HOSE FLOAT COLLARS

Hosefloats, an industry standard for the floatation of hoses, conduit and cables for dredging, mining and marine applications.

An easy to install solution that allows pipes and hoses to bend and flex, while maintaining low resistance to waves, wind and current. Also available without rubber discs in sizes greater than 160mm.

- Dimensions and weights are nominal
- Manufactured from polyethylene
- Recyclable and VOC Free
- Stainless Steel assembly kits for corrosive environments are available at an additional cost
- Standard colour is yellow, red or orange
- Other colours are available on request
- Australian made and designed
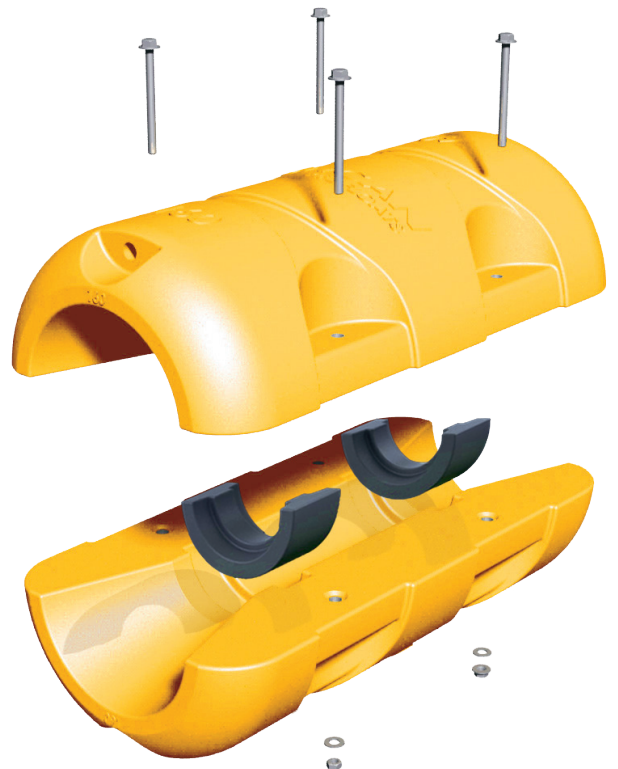- Specifications are subject to change without notice

ADDITIONAL SPECIFICATIONS

A hosefloat set comprises:
- 2 hosefloat halves
- 4 variable EPDM rubber bushes

A galvanized assembly kit which includes:
- 4 bolts
- 4 nuts
- 8 washers

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OIL & GAS

26/04/2018

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HOW MANY FLOATS DO I NEED?

The weight of the hose in the water is different to the weight in the air, so it is necessary to calculate the **UWW (Under Water Weight)** by the following formula.
(from GMPHOM '09-Guidelines from the oil and marine forum for hoses, supported by Bassi Offshore)
UWW(kg)= DH - (WH + WW).

DH (Kg) = Weight of seawater displaced by hose when fully submerged including seawater displaced inside hose bore. We normally adopt the specific density of seawater of 1.025 kg/dm3. To calculate this displacement, you have to know the volume of the hose which can be calculated using the same formula for the volume of a cylinder, $V=\varpi r2h$ (Pi x radius squared x height or length)

WH (Kg) = Weight of empty hose in air including an allowance for the weight of any hardware to be attached to the hose in service such as hose ends, breakaways, dry breaks, float collars and chains.

WW (Kg) = Weight of fluid content in hose (refer to below specific gravity of most common oilfield mediums.

Every float has a specific Net Buoyancy (kg) **(Example HFC100 is 22kg)**.
To calculate the nr of floats in **neutral float condition**, you have to follow:

Nr Float = $\dfrac{\text{UWW}}{\text{NB}}$

If it is needed a certain percentage of buoyancy, you have to follow:

%Buoyancy = $\dfrac{\text{Nr Float x NB x 100}}{\text{UWW}}$

SPECIFIC GRAVITY OF COMMON MATERIALS

MATERIAL	SG	MATERIAL	SG	MATERIAL	SG	MATERIAL	SG
Barite	4.2 - 4.3	Clays (Drilled Solids)	2.5 - 2.7			SAPP	1.862
Bentonite	2.3 - 2.4	CMC	1.59	Lead	11.3	Soda Ash	2.53
Blacknight	1.08	Diesel Fuel	0.84	Lignite	1.5	Sodium Bicarbonate	2.16
Calcium Carbonate	2.7	Dolomite	2.8 - 3.0	Lime (Hot or Quick Lime)	3.2 - 3.4	Sodium Sulfite	2.63
Calcium Chloride (94%)	2.2	Envirofloc	1.12	Lime (Hydrated)	2.34	Starch	1.5
Calcium Chloride (Flake)	1.85	Feldspar	2.4 - 2.7	Limestone	2.7 - 2.9	Steel	7.8
Calcium Lignosulfonte	1.53	Galena	6.5 - 6.7	Potassium C hloride	1.99	Water (Fresh)	1
Calcium Oxide (Hot Lime)	3.4	Gypsum	2.9	Pyrite	5.02	Water (Sea)	1.2
Calcium Sulfate	2.96	HEC 10 Polymer	1.38 -1.40	Quartz	2.65	X-Pel-G	1.06
Caustic Potash	2.044	Hematite	5.26	Salt	2.165	Zinc Carbonate	4.4
Cement	3.0 - 3.2	Iron	7.8	Salt Gel	2.55		
Citric Acid	1.665	Ironite Sponge	4.9 - 5.3	Sand	2.4 - 2.8		

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HOSE FLOAT SPECIFICATIONS

PRODUCT CODE	DESCRIPTION	DIMENSIONS	COLOUR	WEIGHT (kg)	RESERVE BUOYANCY (kg)	MAX HOSE O.D. (mm)
HFC130	130mm Hose Float Collar yellow w/- EPDM Bush	300d x 600mm	Yellow	7.2	22	130
HFC160	130mm Hose Float Collar yellow w/- EPDM Bush	460d x 900mm	Yellow	9.6	132	160
HFC200	200mm Hose Float Collar orange	460d x 900mm	Orange	9.6	106	200
HFC213	213mm Hose Float Collar orange	460d x 900mm	Orange	9.6	100	213
HFC225	225mm Hose Float Collar orange	460d x 900mm	Orange	9.6	80	225
HFC250	250mm Hose Float Collar orange	670d x 1000mm	Orange	18	240	250
HFC280	280mm Hose Float Collar orange	670d x 1000mm	Orange	18	230	280
HFC315	315mm Hose Float Collar orange	670d x 1000mm	Orange	18	212	315
HFC355	355mm Hose Float Collar orange	670d x 1000mm	Orange	18	200	355
HFC400	400mm Hose Float Collar orange	1150d x 1160mm	Orange	80	700	400
HFC450	450mm Hose Float Collar orange	1150d x 1160mm	Orange	80	680	450
HFC500	500mm Hose Float Collar orange	1150d x 1160mm	Orange	80	660	500
HFC550	550mm Hose Float Collar orange	1150d x 1160mm	Orange	80	620	550
HFC630	630mm Hose Float Collar orange	1150d x 1160mm	Orange	80	560	630
HFCBNSS160	Stainless steel bolt, nut washer set for FC130 & 160					