
## DIAMETERS

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

# MTFS-800-DP®

Designed as the most easily advanced high rise attack and RIT hose. Lightweight, yet rugged with the lowest drag coefficient.

- clear
- tan
- black
- orange
- red
- blue
- green
- yellow
- purple

- It's light weight reduces fire fighter fatigue and stress
- Tough and ready for action
- 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 1960 (1961), Underwriters Laboratories and Factory Mutual
- All sizes and colors are tested according to the procedures specified in "2020 UL 19 radiant heat test"
- Meets ULC requirements and can be labeled upon request in the sizes* specified below

| 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 |
| 422 | 1.00 | 25 | 1 9/32 | 33 | 7.0 | 3.2 | 14.5 | 36.8 | 400 | 2 755 | 800 | 5 515 | 1 200 | 8 275 |
| 417 | 1.5* | 38* | 1 13/16 | 46 | 10.5 | 4.8 | 14.5 | 36.8 | 400 | 2 755 | 800 | 5 515 | 1 200 | 8 275 |
| 418 | 1.75* | 44* | 2 | 51 | 12.0 | 5.5 | 14.5 | 36.8 | 400 | 2 755 | 800 | 5 515 | 1 200 | 8 275 |
| 419 | 2* | 51* | 2 5/16 | 59 | 16.0 | 7.3 | 15.5 | 39.4 | 400 | 2 755 | 800 | 5 515 | 1 200 | 8 275 |
| 420 | 2.5* | 64* | 2 7/8 | 73 | 19.0 | 8.6 | 16.0 | 40.6 | 400 | 2 755 | 800 | 5 515 | 1 200 | 8 275 |
| 421 | 3* | 76* | 3 5/16 | 84 | 25.5 | 11.6 | 16.0 | 40.6 | 400 | 2 755 | 800 | 5 515 | 1 200 | 8 275 |

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Innovation delivered.™

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# HOW TO SPECIFY

# MTFS-800-DP®

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

## JACKETS

The inner alone shall be made with 100% filament polyester warp and 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 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. 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).

## FLOW AND FRICTION LOSS

1 ¾ inch (44mm) diameter, 100 US GPM (379 LPM), shall not exceed 8.5 PSI (59 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 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.

## STANDARDS

The hose must meet or exceed all performance requirements of NFPA 1960 (1961), Underwriters Laboratories and Factory Mutual.
The hose must also be tested in accordance with the procedures specified in "2020 UL 19 radiant heat test".

## MANUFACTURE

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

**INNOVATION** DELIVERED.