

<b>Pipe-to-Hose Adaptors</b>	<b>PTH, PTHC, FF, FFC, PTH-S, PTHC-S, PTHD</b>
<b>Thru-Hull Connections</b>	<b>HTH, HTH-S, HTHC-S, TH-CS, TH-W, TH-S, THXL</b>
<b>Special Purpose Fittings</b>	<b>FTH, PN, PNC, STH, HSTH, HSTHXL, TH, TH-S</b>
<b>Special Purpose Thru-Hull Pieces</b>	<b>THT-530, TD, TD-S</b>
<b>Special Purpose Tail Pieces</b>	<b>TP, TPC</b>
<b>Raw Water Manifolds</b>	<b>RWM</b>

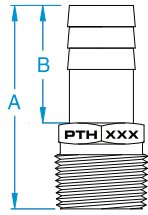


# STAINLESS STEEL AND BRONZE FITTINGS

## PTH SERIES, NPT THREAD, STANDARD FLOW



MARINE  
UL  
LISTED  
647B  
DO NOT USE  
IN POTABLE  
WATER SYSTEMS

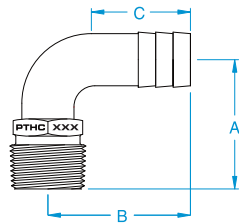


MODEL NO.	THREAD NPT	HOSE ID inch	A inch	B inch	WEIGHT lb	PKG
PTH-500	1/2"	1/2"	2.39	1.38	.17	10
PTH-5062	1/2"	1/2" or 5/8"	2.70	1.80	.18	10
PTH-750	3/4"	3/4"	2.39	1.38	.20	10
PTH-1000	1"	1"	2.48	1.38	.26	10
PTH-1125	1-1/4"	1-1/8"	2.48	1.38	.58	10
PTH-1250	1-1/4"	1-1/4"	2.65	1.55	.60	10
PTH-1500	1-1/2"	1-1/2"	3.00	1.90	.75	10
PTH-2000	2"	2"	3.00	1.90	1.05	1
PTH-2500	2-1/2"	2-1/2"	4.00	2.00	1.75	1
PTH-3000	3"	3"	4.00	2.00	2.58	1
PTH-3000-L	3"	3"	5.00	3.00	2.95	1
PTH-4000	4"	4"	4.25	2.00	3.50	1
PTH-5000	5"	5"	4.25	2.00	5.10	1

## PTHC SERIES, NPT THREAD, STANDARD FLOW



MARINE  
UL  
LISTED  
647B  
DO NOT USE  
IN POTABLE  
WATER SYSTEMS

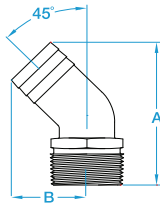


MODEL NO.	THREAD NPT	HOSE ID inch	A inch	B inch	C inch	WEIGHT lb	PKG
PTHC-5062	1/2"	1/2" or 5/8"	1.90	2.00	1.56	.22	10
PTHC-750	3/4"	3/4"	1.86	2.05	1.43	.29	10
PTHC-1000	1"	1"	2.34	2.40	1.63	.54	10
PTHC-1125	1-1/4"	1-1/8"	2.37	2.44	1.75	.78	5
PTHC-1250	1-1/4"	1-1/4"	2.44	2.53	1.38	.80	5
PTHC-1500	1-1/2"	1-1/2"	2.50	2.50	2.25	1.12	5
PTHC-2000	2"	2"	2.88	3.10	2.25	1.58	1
PTHC-2500	2-1/2"	2-1/2"	3.83	3.35	2.10	2.40	1
PTHC-3000	3"	3"	4.20	3.55	2.00	3.85	1
PTHC-4000	4"	4"	5.05	5.25	2.85	5.90	1
PTHC-5000	5"	5"	5.5	6.20	3.30	9.70	1

## PTHD SERIES, NPT THREAD, STANDARD FLOW



MARINE  
UL  
LISTED  
647B  
DO NOT USE  
IN POTABLE  
WATER SYSTEMS

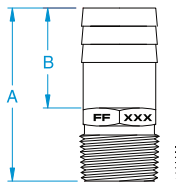


MODEL NO.	THREAD NPT	HOSE ID inch	A inch	B inch	WEIGHT lb	PKG
PTHD-750	3/4"	3/4"	2.98	1.58	.25	10
PTHD-1000	1"	1"	3.15	1.63	.36	10
PTHD-1250	1-1/4"	1-1/4"	3.34	1.68	.56	10
PTHD-1500	1-1/2"	1-1/2"	3.73	1.99	.82	5
PTHD-2000	2"	2"	4.12	2.36	1.15	5
PTHD-2500	2-1/2"	2-1/2"	5.68	2.66	1.96	1
PTHD-3000	3"	3"	6.03	3.06	2.61	1

