

Position Monitored Ball Valves





TRUDESIGN[™] 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 ³/₄" through to 3"

Excludes the ½" size.

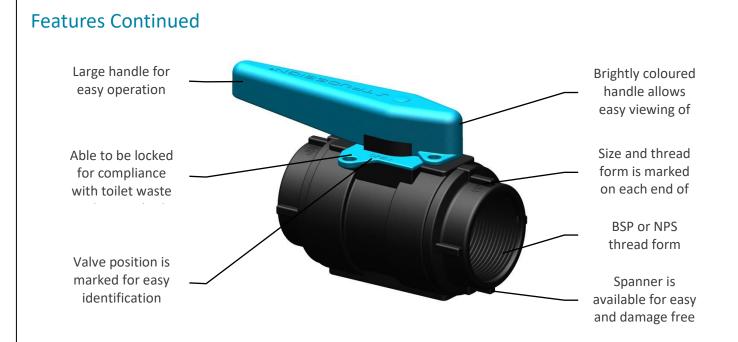
<u>American ABYC H-27 – 500Lb static load test</u> - TRUDESIGN Skin Fittings and Ball Valves meet the American ABYC H-27 – 500Lb static load test; Seacocks, Thru-Hull Fittings, and Drain Plugs – independently verified by IMANNA Laboratory Inc.

For sizes 1¹/₄" 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 ³/₄ 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

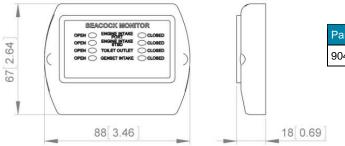
| Internal Diameter | Thread Size | Weight (g) | Weight (oz) | | |
|-------------------|--------------------|------------|-------------|--|--|
| 19mm [¾"] | 1/2", 3/4", 1" | 350 | 12.3 | | |
| 32mm [1¼"] | 1¼", 1½" | 500 | 17.6 | | |
| 52mm [2"] | 52mm [2"] 2" | | 26.4 | | |
| 90412 Panel I | Display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



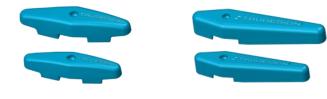
Thread Sealing

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 " T " 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.

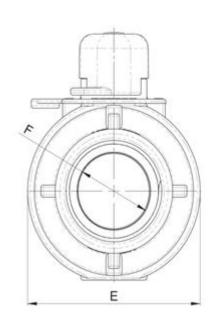


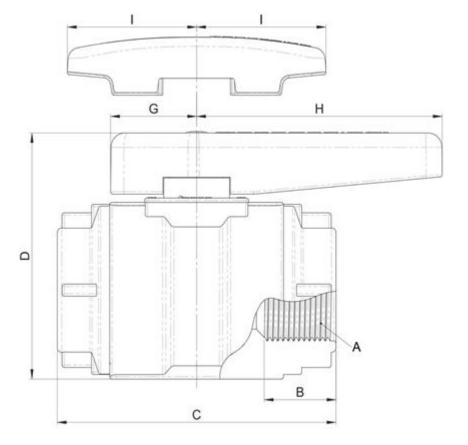


PRODUCT INFORMATION

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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