KEY FIRE HOSE CORPORATION

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Specification Sheet

- **Single Jacket Mill Hose – 250**
- **Double Jacket Contractors Hose – 400**
- **Rubber Lined**
- **1", 1½", 2", 2½", 3", 4"**

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.

Service Life: Hose furnished under these specifications will have a potential service life **warranty** of not less than **one year;** barring mistreatment that would render it unfit for service. Upon delivery, the hose shall be free from defects in workmanship and materials. Any defective hose will be replaced at no charge whatsoever.

Jacket Construction

The jackets will be woven evenly and be free of defects, including knots, lumps, or unsightly disfigurations that could jeopardize the integrity of the hose assembly. The warp yarn shall consist of staple polyester yarn. The use of filament or entangled yarn is expressly forbidden due to the lack of inherent abrasion resistance. The filler yarns shall be constructed of high strength, low elongation, filament polyester to reduce weight and increase flexibility.

Abrasion Impregnation

Hose assemblies are available with polymer impregnation that provide additional abrasion resistance. Colors include: yellow, orange, red, tan, black, blue and green. Color shall be pure and even in each hose. Impregnated hose shall meet the requirements of Mil-H-24606B for abrasion resistance.

Lining

The rubber lining shall be a single-ply extruded tube of synthetic rubber compounded to resist ozone. The finished form shall be free of pits or other imperfections and have a smooth finish. No reclaimed rubber shall be used. Plastic tubes that sacrifice durability of the hose life for the sake of weight are not acceptable.

Backing: The backing shall be of adequate thickness to create a smooth waterway but not greater than .020. The fire hose constructed under this specification shall be manufactured fully backed.

Couplings

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

Single Jacket Hydrostatic Testing

Stock Lengths: Standard lengths are 50, 75 and 100 feet.

Size	1"	1½"	2"	2½"	3"	4"
Part Number	SP10-MHH	SP15-MHH	SP20-MHH	SP25-MHH	SP30-MHH	SP40-MHH
Test Pressure	250psi	250psi	250psi	250psi	250psi	250psi
Service Test Pressure	**125psi**	**125psi**	**125psi**	**125psi**	**125psi**	**125psi**
Elongation	4%	5%	6%	7%	8%	8%
Burst Test	**500psi**	**500psi**	**500psi**	**500psi**	**450psi**	**450psi**
Kink Test	250psi	250psi	250psi	250psi	250psi	250psi

Single Jacket Weights and Measures

Size	1"	1½"	2"	2½"	3"	4"
Part Number	SP10-MHH	SP15-MHH	SP20-MHH	SP25-MHH	SP30-MHH	SP40-MHH
Bowl Size	1¼"	1¾"	2⅜"	2 13/16"	3⅜"	4⅜"
Weight per 50' length Uncoupled	**8 lbs.**	**12 lbs.**	**18 lbs.**	**21 lbs.**	**29 lbs.**	**32 lbs.**
Weight per 50' length Coupled	10 lbs.	13 lbs.	20 lbs.	23 lbs.	31 lbs.	41 lbs.

Double Jacket Contractors Hose Hydrostatic Testing

Stock Lengths: Standard lengths are 50, 75 and 100 feet.

Size	1½"	2"	2½"
Part Number	DP15-MHH	DP20-MHH	DP25-MHH
Test Pressure	400psi	400psi	400psi
Service Test Pressure	**200psi**	**200psi**	**200psi**
Elongation	5%	7%	8%
Burst Test	**600psi**	**600psi**	**600psi**
Kink Test	400psi	400psi	400psi

Double Jacket Contractors Hose Weights and Measures

Size	1½"	2"	2½"
Part Number	DP15-MHH	DP20-MHH	DP25-MHH
Bowl Size	1 15/16"	2½"	3"
Weight per 50' length Uncoupled	**17 lbs.**	**25 lbs.**	**28 lbs.**
Weight per 50' length Coupled	18 lbs.	27 lbs.	30 lbs.

Key Fire Hose 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. For more information, please contact your Key Fire Hose Corporation authorized distributor.

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Specification Sheet

- **Single Jacket 300 Pound Test**
- **Rubber Lined**
- **1½", 2", 2½", 3", 4"**

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.

Service Life: Hose furnished under these specifications will have a potential service life **warranty** of not less than **five years;** barring mistreatment that would render it unfit for service. Upon delivery, the hose shall be free from defects in workmanship and materials. Any defective hose will be replaced at no charge whatsoever.

