



FlushProTM Valve and Winterizing Kit

FlushPro™ Marine Engine Flushing and Winterizing Valve - Flush your boat engine safely and easily Freshwater Flushing of Your Inboard is as Simple as Connecting a Garden Hose

Material: Polycarbonate, with Stainless Steel Spring

Finish: Clear

For Hose Sizes: 5/8", 1" or 1-1/4"

Features: • Transparent body allows for visual inspection of water flow

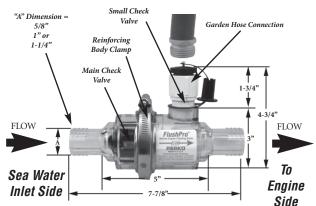
 Durable check valve system activated by water pressure from a garden hose

 Check valve automatically shuts off hull intake when water pressure is applied

 Adapter supplied with FlushPro[™] makes winterizing your hoat easy

· Can be used with onboard generators

Finish Valve Valve Valve	Hose Size "A" Dimension 5/8 1 1-1/4	Retail Pkg. 0456DP4 0456DP6 0456DP7	OEM Bulk Pkg. 0456004 0456006 0456007
Valve & Kit	1	0457DP4	0457004
Valve & Kit		0457DP6	0457006
Valve & Kit		0457DP7	0457007



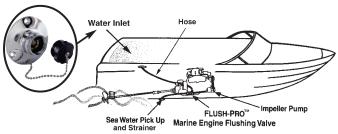
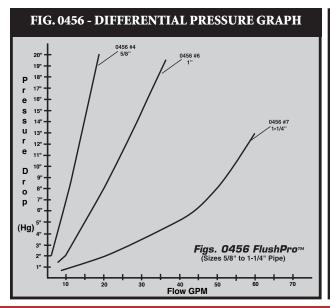




Fig. 0456









Intake Water Strainers

Flushing Strainer

Freshwater flushes your inboard or generator simply and easily

Material: Cast Bronze, Stainless Steel Basket and

Clear Polycarbonate Cylinder

For Pipe Sizes:

1/2" to 1-1/4" NPT

Uses:

For Flushing, Winterizing and acts as an

Emergency Bilge Pump

Features:

- · Handle Indicates Flow Direction
- Top Casting Removes Easily for Basket Cleaning
- Reversible Bulkhead Mounting Option
- Smooth Acting, Low Torque Ball Valve
- Internal Cam Seals Fresh Water Intake During Normal (Through Strainer) Operation
- Uses Standard Perko Strainer Replacement Parts (Gaskets, Cylinders, Nuts, and Tie Rods)
- Designed for easy installation and cleaning
- Mounting lugs cast into both sides to assure universal mounting
- Four outside tie rods
- · Stainless steel strainer basket minimizes electrolysis
- 0.079" Screen hole diameter provides 47% open area, among the highest in the industry for cylindrical strainer baskets.
- Hinged lugs on cover permit easy removal and cleaning of the strainer basket
- A drain plug in the bottom casting for easily removing sediment and draining for winterizing





Fig. 0593



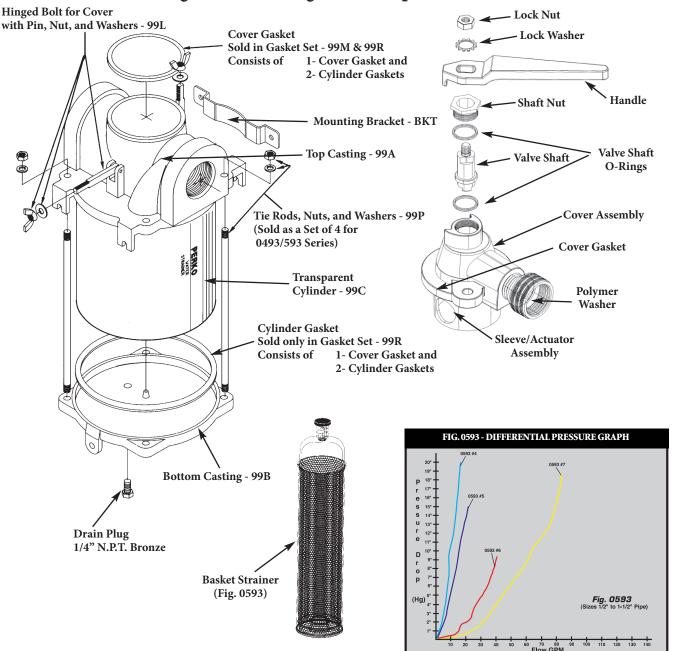
Pipe Size	Height Overall	Width Overall	Standard Pkg.	Dimensions Cylinder	Dimensions Basket	Open Area To Pipe Size Ratio	Spare Gasket Kit* Retail Pkg.
1/2"	5-3/4"	4-1/2"	0593004PLB	3-1/2" x 4"	1-13/16" x 4-1/16"	30:1	0493DP599R
3/4"	8-3/8"	4-1/2"	0593005PLB	3-1/2" x 6"	1-13/16" x 6-1/4"	25:1	0493DP599R
1"	9-1/2"	5-1/2"	0593006PLB	4-1/2" x 5-1/2"	2-5/8" x 5-7/8"	20:1	0493DP799R
1-1/4"	10"	5-1/2"	0593007PLB	4-1/2" x 6"	2-5/8" x 6-1/4"	13:1	0493DP799R

^{*}Spare Gasket Kit Consists of: 1 Cover Gasket and 2 Cylinder Gaskets





Fig. 0593 Flushing Strainer Spare Parts



	Spare Part	Sample			Spare Part	Sample	
Description	Code	Part Number	Package	Description	Code	Part Number	Package
Handle (Fig. 0805)	99D	080500 <u>5</u> 99D**	Boxed	Cover Assy.	99C	059300 <u>4</u> 99C	Boxed
Valve Shaft	99A	059300 <u>4</u> 99A	Boxed	Basket Strainer	99D	059300 <u>4</u> 99D	Boxed
Sleeve Assv.	99B	059300499B	Boxed				

^{**} For Complete Handle Part Numbers See Fig. 0805 on page 98.

Intake Water Strainer & Flushing Strainer Common Spare Parts Ordering Information

For Spare Part No. Insert a Spare Part Code Listed Below in Place of the "PLB" in the Strainer's Catalog Number (i.e., 049300699A, Top Casting for 1" (#6) Strainer).

