



"The Hose Company"

Dura Flow - Product Specification

DURA FLOW

rubber covered attack hose

- Nitrile/PVC through-the-weave rubber covered construction
- UL Listed
- NFPA compliant attack hose
- Lightweight
- Heat resistant
- Chemical resistant
- Maintenance free
- Raised thick rib construction to aid abrasion resistance
- Diameters: 1", 1 1/2", 1 3/4", 2", 2 1/2"



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Hose Construction: Hose shall be made from 100 percent high tenacity synthetic polyester yarn, circularly woven and completely protected by a through-the-weave extruded PVC/Nitrile rubber, forming a single homogeneous construction without the use of glues or adhesives of any type. Dura-Flow features a raised thick rib construction to aid abrasion resistance. Dura-Flow exceeds all requirements of NFPA 1961. Dura-Flow shall carry a 10 year written warranty against defects in materials and workmanship.

Lining Properties:

Ultimate Tensile Strength - Tensile strength of the lining and cover shall not be less than 1200 PSI.

Ultimate Elongation - 400% minimum.

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 $158^{\circ}(\pm 18^{\circ}\text{F})$ for a period of 96 hours shall retain 60 percent of its originally stated properties.

Abrasion Resistance: Hose shall withstand 10,000 cycles on the Taber Abrasion Machine (H-22 Wheel: 1/2 kg). Key Hose on request will supply written warranties that DURA-FLOW hose 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 ft. 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 stated above.

Ozone Resistance: Hose shall show no visible signs of cracking to the lining or cover when tested in accordance to ASTM D518 Procedure B (100pphm/ 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.

Color: Standard colors shall be HI-VISIBILITY yellow or red. Other colors available are: blue, orange, and green upon special request.

Performance: The minimum burst test pressure, when tested in accordance to NFPA 1961, on all Dura Flow diameters shall be 900 PSI/62 Bar. Service test pressures stenciled on the hose shall be in accordance with current minimum requirements of NFPA 1962. A valid USA/ULC Underwriters 500 PSI/34 Bar listing shall be in force. Lengths available up to 300 feet.

Couplings: Dura-Flow shall be coupled with 6061-T6 USA manufactured extruded aluminum threaded couplings. Special threads or other custom features available upon request.

Key Hose reserves the right to modify any specification without prior notice to meet or exceed changing standards. Customers are advised special diameters or construction characteristics may be produced by special request. For more information please contact a Key Hose authorized distributor.

***UL Listed**

Performance Chart

Size	Part No.	Service Test	Proof Test	Burst Test	Bowl Size	Weight/ft. Uncoupled
1"	RC10-600	300 psi	600 psi	900 psi	1 $\frac{3}{16}$ "	.20 lbs.
1 $\frac{1}{2}$ "	RC15-600	300 psi	600 psi	900 psi	1 $\frac{13}{16}$ "	.24 lbs.
*1 $\frac{3}{4}$ "	RC17-600	300 psi	600 psi	900 psi	1 $\frac{15}{16}$ "	.28 lbs.
2"	RC20-600	300 psi	600 psi	900 psi	2 $\frac{1}{4}$ "	.32 lbs.
*2 $\frac{1}{2}$ "	RC25-600	300 psi	600 psi	900 psi	2 $\frac{13}{16}$ "	.48 lbs.