DIAMETERS

- 1.00in/25mm
- 1.50in/38mm
- 2.00in/51mm
- 2.50in/64mm
- 3.00in/76mm

AQUAFLOW® PLUS-HP

Designed to meet the needs of fire departments faced with the challenges of pumping to high-rise buildings.

- Supports standpipe systems for high-rise buildings that need greater pump pressures
- All sizes service tested to 600 PSI (4140 kPa)
- Unique Mertex® lining
- Premium all synthetic double jacket
- Available with the Identify® recessed area for color coding, bar coding and/or identification markings
- Standard with Permatek HP™ treatment against abrasion, moisture pick up and mildew
- Resistant to most chemicals, petrol products, ozone and U.V. exposure, and hydrolysis
- Remains flexible to -65° F (-55° C)
- Meets or exceeds all performance requirements of NFPA 1961, Underwriters Laboratories and Factory Mutual

clear
tan
black
orange
red
blue
green
yellow
purple

Hose Spec.	Trade Size		Bowl Size		Weight Un-coupled 50' (15.2m)		Coil Diameter 50' (15.2m)		Service Pressure		Proof Pressure		Burst Pressure	
	In.	mm	In.	mm	Lbs	Kg	In.	Cm.	PSI	kPa	PSI	kPa	PSI	kPa
699	1.00	25	1 9/32	33	7.3	3.3	14.5	36.8	600	4 140	1 200	8 275	1 800	12 400
835	1.50	38	1 13/16	46	12.25	5.57	16.0	40.6	600	4 140	1 200	8 275	1 800	12 400
621	2.00	51	2 5/16	59	18.5	8.4	16.0	40.6	600	4 140	1 200	8 275	1 800	12 400
654	2.50	64	2 13/16	71	22.0	10.0	16.0	40.6	600	4 140	1 200	8 275	1 800	12 400
655	3.00	76	3 3/8	86	34.0	15.5	16.0	40.6	600	4 140	1 200	8 275	1 950	13 440

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HOW TO SPECIFY AQUAFLOW® PLUS-HP

THE HOSE SHALL BE DOUBLE JACKET WITH SERVICE TEST PRESSURES AS SPECIFIED ON THE PREVIOUS PAGE

JACKETS

The inner jacket shall be made with high tenacity filament polyester yarn in both the warp and weft directions, to provide maximum strength.

The outer jacket shall be made with virgin spun polyester warp yarn and a filament polyester weft yarn. Hose made using nylon or other materials shall not be considered as meeting this specification. The hose outer jacket shall have a minimum of 10.0 filler yarns per inch (394 per Meter).

LINING

The lining (waterway) must be made from polyurethane and must be applied using a fused process that welds the polyurethane directly to the textile while the hose is being woven, without the use of adhesives or hot melt. This process allows for the use of high strength Filament Polyester warp and weft yarn due to the superior liner adhesion, and locks fibers together for greater strength while still allowing for a high flexibility. The fused lining process must create a virtually inseparable unit without the use of adhesives, yielding an extremely low friction (pressure) loss by filling in the corrugations of the weave, creating an amazingly thin and smooth waterway. This process produces lower elongation under pressure, and less pull back when water pressure is suddenly shut-off, resulting in a safer hose to work with. The lining shall be approved for use with potable water.

ADHESION

The adhesion shall be such that the rate of separation of a 1 ½" / 38mm strip of polyurethane, transversely cut, shall not be greater than 1/4" / 6mm per minute under a weight of 12 lbs / 5.5 kg.

COLD TEMPERATURE FLEXIBILITY

The hose must remain flexible to -65°F (-55°C).

SERVICE, TEST, BURST PRESSURES

Minimum service, test and burst pressures shall be as detailed in the specification table on the previous page.

KINK TEST

A full length will withstand a hydrostatic pressure of 600 psi / 4140 kPa while kinked.

WEIGHT

Each length of fire hose shall not weigh more than indicated in the specification table.

COUPLING SPECIFICATIONS

The Hard Coat anodized couplings shall be manufactured in North America, and permanently labeled with country of origin. They shall be expansion ring type. The male coupling and female swivel nut must both have a recessed area to facilitate color and bar coding and/or identification markings.

MANUFACTURE

Both hose and couplings must be manufactured in North America and be NAFTA compliant.