



# WaterWeights

A Unique Group Company



**Water filled test bags**

**Load testing equipment**

**Load measuring devices**



**Unique Group**

Strength in Depth

## WATER WEIGHTS® Water Filled Proof Load Bags

# Low Headroom Type Water bags

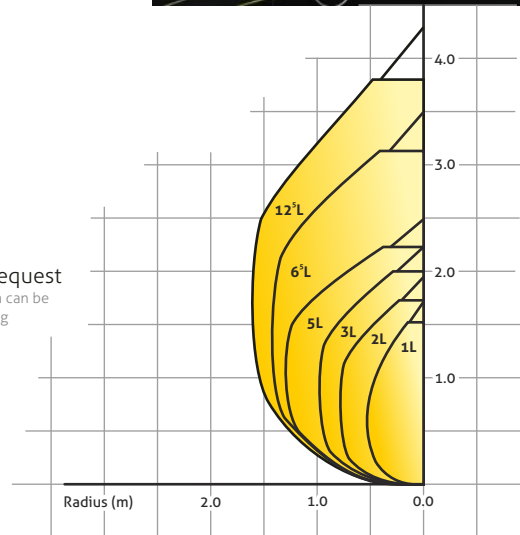
WATER WEIGHTS® water filled proof load bags are a well proven method for testing cranes, beams, davits or any lifting equipment. For smaller test loads where the available height is restricted our Low Headroom type are a flexible solution for the job. The slightly wider body allows the bag to have a shorter design, resulting in a bigger test load within less height.

Several types between 1.0 and 12.5 metric tonnes are available in our Low Headroom range. These bags are designed for use of only one bag at each lifting point. Using special designed spreaders, multiple bags could be combined to achieve all kinds of test loads.



## Technical Data

Branding:	WATER WEIGHTS®
Safety factor:	NEL Certified 6:1
Proof loaded:	All bags physically tested 2:1
Filling connection:	Standard Storz 2.5" - other on request <small>Some older types without filling connection can be easily filled through the top pf the water bag</small>
Skin material:	PVC coated, Polyester fibre canvas
Max wind speed:	25 knots



General		When stored / transported			When in use		
Type No	SWL	L x W x H	Packed Weight	Net Weight	Empty height	Filled height	Filled max dia.
BS 01L	1.0 t	0.80 x 0.60 x 0.80 m	40 kg	23 kg	2.40 m	2.30 m	1.20 m
BS 02L	2.0 t	0.80 x 1.20 x 0.80 m	95 kg	45 kg	2.50 m	2.10 m	1.90 m
BS 03L	3.0 t	0.80 x 1.20 x 0.80 m	100 kg	65 kg	3.10 m	2.50 m	2.00 m
BS 05L	5.0 t	0.80 x 1.20 x 0.80 m	130 kg	95 kg	3.50 m (3.10 m)	3.10 m (2.60 m)	2.70 m
BS 065L	6.5 t	1.00 x 1.20 x 0.80 m	150 kg	115 kg	4.00 m	3.50 m	2.70 m
BS 125L	12.5 t	1.00 x 1.20 x 0.80 m	185 kg	150 kg	4.80 m	4.30 m	3.20 m

**Note:** If bags are filled to less than full capacity, diameters will reduce and the lengths will increase.

**Note:** Low headroom bags are designed for use on their own, hanging multiple Low Headroom bags from one single point will cause significant loss of capacity.