## FF SERIES, NPT THREAD, FULL FLOW



MARINE  
UL  
LISTED  
647B  
DO NOT USE  
IN POTABLE  
WATER SYSTEMS

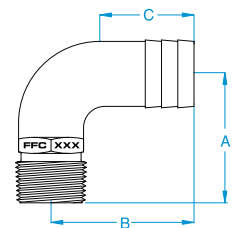


MODEL NO.	THREAD NPT	HOSE ID inch	A inch	B inch	WEIGHT lb	PKG
FF-500	1/2"	3/4"	2.28	1.38	.20	10
FF-750	3/4"	1"	2.39	1.38	.25	10
FF-1000	1"	1-1/4"	2.48	1.38	.32	10
FF-1125	1"	1-1/8"	2.48	1.38	.34	10
FF-1250	1-1/4"	1-1/2"	2.65	1.55	.64	10
FF-1500	1-1/2"	1-3/4"	3.00	1.90	.70	10
FF-2000	2"	2-1/4"	2.89	1.75	.96	10
FF-2500	2-1/2"	2-3/4"	3.47	2.00	1.45	1
FF-3000	3"	3-1/2"	3.61	2.00	2.60	1

## FFC SERIES, NPT THREAD, FULL FLOW



MARINE  
UL  
LISTED  
647B  
DO NOT USE  
IN POTABLE  
WATER SYSTEMS

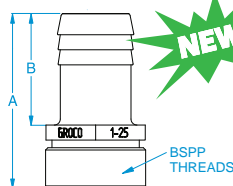


MODEL NO.	THREAD NPT	HOSE ID inch	A inch	B inch	C inch	WEIGHT lb	PKG
FFC-500	1/2"	3/4"	2.06	2.25	1.38	.32	10
FFC-750	3/4"	1"	2.00	2.20	1.45	.46	10
FFC-1000	1"	1-1/4"	2.70	3.00	1.63	.72	5
FFC-1125	1"	1-1/8"	2.38	2.44	1.75	.90	5
FFC-1250	1-1/4"	1-1/2"	3.60	3.43	1.38	1.18	5
FFC-1500	1-1/2"	1-3/4"	4.25	4.40	1.78	1.45	5
FFC-2000	2"	2-1/4"	5.40	5.15	1.85	2.30	1
FFC-2500	2-1/2"	2-3/4"	6.55	6.00	2.00	4.30	1
FFC-3000	3"	3-1/2"	8.25	6.93	2.10	8.20	1

## PTH SERIES, BSPP THREAD, STANDARD FLOW



ISO 9093-1  
CERTIFIED  
DO NOT USE  
IN POTABLE  
WATER SYSTEMS

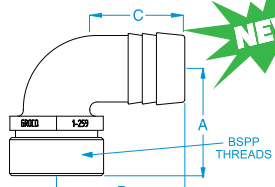


MODEL NO.	THREAD BSPP	HOSE ID mm	A mm	B mm	C mm	WEIGHT kg	PKG
PTH-12PD12	G 1/2"	12	47.0	31.0	-	0.04	10
PTH-34PD20	G 3/4"	20	54.0	37.0	-	0.08	10
PTH-1PD25	G 1"	25	58.0	37.0	-	0.12	10
PTH-114PD32	G 1-1/4"	32	67.0	43.0	-	0.21	10
PTH-112PD40	G 1-1/2"	40	75.0	48.0	-	0.31	10
PTH-2PD50	G 2"	50	87.0	55.0	-	0.55	1
PTH-212PD60	G 2-1/2"	60	95.0	60.0	-	0.76	1
PTH-3PD75	G 3"	75	90.7	51.1	-	1.06	1
PTH-4PD100	G 4"	100	96.0	50.8	-	1.59	1