Description Top Casting	Spare Part Code 99A	Sample Part Number 049300499A	Package Boxed	Spare Part Description Rubber Gasket Kit Consists of:	Sample Code	Part Number	Package
Bottom Casting Transparent Cylinder	99B 99C	049300499B 049300499C	Boxed Boxed	1- Cover Gasket and 2- Rubber Cylinder Gaskets	99R*	0493DP599R	Bag
Cover with Gasket Cork Cover Gasket Kit (Set of 2)	99E 99N	049300499E 0493DP599N	Boxed Bag	Tie Rods, Nuts, and Washers Consists of (4 Each for 0493 Series)	99P	0493DP499P	Bag





Clear Body Intake Water Strainer

Lightweight Intake Water Strainer with Clear Body

Material: Cast Bronze with Clear Polycarbonate Body

and Stainless Steel Basket

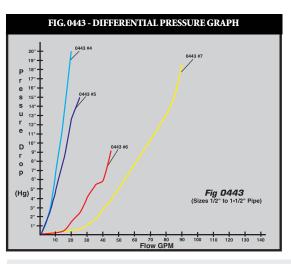
For Pipe Sizes: Features:

1/2" to 1-1/4" NPT

- Many Replacement Parts in Common with Other Perko Strainers (Fig. 0493)
- Our Lightest Weight Strainer Series
- Designed for easy installation and cleaning
- Mounting lugs cast into both sides to assure universal mounting
- Stainless steel strainer basket minimizes electrolysis
- 0.079" Screen hole diameter provides 47% open area, among the highest in the industry for cylindrical strainer baskets
- Hinged lugs on cover permit easy removal and cleaning of the strainer basket
- A drain plug in the bottom casting for easily removing sediment and draining for winterizing



Fig. 0443





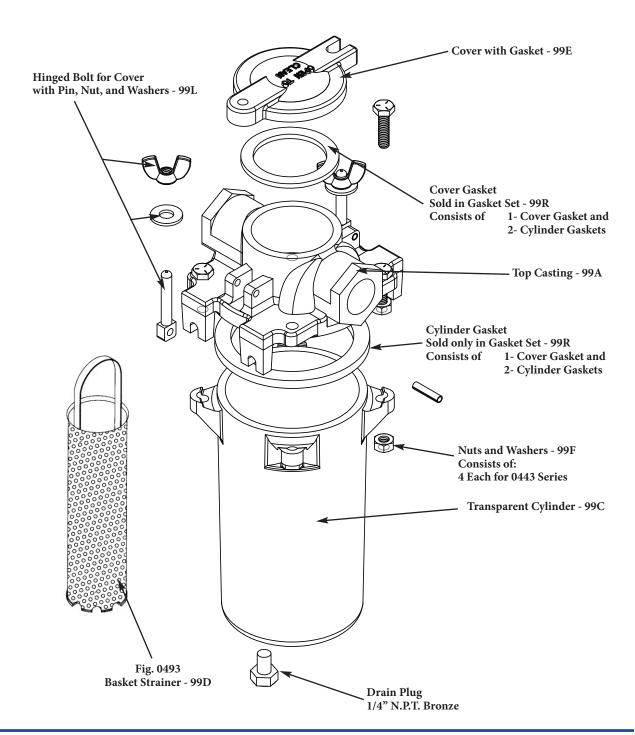
Pipe Size	Standard Pkg.	Height Overall	Width Overall	Dimensions Cylinder (O.D. x L)	Dimensions Basket	Open Area To Pipe Size Ratio	Spare Gasket Kit* Retail Pkg.
1/2"	0443004PLB	6-1/4"	4-1/2"	3-1/2" x 4-1/4"	1-13/16" x 4-1/16"	30:1	0443DP599R
3/4"	0443005PLB	8-5/8"	4-1/2"	3-1/2" x 6-5/8"	1-13/16" x 6-1/4"	25:1	0443DP599R
1"	0443006PLB	8-3/4"	5-1/2"	4-1/2" x 6"	2-5/8" x 5-7/8"	20:1	0443DP799R
1-1/4"	0443007PLB	9-5/16"	5-1/2"	4-1/2" x 6-9/16"	2-5/8" x 6-1/4"	13:1	0443DP799R

^{*}Spare Gasket Kit Consists of: 1 Cover Gasket and 2 Cylinder Gaskets





Fig. 0443 Clear Body Intake Water Strainer Spare Parts



Spare Parts Ordering Information

For Spare Part No. Insert a Spare Part Code Listed Below in Place of the "PLB" in the Strainer's Catalog Number (i.e., 049300699A, Top Casting for 1" (#6) Strainer).

	Spare Part			
Description	Code	Part Number	Package	Description
Top Casting	99A	049300499A	Boxed	Hinged Bolt for Cover
Transparent Cylinder Body	99C	044300499C	Boxed	With Pin, Nut, and Washer Rubber Gasket Kit Consist
Basket Strainer	99D	049300499D	Boxed	1- Cover Gasket and
Cover with Gasket	99E	049300499E	Boxed	2- Rubber Cylinder Gasket Nuts and Washers Consist 4 Fach for 0443 Series

Description	Spare Part Code	Sample Part Number	Package
Hinged Bolt for Cover With Pin, Nut, and Washer Rubber Gasket Kit Consists of:	99L	0493DP599L	Bag
1- Cover Gasket and 2- Rubber Cylinder Gaskets Nuts and Washers Consists of:	99R*	0493DP599R	Bag
4 Each for 0443 Series	99F	0443DP499F	Bag





Intake Water Strainers

Intake Water Strainers

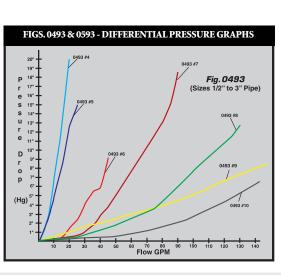
Material: Cast Bronze, 316 Stainless Steel Basket and

Clear Polycarbonate Cylinder

For Pipe Sizes: 1/2" to 2-1/2" NPT

Features:

- Designed for easy installation and cleaning
- Mounting lugs cast into both sides to assure universal mounting
- Four outside tie rods
- Stainless steel strainer basket minimizes electrolysis
- 0.079" Screen hole diameter provides 47% open area, among the highest in the industry for cylindrical strainer baskets
- Hinged lugs on cover permit easy removal and cleaning of the strainer basket
- A drain plug in the bottom casting for easily removing sediment and draining for winterizing





