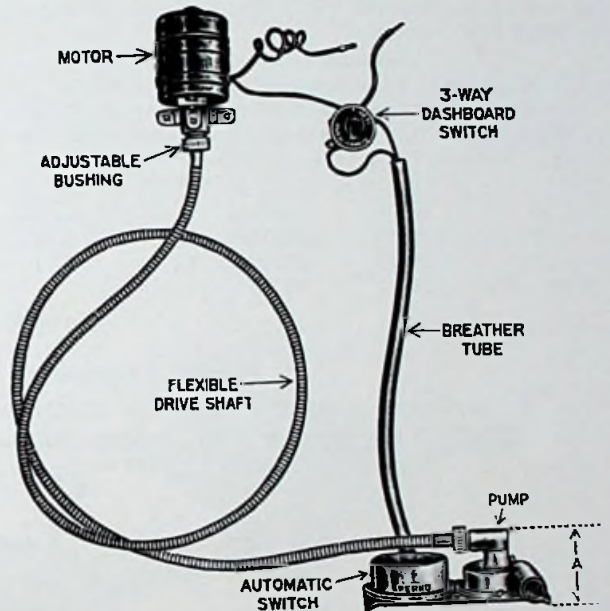


Fig. 743

	Fig. 742		Fig. 743		Fig. 742	Fig. 743	Size	Weight
	6 Volt	12 Volt	6 Volt	12 Volt	Height	Height	Base	Pounds
	Each	Each	Each	Each	Pump	at "A"	Inches	
					Inches	Inches		
With 3 foot shaft	\$65.00	\$65.00	\$71.50	\$71.50	2 1/2	2 3/4	7x4	8
With 6 foot shaft	70.00	70.00	76.50	76.50	2 1/2	2 3/4	7x4	8

Spare pump unit, complete except motor and shaft, Fig. 742, \$34.00 each, Fig. 743, \$39.00 each.
 Spare 3-way dashboard switches, \$4.00 each.
 Other spare parts, see page 86.

Perko "Flexo-Shaft" WATER SYSTEM PUMP

WITH PIPE INLET AND OUTLET—1/2 INCH
 CAST BRONZE—BURNISHED FINISH

Supplied complete with Flexible Drive Shaft and Motor per Fig 666 Page 86.
 See Page 90 for diagram of installation. Capacity same as Fig. 666.

	6 Volt	12 Volt	Height	Weight
	Each	Each	Pump	Pump only
			Inches	Pounds
With 3 foot shaft	\$42.50	\$42.50	3 1/4	2
With 6 foot shaft	47.50	47.50	3 1/4	2

Pump only as illustrated, no shaft or motor, \$16.00 each.

NOTE—This pump does not have the ability to lift water from below the pump level, therefore, it is not intended for use as a bilge pump.

See Page 90 for "Pipe to Hose" coupling, for attaching hose to above pumps.

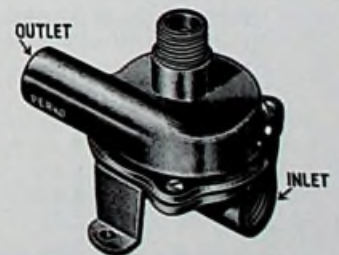


Fig. 748



"Junior" Electric BILGE PUMP

NON-AUTOMATIC—6 OR 12 VOLTS
ALL BRASS EXCEPT MOTOR
BAKED GRAY FINISH



Fig. 780

The result of a determined effort to produce a good practical electric bilge pump of high capacity at a price as low as possible and within the means of the majority of small boat owners.

Maximum head—7 feet
Capacity at 1 foot head—7 gallons per minute
Capacity at 4 foot head—4 gallons per minute
Motor is 1/40 H.P. at 2000 R.P.M.—8 amps. at 6 volts
Outlet is for regular 5/8 inch garden hose

No.	6 Volt Each	12 Volt Each	Height Overall Inches	Weight Pounds
1	\$28.00	\$28.00	8 1/2	2 5/8
2	30.00	30.00	12	3 1/4
Motor only	10.00	10.00		

BAIT TANK or WATER SYSTEM PUMP

ELECTRIC—6 OR 12 VOLTS
ALL BRASS EXCEPT MOTOR
BAKED GRAY FINISH



Fig. 781

When installed at or below the water line this pump is ideal for keeping the bait tank supplied with constant water changes.

As a water system pump it can be placed in the supply line from the fresh water tank to sink, lavatory, shower, etc., per diagram on page 90.

Complete with side mounting bracket
Outlet on side for regular 5/8 inch garden hose
Inlet in bottom tapped for 1/2 inch pipe

Information on head, capacity and motor see Fig. 780

	6 Volt Each	12 Volt Each	Height Overall Inches	Weight Pounds
Complete	\$27.50	\$27.50	8 1/2	2 5/8
Motor only	10.00	10.00		

Standard Package, 6†††

Perko Improved "ROTOFLEX" PUMPS

IMPROVED—SYNTHETIC NEOPRENE COMPOUND ROTOR—NEOPRENE U-CUP SEALS—LEAKPROOF
ALL BRONZE BODY—MONEL SHAFT—BRASS GREASE CUPS—BURNISHED FINISH

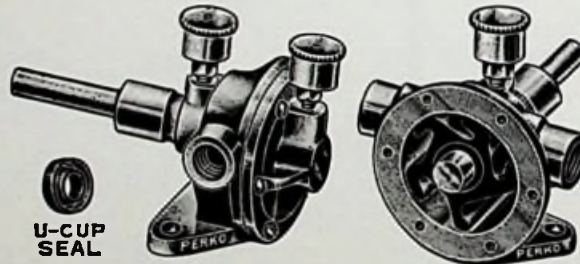


Fig. 696

Quiet operation—long continuous service—large capacity at low speed—for use with salt water, oil and tars self priming—will pump in either direction.

The rotor is a synthetic compound of neoprene and other chemicals resulting in high resistance to abrasion or wear, is impervious to oil and other impurities. The vanes of the rotor are highly flexible yet tough enough to resist the wear encountered by the passage of sand and other foreign matter; produce the necessary high vacuum and stand the continuous flexing as the rotor revolves.

The use of U-cup seals eliminates packing and packing glands.

Lift in feet, 25 to 30. Head in feet, 30 to 40.

Not to be used with synthetic solvents such as gasoline, naphtha, etc.

No.	Each	Spare Rotors Each	Size Pipe Connection Inches	Diam. Shaft Inches	Extreme Height Inches	Extreme Width Inches	Extreme Length Inches	Dimensions Base Inches	Capacity G.P.M.			Weight Pounds
									600 R.P.M.	*1000 R.P.M.	1500 R.P.M.	
2	\$16.00	\$1.65	3/8	1/2	3 1/2	3 1/2	6 1/4	3 x 1 3/4	4.1	4.9	6.4	2 5/8
3	21.00	2.40	1/2	5/8	3 3/4	4	6 1/4	3 3/4 x 2 1/4	7.1	8.5	11.0	3 3/4
4	25.50	2.85	3/4	3/4	4	4 1/2	8 3/4	4 x 3	13.0	16.5	22.0	5 1/4
5	30.50	2.85	1	3/4	4	5	8 3/4	4 1/4 x 3	15.7	19.2	26.0	6
6	56.75	6.50	1 1/4	3/4	5	7 1/4	9 1/2	5 1/2 x 3 1/2	19.5	33.5	48.0	14

Spare U-cup seals with brass retainer—\$.60 each. Specify size of shaft.

*Recommended maximum for continuous duty. Capacity shown based on 0 lbs. pressure. With special length of shaft, price on application. Motor recommended 1/4 to 1/2 H.P. for sizes No. 2-3-4-5 and up to 3/4 H.P. for size No. 6.



"PERKO" BRONZE GEAR TYPE PUMPS

SIZES NO. 3 AND 4 HAVE DROP FORGED BRONZE BODIES

The entire interior, including bearings, is tool machined, insuring perfect alignment and absolutely tight joints, blank bearing ends are solid (not soldered), all bearings are fully lubricated by brass grease cups. The drive shaft is in perfect alignment with the pump body. Pipe connections are Briggs standard pipe tap.

SINGLE LOWER DRIVE SHAFT

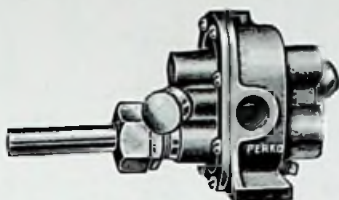


Fig. 684

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$21.75	\$21.75	1/4	1/2	3 3/4
3	24.90	....	3/8	5/8	5 1/2
4	28.00	....	1/2	3/4	6
7	34.90	....	3/4	5/8	9
9	36.50	36.50	1	3/4	9 1/2

SINGLE UPPER DRIVE SHAFT

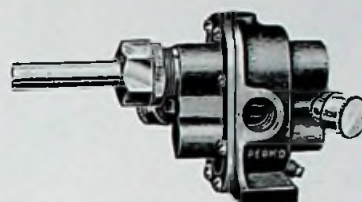


Fig. 682

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$21.75	\$21.75	1/4	1/2	3 3/4
3	24.90	24.90	3/8	5/8	5 1/2
4	28.00	....	1/2	3/4	6
7	34.90	34.90	3/4	5/8	9
9	36.50	36.50	1	3/4	9 1/2

DOUBLE LOWER DRIVE SHAFT

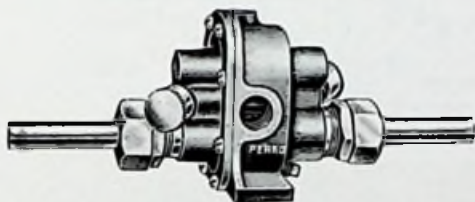


Fig. 685

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$25.50	\$25.50	1/4	1/2	4 1/2
3	30.50	....	3/8	5/8	6 1/4
4	31.50	....	1/2	3/4	6 3/4

DOUBLE UPPER DRIVE SHAFT

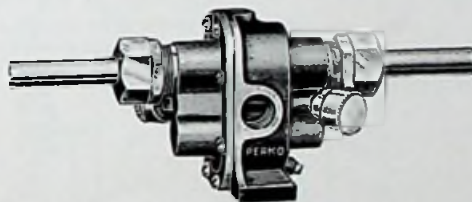


Fig. 683

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$25.50	\$25.50	1/4	1/2	4 1/2
3	30.50	....	3/8	5/8	6 1/4
4	31.50	....	1/2	3/4	6 3/4

NOTE—Figs. 682 and 684 in all sizes except 1 inch are reversible. That is, any person, dealer, user, etc., can change a lower shaft pump to "upper shaft" or vice versa in a few minutes.

NOTE—Don't fail to state figure and pump number desired. When ordering pump with herringbone gears be sure to specify direction of rotation, clockwise or counter-clockwise.

CAUTION—When above pumps are operated by belt and pulley be sure to use intermediate bearing on shaft.

GEAR PUMP PARTS

Pump No.	Spur Gears Each	Herringbone Gears Each	Drive Shaft Each	Idle Shaft Each
2	\$3.00	\$3.25	\$2.50	\$1.75
3	3.00	3.25	3.00	2.25
4	3.75	....	3.00	2.25
7	5.75	6.00	3.00	2.25
9	6.50	6.75	3.00	2.25

CAPACITY TABLES FOR GEAR PUMPS AT 1725 R.P.M. PRESSURE AND GALLONS PER MINUTE

Pump No.	2		20		40		60		80	
	Lbs.	H.P.	Lbs.	H.P.	Lbs.	H.P.	Lbs.	H.P.	Lbs.	H.P.
2	4.0	1/4	3.7	1/4	3.5	1/4	3.4	1/2	3.2	1/2
3	7.5	1/2	7.0	1/2	6.5	3/4	6.5	1	6.3	1
4	10.5	3/4	10.0	3/4	9.5	3/4	9.1	1	8.5	1 1/2
7	19.5	1 1/4	19.0	1	18.5	1 1/2	18.5	2	18.5	2
9	23.5	1 3/4	23.0	1 1/2	22.5	2	22.0	2	21.5	3



"Perko" Electric WATER FAUCETS

ALL CAST BRONZE—WITH ADJUSTABLE SPOUT—6 AND 12 VOLTS

TURN THE HANDLE AND THE WATER STARTS TO FLOW. NO HAND PUMPING OR PRIMING NECESSARY.

Connect one or several of the faucets to our Figure 748 electric pump. (See below for suggested installation.) Water is then supplied to your sink or lavatory as easily as in your home. All connections are threaded for 1/2 inch pipe.

WITH HAND SWITCH



High Spout
Fig. 727



Low Spout
Fig. 728

SELF CLOSING TYPE



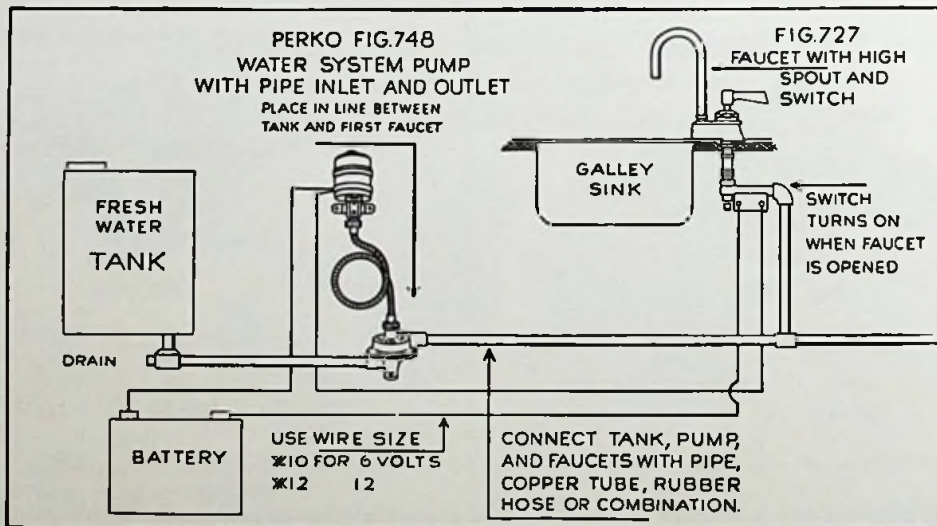
Fig. 740

Fig.	Chromium Plated Each	Height Above Drain Board Inches	Length Below Drain Board Inches	Weight Pounds
727	\$27.00	8 1/4	5 1/2	2 1/2
728	19.75	3 1/4	5 1/2	2

Standard Package, 3*

Chromium Plated Each	Height Above Drain Board Inches	Spout Projection Inches	Weight Pounds
\$24.50	3 3/4	2 1/2	2 1/2

Standard Package, 3



Bronze Utility CHECK VALVE

WITH BRASS BALL CHECK AND STRAINER



Fig. 265

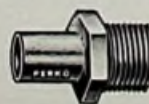
Ideal for holding prime in the inlet line of galley and lavatory pumps, bilge pumps, etc. Threaded both ends.

Each	Pipe Size Inches	Length Inches	Weight Ounces
\$2.25	1/2	1 1/8	3 1/2

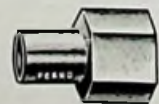
Standard Package, 12

Brass "Pipe To Hose" COUPLINGS

1/2" PIPE TO 3/8" HOSE



Male Pipe Thread
Fig. 210



Female Pipe Thread
Fig. 212

Each	Length Overall Inches	Length Hose Couplings Inches	Weight Ounces
\$1.25	1 1/4	3/4	2 1/4

Standard Package, 12*



Improved Galley and Lavatory PUMPS
BRONZE—CHROMIUM PLATED



Fig. 467
Metal Handle



Fig. 473
Mahogany Handle



Fig. 144



Fig. 1040

IMPROVED INLET VALVE TO HOLD PRIME
WITH LEAKPROOF NEOPRENE U-CUP SEALS

Fig.	Diam. Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Weight Pounds
467	1½	6½	2½	½	3½
473	1½	6	2½	½	3½

Fig.	Chromium Plated Each	Chromium Plated Handle Only Each	Mahogany Grip Only Each
467	\$29.50	\$4.50	
473	30.50	5.50	\$1.05

Repair Kit, each \$3.00.

FLARED FLANGE — NEOPRENE PLUNGER
IMPROVED VALVE TO HOLD PRIME

Length of stroke is 5¼ inches.
Inlet is threaded for ¾ inch pipe.

Fig.	Diam. Barrel Inches	Length Overall Inches	Projection Spout Inches	Height Spout Inches	Weight Pounds
144	1½	13½	3	0	3
1040	1½	14½	4½	3	3½

Fig.	Exposed Parts Only—Chromium Plated Each	Repair Kits Each
144	\$23.00	\$2.75
1040	25.00	2.75

ANGLE TYPE
DOUBLE ACTION—SWIVEL SPOUT
EFFORTLESS OPERATION



Fig. 677

Angle toward user when installed permits easy effortless operation.
Spout swivels to various positions.
Bottom valve is an improved type to hold prime.
Capacity, 10 strokes per quart.

Chromium Plated Each	Inlet Pipe Size Inches	Spout Projection Inches	Height Flange to Spout Inches	Weight Pounds
\$17.50	¾	4	4¼	2¼

Repair Kit, each \$1.50

"EZY-FLO"
ALL BRASS—CHROMIUM PLATED

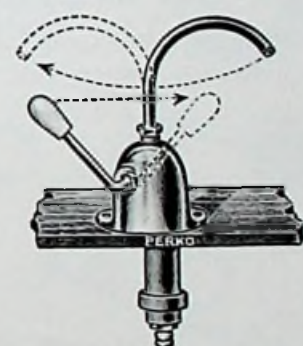


Fig. 177

Finger tip control, easy operation, self priming.
Handle operates with short rocking strokes so effortless a child can work it.
Spout swivels to any direction desired.
Inlet fits 5/8" rubber hose or 3/8" pipe.
Capacity—20 strokes per quart.

Each	Extreme Height Above Drain Board Inches	Dimensions Mounting Base Inches	Weight Pounds
\$26.00	8	4x1¾	2¼

Repair Kit, each \$4.15



Stainless Steel SINKS

DEEP DRAWN, SEAMLESS CONSTRUCTION
19 GAUGE 18-8—NATURAL FINISH



Fig. 356

Corrosion resistant and immune to rust.
No crevices for dirt or bacteria to collect.
No painted or coated surface to crack or wear off.
Bottom is heavily undercoated for sound deadening.
Packed in individual cartons.

No.	Each	Size Inside Inches	Size Outside Inches	Depth Inside Inches	Weight Pounds
1	\$26.00	9 ⁷ / ₈ x13 ³ / ₈	11 ⁷ / ₈ x15 ³ / ₈	5	4
2	32.50	11 ¹ / ₂ x16 ³ / ₄	13 ¹ / ₂ x18 ³ / ₄	6	6 ¹ / ₂
3	39.50	11 ³ / ₄ x19 ³ / ₈	13 ³ / ₈ x21 ³ / ₈	7	7 ¹ / ₂
4	63.00	16 x20	18 x22	8 ¹ / ₂	9 ¹ / ₂

Drain fittings for above, see fig. 357.

Stainless Steel SINK FRAMES

FOR FLUSH INSTALLATION—SELF SEALING
EASILY INSTALLED—NO SPECIAL TOOLS REQUIRED



Fig. 347



Fig. 181

Complete with mounting lugs, bolts and corner brackets.

Fig.	No.	Each	For Sink Outside Dimensions Inches
347	1	\$ 9.90	11 ⁷ / ₈ x15 ⁷ / ₈
347	2	10.10	13 ¹ / ₂ x18 ³ / ₄
347	3	10.10	13 ⁵ / ₈ x21 ⁵ / ₈
347	4	10.50	18 x22
181	6	10.00	12 ³ / ₄ Diam.

Stainless Steel SINKS

ROUND
DEEP DRAWN, SEAMLESS CONSTRUCTION
20 GAUGE 18-8 NATURAL FINISH



Fig. 271

Bottom is heavily undercoated for sound deadening.
Packed in individual cartons.

No.	Each	Diameter Inside Inches	Diameter Outside Inches	Depth Inside Inches	Weight Pounds
6	\$14.50	10 ³ / ₄	12 ³ / ₄	5	2

Drain fitting for above, see fig. 586.

Pressed Steel SINK

WHITE PORCELAIN ENAMELED
FLAT RIM



Fig. 402

Packed in individual cartons.

Sink Only Each	Size Inside Inches	Size Outside Inches	Depth Inches	Weight Pounds
\$10.25	10 ¹ / ₂ x16	12 ³ / ₄ x18	4 ³ / ₄	4

Drain fitting for above, see fig. 586.

**DRAIN FITTINGS
WITH TAIL PIECE FOR HOSE**



Fig. 357



Fig. 586

Fig.	Each	Opening In Sink Inches	Diameter Tail Piece Inches	Weight Ounces
357	\$5.50	3 ¹ / ₂	1 ¹ / ₂	20
586	2.50	2	1 ¹ / ₂	10

Fig. 357 is stainless steel and is for sink fig. 356.
Fig. 586 is brass, chromium plated and is for sinks Figs. 271 and 402.



LAVATORIES

WHITE VITREOUS CHINA LAVATORIES WITH INTEGRAL BACK AND ROUND BASIN WITH OVERFLOW.



Fig. 830
Corner Type



Fig. 831
Flat Back



Fig. 832
Flat Back

Fitted with chromium plated waste plug, chainstay, chain, stopper and tail piece.

Fig.	No.	Without Pump or Faucet Each	With Faucet Each	Lavatory Size Inches	Diameter Basin Inches	Diameter Outlet Inches	Diameter Pump Inlet Inches	Height Back Inches
830	1	\$39.75	\$49.00	12x12	10	1 1/4	1/2	2 1/2
	2	49.25	58.50	14x14	11	1 1/4	1/2	2 1/2
831		33.75	43.00	12x12	10	1 1/4	1/2	2 1/2
832		38.75	48.00	14x14	11	1 1/4	1/2	2 1/2

NOTE: Pumps for above, see Figs. 144-467-473-1040. Faucets are Chromium plated bronze, marked "Hot" or "Cold", please specify. All above furnished without pump or faucet unless otherwise specified.

LUCITE LAVATORIES

CHIP PROOF—HEAT RESISTANT—RESILIENT

LIGHTWEIGHT—IMPERVIOUS TO RUST

LUSTROUS WHITE



Fig. 823



Fig. 825

These sturdy basins have all the appearance of fine vitreous china and will perform all the functions of same while providing light weight and lower cost.

Will accommodate regular faucets or our various lavatory pumps.

Supplied complete with 1 1/4 inch tail piece for outlet.

Fig.	Each	Size Inches	Size Basin Inches	Height Back Inches	Weight Pounds
823	\$19.25	14 x 15 1/4	12 x 9	1 1/4	1 1/4
825	19.25	14 1/4 x 12 3/4	12 1/2 x 7 1/2	1 1/8	2

Standard Package, 6*

TOILET REPAIR PARTS AND KITS

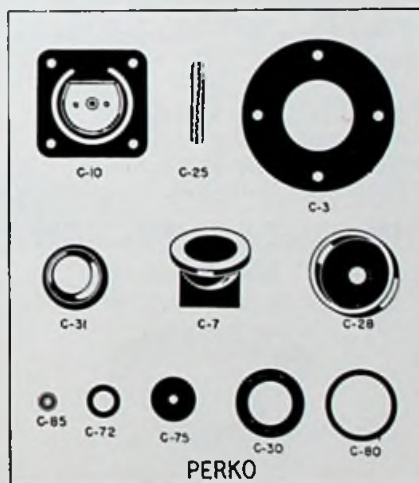


Fig. 909

White Seat and Cover complete	Each \$ 9.00
White Seat Without Cover complete	Each 7.00
White Vitreous Bowl only	Each 22.00
Flush Tube (Rubber Hose)	Each 1.50

REPAIR KITS

Repair Kits complete, consisting of the following parts and quantity in each kit

Part No.	Each	Description	Quantity Per Closet
C-3	\$.90	Bowl Flange Gasket	1
C-7	1.30	Neoprene Joker Valve	1
C-10	1.00	Neoprene Check Valve	2
C-25	.20	Flax Piston Rod Packing	2
C-28	.60	Cup Leathers for Piston	2
C-30	.10	Bowl Spud Friction Washer	2
C-31	.10	Bowl Spud Gasket	2
C-72	.10	Inlet Coupling Washer	1
C-75	.15	Inlet Valve Seat Rubber	1
C-80	.10	Cap Nut Washer	2
C-85	.30	U-Cup Seal for Supply Valve	1
C-86	.02	Brass Cotter Pins 1/16x1	6



PERKO IMPROVED MARINE CLOSETS

FOR ABOVE OR BELOW WATERLINE
 WHITE VITREOUS CHINA BOWL — RIM FLUSHING TYPE
 ALL BRONZE PUMP AND FITTINGS—WHITE PAINTED FINISH
 ALL WHITE SEATS AND COVERS — BRASS CHROMIUM PLATED HINGES
 INLET HAS TAILPIECE FOR 5/8 INCH HOSE
 OUTLET HAS TAILPIECE FOR 1 1/2 INCH HOSE
 OUTLET TAILPIECE HAS NEOPRENE "JOKER" BACKWATER CHECK VALVE
 WASTE ARM HAS 1/2 INCH PIPE SIZE DRAIN OUT OPENINGS

The "Boatman"

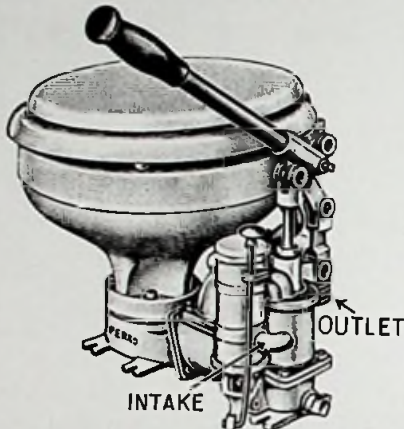


Fig. 828-D With Hand Valve
 Fig. 829-D With Foot Valve

Handle can be changed to vertical position by anyone in a few minutes.

Height With Cover Inches	Height Without Cover Inches	Width Side to Side Inches	Depth Front to Back Inches	Size Base Inches	Weight Pounds
13 1/4	12 1/8	17	16	12x5	40

No.	Each
1 Fig. 828-D With Seat and Cover	\$96.00
2 Fig. 828-D With Seat Only	95.00
3 Fig. 829-D with Seat and Cover	98.00
4 Fig. 829-D With Seat Only	97.00

The "Little John"

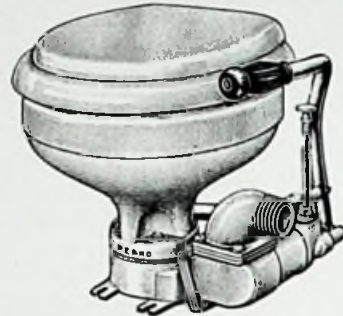


Fig. 833

This compact little closet was designed primarily for small boats where space is limited.

Supplied only as illustrated, with horizontal handle and hand valve.

Height With Cover Inches	Height Without Cover Inches	Width Side to Side Inches	Depth Front to Back Inches	Size Base Inches	Weight Pounds
13 1/4	12 1/8	15	16	9x5	32

No.	Each
1 Without Joker Valve, with seat and cover	\$83.25
2 Without Joker Valve, with seat only	81.75
3 With Joker Valve, with seat and cover	90.00
4 With Joker Valve, with seat only	88.50

Stock Package, 12**

Thru Hull CONNECTIONS

For Hose
 CAST BRONZE—BURNISHED



Fig. 350

For use with above closets when sea cock is unnecessary.

For Hose Inches	Each	Length Overall Inches	Maximum Wood Thickness Inches	Weight Pounds
5/8	\$2.35	3	1 1/4	3/8
3/4	3.10	3 5/8	1 5/8	1/2
1 1/4	5.60	4 1/4	2	1 3/8
1 1/2	5.85	4 1/4	2	1 1/2

Standard Package, 6*

Bronze SEA COCKS WITH DRAIN PLUGS—ROUND WAY REMOVABLE HANDLE



Fig. 834



Fig. 835

Size Inches	Fig. 834 Each	Fig. 835 Each	With Fig. 86 Strainer Add Each	Size Strainer Inches	Without Hull Connection Deduct Each
3/4	\$17.40	\$17.00	\$1.20	3 1/2	\$2.00
1	23.20	22.35	1.20	3 1/2	2.65
1 1/4	28.80	28.00	1.60	4 1/4	3.80
1 1/2	35.10	34.45	2.40	5	4.75
2	60.00	59.00	3.10	6	7.00

Standard Package, 6**

Thru-Hull CONNECTIONS CAST BRONZE—BURNISHED WITH AND WITHOUT TAIL PIECE



Fig. 64



Fig. 322

Size Pipe Inches	Fig. 64 Each	Fig. 322 Each	Length Neck Inches	O.D. Tail Piece Inches	Diam. Flange Inches	Wt. Fig. 64 Lbs.	Wt. Fig. 322 Lbs.
3/8	\$ 2.70	\$1.90	2 3/8	1/2	1 3/8	3/8	1/4
1/2	3.15	2.10	2 3/4	1/2	1 3/4	1/2	3/8
3/4	3.95	2.70	2 3/4	3/4	2	5/8	1/2
1	5.45	3.65	2 3/4	1	2 1/4	1	3/4
1 1/4	7.60	5.45	3 1/2	1 1/4	2 3/8	1 3/4	1 1/2
1 1/2	10.00	6.80	3 3/4	1 1/2	3	2 1/2	1 3/4
2	14.00	10.00	4	2	3 1/2	3	1 3/4
2 1/2		11.00	4		4 1/2	5	2 1/4

Standard Package, 6*

Bronze TAIL PIECES

For lead pipe or hose connections, furnished complete with rubber washer.



Fig. 67 Straight
Fig. 78,
90 Degree

I.P.S. Size Inches	O.D. Tail Piece Inches	Fig. 67 Each	Fig. 78 Each
1/4	3/8	\$.80	
3/8	1/2	.80	
1/2	1/2	1.05	
3/4	3/4	1.25	\$1.65
1	1	1.80	2.80
1 1/4	1 1/4	2.15	3.05
1 1/2	1 1/2	3.20	3.85
2	2	4.35	5.50

Standard Package, 6*

Thru Hull CONNECTIONS For Hose CAST BRONZE—BURNISHED



Fig. 311

This useful fitting is generally used above the water-line. It accommodates two sizes of hose.

Each	For Size Hose Inches	Inside Diameter Inches	Length Overall Inches	Weight Ounces
\$1.75	3/4 and 1	5/8	3 1/8	7

Standard Package, 6

Water OUTLETS CAST BRONZE

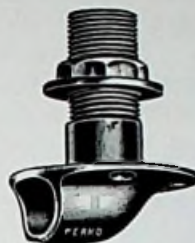


Fig. 332

Size Pipe Inches	Diam. Flange Inches	Length of Pipe Inches	Weight
3/4	2 3/4	2 1/4	12 oz.
Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	
\$4.75	\$5.75	\$6.50	

Standard Package, 6*

Speedboat STRAINERS CAST BRONZE—BURNISHED



Fig. 65

Designed to prevent clogging. Will admit full supply of water at all speeds.

Size Pipe Inches	Each	Length Pipe Inches	Size Strainer Inches	Weight Pounds
1/2	\$3.80	2 1/4	2 1/2 x 3 1/2	5/8
3/4	4.60	2 3/8	3 x 4	7/8
1	5.70	3	3 1/2 x 4 1/2	1 1/8
1 1/4	8.50	3 3/8	3 3/4 x 4 1/2	1 3/4

Standard Package, 6*

Scoop STRAINERS

CAST BRONZE—BURNISHED



Fig. 66

Can be used with inlet connection, Fig. 64. No. 1 will fit up to 1/2 inch. No. 2 will fit up to 1 inch. No. 3 will fit up to 1 1/4 inches. No. 4 up to 2 inches.

No.	Each	Outside Dimension Inches	Weight Each
1	\$.95	3 1/2 x 2 1/2	4 oz.
2	1.40	5 x 3 1/4	7 oz.
3	2.75	6 1/4 x 4 1/4	1 lb.
4	5.20	8 1/4 x 5 1/4	2 lbs.

Standard Package, 6*

Round STRAINERS

CAST BRONZE—BURNISHED



Fig. 86

Outside Diam. Inches	Each	Inside Diam. Inches	Weight Each
2 1/2	\$.70	1 3/4	2 oz.
3	.80	2	4 oz.
3 1/2	1.20	2 3/8	5 oz.
4 1/4	1.60	3	6 oz.
5	2.40	3 3/4	12 oz.
6	3.10	4 1/2	1 lb.
8	5.25	6	2 lbs.
10	8.00	8 1/4	3 lbs.

Standard Package, 6*



Marine WINDOWS WITH SPIGOT PLAIN BRONZE OR ALUMINUM WATERTIGHT—TWO FASTENINGS



Fig. 796

Furnished complete with removable screen and outside finishing frame.

Designed to supply the maximum amount of air and light possible while keeping bulk and weight to a minimum.

No.	Size of Opening Inches	Plain Bronze Each	Plain Aluminum Each	Without Finishing Frame Deduct	
				Bronze Each	Aluminum Each
1	5x12	\$36.60	\$28.65	\$2.70	\$1.80
2	7x16	50.70	35.50	3.40	2.15

Standard Package, 6*

No.	Dimensions Outside of Frame Inches	Length Spigot Inches	Thickness Glass Inches	Bronze Weight Pounds	Aluminum Weight Pounds
1	7 $\frac{3}{4}$ x14 $\frac{3}{4}$	2	$\frac{1}{4}$	16	7
2	10 x19 $\frac{1}{4}$	2	$\frac{1}{4}$	22	10

Oval Inside PORTLIGHTS PLAIN BRONZE OR ALUMINUM WITH OUTSIDE FINISHING RING AND REMOVABLE HINGE PIN

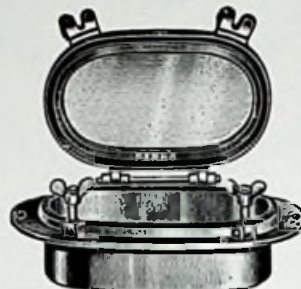


Fig. 897

Size of Opening Inches	Bronze For Wood Thickness 1 $\frac{1}{2}$ Inches	Aluminum For Wood Thickness 1 $\frac{1}{2}$ Inches	Without Finishing Ring Deduct	
			Bronze Each	Aluminum Each
4x7	\$24.70	\$18.70	\$ 2.00	\$ 1.50
5x9	31.60	23.20	2.85	2.20

Standard Package, 6*

Size of Opening Inches	Length Flange Inches	Width Flange Inches	Thickness Glass Inches	Bronze Weight Pounds	Aluminum Weight Pounds
4x7	10	7	$\frac{3}{8}$	8 $\frac{1}{2}$	4 $\frac{1}{4}$
5x9	12 $\frac{1}{2}$	8	$\frac{3}{8}$	11 $\frac{3}{4}$	6

NOTE—Screens for above, see Fig. 443.

Marine WINDOWS WITHOUT SPIGOT PLAIN BRONZE OR ALUMINUM WATERTIGHT—TWO FASTENINGS

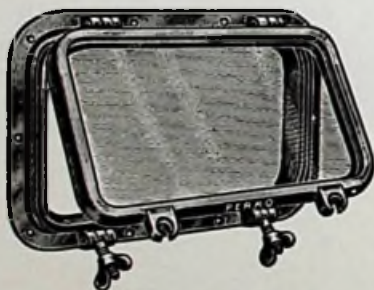


Fig. 803

Furnished complete with removable screen. Without finishing frame.

No.	Size of Opening Inches	Plain Bronze Each	Plain Aluminum Each	Bronze Weight Pounds	Aluminum Weight Pounds
3	5x12	\$29.00	\$24.00	11 $\frac{1}{2}$	5
4	7x16	37.00	29.00	16	7

SPECIAL FINISHING FRAMES FOR FIG. 803

3	5x12	\$ 6.00	\$ 5.50	2 $\frac{1}{2}$	1
4	7x16	7.50	7.00	3 $\frac{1}{2}$	1 $\frac{1}{2}$

Standard Package, 6*

NOTE—These Special Finishing Frames have mounting holes drilled to line up with those in window frame.

For other dimensions, see Fig. 796 above.

NOTE—Spare Screens for Figs. 796 and 803, size 5x12 inches—\$5.50 each. Size 7x16 inches—\$6.25 each.

"Air Scoop" CABIN WINDOWS CAST BRONZE—WATERTIGHT PLEXIGLASS WINDOW—BUILT IN SCREEN

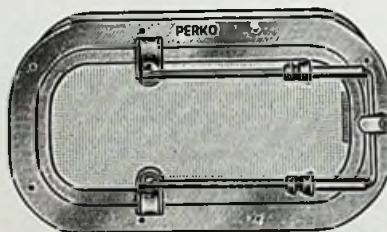
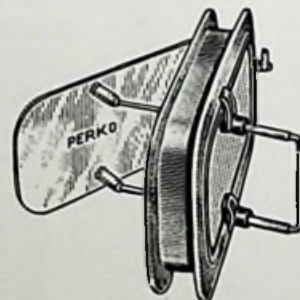


Fig. 843

A unique idea in cabin windows. No heavy hinged door, no wing nuts, chains, hooks or effort necessary, the simple method of operation is clearly shown above.



No.	Size of Opening Inches	Plain Bronze Each	Outside Dimensions of Frame Inches	Length Spigot Inches	Thickness Glass Inches	Weight Pounds
1	5x12	\$35.50	8x15	2	$\frac{3}{8}$	12
2	7x16	52.25	10x19	2	$\frac{3}{8}$	15 $\frac{1}{2}$

Standard Package, 6*



Round PORTLIGHTS

CAST BRONZE

GLASS AREA IS SAME DIAMETER AS OPENING



Fig. 317

Diam. Opening Inches	Plain Bronze Each	Diam. Clear Glass Inches	Outside Diam. Frame Inches	Thickness Glass Inches	Weight Pounds
4	\$12.20	4	7 $\frac{3}{8}$	$\frac{1}{4}$	2 $\frac{3}{4}$
5	15.20	5	8 $\frac{3}{4}$	$\frac{1}{4}$	4 $\frac{3}{4}$
6	17.65	6	9 $\frac{3}{4}$	$\frac{1}{4}$	5 $\frac{5}{8}$
7	25.00	7	10 $\frac{1}{2}$	$\frac{3}{8}$	8
8	28.30	8	12 $\frac{1}{4}$	$\frac{3}{8}$	9 $\frac{1}{8}$
10	55.00	10	15 $\frac{3}{4}$	$\frac{1}{2}$	19 $\frac{1}{2}$

All sizes have Removable Hinge Pin.
10 inch has Two Fastenings.
Standard Package, 6*

DECK LIGHTS

CAST BRONZE—FOR WOOD DECKS



Fig. 838

Diameter Clear Glass Inches	Plain Bronze Each	Polished Bronze Each	Thickness Glass Inches	Outside Diam. Frame Inches	Weight Pounds
4	6.10	9.60	$\frac{1}{4}$	6 $\frac{1}{2}$	2
5	9.80	13.75	$\frac{3}{8}$	7 $\frac{1}{2}$	3 $\frac{3}{8}$
6	12.20	16.75	$\frac{3}{8}$	8 $\frac{1}{2}$	3 $\frac{3}{8}$
8	20.90	25.90	$\frac{1}{2}$	11	7 $\frac{1}{4}$

More-Air PORTLIGHTS

INSIDE PATTERN—FOR WOOD HULLS

CAST BRONZE—PLAIN

COMPLETE WITH OUTSIDE FINISHING RING

GLASS AREA IS SAME DIAMETER AS OPENING

ALL SIZES ARE GROOVED FOR SCREENS

WITH REMOVABLE HINGE PIN

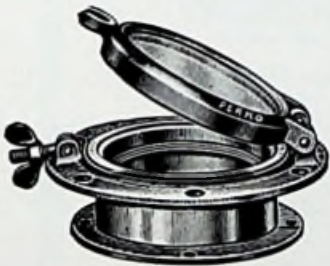
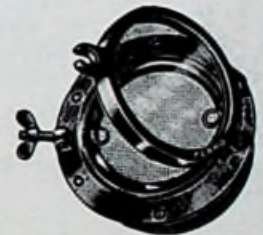


Fig. 157

Showing Screen in Place



Opening Inches	For Thickness of Wood		Outside Diameter Frame Inches	Thickness Glass Inches	Weight $\frac{1}{2}$ Inch Spigot In Pounds
	1 $\frac{1}{2}$ Inch Plain Bronze Each	3 Inch Plain Bronze Each			
4	\$13.00	\$14.75	6 $\frac{3}{8}$	$\frac{1}{4}$	4 $\frac{1}{2}$
5	14.75	17.75	7 $\frac{3}{8}$	$\frac{1}{4}$	6
6	19.00	21.90	8 $\frac{3}{8}$	$\frac{1}{4}$	7 $\frac{3}{4}$
7	25.50	30.40	10 $\frac{1}{4}$	$\frac{3}{8}$	11
8	29.75	34.00	11 $\frac{1}{2}$	$\frac{3}{8}$	14 $\frac{1}{2}$
10	51.00	57.00	14 $\frac{1}{4}$	$\frac{1}{2}$	20

For 1 inch wood, use 1 $\frac{1}{2}$ inch price. For 2 or 2 $\frac{1}{2}$ inch wood use 3 inch price, etc.

10 inch size has two fastenings.

Without outside finishing ring, deduct from above prices the following:

	4 Inch	5 Inch	6 Inch	7 Inch	8 Inch	10 Inch
Plain	\$1.15	\$1.30	\$1.60	\$2.70	\$3.10	\$5.15

NOTE—Screens for all portlights above see Fig. 442.

Stock size is for 1 $\frac{1}{2}$ inch wood, other sizes made to order only.



ROUND FRAMES For Glass
CAST BRONZE



Fig. 444

Size No.	Plain Each	Inside Diam. Inches	Outside Diam. Inches	Weight Pounds
1	\$1.55	4	5 $\frac{1}{4}$	$\frac{1}{2}$
2	1.85	4 $\frac{1}{2}$	6 $\frac{1}{4}$	$\frac{3}{8}$
3	2.00	5	6 $\frac{3}{4}$	$\frac{1}{16}$
4	2.10	5 $\frac{1}{2}$	7 $\frac{1}{4}$	$\frac{3}{4}$
5	3.10	6	8	$\frac{7}{8}$
6	3.60	6 $\frac{1}{2}$	8 $\frac{1}{2}$	1
7	4.10	7 $\frac{1}{4}$	9 $\frac{1}{4}$	1 $\frac{1}{8}$
8	6.25	8 $\frac{1}{2}$	11 $\frac{1}{4}$	1 $\frac{1}{8}$
10	8.40	10 $\frac{3}{4}$	13 $\frac{1}{4}$	2 $\frac{1}{4}$

Polished or Chromium Plated price on application.

Round Portlight SCREENS
BRONZE—SPRING TYPE
FOR FIGS. 157 AND 317 PORTLIGHTS



Fig. 442

For Size Opening Inches	Bronze Each	Dull Chromium Plated Each	For Size Opening Inches	Bronze Each	Dull Chromium Plated Each
4	\$2.65	\$3.65	7	\$3.95	\$5.00
5	3.00	4.00	8	4.35	5.35
6	3.35	4.35	10	5.75	6.75

Round FINISHING RINGS
For Inside Portlights
CAST BRONZE—PLAIN



Fig. 455

Size No.	Plain Each	For Size Portlight Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Pounds
1	\$1.15	4	4 $\frac{1}{2}$	5 $\frac{1}{8}$	$\frac{1}{2}$
2	1.30	5	5 $\frac{1}{2}$	6 $\frac{1}{8}$	$\frac{1}{2}$
3	1.60	6	6 $\frac{1}{2}$	7 $\frac{1}{8}$	$\frac{5}{8}$
4	2.70	7	7 $\frac{1}{2}$	9 $\frac{1}{8}$	1
5	3.10	8	8 $\frac{1}{2}$	10 $\frac{1}{4}$	1 $\frac{3}{4}$
7	5.15	10	10 $\frac{3}{8}$	13	2 $\frac{3}{4}$

Oval Portlight SCREENS
BRONZE—SPRING TYPE
FOR FIG. 897 PORTLIGHT



Fig. 443

For Size Opening Inches	Bronze Each	Dull Chromium Plated Each
4x7	\$3.85	\$4.85
5x9	4.50	5.50

Portlight CHAINS
BRONZE



Fig. 441

Polished Each	Chromium Plated Each	Length Inches	Size Plate Inches	Weight Ounces
\$2.00	\$2.85	8	1 $\frac{1}{4}$ x1	3

Round Portlight SCREENS
BRASS FRAME—COPPER SCREENING
FRICTION TYPE—FOR RECESSED PORTLIGHTS



Fig. 434

Outside Diameter Inches	For Size Portlight Inches	Each	Outside Diameter Inches	For Size Portlight Inches	Each
4 $\frac{1}{8}$	4	\$2.75	8 $\frac{1}{8}$	8	\$4.60
5 $\frac{1}{8}$	5	3.15	9 $\frac{1}{8}$	9	4.80
6 $\frac{1}{8}$	6	3.45	10 $\frac{1}{8}$	10	6.00
7 $\frac{1}{8}$	7	4.20	12 $\frac{1}{8}$	12	6.85

Larger sizes made to order—Price on application.

