

# **TruDesign Ball Valves**



Designed and made in New Zealand TRUDESIGN Certified Ball Valves are specifically designed for use in marine applications above and below the water line.

Certified to ISO 9093-2021\* by the International Marine Certification Institute (IMCI, Belgium) when fitted to TRUDESIGN Skin Fittings (Thru Hulls).

1" to 3" sizes comply with ABYC H-27 load standards. (See website).

Type approved by Bureau Veritas to ISO 9093-2021. (Standard Ball Valves ¾" to 3").

### **Key Features:**

- Standard Ball Valve Range includes ½", ¾", 1",1¼", 1½", 2" and 3".
- Compact Ball Valve Range ¾" and ½" models.
- 6:1 weight savings over Bronze.
- Manufactured from a glass-reinforced Nylon composite High strength, tough and light weight.
- Immune to corrosion & electrolysis No corrosion or 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.
- Locking feature allows the valve to be locked in the closed position to comply with toilet waste outlet regulations.
- Large operating range Suitable for all marine conditions from -40°C to +110°C
- Available in both BSP and NPS thread forms.
- Can be used in Engine Rooms
- "T" Handle or "Lever" Handle options\*\*
- Handle Identification Tags are available to easily identify Ball Valve Function\*\*
- U.V resistant No degradation from the sun's ultraviolet rays.
- 100% leak tested before leaving factory.

\*Does not apply to ½" standard ball valve or ½" Compact ball valve. The ¾" Compact Ball Valve is under ISO test.

\*\*Does not apply to 3" or Compact Ball Valve range



## **Key Features Standard Ball Valve**

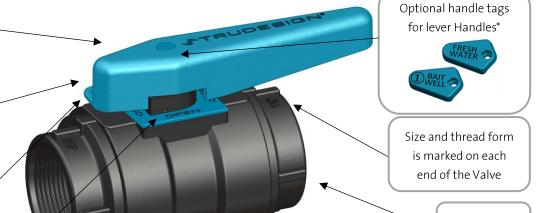


Lever handle or T Handle Option\*

Able to be locked for compliance with toilet waste outlet standards

Valve position is marked for easy identification

www.trudesign.nz



BSP or NPS Thread form

Leaders in

Marine Composite Fittings

Spanner is available for easy and damage free installation

\*Does not apply to 3" or Compact Ball Valve range

# Key Features Compact Ball Valve - 1/2" and 3/4"





### **Part Numbers**

			Ball Val	ves – Sta	ndard - I	Lever Handle			
		Part N	umbers						
	В:	SP		NI	PS	Doscription			
TAGGED	NON PKG Barcode 942100712 + xxxx	PKG	PKG Barcode 942100712 + xxxx	TAGGED	PKG	Description			
90471		90548	1045	90647		Ball Valve ½"			
90276		90549	1061	90648		Ball Valve ¾"			
90242		90550	1078	90649		Ball Valve 1"			
90240		90551	1085	90650		Ball Valve 1 ¼"			
90235		90552	1092	90651		Ball Valve 1 ½"			
90472		90553	1108	90652		Ball Valve 2"			
91157	4819					Ball Valve 3" with Tag			
			Ball \	/alves – S	tandard	- T Handle			
		Part N	umbers						
	B	SP		NI	PS	Description			
TAG	GED	PKG		TAGGED	PKG	'			
91	145					Ball Valve ½" T Handle			
91	140					Ball Valve ¾" T Handle			
91	141					Ball Valve 1" T Handle			
91	142					Ball Valve 1 ¼" T Handle			
91	143					Ball Valve 1 ½" T Handle			
91	143					Ball Valve 2" T Handle			
				Ball Valv	es - Com	npact			
		Part N	umbers						
	B	SP	T	NI	PS	Description			
TAGGED		PKG PKG Barcode 942100712 + xxxx		TAGGED	PKG	Description			
91	370	91371	5465	91379		Ball Valve ½" Compact			
91368		91369 5458		91377		Ball Valve ¾" Compact			

<sup>\*</sup>PKG product is supplied in branded bags

Weights												
Standard Ball Valve												
Size	1/2", 3/4", 1"	1¼", 1½"	2"	3"								
Weight (g/oz)	300 g / 10.6 oz	450 g / 15.9 oz	700 g / 24.7 oz	1,510 g / 53.3 oz								
Compact Ball Valve												
Size	1/2", 3/4"											
Weight (g/oz)	50 g / 1.5 oz											