Jacket Construction

The jackets will be woven evenly and be free of defects, including knots, lumps, or unsightly disfigurations that could jeopardize the integrity of the hose assembly. The warp yarn shall consist of staple polyester yarn. The use of filament or entangled yarn is expressly forbidden due to the lack of inherent abrasion resistance. The filler yarns shall be constructed of high strength, low elongation, filament polyester to reduce weight and increase flexibility.

Abrasion Impregnation

Hose assemblies are available with polymer impregnation that provide additional abrasion resistance. Colors include: yellow, orange, red, tan, black, blue and green. Color shall be pure and even in each hose. Impregnated hose shall meet the requirements of Mil-H-24606B for abrasion resistance.

Lining

The rubber lining shall be a single-ply extruded tube of synthetic EPDM compounded to resist ozone. The finished form shall be free of pits or other imperfections and have a smooth finish. No reclaimed rubber shall be used. Plastic tubes that sacrifice durability of the hose life for the sake of weight are not acceptable.

Backing: The backing shall be of adequate thickness to create a smooth waterway but not greater than .020. The fire hose constructed under this specification shall be manufactured fully backed.

Tensile Strength & Ultimate Elongation: Shall meet the standards of Underwriters Laboratories, Inc.™ as well as all other properties of UL-19 for rubber lined hoses. A valid U.S. Underwriters inspection procedure shall be in force at the time of bid.

Hydrostatic Testing

Stock Lengths: Standard lengths are 50, 75 and 100 feet.

Size	1½"	2"	2½"	3"	4"
Part Numbers	SP15-300	SP20-300	SP25-300	SP30-300	SP40-300
Test Pressure	300psi	300psi	300psi	300psi	300psi
Elongation	5%	6%	7%	8%	8%
Twist per foot	64° right	64° right	25° right	25° right	20° right
Warp	10"	10"	10"	10"	10"
Rise	3"	2"	1"	0"	0"
Burst Test	650psi	650psi	650psi	550psi	500psi
Kink Test	300psi	300psi	300psi	300psi	300psi

Finished Hose

Markings: Beginning at a point not less than four feet from the end, each fifty foot section shall be stencilled in indelible ink with letters at least one inch high stating the name of the manufacturer, month and year of manufacture, and service test to 150 PSI per NFPA 1962. The ink used will be of a contrasting color.

Methods of Testing: All measurements and tests necessary to determine compliance of the fire hose specified requirements shall be made with ASTM, UL and NFPA 1961 designation, unless otherwise prescribed.

Weights and Measures

Size	1½"*	2"*	2½"*	3"*	4"*
Part Numbers	SP15-300	SP20-300	SP25-300	SP30-300	SP40-300
Bowl Size	1 13/16"	2 3/8"	2 13/16"	3 3/8"	4 3/8"
Weight per 50' length Uncoupled	11 lbs.	15 lbs.	23 lbs.	25 lbs.	37 lbs.
Weight per 50' length Coupled	13 lbs.	16 lbs.	24 lbs.	27 lbs.	41 lbs.

*Available with a UL label add-on.

Couplings

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

Key Fire Hose 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. For more information, please contact your Key Fire Hose Corporation authorized distributor.

KEY FIRE HOSE CORPORATION

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Specification Sheet

- **Single Jacket 500 Pound Test**
- **Rubber Lined**
- **1", 1½", 1¾", 2", 2½", 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.

Service Life: Hose furnished under these specifications will have a potential service life **warranty** of not less than **five years;** barring mistreatment that would render it unfit for service. Upon delivery, the hose shall be free from defects in workmanship and materials. Any defective hose will be replaced at no charge.

Jacket Construction

The jackets will be woven evenly and be free of defects, including knots, lumps, or unsightly disfigurations that could jeopardize the integrity of the hose assembly. The warp yarn shall consist of staple polyester yarn. The use of filament or entangled yarn is expressly forbidden due to the lack of inherent abrasion resistance. The filler yarns shall be constructed of high strength, low elongation, filament polyester to reduce weight and increase flexibility.

Abrasion Impregnation

Hose assemblies are available with polymer impregnation that provide additional abrasion resistance. Colors include: yellow, orange, red, tan, black, blue and green. Color shall be pure and even in each hose. Impregnated hose shall meet the requirements of Mil-H-24606B for abrasion resistance.

