

BALL VALVE

Designed and made in New Zealand for use in marine applications above and below the water line. Our Ball Valves are IMCI approved to ISO standard 9093-2, and are ideal for controlling and monitoring inlet and outlet water requirements.



The body of the Ball Valve is manufactured in a glass reinforced nylon composite with high impact and tensile strength resulting in a light weight unit, free from corrosion and electrolysis issues. The ball and sealing rings utilise a PTFE polymer to ensure a smooth action, and continuous ease of operation over many years.

MODELS

Part #	Description
19mm ID	
90471	Ball Valve ½" BSP
90548	Ball Valve ½" BSP PKG
90276	Ball Valve ¾" BSP
90549	Ball Valve ¾" BSP PKG
90242	Ball Valve 1" BSP
90550	Ball Valve 1" BSP PKG
32mm ID	
90240	Ball Valve 1¼" BSP
90551	Ball Valve 1¼" BSP PKG
90235	Ball Valve 1½" BSP
90552	Ball Valve 1½" BSP PKG
52mm ID	
90472	Ball Valve 2" BSP
90553	Ball Valve 2" BSP PKG



* PKG denotes product is packaged in a plastic bag with header card. Other product is packaged loose.

STANDARDS

Tru Design Ball Valves are certified by the International Marine Certification Institute (IMCI) to meet;

ISO 9093-2 Small craft -- Seacocks and through-hull fittings -- Part 2: Non-metallic

In meeting ISO 9093-2, our Ball Valves have been tested with a 155kg load hanging off a hose fitting while connected to our Skin Fitting as shown.



KEY FEATURES

Feature :	
Manufactured from a glass reinforced nylon composite	High strength and light weight.
Compatible with all hull types	Can be used on aluminum, steel, wood or FRP hulls.
Immune to corrosion and electrolysis	Long life with no concerns over decreased performance due to corrosion.
Chemical resistant	Impervious to diesel, petrol and antifouling paints.
UV resistant	These fittings will not break down with ultraviolet light or discolour from the sun.
High quality surface finish	Will not discolour with green film as similar bronze fittings do.
IMCI approved to the ISO 9093-2 Standard.	Suitable for connection to similarly approved through hull skin fittings such as the IMCI approved Tru-Design Skin Fitting range.
Ball and seal rings molded in a PTFE filled polymer.	Ensures a smooth operation, and long life.
Brightly coloured handle.	Allows for easy viewing of seacock position, "open" or "closed".
Quality control.	Each Ball Valve is leak tested prior to leaving the Tru-Design premises.
Large operating temperature range.	Suitable for all marine environments, from -40°C to +80°C
Spanner available	A custom fitted spanner greatly simplifies fitting, and stops the damage caused by pipe wrenches.

SPECIFICATIONS

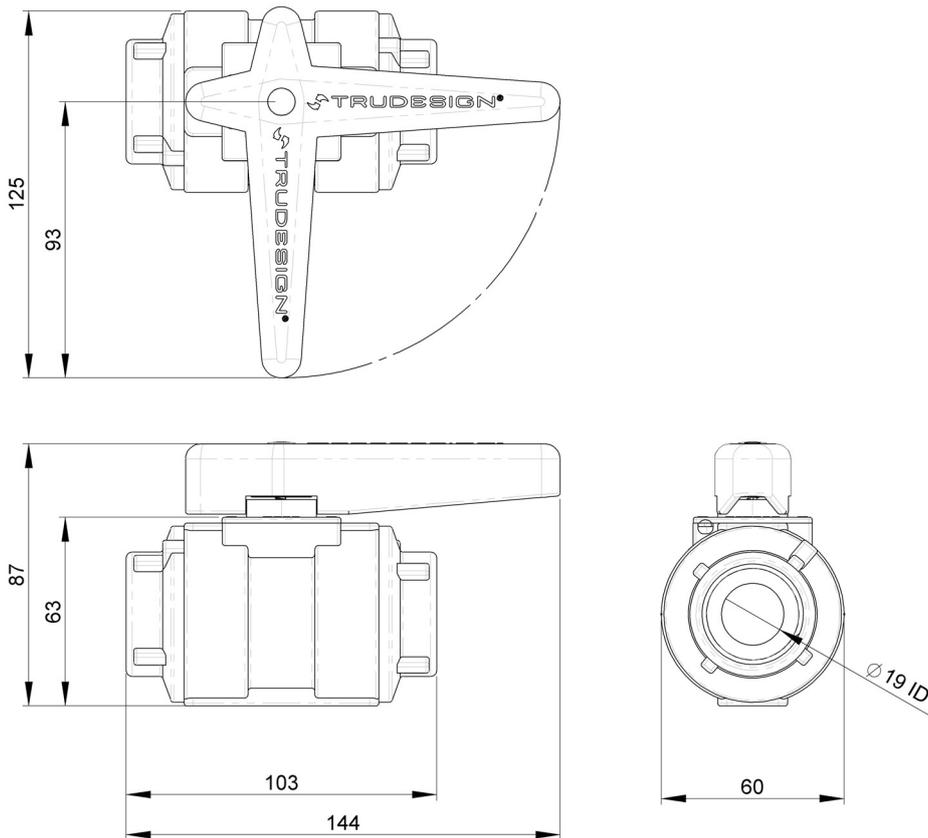
The connecting threads on each end of our ball valves are BSP (British Standard Pipe) and are parallel. These parallel threads are designed so that thread tape is wound onto a male skin fitting or tail then screwed into the ball valve. The advantage of parallel threads rather than tapered is that there 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 frequently be only a few turns.