858E

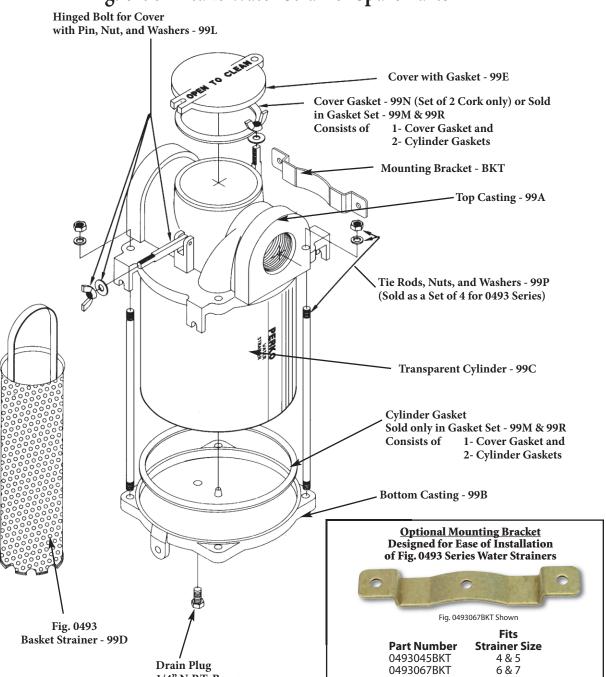
Pipe Size	Height Overall	Width Overall	Standard Pkg.	Dimensions Cylinder	Dimensions Basket	Open Area To Pipe Size Ratio	Spare Gasket Kit* Retail Pkg.
1/2"	5-3/4"	4-1/2"	0493004PLB	3-1/2 x 4"	1-13/16" x 4-1/16"	30:1	0493DP599M (or) 99R
3/4"	8-3/8"	4-1/2"	0493005PLB	3-1/2 x 6"	1-13/16" x 6-1/4"	25:1	0493DP599M (or) 99R
1"	9-1/2"	5-1/2"	0493006PLB	4-1/2 x 5-1/2"	2-5/8" x 5-7/8"	20:1	0493DP799M (or) 99R
1-1/4"	10"	5-1/2"	0493007PLB	4-1/2 x 6"	2-5/8" x 6-1/4"	13:1	0493DP799M (or) 99R
1-1/2"	11-1/2"	7-1/4"	0493008PLB	6 x 8"	3-5/16" x 8-7/16"	17:1	0493DP999M (or) 99R
2"	16"	7-1/2"	0493009PLB	6 x 12"	3-5/16" x 12-1/4"	13:1	0493DP999M (or) 99R
2-1/2"	16"	7-1/2"	0493010PLB	6 x 12"	3-5/16" x 12-1/2"	10:1	0493DP999M (or) 99R

^{*}Spare Gasket Kit Consists of: 1 Cover Gasket and 2 Cylinder Gaskets





Fig. 0493 Intake Water Strainer Spare Parts



Spare Parts Ordering Information

0493089BKT

8 & 9

1/4" N.P.T. Bronze

For Spare Part No. Insert a Spare Part Code Listed Below in Place of the "PLB" in the Strainer's Catalog Number (i.e., 049300699A, Top Casting for 1" (#6) Strainer).

Description	Spare Part Code	Sample Part Number	Package	Description	Spare Part Code	Sample Part Number	Package
Top Casting	99A	049300499A	Boxed	Cork Gasket Kit Consists of:			
Bottom Casting	99B	049300499B	Boxed	1- Cover Gasket and			
Transparent Cylinder	99C	049300499C	Boxed	2- Cork Cylinder Gaskets	99M*	0493DP599M	Bag
Basket Strainer	99D	049300499D	Boxed	Rubber Gasket Kit Consists of:			
Cover with Gasket Hinged Bolt for Cover	99E	049300499E	Boxed	1- Cover Gasket and 2- Rubber Cylinder Gaskets Tie Rods. Nuts. and Washers	99R*	0493DP599R	Bag
With Pin, Nut and Washer	99L	0493DP599L	Bag	Consists of (4 Each for 0493 Series) 99P	0493DP499P	Bag
Cork Cover Gasket Kit (Set of 2)	99N	0493DP599N	Bag	1			3

^{*} Note: Older model strainers utilizing cork cylinder gaskets must order 99M Cork Gasket Kit and newer model strainers must order 99R Rubber Gasket Kit.





Higher Capacity Intake Water Strainer

Intake Water Strainers

Material: Cast Bronze, Stainless Steel Basket and

Clear Polycarbonate Cylinder

For Pipe Sizes: 2", 2-1/2", and 3" NPT

Use: For Applications requiring Higher Capacity

Features: • Designed for easy installation and cleaning

Mounting lugs cast into both sides to

assure universal mountingFour outside tie rods

 Stainless steel strainer basket minimizes electrolysis

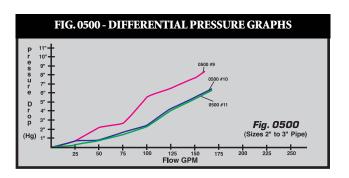
• 0.079" Screen hole diameter provides 47% open area, among the highest in the industry for cylindrical strainer baskets.