## WATER WEIGHTS® Water Filled Proof Load Bags

### Standard Water bags

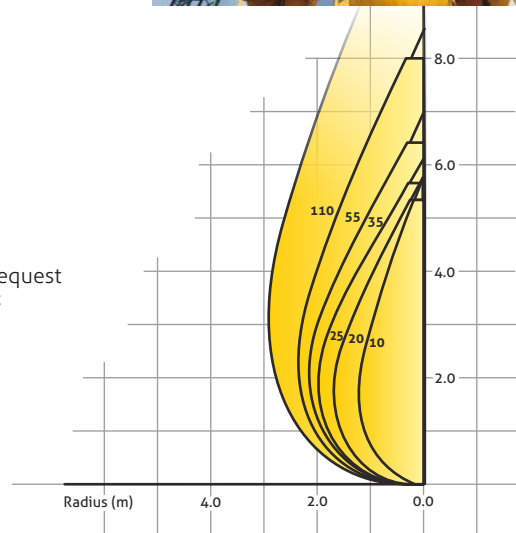
WATER WEIGHTS® water filled proof load bags have become standard equipment for load testing in several industries. Water is the ideal resource for testing all kinds of load-bearing structures - it's available everywhere. The idea is simple, safe and adaptable, which means you can deploy it practically anywhere - indoors and out, on and offshore.

WATER WEIGHTS® water filled proof load bags are available up to 110t capacity. Combining multiple bags and specially designed beams means that tests up to hundreds of tonnes can be achieved. For larger load tests or advanced layouts our service team can assist with the engineering and rigging.



### Technical Data

Branding:	WATER WEIGHTS®
Safety factor:	NEL Certified 6:1
Proof loaded:	All bags physically tested 2:1
Filling connection:	Standard Storz 2.5" - other on request 55t and 110t bags are fitted with two filling connections to increase filling speed
Skin material:	PVC coated, Polyester fibre canvas
Max wind speed:	25 knots



General		When stored / transported			When in use		
Type No	SWL	L x W x H	Packed Weight	Net Weight	Empty height	Filled height	Filled max dia.
BS 10S	10 t	1.00 x 1.20 x 0.80 m	180 kg	140 kg	6.10 m	5.80 m	2.50 m
BS 20S	20 t	1.20 x 1.50 x 0.90 m	300 kg	230 kg	6.20 m	5.80 m	3.50 m
BS 25S	25 t	1.20 x 1.50 x 0.90 m	310 kg	240 kg	6.60 m	6.10 m	3.80 m
BS 35S	35 t	1.20 x 1.50 x 1.00 m	410 kg	340 kg	7.60 m	7.00 m	4.20 m
BS 55S	55 t	1.20 x 1.50 x 1.20 m	590 kg	520 kg	9.90 m	9.40 m	4.40 m
BS 110S*	110 t	1.60 x 1.80 x 1.80 m	1600 kg	1200 kg	13.00 m	12.00 m	5.90 m

**Note:** If bags are filled to less than full capacity, diameters will reduce and the lengths will increase.

**Note:** Bags can be combined in groups of three bags from a single point. In case more bags are required from a single point special rigging should be used.

**Note:** \* 110t bags will only be rented out accompanied by a trained Water Weights engineer.

## WATER WEIGHTS® Water Filled Proof Load Bags

### Life boat & Gangway test bags

WATER WEIGHTS® have developed specially designed water filled proof load bags in cylindrical shape to test life boats and small gangways. Two basic types are available:

The LB type bags ( for life boats) are smaller and easy to fit inside most types of life boats and are supplied in a set, complete with accessories for remote filling and draining. This way access to the life boat is not needed in the dangerous overload situation.

The GT type bags are specially designed for best fit on standard gangways and accommodation ladders to test to the highest standards.

