



AGRIFLEX

When it comes to fluid transfer on the farm and in the field, Agriflex is the layflat agricultural hose solution. Agriflex is a large diameter, lightweight, flexible and compact pumping/dewatering hose alternative. Engineered for longer service life, this extruded through-the-weave PVC/nitrile rubber hose combines a thin rib construction with a high tenacity woven jacket for the ultimate in puncture, abrasion and durability. Agriflex affords exceptional working pressure — due in part to its unique synthetic textile core. Offered in a variety of diameters from 6" to 10" in lengths up to 660', Agriflex is a tried and true solution to supply liquid manure to injection hose applications.



AGRIFLEX RUBBER DISCHARGE HOSE

Diameter *Inside Dia.	Weight Uncoupled	Wall Thickness	Burst Pressure	Max Service	Bend Radius @ 70 psi	Tensile Strength
6" (*6 ³ / ₁₆ ")	1.35 lbs/ft	0.14"	750 psi	250 psi	6.4'	37,800 lbs
7" (*7 ¹ / ₁₆ ")	1.85 lbs/ft	0.14"	600 psi	200 psi	7.6'	51,800 lbs
8" (*8 ³ / ₁₆ ")	2.35 lbs/ft	0.16"	500 psi	200 psi	10.0'	52,200 lbs
8" HD (*8 ³ / ₁₆ ")	2.60 lbs/ft	0.17"	550 psi	250 psi	7.6'	52,200 lbs
10" (*10 ¹ / ₁₆ ")	3.30 lbs/ft	0.17"	450 psi	150 psi	9.2'	83,400 lbs

Hose Construction

Agriflex is made from 100% high tenacity synthetic polyester yarn, circularly woven and completely protected by an extruded through-the-weave PVC/Nitrile rubber, forming a single homogeneous construction without the use of glues or adhesives of any type. Agriflex features a thin rib construction to aid abrasion resistance with oversized ID designed to fit most couplings. Agriflex shall carry a 2-year written warranty against defects in materials and workmanship. Lengths are available up to 660'.

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 vulcanized rubber compound, which has been subjected to the action of oxygen at a pressure of 300 psi (±10 psi) and a temperature of 158 °F (±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 Agriflex 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.

Heat Resistance - The hose, when subjected to a static pressure of 100 psi, shall be capable of withstanding a surface temperature of 1200 °F for a minimum of one minute without rupture or damage to the synthetic reinforcement.

Couplings

As required and supplied by customer.

Colors



Nato Green

Red

Nato Green available in 6", 8" and 10". Red available in 7" and 8" HD.



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. 06/17