## PTHC SERIES, BSPP THREAD, STANDARD FLOW



ISO 9093-1  
CERTIFIED  
DO NOT USE  
IN POTABLE  
WATER SYSTEMS

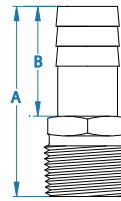


MODEL NO.	THREAD BSPP	HOSE ID mm	A mm	B mm	C mm	WEIGHT kg	PKG
PTHC-12PD12	G 1/2"	12	30.5	37.8	31.0	0.05	10
PTHC-34PD20	G 3/4"	20	32.5	48.8	37.0	0.10	10
PTHC-1PD25	G 1"	25	37.8	45.3	45.3	0.15	10
PTHC-114PD32	G 1-1/4"	32	57.0	60.8	43.0	0.30	5
PTHC-112PD40	G 1-1/2"	40	58.1	69.8	48.0	0.43	5
PTHC-2PD50	G 2"	50	67.0	81.5	81.5	0.76	1
PTHC-212PD60	G 2-1/2"	60	71.8	91.5	91.5	1.00	1
PTHC-3PD75	G 3"	75	100.9	89.0	89.0	1.52	1
PTHC-4PD100	G 4"	100	128.3	133.4	133.4	2.68	1

# STAINLESS STEEL AND BRONZE THRU-HULL FITTINGS

## PTH-S, STANDARD FLOW #316 SS

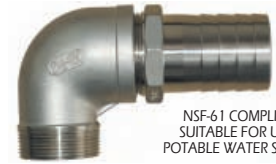
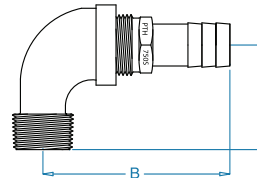
MODEL NO.	THREAD NPT	HOSE ID inch	A inch	B inch	WEIGHT lb	PKG
PTH-750-S	3/4"	3/4"	2.56	1.50	.26	1
PTH-1000-S	1"	1"	2.95	1.70	.41	1
PTH-1250-S	1-1/4"	1-1/4"	3.35	2.10	.57	1
PTH-1500-S	1-1/2"	1-1/2"	3.54	2.20	.77	1
PTH-2000-S	2"	2"	3.94	2.60	1.29	1
PTH-2500-S	2-1/2"	2-1/2"	4.73	2.80	2.30	1
PTH-3000-S	3"	3"	5.12	3.20	3.12	1



NSF-61 COMPLIANT.  
SUITABLE FOR USE IN  
POTABLE WATER SYSTEMS.

## PTHC-S, STANDARD FLOW #316 SS

MODEL NO.	THREAD NPT	HOSE ID inch	A inch	B inch	WEIGHT lb	PKG
PTHC-750-S	3/4"	3/4"	1.31	2.97	.51	1
PTHC-1000-S	1"	1"	1.50	3.40	.79	1
PTHC-1250-S	1-1/4"	1-1/4"	1.75	4.00	1.20	1
PTHC-1500-S	1-1/2"	1-1/2"	1.93	4.40	1.62	1
PTHC-2000-S	2"	2"	2.25	5.00	2.61	1
PTHC-2500-S	2-1/2"	2-1/2"	2.68	6.25	4.69	1
PTHC-3000-S	3"	3"	3.06	7.00	6.50	1



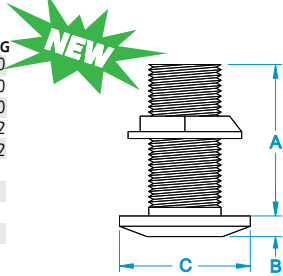
NSF-61 COMPLIANT.  
SUITABLE FOR USE IN  
POTABLE WATER SYSTEMS.

## AVAILABLE WITH BSPP OR NPS THREADS

## TH, STANDARD LENGTH THRU-HULLS BRONZE AND SS

THREAD BRONZE NPS	THREAD BRONZE BSPP	THREAD #316 SS NPS	THREAD NPS/BSPP	A inch/mm	B inch/mm	C inch/mm	WEIGHT* lb/kg	PKG
TH-500-W	TH-50-W	TH-500-WS	1/2"	2.20/55.9	.30/7.62	1.70/43.18	0.40/0.18	10
TH-750-W	TH-75-W	TH-750-WS	3/4"	2.20/55.9	.30/7.62	1.90/48.26	0.50/0.23	10
TH-1000-W	TH-100-W	TH-1000-WS	1"	2.85/72.4	.30/7.62	2.32/58.93	0.70/0.32	10
TH-1250-W	TH-125-W	TH-1250-WS	1-1/4"	2.90/73.7	.30/7.62	2.62/66.55	1.20/0.54	12
TH-1500-W	TH-150-W	TH-1500-WS	1-1/2"	3.15/80.0	.30/7.62	2.89/73.41	1.50/0.68	12
TH-2000-W	TH-200-W	TH-2000-WS	2"	3.90/99.1	.30/7.62	3.33/84.58	1.90/0.86	1
TH-2500-W	TH-250-W	TH-2500-WS	2-1/2"	3.56/90.4	.42/10.67	4.40/111.76	3.80/1.72	1
TH-3000-W	TH-300-W	TH-3000-WS	3"	4.00/101.6	.42/10.67	5.50/139.70	6.00/2.72	1
TH-4000-W	TH-400-W	-	4"	5.31/134.9	.56/14.13	7.00/177.80	13.20/5.99	1
TH-5000-W	-	-	5"	5.34	.57	8.18	18.50	1

\*Weight is with nut.



