

# **Position Monitored Ball Valves**





TRUDESIGN<sup>™</sup> Certified Ball Valves are specifically designed for use in marine applications above and below the water line.

#### Features:

- Allows remote monitoring of up to four Ball Valves (per seacock display panel) in the open or closed position.
- Can be wired into or part of an engine or generator start "interlock" to ensure they don't start without cooling water available.
- Manufactured from a glass-reinforced Nylon composite High strength, tough and light weight.
- Immune to corrosion & electrolysis No corrosion breakages, increased safety.
- Electrically non-conductive. No electrical bonding.
- Suitable for use on all hull types aluminium, steel, wood or FRP.
- The ball and sealing rings utilise a PTFE polymer to ensure a smooth action and minimal fouling of the internal ball.
- Can be "locked" in the closed position to comply with toilet waste outlet regulations. US Coast Guard Regulation 33 CFR 159.7 and ISO Standard 8099 for locking of toilet waste outlets
- Large operating temperature range From -40°C to +110°C (for Ball Valve only)
- Available in both BSP and NPS thread forms
- U.V resistant Will not degrade or discolour from the sun's ultraviolet rays.
- 100% leak tested before leaving factory.

### Compliance

**ISO 9093-2021 Small craft** -TRUDESIGN Skin Fittings and Ball Valves comply with ISO 9093:2021 and certified by the International Marine Certification Institute (IMCI).

For sizes <sup>3</sup>/<sub>4</sub>" through to 3"

Excludes the ½" size.

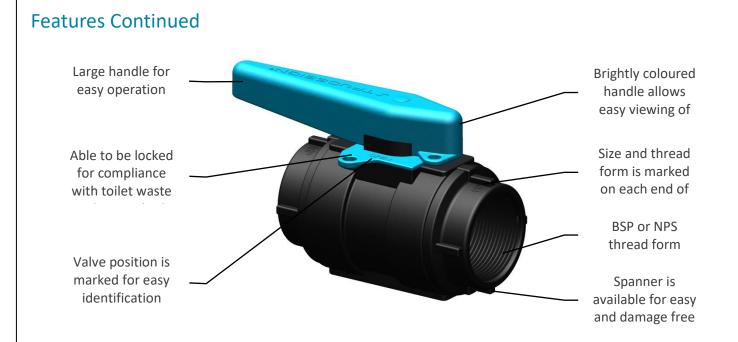
<u>American ABYC H-27 – 500Lb static load test</u> - TRUDESIGN Skin Fittings and Ball Valves meet the American ABYC H-27 – 500Lb static load test; Seacocks, Thru-Hull Fittings, and Drain Plugs – independently verified by IMANNA Laboratory Inc.

For sizes 1<sup>1</sup>/<sub>4</sub>" through to 3" the ABYC Collar it is <u>not</u> a requirement to meet this static load test. TruDesign ABYC Load Bearing Collar is required for the size <sup>3</sup>/<sub>4</sub> and 1" to meet this static load test.

The  $\frac{1}{2}$ " does not meet the 500Lb static load test with or without the ABYC collar



### PRODUCT INFORMATION



# Models

Internal	BSP Thread						
diameter	Part #	Description					
19mm [¾"]	90473	Ball Valve Position Monitored 1/2" BSP					
	90277	Ball Valve Position Monitored 3/4" BSP					
	90243	Ball Valve Position Monitored 1" BSP					
32mm [1¼"]	90239	Ball Valve Position Monitored 11/4" BSP					
	90236	Ball Valve Position Monitored 11/2" BSP					
52mm [2"]	90474	Ball Valve Position Monitored 2" BSP					

#### NPS Thread

Part #	Description
91219	Ball Valve Position Monitored 1/2" NPS
91220	Ball Valve Position Monitored ¾" NPS
91221	Ball Valve Position Monitored 1" NPS
91222	Ball Valve Position Monitored 11/4" NPS
91223	Ball Valve Position Monitored 11/2" NPS
91224	Ball Valve Position Monitored 2" NPS

Ball Valves are supplied with spanner and installation instructions

# Weight

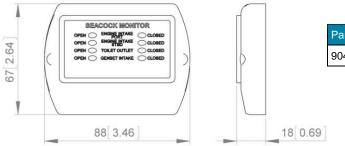
Internal Diameter	Thread Size	Weight (g)	Weight (oz)		
19mm [¾"]	1/2", 3/4", 1"	350	12.3		
32mm [1¼"]	1¼", 1½"	500	17.6		
52mm [2"]	52mm [2"] 2"		26.4		
90412 Panel I	Display Ball Valve	230	8.1		



### **Display Panel**

- The Ball Valve Display Panel is supplied with the following.
  - o Installation instructions
  - $\circ$  2 x hook-up wire with connector 2.5m (8.2')
  - $\circ \quad \text{Mounting screws and covers.}$
  - Sticker Sheet with the following options