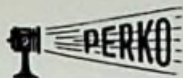
RUBBER for Portlights



Fig. 461

Size	Per Length
$\frac{1}{4}$ inch square	\$1.95
$\frac{3}{8}$ inch square	2.95
$\frac{1}{2}$ inch square	4.00

Standard Package, 12 Lengths**
Supplied only in 12 $\frac{1}{2}$ foot lengths



Speed Boat RUDDERS
CAST MANGANESE BRONZE

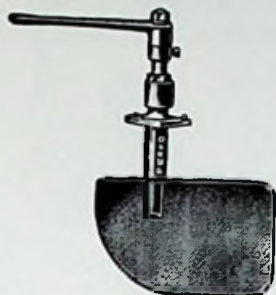


Fig. 813

Furnished complete with tiller, collar, nut, rudder port and machined stock. Standard length stock above blade 12 inches.

No.	Complete Each	Rudder Only Each	Blade Size Inches	Diam. Stock Inches	Length Tiller Inches	Weight Rudder Only Pounds
1	\$65.20	\$33.40	9x14	1	12	12

With stock longer than standard, price on application.

"Rudder Only" supplied without machined stock. With machined stock, price on application.

Hyspeed RUDDERS
CAST MANGANESE BRONZE

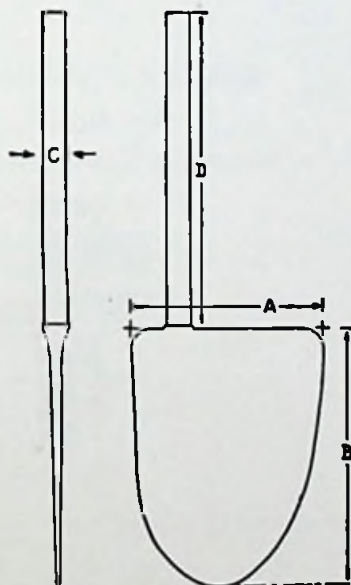


Fig. 818

Constructed in perfectly balanced proportion. Designed for express cruisers, runabouts, speedboats and all boats not carrying a skag.

No.	Each	Dimension Inches				Weight Pounds
		A	B	C	D	
1	\$39.90	9	12	1	16	12
2	48.90	10½	14	1½	18	17
3	54.00	12	16	1¾	18	20

With stock longer than standard, price on application.

NOTE—Orders for rudders with special length of stock cannot be cancelled. Delivery about 30 days.

Cruiser RUDDERS
CAST MANGANESE BRONZE

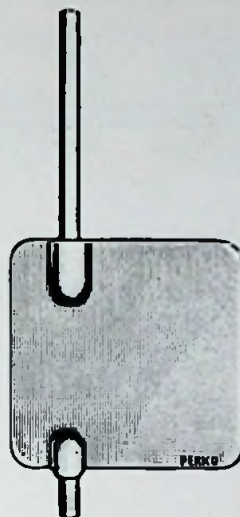


Fig. 816

No.	Blade Size Inches	Each	Blade Thickness Inches	Diam. of Stock Inches	Total Length of Stock Inches	Longer Stocks Per Inch	Weight Pounds
1	12x12	\$47.00	¼	1	12	\$.50	15
2	13x13	51.00	¼	1	12	.50	16

Bronze Rudder COLLARS



Fig. 815

For Diam. Stock Inches	Each	Outside Diameter Inches	Thickness Inches	Weight Ounces
¾	\$2.00	1¼	1⅛	2½
⅞	2.60	1½	⅞	4
1	2.75	1¾	15/16	7
1⅛	2.75	1¾	15/16	6½
1¼	3.95	2½	15/16	11
1⅝	4.90	2½	1½	19
1½	5.20	2½	1½	19

Bronze TILLERS
CAST BRONZE



Fig. 810

For round stock rudders Figs. 813, 816, 818.

No.	Each	Length Inches	For Rudder Stock Inches	Size Keyway Inches	Weight Pounds
1	\$ 7.35	8	¾ or 1	⅝ or ⅜	1½
2	8.70	10	1	⅜	2
3	10.00	12	1	¼	3¼

NOTE—Size No. 1, please specify size of rudder stock.



Straight TILLERS

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 650

With square hole and set screw.

Length Inches	Galv. Each	Plain Bronze Each	Size of Square Hole Inches	Weight (Iron) Pounds
10	3.95	4.50	3/4 x 3/4	1 3/4
15	7.55	12.00	1 x 1	3 1/2

Quadrant TILLERS

GALVANIZED MALLEABLE IRON



Fig. 651

Radius Inches	Galv. Each	Max. Diam. Rope Inches	Square Hole Adjustable Inches	Weight Pounds
7	\$ 7.35	3/8	5/8 to 3/4	3
10	17.20	3/8	5/8 to 1	5 1/4
12	21.75	3/8	3/4 to 1 1/4	8 1/2
15	40.00	1/2	3/4 to 1 1/4	13
18	55.00	3/8	1 to 1 3/8	27

Rudder SKAGS

CAST BRONZE—PLAIN

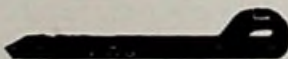


Fig. 649

Size No.	Each	Dimensions Inches	For Rudder Post Inches	Weight Pounds
0	\$10.25	24 x 1 1/2 x 3/8	3/4	4 1/2
1	16.25	30 x 1 3/4 x 1/2	3/4	9
2	30.50	42 x 2 x 3/8	1	17

New RUDDER STUFFING BOXES

CAST BRONZE—PLAIN

WITH SQUARE FLANGE—FOUR BOLT HOLES



Fig. 1088

A stuffing box to prevent leakage at rudder post entrance and a long bronze rudder post bearing to assure smooth rudder operation.

For Diam. Post Inches	Each	Size Flange Inches	Length Bearing Inches	Drilled For Fastening Inches	Weight Pounds
1	\$12.00	3 3/4 x 3 3/4	5 1/4	3/8	3
1 1/8	13.60	3 3/4 x 3 3/4	5 5/8	3/8	3 1/2
1 1/4	15.00	3 3/4 x 3 3/4	6 1/4	3/8	4

Standard Package, 6*

RUDDER STUFFING BOXES

CAST BRONZE—PLAIN

WITH OVAL FLANGE—TWO BOLT HOLES



Fig. 1089

Eliminates leakage at rudder post entrance through the hull.

Bronze bearing is full length of casting. Assures smooth action with minimum wear.

Size Inches	Each	Size Flange Inches	Length Bearing Inches	Drilled for Fastening Inches	Weight Pounds
3/4	\$11.50	4 x 2	5 1/8	5/16	3
7/8	12.00	4 1/4 x 2 1/4	5 3/8	3/8	3 1/4
1	12.50	4 1/4 x 2 1/2	5 1/4	3/8	3 1/2
1 1/8	13.75	5 x 2 3/8	5 1/4	1/2	3 3/4
1 1/4	18.25	5 3/4 x 3	6 3/8	1/2	5 1/2
1 3/8	19.25	6 1/4 x 3 1/4	6 3/4	1/2	6 1/2
1 1/2	21.00	6 1/2 x 3 1/2	6 3/4	1/2	6 3/4

Standard Package, 6*



Rudder Brace PINTLES
CAST BRONZE

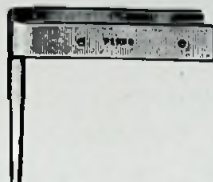


Fig. 1071

Size No.	Burnished Each	Between Straps Inches	Length Straps Inches	Width Straps Inches	Weight Ounces
00	\$.95	5/8	2 7/8	3/4	8
0	1.25	3/4	3 1/2	7/8	9
1	1.60	7/8	4 1/4	7/8	10
2	2.25	1	4 1/2	1	11
3	2.85	1 1/4	4 3/4	1	13
4	4.90	1 1/2	5 1/2	1 1/4	22

Sizes No. 00 to No. 1 inclusive have machined straight shank. Larger sizes have tapered shank.

Rudder Brace GUDGEONS
CAST BRONZE
STRAP TYPE



Fig. 1070

Size No.	Burnished Each	Between Straps Inches	Length Straps Inches	I. D. Hole Minimum Inches	Weight Ounces
00	\$.80	3/8	2	1/2	4
0	1.10	3/4	2 1/2	1/2	5
1	1.50	7/8	3	1/2	6 1/2
2	2.15	1	3	5/8	7
3	2.30	1 1/4	3 1/4	5/8	8
4	3.75	1 1/2	3 3/4	3/4	15

WIDE PLATE TYPE



Fig. 1073

Size No.	Burnished Each	Length Plate Inches	Width Plate Inches	I. D. Hole Minimum Inches	Weight Ounces
00	\$.85	3 1/2	3/4	1/2	3
0	.90	3 1/2	3/4	1/2	3
1	1.10	3 3/4	3/4	1/2	4
2	1.50	4 1/4	1	3/4	6
3	1.80	4 3/4	1 1/4	3/4	8
4	1.90	4 3/4	1 1/4	1 1/8	9

Standard Package, All Above Rudder Fittings, 12*

Aluminum RACING FIN
CAST SILICON ALUMINUM



Fig. 189

Length Overall Inches	Depth Blade Inches	Size Flange Inches	Weight Lbs.
9 1/4	5	2 3/4 x 9 1/4	1
		Undrilled Each	\$3.00
		Drilled Each	\$3.75

Drilled fin supplied unless otherwise specified. Standard Package, 12*

ELECTROLYSIS COLLARS
STREAMLINED ZINC DIE CASTINGS
PRECISION MADE AND BALANCED



Fig. 252

The electrolysis collar is the least expensive way of protecting the most expensive parts of any boat against electrolytic action.

It is a precision made collar of pure zinc designed to fit properly on any propeller shaft regardless of shaft R.P.M.

These collars can be easily and almost instantly installed by anyone. They are doweled, so the two halves will always locate themselves.

These collars not only protect vital underwater fittings such as propellers, struts, shafts, strut bolts, but stop pitting of all underwater fastenings.

No.	Each	Shaft Size Inches	Length Overall Inches	Diam. Overall Inches	Weight Pounds
1	\$ 3.00	3/4	2	2	3/4
2	3.00	7/8	2	2	3/4
3	3.50	1	2 1/4	2 1/4	1 1/8
4	3.50	1 1/8	2 1/4	2 1/4	1 1/8
5	3.50	1 1/4	2 1/4	2 1/4	1 1/8
6	4.00	1 3/8	2 3/4	2 1/2	1 3/8
7	4.00	1 1/2	2 3/4	2 1/2	1 3/8
8	5.00	1 3/4	2 7/8	3 1/4	2 1/2
9	5.00	2	2 7/8	3 1/4	2 1/2
10	10.00	2 1/2	1 3/4	5	4
11	10.00	3	1 3/4	5	4

Standard Package, 12*

ELECTROLYSIS ELIMINATORS
PURE ZINC

A necessity if the boat is used in salt water. Streamlined for mounting on the deadwood or planking. Arrests electrolysis of under water brass fittings.

CAST TYPE



Fig. 244

No.	Each	Length Inches	Width Inches	Depth Inches	Weight Pounds
1	\$.90	3 1/2	1 3/4	3/4	1/2
2	1.10	5 1/4	2 1/2	1	1 1/2

DIE CAST TYPE



Fig. 253

Precision made, smooth and uniform. So designed that they can easily be divided into two identical parts if smaller sizes are desired.

No.	Each	Dimensions Inches	Weight Pounds
3	\$1.85	5x2 3/4	1 1/2
4	4.50	8x4	4

Standard Package, 12*

IMPROVED OUTBOARD STEERERS

FOR THRU-DASHBOARD OR UNDER DASHBOARD MOUNTING

MADE IN ACCORDANCE WITH O.B.C. STANDARDS MANUAL, 1959 EDITION

BRILLIANT COLORS — MODERN STYLING — CHROMIUM PLATED HOUSING — NYLON BEARINGS

A VERY ATTRACTIVE WHEEL OF MODERN DEEP DISH, 2-SPOKE DESIGN WITH MOULDED FINGER GRIPS FOR EASE OF HANDLING.

HOUSING IS PERFECTLY ENGINEERED, HIGH GRADE PRECISION DIE CASTING, POLISHED AND CHROMIUM PLATED. BEARINGS ARE NYLON, ASSURING SMOOTH OPERATION.



SOLID COLORS
 IVORY
 RED
 GREEN
 EVINRUDE BLUE
 JOHNSON BRONZE

each, \$15.95
 As Illustrated

TWO TONE COLORS
 IVORY and RED
 IVORY and BLUE
 IVORY and CHARCOAL
 IVORY and GREEN

each, \$16.95
 See Note Below

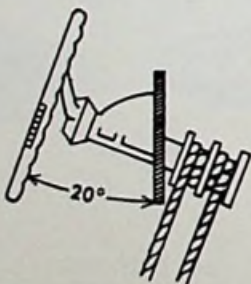


FIG. 1270

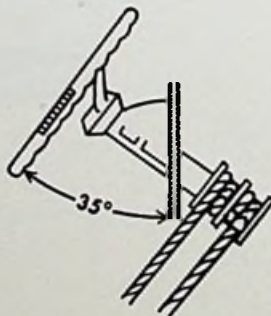


FIG. 1271



FOR ANGLE DASH
 FIG. 1272

Outside Diameter Wheel Inches	Length Overall Inches	Length Dash To Grip of Wheel Inches	Diameter Score of Drum Inches	Diameter Overall of Drum Inches	Weight Pounds
15	12 $\frac{5}{8}$	7 $\frac{1}{2}$	2 $\frac{1}{2}$	3 $\frac{3}{4}$	7 $\frac{1}{4}$

NOTE—All two tone wheels have hub medallion illustrated on Fig. 1200 Page 103. A solid ivory wheel with Fig. 1200 medallion is available with above steerer, complete each, \$16.50.

Special colors or color combinations can be supplied in quantity. Details on application.

Standard Package, 12 ††



NEW "FLYING P" OUTBOARD STEERERS

FOR THRU-DASHBOARD MOUNTING

ANGLE ADJUSTABLE FROM 0 TO 35 DEGREES

MADE IN ACCORDANCE WITH O.B.C. STANDARDS MANUAL 1959 EDITION

MODERN DEEP DISH 2-SPOKE WHEEL IN SOLID OR TWO TONE COLORS

PRECISION DIE CAST HOUSING AND DRUM-NYLON BEARINGS

DASHBOARD HOUSING IS POLISHED CHROMIUM PLATED



Fig. 1200

WITH SOLID IVORY COLORED WHEEL, EACH \$18.50

WITH TWO TONE COLORED WHEEL, EACH, \$18.95

TWO TONE COLORS ARE

IVORY AND RED

IVORY AND BLUE

IVORY AND CHARCOAL

IVORY AND GREEN

NOTE—Special colors or color combinations can be supplied in quantity. Details on application.

Outside Diameter Wheel Inches	Length Overall Inches	Length Dash To Grip of Wheel Inches	Width Housing Inches	Height Housing Inches	Diameter Score of Drum Inches	Diameter Overall of Drum Inches	Weight Pounds
15	12 ⁷ / ₈	7 ³ / ₈	8 ¹ / ₂	4 ⁷ / ₈	2 ¹ / ₂	3 ³ / ₄	8 ¹ / ₂

Standard Package, 12**



Chain Type STEERERS ALL BRONZE—WITH ROLLER CHAIN FOR WHEEL BOX MOUNTING

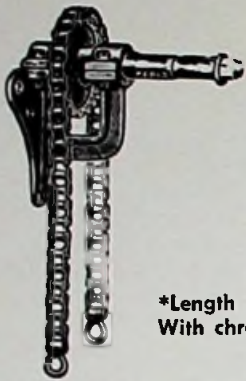


Fig. 678

No.	Wheel End of Shaft Inches	Each
1	$\frac{3}{8}$	\$50.00
2	1	50.00

*Length Shaft Inches	Dimensions of Bracket Inches	Weight Pounds
$2\frac{1}{8}$	$6 \times 5\frac{1}{2}$	11

*Length between bracket and wheel.
With chromium plated nut add \$.75 each.

Chain only, without Shackles, per foot	\$5.50
Chain Shackles, each	1.00
Acorn Nuts, each	2.00
Sprocket only, each	6.00

Sprocket, $4\frac{3}{8}$ inch diameter, 21 teeth.
Chain, 36 inches long, $\frac{3}{8}$ inch pitch.
Shaft machined for hub $2\frac{1}{8}$ inches thick.

Wheels for above see Figs. 657, 914 and 976, Sizes 4, 5 and 6.

Special machining of shaft, on application.
Supplied with reversed shaft for thru-bulkhead mounting at above prices, please specify.

Chain Type STEERERS WITH FIG. 976 CAST BRONZE WHEEL POLISHED OR CHROMIUM PLATED



Fig. 674

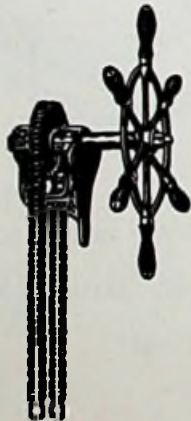


Fig. 675

Diameter Wheel Inches	Polished Bronze Each	Chromium Plated Each	Machined Wheel End of Shaft Inches	Diam. Shaft Inches
16	\$68.75	\$74.75	$\frac{3}{8}$	1
20	77.00	85.00	$\frac{3}{8}$	1
24	94.00	103.00	1	1

Wheel, shaft and nut only are polished or plated, balance of steerer is plain bronze.

NOTE—Both of the above steerers can be supplied with Fig. 914 wheel. For price, add the difference between Figs. 976 and 914, sizes No. 1, 2 or 3.

Universal Worm Geared STEERER CAST BRONZE HOUSING—ALL BRONZE GEARS

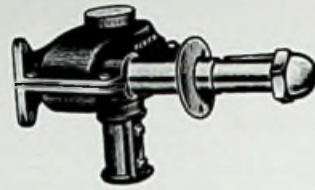


Fig. 524

A completely universal steerer in all respects. Can be operated either right or left hand and wheel shaft may be quickly and easily reversed for wheel box or thru-bulkhead mounting.

For rudder of 4 square foot area.

For 1 inch diameter vertical shaft.

Each	Diam. Wheel Shaft Inches	*Length Wheel Shaft Inches	Length For Hub Inches	Size Bracket Overall Inches	Weight Pounds
\$70.00	1	3	$2\frac{1}{8}$	$5 \times 2\frac{3}{4}$	$7\frac{1}{2}$

With Chromium plated nut and plate add \$1.00.

*Length between box and wheel.

WITH WHEEL AND FITTINGS ALL BRONZE WITHOUT VERTICAL SHAFT

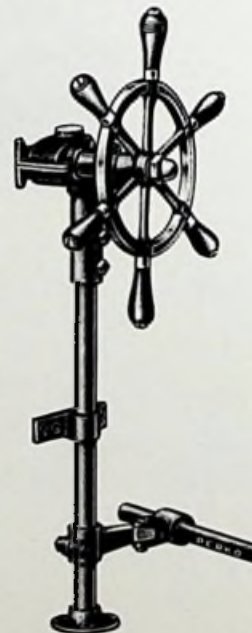


Fig. 820

No.	With Polished Bronze Wheel Each	With Chromium Plated Wheel Each	Diameter Wheel Inches	Weight Pounds
1	\$116.00	\$123.00	16	22
2	123.50	132.50	20	25
3	142.00	152.00	24	29

Wheel used is Fig. 976 sizes 4, 5 or 6.

If preferred with wheel Figs. 657 or 914 add difference in price of wheel only.

Other spare parts see Fig. 865 Part Nos. 1, 5, 6 & 8.



Drum STEERERS

GALVANIZED CAST IRON OR CAST BRONZE FOR TILLER ROPE



Fig. 661

Diam. Overall Inches	Galv. Each	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Diam. Drum Inches	Length Drum Inches
12	\$ 9.50	\$15.00	\$17.75	3 $\frac{3}{8}$ x3 $\frac{3}{8}$	2 $\frac{1}{2}$	3
16	13.00	22.30	26.75	4 x4	2 $\frac{3}{8}$	3 $\frac{3}{8}$
20	21.90	38.80	43.00	5 $\frac{1}{8}$ x5 $\frac{1}{8}$	3 $\frac{3}{8}$	4 $\frac{1}{8}$

SPARE PARTS

	12 inch		16 inch		20 inch	
	Galv. Each	Bronze Each	Galv. Each	Bronze Each	Galv. Each	Bronze Each
Posts with Back Plates	\$1.80	\$3.15	\$3.00	\$4.20	\$5.20	\$7.50
Wood Drums	.90	.90	1.60	1.60	5.00	5.00
Acorn Nuts	.50	.75	.50	1.35	.50	1.90
*Wheel Only	4.00	5.75	5.75	9.25	8.50	12.50
Grips Only	.30	.30	.35	.35	.45	.45
Bolts Only	.30	.55	.40	.65	.40	.80

*Does not include handles or bolts.

Standard Package 6*

STEERING WHEELS
CAST BRONZE—WOOD GRIPS
1/4 INCH KEYWAY



Fig. 976

With Short Hub for Steerers Figs. 674 and 675

No.	Diam. Overall Inches	Polished Bronze Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Weight Pounds
1	16	\$18.75	\$24.75	3/8	1	4
2	20	27.00	35.00	3/8	1	6 $\frac{1}{2}$
3	24	44.00	53.00	1	1 $\frac{1}{2}$	10 $\frac{1}{2}$

With Long Hub for Steerers Figs. 524 and 678

No.	Diam. Overall Inches	Polished Bronze Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Wt. Lbs.
4	16	\$23.00	\$29.00	3/4, 3/8 or 1	2 $\frac{1}{8}$	4 $\frac{1}{4}$
5	20	31.50	39.50	3/4, 3/8 or 1	2 $\frac{1}{2}$	7 $\frac{1}{2}$
6	24	49.00	58.00	1	2 $\frac{3}{8}$	11

Standard Package, 6*

STEERING WHEELS

BRASS—WOOD GRIPS—ROUND SPOKES
1/4 INCH KEYWAY



Fig. 914

With Short Hub for Steerers Figs. 674 and 675

No.	Diam. Overall Inches	Polished Brass Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Weight Pounds
1	16	\$26.50	\$32.00	3/8	1	4 $\frac{1}{4}$
2	20	31.00	37.50	3/8	1	5 $\frac{1}{4}$
3	24	38.00	46.50	1	1 $\frac{1}{4}$	6 $\frac{1}{4}$

With Long Hub for Steerers Figs. 524 and 678

No.	Diam. Overall Inches	Polished Brass Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Wt. Lbs.
4	16	\$29.50	\$35.75	3/4, 3/8 or 1	2 $\frac{1}{8}$	4 $\frac{1}{4}$
5	20	36.50	43.00	3/4, 3/8 or 1	2 $\frac{1}{8}$	6 $\frac{1}{4}$
6	24	44.00	52.50	1	2 $\frac{1}{8}$	7

Standard Package, 6*

Mahogany STEERING WHEELS

WITH PLUGGED OR INLAID RIM
CAST BRONZE HUB—POLISHED



Fig. 657

Diam. Overall Inches	Plugged Each	Inlaid Each	For Shaft Inches	Size Keyway Inches	Thickness of Hub Inches	No. of Spokes
*18	\$43.50	\$49.00	3/8 or 1	1/4	2 $\frac{1}{8}$	6
*20	46.50	54.00	3/8 or 1	1/4	2 $\frac{1}{8}$	6
*24	54.25	60.50	1	1/4	2 $\frac{1}{8}$	6
28	70.75	76.00	1	1/4	2 $\frac{1}{8}$	6
30	77.50	86.00	1	3/8	2 $\frac{1}{4}$	8
32	91.00	103.50	1 $\frac{1}{4}$	3/8	2 $\frac{1}{4}$	8
36	122.00	136.50	1 $\frac{1}{2}$	3/8	2 $\frac{1}{2}$	8
42	141.00	156.00	1 $\frac{1}{2}$	3/8	2 $\frac{1}{2}$	8
48	160.00	174.00	1 $\frac{3}{8}$	3/8	3	8
54	198.00	212.50	1 $\frac{3}{8}$	3/8	3	8
60	225.50	240.00	1 $\frac{3}{8}$	3/8	3	10

*These sizes with chromium plated hub carried in stock, add \$5.50 each.

Larger sizes with chromium plated hub made to order only, add \$7.00 each.

NOTE—Shaft sizes above are stock bores, special boring supplied to order, price on application.

Wheel with inlaid hub supplied unless otherwise specified.



IMPROVED "Perkomatic" CONTROLS FOR THROTTLE AND CLUTCH CAST BRONZE—CHROMIUM PLATED FULLY ADJUSTABLE



Fig. 698

- No. 1 — C—For single clutch
- No. 1 — T—For single throttle
- No. 2 — CT—For clutch and throttle
- No. 2 — C—For double clutch
- No. 2 — T—For double throttle

IMPROVEMENTS

No. 1 — A removable plate on top of housing permitting access to interior after installation for making various adjustments in tension, length of throw etc., also easier lubrication.

No. 2 — Levers redesigned for additional strength and made longer for added leverage. The clutch lever has removable extension if shorter length is desirable.

No. 3 — A mounting flange added to housing for easier installation.

No. 4 — A stronger and longer type of cable bracket for use with various types of ball jointed control cables. This bracket extends 8 1/4 inches below the housing.

Designed for easy operation and positive control of inboard engine throttles and hydraulic clutches.

The control with large knob for clutch, with small knob for throttle. The tension on both handles is adjustable to suit individual needs.

For push and pull operation and for use with the high quality modern control cable illustrated.

The price does not include control cable.

No.	Each	Length Housing Inches	Width Base Inches	Height Housing Inches	Height Overall Inches	Weight Pounds
1	\$31.00	5 3/4	4 1/4	3	6 7/8	4 1/4
2	40.00	5 3/4	4 1/4	3	6 7/8	5

Standard Package, 6**

Flexible CONTROL CABLES 1/4-28 THREAD NEOPRENE COVERED—PUSH-PULL TYPE

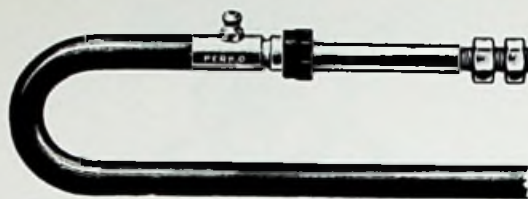


Fig. 699

Length Feet	Each	Length Feet	Each
8	\$17.75	14	\$26.50
10	19.75	16	28.60
12	22.00	18	31.00

Shorter or longer lengths supplied to order. Price on application.

Clutch CONTROLS

CAST BRONZE—FOR 1 INCH SHAFT

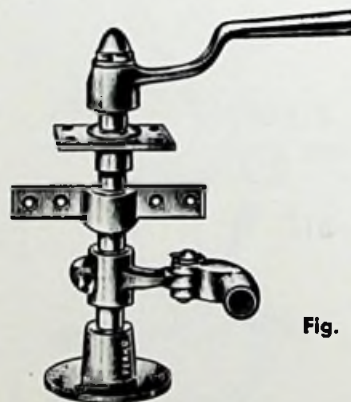


Fig. 822

Supplied with bulkhead bracket or shelf plate (please specify). Shaft is not included.

With 8" Handle Polished Bronze Per Set	With 8" Handle— Chromium Plated Per Set	With 10" Handle Polished Bronze Per Set	With 10" Handle— Chromium Plated Per Set	With 12" Handle Polished Bronze Per Set	With 12" Handle— Chromium Plated Per Set
\$35.00	\$42.00	\$36.50	\$43.50	\$38.00	\$45.50

SPARE PARTS

	Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each
Acorn Nut		\$2.35	\$2.90
Shelf Plate, Fig. 865 No. 9		5.75	7.50
Bulkhead Bracket, Fig. 865 No. 6		6.00	8.00
Lever, Fig. 865 No. 3	\$7.75		
Clevis, Fig. 865 No. 4	6.90		
Lower Bearing, Fig. 865 No. 11	4.40		



Reverse Gear CONTROLS
CAST BRONZE



Fig. 278

An ideal control for light installations, such as run-about small cruisers, etc. Clevis supplied for 1/2 inch pipe.

Polished Bronze Per Set	Chromium Plated Per Set	Length Overall Inches	Length Handle Inches	Size Base Inches	Weight Pounds
\$17.00	\$21.50	20	16	4 3/4 x 2 1/2	3 1/2

Standard Package, 6**

Spare clevises, see Fig. 865 Part No. 2.

Reverse Gear CONTROLS
HEAVY CAST BRONZE—POLISHED
FOR 1 INCH OR 1 1/8 INCH SHAFT

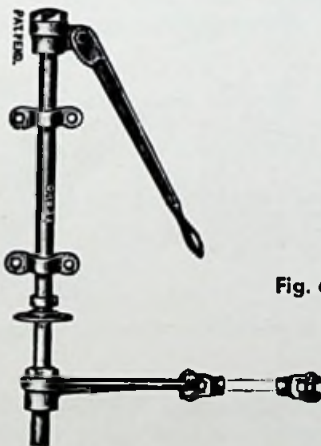


Fig. 664

Length Handle Inches	Length Lower Lever Inches	Sockets Threaded For Rod Inches	Bulkhead to Center of Shaft Inches	Weight Without Shaft Pounds
18	10	3/4	2	13 1/4

Fittings complete—except shaft	\$35.00
Handle complete with tapered bushing and nut	18.00
Lever complete with tapered bushing and nut	18.00

Chromium plated, add 25% to above price.

Specify size of shaft when ordering; parts for 1 inch shaft supplied unless otherwise specified.

Clutch Control HANDLES
CAST BRONZE—FOR 1 INCH SHAFT

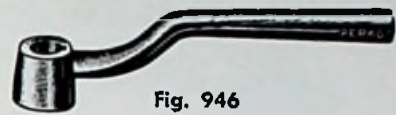


Fig. 946

Used with Fig. 822 clutch control.

Length from Center of Bore Inches	Polished Bronze Each	Chromium Plated Each	Weight Pounds
8	\$ 9.50	\$13.00	1 1/4
10	11.00	14.50	2
12	12.50	16.25	2 1/2

Throttle CONTROLS
RATCHET TYPE—CAST BRONZE



Fig. 715

For

Bowden Wire



Fig. 716

For

Control Rod

Knob is black bakelite.

Length of throw, 3 inches.

*Rod socket is for 1/4, 3/16, or 3/8 inch rod.

Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches	Weight Pounds
\$11.80	\$15.00	\$17.00	6	2 1/4	2

Standard Package 6*

*Supplied for 1/4 inch rod unless otherwise specified.

Spark and Throttle CONTROL
RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE



Fig. 331

Length of throw is 3 inches.

Rod sockets are for 1/4, 3/16 or 3/8 inch rod.

Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches	Weight Pounds
\$15.25	\$17.75	6	2 1/4	2 1/4

Standard Package, 6*

Supplied for 3/16 inch rod unless otherwise specified.



"Sea-Way" Throttle CONTROLS

RATCHET TYPE—FOR 3/8 INCH ROD
CAST BRONZE — CHROMIUM PLATED



Fig. 847

A powerful control with a man sized handle. For mounting on top of wheel box or shelf.

A spring type ratchet inside handle hub holds control at desired position.

Chromium Plated Each	Length Handle Inches	For Diam. Rod Inches	Diam. Flange Inches	Weight Pounds
\$11.50	4 1/2	3/8	2 3/8	1

"Sea-Prince" Throttle CONTROLS

RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE — CHROMIUM PLATED



Fig. 848

Same design and ability as the Sea-Way Control above but fitted with lever arm and socket for mounting on side of wheel box or bulkhead.

Length of throw is 5 inches.

Rod socket is for 1/4, 3/8 or 1/2 inch rod.

Chromium Plated Each	Length Handle Inches	Length Lever Arm Inches	Diam. Flange Inches	Weight Pounds
\$12.50	4 1/2	3 1/2	2 3/8	1

Supplied for 3/8 inch rod unless otherwise specified.

Control CRANKS

BURNISHED CAST BRONZE—FOR CONTROL ROD



Side Type
Fig. 636

Length Arms Inches	Height Overall Inches	Size Base Inches	Weight Single Ounces	Weight Double Ounces
2	2 3/4	2 1/4 x 3/8	5	7
For Rod Inches	Single Complete Each	Double Complete Each	Cranks Only Each	Brackets Only Each
1/4	\$2.35	\$3.60	\$.60	\$.85
3/8	2.35	3.60	.60	.85
1/2	2.50	3.90	.60	.85

Supplied for 1/4 inch rod unless otherwise specified.



Upright Type
Fig. 637

Spark and Throttle CONTROLS

RATCHET TYPE—FOR CONTROL WIRE
CAST BRONZE

Length of throw is 3 inches.

Length Arc Inches	Extreme Projection Inches	Mounting Plate Inches	Weight Pounds
2 3/8	5	1 1/8 x 1 3/8	3/4
	Polished Bronze Each	Chromium Plated Each	
Single	\$ 7.60	\$10.00	
Double	10.50	13.25	

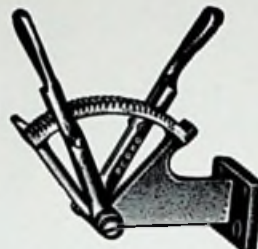


Fig. 409

Spark and Throttle CONTROLS

RATCHET TYPE—CAST BRONZE
FOR CONTROL ROD OR BOWDEN WIRE

Size Frame Inches	Weight Pounds
6x3	1 3/4
Polished Bronze Each	Chromium Plated Each
\$10.50	\$13.50

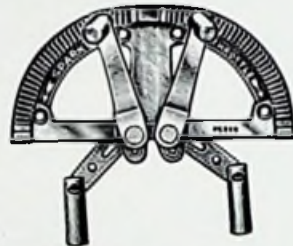


Fig. 691—For Rod
Fig. 691-A—For Wire

For bulkhead up to 2 inches thick.

Length of throw, 3 inches.

Rod sockets are for 1/4, 3/8 or 1/2 inch rod.

Supplied for 1/4 inch rod unless otherwise specified.

Spark and Throttle CONTROLS

RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE—ADJUSTABLE

Dimensions of Base Inches	Dimensions of Frame Inches	Weight Ounces
2 x 3/8	4 1/2 x 3 3/4	10
Polished Bronze Each	Chromium Plated Each	
6.75	9.75	



Fig. 904

Control LEVERS

PLAIN BRASS



Fig. 354

No.	Each	Length Overall Inches	For Shaft Inches	For Clevis Pin Inches	Weight Ounces
1	\$1.00	2 3/8	3/8	3/32	1 1/4
2	1.50	3 3/4	3/8	3/32	1 1/2

Size No. 1 is used on controls Figs. 691 and 691-A.
Size No. 2 is used on control Fig. 848.



Dashboard Choke CONTROLS
BRASS CHROMIUM PLATED HANDLE
WITH BRASS CASING AND WIRE



Fig. 371

5 Ft. Lengths Per Set	7 Ft. Lengths Per Set	10 Ft. Lengths Per Set	15 Ft. Lengths Per Set
\$5.25	\$6.00	\$7.35	\$9.25

Standard Package, 6*

Bowden WIRE AND CASING
BRASS
1/4 INCH O.D. CASING—LEFT HAND LAY
WIRE DIAMETER .072 INCHES



Fig. 353

Stock Lengths in Feet	Complete	Casing Only	Wire Only
5	\$2.25	\$1.95	\$.30
7	3.05	2.65	.45
10	4.30	3.75	.55
15	6.15	5.50	.65
25	9.75	8.60	1.15
50	17.85	15.75	2.10

Standard Package, 5 Lengths*

Improved CONTROL WIRE HANDLES
FOR CASING WITH RIGHT OR LEFT HAND LAY
ALL BRASS—CHROMIUM PLATED

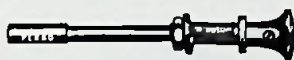


Fig. 692

Control wire and casing can be easily attached. No soldering necessary, wire held by set screw in knob. Casing threaded into tube. For use on a dash or bulkhead up to 2 inches thick.

Each	Length Overall Closed Inches	Outside Diam. Stem Inches	Weight Ounces
\$2.75	4 7/8	3/8	2

Standard Package 6

Left hand thread supplied unless otherwise specified.

Bowden Casing CLAMP
BRASS—SWIVEL TYPE—PLAIN



Will hold control casing firmly while swivel feature allows smooth sliding of control wire in casing at any angle.

Each	Size Base Inches	Weight Ounces
\$.85	2 1/4 x 1	3

Standard Package, 25

Fig. 352

CONTROL ROD SOCKETS
PLAIN BRASS



Fig. 328

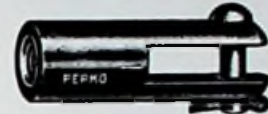


Fig. 295



Fig. 298

Standard Fig. 328

No.	Each	Tapped For Rod Inches	Outside Diam. Inches	Length Overall Inches	Between Jaws Inches	Length Jaws Inches
1	\$.45	1/4-20	3/8	1 5/8	3/8	5/8
2	.45	5/16-18	7/16	1 5/8	3/8	3/8
3	.50	3/8-16	1/2	1 5/8	1/4	3/4

Heavy Duty Fig. 295

4	\$.55	1/4-20	1/2	1 5/8	1/4	3/4
4-A	.60	1/4-28	1/2	1 3/4	1/4	3/4
5	.65	5/16-18	1/2	1 3/4	1/4	3/4
6	.65	3/8-16	1/2	1 7/8	1/4	1 1/8

Heavy Duty Fig. 298

7	\$.65	1/4-20	3/8	1 3/8	1/4	3/8
8	.65	5/16-18	3/8	1 3/8	1/4	3/8
9	.65	1/4-28	3/8	1 3/8	1/4	3/8

Length jaws measured to center of pin

Standard Package, 12*

Control Wire SOCKETS
PLAIN BRASS

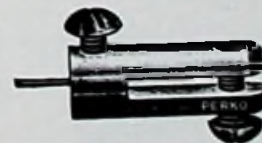


Fig. 679

Complete with brass set screws.

No.	Each	Length Inches	Diameter Inches	Between Jaws Inches	Length Jaws Inches	Weight Ounces
1	\$.45	1	3/8	1/8	1/2	1/2
2	.60	1 7/8	1/2	1/4	1 1/8	3/4

Standard Package, 12*

Length jaws measured to center of screw.



STEERER AND CONTROL PARTS CAST BRONZE

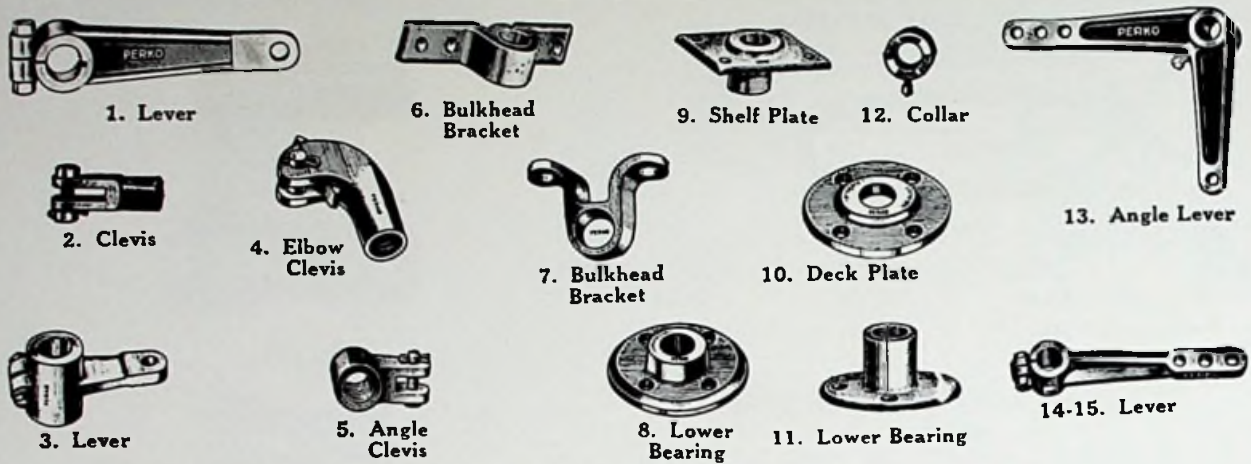


Fig. 865

No.	Item	Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Length C. to C. Inches	For Diam. Shaft Inches	For Diam. Pin Inches	Diam. Bolt Inches	Tapped For Rod Inches	Tapped For Pipe Inches	Width Jaw Inches	Width Base Inches	Diam. Flange Inches	Weight Pounds
1	Lever	\$8.90			8	6	1	1/2							1 3/4
1-A	Lever	10.00			10	16-7-8	1	1/2							2 1/2
1-B	Lever	10.00			10	16-7-8	1 1/8	1/2							2 1/4
1-C	Lever	10.00			10	16-7-8	1 1/4	1/2							2 1/4
2	Clevis	3.15			2 1/2				1/2	3/4		1/2			1/2
2-A	Clevis	3.15			2 1/2				1/2		1/2	1/2			1/2
2-B	Clevis	4.00			4 1/4				1/2	3/4		1/2			1
2-C	Clevis	4.00			4 1/4			1	1/2		1/2	1/2			1
3	Lever	7.75			4 1/2	2 3/4	1	1/2	3/8						1
4	Clevis	6.90			3 1/2				1/2		3/4	1/2			1
4-A	Clevis	6.90			3 1/2				1/2	1		1/2			1
5	Clevis	4.75			3				1/2		3/4	1/2			3/4
5-A	Clevis	4.75			3				1/2	1		1/2			3/4
6	Bracket		\$6.00	\$8.00	6 1/4		1						1		3/4
7	Bracket		6.00	8.00	4 1/4		1						1		3/4
7-A	Bracket		6.00	8.00	4 1/4		1 1/8						1		3/4
8	Bearing	4.30					1							3 1/2	3/4
9	Shelf Plate		5.75	7.50	3 3/4		1					3 1/4			1 1/4
10	Deck Plate		4.60	5.75			1							4	1/2
10-A	Deck Plate		4.60	5.75			1 1/8							4	1/2
11	Bearing	4.40					1							3 3/4	1
12	Collar		2.55	3.40			1								1/4
12-A	Collar		2.55	3.40			1 1/8								1/4
13	Lever	10.90				*6-7-8	1	1/2							2
14	Lever	8.00				**5-6	3/4	1/2	5/16						1
15	Lever	9.20				5-6-7	1	1/2	3/8						1 1/2

Depth of Bearing—No. 8, 3/8 inches—No. 9, 1 inch—No. 11, 1 1/4 inches.

*This applies to long arm. Length short arm center to center, 6 inches.

**No. 14 has two pin holes instead of three illustrated.

†Nos. 1-A, 1-B, 1-C, are of heavy construction like No. 1, and with three pin holes like No. 15.

Brass BALL JOINTS

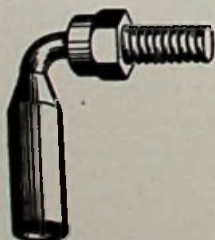


Fig. 792



Fig. 793

Fig. 793 is adjustable for wear. Spring tension around ball with screw for adjusting.

No.	Fig. 792 Each	Fig. 793 Each	Thread Inches	Length Thread Inches	O. D. Female End Inches	Weight Ounces
1	\$.50	\$.70	1/4-20	1/2	3/16	1/2
2	.60	.80	3/16-18	1/2	3/16	1
3	.60	.80	1/4-28	1/2	3/16	1 1/2

Standard Package, 25*



Gy-A-Liner ENGINE ALIGNERS

U. S. PATENT NOS. 2123484—2170690—2164615

A simple way to accurate engine alignment. "Gy-A-Liner" consists of leveling wedges made of cast iron. Designed for self adjustment with a few turns on the take-up bolts that anyone can do with accuracy.

Baked Enamel Finish—All Bolts Galvanized.



Fig. 1097

For use under motors having only single corner bed bolts. Can be used under intermediate propeller shaft bearings.

Each	Size Base Inches	Minimum Height Inches	Maximum Height Inches	For Engine Bolt Inches	Weight Pounds
\$2.50	2 1/2 x 2 1/2	5/8	1 1/8	1/2	3/4

Standard Package, 12

Flat BEARINGS

GRAY IRON—BABBITTED



Fig. 789

For Shaft Size Inches	Each	Dimensions of Base Inches	C. to C. Bolt Holes Inches	Diam. Bolt Holes Inches	Weight Pounds
3/4	\$ 5.50	4 1/4 x 1 3/8	3 1/2	3/8	1 1/8
7/8	5.85	4 1/4 x 4 1/4	3 3/4	3/8	1 1/4
1	5.85	4 1/2 x 1 1/2	3 3/4	3/8	1 1/2
1 1/8	6.95	5 1/4 x 1 3/8	4 1/4	3/8	2 1/2
1 1/4	6.95	5 1/2 x 1 3/8	4 1/4	3/8	2 3/4
1 3/8	8.75	5 7/8 x 1 3/8	4 3/4	3/8	3 1/2
1 1/2	8.75	6 1/4 x 2	4 3/4	3/8	4 1/4

CAST BRONZE—NOT BABBITTED

Fig. 809

For Shaft Size Inches	Each	Dimensions of Base Inches	C. to C. Bolt Holes Inches	Diam. Bolt Holes Inches	Weight Pounds
3/4	\$ 5.00	4 1/2 x 2	3 3/8	3/8	1 1/2
7/8	5.00	4 1/2 x 2	3 3/8	3/8	1 1/2
1	5.00	4 1/2 x 2	3 3/8	3/8	1 1/2

Iron Shaft COUPLINGS

CAST IRON

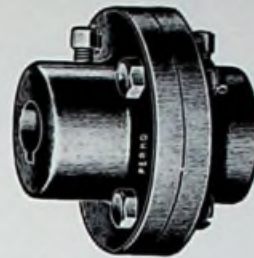


Fig. 327

No.	Each	For Diameter Shaft Inches	Diam. Flange Inches	Length Overall Inches	Wt. Lbs.
0	\$6.95	5/8, 3/4	3	2 3/4	2 1/2
1	8.70	3/4, 7/8, 1, 1 1/8	4	3 1/2	5 1/2
2	11.00	1, 1 1/8, 1 1/4, 1 3/8, 1 1/2	4 1/2	4 1/4	8

For divided sizes such as 1 x 1 1/8, add \$1.80 each.

