



Industry

Safe Distribution of Drinking Water



Mandals Aquaman is a lightweight lay-flat hose designed to transfer large volumes of liquids with high working pressures. In addition to its premium abrasion resistance, the hose is designed, tested, and certified for potable water transfer.

Access to clean drinking water is a crucial part of any country's infrastructure and is becoming a challenge in many parts of the world. The use of Mandals Aquaman can help distribute water more evenly, minimizing the amount of water you have to have access to compared to more traditional methods of water transportation. Safety is our top priority in the design of the hose, which ensures clean drinking water and user-friendliness while minimizing the risk of water-borne diseases.

Key Features

- Approved for transfer of potable water.
- Transfer large volumes of liquid with high working pressures.
- Lightweight and easy to deploy.
- Premium abrasion resistance.
- Minimum extension in length and snaking when in use.
- Operating temperature from -50°C to +75 °C (-58°F to +167°F) for pure water.

Design

- Mandals Aquaman is made from extruded thermoplastic polyether based polyurethane (TPU).
- Reinforcement made from circular woven filament polyester yarn.
- The extrusion through the weave production method gives a very strong bonding between cover and lining as well as firmly encapsulating the woven polyester.

Advantages

- Designed, tested and certified for transfer of potable water.
- Excellent abrasion resistance of the TPU material enables the use of very thin and lightweight hoses with large diameters to be quickly and easily deployed.



Aquaman (Technical data)

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Inner diameter		Wall Thickness		Weight		Burst Pressure		Tensile Strength	
Inch	mm	Inch	mm	Lbs / ft	Kg / m	Psi	Bar	X 1000 lbs	Tons
1"	25.4 + 1.6	0.07	1.9	0.13	0.20	725	50	3.3	1.5
1 1/2"	38.0 + 1.6	0.08	2.1	0.20	0.30	655	45	5.8	2.6
2"	51.0 + 2.0	0.09	2.2	0.29	0.44	655	45	7.6	3.4
2 1/2"	65.0 + 2.0	0.09	2.3	0.36	0.58	610	42	9.1	4.1
3"	76.0 + 2.0	0.09	2.4	0.47	0.75	610	42	10.7	4.8
4"	102.0 + 2.5	0.12	3.0	0.72	1.07	520	36	23.1	10.4
5"	127.0 + 2.5	0.12	3.0	0.99	1.48	435	30	26.9	12.1
6"	152.0 + 3.0	0.12	3.0	1.15	1.72	435	30	33.3	15.0
8"	203.0 + 3.0	0.13	3.2	1.53	2.30	380	26	43.8	19.7
10"	254.0 + 4.0	0.13	3.3	2.05	3.08	305	21	65.8	29.6
12"	305.0 + 5.0	0.13	3.4	2.53	3.80	220	15	83.1	37.4

NOTE: Safety BP/WP is 2:1 (50%). For all non-hazard and/or non-flammable liquids.

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