 Hinged lugs on cover permit easy removal and cleaning of the strainer basket

 A drain plug in the bottom casting for easily removing sediment and draining for winterizing



Fig. 0500





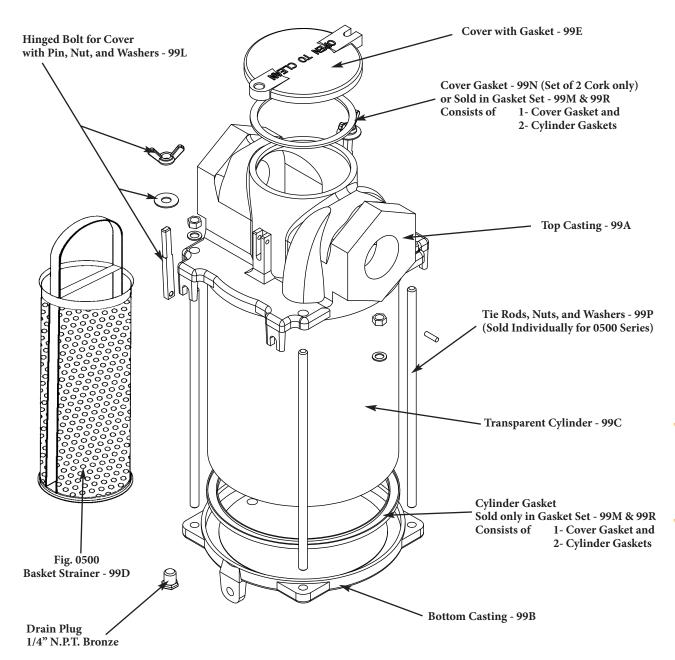
Pipe Size	Height Overall	Width Overall	Standard Pkg.	Dimensions Cylinder	Dimensions Basket	Open Area To Pipe Size Ratio	Spare Gasket Kit* Retail Pkg.
2"	14-1/2"	9"	0500009PLB	8" x 10"	3-7/8" x 10-1/4"	20:1	0500DP999M (or) 99R
2-1/2"	16-1/2"	9"	0500010PLB	8" x 12"	3-7/8" x 12-1/4"	18:1	0500DP999M (or) 99R
3"	18-1/2"	9"	0500011PLB	8" x 14"	3-7/8" x 14-1/4"	14:1	0500DP999M (or) 99R

^{*}Spare Gasket Kit Consists of: 1 Cover Gasket and 2 Cylinder Gaskets





Fig. 0500 Intake Water Strainer Spare Parts



Spare Parts Ordering Information

For Spare Part No. Insert a Spare Part Code Listed Below in Place of the "PLB" in the Strainer's Catalog Number (i.e., 050000999A, Top Casting for 2" (#9) Strainer).

Description	Spare Part Code	Sample Part Number	Package	Description	Spare Part Code	Sample Part Number	Package
Top Casting	99A	050000999A	Boxed	Cork Gasket Kit Consists of:			
Bottom Casting	99B	050000999B	Boxed	1- Cover Gasket and			
Transparent Cylinder	99C	050000999C	Boxed	2- Cork Cylinder Gaskets	99M*	0500DP999M	Bag
Basket Strainer	99D	050000999D	Boxed	Rubber Gasket Kit Consists of:			
Cover with Gasket	99E	050000999E	Boxed	1- Cover Gasket and 2- Rubber Cylinder Gaskets	99R*	0500DP999R	Bag
Hinged Bolt for Cover				Tie Rods, Nuts, and Washers			
With Pin, Nut and Washer	99L	0500DP999L	Bag	Consists of (1 Each for 0500 Series)) 99P	0500DP999P	Bag
Cork Cover Gasket Kit (Set of 2)	99N	0500DP999N	Bag	1			

^{*} Note: Older model strainers utilizing cork cylinder gaskets must order 99M Cork Gasket Kit and newer model strainers must order 99R Rubber Gasket Kit.





Underwater Hardware Packaging and Thread Styles

These durable little tags have everything a retailer needs to showcase products and ring up sales. On each tag you will find the Perko name colorfully printed in blue, our figure number, a product description and the bar code for your scanner. There is even a California Proposition 65 statement (where applicable) on the back. These tags are designed to securely hold on to the product and hang from your standard peg hooks. And since the tags are small, you can also simply toss them into a bulk bin if you prefer. Either way, the tags will stay attached, unlike stickers that fall off bronze parts. These tags are available on thru hulls, adapters and several types of strainers. Look for the "DP" designation. Our "DP" Dealer Package for small items (like the smaller thru hull fittings and tailpieces) will be a 5 or 10 piece bulk box with a bar code label on each individual unit.

THESE 5 OR 10 PIECE CARTONS CANNOT BE BROKEN. Larger items (like valves & strainers) will be available individually boxed as a single unit standard package with a barcode label on the outside of the box.

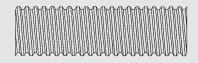
To be sure the parts you receive are barcoded for Retail Sale, order either a "DP" version or a single unit standard package.



All of our small repair/replacement strainer parts are now barcoded. Top Castings (99A), Bottom Castings (99B), Transparent Cylinders (99C), Strainer Baskets (99D) and Covers (99E) are available individually boxed as barcoded single unit standard packages. Smaller items or kits including Cover Hardware Kits (99L), Gasket Kits (99M & 99R) and Tie Rod Kits (99P) are individually packaged as "DP" items in bags with a barcode label.

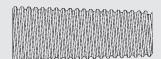
Understanding Underwater Hardware Pipe Thread Styles

Straight Pipe Threads (NPS)



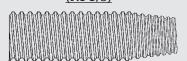
Straight pipe threads are used where connections are purely mechanical and/or bedding compounds are generally used. The intake side of all seacocks, thru-hulls, and scuppers with hose barbs, and all flanged lock nuts use straight threads.

Tapered Pipe Threads (NPT)



Tapered pipe threads are used where connections must also be watertight. The output side of seacocks, in-line valves, hose adapters, drain plugs, raw water, and pump strainers use tapered threads.

Combination <u>Tapered/Straight Pipe Threads</u> (NPT/S)



On all other thru-hulls, scuppers and intake strainers we use a unique combination pipe thread. The first few threads are tapered. The rest remain straight threads. This approach allows the same thru-hull to seal when coupled with an in-line valve or to engage at various depths when connected to a seacock.