#### **Part Numbers Continued**

Handles Handles											
Pai	rt Numbers		Description								
NON PKG	PI	KG									
91155			Ball Valve Replacement Lever Handle Small 25-19-13mm	- Commence							
91156			Ball Valve Replacement Lever Handle Large 50-38-32mm								
91290			Ball Valve Replacement Lever Handle 3"								
91038			Ball Valve Replacement 'T' Handle Small 25-19-13mm								
91040			Ball Valve Replacement 'T' Handle Large 50-38-32mm								
91374			Ball Valve Replacement Lever Handle CMPT	· Flanning							
Spanners / Wrenches (Standard Ball Valves)											
			Spanners / Wrenches (Standard Ball Valve	es)							
Pai	rt Numbers		Spanners / Wrenches (Standard Ball Valve	es) 							
Pai NON PKG	rt Numbers PKG	PKG Barcode 942100712 + xxxx	Descriptio								
	1	942100712+									
	PKG	942100712 + xxxx	Descriptio								
	<b>PKG</b> 90476	942100712 + xxxx 0446	Descriptio Spanner / Wrench Ball Valve ½"								
	<b>PKG</b> 90476 90477	942100712 + xxxx 0446 0439	Descriptio  Spanner / Wrench Ball Valve ½"  Spanner / Wrench Ball Valve ¾" & 1"								

<sup>\*</sup>PKG product is supplied in branded bags

#### **Installation:**

Ensure the skin fitting (Thru Hull) and ball valve location enables full operation of the valve handle. See also our info sheet on TRUDESIGN skin fitting installation.

Screw Ball Valve onto the skin fitting (Thru Hull) using the correct Ball Valve Spanner (available from TRUDESIGN), or another appropriate tool. Tighten to a maximum of 16Nm (12ft/lbs).

Check that the final position of the Ball Valve is such that it allows full movement of the handle from the open to closed position, and that it is clear of objects which may cause inadvertent operation.

Note: The connecting threads on each end of the Ball Valves are a parallel thread form. The advantage of parallel threads over tapered is that there is maximum engagement between the mating threads providing a strong and watertight seal. Mixing parallel and tapered threads can cause strength and sealing problems as the engagement can in some cases be only a few turns.

### **Thread Sealing**

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

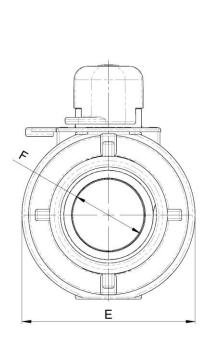


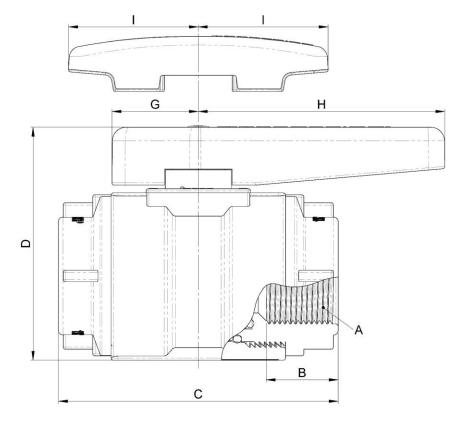
#### **Dimensions – Ball Valves Standard**

Α	E	B C		D E		<b>:</b>	F		Lever Handle				T-Handle			
Size	Size Length		Length		Height Width		Mini Inter		G		н		ı			
1/2"	25mm	1"	102mm	4"	88mm	3 4/9"	61mm	2 3/8"	20mm	3/4''	32mm	1 1/4"	93mm	3 2/3"	50mm	2"
3/4"	22mm	6/7''	102mm	4"	88mm	3 4/9"	61mm	2 3/8"	20mm	3/4"	32mm	1 1/4"	93mm	3 2/3"	50mm	2"
1"	22mm	6/7''	102mm	4"	88mm	3 4/9"	61mm	2 3/8"	20mm	3/4"	32mm	1 1/4"	93mm	3 2/3"	50mm	2"
1¼"	32mm	1 1/4"	122mm	4 4/5"	102mm	4"	76mm	3"	32mm	1 1/4"	38mm	1 1/2"	108mm	4 1/4"	57mm	2 1/4"
1½"	32mm	1 1/4"	122mm	4 4/5"	102mm	4"	76mm	3"	32mm	1 1/4"	38mm	1 1/2"	108mm	4 1/4"	57mm	2 1/4"
2"	32mm	1 1/4"	141mm	3"	124mm	4 6/7"	99mm	3 7/8"	48mm	1 8/9''	38mm	1 1/2"	108mm	4 1/4"	57mm	2 1/4"
3"	46mm	1 4/5"	205mm	8"	180mm	7"	153mm	6"	75mm	3"	50mm	2"	160mm	6 2/7"	-	-

## **Dimensions – Ball Valves Compact**

Α	ВС		D		E		F		Lever Handle				T-Handle			
Size	Length		Length		Height		Width		Minimum Internal Ø		G		Н		I	
1/2"	22mm	7/8"	74mm	2 9/10"	54mm	2 1/8"	39mm	1 1/2"	15mm	3/5"	18mm	5/7''	45mm	1 7/9''	-	-
3/4"	22mm	7/8"	74mm	2 9/10"	54mm	2 1/8"	39mm	1 1/2"	15mm	3/5''	18mm	5/7''	45mm	1 7/9"	-	-





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