

DIAMETERS

- 1.00in/25mm
- 1.50in/38mm
- 1.75in/44mm
- 2.00in/51mm
- 2.50in/64mm
- 3.00in/76mm

AQUAFLOW[®] PLUS

Designed for Fire Services where durability and light weight are paramount.

- » Unique Mertex[®] lining yields an extremely low friction loss for maximum flow and superior adhesion for long life
- » Available with Mertex Wayout[®] couplings. The reflective recessed arrows help guide the way out of a fire
- » Features our Mercedes Textiles Limited "Two Year All Hazards Warranty"
- » Standard with our Permatek HP[™] Treatment in (9) color options
- » Remains flexible to -65° F (-55° C)
- » Meets UL and NFPA requirements and can be labeled upon request in the sizes* specified below

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
411	1.00	25	1 9/32	33	7.3	3.3	14.5	36.8	400	2 755	800	5 515	1 450	10 100
412	1.50*	38*	1 15/16	49	13.0	5.9	16.5	41.9	400	2 755	800	5 515	1 450	10 100
413	1.75*	44*	2 1/8	54	14.0	6.4	17.0	43.2	400	2 755	800	5 515	1 500	10 345
414	2.00*	51*	2 5/16	59	17.0	7.7	17.0	43.2	400	2 755	800	5 515	1 450	10 100
415	2.50*	64*	3	76	21.0	9.5	19.0	48.3	400	2 755	800	5 515	1 450	10 100
416	3.00*	76*	3 5/16	84	26.0	11.8	21.0	53.3	400	2 755	800	5 515	1 250	8 620




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HOW TO SPECIFY AQUAFLOW[®] PLUS

**THE HOSE SHALL BE DOUBLE JACKET
WITH A SERVICE TEST PRESSURE OF
400 PSI / 2755 KPA.**

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JACKETS

The inner hose jacket alone shall be a NFPA compliant Attack hose made with 100% filament polyester warp & weft yarn. The outer jacket shall be made with virgin spun polyester warp yarn and a minimum of 10 filament polyester weft yarn picks per inch (394 per Meter). The jacket shall have two 3/16" (4 mm) wide red stripes, 1/4" (6 mm) apart, running the full length of the jacket. The outer jacket shall be impregnated in one of the standard NFPA colors with high performance polymeric dispersion.

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. 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 ultra thin and smooth waterway. Fire hose made using adhesives of any type do not meet this specification. The lining shall be approved for use with potable water.

ADHESION

The adhesion shall be such that the rate of separation of a 1 1/2" / 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).

FLOW AND FRICTION LOSS

1 3/4 inch (44mm) diameter, 100 US GPM (379 LPM), shall not exceed 8 PSI (55 kPa) loss per 100 feet (30.5 M).

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 shall 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 female coupling shall have at least 3 reflective arrows (2 reflective arrows on 1.0" size), in order to be visible from any position. The reflective arrows must be engraved into and below the surface of the coupling, to resist abrasion. The arrows must point in the direction of the water source for a standard hose connection.

MANUFACTURE

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

WARRANTY

The fire hose shall have a "Two Year All Hazards Warranty".