Strainers

Intake Strainer

Material: Cast Bronze

For Pipe Sizes: 1/2" to 1-1/4" NPT/S (See Page 96)

Screw Size:

Features: **Machined Slots**

Max. Pipe Size	Max. Hull Thickness	Dimensions Strainer	Retail Pkg.	OEM Bulk Pkg.
1/2"	2-1/4"	3" x 4"	0065DP4PLB	0065004PLB
3/4"	2-3/16"	3" x 4"	0065DP5PLB	0065005PLB
1"	2-1/2"	3" x 4"	0065DP6PLB	0065006PLB
1-1/4"	3″	3-1/4" x 4-1/4"	0065DP7PLB	0065007PLB



Scoop Strainer

Material: Cast Bronze Sizes: 3/8" to 2" For Thru Hull:

Screw Size: #8

Features: **Machined Slots**

For	Dimensions		
Thru-Hull Sizes	Strainer	Retail Pkg.	Standard Pkg.
3/8" & 1/2"	3-1/2" x 2-1/2"	0066DP1PLB	0066001PLB
3/4" & 1"	5" x 3-1/4"	0066DP2PLB	0066002PLB
1-1/4" & 1-1/2"	6-1/4" x 4-1/4"	0066DP3PLB	0066003PLB
2"	8" x 5-1/8"	0066DP4PLB	0066004PLB



Round Strainer

Material: Cast Bronze For Thru Hull: Sizes: 3/8" to 3" Screw Size: Sizes 1-5: #8 Sizes 6 & 7: #10

Drilled Holes Features:

For				
Thru-Hull Size	O.D.	I.D.	Retail Pkg.	Standard Pkg.
3/8" & 1/2"	2-1/2"	1-5/8"	0086DP1PLB	0086001PLB
3/4"	3"	2"	0086DP2PLB	0086002PLB
1"	3-1/2"	2-3/8"	0086DP3PLB	0086003PLB
1-1/4" & 1-1/2"	4"	3"	0086DP4PLB	0086004PLB
2"	5"	3-3/4"	0086DP5PLB	0086005PLB
2-1/2"	6"	4-1/2"		0086006PLB
3"	8"	6-1/4"		0086007PLB









Pump Strainers - For Hose or Pipe

Material: Cast Bronze

For Hose: Fig. 0709 Uses:

For Pipe (NPT): Figs. 0721 & 0722

(See Page 96)





Hose Size	Pipe Size	Length Overall	Width Overall	Dealer Pkg.	Standard Pkg.
5/8"		3-5/8"	1-3/4"	0709DP0PLB	
	1-1/4"	4-3/4"	2-3/4"		0721000PLB
	1-1/4"	4-1/2"	2-3/4"		0722000PLB

 Spare Parts Ordering Information

 Screen for:
 Fig 0709: 070900088A

 Fig 0721: 072100088A
 Fig 0722: 072200088A

Fig. 0721







Seacocks

Seacocks - Ball Valve Design

Cast Bronze Material: Finish: Plain 3/4" to 3" For Hose Sizes:

For Pipe Sizes: Features:

Pipe

Size

Hose

Size

3/4" to 3" NPS (Base) (See Page 96) Polymer Ball and Seat, Assuring a Tight Seal and Ease of Operation, and Drain

Plugs for Winterizing

Fig. 0834

Height*

Flange Overall

Dia.

Handles are Easily Removed

• Fig. 0834: With 90° Curved Hose Adapter

Fig. 0835

Overall

Height*

Fig.

Std.

Fig. 0835: With Straight Hose Adapter

	Fig. 0834	LISTED S95E Sea Valve
S5005PLB 5/ 55006PLB 3 55007PLB 3 55008PLB 3 55009PLB 3 55010PLB 1	Solt Size /16" 8/8" 8/8" 8/8" 8/8" 1/2"	Fig. 0835 PROP 65 WARNING

3/4	3/4	3-1/4	5-//8	U834UUSPLB	5	0833003PLB	5/10
1"	1"	4-3/8"	6-3/8	0834006PLB	5-3/8"	0835006PLB	3/8"
1-1/4"	1-1/4"	4-7/8"	7-5/8	0834007PLB	6-1/4"	0835007PLB	3/8"
1-1/2"	1-1/2"	5-1/2"	8-3/8	0834008PLB	6-5/8"	0835008PLB	3/8"
2"	2"	5-3/4"	10-3/8	0834009PLB	7-7/8"	0835009PLB	3/8"
2-1/2"	2-1/2"	7-1/4"	12-1/2	0834010PLB	10-3/8"	0835010PLB	1/2"
3"	3"	8"	14-3/8	0834011PLB	12"	0835011PLB	1/2"

Fig. 0834

Std. Pkg.

Seacock Body - Ball Valve Design

Material: Cast Bronze

3/4" to 3" NPS (Base) and NPT (Top) (See Page 96) For Pipe Sizes:

Features: Polymer Ball and Seat, Assuring a Tight Seal and Ease of Operation, and Drain Plugs for

Winterizing

Handles are Easily Removed

These Valve Bodies are Offered to Meet the Needs of Applications that Require Extra Long,

Scoop or Flush Type Thru-Hulls.

Pipe Size	Flange Diameter	Overall Height	Fig. 0805 Standard Pkg.	Bolt Size
3/4"	3-1/4"	3-3/8"	0805005PLB	5/16"
1″	4-3/8"	3-3/4"	0805006PLB	3/8"
1-1/4"	4-7/8"	4-1/4"	0805007PLB	3/8"
1-1/2"	5-1/2"	4-1/2"	0805008PLB	3/8"
2"	5-3/4"	5-3/4"	0805009PLB	3/8"
2-1/2"	7-1/4"	7-1/2"	0805010PLB	1/2"
3"	8"	7-3/4"	0805011PLB	1/2"

^{*} Overall Height is measured from the top of the valve body to the bottom of the flange.







(Contains Lead)

MARINA

Spare Parts Ordering Information
The Repair Kits Listed Below Consist of: 1 Ball, 2 Ball Seats and 2 O-Rings for the Valve Stem.

Pipe Size	Repair Kit Part No.	Pipe Size	Repair Kit Part No.	Handle Size 7	Part No. 080500799D
3/4"	080500599B	2-1/2"	080501099B	Size 8	080500899D
1"	080500699B	3″	080501199B	Size 9	080500999D
1-1/4"	080500799B	Handle	Part No.	Size 10	080501099D
1-1/2"	080500899B	Size 5	080500599D	Size 11	080501199D
2"	080500999B	Size 6	080500699D		

^{*} Overall Height is measured from the top of the hose adapter to the bottom of the flange.





Pipe to Hose Adapters

Pipe to Hose Adapter - 90° Curved

Material: Cast Bronze

For Pipe Sizes: 3/4" to 3" NPT (See Page 96) Features: Cast Hex for Easier Installation



Pipe Size 3/4" 1" 1-1/4" 1-1/2"	Size 3/4" 1" 1-1/4"	Length Overall 4-1/2" 4-3/4" 5-1/2"	Retail Pkg. 0063DP5PLB 0063DP6PLB 0063DP7PLB 0063DP8PLB	Standard Pkg.	OEM Bulk Pkg. 0063005PLB 0063006PLB 0063007PLB 0063008PLB
2" 2-1/2" 3"	2"	7" 8-1/2" 10"		0063009PLB 0063010PLB 0063011PLB	

NOTE: The Above Item Meets the Requirements of U.S.C.G. Safety Standards, January 31, 1977 for Gasoline Fuel Systems, 33 CFR 183.