ISO 9093-1  
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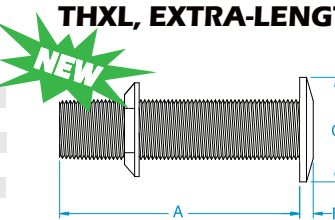
TH-W  
has nut

For installations where hull thickness dictates the use of a longer fitting.

## THXL, EXTRA-LENGTH THRU-HULLS BRONZE

BRONZE	#316 SS	THREAD NPS	A inch	B inch	C inch	WEIGHT* lb	PKG
THXL-750-W	THXL-750-WS	3/4"	5.33	0.30	1.90	0.75	10
THXL-1000-W	THXL-1000-WS	1"	5.33	0.30	2.32	1.00	1
THXL-1250-W	THXL-1250-WS	1-1/4"	5.45	0.30	2.62	1.75	1
THXL-1500-W	THXL-1500-WS	1-1/2"	5.45	0.30	2.89	2.12	1
THXL-2000-W	THXL-2000-WS	2"	5.58	0.30	3.34	2.52	1

\*Weight is with nut.

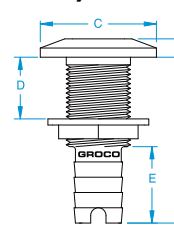


THXL-W  
has nut

BRONZE	#316 SS	THREAD NPS	HOSE ID inch	A inch	B inch	C inch	D* inch	E inch	WEIGHT BRONZE/SS lb	PKG
HTH-500	HTH-500-S	1/2"	1/2"	2.7	0.3	1.7	1.1	1.3	0.4/0.4	10
HTH-625	HTH-625-S	3/4"	5/8"	2.7	0.3	1.9	1.1	1.3	0.5/0.4	10
HTH-750	HTH-750-S	3/4"	3/4"	2.7	0.3	1.9	1.2	1.3	0.6/0.6	10
HTH-1000	HTH-1000-S	1"	1"	2.8	0.3	2.3	1.2	1.3	0.9/0.8	10
HTH-1125	HTH-1125-S	1"	1-1/8"	2.8	0.3	2.3	1.2	1.3	1.1/1.0	10
HTH-1250	HTH-1250-S	1-1/4"	1-1/4"	2.8	0.3	2.6	1.1	1.3	1.2/1.1	12
HTH-1500	HTH-1500-S	1-1/2"	1-1/2"	2.8	0.3	2.9	1.1	1.3	1.5/1.3	12
HTH-2000	HTH-2000-S	2"	2"	2.8	0.3	3.3	1.1	1.3	2.0/1.8	4

\*Maximum hull thickness.

## HTH, HOSE THRU-HULLS BRONZE AND SS

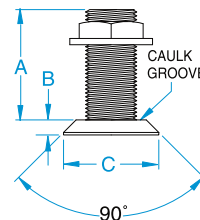


HTH-W  
has nut

## FTH, FLUSH THRU-HULLS BRONZE

MODEL NO.	THREAD NPS	A inch	B inch	C inch	WEIGHT* lb	PKG
FTH-500-W	1/2"	2.31	.30	1.75	.38	10
FTH-750-W	3/4"	2.31	.30	2.00	.50	10
FTH-1000-W	1"	2.56	.30	2.32	.88	10
FTH-1250-W	1-1/4"	3.31	.30	2.93	1.38	12
FTH-1500-W	1-1/2"	3.50	.30	3.20	2.00	12
FTH-2000-W	2"	3.56	.35	3.90	2.75	1
FTH-2500-W	2-1/2"	3.56	.42	4.40	3.75	1
FTH-3000-W	3"	5.00	.42	5.50	6.00	1
FTH-4000-W	4"	5.31	.56	7.00	13.20	1
FTH-5000-W	5"	5.34	.57	8.18	18.50	1

\*Weight is with nut. Order FTH-XXXX-L if nut is not required.

