



# AQUATHANE

The ultimate “all terrain” vehicle for moving water and slurry. From emergency response to fracking and manure transfer — Aquathane is a large diameter, lightweight and flexible layflat water delivery solution. This extruded through-the-weave polyurethane hose is reinforced with a high tenacity woven jacket for the ultimate in puncture, abrasion, heat and ozone resistance — engineered to remain service worthy for years to come.

Aquathane offers high working pressure in a variety of diameters from 7 ¼" to 12" and is available in lengths of 660'. Aquathane moves more product in more places, more efficiently than conventional large diameter layflat hose alternatives.



# AQUATHANE POLYURETHANE MAINLINE HOSE

Diameter	Weight Uncoupled	Wall Thickness	Burst Pressure	Max Service	Tensile Strength
7 1/4"	1.70 lbs/ft	0.14"	600 psi	200 psi	54,000 lbs
8"	2.00 lbs/ft	0.15"	600 psi	200 psi	80,000 lbs
10"	2.80 lbs/ft	0.16"	600 psi	200 psi	100,000 lbs
12"	3.40 lbs/ft	0.17"	450 psi	150 psi	120,000 lbs

Maximum working pressure = 3x safety margin

## Hose Construction

Hose shall be made from 100% high tenacity synthetic polyester yarn, circularly woven and totally encased in an extruded through-the-weave polyurethane cover and lining. This rugged one-piece construction will be manufactured without glues and/or adhesives of any type and engineered not to delaminate and to be resistant to fuels, chemicals, heat, weather, ultraviolet light and abrasion. Hose should feature a smooth polyurethane outer cover for easy drag and rapid deployment. Hose shall also carry a 2-year written warranty against defects in materials and workmanship.

## Lining Properties

**Tensile Strength** - The lining shall not be less than 1200 psi.

**Elongation** - In accordance to UL-19 using certified tensile test apparatus, a small dumbbell sample of lining shall elongate a minimum of 400%.

**Accelerated Aging Test** - The tensile strength and ultimate elongation of the polyurethane compound, which has been subjected to the action of oxygen at a pressure of 300 psi ( $\pm 10$  psi) and a temperature of 158 °F ( $\pm 18$  °F) for a period of 96 hours, shall retain 60% of its originally stated properties.

## Physical Properties

**Abrasion Resistance** - Hose shall withstand 10,000 cycles on the Taber Abrasion Machine (H-22 Wheel: 0.5 kg). On request, Key Hose will supply written warranties that Aquathane meets a minimum 10,000 cycles. Other abrasion test results (UL, DIN, etc.) can be supplied on request of purchaser.

**Cold Resistance** - Hose shall have a capability of use down to -35 °F. Hose shall have no apparent damage to cover, reinforcement or lining when subjected to the following cold bending test: a 50' length of dry hose is to be firmly coiled and placed in a cold box at -35 °F for a duration of 24 hours. Immediately after removal of the hose from the box, hose should be uncoiled and laid out by one operator. Following this procedure, the hose shall not leak nor show any damage to the reinforcement when subjected to the hydrostatic acceptance test.

**Ozone Resistance** - Hose shall show no visible signs of cracking to the lining or cover when tested in accordance to ASTM D518 Procedure B (100 ppm / 118 °F / 70 hours).

**Chemical Resistance** - Exposure to sea water and contamination by most chemical substances, hydrocarbons, oils, alkalis, acids and greases must have no effect on the short or long term performance of the hose. A chemical resistance chart is available and Key Hose will supply specific chemical resistance data on request of purchaser for unique applications.

## Couplings

As required and supplied by customer.

## Color



Blue

*Key Hose reserves the right to modify any specification without prior notice to meet or exceed changing standards. For more information please contact a Key Hose authorized distributor. 07/23*



*"The Hose Company"*

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