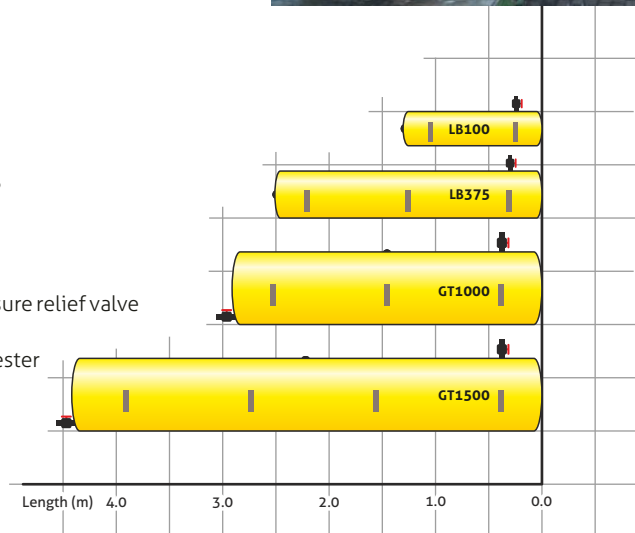


### Technical Data

Branding: WATER WEIGHTS®  
 Tolerance: ±3% of capacity  
 Filling connection LB type: Male 1" Camlock  
 Filling connection GT type: Male 2" Camlock  
 Fitted with: Anchor tabs, Pressure relief valve

Skin material: PVC coated, Polyester fibre canvas

Set accessories: Draining air pump  
 For items marked with \* in table below 9- way manifold  
 Set of 1" hoses



General		When stored / transported				When in use		
Type No	Capacity	L x W x H	Set includes	Set weight	Empty weight	Bag diameter	Filled length	Set Capacity
LB 100	100 kg	0.80 x 1.20 x 1.00 m	20 pcs*	210 kg	6 kg	0.32 m	1.30 m	2000 kg
LB 375	375 kg	0.80 x 1.20 x 1.00 m	8 pcs*	170 kg	10 kg	0.44 m	2.50 m	3000 kg
		0.80 x 1.20 x 1.20 m	16 pcs*	290 kg	10 kg	0.44 m	2.50 m	6000 kg
GT 1000	1000 kg	1.10 x 0.40 x 0.30 m	N/A		17 kg	0.68 m	2.90 m	N/A
GT 1500	1500 kg	1.10 x 0.50 x 0.30 m	N/A		21 kg	0.68 m	4.30 m	N/A

**Note:** The capacities are based on the bag being filled with sea water (density 1.025 kg/L)

**Note:** GT bags are fitted with two filling/draining connections with valves, to increase filling and draining speed.

## WATER WEIGHTS® Water Filled Proof Load Bags

### Floor testing water bags

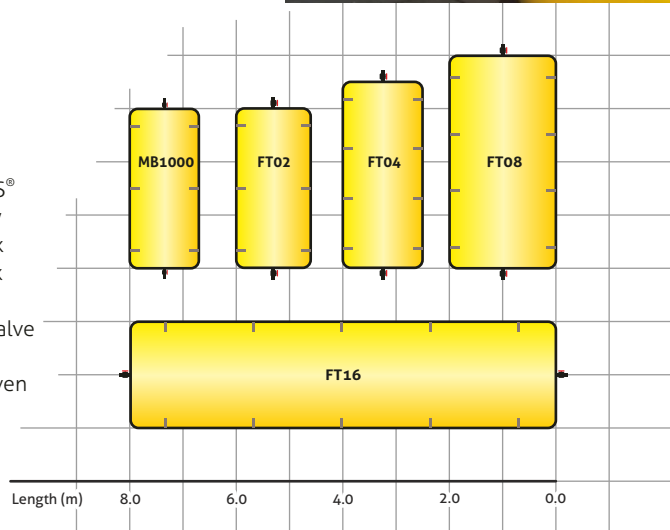
WATER WEIGHTS® bags are an ideal way to apply proof load to platforms, floors, bridges, elevators, hydraulic loading ramps or decks. Inclining tests have also been done using this type. The bags weigh less than 1% of their capacity, making handling and transport very cost effective.

Gradual increase of the load can more easily be achieved using water filled bags than using solid weights. Special combinations of different types might result up to 1000kg/m<sup>2</sup>. The amount of water in the bags is measured by a calibrated flow track meter. Eventually the object to be tested can also be placed on a set of load cells to monitor the total weight or the changing center of gravity.