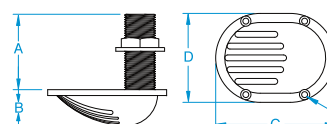


FTH-W  
has nut

## AVAILABLE WITH BSPP OR NPS THREADS

THREAD NPS	THREAD BSPP	THREAD NPS/BSPP	A inch/mm	B inch/mm	C inch/mm	D inch/mm	WEIGHT lb/kg	PKG
STH-500-W	STH-50-W	1/2"	2.20/55.88	1.05/26.67	3.28/83.31	2.55/64.77	.70/0.4	1
STH-750-W	STH-75-W	3/4"	2.20/55.88	1.05/26.67	4.00/101.60	3.05/77.47	.95/0.5	1
STH-1000-W	STH-100-W	1"	2.85/72.39	1.05/26.67	4.00/101.60	3.05/77.47	1.25/0.6	1
STH-1250-W	STH-125-W	1-1/4"	2.90/73.66	1.20/30.48	4.30/109.22	3.35/85.09	1.75/0.8	1
STH-1500-W	STH-150-W	1-1/2"	3.15/80.01	1.30/33.02	4.83/122.68	3.50/88.90	2.25/1.0	1
STH-2000-W	STH-200-W	2"	3.60/91.44	1.50/38.10	5.75/146.05	4.00/101.60	3.50/1.6	1
STH-2500-W	STH-250-W	2-1/2"	3.20/81.28	2.25/57.15	7.85/199.39	5.85/148.59	5.50/2.5	1

Order STH-L if nut is not required.



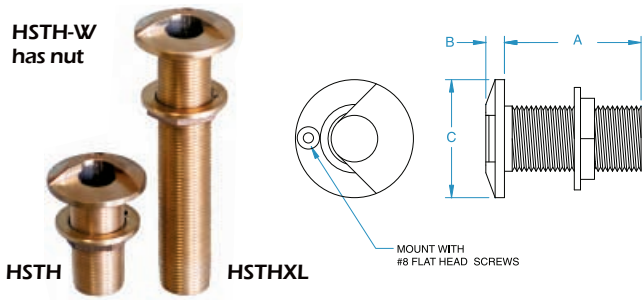
STH-W  
has nut

USE #10  
SCREWS



# SPECIAL PURPOSE FITTINGS

## HSTH, HIGH SPEED EXTRA LENGTH AND STANDARD LENGTH THRU-HULL BRONZE



HSTH MODELS	THREAD NPS	A inch	B inch	C inch	PKG
HSTH-750-W	3/4"	2.20	0.30	1.90	10
HSTH-1000-W	1"	2.85	0.30	2.32	10
HSTH-1250-W	1-1/4"	2.90	0.30	2.62	12
HSTH-1500-W	1-1/2"	3.15	0.30	2.89	12
HSTH-2000-W	2"	3.60	0.30	3.33	1
HSTH-2500-W	2-1/2"	3.56	0.42	4.40	1
HSTH-3000-W	3"	5.00	0.42	5.50	1

HSTHXL MODELS	THREAD NPS	A inch	B inch	C inch	PKG
HSTHXL-750-W	3/4"	5.33	0.30	1.90	1
HSTHXL-1000-W	1"	5.33	0.30	2.32	1
HSTHXL-1250-W	1-1/4"	5.45	0.30	2.62	1
HSTHXL-1500-W	1-1/2"	5.45	0.30	2.89	1
HSTHXL-2000-W	2"	5.58	0.30	3.33	1

Order HSTH-L if nut is not required.

## TH, THRU-HULL LOCK NUTS BRONZE AND #316 SS



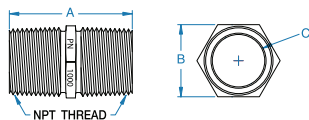
BRONZE	#316 SS	THREAD NPS	A inch	B inch	C inch	WEIGHT lb	PKG
TH-501	TH-501-S	1/2"	1.50	.33	1.13	.05	25
TH-751	TH-751-S	3/4"	1.65	.33	1.30	.04	25
TH-1001	TH-1001-S	1"	2.08	.33	1.55	.11	25
TH-1251	TH-1251-S	1-1/4"	2.50	.45	1.95	.21	25
TH-1501	TH-1501-S	1-1/2"	2.90	.45	2.28	.32	25
TH-2001	TH-2001-S	2"	3.50	.45	2.75	.54	10
TH-2501	TH-2501-S	2-1/2"	4.72	.70	3.46	1.00	10
TH-3001	TH-3001-S	3"	5.45	.70	4.13	1.45	10
TH-4001	-	4"	7.13	.70	6.00	3.61	1
TH-5001	-	5"	8.18	.70	6.50	-	-

## PN, PIPE-NIPPLES BRONZE



PN Series cast bronze pipe nipples provide exact alloy compatibility for making inter-connections between numerous marine components such as seacocks, strainers and check valves.