Pipe to Hose Adapter - Straight

Material: Cast Bronze

For Pipe Sizes: 1/2" to 3" NPT (See Page 96)
Features: Cast Hex for Easier Installation

· Precision Machined Hose Barb

Pipe Size	Hose Size	Length Overall	Retail Pkg.	Standard Pkg.	OEM Bulk Pkg.
1/2"	5/8"	1-5/8"	0076DP4PLB		0076004PLB
3/4"	3/4"	1-3/4"	0076DP5PLB		0076005PLB
1"	1″	1-3/4"	0076DP6PLB		0076006PLB
1-1/4"	1-1/4"	2"	0076DP7PLB		0076007PLB
1-1/2"	1-1/2"	2-1/4"	0076DP8PLB		0076008PLB
2"	2"	2-5/8"		0076009PLB	0076009PLB
2-1/2"	2-1/2"	4"		0076010PLB	
3″	3"	4-3/4"		0076011PLB	

NOTE: The Above Item Meets the Requirements of U.S.C.G. Safety Standards, January 31, 1977 for Gasoline Fuel Systems, 33 CFR 183.



Fig. 0076







Thru-Hull Connections

Thru-Hull Connection for Use with Hose*

Material: Cast Bronze

Finish: Chrome Plated or Plain

For Hose Sizes: 5/8" to 2" Max. Hull Thickness: Up To 2"

Features:

• Flange is Machined to Fit Hull and
Grooved to Retain Bedding Compound.

Neck is Threaded to Approximately

3/16 Inch From Flange.







Fig. 0350 Plain

Hose Size	Mounting Hole Dia.	Max. Hull Thickness	O.D. Flange	Plain Bro Retail Pkg.	onze OEM Bulk Pkg.	Chrome Pla Retail Pkg.	ted Bronze OEM Bulk Pkg.
5/8" 3/4" 1" 1-1/8" 1-1/4" 1-1/2"	13/16" 1" 1-5/16" 1-5/16" 1-5/8" 1-7/8"	1-1/16" 1-5/8" 1-3/4" 1-3/4" 1-7/8"	1-1/2" 1-7/8" 2-1/4" 2-1/4" 2-3/4" 3-1/8"	0350004DPP 0350005DPP 0350006DPP 035006ADPP 0350007DPP 0350008DPP	0350004PLB 0350005PLB 0350006PLB 0350006APLB 0350007PLB 0350008PLB	0350004DPC 0350005DPC 0350006DPC 035006ADPC 0350007DPC 0350008DPC	0350004CHR 0350005CHR 0350006CHR 0350006ACHR 0350007CHR 0350008CHR
2"	2-3/8"	2"	3-3/4"		0350009PLB		0350009CHR



Illustration Of Bedding Groove

Spare Flanged Nut See Fig. 0075, on page 105.

*NOTE: Thru-Hull Connections For Use With Hose Are Not Recommended For Use Below The Waterline Per A.B.Y.C. "Safety Standards For Small Craft" Section H-27.



Thru-Hull Connection for Use with Pipe - Flush Mount

Material: Cast Bronze Finish: Plain

For Pipe Sizes: 1/2" to 2" NPT/S (See Page 96)

Max. Hull Thickness: Up To 3-3/8"

Features: The exterior surface of the flange is machined

flat and designed to be countersunk into the hull, resulting in a smooth external fit with no

raised portion to increase drag.





Pipe Size	Mounting Hole Dia.	Max. Hull Thickness	O.D. Flange	Retail Pkg.	OEM Bulk Pkg.
1/2"	13/16"	2-3/16"	1-11/16"	0331DP4PLB	0331004PLB
3/4"	1"	2-3/8"	2"	0331DP5PLB	0331005PLB
1″	1-5/16"	2-9/16"	2-1/4"	0331DP6PLB	0331006PLB
1-1/4"	1-5/8"	2-15/16"	2-7/8"	0331DP7PLB	0331007PLB
1-1/2"	1-7/8"	3-1/16"	2-31/32"	0331DP8PLB	0331008PLB
2"	2-3/8"	3-3/8"	3-7/8"		0331009PLB

Spare Flanged Nut See Fig. 0075, on page 105.



Fig. 0331







Thru-Hull Connections

Thru-Hull Connection for Use with Pipe - Extra Long

Material: Cast Bronze Finish: Plain

For Pipe Sizes: 3/4" to 2-1/2" NPT/S (See Page 96)

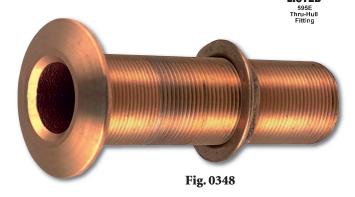
Max. Hull Thickness: Up To 5"

Features: • Flange is Machined to Fit Hull and

Grooved to Retain Bedding

Compound.

 Neck is Threaded to Approximately 3/8 Inch From Flange.



Pipe	Mounting	Max. Hull	O.D.		
Size	Hole Dia.	Thickness	Flange	Retail Pkg.	OEM Bulk Pkg.
3/4"	1″	5"	1-7/8"	0348DP5PLB	0348005PLB
1"	1-5/16"	4-7/8"	2-1/4"	0348DP6PLB	0348006PLB
1-1/4"	1-5/8"	4-5/8"	2-3/4"	0348DP7PLB	0348007PLB
1-1/2"	1-7/8"	4-5/8"	3"	0348DP8PLB	0348008PLB
2"	2-3/8"	4-1/2"	3-5/8"		0348009PLB
2-1/2"	2-7/8"	4-1/4"	4-5/16"		0348010PLB





Illustration Of Bedding Groove



Thru-Hull Connection for Use with Pipe

Material: Cast Bronze Finish: Plain

For Pipe Sizes: 3/8" to 3" NPT/S (See Page 96)

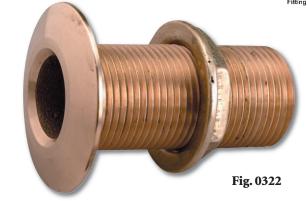
Max. Hull Thickness: Up To 2-3/4"

Features: • Flange is Machined to Fit Hull and

Grooved to Retain Bedding

Compound.

