



## HINGED BOLTED FLOATS

Floatex Hinged Bolted Floats are designed to provide buoyancy to submarine hose lines in order to maintain the proper flotation requirement for different style hoses and to guarantee the underwater configuration.

The floats are composed by two halves made in UV-stabilized linear virgin polyethylene. The Polyethylene used in the manufacturing process is completely recyclable (Eco-Friendly), it's fully compatible with the marine environment, and has a high resistance to UV rays. Being linear has the advantage that it can be melted and hence repaired by hot fusion welding.

The colour pigment is moulded-in and consequently not added as a coating, ensuring greater life of the colour and a big help to the environment as it never requires additional paintings, avoiding toxic dispersions in the water. Floatex polyethylene requires a minimal maintenance.

R&D laboratory daily perform tests on production samples such as tensile test, hardness test, abrasion test, UV test and Cold temperature test, colour test and other ordinary tests in the aim to ensure the quality and the reliability of Floatex polyethylene.

The floats are filled with closed-cell polyurethane foam with different density in base of the hydrostatic pressure the floats need to withstand. The polyurethane foam ensure great resistance to the leakage of air or water, ensuring unsinkability to the buoy also in case of accidental breaks of the outer shell.

The polyurethane foam is 100% made and tested before production by our R&D laboratory.

The two halves are hinged together at one side, and bolted at the other side to ensure optimal clamping with the pipe and facilitate the installation on side even in sub-sea operations.

All the metal parts are in AISI 316 stainless steel. All the floats are clearly marked and registered in accordance to current norms and established regulations. These floats are duly tested in accordance to our internal Quality Control and Quality Assurance procedures, and conforming to GMPHOM specifications and requirements.



Test certificates are issued following final test results. Floatex Hinged Bolted floats are splitted in two main categories in base of the operative water depth, 0-40mt and 40-80mt.

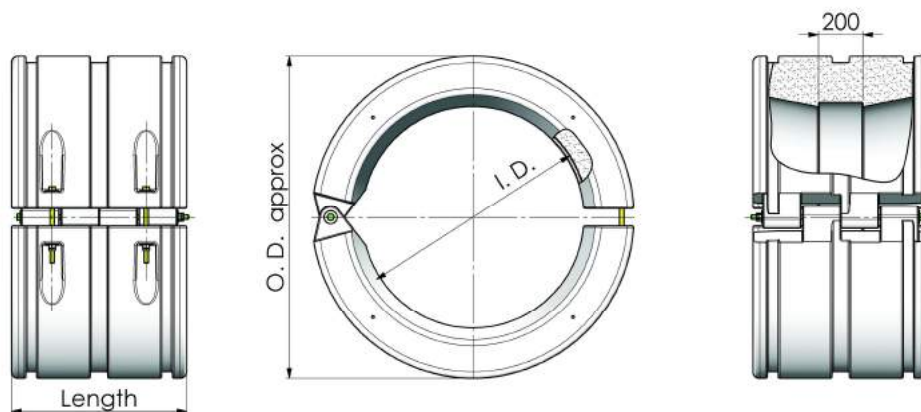
Clearly Floatex floats are able to withstand also deeper water depths upon request of the client.

Floats can be ballasted to add weight at pipeline or to ensure neutral buoyancy to the float itself

## HINGED BOLTED FLOATS

Nominal diameter in accordance with GMPHOM 2009							
FLOAT TYPE	SIZE			WATER DEPTH			
	O. D. (mm)	I. D. (mm)	Length (mm)	0 - 40 m		40 - 80 m	
				Weight (Kg)	N.B. (Kg)	Weight (Kg)	N.B. (Kg)
24" HE-S	1470	1050	800	140	468	180	428
24" HE-D	1350	946	800	140	427	172	395
24" HE	1350	876	600	114	350	139	325
24" HB	1230	799	600	94	270	110	254
20" HE-S							
20" HE	1130	697	600	84	230	102	212
16" HE-S	1050	581	550	74	215	93	196
12" HB-E	710	471	550	38	70	44	64
12" HB	692	420	550	37	71	43	65
10" HE							
10" HB	650	370	400	26	56	31	51
8" HE							
8" HB	580	310	400	23	47	27	43
6" HE							
6" HB	650	270	550	38	104	45	97

Note:  
 Dimensions and weights are nominal  
 Tolerance:  $\pm 5\%$  on weight ---  $\pm 5\%$  on buoyancy  
 Other dimensions are available on request.

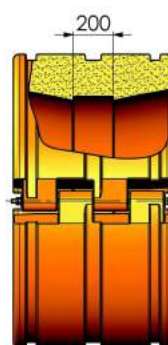
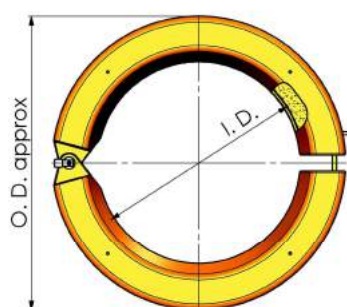


**FLOATEX**

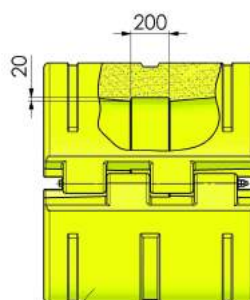
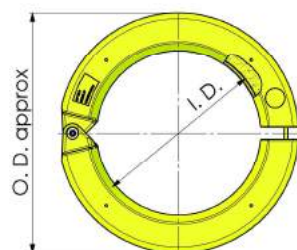
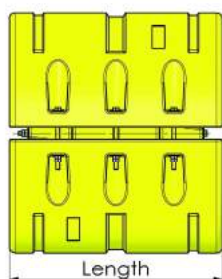
[www.floatex.com](http://www.floatex.com)