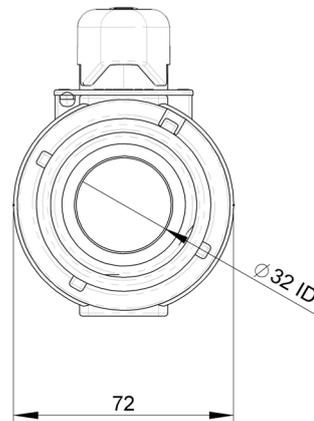
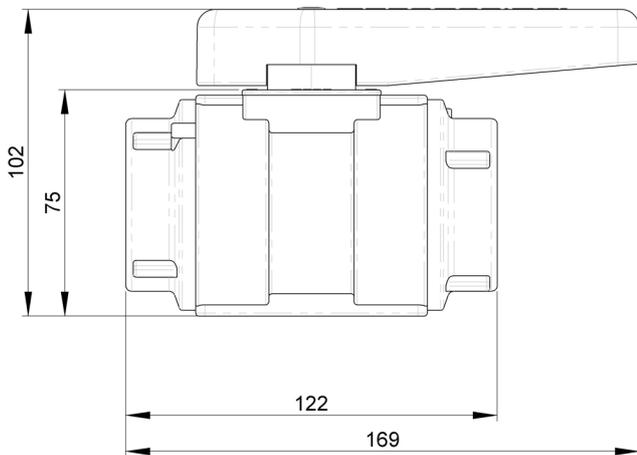
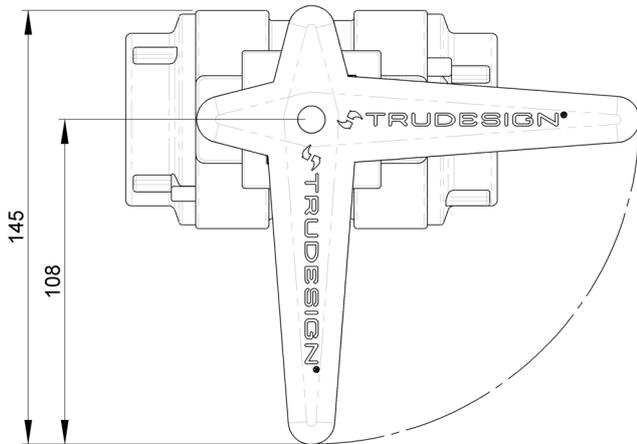
DIMENSIONS

All dimensions in mm.
All dimensions nominal.