- Cast-in wrench flat simplifies installation and removal
- Full flow
- 1/2"-4" pipe sizes



MODEL	THREAD NPT	A inch	B inch	C inch	WEIGHT lb	PKG
PN-500	1/2"	1.77	0.88	0.50	0.15	10
PN-750	3/4"	1.77	1.06	0.75	0.19	10
PN-1000	1"	2.34	1.38	1.00	0.31	10
PN-1250	1-1/4"	2.51	1.75	1.25	0.60	10
PN-1500	1-1/2"	2.49	2.00	1.50	0.69	6
PN-2000	2"	2.37	2.50	2.00	0.79	2
PN-2500	2-1/2"	3.41	3.00	2.50	1.24	1
PN-3000	3"	3.53	3.63	3.00	2.25	1
PN-4000	4"	3.53	4.73	4.00	3.20	1

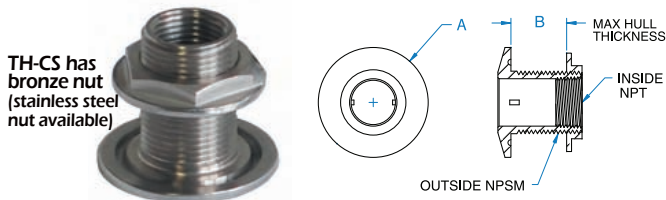
## PNC, PIPE NIPPLES WITH CHECK VALVE BRONZE



PNC Series are made from PN series cast bronze nipples. A check valve is placed inside to prevent back-flow in plumbing systems. The check valve imposes almost zero flow restriction, and requires less than 1/2 PSI to open. Colored bands indicate flow direction (green to red), confirmed by the permanent laminated tag. Sizes 1/2" to 2". Do not use in diesel fuel or gasoline applications. Refer to PN Series above for dimensions drawing.

MODEL	THREAD NPT	A inch	B inch	PSI TO OPEN	WEIGHT lb	PKG
PNC-500	1/2"	1.77	0.88	.45	0.17	10
PNC-750	3/4"	1.77	1.06	.45	0.21	10
PNC-1000	1"	2.34	1.38	.45	0.33	10
PNC-1250	1-1/4"	2.51	1.75	.45	0.62	10
PNC-1500	1-1/2"	2.49	2.00	.45	0.72	6
PNC-2000	2"	2.37	2.50	.45	0.84	2

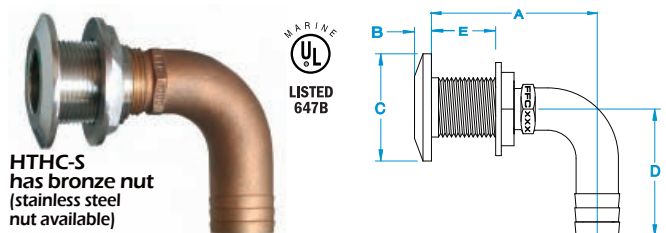
## TH-CS, BULK-HEAD FITTING #316 SS



Create your own above-waterline plumbing connection. #316 SS thru-hull fitting is threaded NPT inside.

MODEL	A inch	B inch	THREAD OUTSIDE NPS	THREAD INSIDE NPT	WEIGHT lb	PKG
TH-750-CS	1.90	1.2	3/4"	1/2"	.36	1
TH-1000-CS	2.32	1.2	1"	3/4"	.51	1
TH-1250-CS	2.62	1.2	1-1/4"	1"	.79	1
TH-1500-CS	2.89	1.2	1-1/2"	1-1/4"	.85	1
TH-2000-CS	3.33	1.2	2"	1-1/2"	1.53	1

## HTHC-S, 90° HOSE THRU-HULLS #316 SS



MODEL	THREAD NPS	HOSE ID	A inch	B inch	C inch	D inch	E* inch	WEIGHT lb	PKG
HTHC-750-S	3/4"	3/4"	2.71	.30	1.90	2.25	1.25	.56	1
HTHC-1000-S	1"	1"	2.75	.30	2.32	2.20	1.25	.81	1
HTHC-1250-S	1-1/4"	1-1/4"	2.75	.30	2.62	3.03	1.25	1.06	1
HTHC-1500-S	1-1/2"	1-1/2"	4.70	.30	2.89	3.40	1.25	1.31	1
HTHC-2000-S	2"	1-3/4"	5.40	.30	3.33	3.65	1.25	2.00	1

\*Maximum hull thickness.