 Neck is Threaded to Approximately 3/8 Inch From Flange.



Pipe Size	Mounting Hole Dia.	Max. Hull Thickness	O.D. Flange	Dealer Pkg.	Standard Pkg.	OEM Bulk Pkg.
3/8"	11/16"	1-3/4"	1-7/16"	0322DP3PLB		0322003PLB
1/2"	13/16"	1-3/8"	1-1/2"	0322DP4PLB		0322004PLB
3/4"	1″	1-1/2"	1-7/8"	0322DP5PLB		0322005PLB
1"	1-5/16"	1-7/8"	2-3/16"	0322DP6PLB		0322006PLB
1-1/4"	1-5/8"	2"	2-3/4"	0322DP7PLB		0322007PLB
1-1/2"	1-7/8"	2-1/4"	3"	0322DP8PLB		0322008PLB
2"	2-3/8"	2-3/8"	3-5/8"		0322009PLB	0322009PLB
2-1/2"	2-7/8"	2-5/8"	4-1/2"		0322010PLB	
3"	3-1/2"	2-3/4"	5"		0322011PLB	





Illustration Of Bedding Groove







Thru-Hull Connections

Thru-Hull Connection for Use with Hose*

Material: Molded Polymer
Finish: White or Black
For Hose Sizes: 1/2" to 1-1/2"
Max. Hull Thickness: Up to 1-7/8"
Features: Narrow Flange



Fig. 0301 White

Hose Size	Mounting Hole Dia.	Max. Hull Thickness	O.D. Flange	W R
1/2"	13/16"	1-1/4"	1-1/4"	0
5/8"	13/16"	1-1/4"	1-1/4"	0.
3/4"	1″	1-7/16"	1-1/2"	0.
1″	1-5/16"	1-1/2"	1-7/8"	0.
1-1/8"	1-5/16"	1-1/2"	1-7/8"	0.
1-1/2"	1-7/8"	1-7/8"	2-1/2"	0.

White Retail Pkg. 0301DP4 0301DP4 0301DP5 0301004 0301DP6 0301DP6 0301DP6 0301DP6 0301DP6 0301DP8 0301D08

Black OEM Bulk Pkg. 0301004BLK 030104ABLK 0301005BLK 0301006BLK 030106ABLK 0301008BLK



Black

ARINA

Spare Flanged Nut See Fig. 0326 on Page 105.

Thru-Hull Connection for Use with Hose*

Material: Molded Polymer
Finish: White or Black
For Hose Sizes: 1/2" to 1-1/2"
Max. Hull Thickness: Up to 1-7/8"
Features: Broad Flange



Hose Size	Mounting Hole Dia.	Max. Hull Thickness	O.D. Flange	White Retail Pkg.	White OEM Bulk Pkg.	Black OEM Bulk Pkg.
1/2"	13/16"	1-1/4"	1-1/2"	0328DP4	0328004	0328004BLK
5/8"	13/16"	1-1/4"	1-1/2"	0328DP4A	032804A	032804ABLK
3/4"	1"	1-7/16"	1-7/8"	0328DP5	0328005	0328005BLK
1"	1-5/16"	1-1/2"	2-1/4"	0328DP6	0328006	0328006BLK
1-1/8"	1-5/16"	1-1/2"	2-1/4"	0328DP6A	032806A	032806ABLK
1-1/2"	1-7/8"	1-7/8"	3"	0328DP8	0328008	0328008BLK



Spare Flanged Nut See Fig. 0326 on Page 105.

*NOTE: Thru-Hull Connections For Use With Hose Are Not Recommended For Use Below The Waterline Per A.B.Y.C. "Safety Standards For Small Craft" Section H-27.





Thru-Hull Scuppers

Adjustable Thru-Hull Scupper

Material: Molded Polymer, Recessed Soft Black Flapper

Finish: White Surface Thickness: 2" to 4-3/4"

Features: Female portion of scupper can be cut down by

one rib for each 1/4 inch difference between

hull thickness and 4-3/4 inches.

Mounting O.D.

I.D. Hole Dia. Flange Retail Pkg. OEM Bulk Pkg.

1-11/32" 1-13/16" 2-15/16" 0343DP 0343

Spare Flapper: 0333DP099A



Transom Mount - Thru-Hull Scupper for Use with Hose*

Material: Molded Polymer, Recessed Soft Black Flapper

Finish: White
For Hose Sizes: 1-1/2"
Max. Hull Thickness: Up To 2-1/8"

Features: Nut and Mounting Hardware Included

Mounting O.D.

Hole Dia. Flange Retail Pkg. OEM Bulk Pkg.

1-7/8" 2-7/8" 0323DP 0323

Spare Flanged Nut See Fig. 0326, on page 105. Spare Flapper: 0323DP099A



Fig. 0323



Transom Mount - Thru-Hull Scupper for Use with Hose*

Material: Molded Polymer, Recessed Soft Black Flapper

Finish: White
For Hose Sizes: 1-1/2"
Max. Hull Thickness: Up To 3-1/4"

Features: Nut and Mounting Hardware Included

Mounting O.D.

Hole Dia. Flange OEM Bulk Pkg.

1-7/8" 2-7/8" 0327

Spare Flanged Nut See Fig. 0326, on page 105. Spare Flapper: 0323DP099A



Fig. 0327



Transom Mount - Thru-Hull Scupper for Use with Hose*

Material: Molded Polymer, Recessed Soft Black Flapper

Finish: White
For Hose Sizes: 1-1/2"
Max. Hull Thickness: Up To 2-1/8"
Features: Nut Included

Mounting O.D.

Hole Dia. Flange Retail Pkg. OEM Bulk Pkg.

1-7/8" 3" 0333DP 0333

Spare Flanged Nut See Fig. 0326, on page 105. Spare Flapper: 0333DP099A



Fig. 0333



*NOTE: Thru-Hull Connections For Use With Hose Are Not Recommended For Use Below The Waterline Per A.B.Y.C. "Safety Standards For Small Craft" Section H-27.