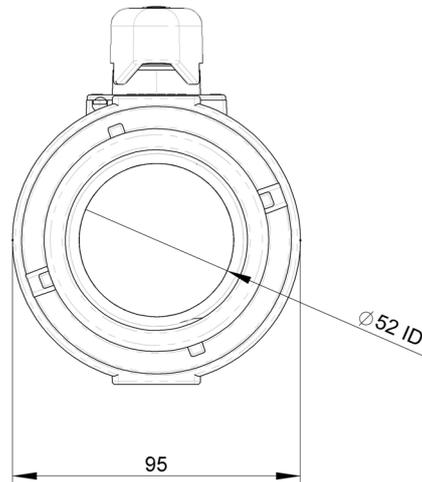
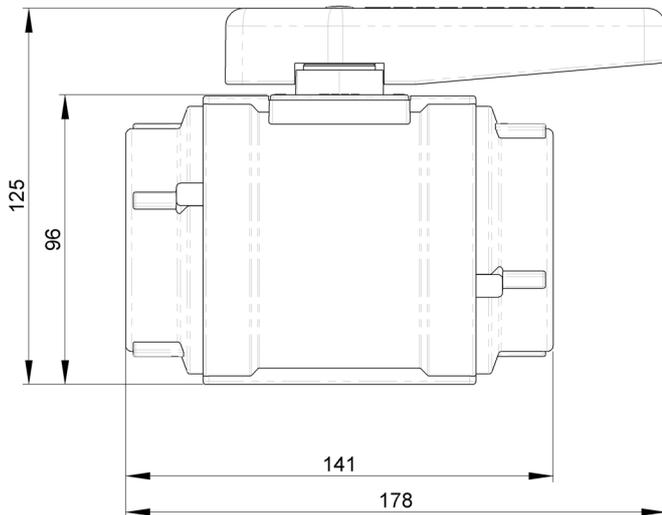
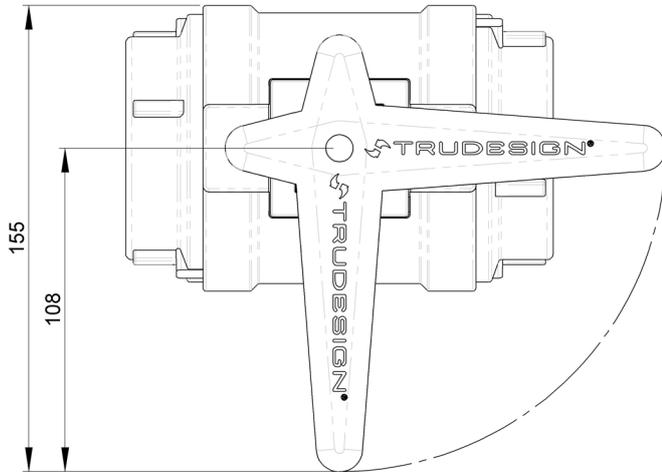
19mm – 1/2" BSP, 3/4" BSP, 1" BSP



32mm – 1¼" BSP, 1½" BSP



52mm – 2" BSP



INSTALLATION

If the valve is to be assembled to a skin fitting, ensure that the position of the skin fitting is such that it will be in a protected area, but readily accessible.

Ensure threads of mating fittings have a parallel thread and it is clean and undamaged.

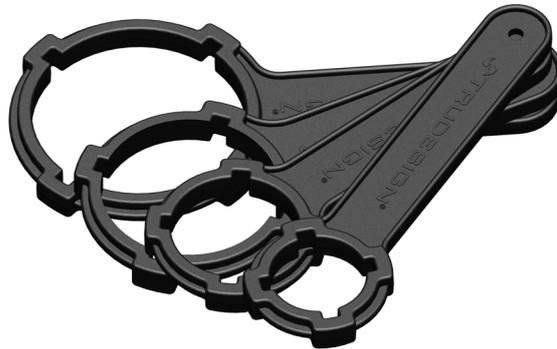
Apply sealing tape to the thread of the Skin Fitting or Tail.

Screw ball valve onto the mating fitting using the correct Ball Valve Spanner (available from Tru-Design), or other appropriate tool.

Tighten any attached fittings 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.

Part #	Description
90476	Spanner Ball Valve ½"
90477	Spanner Ball Valve ¾" & 1"
90478	Spanner Ball Valve 1¼" & 1½"
90479	Spanner Ball Valve 2"



SERVICING

As composite Ball Valves are immune to corrosion, minimal servicing is required.

The Ball Valve should be operated at regular intervals to ensure barnacles etc do not block the operation of the valve.

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