## THE CONCEPT

THT-530 makes the installation of standard GROCO® thru-hull fittings possible by a single installer. Slide the thru-hull fitting, flanged end first, over the tool. (It will stop at the proper step.) Tie a length of monofilament to the eye and place it into the already-cut hole in the hull of the boat. Apply caulking to the flange of the fitting, and pull the fitting through the hole and against the hull from inside the boat. Thread the mono-filament through the locknut or seacock. With the fitting pulled firmly against the hull the locknut or the seacock may be screwed onto the fitting.

## THRU-HULL FITTING INSTALLATION TOOL

THT-530 fits GROCO Thru-hull Fitting Sizes from 1/2" through 3"

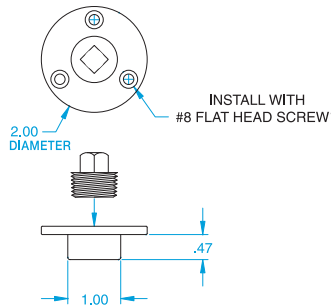


**NOT FOR REMOVAL OF OLD THRU-HULL FITTINGS**

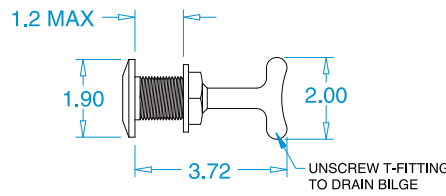
## THE CONCEPT

Once your boat is in its cradle, sling, lift, or trailer, draining the bilge is easy with a garboard drain. All models install from the outside. TD-500 allows draining from outside by removing the square-drive plug. TD-750 (available in bronze or #316 SS) drains by removing the T-handle from inside.

## HULL DRAINS



TD-500



TD-750-S

TD-750

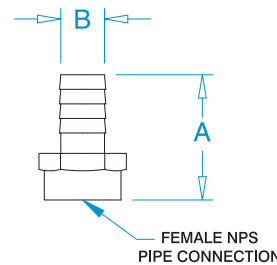
# SPECIAL PURPOSE TAIL PIECES

## THE CONCEPT

TP and TPC Series tail pieces are threaded with NPS (straight) female pipe thread, and are for use with GROCO® SV Series seacocks or with any product with straight male pipe thread.

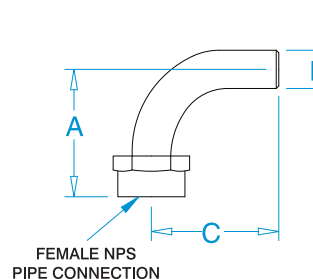
The use of TP and TPC Series tail pieces on products with NPT (tapered) pipe thread is recommended only for low pressure applications, and then only with a generous application of pipe sealant or thread tape.

## TP SERIES - STRAIGHT BRONZE TAIL PIECE



TP Straight Tail Piece

## TPC SERIES - 90° BRONZE TAIL PIECE



TPC 90° Tail Piece

TPC Series 90° tail pieces are comprised of two pieces. The swivel may be rotated in any direction to facilitate ease of hook-up; then the nut is tightened.

MODEL NO.	THREAD NPS	A inch	B inch	C inch	PKG
TPC-750	3/4"	2.75	3/4"	2.63	1
TPC-1000	1"	2.75	1"	2.38	1
TPC-1250	1-1/4"	2.50	1-1/4"	2.38	1
TPC-1500	1-1/2"	3.75	1-1/2"	2.75	1
TPC-2000	2"	3.75	2"	3.63	1
TPC-2500	2-1/2"	4.50	2-1/2"	4.50	1

NEW SIZES

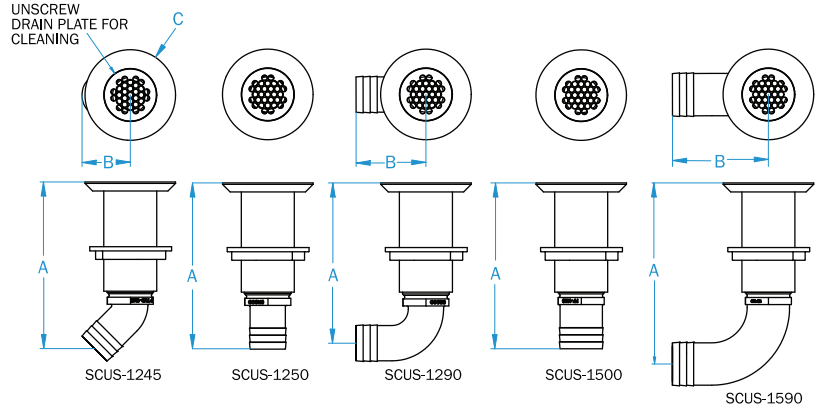
## SCUS / SCUC SERIES



Scuppers are installed flush with the deck and have a removable drain.