Nominal diameter out of GMPHOM 2009							
FLOAT TYPE	SIZE			WATER DEPTH			
	O. D. (mm)	I. D. (mm)	Length (mm)	0 - 40 m		40 - 80 m	
				Weight (Kg)	N.B. (Kg)	Weight (Kg)	N.B. (Kg)
20" HB	1050	630	550	76	198	88	186
16" HE							
16" HB	920	520	550	60	156	66	150
12" HE							
12" HB-S	850	490	500	51	124	60	115



Nominal diameter out of GMPHOM 2009 - Series FLAT							
FLOAT TYPE	SIZE			WATER DEPTH			
	O. D. (mm)	I. D. (mm)	Length (mm)	0 - 40 m		40 - 80 m	
				Weight (Kg)	N.B. (Kg)	Weight (Kg)	N.B. (Kg)
24HE-F	1240	956	1100	150	371	162	359
24HB-F	1240	886	1100	162	432	172	422



"SANDWICH" CONSTRUCTION SHELL

ROTO MOULDED  
INNER CLOSURE  
SHELL

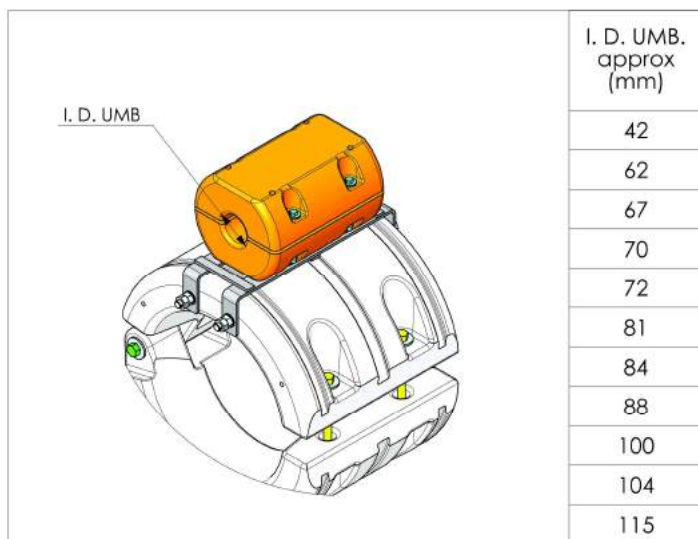
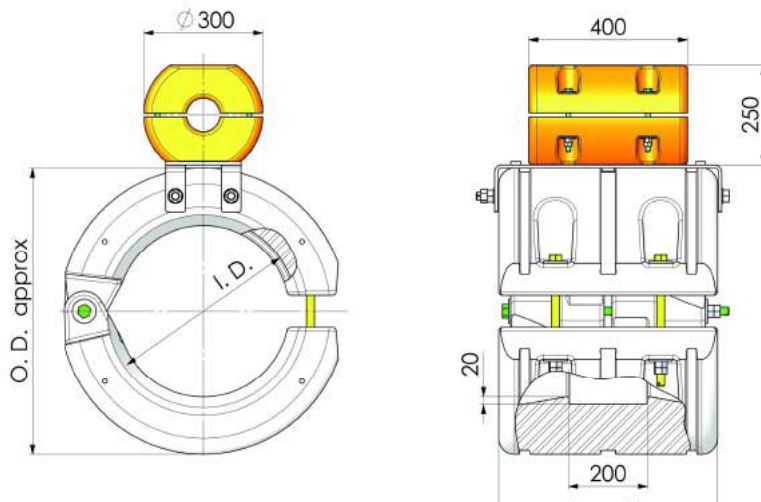
ROTO MOULDED  
OUTSIDE PE SHELL

ROTO MOULDED  
EXPANDED PE  
INNER FOAM CORE



## HINGED BOLTED FLOATS

Nominal diameter in accordance with GMPHOM 2009 with umbilical							
FLOAT TYPE	SIZE			WATER DEPTH			
	O. D.	I. D.	Length	40m		80m	
	(mm)	(mm)	(mm)	With Umbilical		With Umbilical	
				Weight (Kg)	N.B. (Kg)	Weight (Kg)	N.B. (Kg)
24" HE-S	1470	1050	800	178	451	218	411
24" HE-D	1350	946	800	178	410	210	378
24" HE	1350	876	600	152	333	177	308
24" HB	1230	799	600	132	253	148	237
20" HE-S							
20" HE	1130	697	600	122	213	140	195
16" HE-S	1050	581	550	112	198	131	179
12" HB-E	720	471	550	73	57	79	51





## HINGED TURNBUCKLE FLOATS

Floatex Hinged Turnbuckle Floats are designed to provide buoyancy to submarine hose lines in order to maintain the proper flotation requirement for different style hoses and to guarantee the underwater configuration.

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R&D laboratory daily perform tests on production samples such as tensile test, hardness test, abrasion test, UV test and Cold temperature test, colour test and other ordinary tests in the aim to ensure the quality and the reliability of Floatex polyethylene.

The floats are filled with closed-cell polyurethane foam with different density in base of the hydrostatic pressure the floats need to withstand. The polyurethane foam ensure great resistance to the leakage of air or water, ensuring unsinkability to the buoy also in case of accidental breaks of the outer shell. The polyurethane foam is 100% made and tested before production by our R&D laboratory.

The two halves are hinged together at one side, and fastened at the other end by means of an adjustable turnbuckle device to ensure optimal clamping with the pipe. All the metals parts are in AISI 316 stainless steel.

All the floats are clearly marked and registered in accordance to current norms and established regulations. These floats are duly tested in accordance to our internal Quality Control and Quality Assurance procedures, and conforming to GMPHOM specifications and requirements. Test certificates are issued following final test results.



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