For 1/2 coupling add \$.1.20 to half of above prices. No bolts furnished.

SIZE OF KEYWAY IN SHAFT COUPLINGS

Size Shaft Inches	Keyway Inches
5/8-3/4	3/16
3/4-1 1/8	1/4
1 1/4	3/8
1 1/2-1 3/4	1/2

Bronze Shaft COUPLINGS

CAST BRONZE—BURNISHED



Fig. 389

Set screws, bolts and washers are all bronze.

Each	For Diameter Shaft Inches	Diam. Flange Inches	Length Overall Inches	Weight Pounds
\$9.50	3/4, 7/8, 1	2 3/4	2 3/4	1 1/2

For divided sizes such as 3/4 inch one end, 1 inch the other end, add \$.50 each.

3/8 inch size has 3/16 inch keyway.

7/8 and 1 inch sizes have 1/4 inch keyway.

Sleeve Type Shaft COUPLINGS

CAST BRONZE



Fig. 378

No.	Each	For Diam. Shaft Inches	Length Inches	Keyway Inches	Weight Pounds
1	\$5.50	3/4	3	3/8	3/4
2	5.50	7/8	3	1/4	3/4
3	5.50	1	3	1/4	7/4



STUFFING BOXES CAST BRONZE—REGULAR



Fig. 320

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
3/8	\$ 5.75	3 1/2 x 1 3/4	3/8	2 1/2	2 1/2	1 1/4
3/4	6.00	4 x 1 3/4	3/8	2 5/8	2 1/2	1 1/8
3/4	6.25	4 1/4 x 1 3/4	3/4	3	2 1/2	1 1/2
1	7.85	4 1/4 x 2 1/8	3/4	3	2 5/8	1 3/4
1 1/4	8.50	4 3/4 x 2 1/4	1/2	3 3/8	2 1/2	2 1/4
1 1/4	10.50	5 1/4 x 2 3/8	1/2	4 1/8	2 5/8	2 1/2
1 1/2	11.50	6 1/4 x 3	1/2	4 3/4	3	3 1/4
1 1/2	13.00	6 1/2 x 3	1/2	5	3	3 1/2
1 1/2	19.00	7 x 3 3/4	3/4	5 1/2	4	5 1/4

Self Aligning STUFFING BOXES CAST BRONZE—RECTANGULAR FLANGE

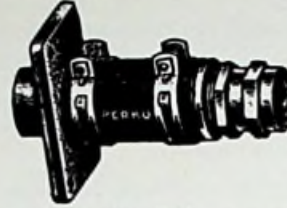


Fig. 734

No.	Each	For Shaft Inches	Size Flange Inches	Length from Flange to End of Box Inches	Weight Pounds
1	\$13.25	3/4	5 x 3 1/4	6 1/2	5
2	14.50	3/8	5 x 3 1/4	6 1/2	5
3	15.00	1	5 x 3 1/4	6 3/4	5
4	18.50	1 1/8	6 x 4 1/4	7 3/4	9
5	20.00	1 1/4	6 x 4 1/4	7 3/4	9 1/2
6	28.75	1 3/8	7 x 4 1/2	8	12 1/2
7	30.00	1 1/2	7 x 4 1/2	8 1/4	13

Extra Heavy STUFFING BOXES RECTANGULAR FLANGE—CAST BRONZE

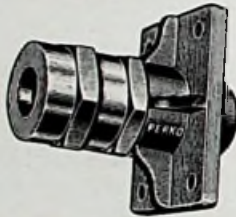


Fig. 819

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
1	\$15.50	5 x 3	1/2	3 3/4 x 1 3/4	4	5 1/2
1 1/4	16.75	5 1/2 x 3 3/8	1/2	4 1/4 x 2 1/4	4 1/4	6 1/2
1 1/4	21.50	5 5/8 x 3 3/8	1/2	4 3/8 x 2 1/4	4 1/4	6 1/2
1 1/2	26.00	6 x 4	1/2	4 1/2 x 2 1/2	5	9
1 1/2	30.00	6 x 4 3/8	1/2	4 1/2 x 3	5 1/2	10
1 3/4	39.00	6 1/2 x 4 1/2	3/4	5 1/8 x 3 3/4	7	13 1/2
2	48.00	7 3/4 x 5	3/4	5 5/8 x 3 3/8	7 3/4	15 1/2

Flax Packed STUFFING BOXES and STERN BEARINGS WITH RECTANGULAR FLANGE

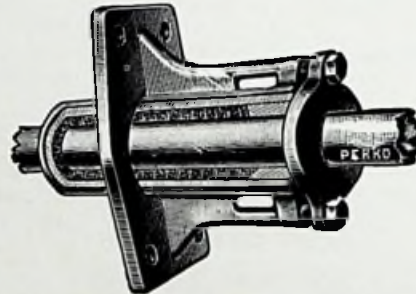


Fig. 811

Shaft Size Inches	Each	Size Flange Inches	Length Bearing Inches
1	\$21.00	5 1/4 x 3	5 1/2
1 1/4	23.00	6 x 3	5 1/2
1 1/4	31.00	6 3/4 x 3 1/2	5 3/4
1 1/2	34.00	7 x 3 3/8	5 3/4
1 1/2	45.00	7 1/2 x 4 1/4	6 1/2
1 3/4	57.00	8 1/2 x 4 1/4	6 1/2

PACKING NUTS and LOCKNUTS FOR STUFFING BOXES—CAST BRONZE BURNISHED



Fig. 73



Fig. 79

Shaft Size Inches	For Fig. 320		For Fig. 819	
	Fig. 73 Each	Fig. 79 Each	Fig. 73 Each	Fig. 79 Each
3/8	\$1.80	\$.70		
3/4	1.85	.75		
3/4	2.00	.80		
1	2.10	.90	\$4.25	\$1.80
1 1/4	2.15	1.00	4.60	1.85
1 1/4	2.45	1.10	4.85	2.00
1 1/2	2.90	1.30	5.50	2.15
1 1/2	3.85	1.50	6.00	2.15
1 1/2	4.65	2.00	7.25	2.75
2			7.85	3.00

Bronze UNIVERSAL JOINTS CAST BRONZE—BURNISHED



Fig. 93

No.	Bored Each	Tapped Each	Bored for Rod Inches	Tapped for Pipe Inches	Extreme Length Inches	Weight Pounds
1	\$9.50	\$10.00	3/4	1/2	4 1/2	1
2	13.25	14.00	1	3/4	6	2 1/4

Specify if for rod or pipe.

Standard Package, Entire Page, up to 1" size inclusive, 12**. Larger sizes 6**.

NOTE—LENGTH BEARING SHOWN DOES NOT INCLUDE PACKING NUT OR SPACE FOR PACKING.



Self Aligning SHAFT LOGS

CAST BRONZE



Fig. 671

The stuffing box and base are connected by heavy wall rubber hose which cushions the propeller shaft and reduces vibration.

LIGHTWEIGHT TYPE

No.	Each	Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Angle	Wt. Lbs.
0-L	\$11.75	5/8	9 3/8 x 2 1/2	15	12	3 1/2
1-L	11.75	3/4	9 3/8 x 2 1/2	15	12	3 1/2
3-L	14.50	1	9 1/2 x 2 7/8	15	12	3 3/4

HEAVYWEIGHT TYPE

No.	Each	Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Angle	Weight Pounds
1-H	\$15.80	3/4	12 x 3 1/2	18	13	5 1/4
2-H	16.25	7/8	12 x 3 1/2	18	13	5 1/4
3-H	17.00	1	12 x 3 1/2	18	13	5 1/4
4	30.00	1 1/8	17 x 4 1/4	23 1/2	10	10 1/4
5	32.50	1 1/4	17 x 4 1/4	23 1/2	10	10 1/4
6	48.50	1 3/8	19 x 5	28	10	17 3/4
7	48.50	1 1/2	19 x 5	28	10	17 3/4

NOTE—Sizes Nos. 0-1-2-3 in both the lightweight and heavyweight types are drilled for screws. Balance of sizes are spotted but not drilled.

STUFFING BOX AND EXTRA RUBBER HOSE FOR SELF ALIGNING SHAFT LOG AND STUFFING BOX



Fig. 672



Fig. 673



Fig. 1092

For Log No.	Size Shaft Inches	Stuffing Box Each	Hose Each	Hose Clamps Per Pair	I. D. Hose Inches	O. D. Hose Inches	Length Hose Inches
0-L	5/8	\$ 4.65	\$.90	\$.90	1 1/4	1 3/4	3 1/4
1-L	3/4	4.65	.90	.90	1 1/4	1 3/4	3 1/4
3-L	1	5.00	1.05	.90	1 1/2	1 7/8	3 1/2
1-H	3/4	5.30	1.20	1.20	1 3/4	2 1/4	4
2-H	7/8	5.60	1.20	1.20	1 3/4	2 1/4	4
3-H	1	7.00	1.20	1.20	1 3/4	2 1/4	4
4	1 1/8	11.00	1.90	1.90	2 3/8	3 1/8	5
5	1 1/4	11.75	1.90	1.90	2 3/8	3 1/8	5
6	1 3/8	15.50	2.40	2.40	2 5/8	3 1/2	5
7	1 1/2	15.50	2.40	2.40	2 5/8	3 1/2	5

Hose for Nos. 0-1-2-3 is 4 ply.

Hose for Nos. 4-5 is 6 ply.

Hose for Nos. 6-7 is 8 ply.

Standard Package, Entire Page up to No. 3 size inclusive, 12 Pieces**. Larger sizes, 6 Pieces**.

Self Aligning SHAFT LOGS

CAST BRONZE

ALLOWS INSTALLATION OF ENGINE WELL AFT



Fig. 589

Stuffing box and shaft are cushioned in rubber, reducing vibration in the hull to a minimum and eliminating excessive wear on shaft and bearing.

Base is drilled for bolts or screws.

No.	Each	For Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Angle	Wt. Lbs.
0	\$11.75	5/8 or 3/4	9x4	10	13	3 1/2
1	16.25	3/4	11x5	12 1/4	13	6
2	16.25	7/8	11x5	12 1/4	13	6
3	16.25	1	11x5	12 1/4	13	6
4	26.00	1 1/8	13x5 1/2	14 1/2	13	10
5	26.75	1 1/4	13x5 1/2	14 1/2	13	10

Adjustable SHAFT LOGS

CAST BRONZE



Fig. 577

Cast bronze ball and socket arrangement gives ample adjustment in all directions.

Range of adjustment between 12 and 25 degrees.

Flange bolts are locked with set screws.

Furnished complete with grease cup.

No.	Each	Size Shaft Inches	Length Overall Inches	Length Base Inches	Width Base Inches	Wt. Lbs.
1	\$35.50	3/4	17 3/4	14	3 3/8	11
2	35.50	7/8	17 3/4	14	3 3/8	11
3	35.50	1	17 3/4	14	3 3/8	11
6	84.00	1 3/8	28 1/2	23	5 1/4	28
7	84.00	1 1/2	28 1/2	23	5 1/4	28

Adjustable SHAFT LOGS

CAST BRONZE—EXTRA HEAVY



Fig. 627

Furnished complete with grease cup.

No.	Each	Size Shaft Inches	Length Base Inches	Width Base Inches	Weight Pounds
8	\$115.00	1 3/4	28	5 1/2	57
9	115.00	2	28	5 1/2	57



Adjustable STRUTS

WITH MARINE BABBITT BEARING
ALL CAST BRONZE

Side View

End View

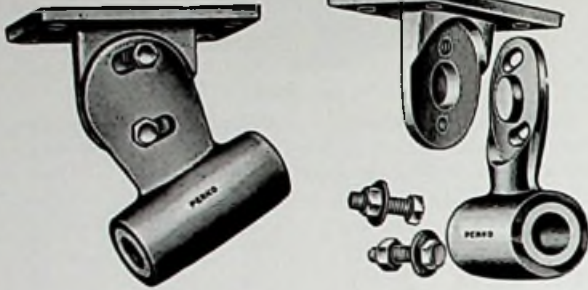


Fig. 628

Adjustable to any practical angle of the propeller shaft, held fast at necessary angle by two heavy bronze bolts. Bearing is of a special marine babbitt, the highest grade obtainable. Length of drop is figured from bottom of keel to center of shaft.

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches	Weight Pounds
3/4	3	5 1/2	4 1/8	6 1/2
3/8	3	5 1/2	4 1/8	6 1/2
1	3	5 1/2	4 1/8	6 1/2
1 1/8	3	5 1/2	4 1/8	6 1/2
1 1/4	3 1/2	6 1/2	4 1/2	12 1/2
1 3/8	3 1/2	6 1/2	4 1/2	12 1/2
1 1/2	3 1/2	6 1/2	4 1/2	12 1/2

Lgth. Drop In.	Size Shaft Inches						
	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
5	\$27.75	\$27.75	\$27.75	\$27.75			
6	\$28.60	28.60	28.60	\$42.00	\$42.00	\$42.00	
7	28.60	28.60	28.60	28.60	43.00	43.00	43.00
8	30.35	30.35	30.35	30.35	43.90	43.90	43.90
9	31.20	31.20	31.20	31.20	45.00	45.00	45.00
10	32.90	32.90	32.90	32.90	46.20	46.20	46.20
11	34.40	34.40	34.40	34.40	47.40	47.40	47.40
12					50.00	50.00	50.00

Standard Package, 6**

Specify size of shaft and length of drop, when ordering.

Brass GREASE CUPS



Fig. 961

No.	Each	Height Closed Inches	Outside Diam. Inches	Pipe Thread Inches	Capacity Ounces
1	\$.60	1 1/8	3/4	1/4	1/4
2	.90	1 3/4	1 1/8	1/2	1/2
3	1.20	2	1 3/8	3/4	3/4

Standard Package, 25*

Adjustable STRUTS

FOR CUTLESS RUBBER BEARING
CAST BRONZE—EXTRA HEAVY



Fig. 1019

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches	Weight Pounds
3/4	3	5 1/2	3	6 3/4
3/8	3	5 1/2	3 1/2	6 3/4
1	3	5 1/2	4	6 3/4
1 1/8	3	5 1/2	4 1/2	6 3/4
1 1/4	3 1/2	6 1/2	5	12
1 3/8	3 1/2	6 1/2	5 1/2	12
1 1/2	3 1/2	6 1/2	6	12

PRICES BELOW DO NOT INCLUDE RUBBER BEARING
For bearings see Fig. 1021.

Use bearings having the smallest outside diameter listed.

Lgth. Drop In.	Size Shaft Inches						
	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
5	\$27.20	\$27.75	\$28.30	\$28.60			
6	28.00	28.60	29.20	29.75	\$40.45	\$41.60	\$42.75
7	28.90	29.50	30.00	30.60	41.30	42.45	43.60
8	29.75	30.30	30.90	31.50	42.20	43.30	44.50
9			31.75	32.35	43.00	44.20	45.30
10			33.50	34.10	44.50	45.30	46.50
11					47.00	47.65	48.80
12					49.40	50.00	51.40

Standard Package, 6**

Specify size of shaft and length of drop, when ordering.
If desired, complete with rubber bearing, please specify.

Safety SHAFT COLLARS

MILLED BAR STEEL—MACHINED



Fig. 787

Size Shaft Inches	Each	Outside Diameter Inches	Width Inches	Weight Ounces
5/8	\$.50	1 1/2	1/2	1 1/2
3/4	.55	1 3/4	3/4	2
7/8	.65	1 7/8	3/4	3
1	.75	2	3/4	3 1/2
1 1/8	1.00	2 1/4	3/4	4
1 1/4	1.15	2 1/2	3/4	5 1/2
1 3/8	1.25	2 3/4	3/4	6 1/2
1 1/2	1.35	2 7/8	3/4	7
1 3/4	1.90	3 1/4	3/4	13
2	3.15	3 3/4	3/4	15



B. F. GOODRICH CUTLESS RUBBER BEARINGS OIL RESISTING



Standard Cutless Bearing with bronze shell

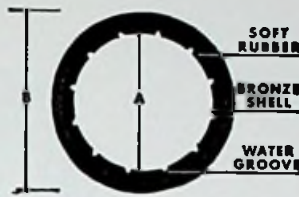


Fig. 1021

Often Outlast Hard Surface Bearings 15 Times

- Efficiently lubricated by water.
- Resist sand and grit.
- No scoring of shaft.
- Reduce vibration and noise.
- Least possible friction.
- Easy to install.

STANDARD BEARINGS STOCK SIZES—TABLE OF DIMENSIONS, WEIGHTS AND PRICES

Sizes Shown Here are in Stock for Immediate Shipment

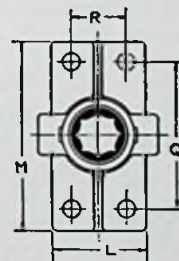
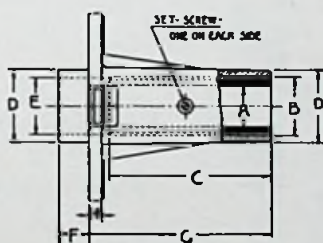
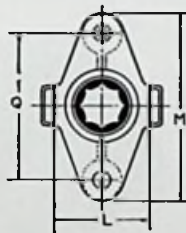
Code	A—Shaft Diameter	B—Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.	Code	A—Shaft Diameter	B—Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.	Code	A—Shaft Diameter	B—Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.
Kale	3/4"	1 1/4"	3"	3/4	\$ 6.70	\$2.49	Kitem	1 1/2"	2 3/4"	7 1/2"	3 3/4	\$22.90	\$3.67	Nephew	3 3/4"	4 1/2"	14 1/2"	12 3/4	\$61.70	\$5.12
Koly	3/8"	1 3/8"	3 1/2"	3/4	7.80	2.49	Kitez	1 3/4"	2 3/4"	7 1/2"	4	22.90	3.67	Neptune	3 3/4"	4 1/2"	15"	10 1/2	68.50	5.50
Katz	3/8"	1 1/2"	3 1/2"	1	7.80	2.49	Kith	2"	2 3/8"	8"	3 1/2	24.60	3.72	Nerve	3 3/4"	5"	15"	17 1/2	68.50	5.50
Kava	1"	1 1/4"	4"	1 1/2	9.00		Knave	2"	3"	8"	4 1/2	24.60	3.72	Nest	3 3/4"	5 1/2"	15"	18	68.50	5.50
Kayak	1"	1 1/2"	4"	1	9.00	2.62	Knit	2 1/2"	2 3/8"	8 1/2"	4 1/2	26.50	3.72	Newell	3 3/4"	5 1/2"	15 1/2"	20	73.20	5.81
Kefer	1"	1 3/4"	4"	1 1/4	9.00	2.62	Knob	2 1/2"	3 1/4"	8 1/2"	4 1/2	26.50	3.72	Nibble	4"	5"	16"	28	78.70	5.92
Keeper	1"	2"	4"	1 1/2	9.00	2.62	Knoll	2 1/2"	2 3/4"	9"	4 1/2	28.60	3.78	Nibbled	4"	5 1/2"	16"	29 1/2	78.70	5.92
Kersey	1 1/8"	1 3/8"	4 1/2"	1 1/4	10.80	2.75	Koran	2 1/2"	3 1/4"	9"	5	28.60	3.78	Nibbling	4 1/2"	5 1/2"	16 1/2"	31	82.40	6.15
Kerny	1 1/8"	1 3/4"	4 1/2"	1 1/2	10.80	2.75	Kumiss	2 1/2"	3 3/4"	9"	6	28.60	3.78	Nicely	4 1/2"	5 1/2"	17"	29 1/2	92.00	6.80
Kibble	1 1/4"	1 1/2"	5 1/2"	1 1/2	12.40		Nabas	2 3/4"	3 3/4"	9 1/2"	6	30.80	3.81	Niche	4 1/2"	5 3/4"	17 1/2"	33 1/2	101.30	7.12
Kid	1 1/4"	2"	4 1/2"	1 1/4	10.80	2.75	Naked	2 1/2"	3 1/4"	10"	5	31.80	3.87	Nick	4 1/2"	5 3/4"	18"	33 1/2	106.30	7.32
Kidnap	1 1/4"	1 3/4"	5"	1 1/2	12.40	2.81	Nation	2 1/2"	3 3/4"	10"	6	31.80	3.87	Niggard	4 1/2"	5 3/4"	18"	35	106.30	7.32
Kiono	1 1/4"	2"	5"	1 1/2	12.40	2.81	Natism	2 3/4"	3 3/4"	10 1/2"	5 1/2	34.70	4.02	Night	4 1/2"	6 1/4"	18 1/2"	39	115.80	8.00
Kidney	1 1/4"	2 1/4"	5"	2	12.40	2.81	Native	2 3/4"	3 3/4"	11"	5 1/2	38.50	4.27	Nightless	4 1/2"	6 1/4"	19"	43 1/2	124.80	8.40
Kin	1 3/8"	1 7/8"	5 1/2"	2	13.70	2.99	Nature	2 3/4"	3 3/4"	11"	6	38.50	4.27	Nightly	4 1/2"	6 1/4"	19 1/2"	43	132.80	8.70
Kinah	1 3/8"	2"	5 1/2"	2 1/4	13.70	2.99	Naval	2 3/4"	3 3/4"	11 1/2"	6 1/2	39.90	4.35	Night	5"	6 1/2"	20"	45	142.40	9.14
Kincy	1 3/8"	2 1/4"	5 1/2"	2 1/4	13.70	2.99	Navy	3"	3 3/4"	12"	8	42.40	4.40	Noble	5"	6 1/2"	20"	50 1/2	142.40	9.14
Kindle	1 3/8"	2 3/4"	5 1/2"	2 1/2	13.70	2.99	Neck	3"	4"	12"	8 1/2	42.40	4.40	Nobody	5 1/4"	7"	21"	80 1/4	165.80	10.10
Kine	1 3/8"	2"	6"	2	15.80	3.13	Necking	3 1/4"	4 1/4"	12 1/2"	8 1/2	45.60	4.46	Nobur	5 1/4"	7"	21 1/2"	75	169.60	10.20
Kingdom	1 1/2"	2 3/4"	6"	2 1/2	15.80	3.13	Nectar	3 1/4"	4"	13"	9 1/2	49.00	4.63	Nomad	5 1/2"	7"	22"	65	175.40	10.28
Kinky	1 1/2"	2 1/2"	6 1/2"	2 1/4	18.40	3.40	Negative	3 3/4"	4 1/4"	13"	10	49.00	4.63	Nomar	5 3/4"	7"	22 1/2"	70	181.80	10.40
Kinship	1 1/2"	2 3/4"	6 1/2"	3	18.40	3.40	Neglect	3 3/4"	4 1/4"	13 1/2"	10 1/2	52.00	4.82	Nonage	5 3/4"	7"	23"	62 1/2	189.70	10.56
Kip	1 3/4"	2 3/4"	7"	2 3/4	20.80	3.56	Negro	3 3/4"	4 1/4"	14"	10	56.50	4.97	Nook	6"	7 1/2"	24"	70	213.40	10.98
Kite	1 3/4"	2 3/4"	7"	3 1/4	20.80	3.56	Neighbor	3 3/4"	4 1/2"	14"	11 1/2	56.50	4.97							

*To obtain price of bearing lengths other than standard, multiply length in inches by price per lineal inch given in this column.

BRONZE STERN CASTINGS FOR CUTLESS RUBBER BEARINGS



Oval Base Fig. 187



Rectangular Base Fig. 188

Prices and dimensions of larger sizes furnished on request. When ordering, it is only necessary to give pattern number. Holes in flanges drilled unless otherwise specified.

The advantages of this type of bearing are many. The castings are made of high-grade bronze of heavy construction, and will last as long as the boat. They are not to be confused with some the light flimsy constructions often sold at a price.

The flanges correspond in sizes with the usual bronze and babbitted bearings of this type. The B. F. Goodrich Cutless Bearing can be easily removed from the main casting by taking out the set screws.

No vibration. Sand or silt is carried out without injury to shaft or bearing.

No attention or adjustment necessary. These bearings are provided with scoops or water lubrication and no additional scoops or other provisions for water supply are necessary.

TABLE OF DIMENSIONS AND PRICES

Order by Pattern Number		Dimensions of Cutless Bearings		Casting Dimensions			Pat. No. Sq. Base	Drilled for Bolts, No.	Pat. No. Oval Base	Drilled for Bolts, Ins.	With-out Cutless Bearing	Complete with Cutless Bearing
A	B	C	G	L	M							
3/4	1 1/4	3	3 1/2	2 1/4	4 3/4	B-1	3/8	B-3	3/8	\$16.00	\$24.50	
3/8	1 1/2	3 1/2	4	2 3/4	4 1/2	B-2	3/8	B-4	3/8	14.50	24.00	
1	1 3/4	4	4 1/4	2 1/2	5	C-1	1/2	C-9	3/8	13.00	23.75	
1 1/4	1 3/4	4 1/2	5 1/4	2 1/4	5 1/2	C-2	3/8	C-10	3/8	14.50	27.50	
1 1/2	2	5	5 3/4	3	6	C-3	1/2	C-11	1/2	18.25	33.00	
1 3/4	2 1/4	5 1/2	6 1/4	3 1/4	6 1/2	C-4	3/4	C-12	1/2	20.00	36.25	
1 1/2	2 3/4	6	6 3/4	3 1/2	7	C-5	1/2	C-13	3/4	29.50	48.00	
1 3/4	2 3/4	7	7 1/4	4	8	C-6	1/2	C-14	3/4	34.25	60.00	
2	3	8	8 1/4	4 1/4	9 1/4	C-7	5/8	C-15	3/4	49.50	77.60	
2 1/4	3 1/4	9	10	5 1/4	10 1/2	C-8	3/4	C-16	3/4	61.50	95.00	



Exhaust Pipe FLANGES CAST BRONZE



Fig. 214

For Pipe Inches	Inside Diameter Inches	Outside Diameter Inches	Weight Pounds
2	2 1/2	4	1/2
2 1/2	2 3/4	4 1/2	1/2
3	3 1/2	5 1/2	3/4
3 1/2	4 1/2	6	1
For Pipe Inches	Burnished Each	Chromium Plated Each	
2	\$2.85	\$4.00	
2 1/2	3.25	5.00	
3	4.70	6.50	
3 1/2	5.00	7.00	

Standard Package, 6*

Exhaust Tube FLANGES CAST BRONZE

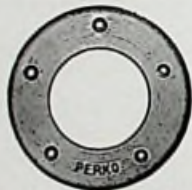


Fig. 738

For Tubing Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Pounds
2	2 1/6	4	1/2
2 1/2	2 3/6	4 1/2	1/2
3	3 1/6	5 1/2	5/8
3 1/2	3 3/6	5 1/2	3/4
4	4 1/6	6	7/8
For Tubing Inches	Burnished Each	Chromium Plated Each	
2	\$1.50	\$2.80	
2 1/2	2.90	4.50	
3	3.50	5.30	
3 1/2	4.70	6.50	
4	5.00	7.00	

Standard Package, 6*

Brass AXE BRACKETS 18 GAUGE—POLISHED



Fig. 325

A set consists of one blade socket and one handle bracket as illustrated.

Complete Sets Per Dozen	Blade Sockets Only Per Dozen	Handle Brackets Only Per Dozen	For Blade Width Inches	Weight Per Set Ounces
\$33.60	\$21.00	\$12.60	6	8

Improved Gasoline STRAINERS CAST BRONZE HOUSING WITH "KWICK KLEAN" FILTER ELEMENTS AND CORPRENE GASKETS

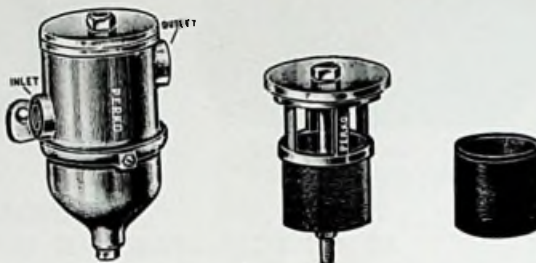


Fig. 299

The filter elements used are equivalent to 300 mesh screen cloth and are guaranteed to strain water from gasoline. They have a high flow rate, long life and are easy to clean. They can also be replaced in a few minutes by the removal of one nut. A soldering iron is not necessary.

Size No.	Complete Each	Spare Elements Each	Length Overall Inches	Diam. Inches	Tapped For Pipe Inches	Weight Pounds
1	\$14.20	\$.80	5 1/2	2 3/8	1/4 or 3/8	3 3/4
1 1/2	18.25	.95	6 1/4	3 1/8	3/8 or 1/2	6
2	25.40	1.25	7 1/4	3 3/8	1/2 or 3/4	8

Standard Package, 6**

Note—When ordering, be sure to specify pipe size, otherwise largest size shown will be supplied.

FLAME ARRESTERS REQUIRED BY LAW ON ALL MARINE CARBURETOR INSTALLATION



Fig. 464

A Flame Arrester attached to the air inlet of the carburetor eliminates the possibility of a fire being caused by backfiring through the carburetor.

Size No.	Style No.	Each	Inside Diam. Inches	Dimensions of Top Inches	Height Overall Inches
3	B-175-19A	\$12.25	1 1/2	3 5/8 x 2 3/8	2 1/8
4	B-175-14	14.20	2 1/8	4 1/8 x 2 1 1/8	2 3/8
5	B-175-12A	16.00	2 3/8	5 1/8 x 2 1 1/8	2 1 1/2
6	B-175-12	16.00	2 3/8	5 1/8 x 2 1 1/8	2 1 1/2
7	B-175-16	16.00	2 3/8	5 1/8 x 2 1 1/8	2 1 1/2
8	B-175-13	18.50	3	5 3/8 x 3 3/8	2 1 1/2



Intake Water STRAINERS

CAST BRONZE
STAINLESS STEEL STRAINER
TRANSPARENT LUCITE CYLINDER



Fig. 493

For installation between hull connection and water pump to the engine.

Lucite cylinders are difficult to break even when struck with hammer. Gaskets are corprene, (neoprene and cork) waterproof and resilient.

No.	Complete Each	Spare Cylinders Each	Spare Gaskets Each	Spare Strainers Each
1	\$22.00	\$ 5.00	\$.35	\$ 2.40
2	35.50	5.00	.45	3.75
3	37.00	5.20	.45	4.20
4	38.50	6.50	.45	4.75
5	48.50	10.50	.65	5.50
6	65.00	15.50	.65	8.00

No.	Pipe Size Inches	Size Cylinder Inches	Height Inches	Width Overall Inches	Weight Pounds
1	1/2	3 1/2 x 4	6	4 1/4	3 1/2
2	3/4	4 1/2 x 5	7 3/4	5 1/2	6 1/2
3	1	4 1/2 x 5 1/2	8 1/4	5 1/2	6 3/4
4	1 1/4	4 1/2 x 6	8 3/4	5 1/2	7
5	1 1/2	6 x 8	11 1/2	7	12
6	2	6 x 12	17 1/4	9	22

Standard Package, 12**

Height does not include top nut or drain plug.



Fig. 326

Zinc Marine OILERS

SPRING BRASS BOTTOM

No.	Complete Per Gross	Extra Spouts Per Gross
3	\$136.00	\$42.00

Capacity Ounces	Diam. Inches	Weight Per Gross Pounds
8	4	40

Supplied with 4 or 6 inch spouts, please specify.

**The Improved "ENGINE SAVER"
Combination Intake Water Strainer
and Rust Preventer**

CAST BRONZE—WITH MOUNTING BRACKET
STAINLESS STEEL STRAINER
TRANSPARENT LUCITE CYLINDER
FILLED WITH ANTI-RUST CRYSTALS



Fig. 494

For installation in the cooling system between the hull connection and pump or between pump and engine.

The cooling water (salt or fresh) passing through the "Engine Saver" slowly dissolves the crystals, creating a chemical solution which forms a very thin film on the inner surfaces of the cooling system (water jackets, manifolds etc.) protecting the metal from rust and assisting in the control of electrolysis.

The rate of crystal consumption is very small, as low as 2 pounds per year in the No. 2 size, depending upon the amount of use and temperature of the water.

The stainless steel perforated strainer in tubular form is permanently attached to the lower end of the brass tube illustrated. This assures maximum solution and filtering as the water must pass into the lower end of the tube to reach the outlet.

Gaskets are of neoprene and cork. Castings are carefully machined against leakage.

No.	Motor H.P.	Complete Each	Spare Cylinders Each	Spare Gaskets Each	Spare Strainers Each
1	up to 60	\$36.00	\$10.00	\$.35	\$4.00
2	60 to 150	55.00	10.85	.45	5.50
3	60 to 150	57.00	12.85	.45	6.00
4	60 to 150	59.00	13.25	.45	8.00
5	150 to 200	82.00	14.50	.65	8.50

Anti-rust crystals, per pound \$1.65, in 1, 5 or 10 pound bags.

No.	Pipe Size Inches	Size Cylinder Inches	Height Inches	Width Overall Inches	Amount Crystals Used Pounds	Weight Complete Pounds
1	1/2	3 1/2 x 8 1/2	10 1/2	4 1/4	2	11
2	3/4	4 1/2 x 11	14	5 1/2	4 1/2	15 1/2
3	1	4 1/2 x 12	15	5 1/2	5	18
4	1 1/4	4 1/2 x 13	16	5 1/2	6 1/2	20
5	1 1/2	6 x 15	18 1/2	7	14 1/4	30

Standard Package, 3**

Height does not include top nut or drain plug.



New Cast Bronze Streamline CLEATS CHROMIUM PLATED



Fig. 850

Length Inches	Chromium Plated Each	Size Base Inches	For Diam. Rope Inches	For Screw No.	Packed Per Box	Weight Ounces
3	\$2.45	2 5/8 x 1 1/8	3/8	8	12	4
4 1/2	\$3.50	4 1/4 x 1 3/4	5/8	10	12	10

Standard Package, 12*

Streamline CLEATS ZAMAK DIE CASTINGS—CHROMIUM PLATED SOLID BASE

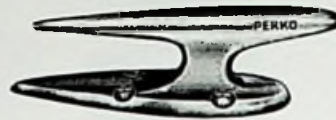


Fig. 566

Length Inches	Chromium Plated Each	Size Base Inches	For Diam. Rope Inches	For Screw No.	Packed Per Box	Weight Ounces
2	\$.60	2 x 1	3/8	7	25	1 1/4
3	.75	2 3/4 x 1 3/8	3/8	8	25	2 1/2
4 1/2	1.40	4 3/8 x 1 3/4	5/8	10	10	6
6	2.10	5 1/2 x 2	3/4	12	5	11 1/2
7 1/2	3.35	4 3/8 x 2 3/4	1	12	5	24

Standard Package, 2" and 3", 50*

Standard Package, 4 1/2", 30*

Standard Package, 6" and 7 1/2", 10*

New Cast Bronze Modern Design CLEATS CHROMIUM PLATED



Fig. 851

Length Inches	Chromium Plated Each	Size Base Inches	For Diam. Rope Inches	For Screw No.	Packed Per Box	Weight Ounces
3	\$2.50	1 3/8 x 1 1/8	3/8	8	12	2 1/2
4 1/2	3.60	1 3/4 x 1 1/2	5/8	8	12	6

Standard Package, 12*

Modern Design CLEATS ZAMAK DIE CASTINGS—CHROMIUM PLATED



Fig. 1250

Length Inches	Chromium Plated Each	Size Base Inches	For Diam. Rope Inches	For Screw No.	Packed Per Box	Weight Ounces
3	\$1.15	1 1/2 x 1 1/4	3/8	8	30	2 1/2
4 1/2	1.55	1 7/8 x 1 1/2	1/2	8	10	8
6	2.25	2 1/4 x 2 1/8	3/4	10	5	13

Standard Package, 3" and 4 1/2", 30*

Standard Package, 6", 10*

Solid Base Boat CLEATS DROP FORGED BRONZE



Fig. 544-A

These have much greater strength than cast bronze cleats. The finish is finer (no sand holes). They polish and plate to smoothness and brilliance not probable with castings.

Length Inches	Polished Bronze Each	Chromium Plated Each	For Screw No.	Packed Per Box	Weight Ounces
3	\$1.35	\$1.85	8	25	2 1/2
4	1.50	2.10	10	25	4
5	2.10	2.70	14	10	5 1/2
6	2.45	3.25	14	10	8

Standard Package, 3" and 4", 25*

Standard Package, 5" and 6", 10*

Open Base Boat CLEATS GALVANIZED IRON OR CAST BRONZE

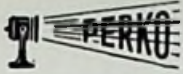


Fig. 544

Length Inches	Cast Iron Each	Mall. Iron Each	Polished Bronze Each	Chromium Plated Each	Galv. Weight Pounds
3 1/2	\$.28	\$.41			3/8
4	.30	.52			1/4
5	.46	.64			3/8
6	.56	.93			1/2
8	1.20	1.70	\$3.90	\$4.90	1 1/4
10	2.10	2.65	6.00	7.85	2 1/4
12	3.15	3.70	8.00	10.00	3 3/4
14	4.50	6.40			6 1/4
18	7.75	11.45			11 1/2

Standard Package. Sizes 3 1/2" to 6" 20*, size 8" and larger 6*.

Galvanized cleats supplied in cast unless otherwise specified.



Sturdy CLEATS
CAST BRONZE—HEAVY DUTY



Fig. 384

Length Inches	Polished Bronze Each	Chromium Plated Each	For Diam. Rope Inches	For Screw No.	Packed Per Box	Weight Pounds
4	\$2.15	\$2.90	1/4	8	5	1/2
5	4.00	4.85	3/8	8	5	3/4

Standard Package, 6*

Ship CLEATS
CAST IRON—HEAVY



Fig. 511

Length Inches	Galv. Each	Size of Base Inches	Holes for Diam. Bolts Inches	Weight Each Pounds
8	\$2.45	4 1/4 x 2 1/2	3/8	3
10	4.40	4 3/4 x 2 1/2	1/2	5 3/4
12	7.25	6 1/8 x 3	3/8	10
15	9.00	7 1/4 x 3 1/2	3/4	14
18	13.60	7 1/2 x 4	3/4	20 1/4
24	30.00	8 1/2 x 4 3/8	3/8	35

Standard Package, 6*

Hollow CLEATS
CAST BRONZE—CLOSED ENDS



Fig. 572

Length Inches	Polished Bronze Each	Chromium Plated Each	For Screw No.	Weight Pounds	Packed Per Box
4 1/2	\$2.80	\$3.80	10	1/2	10
5 1/2	3.10	4.30	10	3/8	10
6 1/2	3.60	5.00	12	3/4	10
8	4.90	6.40	1/4"	1 1/4	
10	9.30	10.90	3/16"	2	
12	13.00	15.35	3/16"	3	

Standard Package, 6*

Double Jam CLEATS
CAST BRONZE—POLISHED



Fig. 1030

No.	Each	Length Overall Inches	Width Inches	For Screw No.	Packed Per Box	Weight Ounces
0	\$1.15	3	3/8	6	12	2
1	1.40	4	1/2	7	12	3 1/2
2	1.95	5	5/8	8	12	5 1/2

Standard Package, 12*

Fender CLEATS
DROP FORGED BRONZE



Fig. 583

Length Inches	Dull Finish Each	Polished Bronze Each	Chromium Plated Each	Size Base Inches	For Screw No.	Weight Ounces
2 1/4	\$.70	\$1.00	\$1.20	1 3/8 x 1	6	1 1/2

Standard Package, 12*

Fender CLEATS
ZAMAK DIE CASTINGS—CHROMIUM PLATED



Fig. 1248

Length Inches	Chromium Plated Each	Size Base Inches	For Screw No.	Packed Per Box	Weight Ounces
2 1/4	\$.75	1 5/8 x 1	7	25	1 1/2

Standard Package, 25

Automatic Jam CLEATS
CAST BRONZE—POLISHED



Fig. 895

No.	Each	For Rope Inches	Size Base Inches	For Screw No.	Weight Ounces
1	\$8.50	1/4 - 3/8	3 1/2 x 1 1/2	8	10
2	8.75	3/8 - 1/2	5 1/8 x 1 3/4	10	18

Standard Package, 6*



New Cast Bronze Modern Design Bow CHOCKS CHROMIUM PLATED

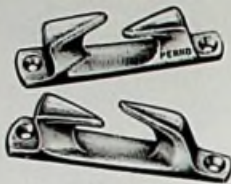


Fig. 852

Per Pair	Length Overall Inches	Width Base Inches	For Diam. Rope Inches	For Screw No.	Packed Pairs Per Box	Weight Per Pair Ounces
\$5.75	4	1 3/8	1/2	8	10	10

Standard Package, 6 Pairs.

Modern Design Bow CHOCKS ZAMACK DIE CASTINGS—CHROMIUM PLATED



Fig. 1251

Per Pair	Length Overall Inches	Width Base Inches	For Diam. Rope Inches	For Screw No.	Weight Per Pair Ounces	Packed Pairs Per Box
\$2.70	3 3/4	3/4	1/2	8	8 1/2	10

Standard Package, 10 Pairs.

Bow CHOCKS GALVANIZED OR BRONZE



Fig. 546

Lgth. Inches	Galv. Iron Per Pair	Polished Bronze Per Pair	Chrom. Plated Per Pair	Width Inches	For Diam. Rope Inches	Bronze For Screw No.	Wt. Per Pair Lbs.
3	\$.55	\$2.50	\$3.45	5/8	1/2	8	1/4
4	.62	3.00	4.10	3/4	3/4	10	1/2
5	1.10	4.25	5.50	7/8	3/4	10	1
6	1.95	8.30	9.70	1	1	14	1 1/2
8	3.00	11.00	14.00	1 1/4	1 1/8	14	3
10	4.90	17.00	23.25	1 3/4	1 1/4	3/8"	5 1/2
12	12.00	25.50	31.50	2	1 1/4	5/16"	11 1/4
15	27.25			3 1/2	1 3/4		40

Standard Package, 6 Pairs*

NOTE—3, 4 and 5 inch sizes are forged bronze.

Straight Stern CHOCKS GALVANIZED OR BRONZE



Fig. 119

Lgth. Inches	Galv. Iron Each	Polished Bronze Each	Chrom. Plated Each	Width Inches	For Diam. Rope Inches	Bronze For Screw No.	Wt. Each Lbs.
4	\$.37	\$1.60	\$2.10	3/8	3/4	8	1/4
5	.58	2.30	3.00	1	3/4	10	1/2
6	.87	3.20	4.65	1 1/8	1	12	3/4
8	1.80	5.80	7.80	1 3/4	1 1/8	14	1 1/2
10	2.80	10.50	12.50	1 3/4	1 1/2	3/8"	2 1/4
12	5.50	14.00	17.00	2 1/4	1 3/4	3/8"	7 1/2
15	10.75			3 1/2	1 3/4		20

Standard Package, 12*

NOTE—4 and 5 inch sizes are forged bronze.

Streamline CHOCKS

FOR BOW OR STERN
ZAMACK DIE CASTINGS—CHROMIUM PLATED



Fig. 1240

The bow line can pass through these chocks at the usual angle without wear as the vertical part of each jaw is rounded for that purpose.

Per Pair	Length Inches	Extreme Width Inches	For Diameter Rope Inches	For Screw No.	Weight Ounces	Packed Pairs Per Box
\$2.50	4	1	1/2	10	3 1/2	10

Standard Package, 10 Pairs.

Bulwark Stern CHOCKS CAST BRONZE



Fig. 769

Polished Bronze Each	Chromium Plated Each	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
11.50	14.00	11 1/2	1 3/4	3	1 1/4

Standard Package, 6*



Skene Bow CHOCKS CAST BRONZE



Fig. 160

Size No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Inches	Opening Inches	Weight Per Pair Pounds
1	\$ 5.20	\$ 7.00	4½	¾	¾	¾
2	7.80	10.30	5½	1¼	¾	1½
3	15.00	17.50	7¼	1¾	1	4

Standard Package, 6 Pairs*

BOAT COVER SOCKETS ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 578

An excellent item for preventing or eliminating sag in boat cover.

Sockets will accommodate a piece of wood lattice ¾ inches thick and up to 1¼ inches wide. Cut the lattice a few inches longer than the boat's width to obtain a low arch under the cover.

Per Pair	Length Overall Inches	Size Opening Inches	Width Overall Inches	For Screw No.	Weight Per Pair Ounces
\$.90	3¼	1 7/8 x ¾	5/8	8	2

Standard Package, 12 Pairs.