### Technical Data

Branding: WATER WEIGHTS®  
 Tolerance: ±3% of capacity  
 Filling connection MB type: Male 1" Camlock  
 Filling connection FT type: Male 2" Camlock  
 Fitted with: Anchor tabs, Pressure relief valve  
 Skin material: PVC coated, Woven Polyester Fibre



Type No	General Capacity	When stored / transported		When in use			
		L x W x H	Empty weight	Length	Width	Height	Max. floor load
MB 1000	1000 kg (1500 kg)	0.50 x 0.30 x 0.30 m	10 kg	3.00 m	1.30 m	0.30 m (0.80 m)	300 kg/m <sup>2</sup> (450 kg/m <sup>2</sup> )
FT 02	2000 kg	0.60 x 0.40 x 0.40 m	16 kg	3.00 m	1.40 m	0.50 m	500 kg/m <sup>2</sup>
FT 04	4000 kg	0.80 x 0.40 x 0.40 m	40 kg	3.50 m	1.50 m	0.80 m	750 kg/m <sup>2</sup>
FT 08	8000 kg	1.00 x 0.80 x 0.80 m	60 kg	4.00 m	2.00 m	1.00 m	1000 kg/m <sup>2</sup>
FT 16	16000 kg	1.40 x 0.45 x 0.45 m	90 kg	8.00 m	2.00 m	1.00 m	1000 kg/m <sup>2</sup>

**Note:** MB1000 and FT04 are available from our local stock, other types are available from other WW stocks, for which we need a few days to mobilise.  
**Note:** The MB type (mattress bags) are designed to contain 1000kg in Mattress shape, with an approximate height of 0.30 m, however they can be filled to approx 1500kg maximum capacity each.

## Load measuring equipment

# Standard Load Links

Water Weights stocks a large quantity of standard and non-standard load and strain measuring units in our rental stock.

A standard load cell set consists of a load link with two shackles, readout accessories and a transport case. We can supply both cabled (KR type, steel) and wireless (LE type, aluminium) links and guarantee a weighing accuracy of less than 1.5%. The LE type telemetry load cells are ultra-light weight aluminium links.

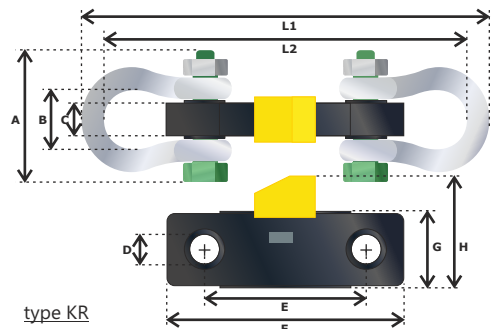
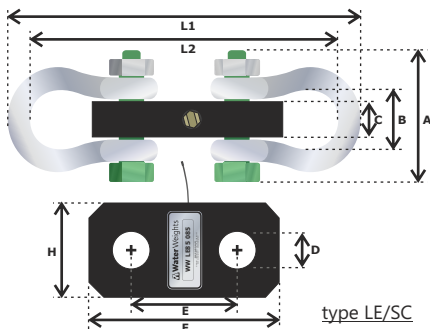
RS 232 data output and load data logging function is available on request.



## Dimensions

- \* Weight 1: Weight of the load link only (without shackles)
- \*\* Weight 2: Weight of complete packed set (with shackles and accessories)
- \*\* Shackles: We use standard GreenPin (type G-4163 or P-6036) shackles for our load links.

