



Pro-Flow Specification Sheet

• Rubber Covered Hose

- 1½", 1¾", 2", 2½" and 3"

► Scope

Quality: The fire hose assembly supplied under this specification shall be constructed with superior quality materials. NFPA 1961 standards shall be observed in production of the assembly, in order to ensure its quality and durability.

Warranty: Pro-Flow hose shall carry a 5 year warranty against defects in material and workmanship. Barring any mistreatment or accidental damage the warranted hose will be replaced at no charge.

► Hose Construction

Hose shall be made from 100 percent high tenacity synthetic yarn, circularly woven and completely protected and locked-in by tough highly resistant synthetic nitrile rubber, forming a single homogeneous construction without the use of glues or adhesives of any type.

► Lining Properties

Ultimate Tensile Strength: Tensile strength of the lining and cover shall not be less than 1500 PSI.

Ultimate Elongation: 400 percent 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 (±10PSI) and a temperature of 158°(±18°)F for a period of 96 hours shall retain 60 percent of its originally stated properties.

► Hydrostatic Pressure Test

| Part # | Diameter | Service Test Pressure | Acceptance Test Pressure | Burst Pressure |
|----------|----------|-----------------------|--------------------------|----------------|
| RC15-500 | 1½" | 250psi | 500psi | 800psi |
| RC17-500 | 1¾" | 250psi | 500psi | 800psi |
| RC20-500 | 2" | 250psi | 500psi | 750psi |
| RC25-500 | 2½" | 250psi | 500psi | 750psi |
| RC30-500 | 3" | 250psi | 500psi | 750psi |

Note: Per NFPA, attack hose shall have a minimum design service pressure of 300 psi. See our Dura-Flow line for this type of hose.

► Abrasion Resistance

Hose shall withstand 20,000 cycles on the Taber Abrasion Machine (H-22 Wheel: 1 kg). Key Fire Hose Corporation on request will supply written warranties that PRO-FLOW hose meets a minimum 20,000 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 Fire 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 two minutes without rupture or damage to the synthetic reinforcement.

► Hose Weight and Coil Diameters

The hose shall conform to the following average weights and diameters

| Part # | Diameter | Weight per Length (Coupled) | Coil Size-Coupled per 50' Lengths |
|----------|----------|-----------------------------|-----------------------------------|
| RC15-500 | 1½" | 16 lbs | 15½ in. |
| RC17-500 | 1¾" | 17 lbs | 16 in. |
| RC20-500 | 2" | 19 lbs | 17 in. |
| RC25-500 | 2½" | 26 lbs | 17 in. |
| RC30-500 | 3" | 32 lbs | 18 in. |

► Color

The stock colors are HI-VISIBILITY yellow or red. Other colors available upon request.

► Couplings

As required by purchaser, expansion ring threaded, STORZ clamp ring, etc.

Key reserves the right to modify any specification without prior notice to meet or exceed changing standards. Customers are advised that special diameters or construction characteristics can be produced on special request and you are requested to contact Key Fire Hose Corporation, Miami, Florida.