Skene Stern CHOCKS CAST BRONZE



Fig. 161

Size No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches	Opening Inches	Weight Each Pounds
11	\$ 2.60	\$ 3.50	4	¾	¾	½
12	3.90	5.15	5¼	1¼	1	1
13	6.60	8.50	7	1¾	1¾	2
14	10.00	12.00	9	2¼	1¾	4

Standard Package, 12*

FITTINGS for Convertible Boat Tops CAST BRONZE



Hinge No. 1



Hinge No. 2



Socket Nos. 3 and 4

Skene Bulwark CHOCKS CAST BRONZE



Fig. 752

Length Inches	Polished Bronze Each	Chromium Plated Each	For Diam. Rope Up to Inches	Thick-ness of Rail Inches	Height Inches	Weight Each Pounds
6	\$7.50	\$10.20	1¼	1½	2¾	2

Standard Package, 6*



Slide Nos. 5, 6 and 7



Eye End No. 8

Fig. 395

LASHING HOOK FOR BOAT COVERS ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1249

Chromium Plated Each	Length Overall Inches	Width Overall Inches	Inside Hook Inches	For Screw No.	Packed Per Box	Weight Ounces
\$.20	1¾	½	¼	6	50	½

Standard Package, 50

No.	Burnished Each	Chromium Plated Each	Item
1	\$1.00	\$1.90	Deck hinge or bracket
2	.90	1.80	Side hinge or bracket
3	1.00	2.00	Socket, tapped for ¾ inch pipe
4	1.20	2.50	Socket, drilled for ¾ inch O.D. tubing
5	1.75	2.80	Slide, drilled for O.D. of ¾ inch pipe
6	1.75	2.80	Slide, drilled for ¾ inch O.D. tubing
7	1.10	2.00	Slide, drilled for ¾ inch O.D. plastic covered tubing
8	.90	1.75	Eye end, for ¾ inch I.D. x ¾ inch O.D. plastic covered tubing

Standard Package, 6*

Large Package, Chromium Plated Finish Only, 36*
Weight of above fittings average 2¼ ounces each.



New Rope and Chain DECK PIPE FOR DANFORTH ANCHOR LINES CAST BRONZE—CHROMIUM PLATED



Fig. 750

When lightweight anchors are used a short length of chain is generally shackled to the rope line.

This new deck pipe will accommodate 3/4 inch line on a thimble, the shackle and 1/4 inch chain. It has a hook for hanging the chain, the weight of which holds the cover down.

Each	Dimensions of Flange Inches	Dimensions Inside Inches	Height Inches	Weight Pounds
\$11.75	5 1/4 x 4	3 3/4 x 2 1/2	1 3/8	2

Standard Package, 6.

Rope DECK PIPES GALVANIZED CAST IRON OR CAST BRONZE



Fig. 741

No.	For Diam. Rope Inches	Inside Diam. Inches	Diam. Flange Inches	Height Above Deck Inches	Weight Pounds
0	5/8	1 1/4	3	1 1/8	3/4
1	3/4 & 1	1 3/4	4 1/4	1 3/4	1 1/8
2	1 1/4	2 1/8	4 5/8	1 3/4	1 1/8

No.	Galvanized Each	Burnished Each	Chromium Plated Each
0	.....	\$4.65	\$ 6.25
1	\$2.90	7.50	13.30
2	4.00		15.00

Standard Package, 6*

All sizes Drilled for No. 8 F.H. screw.

Riding BITTS GALVANIZED CAST IRON



Fig. 926

No.	Each	Height Inches	Size Base Inches	Weight Pounds
01	\$6.00	5 3/4	3 1/2 x 3 1/2	4
1	7.80	6 3/4	5 x 5	6
1 1/2	11.75	8 1/4	5 1/2 x 5 1/2	9
2	22.00	10	5 1/2 x 7 1/2	18

Standard Package, 6**

Mooring BITTS

CAST BRONZE
ROUND POST—ROUND BASE
POST TAPERED TO HOLD LINE AT BOTTOM
ROUND TO PREVENT WEAR ON LINE

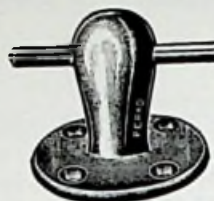


Fig. 597

No.	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Inches	For Screw No.	Weight Pounds
1	\$5.75	\$7.50	2 3/4	2 3/8	10	3/4

Standard Package, 6*

Mooring BITTS CAST BRONZE

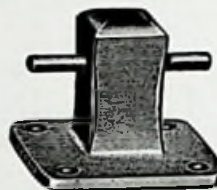


Fig. 608

No.	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Height Inches	For Screw No.	Weight Pounds
1	\$6.35	\$8.75	3 x 3	2 1/2	10	7/8
2	10.00	13.10	4 1/4 x 4 1/4	3 1/2	14	1 1/4
3	19.25	22.75	6 x 6	5	3/8"	4 1/2
4	31.00	35.75	7 x 7	6 1/2	1/2"	12

Standard Package, 6**

Comb. BITT and Rope DECK PIPES CAST BRONZE

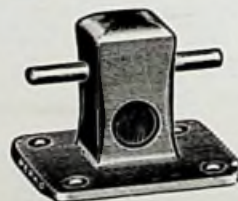


Fig. 431

A hollow one piece casting of minimum weight but maximum strength. An opening in one side of bitt to allow rope to be stored below deck but always ready for use.

No.	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Height Inches	For Diam. Rope Inches	Weight Pounds
2	\$11.00	\$14.10	4 1/4 x 4 1/4	3 1/2	3/4	1 1/4
3	20.25	23.75	6 x 6	5	1	4

Standard Package, 6**

No. 2 Drilled for 1/4 inch bolt.

No. 3 Drilled for 3/8 inch bolt.



Improved BOW EYES
HIGH TENSILE MANGANESE BRONZE
EXTRA STRONG SHANK



Fig. 238

Extremely strong, tested to 7940 pounds

No.	Dull Bronze Each	Chromium Plated Each	I.D. Eye Inches	Lgth. Shank Inches	Diam. Shank Inches	Weight Ounces
1	\$1.40	\$1.95	1	3 1/8	3/8	5 1/2
2	2.00	2.50	1	6	3/8	7

Standard Package, 50**

New BOW EYE ADAPTER
ZAMAK DIE CASTING—CHROMIUM PLATED

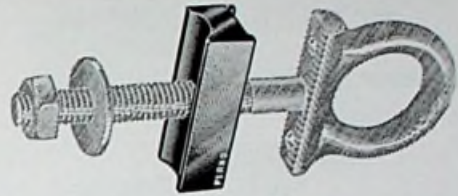


Fig. 397

For use with our Fig. 238 Bow Eye. The curved base fits snugly around the stem. Excellent for fibre glass or metal boats. Stock radius 3/8 inches.

Each	Length Inches	Width Inches	Thickness Inches	Weight Ounces
\$0.55	1 1/4	3/8	1/2	1

With special radius to order, in quantity, details on application.

Standard Package, 12

Heavy Duty BOW EYES
CAST MANGANESE BRONZE



Fig. 238-A

Extra large and strong for small inboard and outboard cruisers.

No.	Burn. Bronze Each	Chromium Plated Each	I.D. Eye Inches	Length Shank Inches	Diam. Shank Inches	Weight Ounces
3	\$3.65	\$4.90	1 1/4	6	1/2	15

Standard Package, 12**

RING ON PLATE
CAST BRONZE—STREAMLINE PATTERN



Fig. 182

No.	Chromium Plated Each	Length Base Inches	Width Base Inches	Size of Ring Inches	Weight Ounces
1	\$3.00	2 3/4	1 1/2	3/8 x 1 1/4	2 3/4
2	3.40	3 1/4	1 7/8	3/32 x 1 1/2	3 1/2

Standard Package, 12*

Drilled for No. 8 Screw.

New BOW EYE
ZAMAK DIE CAST EYE—CHROMIUM PLATED
BRONZE SHANK, NUT AND WASHER



Fig. 1292

Each	I.D. Eye Inches	Length Shank Inches	Diam. Shank Inches	Weight Ounces
\$1.75	1	3	3/8	5

Standard Package, 36

RING ON PLATE
GALVANIZED DROP FORGED STEEL



Fig. 607

No.	Galvanized Each	Size Ring Inches	Size Plate Inches	For Screw No.	Weight Per 100 Pounds
1	\$1.25	3/8 x 1 1/2	2 1/8 x 2 1/8 x 1/4	12	33
2	1.55	3/8 x 2	2 1/8 x 2 1/8 x 1/4	12	50

Standard Package, 12*

BOW EYES
CAST BRONZE



Fig. 303

Metal In Eye Inches	Length of Straps Inches	Extreme Length Inches	I.D. Eye Inches	For Screw No.
3/8	1 3/4	3	3/4	8

Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Ounces	Packed Per Box
\$1.00	\$1.75	\$2.25	3 1/2	5

Standard Package, 10*

RINGS WITH STRAPS
GALVANIZED MALLEABLE IRON OR CAST BRONZE



Fig. 1020

No.	Galvanized Each	Burnished Bronze Each	Chromium Plated Each	Size Strap Inches	For Screw No.	Weight Ounces
1	\$.95	\$1.35	\$2.35	4 1/8 x 3/4	8	4 1/2
2	1.10			4 1/8 x 3/4	8	4 3/4

Standard Package, 12*

**MODERN DESIGN
MATCHED HARDWARE**

CAST BRONZE—CHROMIUM PLATED



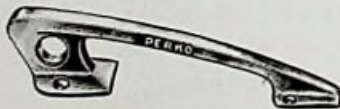
CLEAT
Fig. 851



BOW CHOCKS
Fig. 852



TRANSOM HANDLE
Fig. 854



BOW HANDLE WITH EYE
Fig. 853

CLEATS AND CHOCKS

Fig.	Each	Per Pair	Length Inches
851	\$2.50		3
851	3.60		4 1/2
852		\$5.75	4

NOTE—For other details

Fig. 851 see page 118

Fig. 852 see page 120

HANDLES

Fig.	Each	Length Base Inches	Height Above Deck Inches	For Screw No.	Packed Per Box	Weight Ounces
853	\$6.75	7 1/2	1 3/4	8	6	15
854	3.40	5 3/4	1 5/8	8	6	8

Standard Package, Handles 12*

**MODERN DESIGN
MATCHED HARDWARE**

ZAMAK DIE CASTINGS—CHROMIUM PLATED



CLEAT
Fig. 1250



BOW CHOCKS
Fig. 1251



TRANSOM HANDLE
Fig. 1254



BOW HANDLE WITH EYE
Fig. 1269

CLEATS and CHOCKS

Figs.	Each	Per Pair	Length Inches
1250	\$1.15		3
1250	1.55		4 1/2
1250	2.25		6
1251		\$2.70	3 3/4

NOTE—For other details

Fig. 1250 See Page 118

Fig. 1251 See Page 120

HANDLES

Figs.	Each	Length Base Inches	Height Above Deck Inches	For Screw No.	Packed Per Box	Wt. Oz.
1254	\$1.65	5 7/8	1 5/8	8	12	7
1269	3.60	11 3/8	2	10	6	18

Standard Package, Handles 12*



Round Grip TRANSOM HANDLE

ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1231

Extra strong for heavy boats. The round grip has no sharp edges and is ample to accommodate a man size hand.

Each	Length Overall Inches	Length Inside Inches	Height Inside Inches	For Screw No.	Weight Ounces	Packed Per Box
\$1.25	6	3½	1¾	10	7¼	10

TRANSOM HANDLES CAST BRONZE OR ZAMAK DIE CASTING



Bronze Fig. 775
Zamak Fig. 1222

Fig. 775

No.	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Length Inside Inches	For Screw No.	Weight Ounces
1	\$1.10	\$1.35	4¼	2⅝	6	2
2	1.60	1.80	5¾	3¾	8	4

Fig. 1222

\$.95	5¾	3¾	8	3½
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TRANSOM HANDLE ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1229

Chromium Plated Each	Length Overall Inches	Length Inside Inches	For Screw No.	Weight Ounces	Packed Per Box
\$.85	5¼	3½	6	2½	10

TRANSOM HANDLE GALV. MALLEABLE IRON



Fig. 361

Each	Length Overall Inches	Weight Ounces
\$.80	6½	8
Size Opening Inches		
3¼x1¼		

New BOW HANDLE ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1217

This shorter handle allows the installation of Bow Light closer to stem of the boat as now required by new standard regulations.

Chromium Plated Each	Length Base Inches	Height Above Deck Inches	For Screw No.	Wt. Ozs.	Packed Per Box
\$2.45	7⅝	1¾	8	11	10

Streamline BOW HANDLE ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1238

An extremely good looking bow handle for small boats. A practical grab handle for cabin boats.

Chromium Plated Each	Length Overall Inches	Height Above Deck Inches	For Screw No.	Weight Ounces	Packed Per Box
\$3.25	13¾	1¾	8	14	5

Streamline BOW HANDLE ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1244

Combining good looks and practicability, a fine bow handle for small boats or grab handle for cruisers.

Chromium Plated Each	Length Base Inches	Height Above Deck Inches	For Screw No.	Weight Ounces	Packed Per Box
\$2.50	12	1¾	8	13	5

BOW HANDLE ZAMAK DIE CASTINGS—CHROMIUM PLATED

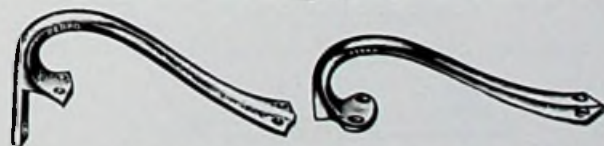
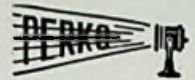


Fig. 1221

Fig. 1234

Chromium Plated Each	Length Overall Inches	Height Above Deck Inches	For Screw No.	Weight Ounces	Packed Per Box
\$1.60	6½	2	8	5½	10



STEP PLATES

ZAMAK DIE CASTING—CHROMIUM PLATED
WITH BLACK OR WHITE MOULDED
RUBBER STEP PADS



Fig. 1225

No.	Black Complete Each	White Complete Each	Frame Only Each	Overall Dimensions Inches	For Screw No.	Weight Ounces
0	\$1.35	\$1.45	\$1.00	8 x 2 1/4	4	6
1	1.80	1.90	1.35	8 3/4 x 3 1/4	6	8
2	2.75	2.95	2.10	11 1/2 x 5 3/4	8	12

Standard Package, 10 †
Black supplied unless otherwise specified.
Packed per box—Nos. 0 and 1, 10 pieces. No. 2, 5 pieces.

STEP PLATES

CAST BRONZE FRAME—CHROMIUM PLATED
WITH BLACK OR WHITE MOULDED
RUBBER STEP PADS



Fig. 1043

No.	Black Complete Each	White Complete Each	Frames Only Each	Overall Dimensions Inches	For Screw No.	Weight Pounds
0	\$2.70	\$2.80	\$2.35	8 x 2 1/4	4	1/2
1	4.75	4.85	4.40	8 3/4 x 3 1/4	6	3/4
2	6.50	6.70	5.85	11 1/2 x 5 3/4	8	1 3/4

Standard Package, 10 †
Black supplied unless otherwise specified.
Packed per box—No. 1, 10 pieces. No. 2, 5 pieces.

Rubber PADS Only

BLACK OR WHITE



Fig. 1050

No.	Black Each	White Each	Length Inches	Width Inches	Thickness Inches	Weight Ounces
0	\$.40	\$.50	7 1/4	1 3/8	1/4	2
1	.50	.60	8	2 1/2	3/8	3 1/4
2	.65	.85	11	5	3/8	8 1/4

Standard Package, 10 †
Black supplied unless otherwise specified.
Packed 10 pieces per box.

Utility Rubber STEP PLATES

HEAVY CORRUGATED
BLACK OR WHITE RUBBER WITH
BRASS, CHROMIUM PLATED FRAME



Fig. 1044

No.	Black Each	White Each	Overall Dimensions Inches	Weight Pounds
3	\$4.65		8 1/2 x 3 1/2	1/2
4	5.50	6.20	10 x 4	3/4
5	6.70	7.40	13 x 5	1
6	7.20	8.75	17 x 6	1 1/2
7	7.75	10.00	18 x 7	2
9	6.70	8.25	12 x 8	1 1/2
10	8.25	10.50	15 x 10	2 1/4

Standard Package, 6 †
Black supplied unless otherwise specified.
NOTE—Fig. 1044 with stainless steel frame is available to order, price on application.

NEW STEP PLATES

ZAMAK DIE CASTINGS—CHROMIUM PLATED
BLACK OR WHITE RUBBER PADS



Fig. 1273

Supplied in pairs, one plate for each side of boat.

No.	Black Complete Per Pair	White Complete Per Pair	Overall Dimensions Inches	For Screw No.	Weight Per Pair Ounces
1	\$3.50	\$3.70	8 1/2 x 3 1/4	6	18

Standard Package, 5 pair †

New Modern Design

STEP PLATES

ZAMAK DIE CASTINGS—CHROMIUM PLATED
BLACK OR WHITE RUBBER PADS



Fig. 1284

Certainly the most attractive step plate made for out-board and inboard boats.

No.	Black Complete Each	White Complete Each	Black Pads Each	White Pads Each	Overall Dimensions Inches	Weight Complete Ounces
1	\$1.90	\$2.00	\$.40	\$.50	8 x 2 1/4	5

Standard Package, 10 †



TRANSOM PLATES FOR OUTBOARD MOTORS ZAMAK DIE CASTING—CHROMIUM PLATED WITH LEATHER PADS



Fig. 1224

Per Pair	Length Overall Inches	Inside Diameter Inches	For Screw No.	Weight Per Pair Ounces	Packed Pairs Per Box
\$1.10	3 $\frac{3}{8}$	1 $\frac{7}{8}$	7	2 $\frac{3}{4}$	25

Standard Package, 12 Pairs

TRANSOM PLATES FOR OUTBOARD MOTORS FORGED BRONZE—WITH LEATHER PADS



Fig. 814

Dull Finish Per Pair	Chromium Plated Per Pair	Outside Diameter Inches	Inside Diameter Inches	For Screw No.	Weight Per Pair Ounces
\$1.20	\$1.50	3	1 $\frac{3}{4}$	6	7

Standard Package, 12 Pairs +

Rubber TRANSOM PAD FOR OUTBOARD MOTORS NEOPRENE—WITH FORMICA INSERT



Fig. 199

Reduces noise and vibration.
Protects both sides of transom.
Fits all sizes and models of O.B. motors.

No.	Black Each	White Each	Extreme Width Inches	Weight Pounds
1	\$3.95	\$4.95	10 $\frac{1}{2}$	1 $\frac{1}{2}$
2	5.00		12 $\frac{3}{4}$	2
Giant	5.50		12 $\frac{3}{4}$	3

Note—Size No. 2 for 35 H.P. motors.
Giant size for 50 H.P. and up.

Standard Package, 36*

Rubber TRANSOM PAD FOR OUTBOARD MOTORS NEOPRENE—IN VARIOUS COLORS



Fig. 172

Reduces noise and vibration.
Protects both sides of transom.
Fits all sizes and models of O.B. motors.
Colors are black, red, white, blue or green.

No.	Black Each	Other Colors Each	Extreme Width Inches	For Screw No.	Weight Pounds
1	\$3.00	\$3.30	10 $\frac{3}{4}$	8	1 $\frac{1}{2}$
2	4.35		11 $\frac{1}{4}$	8	2

Standard Package, 12*

Note—Size No. 2 Black Only, for all large motors.

Outside TRANSOM PLATES FOR OUTBOARD MOTORS WROUGHT ALUMINUM



Fig. 185

Protects outside of transom. Fits all motors.

Each	Height Inches	Width Top Inches	Width Bottom Inches	For Screw No.	Weight Ounces
\$1.75	9	10 $\frac{3}{4}$	8	8	5 $\frac{1}{2}$

Standard Package, 12

Outboard FLUSHING NOZZLES ALUMINUM AND BRASS FOR INTERNAL FLUSHING OF LOWER UNIT IN OUTBOARD MOTOR

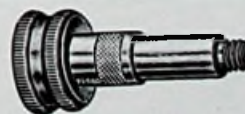


Fig. 179

The male threaded end is for attachment to all motors having flush plugs.
The female threaded end is for regular garden hose.

No.	Each	Size Thread	Length Overall Inches	Weight Ounces
1	\$1.00	$\frac{3}{8}$ "x16	2 $\frac{1}{2}$	1 $\frac{1}{2}$
2	1.00	$\frac{3}{8}$ "x16	2 $\frac{3}{4}$	2
3	1.00	$\frac{1}{8}$ " Pipe	2	1 $\frac{1}{2}$
4	1.00	$\frac{1}{8}$ "x20	2 $\frac{1}{2}$	2

Standard Package, 12*

No. 1 for Johnson 25 H.P., Evinrude 14 and 25 H.P.
No. 2 for Evinrude 15 H.P., Johnson 10 H.P.
No. 3 for Evinrude 7 $\frac{1}{2}$ H.P. and others.
No. 4 for Evinrude and Johnson 3 H.P. and others.



"Neptune" BATTERY BOX

MOLDED FIBRE GLASS
For 6 or 12 Volt Storage Battery



Fig. 703

An attractive and practical battery box or carrying case.

Acid resistant, protects battery from dirt, oil or water. Has high impact strength.

Designed primarily to fit Model 2 SM 12 volt storage batteries but will fit many other sizes.

Color is white with aqua-marine cover but color can be changed to suit by application of outboard motor spray paint.

Supplied complete with web strap and hold-down eyes.

Complete Each	Strap Only Each	Eyes Only Each	Height With Cover Inches	Length Inside Inches	Width Inside Inches	Weight Pounds
\$11.25	\$1.75	\$.24	10 ³ / ₈	10 ⁷ / ₈	7 ¹ / ₈	3 ¹ / ₂

Packed 6 per carton

Standard Package, 2 cartons

BATTERY CONTAINER

FOR 6 VOLT "HOT SHOT" BATTERY
GALVANIZED SHEET STEEL WITH
HEAVY GAUGE WROUGHT STEEL BRACKETS



Fig. 713

This container is designed for fastening to the under side of a seat, out of the way. It fits the 6 volt battery perfectly and has a rubber grommetted exit for the wires.

Supplied complete with two bronze 1/4" x 1 1/2" carriage bolts with wing nuts.

Each	Length Box Inches	Width Box Inches	Depth Box Inches	Weight Pounds
\$5.50	10 ¹ / ₂	7 ³ / ₈	2 ³ / ₈	2 ¹ / ₂

Standard Package, 6

BATTERY BOX GALVANIZED SHEET STEEL WITH GALVANIZED WROUGHT STEEL HOLDING BRACKETS FOR 6 VOLT STORAGE BATTERY



Fig. 712

To accommodate the wet storage battery necessary for outboard motors with electric self starters.

Has friction tight cover and opening for battery cable.

Each	Length Inside Inches	Width Inside Inches	Depth Inside Inches	Weight Pounds
\$7.00	9 ¹ / ₂	7 ¹ / ₂	10 ¹ / ₂	4 ¹ / ₄

Standard Package, 6

FENDER HOOKS

GALV. MALLEABLE IRON OR FORGED BRONZE



Fig. 547

No.	Galv. Each	Dull Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Plate Inches	Weight Ounces
1	\$.35	\$.65	\$1.30	3/8	1 3/4 x 1 1/4	1 1/4
2	.75	.80	1.60	1/2	2 1/4 x 1 3/4	2 3/4

No. 1 for No. 6 screw, packed 25 per box.

No. 2 for No. 8 screw, packed 10 per box.

Standard Package, 1 box*

FENDER HOOKS

ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1246

Chromium Plated Each	For Rope Diameter Inches	Size Plate Inches	For Screw No.	Packed Per Box	Weight Ounces
\$.65	3/8	1 3/4 x 1 1/4	6	25	1 1/4

Standard Package, 25



Water Ski TOWING HOOKS

ALL STAINLESS STEEL HOOK
FOR MOUNTING THROUGH TRANSOM

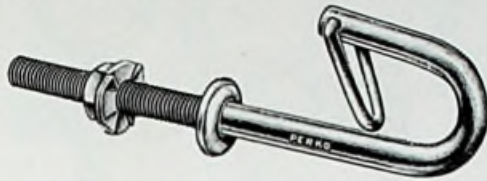


Fig. 862

For fast and full power get-away it is best to have towing line attached as low as possible to transom of boat, this hook answers that problem.

The vertical link prevents escape of line when skier is alongside.

The special washer prevents turning of hook in transom.

Each	Length Overall Inches	Length Thread Inches	Diameter Metal Inches	Packed Per Box	Weight Ounces
\$3.30	7	3 1/4	3/4	5	7

Standard Package, 12

Water Ski TOWING HOOKS

CAST BRONZE

These strong hooks securely attached to the port and starboard knees are just the thing for towing skiers, aquaplanes or boats.



Fig. 817
Without Link



Fig. 861
With Link

Link prevents tow line from jumping out. This unit also serves as a chock or hook for dock line.

Fig.	Burnished Each	Chromium Plated Each	Length Overall Inches	Width Inches	For Screw No.	Weight Pounds
817	\$2.00	\$3.50	3	1 3/4	12	1/2
861	1.95	3.80	3 1/4	1 3/4	12	1/2

Standard Package, 12*

New REAR VIEW MIRROR

CURVED WIDE VISION—NON GLARE GLASS

FOR MOUNTING ON TOP OF WINDSHIELD. ADJUSTABLE

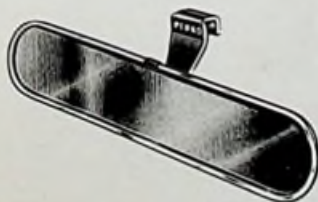


Fig. 400

Each \$6.25

Height Mirror Inches 2 1/2

Width Mirror Inches 1 1 3/8

Weight Pounds 1/2

Standard Package, 6

Water Ski TOWING LINES

MANILA OR POLYETHYLENE ROPE
HARDWOOD HANDLE—PAINTED YELLOW
YELLOW FLOAT ON MANILA LINE

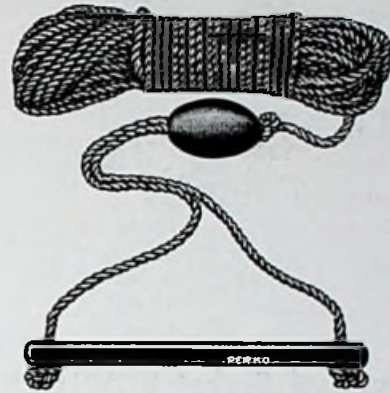


Fig. 755

MANILA LINE

Made of 1/2 inch diameter first grade with blue marker throughout, all spliced and complete with yellow float. 75 foot with single handle each \$4.25

POLYETHYLENE LINE

Made of 1/4 inch diameter high tenacity with one blue and two yellow strands, 900 pounds breaking strength. All spliced. No float necessary as the line floats and is very visible.

75 foot with single handle each \$7.20

All towing lines packed in individual polyethylene bags.

Standard Package, 12**

New REAR VIEW MIRROR

CURVED WIDE VISION—NON-GLARE
LEAD BACKED GLASS—SALT SPRAY TESTED
ZAMAK DIE CAST BASE—CHROMIUM PLATED



Fig. 406

Each	Width Mirror Inches	Height Mirror Inches	Height Overall Inches	Size Base Inches	Weight Pounds
\$8.50	12	2 3/4	4 1/2	3 3/4 x 3/4	3/4

Standard Package, 6



Ribbed Socket ROWLOCKS
GALVANIZED—CAST IRON



Fig. 638

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$1.15	\$.65	\$.50	1 3/4	1 1/8
1	1.25	.75	.50	2	1 1/4

Standard Socket ROWLOCKS
GALVANIZED MALLEABLE IRON



Fig. 639

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$1.75	\$1.25	\$.50	1 3/4	1 1/8
1	1.95	1.45	.50	2	1 1/4
2	2.85	1.85	1.00	2 1/4	1 3/4
3	4.00	2.90	1.10	2 1/2	2 5/8

North River ROWLOCKS
WITH STANDARD SOCKET
ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1227

No.	Chromium Plated Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Ounces
0	\$3.20	\$1.80	\$1.40	1 3/4	15

North River ROWLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 643



Fig. 644

Fig.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
643 Galv.	\$2.20	\$1.70	\$.50	2 1/8	1 1/2
644 Galv.	2.90	1.70	1.20	2 1/8	1 1/2
643 Pl. Bronze	3.55	2.50	1.05	2 1/8	1 1/2
644 Pl. Bronze	4.25	2.50	1.75	2 1/8	1 1/2
643 Pol. Bronze	6.05	4.25	2.00	1 1/8	1 1/2
644 Pol. Bronze	7.45	4.25	3.20	2 1/8	1 1/2
643 Chrom. Pltd.	8.25	5.55	2.70	2 1/8	1 1/2
644 Chrom. Pltd.	9.65	5.55	4.10	2 1/8	1 1/2

Hole in horn shank for chain not included.

North River ROWLOCKS
WITH FANCY SIDE PLATE
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 652

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
1 Galv.	\$3.25	\$1.70	\$1.55	2 1/8	1 1/2
1 Pl. Bronze	4.60	2.50	2.10	2 1/8	1 1/2
1 Pol. Bronze	8.80	4.50	4.30	2 1/8	1 1/2
1 Chrome Pltd.	10.55	5.55	5.00	2 1/8	1 1/2

North River ROWLOCKS
WITH SIDE PLATE SOCKET
ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1228

No.	Chromium Plated Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Ounces
0	\$3.95	\$1.80	\$2.15	1 3/4	18

BRASS SAFETY CHAIN FOR ROWLOCKS, \$.50 PER PAIR
NOTE—ALL ABOVE HORNS AND SOCKETS ARE INTERCHANGEABLE.
Standard Package, Entire Page, Galv., 25 Pr.*, Bronze and Zamak, 10 Pr.*
Bulk Package, Entire Page, Galv. only, 100 Pr.*



Boston Side Plate ROWLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 646

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0 Galv.	\$2.65	\$1.20	\$1.45	1 3/4	1 1/4
1 Galv.	2.90	1.35	1.55	2	1 1/2
0 Pl. Bronze	4.35	2.25	2.10	1 3/4	1 1/4
1 Pl. Bronze	4.45	2.35	2.10	2	1 1/2
0 Pol. Bronze	8.25	3.95	4.30	1 3/4	1 1/4
1 Pol. Bronze	8.75	5.50	4.30	2	1 1/2
0 Chrome Pltd.	10.75	5.75	5.00	1 3/4	1 1/4
1 Chrome Pltd.	11.25	7.00	5.00	2	1 1/2

Side Plate ROWLOCKS
CAST BRONZE



Fig. 645

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
1 Pl. Bronze	\$5.15	\$3.30	\$1.85	2	1 3/4
1 Pol. Bronze	8.00	4.75	3.25	2	1 3/4
1 Chrome Pltd.	10.65	6.55	4.10	2	1 3/4

Davis Pattern ROWLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 641

Size No.	Galv. Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$3.25				1 3/4	2
1	3.60	\$5.55	\$9.10	\$11.50	2	2
2	4.50				2 1/4	2 3/4

Boston Socket ROWLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 645

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0 Galv.	\$1.70	\$1.20	\$.50	1 3/4	7/8
1 Galv.	1.85	1.35	.50	2	1
0 Pl. Bronze	3.30	2.25	1.05	1 3/4	7/8
1 Pl. Bronze	3.45	2.35	1.05	2	1
0 Pol. Bronze	5.80	3.95	1.80	1 3/4	7/8
1 Pol. Bronze	6.25	5.50	2.00	2	1
0 Chrome Pltd.	8.40	5.75	2.65	1 3/4	7/8
1 Chrome Pltd.	8.90	7.00	2.70	2	1

Round Socket ROWLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 642

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Inside Diam. Inches	Weight Per Pair Pounds
0 Galv.	\$1.85	\$1.35	\$.50	2	1 1/8
1 Galv.	2.15	1.65	.50	2 1/4	1 1/4
2 Galv.	2.75	1.80	1.00	2 1/2	1 1/2
1 Pl. Bronze	4.00	2.95	1.05	2 1/4	1 1/4
1 Pol. Bronze	7.00	5.20	2.00	2 1/4	1 1/4
1 Chrome Pltd.	9.65	7.00	2.85	2 1/4	1 1/4

Copper OAR and PADDLE TIPS



Fig. 794



Fig. 788

Fig. 794 Oar Tips—Per Pair	\$.50
Fig. 788 Paddle Tips—Each	.30
Standard Package, 12*	

NOTE—ALL ABOVE HORNS AND SOCKETS EXCEPT FIG. 641 ARE INTERCHANGEABLE
Standard Package, All Rowlocks, Galv. 25 Pr.* Bronze and Zamak, 10 Pr.*
Bulk Package, All Rowlocks, Galv. only, 100 Pr.*



Streamline Base FLAG POLE SOCKETS ZAMAK DIE CASTINGS—CHROMIUM PLATED

FLUSH TYPE



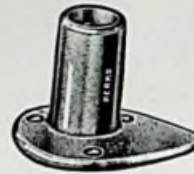
Bow
Fig. 1258



Stern
Fig. 1259

Fig.	Each	Inside Diam. Inches	Size Base Inches	Depth Socket Inches	Weight Ounces
1258	\$1.25	3/4	3x2 1/2	2	4 1/2
1259	1.25	3/4	3x2 1/2	2 1/2	4 1/2

UPRIGHT TYPE



Bow
Fig. 342



Stern
Fig. 343

Fig.	Each	Inside Diam. Inches	Size Base Inches	Height Overall Inches	Weight Ounces
342	\$1.25	3/4	3x2 1/2	2	4 1/2
343	1.25	3/4	3x2 1/2	2	4 1/2

Drilled for screw No. 6
Packed 12 pieces per box.
Standard Package, 12*

Round Base FLAG POLE SOCKETS GALVANIZED CAST IRON OR CAST BRONZE

FLUSH TYPE



Bow
Fig. 218



Stern
Fig. 219

Inside Diam. Inches	Galv. Each	Polished Bronze Each	Chromium Plated Each	Diam. Flange Inches	Depth Socket Inches	Weight Ounces
3/4	\$.50	\$1.85	\$2.20	2	1 1/2	4 1/2
1	.60	2.00	2.40	2 3/8	1 3/4	6
1 1/4	.70	2.40	2.90	2 5/8	2	10
1 1/2	1.00	2.75	3.25	3 1/8	2 3/8	16

UPRIGHT TYPE



Bow
Fig. 220



Stern
Fig. 221

Inside Diam. Inches	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Inches	Weight Ounces
3/4	\$2.75	\$3.40	2 1/8	1 3/4	7
1	3.60	4.35	2 1/2	2	8 1/2
1 1/4	4.30	5.25	2 3/4	2 1/8	11
1 1/2	4.30	5.25	3	3	16

Drilled for screw No. 8.
Packed 6 pieces per box.
Standard Package, 6*

LIFTING RINGS and KEEL PLATE MANGANESE BRONZE—FOR 5/8 INCH ROD



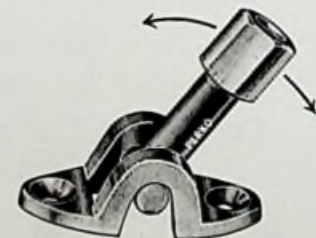
LOOSE DECK FLANGE
Fig. 412



INTEGRAL DECK FLANGE
Fig. 415



KEEL PLATE
Fig. 446



KEEL PLATE
Fig. 447

Fig.	Burnished Bronze Each	Chromium Plated Each	I.D. Eye Inches	Stock in Eye Inches	Length Inches	Diam. Flange Inches	Size Flange Inches	Size Base Inches	For Screw No.	For Bolt Size	Weight Ounces
412		\$6.75	1 3/8	3/16	3 1/2	2			8		10
415		5.75	1 1/8	1/2	3 1/2				8		12 1/2
446	\$2.50						3x2 1/2			1/4"	7
447	2.10							3x1 3/8 3 1/2 x 1 3/8		1/4"	9

Standard Package, 6*



BOAT HOOKS

GALVANIZED MALLEABLE IRON OR BRONZE SHARP POINTS



Fig. 223

Size No.	Galvanized Each	For Diam. Pole Inches	Extreme Length Inches	Weight Ounces
0	\$1.85	1	7 1/4	8
1	2.20	1 1/4	8 1/4	12
2	2.45	1 1/2	9 3/8	16
3	4.20	2	9 3/4	28

Standard Package, 12*

BALL POINTS

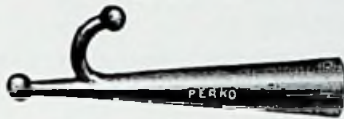


Fig. 224

Size No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	For Diam. Pole Inches	Extreme Length Inches	Wt. Ozs.
3 1/2	\$1.85	\$3.90	\$4.90	1	7 3/8	9
4	2.45	4.20	5.20	1 1/4	8 1/4	12
5	2.75	5.50	6.50	1 1/2	9 3/8	18
6	4.20			2	9 3/4	28

Standard Package, 12*

NOTE—Pole end is measured by outside diameter to fit flush with surface of pole.

Lightweight BOAT HOOK

**ALUMINUM
WHITE RUBBER GRIPS—RUBBER BUMPER**

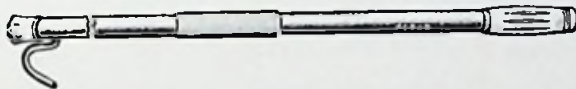


Fig. 226

This boat hook will float if dropped overboard. Has a strong wide hook for quick grab, rubber bumper for pushing.

Length Overall Feet	Each	Diameter Pole Inches	Weight Pounds
5	\$6.25	1	1 1/2
6	6.90	1	2
7	7.55	1	2 1/2

Standard Package, 6**

Special lengths made to order, price on application.

BOAT HOOK HOLDERS

SPRING BRASS

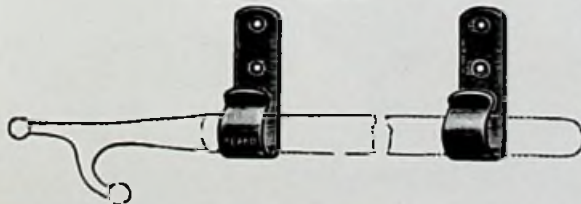


Fig. 490

Will accommodate poles up to 1 1/2 inch in diameter, and hold them firmly in place.

Chromium Plated Per Pair	Length Inches	Width Inches	For Screw No.	Packed Per Box	Weight Ounces
\$2.00	3 1/2	1	8	12 pr.	1 1/2

Standard Package, 12 pair

"Holdall" SPRING CLAMPS

18-8 STAINLESS STEEL—POLISHED

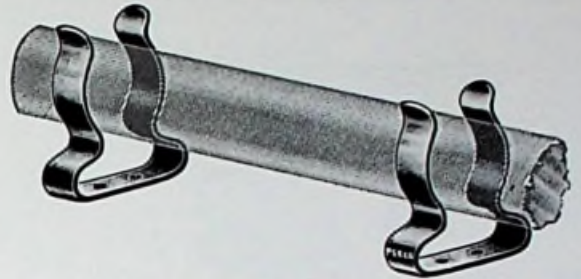


Fig. 502

A clamp having many uses aboard boats of every size and type. Also serves around the home, club, store or factory.

Excellent for stowing fishing rods, boat hooks, oars, swab, broom, flashlight, flagstaff, pump, etc.

Produced in two general sizes but both can be adjusted to tightly clamp objects of various sizes.

No.	Per Pair	Adjustability Inches	Length From Wall Inches	Width of Metal Inches	For Screw No.	Weight Per Pair Ounces
1	\$1.00	5/8 to 1 1/4	1 1/2	1/2	6	2
2	1.25	1 to 1 3/4	2 1/4	3/4	6	2 1/2

Standard Package, 12 pair*

RING BUOY HOLDERS

CAST BRONZE



Fig. 1017

Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Width Mounting Plate Inches	Hgt. Overall Inches	For Screw No.	Wt. Lbs.
\$2.00	\$3.50	\$4.45	3	4 1/2	8	1/2

Standard Package, 12*

BOAT HOOK HOLDERS

18-8 STAINLESS STEEL—POLISHED

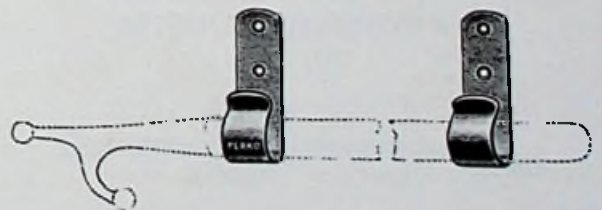


Fig. 492

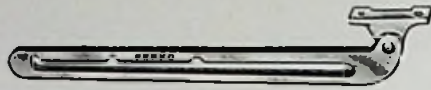
Will accommodate poles up to 1 1/2 inch in diameter, and hold them firmly in place.

Per Pair	Length Inches	Width Inches	For Screw No.	Packed Per Box	Weight Ounces
\$1.50	3 1/2	1	8	12 pr.	1 1/2

Standard Package, 12 Pair



New WINDSHIELD ADJUSTERS ZAMAK DIE CASTINGS—CHROMIUM PLATED



Side
Mounting
Fig. 1290



Offset
Mounting
Fig. 1291

Per Pair	Length Overall Inches	Length Adjustment Inches	Diam. Knob Inches	Weight Pounds
\$9.50	12	9 1/2	1 3/4	1 1/2

Standard Package, 6 Pair

NOTE—When ordering 1/2 pair, specify whether for port or starboard side.

“Skipper” WINDSHIELD ADJUSTER

ALL BRASS—CHROMIUM PLATED
FOR HEAVY CRUISER WINDSHIELDS



Fig. 360

Enables the skipper to adjust the windshield with one hand without leaving the wheel. The large bakelite knob is used for pushing, pulling, tightening or loosening in one operation.

No.	Each	Length Base Overall Inches	Length Windshield Arm Inches	Length of Adjustment Inches	Weight Pounds
1	\$24.00	18	16 1/2	13 1/2	3
2	25.00	27 1/2	23	22 1/2	3 3/4

Special sizes to order, price on application.

WINDSHIELD ADJUSTERS CAST BRASS



Fig. 1116

No.	Polished Brass Each	Chromium Plated Each	Length Inches	Diam. Rod Inches	Weight Ounces
1	\$6.25	\$6.80	8	3/8	11
2	6.35	6.90	10	3/8	12
3	6.45	7.00	12	3/8	13

Standard Package, 6*

WINDSHIELD ADJUSTERS CAST BRONZE



Port Side
Fig. 82

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Overall Inches	Length Adjustment Inches
1	\$13.50	\$16.25	6 1/2	5
2	15.70	19.25	9	7
3	18.40	22.75	12	9 1/2

Standard Package, 6*

NOTE—When ordering 1/2 pair, specify whether for port or starboard side.

WINDSHIELD KEEPER or HATCH FASTENER CAST BRONZE



Fig. 697

Locks the windshield or hatch preventing rattles and assisting in keeping same watertight.

Burnished Per Set	Chromium Plated Per Set	Base of Keeper Inches	Base of Plate Inches	Weight Ounces
\$2.40	\$4.25	1 1/2 x 5/8	1 1/4 x 7/8	3 1/2

Standard Package, 12 Sets*

A set consists of parts illustrated.

RUBBER INSULATION for Windshields BLACK OR WHITE



Fig. 667
For Bottom



Fig. 668
For Sides

Live moulded rubber for glass 1/4 inch thick.

Fig.	Black Per Foot	White Per Foot
667	\$.13	\$.15
668	.09	.10

Fig. 667—Supplied only in 50 ft. lengths.

Fig. 668—Supplied in lengths of 50 feet or longer.

Standard Package, 100 Feet*



Hand WINDSHIELD WIPERS

FOR STRAIGHT OR CURVED WINDSHIELDS
 STAINLESS STEEL EXTENSIBLE ARM AND BLADE HOLDER
 OTHER PARTS, BRONZE, CHROMIUM PLATED
 RUSTPROOF — LEAKPROOF



Fig. 533



No. 1 with Straight Blade

No. 2 with Curved Blade

Nothing to get out of order, operates very smoothly by a flip of the wrist. The improved spring tension of the arm holds blade firmly against the glass.

The arm is extensible from 9 to 12 inches, spring tension is adjustable for best wiping pressure.

No. 1 Each	No. 2 Each	* Length Overall Inches	Diam. Shaft Inches	Length Handle Inches	Weight Ounces
\$7.10	\$7.45	15 to 18	3/8	2 1/2	8

Standard Package, 12*

*Length with 12 inch blade.

For thickness of wood up to 1 1/8 inches.

NOTE: No. 1 can be supplied with 10 inch Blade, please specify.

Spare Arm	each	\$1.50
Spare Straight Blade	each	.80
Spare Curved Blade	each	1.15

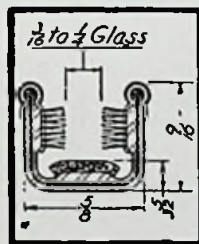
To prevent scratching Plexiglas, do not operate wiper on dry windshield.

Glass Run WINDOW CHANNEL

WITH STAINLESS STEEL BEAD



Fig. 482



Vulcanized rubber covered, mohair lined. The highest quality channel of its type.

Supplied only in 8 foot lengths.

Per Length	Outside Width Inches	Height Inches	For Glass Inches	Weight Per Length Pounds
\$5.80	3/8	3/8	3/16-1/4	1 1/4

Standard Package, 12 Lengths.

SLIDING WINDOW HANDLE

BRASS—CHROMIUM PLATED

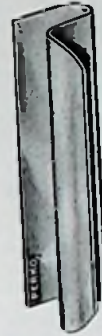


Fig. 954

For 1/4 inch glass.

A useful handle made for easier operation of sliding windows.

Each	Length Inches	Weight Ounces
\$1.35	3	1

Standard Package, 25

WOOD RAIL HINGES and LOCKS

CAST BRONZE



Fig. 122



Fig. 123

Lock has spring latch on bottom.