	A	B	C	D	E	F	G	H	L1	L2	Wt 1*	Wt 2*	Shackles**	Cap.	Resol.	Wireless
<b>KR 1.5</b>	83	32	19	16	140	180	60	80	283	261	1,3 kg	11 kg	2.0t GP	<b>1.5t</b>	0.001	No
<b>KR 5</b>	131	58	38	26	160	123	68	140	390	355	3,5 kg	18 kg	6.5t GP	<b>5t</b>	0.01	No
<b>LE 5</b>	151	68	42	30	108	165	-	105	380	330	1,4 kg	13 kg	8.5t GP	<b>5t</b>	0.01	Yes
<b>KR 10</b>	179	83	39	40	200	290	87	170	530	460	6,0 kg	27 kg	12t GP	<b>10t</b>	0.01	No
<b>LE 12</b>	179	83	42	37	120	210	-	105	450	385	2,0 kg	19 kg	12t GP	<b>12t</b>	0.01	Yes
<b>KR 20</b>	244	126	59	60	280	410	130	215	790	700	18 kg	58 kg	25t GP	<b>20t</b>	0.1	No
<b>LE 25</b>	244	126	58	53	131	255	-	125	660	570	4,0 kg	37 kg	25t GP	<b>25t</b>	0.01	Yes
<b>KR 35</b>	270	138	70	70	345	490	150	240	900	810	28 kg	83 kg	35t GP	<b>35t</b>	0.1	No
<b>LE 35</b>	270	138	58	60	147	305	-	158	702	612	5,3 kg	50 kg	35t GP	<b>35t</b>	0.01	Yes
<b>KR 50</b>	330	180	80	80	410	600	180	270	1130	1010	50 kg	152 kg	55t GP	<b>50t</b>	0.1	No
<b>LE 50</b>	330	180	80	73	170	345	-	150	893	763	8,8 kg	105 kg	55t GP	<b>50t</b>	0.01	Yes
<b>LE 85</b>	376	190	100	85	190	410	-	186	1085	935	16 kg	165 kg	85t GP	<b>85t</b>	0.1	Yes
<b>KR 100</b>	440	238	120	100	225	455	-	220	1260	1080	27 kg	265 kg	120t GP	<b>100t</b>	0.1	Yes
<b>LE 150</b>	490	275	130	115	255	555	-	260	1380	1180	43 kg	380 kg	150t GP	<b>150t</b>	0.1	Yes
<b>SC 150</b>	490	275	130	120	420	680	-	248	1550	1340	36 kg	380 kg	150t GP	<b>150t</b>	0.1	Yes
<b>LE 200</b>	600	310	190	145	350	680	-	300	1820	1560	87 kg	700 kg	250t GP	<b>250t</b>	0.1	Yes
<b>KR 250</b>	600	310	120	140	540	770	270	370	1940	1680	131 kg	740 kg	250t GP	<b>250t</b>	0.1	No
<b>LE 250</b>	600	310	190	145	350	680	-	304	1820	1560	87 kg	700 kg	250t GP	<b>250t</b>	0.1	Yes





## Load measuring equipment

# Standard Load Shackles

Water Weights has equipment for several types of load measuring on stock. One of those are the load shackles, for tension load measurement.

A load shackle is basically a standard shackle with the measuring device built inside its pin. Our load shackle sets consist of a shackle with load-pin, readout accessories and a transport case for all accessories. Load data logging function is available on request.

This way of load measuring is available from 17 up to 800 tonne. Most units are wireless radio telemetry systems, except the 75 and 300 tonne units\*, which have a cabled readout.



## Dimensions

Type	A	B	C	D	E	F	G	H	I	Weight
<b>17 t</b>	183	99	38	73	136	220	145	263	60	13 kg
<b>75 t*</b>	335	191	76	122	270	450	320	525	130	70 kg
<b>300 t*</b>	360	300	140	200	450	640	570	880	270	450 kg
<b>400 t</b>	670	330	170	220	520	850	620	1130	290	700 kg
<b>500 t</b>	710	350	180	235	570	750	670	1220	310	800 kg
<b>800 t</b>	820	400	210	285	700	900	720	1300	380	1300 kg

\* Marked items are cabled units, unmarked items are radio telemetry