Choose between polished #316 SS or chromed bronze finish.

1-1/4" and 1-1/2" ID hose connections are offered in straight, 45° and 90° orientation



		A	B	C	HOSE ID
POLISHED SS	CHROME PLATED	inch	inch	inch	
SCUS-1245	SCUC-1245	5.9	1.7	3.2	1-1/4"
SCUS-1250	SCUC-1250	5.9	-	3.2	1-1/4"
SCUS-1290	SCUC-1290	5.7	2.5	3.2	1-1/4"
SCUS-1500	SCUC-1500	5.9	-	3.2	1-1/2"
SCUS-1590	SCUC-1590	6.4	3.4	3.2	1-1/2"

## RWM SERIES - RAW WATER MANIFOLD

U.S. PATENT NO. 622,713,381



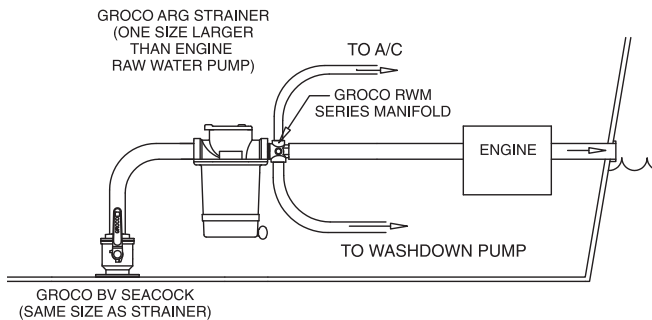
**RWM Raw Water Manifold**

We do not recommend the practice of supplying raw or filtered water to multiple "consumers" from a single inlet source (ie: toilets, washdown pumps, air conditioners, generators, etc.) but we do recognize that it is common practice to do so, particularly when one or more of the consumers operates intermittently.

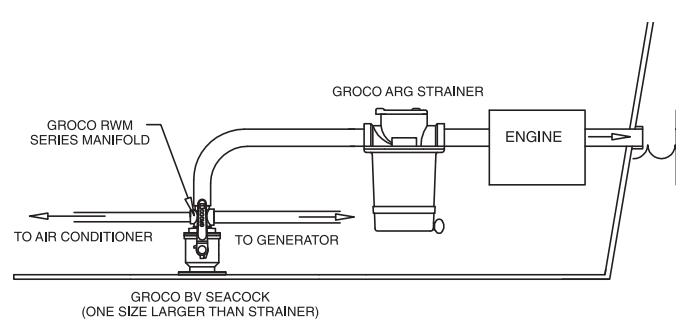
GROCO® RWM Raw Water Manifold requires that you use the proper pipe or hose sizes, thus reducing the possibility of dangerous flow restrictions to consumers.

The barbed outlet is connected to the primary consumer (your main engine, for example) and is smaller than the threaded inlet which screws into a seacock or strainer outlet of the next larger pipe size (see sample installations). The larger threaded end requires that a larger strainer or seacock be used, thus promoting adequate flow to consumers.

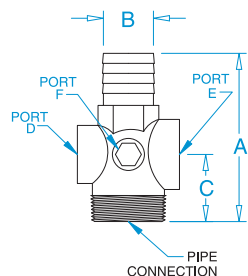
The combined cross-sectional flow of the consumers does not exceed the cross-section of the threaded inlet.



Sample Installation shows RWM Manifold used to distribute filtered water



Sample Installation shows RWM Manifold used to distribute raw (unfiltered) water



MODEL	THREAD NPT	A inch	B inch	C inch	THREAD PORT-D NPT	THREAD PORT-D NPT	THREAD PORT-F NPT
RWM-1250	1-1/4"	3.75	1"	1.37	1/2"	1/2"	1/4"
RWM-1500	1-1/2"	4.13	1-1/4"	1.57	3/4"	3/4"	1/4"
RWM-1500-1	1-1/2"	4.13	1-1/4"	1.57	1/2"	1"	1/4"
RWM-2000	2"	4.65	1-1/2"	2.00	3/4"	3/4"	1/4"
RWM-2000-1	2"	4.65	1-1/2"	2.00	3/4"	1"	1/4"
RWM-2500	2-1/2"	5.00	2"	2.00	3/4"	1"	1/4"
RWM-3000	3"	5.50	2-1/2"	2.50	1"	1-1/4"	1/4"