Fig. 122

No.	Polished Bronze Each	Chromium Plated Each	Size Rail Inches	Length Inches	Weight Pounds
1	\$11.50	\$13.00	2 1/16 x 1 3/16	5	1 3/8
2	11.50	13.00	2 3/16 x 1 1/4	3 3/4	1 3/8

Fig. 123

No.	Polished Bronze Per Set	Chromium Plated Per Set	Size Rail Inches	Length Inches	Weight Pounds
1	\$12.00	\$13.50	2 1/16 x 1 3/16	5	1 3/8
2	12.00	13.50	2 3/16 x 1 1/4	3 3/4	1 3/8



HAND RAIL SOCKETS CAST BRONZE

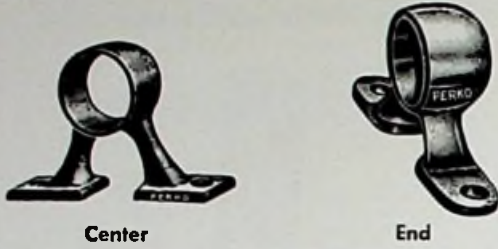


Fig. 215

No.	Polished Bronze Each	Chromium Plated Each	For Diam. Rail Inches	Height Overall Inches	Size of Base Inches	Weight Ounces
1	\$3.00	\$4.00	1	1 3/4	3 1/2 x 3/8	5
2	3.50	4.50	1 1/2	2	3 1/2 x 3/4	9

Standard Package, 6*
Please specify whether center or end and size.
Drilled for No. 10 screw.

GRAB RAIL POSTS CAST BRONZE—HOLLOW



Fig. 380

No.	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Overall Inches	Diam. Hole Inches	Weight Each Pounds
1	\$3.45	\$4.50	2 1/2	3 3/8	1 or 1 1/8	5/8
2	5.00	6.50	3	3 1/2	1 1/4	1 1/4

Standard Package, 6*
Specify whether for center or end, also diameter of hole for No. 1 size. Drilled for No. 10 screw.

STANCHION POSTS CAST BRONZE



Fig. 614—For End
Fig. 615—For Center

Size No.	Polished Bronze Each	Chromium Plated Each	Extreme Height of Post Inches	Diam. Base Inches	Bored For
1	\$2.00	\$2.80	2	1 3/8	5/8" Rod
1 1/2	2.00	2.80	2	1 1/4	1/2" Pipe
2	2.30	3.20	2 1/2	1 3/8	3/8" Rod
2 1/2	2.30	3.20	2 1/2	1 3/8	1/4" Pipe

Standard Package, 6*
Drilled for No. 8 screw.

Streamline GRAB RAIL POSTS CAST BRONZE

Notice that the tubing does not pass through the post but fits snug over an integral projecting part of post, hence, the post and tubing when assembled provides a smooth streamline unit. No unsightly bulges.

FOR 5/8 INCH O.D. TUBING—22 B & S GAUGE



Fig. 432

Chromium Plate Each	Height Overall Inches	Dimensions Base Inches	For Screw No.	Weight Each Ounces	Packed Per Box
\$3.75	1 3/8	2 1/4 x 1 1/4	6	5	6

Standard Package, 12 Ends or 6 Centers.
Please specify whether center or end required.

FOR 1 INCH O.D. TUBING—20 B & S GAUGE



Fig. 413

Chromium Plated Each	Height Overall Inches	Dimensions Base Inches	For Screw No.	Weight Each Ounces	Packed Per Box
\$5.25	2 1/4	3 x 2	8	10	6

Standard Package, 12 Ends or 6 Centers.
Please specify whether center or end required.

Fig. 498 BRASS TUBING FOR ABOVE

Outside Diameter Inches	Chromium Plated Per Foot
5/8	\$1.80
1	2.40

Standard Package, 6 — 6 Foot Lengths.
Not supplied in lengths longer than 6 feet.
Price applies to each foot or any fraction thereof.

GRAB RAILS

CAST BRONZE POSTS—BRASS TUBING



Fig. 379

Length Between Posts Inches	Diameter of Tubing			
	1 Inch		1 1/8 Inch	
	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each
6	\$8.15	\$10.25	\$8.65	\$10.75
12	8.65	11.50	9.20	11.50
18	9.50	12.50	10.25	12.85

NOTE—Lengths longer than those listed above are made to order only and are not returnable.

Longer Lengths

Polished Brass	Chromium Plated
\$1.95	\$2.55

Posts only, end or center, see Fig. 380.
Not supplied in lengths longer than 6 feet.



Regular DECK PLATES
CAST BRONZE—WITH KEY



Fig. 526

Diam. Opening Inches	Machine Finish Complete Each	Polished Chromium Plated Complete Each	Keys Only Each	Outside Diam. Plate Inches	Weight Pounds
1	\$ 2.45	\$ 4.10	\$.30	2½	½
1½	3.55	5.25	.35	3¼	¾
2	4.30	6.55	.35	3¾	¾
2½	5.50	7.85	.65	4½	1
3	6.50	8.90	.65	4¾	1½
3½	8.40	11.00	.70	5½	1¾
4	10.00	13.25	.70	5¾	2
5	14.85	19.00	.85	7¼	2¾
6	17.20	23.00	1.55	8¼	5
8	41.50	56.00	2.20	10¼	7

Standard Package, Up To 3 Inch Size, 12*

Standard Package, 3½ Inch and Larger, 6*

Caps only, price is 50% of complete plate.

Pipe DECK PLATES

CAST BRONZE—WITH KEY—I. P. S. THREAD



Fig. 528

Words, "water," "gas," "oil" or "fuel" shown in flange of all sizes except ¾ inch when specified, otherwise unmarked deck plates are supplied.

Note, markings are in flange instead of cap. This is an obvious advantage as plate is identified when cap is removed.

Pipe Size Inches	Machine Finish Complete Each	Polished Chromium Plated Complete Each	Keys Only Each	Outside Diam. Plate Inches	Weight Pounds
¾	\$ 3.00	\$ 4.00	\$.25	2¾	½
1	3.40	4.55	.30	2¾	¾
1¼	4.20	5.65	.30	3¼	¾
1½	5.00	6.60	.30	3¾	1
2	6.30	7.85	.45	4¼	1½
2½	8.10	9.20	.45	4¾	2
3	11.25	11.80	.55	5¾	2½

Standard Package, 12*

Caps only, price is 50% of complete plate.

DECK PLATE KEY

CAST BRONZE—BURNISHED
ADJUSTABLE TO ALL SIZES OF DECK PLATES
IMPROVED UNBREAKABLE PINS



Fig. 826

Will fit all sizes of deck plates up to 8 inch diameter, making it unnecessary to have separate keys for each plate.

Each	Length Overall Inches	Weight Pounds
\$2.40	8½	1

Standard Package, 12

GAS TANK CAPS

WITH DECK FLANGE AND 15 INCHES OF CHAIN
ZAMAK DIE CASTINGS—CHROMIUM PLATED



Fig. 1245

Each	Threaded for Pipe Inches	Height Overall Inches	Diam. Deck Flange Inches	For Screw No.	Weight Ounces	Packed Per Box
\$3.50	1½	1¼	3¾	7	9½	6

Standard Package, 12

CAST BRONZE—CHROMIUM PLATED



Fig. 520

Each	Threaded for Pipe Inches	Height Overall Inches	Diam. Deck Flange Inches	For Screw No.	Weight Pounds
\$7.00	1½	1¾	3¾	8	1

Standard Package, 6



New Gas Tank VENT CAST BRONZE WITH FLANGE NUT - NO ELBOW

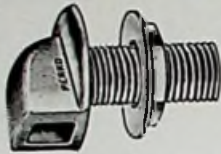


Fig. 512

No.	Plain Each	Chromium Plated Each	Pipe Size Inches	For Wood Inches	Weight Ounces
1	\$2.25	\$3.95	3/8	1 1/4	5
2	2.25	3.95	1/2	1 1/4	5

Standard Package, 12*

Gas Tank VENTS CAST BRONZE - WITH FLANGED ELBOW



Fig. 503

No.	Plain Each	Chromium Plated Each	Pipe Size Inches	For Wood Inches	Weight Ounces
1	\$3.20	\$4.50	3/8	1 1/4	8
2	3.20	4.50	1/2	1 1/4	8

Standard Package, 12*

New Cockpit SCUPPER CAST BRONZE WITH RUBBER BALL BACK WATER CHECK



Fig. 142

Especially needed in sailboats when outlet is below the waterline.

Each	Diameter Flange Inches	Diameter Grate Inches	For Diam. Hose Inches	Weight Pounds
\$7.00	3 1/4	1 1/4	1	1 1/4

Standard Package, 6

"Neptune" Marked LEAD LINES WITH VINYLITE PLASTIC MARKERS 1-INCH CIRC. ITALIAN HEMP LINE

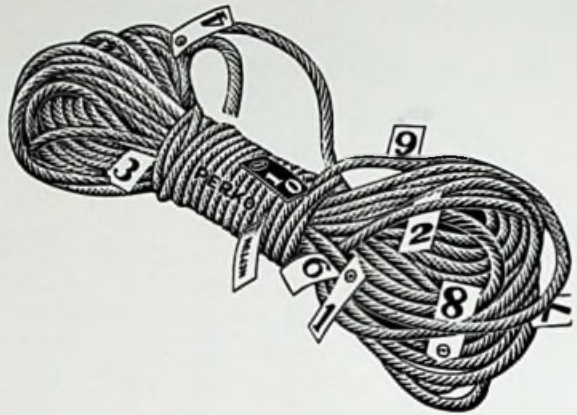


Fig. 190

A lead line that makes sense and can be easily read by anyone using it regardless of experience.

Instead of the old cryptic markings, it makes use of colored Vinylite Plastic Markers printed with numerals in contrasting colors. These markers are soft and resilient, unaffected by salt, grease, oil and sunlight.

The Neptune line was widely used during the war by the Navy, Army and U. S. Maritime Commission.

Length Fathoms	Each	Length Fathoms	Each
7	\$ 7.70	25	\$17.70
10	9.25	30	20.80
15	12.30	40	27.70
20	14.65	50	34.25

Longer lengths made to order, price on application.

NOTE: Markings up to 10 fathoms inclusive marked every fathom and half fathom, the latter indicated by yellow strip.

Longer lines marked according to Navy standard i.e. 2-3-5-7-10-13-15-17-20 fathoms and every 5 fathoms thereafter.

SOUNDING LEADS



Fig. 940

All weights from 2 to 16 pounds each inclusive carried in stock.

	Per Pound
2 to 5 Pounds	\$.78
6 to 14 Pounds . . . . .	.75
Larger Sizes . . . . .	.72



Stainless Steel "Hy-Gear" Marine HOSE CLAMPS

EXTRA WIDE BAND—NO RIVETS—NO WELDS

HIGH SPEED — Goes on with hose in position. . . Safety collar on screw keeps screw driver from slipping.



HIGH POWER — Gear-drive principle assures positive, leak-proof seal under all conditions.

Fig. 5200
18-8 STAINLESS STEEL BAND AND HOUSING WITH CADMIUM PLATED SCREW.

Fig. 6400
100% ALL 18-8 STAINLESS STEEL BAND. HOUSING AND SCREW.

Fig. 5200			Size Hose Inches		Clamp Diameter Inches		Box Quantity	Weight Per 100 in Pounds	Fig. 6400	
Part Number	Price Per 100		From	To	Min.	Max.			Part Number	Price Per 100
*5210	\$32.00		3/8	3/8	3/8	1 1/8	10	6	*6410	\$45.00
5212	33.00		3/8	3/8	1/2	1 1/4	10	6	6412	46.00
5216	33.00		3/8	1	1/2	1 1/2	10	7	6416	46.00
*5220	34.00		1	1 1/4	1/2	1 3/4	10	7	*6420	47.00
*5228	35.00		1 1/4	1 3/4	1 3/8	2 1/4	10	8	*6428	49.00
*5236	37.00		1 3/4	2 1/4	1 3/4	2 3/4	10	9	*6436	51.00
5244	40.00		2 1/4	2 3/4	2 3/8	3 1/4	10	9	6444	54.00
5252	43.00		3	3 3/4	2 3/8	3 3/4	50	11	6452	57.00
5256	43.00		3 1/4	3 1/2	3 1/8	4	50	11	6456	57.00
5264	46.00		3 1/2	4	3 3/8	4 1/2	50	12	6464	61.00

*The most popular stock sizes.
Standard Package, 300**
Large Package, 1000**

Universal Marine HOSE CLAMPS

ALL 18-8 STAINLESS STEEL OR ELECTRO GALVANIZED STEEL WITH ZINC PLATED SCREW



Fig. 499

INSTANTLY ADJUSTABLE FOR ANY SIZE HOSE UP TO 6 INCH

These two sizes do the job of eight or more sizes necessary when ordinary hose clamps are used.

These may be used for larger sizes of hose by joining two or more clamps together, used in this way the size range is practically unlimited.

No.	Stainless Steel Each	Electro Galvanized Each	Length Open Inches	Width Strap Inches	Box Quantity	Weight Ounces
1	\$.55	\$.14	12	1/2	50	1 1/2
2	.70		18	1/2	50	2

Standard Package, 300**

Size No. 1 shipped unless otherwise specified.

"STOCKIT"

STAINLESS STEEL "HY-GEAR" HOSE CLAMPS IN COUNTER DISPLAY



Fig. 5200-S
Fig. 6400-S

A combination display and stock holder of permanent steel construction, clear plastic bins, stocked with 100 clamps in the four most popular sizes.

Fig. 5200-S Contents	
20	# 5210
20	# 5220
40	# 5228
20	# 5236
Complete — \$35.00	

Fig. 6400-S Contents	
20	# 6410
20	# 6420
40	# 6428
20	# 6436
Complete — \$49.75	



Nylon Covered TILLER ROPE

7x8 AIRCRAFT CABLE — VERY FLEXIBLE



Fig. 760

The nylon coating cushions the wires against abrasion and protects them against oils, detergents, alkalies and oxidizing acids.

Outside Diameter Inches	Per 100 Feet	Core Diameter Inches	Breaking Strength Pounds	Weight Per 100 ft. Pounds
$\frac{3}{32}$	\$16.00	$\frac{3}{32}$	1000	1.6
$\frac{3}{16}$	21.00	$\frac{3}{16}$	1000	3.6

Supplied in 250 foot reels or counter display cartons of 10-35 foot coils per carton.

Standard Package, 1000 to 4999 Feet**

Large Package, 5000 or more Feet*

Vinyl Covered TILLER ROPE

Same appearance and construction as Fig. 760 above but with blue transparent polyvinyl plastic covering. High quality.

Fig. 857

Outside Diameter Inches	Per 100 Feet	Core Diameter Inches	Breaking Strength Pounds	Weight Per 100 Ft. Pounds
$\frac{3}{16}$	\$12.00	$\frac{3}{32}$	1000	2.6

Supplied in 250 foot reels or counter display cartons of 10-35 foot coils per carton.

Standard Package, 1000 to 4999 Feet**

Large Package, 5000 or more Feet*

Tiller Rope CLAMPS

ZAMAK DIE CASTINGS



Fig. 1226

For Rope Diam. Inches	Natural Finish Each	Chromium Plated Each	Length Inches	Width Inches	Weight Ounces
$\frac{1}{8}$	\$.30	\$.40	1 $\frac{1}{4}$	$\frac{3}{16}$	$\frac{3}{4}$
$\frac{3}{16}$	.32	.45	1 $\frac{1}{4}$	$\frac{1}{8}$	1
$\frac{1}{4}$	.43	.57	1 $\frac{1}{2}$	$\frac{1}{4}$	1 $\frac{1}{4}$

Packed per box 50 pieces.
Standard Package, 50 pieces*

GALVANIZED IRON AND CAST BRONZE



Fig. 358

For Rope Diameter Inches	Galv. Each	Plain Bronze Each	Width Inches	Length Inches	Packed Per Box	Weight Ounces
$\frac{1}{8}$	\$.30	\$.40	$\frac{3}{4}$	1 $\frac{1}{4}$	20	1 $\frac{1}{4}$
$\frac{3}{16}$	.33	.44	$\frac{3}{4}$	1 $\frac{1}{4}$	20	2
$\frac{1}{4}$	.40	.58	1	1 $\frac{1}{4}$	20	3
$\frac{3}{16}$	.54	.70	1	2	10	3 $\frac{1}{2}$
$\frac{1}{4}$	.84	1.55	1 $\frac{1}{4}$	2 $\frac{1}{4}$	10	5

Standard Package, 20*

Braided TILLER ROPE

MAHOGANY COLOR—BRONZE WIRE CENTER



Fig. 761

No.	Outside Diam. Inches	Per 100 Feet
6	$\frac{3}{16}$	\$11.80
8	$\frac{1}{4}$	15.50
12	$\frac{3}{8}$	20.00

NOTE—Size Nos. 6 and 8 only in 500 foot coils.

Larger sizes in 250 foot coils.
Standard Package, 1000 ft.**

Tiller Rope TIGHTENERS

CADMIUM PLATED STEEL OR ALL BRASS

For eliminating slack and keeping tension on tiller rope at all times.

SHORT TYPE



Fig. 732

Maximum pull 80 pounds

LONG TYPE



Fig. 754

Maximum pull 100 pounds

Fig.	Steel Each	All Brass Each	Normal Length Inches	Length Compressed Inches	Outside Diameter Inches	Weight Ounces
732	\$.40	\$.85	4	5	1 $\frac{1}{6}$	4 $\frac{1}{2}$
754	.40		5 $\frac{1}{4}$	7 $\frac{1}{4}$	$\frac{3}{4}$	5

Packed per box 25 pieces.
Standard Package, 75**
Large Package, 250**

Tiller ROPE GUIDES

BRASS SPRING WIRE



Fig. 229



Fig. 932

Brass Each	Chromium Plated Each	Brass Each	Chromium Plated Each	Size Hole Inches	Length Inches	Weight Ounces
\$.12	\$.16	\$.12	\$.16	$\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{1}{3}$

Standard Package, 100 ††
Large Package, 500 ††
Packed per box, 50 pieces.



Tiller ROPE GUIDES FORGED BRONZE



Fig. 359

	Chromium Plated Each	Size Hole Inches	Size Base Inches	Weight Ounces
Dull Bronze Each	\$.50	$\frac{3}{8}$	$1\frac{1}{8} \times \frac{3}{4}$	$\frac{3}{4}$
Chromium Plated Each	\$.95	$\frac{3}{8}$	$1\frac{1}{8} \times \frac{3}{4}$	$\frac{3}{4}$

Standard Package, 25**
Packed per box, 25

Tiller ROPE GUIDES GALVANIZED CAST IRON OR BRONZE OVAL PLATE



Fig. 599

No.	Galv. Iron Each	Plain Bronze Each	Chromium Plated Each	Size Hole Inches	Size Base Inches
1	\$.25	\$.50	\$.95	$\frac{3}{8}$	$1\frac{1}{8} \times \frac{3}{8}$
2	.30	.50	1.00	$\frac{1}{2}$	$1\frac{1}{2} \times \frac{3}{8}$

Standard Package, 25**
Packed per box, 25
No. 1 size is forged bronze. Both sizes for No. 6 screw.

Tiller ROPE GUIDES ZAMAK DIE CASTING—CHROMIUM PLATED

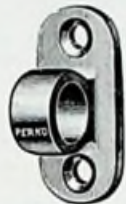


Fig. 1256

Chromium Plated Each	Size Hole Inches	Size Base Inches	For Screw No.	Weight Ounces	Packed Per Box
\$.50	$\frac{3}{16}$	$1\frac{1}{2} \times \frac{3}{4}$	6	$\frac{1}{2}$	25

Standard Package, 25

Tiller ROPE GUIDES ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1261

Chromium Plated Each	Size Hole Inches	Size Base Inches	For Screw No.	Weight Ounces	Packed Per Box
\$.50	$\frac{3}{16}$	$1\frac{1}{2} \times \frac{3}{4}$	6	$\frac{1}{2}$	25

Standard Package, 25

Tiller ROPE GUIDES ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1243

Chromium Plated Each	For Diam. Rope Inches	Size Base Inches	For Screw No.	Weight Ounces	Packed Per Box
\$1.10	$\frac{1}{4}$	$2 \times \frac{3}{4}$	8	$1\frac{3}{4}$	25

Standard Package, 25

Tiller ROPE GUIDES CAST BRONZE—BURNISHED



Fig. 885

Each	For Rope Size Inches	Size Sheave Inches	Weight Ounces	Packed Per Box
\$1.00	$\frac{1}{4}$	$\frac{3}{4} \times \frac{3}{8}$	$3\frac{1}{2}$	10

Standard Package 10

COAMING or THRU-DECK PULLEYS CAST BRONZE OR CAST ALUMINUM WHITE NYLON SHEAVE



Fig. 617

No.	Polished Aluminum Each	Burnished Bronze Each	Chromium Plated Each
1	\$1.90	\$1.75	\$2.35
2		2.00	2.85

No.	Diam. Sheave Inches	For Diam. Rope Inches	Dimensions of Plate Inches	For No. Screw	Weight Bronze Ounces
1	$1\frac{3}{4}$	$\frac{5}{16}$	$3\frac{5}{8} \times 1\frac{3}{8}$	8	4
2	$2\frac{3}{8}$	$\frac{5}{16}$	$4\frac{1}{4} \times 1\frac{3}{8}$	8	6

Tiller ROPE GUIDES FORGED BRONZE



Upright
Fig. 593



Side
Fig. 594

Fig.	Dull Bronze Each	Polished Bronze Each	Chromium Plated Each	For Diam. Rope Inches	Size Base Inches	Wt. Ozs.
593	\$1.10	\$1.45	\$1.75	$\frac{1}{4}$	$1\frac{3}{8} \times \frac{3}{8}$	$2\frac{1}{4}$
594	1.00	1.35	1.65	$\frac{1}{4}$	$2\frac{1}{8} \times \frac{7}{8}$	$2\frac{1}{4}$

Standard Package, 12*
Drilled for No. 8 screw—Packed 12 pieces per box.

Standard Package, 12*
NOTE—No. 2 is O.B.C. recommended size.



TILLER ROPE PULLEYS

WITH WHITE NYLON SHEAVE—1½ INCH DIAMETER SCORE
FOR TILLER ROPE UP TO 5/16 INCH DIAMETER

**POLISHED STAINLESS STEEL BODY
WITH CHROMIUM PLATED ZAMAK EYE AND STRAP
SWIVEL TYPE**



Fig. 629

Complete Each	Length Overall Inches	Diam. Sheave Overall Inches	Length Strap Inches	Weight Ounces	Packed Per Box
\$1.20	3¾	1¾	1⅞	1½	25

Without strap, deduct \$.20 each.

**ZAMAK DIE CAST BODY, EYE AND STRAP
ALL CHROMIUM PLATED—SWIVEL TYPE**



Fig. 1241

Complete Each	Length Overall Inches	Diam. Sheave Overall Inches	Length Strap Inches	Weight Ounces	Packed Per Box
\$1.25	3¾	1¾	1⅞	3	25

Without strap, deduct \$.20 each.

**POLISHED STAINLESS STEEL BODY
CHROMIUM PLATED ZAMAK STRAP
SWINGING—NON-SWIVEL TYPE**



Fig. 551

Complete Each	Length Overall Inches	Diam. Sheave Overall Inches	Length Strap Inches	Weight Ounces	Packed Per Box
\$.75	2½	1¾	1⅞	1½	25

**HEAVY DUTY
FORGED BRONZE BODY, EYE AND STRAP
NATURAL FINISH—SWIVEL TYPE**

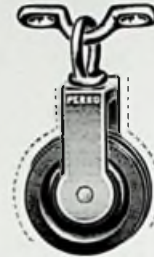


Fig. 585

To take the strain of racing and large horsepower motors. Patented swivel will not jam.

Plain Bronze Each	Length Overall Inches	Diam. Sheave Overall Inches	Length Strap Inches	Weight Ounces	Packed Per Box
\$1.75	3¾	1¾	1⅞	4	25

Without strap, deduct \$.25 each.

**SWIVEL SNAP TYPE
FOR ATTACHING TO MOTOR**



Length Overall Inches	Snap Throat Opening Inches	Diam. Sheave Overall Inches	Weight Ounces	Packed Per Box
4⅞	½	1¾	3½	25

Fig. 611 — \$1.60 each

Has polished stainless steel body with chromium plated Zamak die cast snap tested to 630 pounds.

Fig. 1288 — \$1.75 each

Has chromium plated Zamak die cast body and snap tested to 630 pounds.

Standard Package, entire page 100*

Large Package, entire page 500*



O. B. C. RECOMMENDED SIZE

TILLER ROPE PULLEYS

WITH WHITE NYLON SHEAVE—2 INCH DIAMETER SCORE
FOR TILLER ROPE UP TO 3/8 INCH DIAMETER

**POLISHED STAINLESS STEEL BODY
WITH CHROMIUM PLATED ZAMAK EYE AND STRAP
SWIVEL TYPE**



Fig. 633

Complete Each	Length Overall Inches	Diam. Sheave Overall Inches	Weight Ounces	Length Strap Inches	Packed Per Box
\$1.30	3 3/8	2 3/8	2 1/2	1 1/8	25

Without strap, deduct \$.20 each.

**CHROMIUM PLATED ZAMAK DIE CASTINGS
SWIVEL TYPE—WITH STRAP**



Fig. 1277

Complete Each	Length Overall Inches	Diam. Sheave Overall Inches	Weight Ounces	Length Strap Inches	Packed Per Box
\$1.55	4	2 3/8	3	1 3/8	25

Without strap, deduct \$.20 each.

**CHROMIUM PLATED ZAMAK DIE CASTINGS
SWIVEL TYPE—WITH SNAP**

**POLISHED STAINLESS STEEL BODY
WITH CHROMIUM PLATED ZAMAK SNAP
SWIVEL TYPE**



Fig. 634

Complete Each	Length Overall Inches	Snap Throat Opening Inches	Diam. Sheave Overall Inches	Weight Ounces	Packed Per Box
\$1.65	4 3/8	1/2	2 3/8	3	25



Fig. 1287

Complete Each	Length Overall Inches	Snap Throat Opening Inches	Diam. Sheave Overall Inches	Weight Ounces	Packed Per Box
\$2.05	5	1/2	2 3/8	4	25

Snap tested to 630 pounds.

**DOUBLE WHITE NYLON SHEAVES
CHROMIUM PLATED ZAMAK BODY AND STRAP**

**Economy TILLER ROPE PULLEY
FORGED BRONZE BODY AND STRAP
IMPACT TESTED PLASTIC SHEAVE**



Fig. 579

Natural Finish Each	Length Pulley Inches	Size Sheave Inches
\$.95	1 3/8	1 1/8 x 3/8

Length Strap Inches	For Diam. Rope Inches	Weight Ounces
1 3/8	1/4	1 3/4

Without strap, deduct \$.20 each.



Fig. 1216

No.	Complete Each	Length Overall Inches	Diam. Sheave Overall Inches	Length Strap Inches	Weight Ounces	Packed Per Box
1	\$1.50	3 3/8	1 3/4	1 3/8	2 1/2	25
2	1.65	3 3/8	2 3/8	1 3/8	2 3/4	20

Without strap, deduct \$.20 each.



EYE STRAPS

ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1242

Chromium Plated Each	Length Inches	Size Eye Inches	Stock in Eye Inches	For Screw No.	Weight Ounces	Packed Per Box
\$.20	1 1/8	3/8	1/4	8	1/4	50

Standard Package, 100

Large Package, 500

EYE STRAPS

FORGED BRONZE



Fig. 881

No.	Natural Bronze Each	Chromium Plated Each	Length Inches	Size Eye Inches	Stock in Eye Inches	For Screw No.	Wt. Ozs.
0	\$.25	\$.50	1 1/8	3/8	1/4	8	1/2
1	.35	.60	2 1/4	3/8	1/2	10	3/4
2	.40	.75	2 3/4	1/2	3/8	10	1 1/2

Standard Package, No. 0 only, 100*

Packed per box, Nos. 0 and 1, 50 pcs. No. 2, 25 pcs.

DECK STRAPS

CAST BRONZE



Fig. 882

No.	Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Inches	Size Eye Inches	Stock in Eye Inches	Wt. Ozs.
1	\$.80	\$1.30	\$1.60	3 1/2	1/2	3/8	1 1/2
2	1.00	1.80	2.20	4 1/4	3/8	3/8	2 1/2

Standard Package, 1 box*

Packed per box, No. 1, 25 pcs. No. 2, 10 pcs.

Drilled for No. 8 screw.

FLANGE EYES

CAST BRONZE



Fig. 877

Size No.	Plain Bronze Each	Polished Bronze Each	Polished Chromium Plated Each	Size Opening Inches	Size Base Inches	Weight Ounces
1	\$.35	\$.70	\$.95	5/8	2 1/4 x 1 1/8	1
2	.65	1.10	1.35	3/4	2 1/4 x 1 3/8	2

Standard Package, 12*

Fast Eye BLOCKS

GALVANIZED MALLEABLE IRON OR BRONZE Single

Without Becket

With Becket Galv. Only



Fig. 43



Fig. 54

Size No.	Galv. Each Fig. 43	Galv. Each Fig. 54	Plain Bronze Each Fig. 43	For Diam. Rope Inches	Size Sheaves Inches	Weight Pounds Each
1	\$.32	\$.40	\$.55	3/16	3/4 x 3/8	3/32
3	.43	.55	.70	1/4	1 x 3/8	3/16
5	.54	.65	1.30	3/8	1 3/8 x 1/2	1/4
7	.70	.95	1.45	3/8	1 1/2 x 1/2	3/8
9	.95	1.30	2.00	3/8	1 3/4 x 3/8	1/2
11	1.35	1.65	2.40	1/2	2 x 3/8	3/8
13	2.20			5/8	2 1/2 x 3/4	1 1/8
15	3.35			3/4	3 x 3/8	1 3/8

NOTE—Blocks with becket supplied only in galvanized.

Fast Eye BLOCKS

GALVANIZED MALLEABLE IRON OR BRONZE DOUBLE

Without Becket

With Becket Galv. Only



Fig. 51



Fig. 55

Size No.	Galv. Each Fig. 51	Galv. Each Fig. 55	Plain Bronze Each Fig. 51	For Diam. Rope Inches	Size Sheaves Inches	Weight Pounds Each
2	\$.55	\$.65	\$1.40	3/16	3/4 x 3/8	3/8
4	.70	.95	1.50	1/4	1 x 3/8	1/4
6	1.00	1.30	2.75	3/8	1 3/8 x 1/2	3/8
8	1.25	1.40	3.45	3/8	1 1/2 x 1/2	3/8
10	1.45	1.85		3/8	1 3/4 x 3/8	3/8
12	1.95	3.10		1/2	2 x 3/8	1 1/4
14	3.45	5.50		5/8	2 1/2 x 3/4	2 3/8
16	7.00	8.10		3/4	3 x 3/8	2 3/4

NOTE—Blocks with becket supplied only in galvanized. Standard Package, all fast eye blocks up to sizes No. 7 and 8, 25* larger sizes, 10*



Swivel Eye BLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE

SINGLE



Fig. 100

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Doz. in Lbs.
0	3/16	1	1/2	1/2
1	3/16	1 1/4	3/4	1 1/4
3	1/4	1 3/4	1	2
5	3/8	2	1 1/4	2 1/2
7	3/8	2 1/4	1 1/2	4 1/8

Size No.	Galvanized Iron Each	Plain Bronze Each
0	\$.40	\$1.40
1	.50	1.45
3	.68	1.90
5	1.00	2.30
7	1.15	2.65

Standard Package, 25*

Swivel Eye BLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE

Double



Fig. 101

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Doz. in Lbs.
00	3/16	1	1/2	1 1/4
2	3/16	1 1/4	3/4	2 1/4
4	1/4	1 3/4	1	3 3/8
6	3/8	2	1 1/4	4 1/2
8	3/8	2 1/4	1 1/2	7

Size No.	Galvanized Iron Each	Plain Bronze Each
00	\$.90	\$1.90
2	.95	2.10
4	1.20	2.65
8	1.45	5.35
6	2.50	7.00

Standard Package, 25*

BLOCKS on Plates
MALLEABLE IRON OR BRONZE



Fig. 107

Size No.	Cadmium Plated Each	Plain Bronze Each	For Diam. Rope Inches	Style Block	Weight Per 100 in Lbs.
3	\$1.45	\$3.45	1/4	Swivel Eye	31
5	1.55	4.10	3/8	Swivel Eye	47
7	1.75	4.95	3/8	Swivel Eye	75
9	3.35		3/8	Fast Eye	100

Standard Package, 12*

DECK BLOCKS
OPEN PATTERN
GALVANIZED IRON OR BRONZE
SINGLE



Fig. 87

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	For Diam. Rope Inches	Size of Sheave Inches	Weight Pounds
0	\$.57	\$.52	\$1.25	3/16	1 1/2 x 3/4	3/8
1	.88	.58	1.75	3/16	1 1/2 x 1/2	3/8
3	1.60	1.10	3.25	1/2	2 x 3/8	3/4
5	2.90	2.20	5.10	3/4	2 1/2 x 3/4	1 1/8
7	4.50	3.50	6.40	3/4	3 x 3/4	2 3/8

Cast iron furnished unless otherwise specified.
Standard Package, 12*

DECK BLOCKS
OPEN PATTERN
GALVANIZED IRON OR BRONZE
DOUBLE



Fig. 88

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches
2	\$1.55	\$1.05	\$2.85	3/8	1 1/2 x 1/2
4	2.90	2.20	5.25	1/2	2 x 3/8
6	4.65			3/4	2 1/2 x 3/4
8	6.95	5.50		3/4	3 x 3/4

Cast iron furnished unless otherwise specified.
Standard Package, 12*



DECK BLOCKS

FOR WIRE ROPE
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 139

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
1	\$1.60	\$3.00	1/4	2 x 3/16	3/8
2	2.75	6.00	3/8	3 x 5/16	1 3/8
3	4.50	9.65	1/2	4 x 3/8	3
3 1/2	8.75		1/2	4 1/2 x 3/8	4 1/4
4	9.50		3/4	5 x 7/8	5 1/4
5	12.40		3/4	6 x 1	8 1/2

Standard Package, 6*

Wire Rope PULLEYS

GALVANIZED MALLEABLE IRON OR BRONZE
UPRIGHT PATTERN



Fig. 279
SINGLE

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
10	\$2.35	\$4.40	3/16	2 1/2 x 3/8	3/8
20	2.80	5.25	1/4	3 1/4 x 1/2	1 1/2
30	4.15	9.50	5/16 - 3/8	4 1/2 x 3/8	2 1/2

Fig. 280
DOUBLE

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
110	\$3.50	\$6.45	3/16	2 1/2 x 3/8	1 1/8
120	3.95	8.30	1/4	3 1/4 x 1/2	2
130	6.65	15.30	5/16 - 3/8	4 1/2 x 3/8	4 3/4

Standard Package, 6*

CHEEK BLOCKS

FOR WIRE ROPE
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 140

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
1	\$1.30	\$3.00	1/4	2 x 3/16	5/8
2	2.00	6.00	3/8	3 x 5/16	1 3/8
3	3.35	9.65	1/2	4 x 3/8	2 3/4
3 1/2	4.85		1/2	4 1/2 x 3/8	4 1/4
4	6.35		3/4	5 x 7/8	5 1/4
5	10.50		3/4	6 x 1	11

Standard Package, 6*

Wire Rope PULLEYS

GALVANIZED MALLEABLE IRON OR BRONZE
SIDE PATTERN



Fig. 194
SINGLE

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
1	\$2.35	\$4.40	3/16	2 1/2 x 3/8	1 1/2
2	2.80	5.25	1/4	3 1/4 x 1/2	1 1/4
3	4.15	9.50	5/16 - 3/8	4 1/2 x 3/8	2 1/2

Fig. 195
DOUBLE

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
11	\$3.50	\$6.45	3/16	2 1/2 x 3/8	1 1/8
12	3.95	8.30	1/4	3 1/4 x 1/2	2
13	6.65	15.30	5/16 - 3/8	4 1/2 x 3/8	4 1/4

Standard Package, 6*

CHEEK BLOCKS

GALVANIZED IRON OR BRONZE
SINGLE



Fig. 95

Size No.	Galv. Cast Iron Each	Galv. Mall. Iron Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
0		\$.80	\$1.40	1/4	1 1/8 x 3/8	3/8
1	.80	1.00	1.80	3/8	1 3/8 x 1/2	1 1/4
2	.88	1.20	2.20	1/2	1 1/2 x 1/2	3/8
3	1.25	1.85	3.70	3/4	2 x 5/8	3/4
4		2.80	4.10	1/2	2 1/2 x 3/4	1 1/4
5		4.65		3/4	3 x 3/4	2
6		8.00		7/8	3 1/2 x 1	4

Standard Package, 12*

CHEEK BLOCKS
GALVANIZED IRON OR BRONZE
DOUBLE



Fig. 96

Size No.	Galv. Mall. Iron Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
11	\$1.75	\$2.80	3/16	1 3/8 x 3/8	1/2
12	2.00	4.20	3/8	1 1/2 x 1/2	1 1/8
13	3.30		1/2	2 x 3/4	1 1/2

Standard Package, 12*



RINGS
POLISHED BRASS



Fig. 417

Inside Diam. Inches	Thickness Inches	Per Dozen	Inside Diam. Inches	Thickness Inches	Per Dozen
1/2	3/32	\$1.35	1 1/4	3/16	\$3.25
3/8	3/32	1.50	1 1/2	3/32	4.45
1/2	3/32	1.75	1 3/4	3/32	6.10
3/4	3/32	2.15	2	1/4	7.15
1	3/32	2.60	2 1/2	3/32	9.25

Standard Package, 3 Dozen*

Dock Line SPRINGS
STEEL—ZINC PLATED



Fig. 759

A very strong compression spring for dock and mooring lines. It cushions the strain and contributes greatly to the life of the line.

Size No. 1 will accommodate 1/2 inch diameter rope, No. 2 for 3/4 inch rope.

No.	Each	Length Overall Inches	Diameter Spring Inches	Diameter Metal Inches	Compression Inches	Weight Pounds
1	\$1.40	10	1 1/2	3/8	4 1/2	3/8
2	3.85	18	2	1/2	8	2 1/4

Standard Package, 6*

ASSORTED SHEAVES
BRONZE OR NYLON
COMMON BUSHED—FOR MANILA ROPE



Fig. 154

BRONZE

No.	Each	Diam. Inches	Thickness Inches	For Rope Inches	For Size Pin Inches
10	\$.45	5/8	3/8	3/16	7/32
18	.85	1 1/4	3/8	3/16	1/4

BLACK NYLON

26	.30	1 1/4	3/8	3/16	1/4
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WHITE NYLON

27	.30	1 1/4	3/8	3/16	1/4
28	.40	2 3/4	3/8	3/16	1/4

Assorted Brass PINS

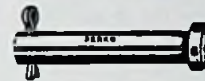


Fig. 1176

No.	Each	Diam. Pin Inches	Length Under Head Inches	Diam. Head Inches	Type Head
1	\$.25	3/16	3/8	1/4	Flat
2	.25	3/16	3/4	1/4	Flat
4	.28	3/16	1	1/4	Flat
5	.28	1/4	3/8	3/8	Round
6	.30	1/4	3/4	3/8	Flat
7	.32	1/4	3/8	3/8	Flat
8	.35	1/4	1 1/8	3/8	Flat
10	.35	1/4	1 1/4	3/8	Flat
11	.35	3/8	3/8	3/8	Flat
15	.37	3/8	1 1/4	3/8	Flat
16	.37	3/8	1 1/2	3/8	Flat
18	.48	3/8	1 3/8	3/8	Flat
27	.75	1/2	1 1/4	3/8	Flat
28	.80	1/2	1 1/2	3/8	Flat

LETTERS and FIGURES
CAST BRONZE

REGULAR PATTERN



Fig. 348

Height Inches	Burnished Bronze Each	For Screw No.	Weight Per 100 in Lbs.
3	\$.65	8	24 1/2

GOTHIC PATTERN



Fig. 313

Height Inches	Burnished Bronze Each	For Screw No.	Weight Per 100 in Lbs.
3	\$.65	8	18

Standard Package, 6*



Wrought Brass FOG BELLS

WITH REMOVABLE BRACKET
PRESSED BELL METAL



Fig. 159

Diameter Inches	Plain Brass Each	Polished Brass Each	Chromium Plated Each	Height Overall Inches	Wt. Lbs.
6	\$8.25	\$10.50	\$11.60	4	1
8	11.90	13.80	15.25	5	2½
Wall Plate only	\$1.15	\$1.50	\$1.85		
Arm only	1.90	2.30	2.95		
Clapper only	1.50	2.05	2.75		
Eye Bolt only	.65	.85	1.10		

Wall plate drilled for No. 6 screw.

Standard Package, 6*

Cast Bronze FOG BELLS

MEDIUM WEIGHT—WITH REMOVABLE BRACKET



Fig. 420

Diameter Inches	Polished Bronze Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$18.50	\$22.00	5	4
8	27.85	32.50	6½	8

WALL PLATE ONLY

6	\$2.20	\$3.00	2½	½
8	3.00	3.75	2½	½

Drilled for No. 8 screw.

Standard Package, 6*

Cast Bronze FOG BELLS

LIGHTWEIGHT—WITH REMOVABLE BRACKET



Fig. 581

Diameter Inches	Polished Bronze Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$13.80	\$16.75	4¼	3
8	19.00	21.00	5¼	5
Wall Plate only	1.40	2.10	2	¼

Drilled for No. 8 screw.

Standard Package, 6*

Cast Bronze FOG BELLS

HEAVY WEIGHT—WITH REMOVABLE BRACKET



Fig. 150

Diameter Inches	Polished Bronze Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
8	\$ 42.00	\$ 52.00	8	10
10	81.00	91.50	10½	22
12	108.00	121.00	12	38

WALL PLATE ONLY

8	\$ 2.65	\$ 3.40	2½	½
10	4.20	5.25	3¾	1
12	5.25	6.30	3¾	1

8 inch wall plate for No. 8 screw.

10 and 12 inch wall plates for ¼ inch bolt.

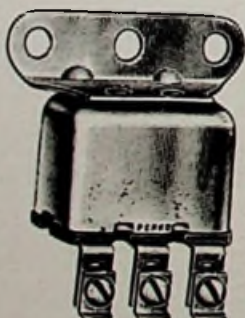


Fig. 273

RELAYS

Eliminates line loss where electric unit is located some distance from the battery.

6 Volts Each	12 Volts Each
\$2.00	\$2.20



FOG HORNS

GALVANIZED STEEL OR BRASS



Fig. 162

Length Overall Inches	Galvanized Steel Per Doz.	Polished Brass Per Doz.
18	\$36.00	\$48.50

Standard Package, 3 Dozen*

Triplex Motor Boat WHISTLE

PLASTIC—ORANGE COLOR



Fig. 167

Per Dozen	Length Overall Inches	Width Overall Inches	Weight Per Dozen Pounds
\$4.80	6	1 3/4	1

Standard Package, 6 Dozen

Police or Signal WHISTLE

BRASS—NICKEL PLATED



Fig. 349

Per Dozen	Length Inches	Width Inches	Weight Per Doz. Ounces
\$13.20	2	3/4	17

Standard Package, 2 Dozen

AIR HORNS

HAND PUMP OPERATED

ALL BRASS HORNS—CHROMIUM PLATED

STEEL OR BRASS PUMPS

Designed and manufactured to meet the needs of the small boat owner for a hand operated loud air horn which combines good looks with practicability, short projector and no battery at a price he can afford.

Supplied complete ready for installation with 6 feet of rubber tubing and mounting brackets for horn and pump.

Can be heard a great distance and operation is effortless.

SINGLE HORN

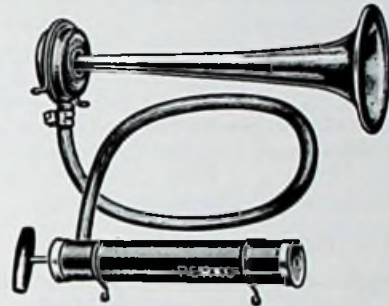


Fig. 631

With Steel Pump Per Set	With Brass Pump Per Set	Length Horn Overall Inches	Length Pump Body Inches	Weight Per Set Pounds
\$25.00	\$32.00	12 1/2	12 3/4	3

Standard Package, 3 ††

DUAL HORNS

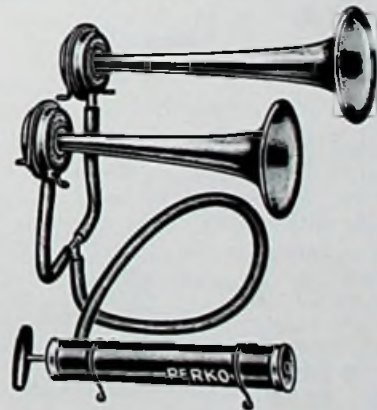


Fig. 632

With Steel Pump Per Set	With Brass Pump Per Set	Length Long Horn Overall Inches	Length Short Horn Overall Inches	Length Pump Body Inches	Weight Per Set Pounds
\$35.00	\$42.00	12 1/2	10 1/2	12 3/4	4

Standard Package, 3 ††

"Sea Echo" HORN
BRASS COVER AND PROJECTOR
BRASS SCREEN—ZAMAK BASE
6 OR 12 VOLTS—CHROMIUM PLATED

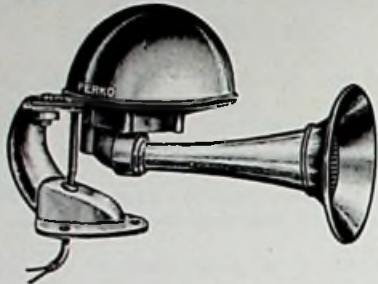


Fig. 590

A very loud resonating horn with short projector and a brass chromium plated screen in the mouth of the projector.

This horn is designed and produced to supply a long felt need for a combination of loud, distinctive tone, short projector and good looks.

Complete with 5½ feet of cable and push button.