AIRCON INTAKE	ENGINE INTAKE	HOLDING TANK OUTLET PORT	TOILET INTAKE STABD
BAIT TANK INTAKE	ENGINE INTAKE PORT	HOLDING TANK OUTLET STBD	TOILET OUTLET
BLACK WATER	ENGINE INTAKE	SALTWATER	TOILET OUTLET
OUTLET	STBD	WASH INTAKE	AFT
BLACK WATER OUTLET AFT	GENSET INTAKE	TOILET INTAKE	TOILET OUTLET FWD
BLACK WATER	HOLDING TANK	TOILET INTAKE	TOILET OUTLET
OUTLET FWD	OUTLET	AFT	PORT
BLACK WATER	HOLDING TANK	TOILET INTAKE	TOILET OUTLET
OUTLET PORT	OUTLET AFT	FWD	STBD
BLACK WATER	HOLDING TANK	TOILET INTAKE	WATERMAKER
OUTLET STBD	OUTLET FWD	PORT	INTAKE



Part #	Description
90412	Panel Display Ball Valve

PRODUCT

INFORMATION

The Position Monitoring function switches state when the Ball Valve is in the open position.



BLACK = Valve closed RED = Supply (10-32V) 520mAh MAX GREEN = Valve open



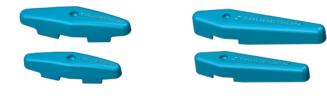
# **Thread Sealing**

For Thread Sealing Instruction go to our Technical Information Sheet on the TruDesign Website – Scan QR Code



# Replacement "T" and "Lever" Handles

Part #	Description
91038	Replacement " <b>T</b> " handle Small – 25mm,19mm,13mm (1", ¾", ½")
91040	Replacement 'T' Handle Large – 50mm-38mm-32mm (2", 11/2", 11/4")
91155	Replacement Lever Handle Small 25mm-19mm-13mm (1", ¾", ½")
91156	Replacement Lever Handle Large 50mm-38mm-32mm (2", 1½", 1¼")



# **Ball Valve Spanner**

90476	Spanner / Wrench Ball Valve ½" PKG
90477	Spanner / Wrench Ball Valve ¾″ & 1″ PKG
90478	Spanner / Wrench Ball Valve 1¼" & 1½" PKG
90479	Spanner / Wrench Ball Valve 2" PKG



Ball Valve Handle Tag – Identification Tags are available that easily fit onto the Lever Handles. See Separate Product Information Sheet.

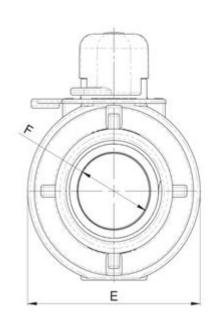


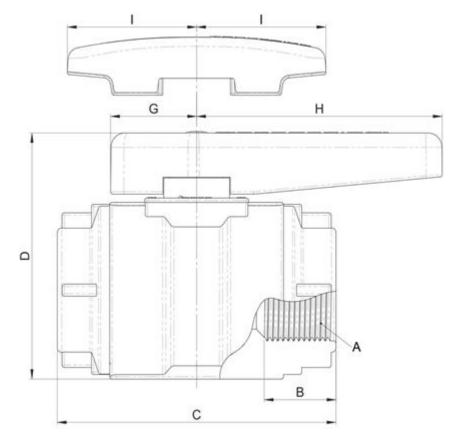


# PRODUCT INFORMATION

# Dimensions

Α	E	3	С		D E		F		Lever Handle				T-Handle			
Size	Size Length		Len	igth	Hei	ght	Width			ന്നന പെത്	G		н		I	
15"	25	1 "	102mm	4 "	88mm	3 4/9"	61mm	2 3/8"	20mm	3/4"	32mm	11/4"	93mm	3 2/3"	50mm	2 "
36"	22mm	6/7"	102mm	4 "	88mm	34/9"	61mm	2 3/8"	20mm	3/4"	32mm	11/4"	93mm	3 2/3"	50mm	2 "
1"	22mm	6/7"	102mm	4 "	88mm	34/9"	61mm	2 3/8"	20mm	3/4"	32mm	11/4"	93mm	3 2/3"	50mm	2 "
1%"	32mm	11/4"	122mm	44/5"	102mm	4 "	76mm	3	32mm	11/4"	38mm	11/2"	108mm	41/4"	57mm	21/4"
1%"	32mm	11/4"	122mm	44/5"	102mm	4 "	76mm	3 "	32mm	11/4"	38mm	11/2"	108mm	41/4"	57mm	21/4"
2"	32mm	11/4"	141mm	3"	124mm	46/7"	99mm	37/8"	48mm	18/9"	38mm	11/2"	108mm	41/4"	57mm	21/4"





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