

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.
- » Also available with the IDentify® recessed area for color and bar coding and/or identification markings
- » Features our Mercedes Textiles Limited 2-10-L warranty ("2 year All Hazards", "10 year against manufacturing defects" and "Lifetime against delamination")
- » 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	12.5	5.7	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	16.8	7.6	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



**MERCEDES
TEXTILES LIMITED**

5838 Cypihot
Saint Laurent, QC
Canada, H4S 1Y5

PHONE 514.335.4337
PHONE 877.937.9660
FAX 514.335.9633

mercedestextiles.com
sales@mercedestextiles.com



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 shall be 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.

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.

WARRANTY

The fire hose shall have a 2-10-L warranty, as described below.
"2" denotes Two year "all hazards" warranty against any damage incurred during firefighting applications
"10" denotes Ten year warranty against manufacturing defects
"L" denotes Lifetime warranty against liner delamination

INNOVATION DELIVERED.