Volts	Each	Length Overall Inches	Height Overall Inches	Weight Pounds
6	\$41.50	10¾	7⅞	4¼
12	42.20	10¾	7⅞	4¼

"Sea-Tone" HORN

ALL BRASS—CHROMIUM PLATED—WATERTIGHT
WEATHERPROOF—RESONATING
VOLTAGES—6—12—32—110 D.C.
RANGE—2 MILES

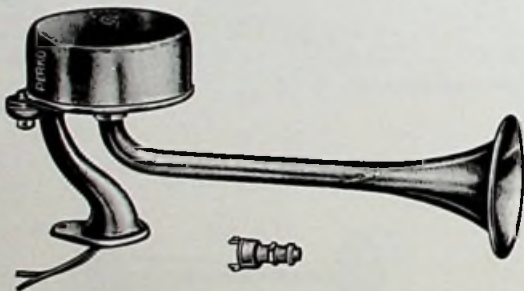


Fig. 576

A horn manufactured for marine use. It has great volume and distinctive tone. It answers the demand for a high quality marine horn that can be heard at great distance and stand the arduous test of use on salt water.

Supplied complete with heavy duty push button and 16 feet of cable in two eight-foot lengths.

Volts	Each	Extreme Length Inches	Extreme Height Inches	Weight Pounds
6	\$ 78.75	19	8½	6½
12	78.75	19	8½	6½
32	78.75	19	8½	6½
110 D.C.	103.00	19	8½	6½

110 A.C. supplied to order, price on application.

Packed in individual cartons.

"Sea-Pitch" HORN
BRASS—CHROMIUM PLATED
6 OR 12 VOLTS



Fig. 1121

A horn designed to meet the need for a brass horn made for marine use at a price that every small boat owner can afford. Has a very loud tone that can be heard at a great distance.

The diaphragm is cadmium plated, salt spray tested.

6 Volt Each	12 Volt Each	Length Overall Inches	Height Overall Inches	Diam. Base Inches	Weight Pounds
\$22.85	\$23.50	5	7¼	3¾	3½

"Tornado" Single HORN

BRASS—CHROMIUM PLATED
STAINLESS STEEL DIAPHRAGM

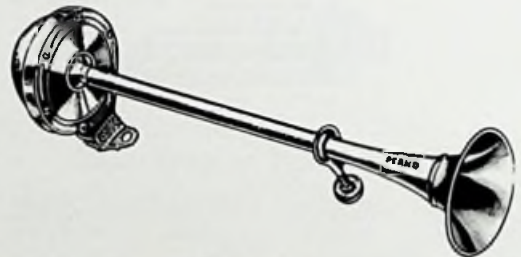


Fig. 989

6 Volt Each	12 Volt Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$36.60	\$36.75	22¾	5⅞	6¼	6

32 Volt, to order, add \$2.40 each.

"Tornado" Twin HORNS

BRASS—CHROMIUM PLATED
STAINLESS STEEL DIAPHRAGM

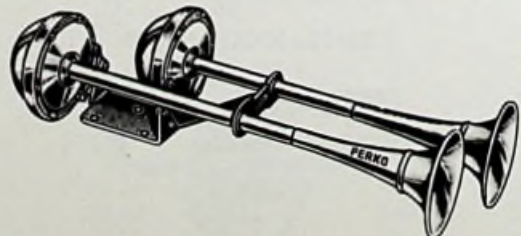


Fig. 990

Supplied with cable, relay and fastenings, no button.

6 Volt Each	12 Volt Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$71.00	\$71.25	24	8¾	5½	12½

32 Volt, to order, add \$5.50 each.

NOTE — PLEASE SPECIFY VOLTAGE, OTHERWISE 6 VOLT WILL BE SUPPLIED

Standard Package, Figs. 590 and 1121 Only, 6 †††



Marine SIRENS

DIE CAST BODY AND BASE
CHROMIUM PLATED—6 OR 12 VOLTS

THE SEA-MITE

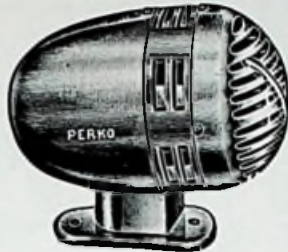


Fig. 1117

A siren of fine tone quality, dependability and performance.

Furnished complete with 10 feet of cable and heavy duty push button.

6 Volt Each	12 Volt Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
\$49.00	\$49.25	7	6	4½	4¼

Standard Package, 6***

Heavy Duty Marine SIREN

DIE CAST BODY AND BASE
CHROMIUM PLATED—6, 12 OR 32 VOLTS

THE YACHTSMAN



Fig. 1118

A siren that audibly commands the right of way. An ear-piercing tone that can be heard for miles.

Has specially designed motor for economical operation. Equipped with greased sealed ball bearings for smooth operation.

Furnished complete with long cable and heavy duty push button.

6 Volt Each	12 Volt Each	32 Volt Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
\$78.75	\$78.75	\$84.50	10½	7½	5¾	10

"Perko" SEA HORN

ZAMAK DIE CASTING—CHROMIUM PLATED
WITH DISPOSABLE FREON CONTAINER
PORTABLE—EXTREMELY LOUD DEEP TONE



Fig. 530

A loud deep toned self-powered horn which can be heard for miles. It commands attention from other boats, bridge tenders, etc.

Requiring no battery or other form of remote power this horn is ideal for outboard motor boats, sailboats, rowboats and other small vessels.

Every freon container has its own valve, therefore, whenever a new container is used a new valve is automatically supplied.

Full container supplies 600 one second blasts.

Each horn packed in attractive counter display box.

Complete Each	Spare Containers Each	Height Overall Inches	Length Overall Inches	Weight Pounds
\$8.00	\$1.75	6½	8¼	1½

Standard Package, 6

Horn PUSH BUTTON



Fig. 275

BRASS — CHROMIUM PLATED
BAKELITE BUTTON AND INTERIOR

Chromium Plated Each	Length Overall Inches	C to C Holes Inches	Diam. Inches	Weight Ounces
\$1.00	2¾	2¼	1½	1

Standard Package, 12

Watertight PUSH BUTTONS

CAST BRONZE



Fig. 978

With nickel silver springs, platinum contacts, rubber gaskets and pig skin cap over button, with screws.

Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Weight Ounces
\$7.20	\$8.95	2¾	6

NOTE — PLEASE SPECIFY VOLTAGE, OTHERWISE 6 VOLT WILL BE SUPPLIED



STREAMLINED MASTS

**CAST ALUMINUM
HINGED FORWARD**

**PAINTED WHITE ENAMEL
WITH CLEAT AND EYES FOR HALYARD**

Note the hinged base with large thumb screw to permit instant lowering of the mast when passing under low bridges. All types have a halyard cleat and a glare shield to reduce reflection of range light.

White enamel is our stock finish, but, of course the owner may repaint to suit his own color requirements.

All lengths shown do not indicate the vertical height above deck but are actually the length of the mast.

STRUCTURAL TYPE WITH 360 DEGREE LIGHT

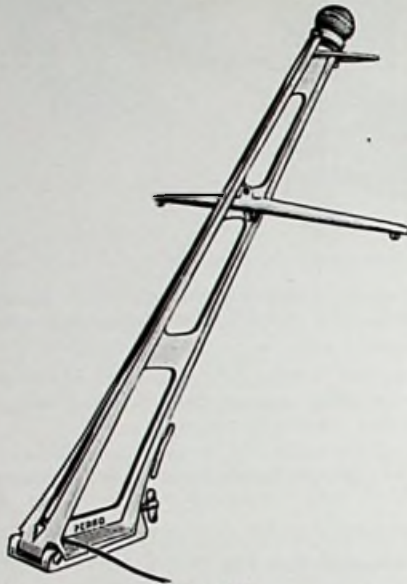


Fig. 37

No.	Each	Length Inches	Dimensions Base Inches	Width Yardarms Inches	Weight Pounds
1	\$54.00	33	7½x3½	23¼	7½
2	72.50	52	9¾x4¾	33¼	13

**STRUCTURAL TYPE
WITH 360 DEGREE AND 225 DEGREE LIGHTS**

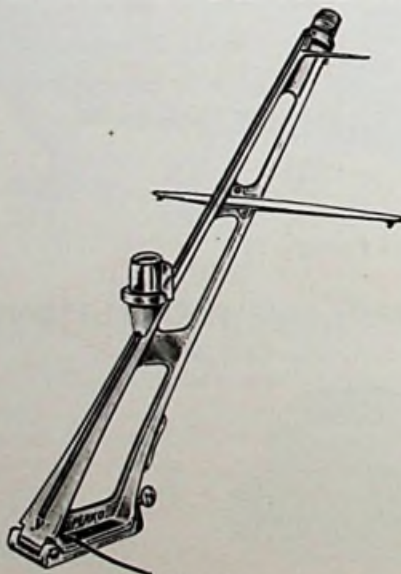


Fig. 40

No.	With Zamak Bow Light Each	With Bronze Bow Light Each	Length Inches	Dimensions Base Inches	Width Yardarms Inches	Weight Pounds
1	\$66.00	\$70.00	33	7½x3½	23¼	7½
2	86.50	90.50	52	9¾x4¾	33¼	13

The 225° bow light is chromium plated.

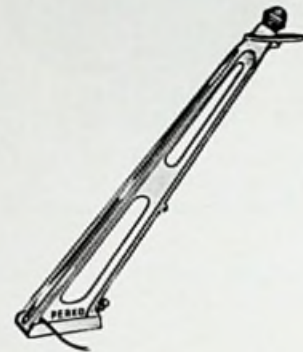


Fig. 47

Each	Length Inches	Dimensions Base Inches	Weight Pounds
\$20.50	22	4½x2¾	2¾

This mast cannot be supplied with yardarm.

**HOLLOW TYPE
WITH 360 DEGREE LIGHT**

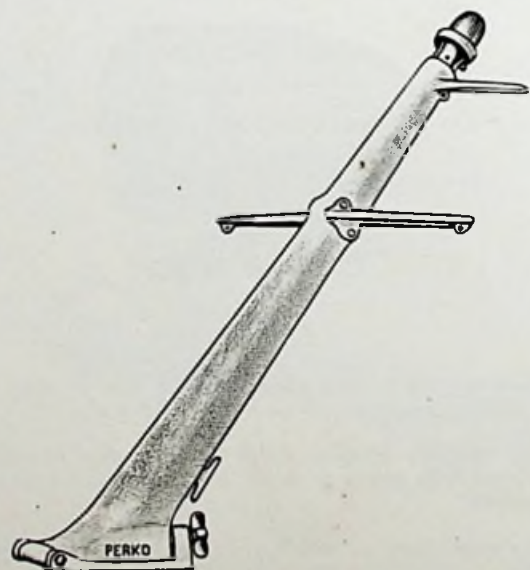


Fig. 41

No.	Each	Length Inches	Dimensions Base Inches	Width Yardarms Inches	Weight Pounds
1	\$57.75	33	8¼x3¾	23½	8
2	83.50	52	10½x4¾	31½	14



ASH TRAYS and GLASS HOLDERS
SWINGING TYPE
ALL BRASS—CHROMIUM PLATED



Fig. 798



Fig. 799

BEER CAN HOLDER

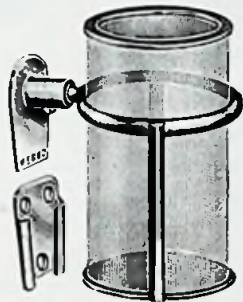


Fig. 804

Holds 12 oz. beer cans or straight sided glasses.

Fig.	Each	Size Mounting Plate Inches	Inside Diam. Ring Inches	Weight Ounces
798	\$7.35	1 3/4 x 1 1/4	2 3/4	13 1/2
799	4.75	1 3/4 x 1 1/4	2 3/4	3 1/2
804	5.00	1 3/4 x 1 1/4	2 3/4	5

Spare Mounting Plates, \$1.75 each.

ROPE LADDER HOOK

CAST BRONZE

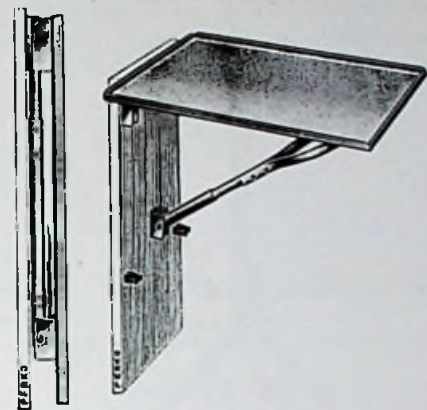


Fig. 817

Burnished Each	Chromium Plated Each	Length Overall Inches	Width Inches	For Screw No.	Packed Per Box	Weight Pounds
\$2.40	\$3.50	3	1 1/4	12	6	1/2

Standard Package, 12*

FOLDING TABLE
ALL ALUMINUM—ANODIZED



Closed

Open

Fig. 977

Just right for small cruisers, sailboats, etc. where space is limited.

Folds down against bulkhead to a space of only 2 1/2 inches. Supplied with clamps to hold in folded position.

Table top has raised edges to prevent dishes sliding off, corners are open for drainage.

Each	Length Top Inches	Width Top Inches	Weight Pounds
\$21.00	24	18	6

Standard Package 6,

TABLE BRACKETS

18-8 STAINLESS STEEL—POLISHED

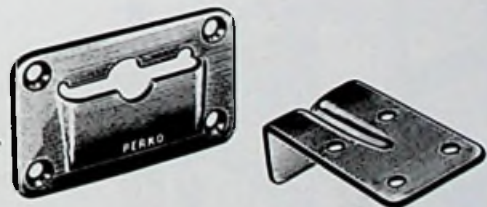


Fig. 148

For removable tables in cabin or cockpit.

A pair of angle brackets attached to table and several pairs of wall plates mounted in cabin and cockpit allows placing of table as desired.

Angle bracket cannot jump out of wall plate when table leg is firmly placed on deck.

Angle Brackets Per Pair	Wall Plates Per Pair	Dimensions Angle Bracket Inches	Dimensions Wall Plate Inches	Weight Bracket Ounces	Weight Wall Plate Ounces
\$2.60	\$2.60	2 3/4 x 1 1/8	3 3/8 x 2	3	3

Standard Package, 6 pair*



FOLDING SWIMMING LADDERS

ALUMINUM TUBING—MAHOGANY STEPS—WHITE RUBBER TRIM—RUBBER BUMPERS

“Stirrup” Type

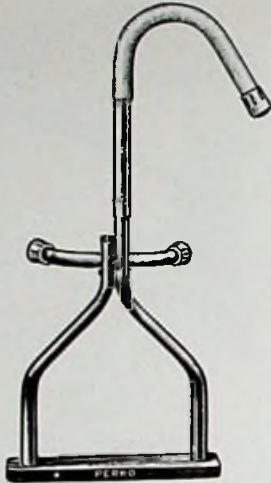
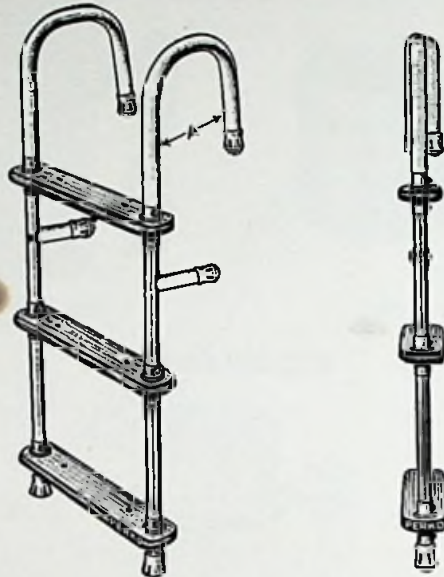


Fig. 1091

Adjustable to various lengths of 28, 31 and 35 inches.

Each	Space Inside Hook Inches	Width Overall Inches	Weight Pounds
\$9.25	6	13	2¼

“Heavy Duty” Type ANODIZED



Open for Use

Closed for Stowing

Fig. 1004

A ladder that meets every requirement for small boats, especially desirable for water skiers, aquaplaning and swimming.

The aluminum tubing is anodized and salt water resistant.

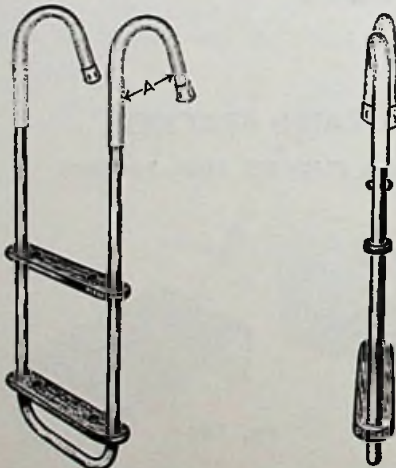
The folding feature permits stowing under deck or seats. Thickness when folded is only 3 inches.

All parts which come in contact with the boat deck or hull are covered with white rubber.

For outboard and inboard runabouts and cruisers.

No.	Each	Number of Steps	Size At “A” Inches	Length Overall Inches	Width Overall Inches	Weight Pounds
1	\$23.65	3	7	37	15½	5¾
2	25.15	3	9	37	15½	6
3	32.50	4	11	48	15½	7

Standard Type



Open for Use

Closed for Stowing

Fig. 999

For outboards, rowboats and small inboards. Folds to thickness of 3 inches for stowing.

Number of Steps	Each	Size At “A” Inches	Length Overall Inches	Width Overall Inches	Weight Pounds
1	\$11.85	6	30½	15½	3¾
2	14.20	6	30½	15½	4¼
3	17.25	6	37	15½	5

Folding FENDERS

FOR LADDER FIG. 999

MAHOGANY—WITH WHITE RUBBER BUMPERS



Fig. 1094

For attachment to ladders if required.

Complete with aluminum bolts and wing nuts.

Per Pair	Length Overall Inches	Length Bolt Inches	Weight Per Pair Ounces
\$3.15	7¾	2½	8

Standard Package, entire page, 3*



Folding BOARDING LADDERS

MAHOGANY WITH CAST BRONZE FITTINGS

Made of high quality mahogany, varnished. Supplied complete with plates for hanging and polished bronze or chromium plated fittings.

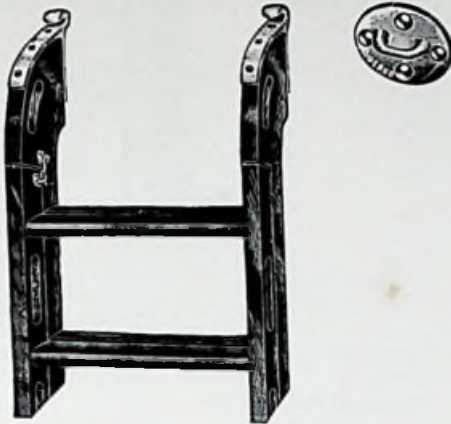


Fig. 557

NO. 1 CLOSED 2 STEPS—OPEN 4 STEPS
NO. 2 CLOSED 3 STEPS—OPEN 6 STEPS

No.	With Polished Bronze Fittings Each	With Chromium Plated Fittings Each	Overall Length Open Inches	Overall Length Closed Inches	Overall Width Inches	Weight Pounds
1	\$69.50	\$76.00	36	21½	15	9½
2	72.50	79.00	51	30	15	12½

SPARE PARTS

Hooks and Hanging Plates, See Fig. 717

Hinges, See Fig. 556

Cabin Door Hooks, See Fig. 956

ROPE LADDERS

WITH FLAT ASH STEPS,
MAHOGANY STAINED, VARNISHED
½ INCH DIAMETER MANILA ROPE

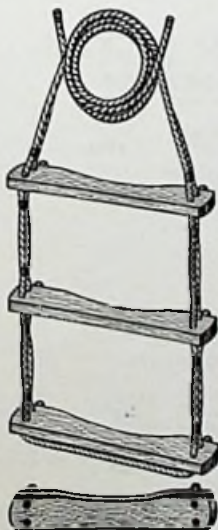


Fig. 992

Steps are 12 inches apart and each has two white rubber bumpers.

Rope has 3 foot loop above top step for hanging.

Dimensions of steps
15x3¾x¾ inches

Number of Steps	Each
2	\$11.75
3	14.00
4	17.00

Additional steps to order add \$4.75 for each.

LADDER LOCKS

FOR COMPANIONWAY OR UPPER BERTH
CAST BRONZE



Fig. 669

Height Inches	Length Socket Inches	Length Bracket Inches	Weight Per Set Ounces
1¼	1	1¾	12
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$4.75	\$6.50	\$2.90	\$4.00

Standard Package, 6 Sets*

A set consists of four pieces illustrated.

LADDER HOOKS

CAST BRONZE



Fig. 670

Extreme Length Inches	Length Brace Inches	Size Plate Inches	Weight Per Set Pounds
12	4	2½x3¼	4
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$19.50	\$25.50	\$6.00	\$8.00

Standard Package, 3 Sets*

LADDER HOOKS for Folding Boarding Ladder

CAST BRONZE

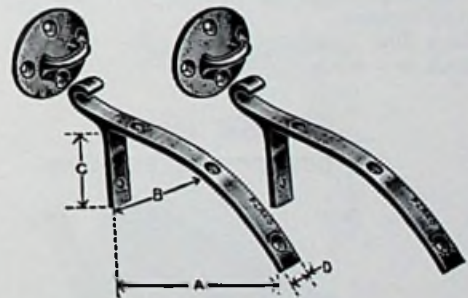


Fig. 717

Used on our Fig. 557 folding boarding ladder. Designed for wide woodwork.

A Inches	B Inches	C Inches	D Inches	Length Curved Arm Inches	Size Plate Inches	Weight Per Set Pounds
6⅞	4	2½	⅞	7	2½x3¼	2½
Complete				Plates Only		
Polished Bronze Per Set		Chromium Plated Per Set		Polished Bronze Per Pair		Chromium Plated Per Pair
\$18.50		\$23.50		\$6.00		\$8.00

Standard Package, 3 Sets*



Swivel FISHING CHAIR

MAHOGANY WITH CAST BRONZE FITTINGS
DEMOUNTABLE—WITH COVER FOR DECK FLANGE



Fig. 559

With Polished Bronze Fittings Each	With Chromium Plated Fittings Each	Height of Seat Inches	Dimensions of Seat Inches	Diam. Deck Flange Inches	Weight Pounds
\$160.00	\$175.00	18	19x22	7	45

SPARE PARTS

No.	No. Per Chair	Polished Bronze Each	Chromium Plated Each
1 Rod Socket Complete	1	\$15.75	\$19.00
2 Seat Flange, Plain	1	10.00	
3 Pedestal—2 inch pipe	1	14.00	17.00
4 Deck Flange Complete	1	16.80	19.00
5 Arm Supports	4	5.00	6.30
6 Back Rest Sockets	2	5.00	6.30
7 Back Rest Brace	1	11.25	13.75

RUBBER LINERS

FOR OUTRIGGER POLE HOLDERS



Fig. 648

Each	Length Inches	Outside Diameter Inches	Inside Diameter Inches	Weight Ounces
\$1.65	9	1 3/4 to 2	1 1/2 to 1 3/4	6 1/2

Standard Package, 12

Outrigger or FISHING POLE SOCKETS

ALL BRASS—CHROMIUM PLATED
OR ALL ALUMINUM—POLISHED

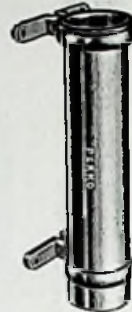


Fig. 1100

No.	Complete Each	Brackets Only Per Pair	Inside Diam. Inches	Length Overall Inches	Width Brackets Inches	Wt. Oz.
1 Aluminum	\$6.40	\$1.85	1 7/8	8 3/4	3 5/8	5 1/2
2 Brass	8.65	3.30	1 7/8	9	3	16

Standard Package 6*

Adjustable OUTRIGGER POLE HOLDERS

HEAVY BRASS TUBING
MANGANESE BRONZE CASTINGS



Fig. 475

May be adjusted quickly to any desired angle or position vertically and horizontally. Locked by large thumb bolt illustrated.

Burnished Finish Each	Chromium Plated Each	Inside Diam. Socket Inches	Length Socket Inches	Dimensions Base Inches	Weight Pounds
\$17.50	\$25.00	1 7/8	9 1/2	3 5/8 x 2 1/4	3 3/4

Standard Package, 6*

Gimbal FISHING ROD SOCKETS

ALUMINUM—BRIGHT ETCH FINISH



Fig. 481

For attaching to chairs, seats, benches, etc.

Each	Inside Diameter Inches	Length Brackets Inches	Depth Socket Inches	Weight Ounces
\$5.25	1 7/8	2 1/2	2 3/4	7

Standard Package, 6

A pair of aluminum "U" bolts for attaching above socket to tubular chairs is available. Specify Fig. 481-A \$.95 per pair.



Improved Folding HELMSMAN'S SEAT
 ALUMINUM TUBING, POLISHED ANODIZED
 VINYLITE UPHOLSTERED SEAT AND BACK
 COLORS, WHITE, RED, GRAY OR LIGHT BLUE
 BACK ADJUSTABLE TO TWO POSITIONS

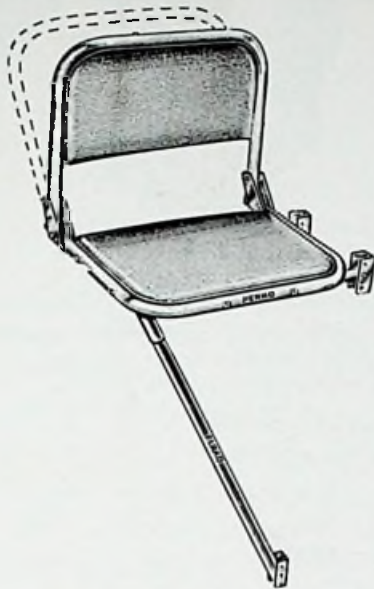


Fig. 934

An excellent seat for cruisers of all sizes. Especially appreciated by the boat owner who has spent hours at the wheel.

The seat cushion is comfortable and roomy enough for the person with wide beam.

Seat and brace folds against bulkhead compactly out of the way.

May be installed on port or starboard side.

Each	Dimensions of Seat Inches	Height of Back Inches	Weight Pounds
\$32.00	18x15	14	9½

Standard Package, 3*

Extra SEAT SUPPORTS FOR FOLDING HELMSMAN'S SEATS



Fig. 963

For attachment to Fig. 934 helmsman's seat when heavier duty or greater strength is required.

As illustrated
 Per Set — \$6.60

Standard Package, 6

Improved Swivel HELMSMAN'S SEAT
 ALUMINUM TUBING, POLISHED ANODIZED
 VINYLITE UPHOLSTERED SEAT AND BACK
 COLORS, WHITE, RED, GRAY OR LIGHT BLUE
 BACK ADJUSTABLE TO TWO POSITIONS

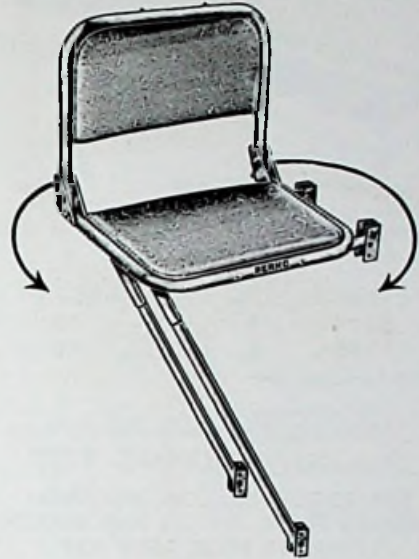


Fig. 935

The seat revolves in a 360° circle and is supported on a strong swivel, turning on stainless steel ball bearings.

The entire unit folds into a small space when use is not required.

The seat has two bulkhead brackets and two seat supports which can be easily changed over for port or starboard mounting.

Each	Dimensions of Seat Inches	Height of Back Inches	Weight Pounds
\$45.00	18x15	14	11

Standard Package, 3*

Folding STOOLS VARNISHED SEAT—CAST BRONZE BRACKET



Fig. 1009

No.	Each	Diam. Seat Inches	Projection Inches	Length Bulkhead Bracket Inches	Weight Pounds
1	\$17.75	12	12½	11	7
2	18.25	14	15	11	8

Standard Package, 6**

Folding FOOT REST
HEAVY GAUGE ALUMINUM

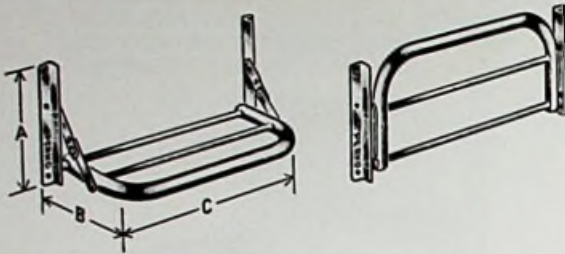


Fig. 967

Folds flat against bulkhead when not in use. Strong enough to stand on if necessary.

No.	Each	A Inches	B Inches	C Inches	Weight Pounds
1	\$9.75	8	8	12	1
2	10.95	8	8	16	1½

Standard Package, 6**

BOARDING STEP

CAST BRONZE



Fig. 351

Designed for mounting on transom, permitting easy access to or from the water or for mounting on bulkhead for climbing to the flying bridge.

All high spots are polished.

Burnished Bronze Each	Chromium Plated Each	Dimensions of Step Inches	Dimensions Mounting Bracket Inches	Weight Pounds
\$5.00	\$6.80	6x4¼	6x2	1 5/8

Standard Package, 6*

Standard FOLDING STEP
FOR COCKPIT OR COMPANIONWAY
ALUMINUM FRAME, HINGES AND BRACKETS
VARNISHED MAHOGANY STEP

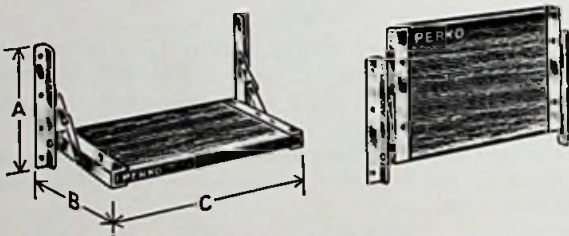


Fig. 543

Also serves as small folding table in cockpit, for ash-trays, drinks, etc.

Each	A Inches	B Inches	C Inches	Weight Pounds
\$13.80	8	9	14	3

Standard Package, 6

De Luxe FOLDING STEP
FOR COCKPIT OR COMPANIONWAY
SOLID MAHOGANY—SPAR VARNISHED
WHITE RUBBER STEP PAD



Fig. 602

Supplied complete with hinge and strong folding brackets, all brass, chromium plated.

Complete Each	Spare Folding Brackets Per Pair	Dimensions Step Inches	Thickness Step Inches	Weight Pounds
\$28.50	\$15.00	13¾x9	¾	5½

FOLDING STEP

MANGANESE BRONZE—STAINLESS STEEL SPRING



FOLDED

OPEN

Fig. 344

For mounting on hull or transom, folds up out of way when not in use. Spring holds step in position.

Chromium Plated Each	Size Step Inches	Size Base Inches	Extends Folded Inches	Weight Pounds
\$9.00	4x2	4¼x1¾	¾	1½

Standard Package, 6



PAINT SCRAPER SET

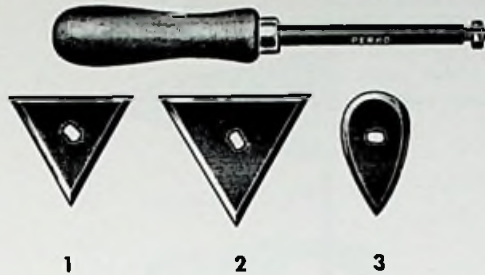


Fig. 1015

Per Set — \$3.45

Set consists of handle with 3 blades illustrated, and nut to change and attach blades.

Packed, 1 set to a box.

No. 1 Blade, Triangular—2½x2½ inches.

No. 2 Blade, Triangular—3x3 inches.

No. 3 Blade, Oval—2½x1¼ inches.

Length Handle—8½ inches.

Weight Per Set, 9 Ounces.

TRIANGULAR PAINT SCRAPERS



Fig. 626

Complete Per. Doz.	Size Blade Inches	Length Inches	Weight Per Doz. in Lbs.
\$12.00	3x3	9	6

DOUBLE END SCRAPERS

FINE GRADE TOOL STEEL
HEAT TREATED

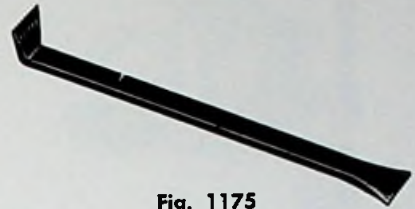


Fig. 1175

Per Dozen	Length Inches	Width Inches	Thick-ness Inches	Width Blade Inches	Weight Per Dozen Pounds
\$12.00	15	1	¼	1¾	13

MARLINE SPIKES

POLISHED STEEL
FOR WIRE ROPE

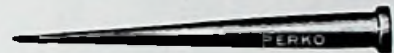


Fig. 921

Length Inches	Each	Weight Pounds
8	\$4.25	½
10	4.50	¾
12	5.00	1
14	5.50	1¼
16	6.00	2
18	7.00	2½

FOR MANILA ROPE

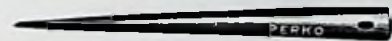


Fig. 922

Length Inches	Each	Weight Pounds
6	\$1.85	½
8	1.85	¾
10	2.00	1
12	2.50	1½
14	3.00	2
16	3.80	2½
18	5.00	3

CAULKING IRONS

MALLEABLE IRON



Fig. 307

Size No.	Per Dozen	Thickness Inches	Length Inches	Width Blade Inches	Weight Per Dozen in Lbs.
00	\$19.80	½	5	2	3½
0	19.80	⅙	5½	2½	4½
1	21.50	¼	5¼	2¼	5¼

HAND FIDS

MAPLE



Fig. 923

For use in splicing ropes and light flexible cables; has a rounded end for hand use; varnished finish.

No.	Per Dozen	Size Inches	Weight Per Dozen Pounds
0	\$12.25	12x1¼	4½
1	15.00	14x1¼	4½
2	16.00	16x2	6
3	19.00	18x2	7½
4	28.00	20x2¼	10½
5	52.00	24x3	18



Sliding Adjustable GOOSENECK CAST MAGANESE BRONZE

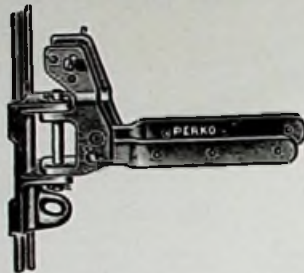


Fig. 915

Has three positions for tack of sail, two positions for boom. Ideal and universal for most small boats. Will accommodate booms up to 1 1/4 inches thick if necessary.

Burnished Each	For Track Inches	For Boom Thickness Inches	Length Inside Straps Inches	Weight Ounces
\$6.90	3/8	3/8 or 1/2	4 3/4	12

Standard Package, 6

Lightweight Sliding GOOSENECKS CAST BRONZE—BURNISHED



Fig. 916

Straps are adjustable for booms of various thickness. Track not included.

Each	For Track Inches	For Boom Thickness Inches	Length Inside Straps Inches	Weight Ounces
\$4.30	3/8	up to 1 1/2	3 1/2	8

Standard Package, 6

Anchor LIFT LEADERS GALVANIZED MALLEABLE IRON



Fig. 483

For attaching to bow of boat. The sheave projects over the stem. These are very handy for raising or dropping anchor.

Each	For Diam. Rope Inches	Size Sheave Inches	Length Overall Inches	Length Plate Inches	Weight Pounds
\$2.25	3/8	2 x 1/2	7 1/2	4 1/2	1 1/4

Standard Package, 6

WIND PENNANTS ADJUSTABLE COUNTERBALANCE ALUMINUM PENNANT—BRASS STANDARD



Fig. 435

Pennant swings on a needle point pivot and has an adjustable counterbalance should the weight of the pennant change from the application of paint or attachments of any kind.

Perfect balance and needle point bearing makes this pennant instantly responsive to the lightest of winds.

Furnished in Painted Finish, Red or Blue
For Mast 1 Inch Diam. at Top, 3/16" Role

No.	Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
1	\$5.25	6 1/2 x 3	6 1/2	2 1/2
2	5.75	9 1/2 x 4 1/2	7 3/4	4

Standard Package, 6*

WITH HORIZONTAL VANE



Fig. 837

This is the same as our popular Fig. 435 wind pennant improved by the addition of a horizontal vane attached to the regular vertical vane permitting a more distinct view when directly below the pennant. The horizontal vane is detachable if not required.

Furnished in painted finish, either red or blue.

No.	Complete Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
5	\$5.90	6 1/2 x 3	6 1/2	3
6	7.00	9 1/2 x 4 1/2	7 3/4	5

Standard Package, 6*

THRU-DECK FAIRLEADERS BRONZE



Fig. 891

Size No.	Bright Finish Each	Inside Diam. Hole Inches	Outside Diam. Flange Inches	For Screw No.	Weight Ounces	Packed Per Box
1	\$.40	3/8	1 1/4	6	3/4	12
2	.50	1/2	1 1/2	6	1 1/2	12

Standard Package, 6*



Bronze WIRE ROPE SOCKETS

CAST BRONZE—BURNISHED

Eliminating the necessity of splicing wire rigging, especially the difficult splicing of stainless steel. While lead is commonly used when socketing the wire, we recommend the use of zinc.

CLOSED TYPE



Fig. 756

No.	Each	Diam. Wire Inches	Width Inside Inches	Length Overall Inches	Weight Ounces
00	\$.85	1/8	3/8	1 3/4	1
0	.85	3/32	3/8	1 3/4	1
1	.95	1/8	3/8	1 3/4	1
2	1.10	3/16	1/2	2 1/4	2
3	1.65	1/4	3/8	2 3/4	3
4	2.00	3/8	3/4	3	4 1/2
5	2.55	3/8	1	3 3/4	8

OPEN TYPE



Fig. 757

No.	Each	Diam. Wire Inches	Jaw Opening Inches	Diam. Pin Inches	Length Overall Inches	Weight Ounces
10	1.35	3/32	1/4	1/4	1 3/4	1
11	1.35	1/8	1/4	1/4	1 3/4	1
12	1.80	3/16	3/8	3/8	2 1/4	2 1/2
14	3.00	3/8	1/2	1/2	3 3/4	5
15	3.85	3/8	3/8	3/8	3 1/2	9

BELAYING PINS

GALVANIZED MALLEABLE IRON

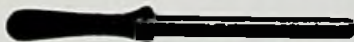


Fig. 366

Diam. Shank Inches	Galv. Each	Length Head Inches	Extreme Length Inches	Weight Each Pounds
3/8	\$1.35	3	8	3/8
1/2	2.10	3 5/8	9 1/2	3/4
5/8	2.60	3 3/4	10 1/4	1
3/4	3.10	4 1/4	11	1 3/4

Fast Eye SNAP SHACKLES

CAST BRONZE—BURNISHED



Fig. 873

No.	Each	For Diam. Rope Inches	I. D. Eye Inches	Length Inside Inches	Width Inside Inches	Wt. Ozs.
0	\$4.45	1/4	3/8	1/8	3/8	2
1	4.75	3/16-3/8	1/2	3/4	1 1/16	4
2	5.60	3/16-1/2	3/8	1 1/8	3/4	7

Swivel Eye SNAP SHACKLES

CAST BRONZE—BURNISHED



Fig. 874

No.	Each	For Diam. Rope Inches	I. D. Eye Inches	Length Inside Inches	Width Inside Inches	Wt. Ozs.
0	\$5.95	1/4	3/8	1 1/8	3/8	3
1	7.10	3/16-3/8	3/8	3/4	1 1/16	6
2	10.40	3/16-1/2	1 1/8	1 1/4	1	8

HALYARD SHACKLES

CAST MANGANESE BRONZE—BURNISHED



Fig. 887

Size Inches	Each	Diam. Pin Inches	Length Inside Inches	Width Inside Inches	Weight Ounces
1/2	\$1.70	3/8	1 3/8	3/8	2 1/2

Silent Sheet Snubbing WINCH

CAST BRONZE

NOISELESS IN OPERATION—NO SPRING
NOTHING TO GET OUT OF ORDER



Fig. 937

Diam. Top Inches	Diam. Base Inches	Height Inches	Wt. Ozs.
1 7/8	2	2 1/8	7

ANCHOR SHACKLES

GALVANIZED DROP FORGED STEEL OR BRONZE

SCREW PIN



Fig. 314

ROUND PIN



Fig. 315

Prices and Dimensions Below Apply to both Figs. 314 and 315.

Size Inches	Fig. 314 Galvanized Each	Fig. 314 Bronze Each	Fig. 315 Galvanized Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Steel Weight Per 100 in Pounds	Steel Approx. Strength in Pounds
3/16	\$.54	\$1.00		3/4	3/16	1/4	7	2700
1/4	.62	1.15	\$.59	1 1/8	3/8	3/8	12	4600
5/16	.69	1.45	.69	1 1/4	3/8	3/8	20	7000
3/8	.79	2.15	.72	1 1/2	3/8	3/8	31	8600
7/16	1.01	3.20	.91	1 3/4	3/4	1/2	47	12500
1/2	1.19	4.20	1.09	2	3/4	3/4	69	17500
5/8	1.90		1.83	2 1/2	1 1/8	3/4	137	24900
3/4	2.62		2.52	2 3/4	1 3/8	3/4	219	40000
7/8	3.41		3.36	3 1/4	1 1/2	1	319	53000
1	4.94		4.86	3 1/2	1 3/8	1 1/4	500	61000
1 1/8	7.14		7.01	4 1/8	1 3/4	1 1/4	681	81000
1 1/4	8.91		8.69	4 1/4	2	1 3/8	950	85000
1 3/8	11.06			5 1/4	2 1/8	1 1/2	1218	95000
1 1/2	14.20			6	2 1/4	1 3/4	1625	119000
1 3/4	20.27			7	2 3/4	2	2700	192500
2	30.44			8	3 3/8	2 1/4	3725	239500

Bronze Shackles are only furnished with screw pin, Fig. 314.

Galvanized 3/16 inch size supplied only with screw pin, Fig. 314.

CHAIN SHACKLES

GALVANIZED DROP FORGED STEEL

SCREW PIN



Fig. 338

ROUND PIN



Fig. 339

Size Inches	Fig. 338 Each	Fig. 339 Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds	Approx. Strength in Pounds
1/4	\$.62	\$.59	1 1/4	3/8	3/8	10	4600
5/16	.69	.69	1	3/8	3/8	18	7000
3/8	.79	.72	1 1/4	3/8	3/8	28	8600
7/16	1.01	.91	1 3/8	3/4	1/2	44	12500
1/2	1.19	1.09	1 3/4	3/4	3/4	70	17500
5/8	1.90	1.83	2	1 1/8	3/4	130	24900
3/4	2.62	2.52	2 3/8	1 1/4	3/4	212	40000
7/8	3.41	3.36	2 7/8	1 3/8	1	300	53000
1	4.94	4.86	3 1/4	1 3/4	1 1/4	470	61000



Wire Rope THIMBLES

GALVANIZED FORGED STEEL

FORGED BRONZE AND STAINLESS STEEL



Fig. 466

REGULAR

For Size Rope Inches	Galv. Per 100	Bronze Per Dozen	Stainless Steel Per Dozen	Length Overall Inches	Width Inside Inches	Galv. Wt. Per 100 in Lbs.
1/8	\$ 9.32	\$ 2.64	\$ 2.64	1 3/4	3/8	2 3/8
3/16	9.32	2.64	2.64	1 3/4	1/2	2 3/8
1/4	9.32	3.36	3.36	2	3/4	4 3/8
5/16	11.66	4.68	4.68	2 1/8	1 1/8	5 1/2
3/8	11.66	7.32	7.32	2 3/8	1 1/4	10 3/8
1/2	13.99	9.96		2 7/8	1 1/2	15 1/2
5/8	30.30	13.20		3 3/8	1 3/4	27 1/2
3/4	39.63	19.80		3 7/8	1 7/8	40
7/8	74.59			4 1/2	1 3/4	55
1	83.92			5 1/4	2 1/8	79

EXTRA LARGE

1 1/8	\$145.69			6 3/4	2 1/2	125
1 1/4	145.69			7	2 3/4	138
1 1/2	333.33			7 1/2	3	250
1 3/4	679.49			10	3 1/2	512
2	705.13			10	3 1/2	600

Sail THIMBLES

GALVANIZED MALLEABLE IRON OR BRASS



Fig. 469

*Size Inches	Galv. Each	Brass Each	Diam. Rope Inches	I. D. Hole Inches	Galv. Weight Per 100 in Lbs.
1/2		\$.12	1/8	1/4	1/4
3/4	\$.14	.17	1/4	1/2	1
1	.17	.28	3/8	3/4	2
1 1/4	.20	.42	3/8	3/4	3
1 1/2	.26	.56	3/8	1	4
1 3/4	.30	.69	1/2	1 1/4	8
2	.44	1.02	3/4	1 1/2	11 1/2
2 1/4	.48		3/4	1 3/8	16
2 3/4	.75		3/4	2	25

*Size is from edge to edge across hole.

