bluewater

TR1224 Buoy

Standardized Turret Buoy



Turret Buoy standard design

For more than 35 years, Bluewater has successfully designed and delivered very cost effective Turret Buoys to recognized marine terminal operators, oil majors and the preferred choice of our clients. refineries worldwide, to allow offshore and near shore loading and/or offloading tankers of any size. The Turret Buoy is a field proven system showing flexible

operability and extremely low maintenance thanks to its high quality and technology. This system remains Bluewater offers a standard Turret Buoy design, allowing quick turnaround and short delivery times. Standardized options are available.

Flat deck

The Turret Buoy has a flat deck, not obstructed by obstacles or moving parts and is easily accessible via the boat landing area, which is designed to moor any work boat alongside the buoy.

Deckhouse

The Turret Buoy is provided with a deckhouse. The main bearing and other mechanical and electrical components are located inside the deckhouse. This lay-out enables the client to operate the buoy with extremely low

Hose system

Hose system connection to midship manifold of vessel allows the transfer of fluids of any kind and size, from Handymax to VLCC.

Hawser

The hawser loads and incidental tanker-buoy contact loads (if these occur) are transferred into the strong buoy body. The buoy body and its added water mass (water around the buoy body) absorb these loads, protecting the main bearing from high incidental loads

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PLEM & Mooring

Optional the pipeline end manifold (PLEM) and anchor point, are part of Bluewater Turret Buoy scope of supply. The PLEM is outfitted with valves to enable the operator to isolate the pipelines and/or risers for operation and

Specifications TR1224

Buoy & Tanker

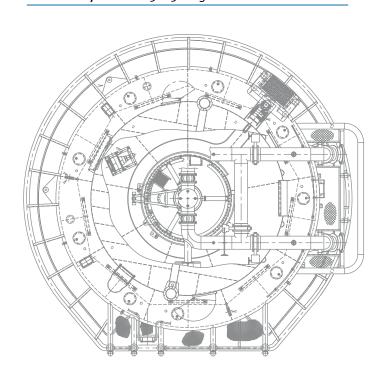
2m .4m 5 x 1 leg
5 x 1 leg
)
4 inch – ANSI 300 lbs flanges
ncluded
50 Tincl. ballast
rom Handymax to ULCC
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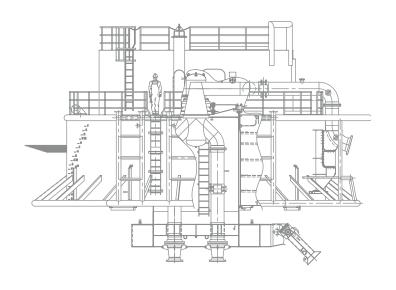
Product transfer

Number of flow paths	Dual product Paths
Swivel size	36 inch
Type of liquids	Stabilized crude and refined
	hydrocarbon products
Design temperature	-5 to 85 degrees
Pressure rating	Compatible with ANSI 300 lbs
Piping and valve class	ANSI Class 300 lbs

Environment

Water depth	20-100m
Ambient temperature	-5 to 50 degrees





Installation aids

Chain tensioning	Hydraulic winch
Working load	10,000 kg on 3 rd layer
Line speed	10m/min on 1 st layer
Wire on drum	85m, 20mm cable in 3 layers
Power pack	No (available from installation vessel)

Buoy options

Surge Tanks, including surge valves
prevent excessive pressure during a
surge event
Hawser Load Monitoring System, which
monitors the hawser load and emits an
audible and visible signal if a certain
load limit is exceeded.
Hydraulic Pressure Unit (HPU) to
operate the PLEM Valves

Optional system components

Mooring system	Mooring legs, Anchors and Hawser
	arrangement
Hoses	Submarine and Floating Hose
	arrangement
PLEM	Pipeline End Manifold
Extended Buoy Control	Telemetry System to monitor and
	operate the SPM system
Umbilical	Hydraulic link between SPM and PLEM
	to operate PLEM valves



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References