PERKO®



Scuppers & Shower Drain

Thru-Hull Scupper for Use with Hose

Material: Cast Bronze with Recessed Flapper

Finish: Plain or Chrome Plated

For Hose Sizes: 1-1/2" & 2"

Features: "A" Style for thinner hull thickness

"B" Style for greater hull thickness

Flange is machined to fit hull and grooved to retain bedding compound

Illustration Of **Bedding Groove**







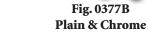


Fig. 0377A Plain

Chrome PROP 65 WARNING

(Contains Lead & DINP)

Spare Flanged Nut See Fig. 0075, on page 105, Spare Flapper: 0333DP099A

NOTE: The Above Thru-Hull Connections For Use With Hose Are Not Recommended For Use Below The Waterline Per A.B.Y.C. "Safety Standards For Small Craft" Section H-27.

In Hose Scupper Valve - A NEW Approach

Material: Polymer Body and Flapper

Finish: Blue Body with Black Flapper Valve

For Hose Size: 1-1/2" and 2"

Mounts inside standard Installation: 1-1/2" or 2" hose

Simple replacement (if needed)



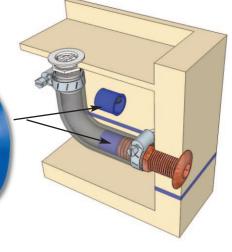


Fig. 0345 for 1-1/2" Hose (Shown)

Hose				
Connection	Length	Width	Retail Pkg.	OEM Bulk Pkg.
1-1/2"	1-1/4"	1-9/16" Dia.	0345DP	0345
2"	1-1/4"	1-15/16" Dia	0345DP2	0345002

Illustration of In-Line Scupper Valve Installed

Flush Mount Drain for Use with Pipe

Material: Cast Bronze with Brass Screen

Finish: Chrome Plated

3/4" & 1-1/4" NPT/S (See Page 96) For Pipe Sizes:

> The exterior surface of the flange is machined flat and designed to be countersunk into the hull, resulting in a smooth external fit.

Pipe Mounting Maximum O.D. Size Hole Dia. Thickness **Flange** Standard Pkg. 3/4" 2-3/8" 2" 0361005CHR 1-1/4" 1-5/8" 0361007CHR 2-15/16" 2-7/8"













Scuppers and Spare Flanged Nuts

Cockpit Scupper for Use with Hose

For Use When Discharge is Below the Waterline

Material: Cast Bronze with Rubber Check Ball

Finish: Plain or Chrome Plated

For Hose Sizes: 1" & 1-1/2" Angle of Outlet: 45° Screw Size: #8

Features: Deck Key Included

Hose	O.D.	O.D.		Chrome Bronze
Size	Grate	Flange		Standard Pkg.
1"	1-13/16"	3-1/4"	0142001PLB	0142001CHR
1-1/2"	2-1/4"	3-5/8"	0142002PLB	0142002CHR

Spare Parts Ordering Information Plain Hose **Chrome Plated** Check Spare **Ball Only Key Only** Size **Bronze Grate Bronze Grate** 12487-8DP 014200199B 0142P0199A 0142C0199A 1-1/2" 0142P0299A 0142C0299A 014200299B 12487-8DP



Flush Mount Cockpit Scupper for Use with Hose For Use When Discharge is Above the Waterline

Material: Molded Polymer

Finish: White
For Hose Sizes: 1-1/2"
Max. Hull Thickness: Up To 1-3/4"

Features: Insert Prevents Passage of Large Objects Without

Restricting Water Flow

 Hose
 O.D.

 Size
 Flange
 I.D.
 Retail Pkg.
 OEM Bulk Pkg.

 1-1/2"
 2-3/4"
 1-1/2"
 0285DP
 0285

Spare Flanged Nut See Fig. 0326, Below



Fig. 0285

Flush Mount Cockpit Scupper for Use with Hose

Material: Molded Polymer with Soft Black Flapper

Finish: White Screw Size: #6

O.D. Flange Retail Pkg. OEM Bulk Pkg. 0365DP 0365





Spare Flanged Lock Nuts

Material: Fig. 0075: Cast Bronze
Finish: Plain

Material: Fig. 0326: Polymer
Finish: White or Black

Pipe	Cast Bronze	Wht Polymer	Wht Polymer	Blk Polymer
Size	Retail Pkg.	Retail Pkg.	OEM Bulk Pkg.	OEM Bulk Pkg.
3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2" 2-1/2" 3"	0075003DPP 0075004DPP 0075005DPP 0075006DPP 0075007DPP 0075008DPP 0075009DPP 0075011DPP	0326DP4 0326DP5 0326DP6 0326DP8 	0326004 0326005 0326006 0326008	0326004BLK 0326005BLK 0326006BLK 0326008BLK





Fig. 0326 White

0

26 Fig. 0326 Black







Garboard Drain Pugs

"T" Handle Garboard Drain Plugs

Material: Cast Bronze Finish: Plain For Pipe Size: 3/4" NPT

Installation: • Fig. 0266: Mounts on outside surface with 4 screws

• Fig. 0363: Flush mounts with flanged lock nut



Fig. 0363

Pipe Size		Threaded		Retail Pkg.	OEM Bulk Pkg.	Screw Size
3/4" 3/4"	3/4"	5/8" 1-1/4"	, -	0266DP0PLB 0363DP0PLB		#8

Spare Plug: 0370DP0PLB., Nut for Fig. 0363: 0075006DPP

Garboard Drain Plug

Material: Cast Bronze with Brass Plug

Finish: Plain
For Pipe Size: 1/2" NPT
Screw Size: #8

Installation: Mounts on outside surface with 3 screws





(Contains Lead)

(Contains Lead)

PROP 65

Pipe
SizeO.D.
FlangeRetail Pkg.OEM Bulk Pkg.1/2"2"0714DP1PLB0714001PLB

Spare Plug: 0742DP1

Garboard Drain Plugs

Material: Cast Bronze Flange with Brass Plug

Zinc Plated Square Wrench

Finish: Plain For Pipe Size: 1" NPT

Wrench Size: 1/2" x 1/2" Square

Screw Size: #10

Installation: Mounts on outside surface with 4 screws

	Length Threaded Neck	O.D. Flange	Standard Pkg.
1″	1"	3-1/8"	0124000PLB

Spare Parts Ordering Information

Wrench: 012400099A Wrench Size: 1/2" x 1/2" Plug: 012400099B