Manila Rope THIMBLES

GALVANIZED DROP FORGED STEEL



Fig. 468

For Diam. Rope Inches	Galvanized Per 100	I. D. Hole Inches	O. D. Edge to Edge Inches	Weight Per 100 in Lbs.
3/16	\$15.38	3/8	3/8	1 1/2
1/4	15.38	1/2	3/8	2
5/16	18.99	3/8	1	3
1/2	19.70	3/4	1 1/4	5 1/2
3/4	23.43	7/8	1 1/2	9
1	27.39	1	1 3/4	17
1 1/8	36.72	1 1/8	2	25 1/2
1 1/4	45.11	1 1/4	2 1/4	34
1 1/2	56.46	1 1/2	2 1/2	38
1 3/4	73.31	1 3/4	2 3/4	48

Wire Rope CLIPS

MALLEABLE IRON SADDLE STEEL U-BOLT AND NUTS



Fig. 333

Size Wire Rope Inches	Cadmium Plated Per 100	Est. Wt. Per 100 in Lbs.	Size Wire Rope Inches	Cadmium Plated Per 100	Est. Wt. Per 100 in Lbs.
1/8	\$13.68	4 1/4	1/2	\$ 31.64	37
3/16	13.68	7	3/4	41.91	59
1/4	15.98	14 1/2	3/4	59.83	84
5/16	17.80	16	3/4	85.58	128
3/8	24.62	24	1	102.71	175



Fig. 497

EYE NUTS

WELDLESS DROP FORGED STEEL

Threaded For Bolt Inches	Galvanized Each	Inside Dimensions Inches	Diam. of Stock Inches	Weight Per 100 in Lbs.
1/4	\$.70	3/4 x 3/8	1/4	10
3/8	.70	3/4 x 3/8	1/4	10
1/2	.72	3/4 x 1 1/8	3/8	16
3/4	.77	1 1/4 x 1 1/2	3/8	34
1	.93	1 1/2 x 1 3/4	1/2	60
1 1/4	1.75	1 3/4 x 2 1/8	3/4	97



OPEN TURNBUCKLES

DROP FORGED STEEL—HOT GALVANIZED

HOOK AND EYE



Fig. 390

EYE AND EYE

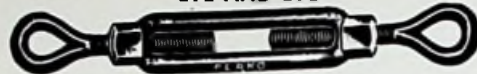


Fig. 391

HOOK AND HOOK

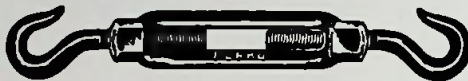


Fig. 392

JAW AND EYE



Fig. 393

JAW AND JAW



Fig. 394

Diameter and Take-up Inches	Fig. 390 Each	Fig. 391 Each	Fig. 392 Each	Fig. 393 Each	Fig. 394 Each	Overall Length Closed Inches	Opening in Hook Inches	Inside Eye Inches	Inside Jaw Inches	Approx. Weight Pounds
* 1/4 x 4	\$1.43	\$1.43	\$1.43	\$1.68	\$1.93	7 1/2	3/8	1 1/2 x 1 1/8	3/8 x 1 1/8	3/8
* 3/8 x 4 1/2	1.59	1.59	1.59	1.93	2.12	8 1/2	1/2	3/8 x 1 1/8	1/2 x 3/4	1/2
* 3/8 x 6	2.03	2.03	2.03	2.35	2.71	11	3/8	1 1/2 x 1 1/8	3/8 x 1 1/8	1
* 1/2 x 6	2.61	2.61	2.61	2.85	3.03	12	1/2	2 1/2 x 1 1/8	3/8 x 1	1 3/4
* 1/2 x 9	3.43	3.43	3.43	3.92	4.39	14 1/2		2 3/2 x 1 1/8	3/8 x 1	2 1/4
* 1/2 x 12	3.61	3.61	3.61	4.18	4.62	17 1/2		2 3/2 x 1 1/8	3/8 x 1	2 3/8
* 5/8 x 6	3.43	3.43	3.43	4.06	4.71	13	3/4	3/8 x 1 1/4	3/8 x 1 1/8	3
* 5/8 x 9	4.60	4.60	4.60	5.39	6.13	16		3/8 x 1 1/4	3/8 x 1 1/8	3 3/4
* 5/8 x 12	4.92	4.92	4.92	5.79	6.51	19		3/8 x 1 1/4	3/8 x 1 1/8	4
* 5/8 x 18		8.52		9.10	10.10	25 1/2		3/8 x 1 1/4	3/8 x 1 1/8	6 1/2
* 3/4 x 6	5.25	5.25	5.25	5.88	6.86	14	1 1/8	1 x 2 1/8	1 x 1 1/2	4 3/8
* 3/4 x 9	5.97	5.97	5.97	6.44	7.23	17		1 x 2 1/8	1 x 1 1/2	5 1/4
* 3/4 x 12	7.98	7.98	7.98	8.52	9.64	20		1 x 2 1/8	1 x 1 1/2	6 3/8
* 3/4 x 18		9.10		10.57	11.72	26 1/2		1 x 2 1/8	1 x 1 1/2	8
* 7/8 x 12	9.59	9.59	9.59	10.67	11.55	21 1/2	1 1/8	1 1/4 x 2 1/2	1 1/8 x 1 1/8	8 3/8
* 7/8 x 18		12.32		14.89	15.56	28		1 1/4 x 2 1/2	1 1/8 x 1 1/8	13 1/2
* 1 x 12	11.80	11.80	11.80	13.32	14.51	23	1 3/8	1 3/8 x 3	1 1/4 x 2	11 3/8
1 x 18		14.56		15.71	16.47	29		1 3/8 x 3	1 1/4 x 2	15 3/8
1 x 24				18.10	19.30	35		1 3/8 x 3	1 1/4 x 2	17
* 1 1/4 x 12		17.05		20.79	22.87	25		1 3/8 x 3 3/8	1 3/8 x 2	22
1 1/4 x 18		20.49		24.48	26.63	30 1/2		1 3/8 x 3 3/8	1 3/8 x 2	27 1/2
1 1/4 x 24		25.37		33.74	39.99	37		1 3/8 x 3 3/8	1 3/8 x 2	31
1 1/2 x 12					38.78	26 1/2		2 1/8 x 4 1/8	2 x 2 3/8	32 1/4
* 1 1/2 x 18					40.23	33 1/2		2 1/8 x 4 1/8	2 x 2 3/8	38 1/4
1 1/2 x 24					53.95	39 1/2		2 1/8 x 4 1/8	2 x 2 3/8	46 3/4

For one lock nut add 5% to above, for two locknuts add 10% to above.

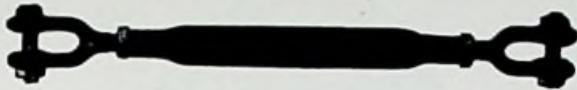
*Indicates standard marine length. Same will be shipped when no length is specified.

All turnbuckles have right and left hand threads.

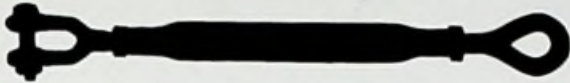
3/8 inch diameter and larger in jaw type are supplied with pin and cotter instead of bolt and nut.



Improved Pipe TURNBUCKLES GALVANIZED DROP FORGED STEEL WITH LOCK NUTS



Jaw and Jaw Fig. 382



Jaw and Eye Fig. 398

Diam. Thread Inches	Fig. 382 Jaw & Jaw Each	Fig. 398 Jaw & Eye Each	Length of Pipe Inches	Weight Per 100 in Lbs.
1/4	\$ 3.76	\$ 3.53	5 1/2	47 1/2
3/8	4.03	3.85	5 3/4	62 1/2
1/2	5.04	4.76	6	102
3/4	6.07	5.76	8	178
7/8	9.94	9.22	10 1/2	369
1	10.46	9.70	10 1/2	500
1 1/8	16.66	15.79	13	775
1 1/4	20.07	18.73	14 3/8	1025
1 1/2	31.85	29.73	16	2050

Petite TURNBUCKLES CAST BRONZE—S.A.E. THREADS



Fig. 396

No.	Burnished Each	Diam. Ends Inches	Length Extended Inches	Takeup Inches	Weight Per 100 in Lbs.
1	\$.41	1/8	3	3/4	3
2	.48	3/16	4	1 1/8	6 1/2
3	.66	1/4	5	1 1/2	11 1/2
4	.88	5/16	5 3/4	1 3/4	15
5	1.04	3/8	6 3/8	2 1/4	24 1/2

NOTE—Nos. 1, 2 and 3 have wire eyes. Nos. 4 and 5 have cast solid eyes.

Standard Package Sizes No. 1 and 2, 20*. Balance of sizes, 10*.

FOOT ROPE PLATES or TRANSOM LIFTING EYES GALVANIZED FORGED STEEL



Fig. 568

Length Under Eye Inches	Galv. Each	Size Plate Inches	Inside Diam. Eye Inches	Diam. Metal In Eye Inches	Weight Pounds
3	\$.80	3/4 x 1/2	1/2	1/4	3/8
4	1.05	7/8 x 1/2	3/4	1/4	3/8
5	1.15	1 x 1/2	3/4	3/8	1/2
6	1.55	1 x 3/4	7/8	3/8	3/4
8	1.85	1 1/4 x 3/4	1	3/8	1
10	2.75	1 1/2 x 3/4	1 1/8	3/8	1 1/2

Bronze Rigging TURNBUCKLES DROP FORGED—WELDLESS S. A. E. THREADS



Fig. 459

These are drop forged from special high strength solid bronze bars giving unusual strength as shown in table below.

Size Inches	Plain Each	With Two Check Nuts Add	For Diam. Wire Rope Inches	Weight Each Pounds
1/4	\$ 3.05	\$.40	1/8	3/8
3/8	5.25	.40	3/8	1/2
1/2	8.00	.45	1/2	3/4
3/4	10.80	.60	3/4	1 1/2
1	15.25	.65	1	2 1/2

1/4 inch size is cast manganese bronze.

Standard Package up to Size 3/8 inch, 10*.

Larger Sizes, 5*

Size Inches	Jaw Opening Inches	Diam. Pin Inches	Length Center to Center of Pins Extended Inches	Length Center to Center of Pins Closed Inches	Ultimate Strength Pounds
1/4	1/4	1/4	8 3/4	6 1/8	2300
3/8	3/8	3/8	10 3/4	7 1/4	4200
1/2	1/2	1/2	12 1/4	8 1/2	6900
3/4	3/4	3/4	14 1/2	10 1/4	11000
1	1	1	17	12	18000

BUOY RODS GALVANIZED STEEL



Fig. 166

No.	Each	Diameter Inches	Length Under Eye Inches	Weight Pounds
1	\$6.25	1/2	18	2 3/4
2	6.50	1/2	20	2 7/8
3	7.20	1/2	23	3 1/2
4	7.50	5/8	22	4 1/2
5	8.25	5/8	26	5 1/4
6	9.00	5/8	30	5 7/8

Swivels only, each \$1.70

CHAIN PLATES GALVANIZED FORGED STEEL



Fig. 569

Length Under Eye Inches	Galvanized Each	Size of Plate Inches	Weight Pounds
4	\$.85	3/4 x 3/8	1/4
6	.95	1 x 3/8	1/2
8	1.25	1 1/4 x 3/8	3/4
10	2.50	1 3/4 x 3/8	1
12	2.80	1 3/4 x 3/8	1 1/4
14	3.55	1 3/4 x 3/8	2 1/4
18	4.75	1 3/4 x 3/8	3

Screw EYE BOLTS

GALV. DROP FORGED STEEL OR BRONZE
LARGE EYE



Without Shoulder—Fig. 500
With Shoulder—Fig. 501

Size Inches	Fig. 500 Galv. Each	Fig. 501 Galv. Each	Fig. 501 Burnished Bronze Each	Inside Diam. Eye Inches	Galv. Weight Per 100 in Lbs.
1/4 x 2	\$.35	\$.35	\$.82	1/2	6
3/8 x 2 1/4	.46	.46	1.17	5/8	9
3/8 x 2 1/2	.51	.51	1.40	3/4	16
1/2 x 3 1/4	.75	.75	2.80	1	35
5/8 x 4	1.26	1.26		1 1/4	67
3/4 x 4 1/2	1.82	1.82		1 1/2	106

Sizes are diameter and length of shank.

Galvanized Screw RING BOLTS

DROP FORGED STEEL



Without Shoulder—Fig. 618
With Shoulder—Fig. 619

Size Inches	Fig. 618 Galv. Each	Fig. 619 Galv. Each	I. D. Ring Inches	Weight Per 100 in Lbs.
1/4 x 2	\$.86	\$.86	1 3/4	15
3/8 x 2 1/4	.96	.96	2	25
3/8 x 2 1/2	1.24	1.24	2	38
1/2 x 3 1/4	1.77	1.77	2 1/2	85
5/8 x 4	2.85	2.85	2 3/4	160
3/4 x 4 1/2	4.37	4.37	3	245

Nut EYE BOLTS

GALV. DROP FORGED STEEL OR BRONZE
LARGE EYE



Without Shoulder—Fig. 522
With Shoulder—Fig. 523

Size Inches	Fig. 522 Galv. Each	Fig. 523 Galv. Each	Fig. 523 Burnished Bronze Each	Inside Diam. Eye Inches	Galv. Weight Per 100 in Lbs.
1/4 x 2	\$.38	\$.38	\$.94	1/2	7
1/4 x 4	.46	.46	1.28	1/2	10
3/8 x 2 1/4	.51	.51	1.28	5/8	13
3/8 x 4 1/4	.59	.59	1.78	3/4	17
3/8 x 2 1/2	.56	.56	1.67	3/4	21
3/8 x 4 1/2	.65	.65	2.44	3/4	27
3/8 x 6	.88			3/4	32
1/2 x 3 1/4	.84	.84	3.22	1	45
1/2 x 6	1.07	1.07	4.00	1	65
1/2 x 8	1.59			1	75
1/2 x 10	1.96			1	85
5/8 x 4	1.35	1.35		1 1/4	85
5/8 x 6	1.59	1.59	5.90	1 1/4	110
5/8 x 8	2.38			1 1/4	135
5/8 x 10	2.40			1 1/4	160
5/8 x 12	2.43			1 1/4	185
3/4 x 4 1/2	1.85	1.85		1 1/2	132
3/4 x 6	2.03	2.03		1 1/2	160
3/4 x 8	3.03			1 1/2	184
3/4 x 10	3.17			1 1/2	208
3/4 x 12	3.29			1 1/2	232
3/4 x 15	3.36			1 1/2	268
7/8 x 5	2.54	2.54		1 3/4	215
7/8 x 8	3.92	3.92		1 3/4	265
7/8 x 12	4.32			1 3/4	339
1 x 6	4.43	4.43		2	340
1 x 9	4.95	4.95		2	400
1 x 12	5.76			2	463
1 x 18	6.70			2	586

Sizes are diameter and length of shank.

Special lengths and threading available if ordered in manufacturing quantities.

Bronze eye bolts are drop forged bronze, not cast.

Nut RING BOLTS

GALV. DROP FORGED STEEL OR BRONZE



Without Shoulder—Fig. 620
With Shoulder—Fig. 621

Size Inches	Fig. 620 Galv. Each	Fig. 621 Galv. Each	Fig. 621 Burnished Bronze Each	I. D. Ring Inches	Weight Per 100 in Lbs.
1/4 x 2	\$1.07	\$1.07	\$1.94	1 3/4	16
1/4 x 4	1.24	1.24		1 3/4	19
3/8 x 2 1/4	1.24	1.24	2.44	2	28
3/8 x 2 1/2	1.35	1.35		2	33
3/8 x 4 1/2	1.35	1.35	3.05	2	42
3/8 x 6	1.77	1.77		2	48
3/8 x 6	1.94			2	52
1/2 x 3 1/4	1.94	1.94		2 1/2	94
1/2 x 6	2.43	2.43		2 1/2	115
1/2 x 8	2.56			2 1/2	131
1/2 x 10	2.80			2 1/2	147
5/8 x 4	2.96	2.96		2 3/4	175
5/8 x 6	3.55	3.55		2 3/4	190
5/8 x 8	3.80			2 3/4	205
5/8 x 10	4.03			2 3/4	220
5/8 x 12	4.24			2 3/4	235
3/4 x 4 1/2	4.81	4.81		3	275
3/4 x 6	5.71	5.71		3	300
3/4 x 8	5.95			3	334
3/4 x 10	6.13			3	368
3/4 x 12	6.49			3	400
7/8 x 5	7.00	7.00		3 1/2	450
1 x 6	10.29	10.29		3 3/4	630
1 x 12	12.14			3 3/4	790



TOGGLE BOLTS CAST BRASS—PLAIN FINISH

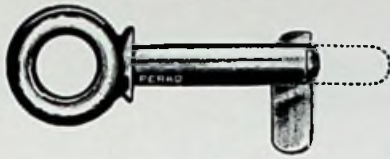


Fig. 196

Diameter Shank Inches	Length Inches	Each
1/4	1 to 6	On Application
5/16	1 to 6	
3/8	1 to 6	
1/2	1 to 6	
5/8	1 to 6	
3/4	1 to 6	

Made to order only, delivery about 3 weeks.

Not sold in quantities of less than 12 pieces of each diameter and length.

Length is measured from under shoulder to beginning of milled slot.

SWIVELS DROP FORGED STEEL



Fig. 622

Size Inches	Galv. Each	Length Inches	Width Inside Inches	Weight Each in Lbs.
1/4	\$1.50	3 3/8	3/4	1/4
3/8	1.58	4 1/8	1 1/16	3/8
1/2	1.76	5 1/4	1 3/8	3/4
5/8	2.54	6 3/8	1 1/2	1 1/4
3/4	4.30	7 1/8	1 3/4	2 1/4
7/8	5.10	8 1/8	2	3 1/2
	7.30	10 1/2	2 1/8	6 1/2

SWIVEL with Jaw End DROP FORGED STEEL



Fig. 623

Size Inches	Galv. Each	Length Inches	Width Between Jaws Inches	Inside of Bail Inches	Weight Each in Lbs.
1/4	\$1.74	4	5/8	1 1/8 x 1 1/8	3/8
3/8	1.76	4 1/8	5/8	1 1/4 x 1	1/2
1/2	1.90	5	5/8	1 3/8 x 1 1/8	3/4
5/8	2.86	6	1 1/8	1 3/4 x 1 1/8	1 3/8
3/4	4.96	7 3/8	1 1/4	1 3/4 x 1 1/4	2 3/8
7/8	6.78	8 1/2	1 1/2	2 x 1 3/8	4 1/4
	8.56	9	1 3/4	2 1/8 x 1 3/8	7 3/4

Brass WING NUTS U. S. S. THREAD



Fig. 453

For Diam. Bolt Inches	Threads Per Inch	Plain Brass Each	For Diam. Bolt Inches	Threads Per Inch	Plain Brass Each
3/8	24	\$.08	1/2	13	\$.45
1/2	20	.09	5/8	11	1.40
5/8	18	.12	3/4	10	1.40
3/4	16	.18			

Standard Package, 50*

SWIVELS

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 624

No.	Galv. Each	Burnished Bronze Each	Size Inches	I. D. Eye Inches	Inside Width Swivel Inches	Overall Length Inches	Weight Per 100 in Lbs.
0	\$.24	.56	3/8	1/4	1/4	1 1/8	2 1/4
1	.26	.56	3/8	3/8	3/8	1 3/4	4
2	.35	.77	1/2	3/8	3/8	2 1/8	7 1/2
3	.50	.98	1/2	3/8	1/2	2 1/2	10
4	.70	1.30	3/4	1/2	3/8	3 1/4	19 1/2
5	.95	1.60	3/4	3/8	3/4	3 1/2	24 1/2
6	1.18	1.95	3/4	3/4	1	4 1/4	41

Galvanized EYE BANDS STEEL—HOT GALVANIZED



Fig. 426

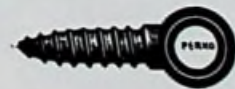
All sizes have bands 1 1/2" wide, all eyes are of 3/8" stock with 1/8" inside diameter.

Inside Diam. Inches	1 Eye Each	2 Eye Each	3 Eye Each	4 Eye Each
1 1/4	\$1.95	\$2.30	\$2.65	\$3.00
1 1/2	2.00	2.40	2.75	
1 3/4	2.30	2.65	3.00	3.40
2		2.75	3.10	3.50
2 1/4	2.55	2.85	3.20	3.55
2 1/2	2.65	3.00	3.40	3.75
3	2.85			
3 1/2	3.55	3.90	4.25	
4	3.90		4.65	
4 1/2	4.25	4.65	5.00	5.40
5	4.65	5.00	5.40	
6	6.40	6.80	7.20	7.60

Special sizes made to order, price on application.

LACING EYES

GALV. MALLEABLE IRON OR CAST BRASS



Without Shoulder
Fig. 766

Size No.	Galv. Per 100	Plain Brass Per Dozen	Pol. Brass Per Dozen
1	\$ 9.90	\$ 1.40	\$ 4.20
2	14.75	1.85	5.00
3	16.50	2.35	10.50
4	26.70	3.10	15.50

With Shoulder
Fig. 767

I. D. Eye Inches	Length Under Eye Inches	Wt. Per 100 in Lbs.
3/8	1	2 1/2
3/8	1 1/4	4 1/2
1/2	1 1/2	8
3/4	2	12



Fast Eye BOAT SNAPS GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 612

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Diam. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
0	\$.53	\$.65	\$1.50	3/8	2 1/8	6 1/4
1	.65	.80	1.70	3/8	2 3/8	12
2	.77	.95	2.00	3/8	3	13 1/2
3	.93	1.35	2.70	3/8	3 3/8	24
4	1.16	1.80		3/8	4 1/2	40
5	1.50	2.60		1 1/8	5	50
6	1.80			1 1/8	5 1/2	68 1/2

Standard Package, 10*

Swivel Eye BOAT SNAPS GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 613

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Diam. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
1	\$.93	\$1.28	\$2.30	3/8	3 1/4	12 1/2
2	1.10	1.60	2.70	1/2	3 3/8	16
3	1.40	2.20	3.50	3/4	4 3/8	30
4	1.70	2.45		1 1/8	4 3/4	42
5	2.10	3.55		1 1/8	5 1/2	61

Standard Package, 10*

Swivel Eye BOAT SNAPS ZAMAK DIE CASTINGS—CHROMIUM PLATED



Fig. 1289

Size No.	Each	Inside Diam. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
1	\$.90	3/8	2 3/8	12 1/2

Standard Package, 25

Swivel Eye SNAPS MALLEABLE IRON OR BRONZE



Fig. 659

	Each	Extreme Length Inches	Inside Eye Inches	Inside Hook Inches	Weight Ounces
Iron	\$.43	3 1/2	3/4	3/8	2
Bronze	.40	4	3/4	3/8	2 1/2

Standard Package, 10*

Iron snap is nickel plated.

Bronze snap is burnished.

BABY SNAPS

FAST EYE



Fig. 842



Fig. 1041

Fig.	Galvanized Each	Brass Each	Size of Eye Inches	Length Inches	Weight Ounces
842		\$.20	3/8	1 3/8	1/2
1041	\$.15	.20	3/8 x 3/8	1 3/8	1/2

Standard Package, 20*

SWIVEL EYE



Fig. 1042

Diam of Eye Inches	N. P. Malleable Each	Brass Each	Length Inches	Weight Ounces
3/8	\$.22	\$.25	2 3/8	1/2

Standard Package, 20*

Safety MOORING HOOKS DROP FORGED STEEL—HEAT TREATED STAINLESS STEEL SPRING AND RIVET



Fig. 606

These hooks although light in design have exceptional strength.

Safe Working Load

No. 1—750 Pounds. No. 2—1700 Pounds.

No.	Galvanized Each	I. D. of Eye Inches	Length Overall Inches	Throat Opening Inches	Weight Per 100 in Lbs.
1	\$1.05	3/4	4	3/4	25
1 1/2	1.26	1 1/8	4 3/4	3/4	32
2	2.45	1	5 3/8	1 1/8	100

Standard Package, 50****

Swivel Eye MOORING HOOKS DROP FORGED STEEL—STAINLESS STEEL SPRING



Fig. 640

An excellent hook for trailer winches.

Each	I. D. of Swivel Inches	Length Overall Inches	Throat Opening Inches	Weight Per 100 in Lbs.
\$1.80	3/8	5 1/8	1 1/8	62 1/2

Standard Package, 50****



Galvanized HOOKS
DROP FORGED STEEL—LARGE EYE



Fig. 656

Size Inches	Galv. Each	Hook Length Inches	I. D. Eye Inches	Throat Opening of Hook Inches	Approx. Strength Lbs.	Approx. Weight Per 100 in Lbs.
3/4	\$.75	2 1/4	3/4	1/2	1230	12
1 1/2	.98	3 3/8	7/8	3/8	2620	30
3/8	1.23	5 1/4	1 1/4	3/8	3810	62
3/4	1.72	5 1/2	1 1/2	1	5710	87
3/8	2.45	6 1/2	1 3/4	1 1/8	9100	135
1	3.06	6 3/4	1 7/8	1 1/8	9700	212

Screw HOOKS
STEEL—GALVANIZED

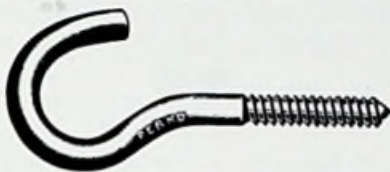


Fig. 779

Size Inches	Per 100	Length Overall Inches	Weight Per 100 Pounds
1/4	\$12.00	4	7 1/2
3/16	15.50	4	11 1/2
3/8	19.25	4	17 1/2
1/2	57.00	5 1/2	39

Standard Package, 25*

"S" HOOKS
GALVANIZED WROUGHT STEEL



Fig. 680

Nominal Size Inches	Per 100	Length Overall Inches	Weight Per 100 Pounds
3/16	\$ 7.25	1 1/2	2 1/2
1/4	7.75	2	7
3/16	15.50	2 1/2	14 1/2
3/8	23.20	3	18 3/4
1/2	55.50	3 3/4	50

Standard Package, 25*

JIB SNAPS
GALVANIZED MALLEABLE IRON



Fig. 765

Size No.	Galv. Each	Extreme Length Inches	For Diam. Stay Inches	Weight Per 100 in Lbs.
0	\$.53	1 3/8	1/4	4 3/8
1	.65	2	3/8	10
2	.77	2 3/8	3/8	12 1/2
3	1.00	2 3/4	1/2	21
4	1.30	3	3/4	23 3/4

Standard Package, 30*

Connecting or Missing LINKS
DROP FORGED STEEL
WITH INTERLOCKING LUGS



Fig. 319

Size Inches	Galv. Each	Overall Dimensions Inches	Weight Per 100 Pounds
3/16	\$.35	1 3/8 x 3/4	3 3/4
1/4	.35	1 1/2 x 1	7 1/2
3/16	.40	1 3/4 x 1 3/8	10 3/4
3/8	.46	2 1/8 x 1 3/8	18 3/4
3/16	.61	2 3/8 x 1 1/2	38 1/2
1/2	.75	2 3/8 x 1 3/4	40
3/8	1.07	3 3/8 x 2 1/4	76
3/4	1.54	3 3/8 x 2 1/2	128
3/8	2.12	4 1/2 x 3	183
1	2.59	5 x 3 3/4	272

SWING LINKS
MALLEABLE IRON—WITH BRONZE RIVETS
AND INTERLOCKING LUGS



Fig. 784

Size Inches	Galv. Per Dozen	Length Overall Inches	Diam. Eye Inches	Packed Dozens in Box	Weight Per Dozen Pounds
3/16	\$ 4.10	1 3/4	1/4	2	3 1/8
1/4	4.75	1 3/8	3/8	2	1
3/16	5.60	2 1/4	3/8	2	1 1/2
3/8	7.70	2 1/2	3/8	2	2 1/2
3/16	10.60	2 1/8	3/8	1	3 3/4
1/2	13.75	3 3/8	3/8	1	5 3/4
3/8	22.25	4 1/2	1 1/8	1/2	12

LAP LINKS
GALVANIZED WROUGHT STEEL



Fig. 785

Size Inches	Each	Inside Dimensions of Link Inches	Size Inches	Each	Inside Dimensions of Link Inches
3/16	\$.10	1 x 1/2	3/16	\$.30	1 1/8 x 1 3/8
1/4	.12	1 1/2 x 1/2	1/2	.56	2 x 1
3/16	.23	1 1/2 x 3/4			



ANCHOR CHOCKS

CAST BRONZE—BURNISHED

FOR DANFORTH ANCHORS



Fig. 933

Consists of four parts illustrated. Head of shank is held fast by slotted casting and thumb screw.

For all sizes up to 30 pounds inclusive.

Weight Per Set, 1 1/4 pounds

	Burnished Bronze	Burnished Chromium Plated
Complete, per set	\$7.50	\$8.00
Shank support only, each	3.25	3.50
Fluke supports only, per pair	2.25	2.45
Crown support only, each	2.25	2.45

**FOR DANFORTH ANCHORS
CAST MANGANESE BRONZE**

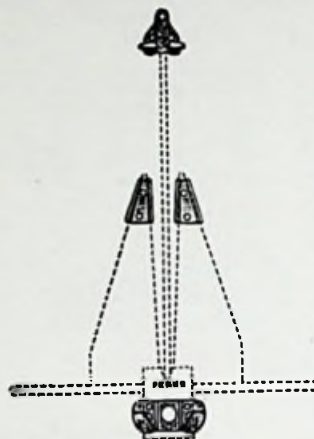


Fig. 1022

Consists of four parts illustrated. Part for shank head has integral cleat for lashing down.

	No. 0	No. 1	No. 2
Complete per set	\$8.75	\$9.50	\$12.50
Shank support only, each	3.00	3.25	4.20
Fluke supports only, per pair	3.50	4.10	5.50
Crown support only, each	3.50	4.10	5.50
For size anchor, pounds	4 and 5	8 to 28	40 to 90
Weight per set, pounds	3/4	1 1/2	2

FOR KEDGE ANCHORS

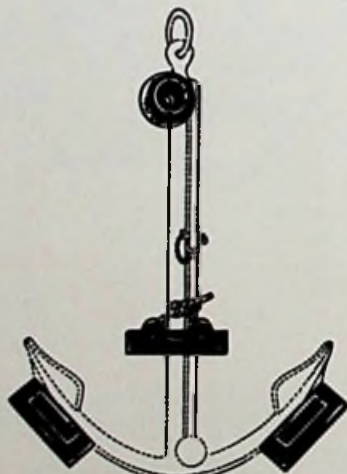


Fig. 939

Consists of four parts illustrated. The lashing piece has two eyes large enough for 3/4 inch diameter rope. For all sizes up to 75 pounds inclusive.

Weight Per Set, 2 1/2 pounds

Complete, per set	\$9.00
Shank support only, each	2.50
Lashing fitting only, each	2.50
Fluke supports only, per pair	5.00

FOR NORTHILL ANCHORS

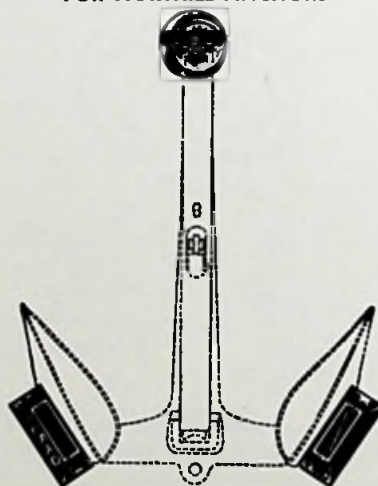


Fig. 941

Consists of three parts illustrated. Part for shank head has threaded bolt to pass through eye of shank, head is fastened down by wing nut and cross bar on bolt. For all sizes up to No. 20-R inclusive.

Weight Per Set, 2 pounds

Complete, per set	\$8.00
Shank support only, each	3.65
Fluke supports only, per pair	4.85



Non-Fouling KEDGE ANCHORS GALVANIZED DROP FORGED STEEL



Fig. 236

The result of a great deal of experimenting and testing, the flukes are designed to bite and hold on the first pull of the cable. A weldless reinforcing under each fluke will prevent bending or breaking under maximum strain.

Weight Pounds	Galvanized Each	Length Overall Inches	Width Across Flukes Inches
5	\$10.35	21	13
10	14.20	26	15 $\frac{3}{4}$
15	16.55	29	18
20	23.10	32	19
25	24.70	36	20
30	29.75	36	20
35	35.00	40	22
42	37.30	40	22
50	49.35	43	24 $\frac{1}{2}$
60	53.55	44 $\frac{1}{2}$	27 $\frac{1}{2}$
75	64.05	46	29
100	88.20	50	32
125	115.50	52 $\frac{1}{2}$	32
150	131.25	59	34 $\frac{1}{2}$

GRAPNELS GALVANIZED DROP FORGED STEEL FIVE PRONG



Fig. 207

Weight Pounds	Galvanized Each	Weight Pounds	Galvanized Each
4	\$ 8.50	15	\$18.25
7	10.50	20	24.50
10	13.00		

Larger sizes—prices on application.

FISHERMAN'S ANCHORS FOR SMALL BOATS



Fig. 1028

Weight Pounds	Self Colored Each	Galvanized Each	Diam. Inches	Height Inches
7	\$2.80	\$4.10	6	8
11	3.90	5.85	7	9
15	4.90	7.45	8	10

NORTHILL UTILITY ANCHORS HEAT TREATED DUCTILON—GALVANIZED

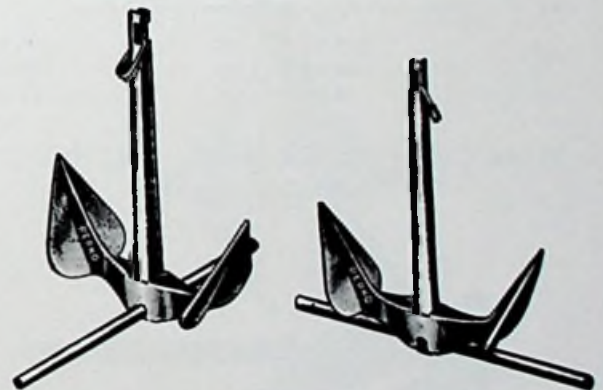


Fig. 1067

Type No.	Galv. Each	Weight Pounds	Comparative Weight Kedge Type Pounds	Comparative Weight Navy Type Pounds
Rowboat	\$ 5.10	3		
3R	13.30	5	30	50
6R	25.00	10	65	110
12R	46.50	24	130	225
20R	62.00	40	225	400
30R	83.50	59	350	610
50R	124.50	91	525	918

Note—Rowboat Anchor 12" long—10" wide.

NAVY TYPE ANCHORS DROP FORGED SHANK—GALVANIZED



Fig. 45

Weight Pounds	Each	Weight Pounds	Each
5	\$ 4.65	25	\$15.75
10	7.40	30	18.40
15	9.90	40	27.50
20	12.00	50	33.00
		60	39.50

Standard Package, entire page except Fig. 1067, 250 pounds or more****



"DANFORTH" ANCHORS
GALVANIZED STEEL

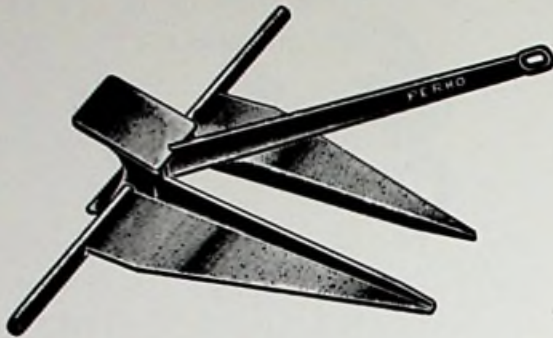


Fig. 700

Fig. 700A "STANDARD"
FLUKES FABRICATED FROM HIGH STRENGTH
ALLOY STEEL PLATE. SHANK IS DROP
FORGED STEEL

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
2½	17¼	\$ 5.40	40	40¾	\$48.50
4	19	7.80	65	50	75.00
8	24	14.80	85	51	95.00
13	28½	23.50	130	57	138.00
22	35	37.50	180	60	185.00

Larger sizes, price on application.

Fig. 700B "HIGH TENSILE"

FLUKES FABRICATED FROM ROLLED-ALLOY
STEEL SECTIONS. SHANK IS DROP FORGED
ALLOY STEEL.

Holding power equal to "Standard" anchors of about twice the weight.

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
5	21	\$18.50	28	41	\$65.00
12	28	36.00	60	50	118.00
18	35	48.00	90	51	158.00

DANFORTH "SHEARPIN" ANCHORS
FOR SMALL BOAT FISHERMEN

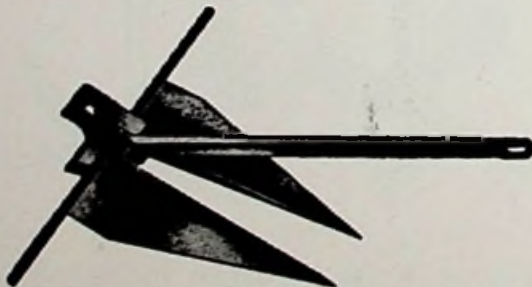


Fig. 700C

Designed to pull out backward, or crown first. Copper shearpin will allow strain of about 250 pounds at normal scope but will break at about a 30 pound pull when the boat is brought over a snagged anchor.

Weight Pounds	Each	Length Inches
4	\$ 7.80	19
8	14.80	24

Pick Up BUOYS

GALVANIZED SHEET IRON

FLAT TOP



Fig. 234

CONE TOP



Fig. 235

Pick up handle is riveted to body. Eye on bottom for rope. All double seamed and soldered.

Length shown does not include eye and handle.

Fig. 234

No.	Each	Diam. Inches	Length Inches	Weight Pounds
1	\$13.25	9	14	4
2	15.50	12	18	5

Fig. 235

No.	Each	Diam. Inches	Length Inches	Weight Pounds
0	\$ 8.80	7	11	3
1	12.25	13	22	5
2	14.50	16	24	6½

Junior MOORING BUOY
FOR RUNABOUTS AND ALL SMALL BOATS
GALVANIZED SHEET IRON



Fig. 318

Made of sheet iron with ½ inch forged steel galvanized rod through a galvanized pipe in body. Rod has eye on top and swivel on bottom. All the strain is on the rod.

Load capacity, half submerged, 25 lbs., dead weight. Equal to 35 feet of ¼ inch chain.

No.	Each	Diam. Body Inches	Length Body Inches	Weight Pounds
1	\$19.25	12	15	10

With rubber bumper around upper part of body add \$1.50 each.



Round Steel MOORING BUOY
 17" DIAM.—18 GAUGE—WELDED—GALVANIZED
 STEEL ROD THROUGH CENTER—EYE ON TOP
 SWIVEL ON BOTTOM WITH 1 1/4" DIAM. RUBBER
 BUMPER—ORANGE FINISH



Fig. 1068

Body of buoy is grooved to firmly hold rubber bumper in place. The buoy rod passes through a length of pipe and is not attached to body of buoy. All strain is on the rod. Load capacity, half submerged is 60 pounds, dead weight, equal to 75 feet of 1/4 inch chain or 32 feet of 3/8 inch chain.

No. 1 protected with one coat zinc chromate and one coat orange enamel.

No. 2 is hot dipped galvanized inside and outside after fabrication.

No.	Each	Diameter Rod Inches	Size Inside Swivel Inches	Weight Pounds
1	\$42.00	3/8	3 1/2 x 2	17
2	51.00	3/8	3 1/2 x 2	18 1/2

Hold Fast MOORING BUOY
 WITH RUBBER BUMPER
 GALVANIZED SHEET IRON



Fig. 445

A heavy gauge galvanized sheet iron body, a 3/8 inch forged rod through a galvanized pipe in the body, large eye on top, large heavy swivel on bottom, a substantial rubber bumper set in groove of body, will not mar or scratch hull of boat.

No. 1 Load Capacity, dead weight — 60 pounds
 No. 2 Load Capacity, dead weight — 100 pounds

No.	Each	Diam. Body Inches	Length Body Inches	Length Overall Inches	Inside Diam. Eye Inches	Weight Pounds
1	\$29.00	13	22	33 1/2	3	13 1/2
2	38.00	17	27	38 1/2	3	17

New "Float-Rite" MOORING BUOY
 GALVANIZED SHEET IRON
 GALVANIZED STEEL ROD THROUGH CENTER
 1 1/4" DIAMETER RUBBER BUMPER



Fig. 300

Designed to float in vertical position for better visibility and allow the bumper to serve its best purpose. All strain is on the buoy rod.

An excellent buoy for small cruisers.

Load capacity, dead weight 30 lbs.

Each	Diam. Body Inches	Length Body Inches	Length Overall Inches	Inside Diam. Eye Inches	Weight Pounds
\$22.00	12	20	30	3	11

Cone MOORING BUOY
 WITH RUBBER BUMPER
 GALVANIZED SHEET IRON

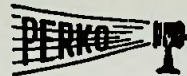


Fig. 370

Heavy galvanized iron, iron pipe running all the way through buoy, heavy galvanized 3/8 inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper which is of heavy 1 1/2 inch outside diameter rubber hose.

No.	Each	Body Size Inches	Load Capacity Dead Weight Pounds
1	\$44.00	16x24	35
2	55.00	20x30	60
3	67.00	24x36	90

Size does not include swivel or eye.



OAR LEATHERS and BUTTONS RUSSET LEATHER



Fig. 233

A high grade russet leather and button.

	Per Pair
Complete, Leathers and Buttons	\$1.50
Leathers Only—7x6½ Inches	1.25
Buttons Only—½x13 Inches . . . . .	.25

Sword Fish DARTS CAST BRONZE POINT GROUND AND SHARPENED



Fig. 805

Burnished Each	Length Inches	Weight Ounces	Packed Per Box
\$1.10	5	5	12
Standard Package, 12			

DART SHANKS IRON SHANK—CAST BRONZE SOCKET

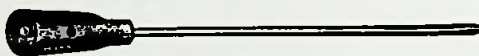


Fig. 655

Length overall, 24 inches; Weight, 1¼ pounds.

Complete Each	Shank Only Each
\$4.00	\$1.00
Standard Package, 6	

"SAV-OR" COMBINATION OAR SLEEVE AND STOP BLACK MOULDED NATURAL RUBBER

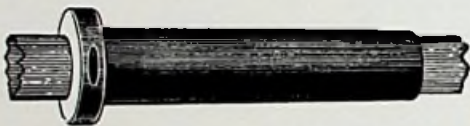


Fig. 648

An excellent item for adding years of life to a pair of oars plus noiseless operation when fishing. Also serves as a sleeve for outrigger or fishing pole socket.

Fits snugly to shape of oar yet easy to attach.

Inside diameter is tapered from 1½ inches at small end to 1¾ inches at large stop end.

Each	Length Inches	Outside Diameter Inches	Inside Diameter Inches	Weight Ounces
\$1.65	9	1¾ to 2	1½ to 1¾	6½

Standard Package, 12

Quarter Round RUBBER MOULDING BLACK



Fig. 471

Generally used as trim or moulding around cabin windows and windshields.

Size ¾ x ¾ inches
Per Foot — \$1.19

Supplied only in lengths of 25 feet.

Standard Package, 4 lengths

Sail Makers PALMS HIDE MOUNTED



Fig. 411

No.		Right Hand Per Doz.	Left Hand Per Doz.
2	Seaming—Half Hide	\$13.50	\$14.00

"Right Hand" supplied unless otherwise specified.

DRIP MOULDING WHITE SYNTHETIC RUBBER NOT EFFECTED BY SUN OR WEATHER



Fig. 192

Per Foot	Height Inches	Extension Inches	Weight Per Foot Ounces
\$.29	¾	¾	1½

Supplied only in standard lengths of 10 feet.

Standard Package, 5 lengths



Continuous HINGE
WROUGHT BRASS OR
18-8 STAINLESS STEEL

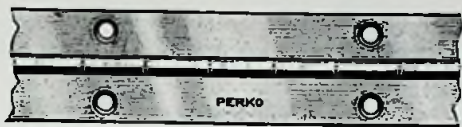


Fig. 211

For use on hatch covers, locker doors, windshields, etc. Holes are two inches apart, center to center.

No.	Width Open Inches	Length Inches	Polished Brass Each	Brass Chromium Plated Each	Polished Stainless Steel Each	Thickness Inches
1	1 1/4	60	\$3.90	\$5.15	\$7.75	.040
2	1 1/4	72	4.70	6.15	9.30	.040
3	1 1/2	60	4.25	5.70	8.65	.040
4	1 1/2	72	5.10	6.85	10.35	.040
5	2	60	5.35	7.25		.045
6	2	72	6.50	8.65		.045

1 1/4" and 1 1/2" sizes drilled for No. 5 F. H. Wood Screw. 2" size drilled for No. 6 F. H. Wood Screw. Standard Package, 10*

Flat Hatch TRIM
WROUGHT BRASS OR
18-8 STAINLESS STEEL



Fig. 243

For finishing around edges of hatch. Drilled and countersunk off center for No. 6 flat head screws.

No.	Width Inches	Length Inches	Brass Chromium Plated Each	Polished Stainless Steel Each	Thickness Inches
1	1 1/4	60	\$4.00	\$3.50	.040
2	1 1/4	72	4.50	4.20	.040
3	1 1/2	60	4.50	4.00	.040
4	1 1/2	72	5.30	4.80	.040

Standard Package, 10*

Aluminum Fender MOULDING
ANODIZED ALUMINUM—POLISHED FINISH
DRILLED FOR WOOD SCREWS, 6 INCH CENTERS



Fig. 193

Width Inches	12 Foot Lengths Each	16 Foot Lengths Each	Thickness Inches	Drilled For Screw No.	Weight Per Foot Ounces
1/2	\$2.90	\$3.85	1/8	4	1
3/8	3.20	4.25	1/4	5	1 1/4
3/4	3.50	4.65	3/2	6	1 1/2

Standard Package, 10 lengths*

Rubber FENDER MOULDING
HALF ROUND—WHITE



Fig. 158

Width Inches	Per Foot	Thickness Inches	Weight Per 100 Ft. Pounds
1	\$.29	1/2	22

Supplied only in 50 foot lengths. Standard Package, 2 lengths

Fender MOULDING
18-8 STAINLESS STEEL .045" THICKNESS
POLISHED



Fig. 110

Punched and countersunk 8 inch centers for No. 7 oval head wood screws.

6 foot length has both ends pointed.

12 foot length has one end pointed.

16 foot length has both ends pointed.

6 Foot Lengths Each	12 Foot Lengths Each	16 Foot Lengths Each	Width Outside Inches	Width Inside Inches	Weight Per Ft Ounces
\$3.95	\$7.30	\$9.95	3/4	3/4	3

Standard Package, 10 lengths*

MOULDING ENDS
CAST BRONZE—CHROMIUM PLATED



Fig. 111

For finishing cut end of moulding Fig. 110.

Each	Length Overall Inches	Length Head Inches	Width Neck Inches	Weight Ounces
\$1.50	2 3/4	1 1/4	3/4	1 1/2

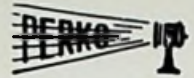
MOULDING COUPLINGS
CAST BRONZE



Fig. 38

For inside of Fig. 110 moulding at joint.

Each \$.40



CURTAIN FASTENERS

ALL BRASS—WITH BRASS SCREW



FLANGED STUD
Single Fig. 994
Double Fig. 995



SCREW STUD
Single Fig. 991
Double Fig. 998



Eyelet
Fig. 996



Washer
Fig. 997

Stud Figs. 991, 998 has brass 3/8" No. 7 wood screw.
Single Studs are used with one Fig. 996 and one Fig. 997.

Double Studs are used with two Fig. 996 and two Fig. 997.

Fig.	Nickel Plated Per 100	Chromium Plated Per 100
991	\$31.00	\$35.00
994	24.00	28.00
995	26.50	30.50
996	3.50	6.50
997	2.00	5.00
998	33.50	37.50

Standard Package, 500††

HAND PUNCH

FOR ABOVE CURTAIN FASTENERS
CAST IRON WITH STEEL CUTTERS



Fig. 284 Each \$9.00

HAND SCREW DRIVER

FOR "LIFT THE DOT" STUDS
STEEL WITH WOOD HANDLE



Fig. 290 Each \$3.05

"Lift The Dot" FASTENERS

ALL BRASS—WITH BRASS SCREW



STUD
With Wood Screw
Single Fig. 114
Double Fig. 115



STUD
For Machine Screw
Single Fig. 156



SOCKET
Single Fig. 116
Double Fig. 117



Clinch Plate
Fig. 118



Clinch Stud
Single Fig. 60
Double Fig. 61



Clinch Washer
Fig. 62



STUD
With Tapping Screw
Single Fig. 90

Stud Figs. 114, 115 has brass 1/2" No. 8 wood screw.

Stud Fig. 156 is tapped for No. 6-32 screw.

Stud Fig. 90 has steel 3/8" No. 8 self-tapping screw.

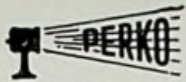
Single Studs are used with one Fig. 116 and one Fig. 118.

Double Studs are used with two Fig. 117 and two Fig. 118.

Fig.	Nickel Plated Per 100	Plated Chromium Per 100
60	\$ 6.75	\$ 9.60
61	14.25	17.50
62	2.00	4.65
90	7.50	10.50
114	17.25	20.50
115	18.75	21.75
116	9.75	13.50
117	10.00	14.00
118	2.00	5.00
156	16.50	19.50

Standard Package, 500††

Note—Price of Fig. 156 does not include machine screw, just the tapped stud only.



"Durable Dot" FASTENERS

ALL BRASS—WITH BRASS SCREW



Button
Fig. 896



Socket
Fig. 898



Eyelet
Fig. 907



STUD
With Wood Screw
Fig. 900



STUD
With Tapping Screw
Fig. 906



STUD
For Canvas
Fig. 901

Stud Fig. 900 has brass 1/2" No. 6 wood screw.

Stud Fig. 906 has steel 3/8" No. 7 self-tapping screw.

For canvas to wood, use Figs. 896, 898 and 900.

For canvas to canvas, use Figs. 896, 898, 901 and 907.

Fig.	Nickel Plated Per 100	Chromium Plated Per 100
896	\$ 3.00	\$ 6.00
898	2.25	5.25
900	7.00	10.00
901	1.30	4.25
906	5.75	8.50
907	1.25	4.25

Standard Package, 500 ††

HAND SET TOOL

FOR ABOVE BUTTONS AND EYELETS
STEEL



Fig. 905 Each \$1.70

HAND PUNCH

FOR "LIFT THE DOT" FASTENERS
CAST IRON WITH STEEL CUTTERS

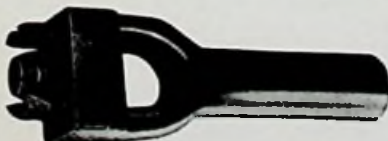


Fig. 285 Each \$4.00

CURTAIN or GROMMET HOOKS

CAST BRASS

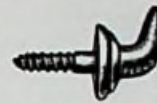


Fig. 1000

Plain Brass Per Dozen
\$2.80

Diam. Flange Inches
3/8

Length Screw Inches
1/2

GROMMET HOLE CUTTERS

FORGED STEEL



Fig. 903

No.	Each	Diam. Hole Inches	No.	Each	Diam. Hole Inches
0	\$2.40	1/4	4	\$3.00	1/2
1	2.40	5/32	5	5.25	3/4
2	3.00	11/32	6	5.25	3/4
3	3.00	3/8			

SENIOR GROMMET DIES

FORGED STEEL

Style B for inserting Spur Grommets

Style C for inserting Washer and Teeth Grommets



Fig. 902

Size No.	Style B Each	Style C Each	Weight Each Lbs.
0	\$ 6.75	\$ 6.75	1 1/4
1	7.00	7.00	1 3/8
2	7.20	7.20	1 3/4
3	7.30	7.30	1 7/8
4	8.25	8.25	2 1/4
5	9.75	9.75	2 3/4

Use a wooden mallet with above dies.

Mortise LOCK SETS CAST BRONZE

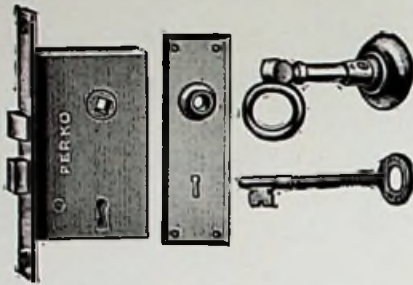


Fig. 945-A or B

Set A—With two combination escutcheons, round knob and drop handle, one key.

Set B—With two combination escutcheons and two round knobs, one key.

No.	Size Case Inches	Thickness Case Inches	Size Facing Inches	Backset Inches
1	2 $\frac{3}{8}$ x2	$\frac{1}{2}$	4 x $\frac{5}{16}$	1 $\frac{1}{2}$
2	3 x 2 $\frac{1}{4}$	$\frac{1}{2}$	4 $\frac{1}{2}$ x $\frac{1}{16}$	1 $\frac{1}{8}$

No.	Size Escutcheon Inches	Diameter Knob Inches	Size Spindle Inches	Weight Pounds
1	4 x 1 $\frac{3}{8}$	1 $\frac{1}{4}$	$\frac{3}{16}$	1 $\frac{1}{4}$
2	5 x 1 $\frac{1}{2}$	1 $\frac{3}{4}$	$\frac{3}{16}$	1 $\frac{1}{2}$

No.	Complete		Knobs Only		Escutcheons Only	
	Polished Bronze Per Set	Chrom. Plated Per Set	Polished Bronze Per Set	Chrom. Plated Per Set	Polished Bronze Each	Chrom. Plated Each
1	\$14.00	\$16.85	\$7.00	\$8.95	\$2.50	\$3.15
2	16.85	19.65	7.00	8.95	2.95	3.90

Rim LOCK SETS CAST BRONZE

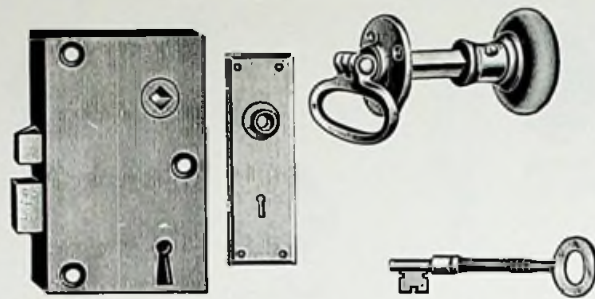


Fig. 1046-A or B

Set A—With one combination escutcheon, round knob and drop handle, one key.

Set B—With one combination escutcheon and two round knobs, one key.

No.	Size Case Inches	Thickness Case Inches	Backset Inches
1	2 $\frac{3}{8}$ x2	$\frac{1}{2}$	1 $\frac{1}{8}$
2	3 $\frac{1}{2}$ x2 $\frac{1}{4}$	$\frac{3}{8}$	1 $\frac{1}{2}$

No.	Size Escutcheon Inches	Diameter Knob Inches	Size Spindle Inches	Weight Pounds
1	4x1 $\frac{3}{8}$	1 $\frac{1}{4}$	$\frac{3}{16}$	1 $\frac{1}{8}$
2	5x1 $\frac{1}{2}$	1 $\frac{3}{4}$	$\frac{3}{16}$	1 $\frac{1}{2}$

No.	Complete		Knobs Only		Escutcheons Only	
	Polished Bronze Per Set	Chrom. Plated Per Set	Polished Bronze Per Set	Chrom. Plated Per Set	Polished Bronze Each	Chrom. Plated Each
1	\$13.40	\$16.20	\$7.00	\$8.95	\$2.50	\$3.15
2	16.20	19.00	7.00	8.95	2.95	3.90

Be sure to specify style A or B and size No. 1 or No. 2.

Extra keys for above locks furnished to order.

New Mortise LOCK SETS ALL BRASS OR STAINLESS STEEL REVERSIBLE—WITH SCREWS

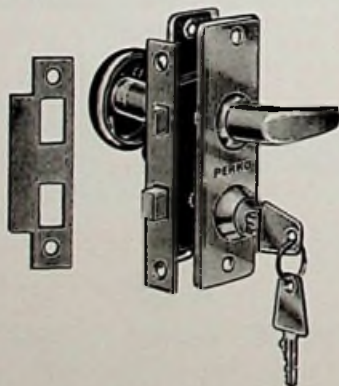


Fig. 927

Five disc tumbler type with dead bolt for inside. With round knob and lever handle, two keys.

For door $\frac{3}{8}$ to 1 $\frac{1}{8}$ inches thick. Backset 1 $\frac{1}{8}$ inches.

Brass Chromium Plated Per Set	Stainless Steel Satin Finish Per Set	Size Case Inches	Size Facing Inches	Size Escutcheon Inches	Weight Pounds
\$9.75	\$8.00	2 $\frac{1}{4}$ x1 $\frac{1}{2}$	4x $\frac{11}{16}$	4 $\frac{3}{4}$ x1 $\frac{1}{8}$	$\frac{3}{8}$

New Mortise LATCH SETS ALL BRASS—WITH SCREWS—REVERSIBLE

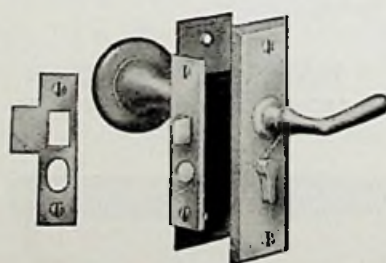


Fig. 960

Locked by dead bolt inside, no keys, with round knob and lever handle.

For door $\frac{3}{8}$ to 1 $\frac{1}{8}$ inches thick. Backset 1 $\frac{1}{8}$ inches.

Polished Brass Per Set	Chromium Plated Per Set	Size Case Inches	Size Facing Inches	Size Escutcheon Inches	Weight Pounds
\$6.75	\$8.25	2x1 $\frac{3}{4}$	3 $\frac{1}{4}$ x $\frac{11}{16}$	4x1 $\frac{3}{8}$	1



New Rim LATCH SETS

ALL BRASS—REVERSIBLE—WITH SCREWS

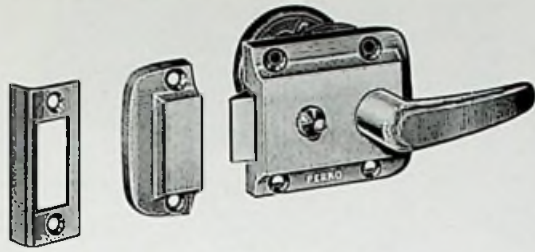


Fig. 928

With round knob and lever handle, no keys. Locked by thumb bolt inside.

Polished Brass Per Set	Chromium Plated Per Set	Size Case Inches	Diameter Escutcheon Inches	Diam. Knob inches	Weight Pounds
\$6.00	\$7.00	2¼x2	1¾	1¾	¾

Tubular LATCH SETS

ALL BRASS—FOR SMALL CABIN DOORS
POLISHED OR CHROMIUM PLATED

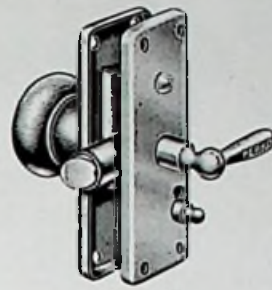


Fig. 567

Polished Brass Each	Chromium Plated Each	For Thickness Doors Inches	Size Escutcheon Inches	Size Knob Inches	Back-set Inches
\$5.75	\$7.75	¾ to 1¾	4¾x1¾	1¾	1¾

Rim LATCH SETS

CAST BRASS

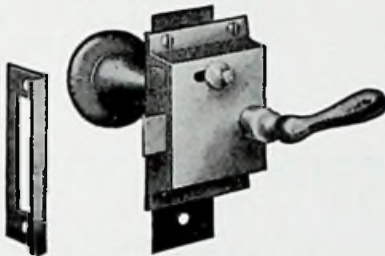


Fig. 1057

With knob and lever handle. Locked by slide stop inside, no keys. Complete with screws.

Polished Brass Per Set	Chromium Plated Per Set	Size Case Inches	Size Escutcheon Inches	Backset Inches	Door Thickness Min. Inches
\$10.00	\$13.85	3x2x¾	4x1½	1½	¾

Push-Pull LATCH SETS

DIE CASTINGS—CHROMIUM PLATED

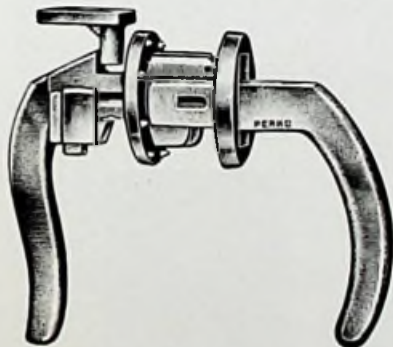


Fig. 584

Factory pre-assembled for fastest installation. Just bore a single one-inch hole. Self adjusting for various door thicknesses, minimum thickness ¾ inch.

Positive locking—stainless steel springs.

Per Set \$4.50

Standard Package, 6 Sets

Sliding Door LATCHES

CAST BRASS
HALF MORTISE—REVERSIBLE

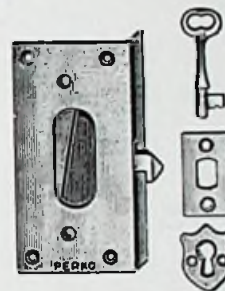


Fig. 573

Operated from inside by finger lever, from outside by key.

Complete with strike, key and shield escutcheon for keyhole.

No.	Size Case Inches	Width Face Inches	Weight Ounces
1	3½x1¾	¾	6
2	5 x3	1½	20

No.	Polished Brass Per Set	Chromium Plated Per Set
1	\$9.95	\$10.85
2	12.00	14.40

Anti-Rattle DOOR FASTENER

CAST BRASS

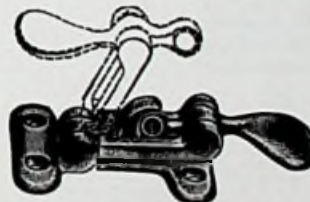


Fig. 1108

Has ¼ inch hole in lever for padlock.
Standard Package, 25*

Polished Brass Each	Chromium Plated Each
\$3.65	\$4.80

Size Base Inches	Weight Ounces
3x2	6

DOOR BUTTONS

CAST BRASS BUTTON—WROUGHT BRASS PLATE



Fig. 948

No.	Diam. Inches	Polished Brass	
		Complete Per Dozen	Without Plate Per Dz.
1	1½	\$6.25	\$2.50
2	1¾	7.65	3.00
3	2	9.00	3.60

No.	Chromium Plated	
	Complete Per Dozen	Without Plate Per Dz.
1	\$11.75	\$4.25
2	12.75	4.85
3	13.25	5.50

Standard Package, 3 Dozen*



CUPBOARD CATCHES CAST BRASS

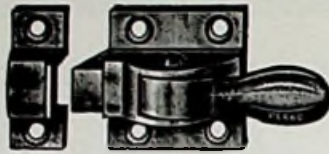


Fig. 1102

No.	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$2.25	\$2.75	1½x1½	1½
2	2.25	2.75	1½x1½	1¾

No. 2 has ¾ inch offset.

CUPBOARD BOLT CAST BRASS

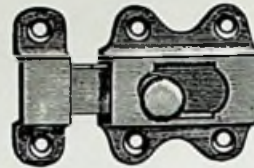


Fig. 1101

No.	Emery Finish Each	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$1.35	\$1.80	\$2.40	1¾x1¾	1½

CUPBOARD TURNS WROUGHT BRASS



Fig. 1105

Furnished complete with screws.

No.	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$2.00	\$2.60	2¼x1½	3

Flush RING CATCHES CAST BRASS

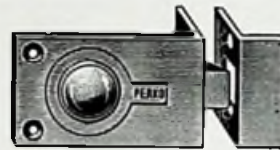


Fig. 1051

No.	Polished Brass Each	Chromium Plated Each	Size Inches	Weight Ounces
1	\$1.70	\$2.20	1½x1¼	1½

Flush RING PULLS CAST BRASS



Fig. 841

No.	Polished Brass Each	Chromium Plated Each	Size Plate Inches	Weight Ounces
1	\$.90	\$1.25	1¼x1½	1
2	1.05	1.40	1½x1¾	1½

CUPBOARD TURNS CAST BRASS

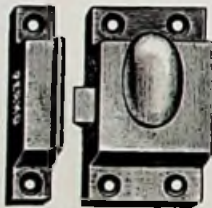


Fig. 949

No.	Emery Finish Each	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$2.00	\$2.35	\$2.90	1¾x1½	2½
2	2.15	2.70	3.25	2¼x1¾	3¾

Flush RING PULLS CAST BRASS WITH ROUND STOCK IN RING



Fig. 1103

No.	Emery Finish Each	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Ounces	No.	Polished Brass Each	Chromium Plated Each	Size Plate Inches	Weight Ounces
1	\$1.30	\$1.60	\$2.00	1½x1	1¼	1	\$1.15	\$1.70	1¼x1½	1½
2	1.45	1.80	2.20	1½x1½	2	2	1.45	2.00	1¾x2½	2¾
3	1.60	1.90	2.40	1½x1½	2¼	3	2.25	2.90	2 x2¾	3¾
4	1.65	2.00	2.50	1½x1¾	2½					



BARREL BOLTS
CAST BRASS



Fig. 947

No.	Polished Brass Each	Chromium Plated Each	Length Rod Inches	Size Base Without Strike Inches	Weight Per Dozen Pounds
1	\$1.65	\$2.15	2 1/4	2 x 1	1 1/2
2	2.10	2.85	3	3 x 1 1/8	2
3	2.40	3.40	4	3 1/2 x 1 1/4	3

FLUSH BOLTS
CAST BRASS

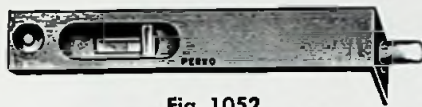


Fig. 1052

No.	Polished Brass Each	Chromium Plated Each	Size Inches	Weight Ounces
1	\$2.15	\$2.70	3/4 x 2 1/2	1 1/2
2	2.40	2.95	3/8 x 3	2

SHIP BOLTS
CAST BRASS

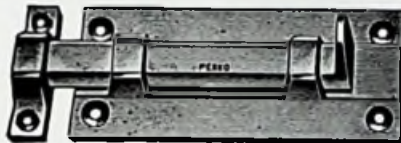


Fig. 1053

No.	Polished Brass Each	Chromium Plated Each	Size Without Strike Inches
1	\$1.40	\$1.80	2 3/8 x 1 1/8
2	1.95	2.50	3 3/8 x 1 3/8
3	2.80	3.50	4 3/4 x 1 3/8

SQUARE NECK BOLTS
CAST BRASS

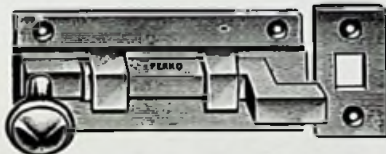


Fig. 1054

No.	Polished Brass Each	Chromium Plated Each	Size Inches
1	\$1.95	\$2.50	3 x 1 1/4
2	2.40	3.00	4 x 1 3/8

WINDOW BOLTS
CAST BRONZE
SPRING TYPE

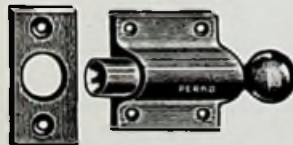


Fig. 1055

No.	Polished Bronze Each	Chromium Plated Each	Base Inches
1	\$1.80	\$2.30	1 1/4 x 1 1/4

Cabin DOOR HOOKS
CAST BRASS



Fig. 956

Lgth. Hook In.	Polished Brass Each	Chromium Plated Each	Wt. Ozs.	Lgth. Hook In.	Polished Brass Each	Chromium Plated Each	Wt. Ozs.
1 1/2	\$.85	\$1.30	1	3 1/2	\$1.20	\$1.70	2 1/2
2	.90	1.35	1 1/2	4	1.45	1.90	3
2 1/2	1.00	1.50	1 3/4	5	1.55	2.05	3 1/2
3	1.10	1.65	2	6	1.70	2.25	4

Cabin DOOR HOOKS
DOUBLE JOINTED
CAST BRASS



Fig. 957

Length Overall Inches	Polished Brass Each	Chromium Plated Each	Length Overall Inches	Polished Brass Each	Chromium Plated Each
2	\$2.05	\$2.50	4	\$2.50	\$3.10
2 1/2	2.05	2.50	5	3.50	4.20
3	2.15	2.60	6	3.65	4.50

Cabinet LATCHES
CAST BRASS

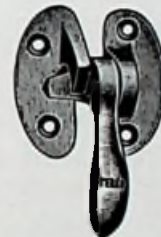


Fig. 1064

With flush striking plate and brass pin, spring closing. Made either right or left hand.

Polished Brass Each	Chromium Plated Each	Length Overall Inches	Length Lever Inches
\$1.40	\$1.68	2 1/2	2

Specify right or left hand.

Refrigerator FASTENERS
CAST BRASS



Made either right or left hand with flush striking plate. Holds door without strain on the rivet. Has brass pin.

Illustration shows right hand.

No.	Chromium Plated Each	Length Overall Inches	Size Lever Inches
1	\$4.25	5	4

Fig. 1063

Specify right or left hand.



Cupboard DOOR HOLDERS BRASS PLATED



Fig. 1178

A useful little friction catch for use on cabinets, closets, cupboards and all small doors, size overall — 1½x1¾ inches.

Per Dozen\$1.25

DOOR HOLDERS SIDE PATTERN CAST BRONZE

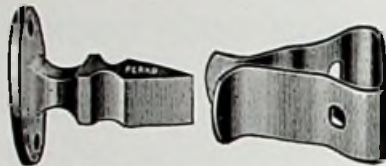


Fig. 1065

Polished Bronze Per Set	Chromium Plated Per Set	Base of Holder Inches	Base of Clip Inches	Projection Inches
\$1.90	\$2.45	1½x¾	2½x¾	2

DOOR STOPS CAST BRONZE—WITH SCREWS RUBBER TIP



Fig. 1109

Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Projection Inches	Weight Ounces
\$1.70	\$2.45	2	1⅞	4

DOOR STOP and HOLDER CAST BRASS



Fig. 574

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Projection Inches	Weight Ounces
\$4.10	\$5.00	1¾	3½	7¼

Friction CATCHES ALL BRASS—ADJUSTABLE TENSION

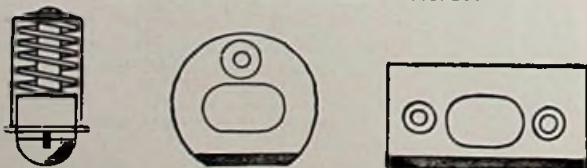


Fig. 178

Above cuts are full size. Supplied complete with either round or oblong strike. Please specify.

Per Dozen \$2.55

Security HINGED HASPS WROUGHT BRASS—14 B. & S. GAUGE



Fig. 979

A lightweight but strong hasp. Ideal for lockers, cupboards, chests, etc.

Polished Brass Each	Chromium Plated Each	Length Closed Inches	Width Inches	Weight Ounces
\$.95	\$1.20	2⅞	1	1¼

Security HINGED HASPS CAST BRONZE

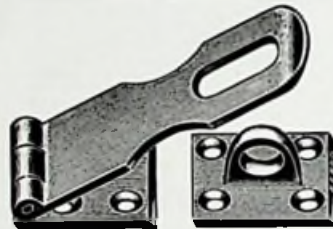


Fig. 955

Length Closed Inches	Emery Finish Each	Polished Bronze Each	Chromium Plated Each	Width Inches	Weight Ounces
2	\$1.25	\$1.50	\$2.00	1	1½
3	1.30	1.60	2.10	1	2½
3¾	1.50	1.95	2.50	1¼	4½

SAFETY HASPS EXTRA HEAVY CAST BRONZE

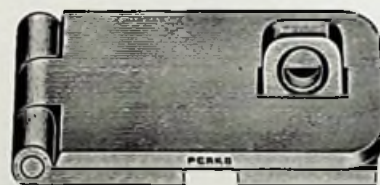


Fig. 1060

Emery Finish Each	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches	Weight Ounces
\$3.55	\$3.95	\$5.00	4½	1¾	13

Elbow CATCHES CAST BRASS



Fig. 1056

Plain Brass Each	Polished Brass Each	Chromium Plated Each	Size Base Inches	Weight Ounces
\$.70	\$1.00	\$1.40	1½x¾	1

Standard Package, 25*



Flush Hatch LIFTING RING
CAST BRASS—SAFETY TYPE



Fig. 575

No recess to catch heels, chair or table legs, etc.

No.	Polished Brass Each	Chromium Plated Each	Size Plate Inches	Inside Ring Inches	Weight Ounces
1	\$1.45	\$1.85	2½x1¼	1½	3¼
2	2.20	2.75	2¾x2¼	1¼	6

Flush Hatch LIFTING HANDLE
CAST BRONZE—SAFETY TYPE



Fig. 774

No recess to catch heels, chair or table legs, etc.

No.	Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Inside Handle Inches	Weight Ounces
1	\$3.35	\$3.75	3x2¼	1¾x1	6

Standard Package, 12*

DRAWER PULLS
CAST BRASS



Fig. 958

No.	Polished Brass Each	Chromium Plated Each	Width Overall Inches	Width Inside Inches	Weight Ounces
1	\$.60	\$.90	3¾	2½	2
2	.90	1.15	4	2¾	3

Flush DROP HANDLES
CAST BRASS

RECESSED TYPE—FOR CHESTS, HATCHES, ETC.



Fig. 1111

No.	Emery Finish Each	Polished Brass Each	Chromium Plated Each	Size Plate Inches	Width Inside Handle Inches	Weight Ounces
1	\$2.40	\$2.85	\$3.55	3 x2¼	1¾	4
2	2.50	3.00	3.80	3½x2½	2¾	6½
3		5.90	7.00	4¾x4	2¾	19

FLUSH PULLS
CAST BRASS

FOR DRAWERS, SASH OR SLIDING DOORS

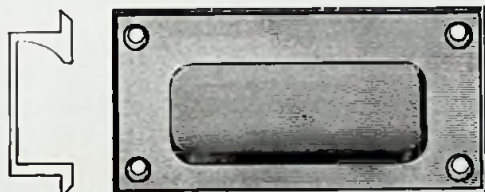


Fig. 1110

Inside recessed for finger grip as illustrated.

Polished Brass Each	Chromium Plated Each	Dimensions Inches	Mortise Depth Inches	Weight Ounces
\$1.70	\$2.20	3½x1¼	½	4

Surface DROP HANDLES
CAST BRASS
SWINGS HALF WAY ONLY

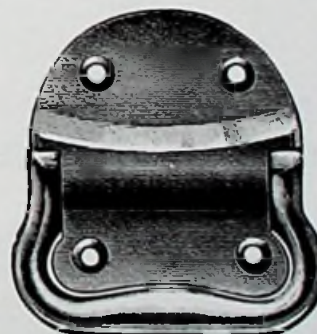


Fig. 1115

DRAWER KNOBS

BRASS—FOR DRAWERS UP TO 1⅛" THICK



Fig. 925

Polished Brass Per Dozen	Chromium Plated Per Dozen	Diameter Inches	Weight Per Dozen Ounces
\$7.60	\$10.60	1	12

No.	Emery Finish Each	Polished Brass Each	Chromium Plated Each	Dimensions Inches	Width Inside Handle Inches	Weight Ounces
1	\$1.75	\$2.25	\$2.85	2¾x2¾	2¼	4½
2	2.25	3.10	4.00	3¾x3¾	2¾	8
3	2.70	4.45	5.25	3¾x3¾	3¼	10



STRAP HINGES

GALVANIZED MALLEABLE IRON OR BRASS
BRASS PINS



Fig. 120

Length Open Inches	Galvanized Per Pair	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Weight Per Pair Pounds
4	\$1.40	\$2.40	\$3.70	\$4.75	3/8
6	2.20	3.05	5.25	6.50	3/8
8	3.15	4.25	7.00	8.75	3/8
10	3.80	6.00	9.00	11.00	1 1/8
12	5.75	8.65	11.75	14.75	1 3/8

Standard Package, Brass Only, 12 Pair*

PORT HINGES

GALVANIZED MALLEABLE IRON OR BRASS
BRASS PINS

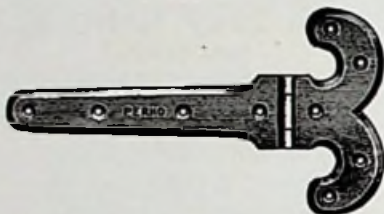


Fig. 109

Length Open Inches	Galvanized Per Pair	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Weight Per Pair Pounds
4	\$1.95	\$3.50	\$5.60	\$6.70	1/2
6	2.50	4.65	7.60	9.00	3/8
8	4.65	7.50	10.95	12.75	1 1/2
10	6.75	10.20	15.00	17.25	2
12	8.95	13.50	18.60	22.00	2 3/4

Standard Package, Brass Only, 12 Pair*

CUDDY DOOR HINGES

WROUGHT BRASS—THICKNESS .060 INCHES



Fig. 924

Polished Brass Per Doz. Pairs	Chromium Plated Per Doz. Pairs	Length Open Inches	Extreme Width Inches
\$16.00	\$21.00	2 3/4	1 3/8

CUDDY DOOR HINGES

CAST BRASS



Fig. 951

Length Open Inches	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
3	\$1.60	\$2.10	\$2.65
3 1/2	1.80	2.30	3.00
4	2.00	2.50	3.35
5	2.60	3.20	4.80

Fast Pin BUTT HINGES

CAST BRASS—BRASS PINS



Fig. 952

Size Open Inches	Emery Finish Per Dz. Pairs	Polished Chromium Plated Per Dz. Pairs	Size Open Inches	Emery Finish Per Dz. Pairs	Polished Chromium Plated Per Dz. Pairs
1 1/2 x 1 1/4	\$17.10	\$33.30	2 1/2 x 2 1/2	\$33.75	\$55.45
1 1/2 x 1 1/2	17.10	33.30	3 x 2	36.25	64.65
2 x 1 1/4	18.20	38.00	3 x 2 1/2	38.00	66.10
2 x 1 1/2	19.65	38.00	3 x 3	41.90	73.55
2 x 1 3/4	20.25	42.25	3 1/2 x 3 1/2	55.75	
2 x 2	20.85	44.10	4 x 3	63.60	
2 1/4 x 1 3/4	25.90	54.35	4 x 4	78.50	90.00
2 1/2 x 2	33.75	58.40			

Loose Pin BUTT HINGES

BRASS WITH BRASS PINS



Fig. 953

Size Open Inches	Pol. Brass Per Pair	Chromium Plated Per Pair	Size Open Inches	Pol. Brass Per Pair	Chromium Plated Per Pair
1 1/2 x 1 1/2	\$3.15	\$4.10	3 x 2	\$5.45	\$7.20
2 x 1 1/2	3.65	4.80	3 x 2 1/2	5.60	7.40
2 x 2	4.20	5.75	3 x 3	5.85	7.70
2 1/2 x 2	4.80	6.30	3 1/2 x 3 1/2		8.50
2 3/4 x 2 1/2	5.25	7.00	4 x 3	7.25	9.00
			4 x 4	7.60	9.50

Butterfly HINGES

WROUGHT BRASS—PLAIN



Fig. 1058

No.	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
1	\$.27	\$.37	\$.50
2	.45	.55	.87

No.	Length Open Inches	Width at Pin Inches	Weight Per Pair Ounces	Thickness Inches
1	2 1/4	3/4	1/2	.040
2	3 1/4	1 1/8	1 1/2	.045



SASH HINGES CAST BRONZE

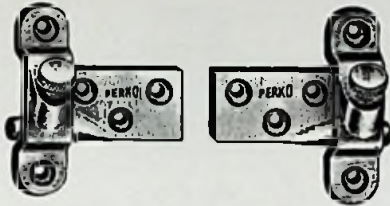


Fig. 418

A set consists of two brackets with adjusting screws and two hinge plates, right and left hand.

No.	Size of Hinge Plates Inches	Size of Bracket Base Inches	Length of Pin Inches	Weight Per Set Ounces
1	1 1/4 x 7/8	2 1/2 x 1 1/4	7/8	6
2	1 1/4 x 3/4	3 1/4 x 1 1/4	7/8	7

No.	Polished Bronze Per Set	Chromium Plated Per Set
1	\$3.00	\$4.25
2	3.50	4.75

SPRING HINGES WROUGHT BRASS—PLAIN



Fig. 1059

No.	Per Pair	Length Inches	Width Open Inches	Weight Per Pair Ounces
1	\$1.15	2 3/8	1 1/4	3
2	1.85	3	2 3/4	5

HATCH HINGES CAST BRONZE



Fig. 773

For use with flush hatch cover.

Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Weight Per Pair Pounds
\$8.75	\$11.00	3 1/4	2 1/2	1 1/4

Illustration shows one half pair.

LADDER HINGES CAST BRONZE



Fig. 556

Polished Bronze Per Pair	Chromium Plated Per Pair	Length Open Inches	Width Inches	Weight Per Pair Ounces
\$7.60	\$8.65	5 1/4	3/4	9

FLAP HINGES

WROUGHT BRASS—THICKNESS .050 INCHES



Fig. 929

Polished Brass Per Pair	Chromium Plated Per Pair	Length Open Inches	Extreme Width Inches	Weight Per Pair Ounces
\$.75	\$.95	2	7/8	1 1/4

CABINET HINGES

BRASS—POLISHED OR CHROMIUM PLATED
FLUSH OR OFFSET

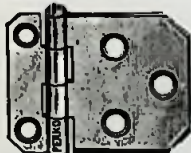


Fig. 772

Packed one dozen pairs per box, complete with screws.
Offset is 1/8 inch.

	Polished Brass Per Doz. Pairs	Chromium Plated Per Doz. Pairs	Size Open Inches	Gauge	Weight Per Pair Ounces
Offset	\$21.60	\$26.50	2 x 1 1/2	14	2
Flush	21.60	26.50	2 x 1 1/2	14	2

WARDROBE HOOKS CAST BRASS—WITH SCREWS



Fig. 635



Fig. 1106

Fig.	Chromium Plated Each	Projection Inches	Width Inches	Weight Ounces
635	\$.65	2	1 1/4	1
1106	.70	7/8	3/4	1 1/4

COAT AND HAT HOOKS CAST BRASS—WITH SCREWS



Fig. 959

	Polished Brass Each	Chromium Plated Each	Projection Inches	Width Base Inches	Weight Ounces
	\$.45	\$.65	2 1/8	1 1/8	1 1/4



HATCH SUPPORT HINGES CAST BRASS



Fig. 758

Cut shows left hand hinge.

Length Open Inches	Polished Brass Per Pair	Chromium Plated Per Pair	Drilled for Screw No.	Weight Ounces Per Pair	Packed Per Box Pairs
8	\$4.45	\$5.60	5	4	12
10	5.00	6.25	6	6	12
12	5.40	7.10	6	8	12
18	8.25	10.50	6	16	6

SASH LIFTS CAST BRONZE



Fig. 776

No.	Size of Plate Inches	Chromium Plated Each	Weight Ounces
1	1/2 x 1 1/2	\$.85	1/2
2	3/8 x 1 1/2	.90	3/4

HATCH ADJUSTERS CAST BRONZE

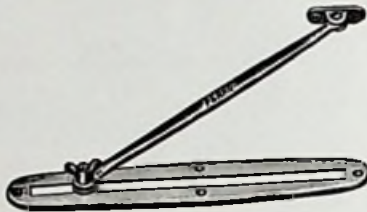


Fig. 797

Polished Bronze Each	Chromium Plated Each	Length Arm Inches	Length Adjustment Inches	Length Plate Inches	Weight Ounces
\$5.65	\$7.10	10	9 1/2	10 3/4	13

SASH ANTI RATTlers CAST BRONZE

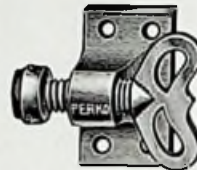


Fig. 839

Furnished with leather tip to prevent defacing of wood-work. Size of base 1 3/8" x 1".

Polished Bronze Each	Chromium Plated Each
\$2.50	\$2.90

SASH or SKYLIGHT FASTENERS CAST BRONZE



Fig. 770

Size Inches 3/4 x 4	Burnished Finish Each	Polished Bronze Each	Chromium Plated Each
	\$4.00	\$5.25	\$6.25

Standard Package, 12*

CASEMENT ADJUSTERS ALL BRASS—HEAVY PATTERN

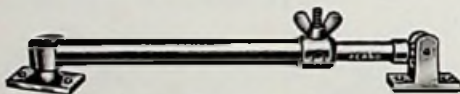


Fig. 1179

A non-slip adjuster with powerful grip to stay put in position desired.

Illustration shows swivel base on left side and swinging base on right.

Chromium Plated Each	Length Closed Inches	Length Open Inches	Diam. Outside Tube Inches	Weight Ounces
\$9.25	12	20	1/2	11

Standard Package, 12*

SASH FASTENERS LEFT OR RIGHT HAND CAST BRONZE

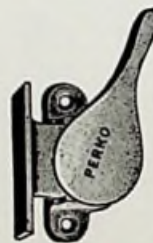


Fig. 777

Please specify left or right hand.

Polished Bronze Each	Chromium Plated Each	Size Mounting Plate Inches	Weight Ounces
\$1.35	\$1.80	1 3/4 x 1	1 1/2

CASEMENT or WINDSHIELD ADJUSTERS CAST BRASS



Fig. 1116

No.	Polished Brass Each	Chromium Plated Each	Length Inches	Diam. Rod Inches	Weight Ounces
1	\$6.25	\$6.80	8	3/8	11
2	6.35	6.90	10	3/8	12
3	6.45	7.00	12	3/8	13

Standard Package, 6*

TABLE LEG FASTENERS CAST BRASS

For fastening table leg to deck.

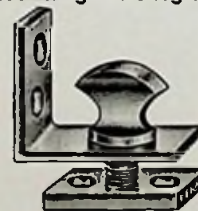


Fig. 719

Plain Brass Each	Polished Brass Each	Chromium Plated Each	Length Angle Inches	Width Angle Inches	Weight Ounces
\$2.25	\$2.75	\$3.75	1 3/4	3/8	4

Standard Package, 6*



CLOUD FORMATIONS AND SYMBOLS

1. **Cirrus, (Ci.)**—Detached clouds, delicate and fibrous looking, taking the form of feathers, generally of a white color, sometimes arranged in belts which cross a portion of the sky in great circles, and, by an effect of perspective, converging toward one or two opposite points of the horizon.
2. **Cirro-Stratus, (Ci-S.)**—A thin, whitish sheet, sometimes completely covering the sky and only giving it a whitish appearance, or at others presenting, more or less distinctly, a formation like a tangled web. This sheet often produces halos around the sun and moon.
3. **Cirro-Cumulus, (Ci-Cu.)**—Small globular masses or white flakes, having no shadows, or only very slight shadows, arranged in groups and often in lines.
4. **Alto-Cumulus, (A-Cu.)**—Rather large globular masses, white or grayish, partially shaded, arranged in groups or lines, and often so closely packed that their edges appear confused. The detached masses are generally larger and more compact at the center of the group; at the margin they form into finer flakes. They often spread themselves out in lines in one or two directions.
5. **Alto-Stratus, (A-S.)**—A thick sheet of gray or bluish color, showing a brilliant patch in the neighborhood of the sun or moon, and which, without causing halos, may give rise to coronae. This form goes through all the changes like the Cirro-Stratus, but its altitude is only half as great.
6. **Strato-Cumulus, (S-Cu.)**—Large globular masses or rolls of dark cloud, frequently covering the whole sky, especially in winter, and occasionally giving it a wavy appearance. The layer of Strato-Cumulus is not, as a rule, very thick, and patches of blue sky are often visible through the intervening spaces. All sorts of transitions between this form and the Alto-Cumulus are noticeable. It may be distinguished from Nimbus by its globular or rolled appearance and also because it does not bring rain.
7. **Nimbus, (N.)**—Rain clouds; a thick layer of dark clouds, without shape and with ragged edges, from which continued rain or snow generally falls. Through the openings of these clouds an upper layer of Cirro-Stratus or Alto-Stratus may almost invariably be seen. If the layer of Nimbus separates into shreds or if small loose clouds are visible floating at a low level underneath a large Nimbus, they may be described as Fracto-Nimbus (Fr.-N.), the "scud" of sailors.
8. **Cumulus, (Cu.)**—Woolpack clouds; thick clouds of which the upper surface is domeshaped and exhibits protuberances, while the base is horizontal. When these clouds are opposite the sun the surfaces usually presented to the observer have a greater brilliance than the margins of the protuberances. When the light falls aslant, they give deep shadows; when, on the contrary, the clouds are on the same side as the sun, they appear dark with bright edges. The true Cumulus has clear superior and inferior limits. It is often broken up by strong winds, and the detached portions undergo continual changes. These may be distinguished by the name of Fracto-Cumulus (Fr.-Cu.).
9. **Cumulo-Nimbus, (Cu-N.)**—The thunder-cloud or shower-cloud; heavy masses of clouds rising in the form of mountains, turrets, or anvils, generally having a sheet or screen of fibrous appearance above, and a mass of clouds similar to Nimbus underneath. From the base there usually fall local showers of rain or of snow (occasionally hail or soft hail).
10. **Stratus, (S.)**—A horizontal sheet of lifted fog; when this sheet is broken up into irregular shreds by the wind or by the summits of mountains, it may be distinguished by the name of Fracto-Stratus (Fr.-S.).
11. **Fracto-Stratus, (Fr.-S.)**—A horizontal sheet of lifted fog broken into irregular shreds by wind or the summits of mountains.
12. **Fracto-Cumulus, (Fr.-Cu.)**—Cumulus, when broken up by strong winds, undergo continual changes. These are distinguished by the name of Fracto-Cumulus (Fr.-Cu.).

RULES OF THE ROAD

- A power boat gives way to a sail boat except when being overtaken.
- Power boats meeting head on pass portside to portside, unless signaled otherwise.
- Any vessel being overtaken by another has the right of way.
- Any vessel having right of way shall hold her course and speed, unless such action would cause a collision.
- The danger zone is from dead ahead to two points abaft the starboard beam.
- Any power boat having another in its danger zone shall give way to the other and shall, if necessary, alter course, slacken speed, stop or reverse.
- A vessel (under 65 ft.) using both sail and power, acts as a power boat by day, but as a sail boat by night.
- A sail boat running free gives way to the one close hauled.
- A sail boat running free with the wind on the port, gives way to one running free with the wind on the starboard.
- A sail boat close hauled with wind on the port, gives way to one close hauled with wind on the starboard.
- When two sail boats are running alike, the one to the windward gives way.

WHISTLE SIGNALS FOR POWER BOATS

- A vessel's rights cannot be altered by whistle signals, the one which whistles first gains no rights over another, cross signals are unlawful.
- If the signal is correct for the circumstances, answer it, if it is not give the danger signal, stop, and come to an understanding.
- 1—Short blast—I wish to leave you on my port.
 - 2—Short blasts—I wish to leave you on my starboard.
 - 3—Short blasts—My engines are going astern. I am doing my best to stop.
 - 4—Short blasts—Danger, stop, your signals are not clear or are not satisfactory to me.
 - 4—Long blasts—Raise the bridge.
- Whistle signals are never given to or by a sail boat.

FOG SIGNALS FOR POWER BOATS

- 1—Long blast— I am under way.
- 1—Long and 2 Short blasts—I am towing something.

FOG HORN SIGNALS FOR SAIL BOATS

- 1—Short blast—I am on the starboard tack.
- 2—Short blasts—I am on the port tack.
- 3—Short blasts—I am running free.
- 1—Long and 2—Short blasts—I am being towed (any vessel).
- Rapid bell—I am at anchor (any vessel).



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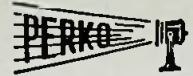


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