Lining

The rubber lining shall be a single-ply extruded tube of synthetic EPDM compounded to resist ozone. The finished form shall be free of pits or other imperfections and have a smooth finish. No reclaimed rubber shall be used. Plastic tubes that sacrifice durability of the hose life for the sake of weight are not acceptable.

Backing: The backing shall be of adequate thickness to create a smooth waterway but not greater than .020. The fire hose constructed under this specification shall be manufactured fully backed.

Tensile Strength & Ultimate Elongation: Shall meet the standards of Underwriters Laboratories, Inc.™ as well as all other properties of UL-19 for rubber lined hoses.

A valid U.S. Underwriters inspection procedure shall be in force at the time of bid.

Hydrostatic Testing

Stock Lengths: Standard lengths are 50, 75 and 100 feet.

Size	1"	1½"	1¾"	2"	2½"	3"
Part Numbers	SP10-500	SP15-500	SP17-500	SP20-500	SP25-500	SP30-500
Test Pressure	500psi	500psi	500psi	500psi	500psi	400psi
Elongation	4%	5%	6%	6%	7%	8%
Twist per foot	71° right	64° right	64° right	64° right	25° right	25° right
Warp	10"	10"	10"	10"	10"	10"
Rise	4"	3"	2"	1"	0	0
Burst Test	800psi	800psi	800psi	750psi	750psi	750psi
Kink Test	500psi	400psi	350psi	350psi	350psi	300psi

Finished Hose

Markings: Beginning at a point not less than four feet from the end, each fifty foot section shall be stencilled in indelible ink with letters at least one inch high stating the name of the manufacturer, month and year of manufacture, and service test to 250 PSI per NFPA 1962. The ink used will be of a contrasting color.

Methods of Testing: All measurements and tests necessary to determine compliance of the fire hose specified requirements shall be made with ASTM, UL and NFPA 1961 designation, unless otherwise prescribed.

Weights and Measures

Size	1"	1½"*	1¾"*	2"*	2½"*	3"
Part Numbers	SP10-500	SP15-500	SP17-500	SP20-500	SP25-500	SP30-500
Bowl Size	1¼"	1 ¾"	1 15/16"	2 3/8"	2 13/16"	3 3/8"
Weight per 50' length Uncoupled	9 lbs.	13 lbs.	18 lbs.	21 lbs.	24 lbs.	32 lbs.
Weight per 50' length Coupled	11 lbs.	14 lbs.	19 lbs.	22 lbs.	25 lbs.	35 lbs.
*Available with a UL label add-on.						

Couplings

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

Key Fire Hose 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. For more information, please contact your Key Fire Hose Corporation authorized distributor.

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Specification Sheet

- **Double Jacket 600 Pound Test**
- **Rubber Lined**
- **1 1/2", 1 3/4", 2", 2 1/2", 3", 4"**

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. **Service Life:** Hose furnished under these specifications will have a potential service life **warranty of not less than ten years**; barring mistreatment that would render it unfit for service. Upon delivery, the hose shall be free from defects in workmanship and materials. Any defective hose will be replaced at no charge whatsoever.

Jacket Construction

The jackets will be woven evenly and be free of defects, including knots, lumps, or unsightly disfigurations that could jeopardize the integrity of the hose assembly. The warp yarn shall consist of staple polyester yarn. The use of filament or entangled yarn is expressly forbidden due to the lack of inherent abrasion resistance. The filter yarns shall be constructed of high strength, low elongation, filament polyester to reduce weight and increase flexibility.

Abrasion Impregnation

Hose assemblies are available with polymer impregnation that provide additional abrasion resistance. Colors include: yellow, orange, red, tan, black, blue and green. Color shall be pure and even in each hose. Impregnated hose shall meet the requirements of Mill-H-24606B for abrasion resistance.

Lining

The rubber lining shall be a single-ply extruded tube of synthetic EPDM compounded to resist ozone. The finish form shall be free of pits or other imperfections and have a smooth finish. No reclaimed rubber shall be used. Plastic tubes that sacrifice durability of the hose life for the sake of weight are not acceptable.

Backing: The backing shall be of adequate thickness to create a smooth waterway but not greater than .020. The fire hose constructed under this specification shall be manufactured fully backed using a calendered EPDM. The use of adhesives of any kind are acceptable and expressly forbidden.

Tensile Strength & Ultimate Elongation: Shall meet the standards of Underwriters Laboratories, Inc.™ as well as all other properties of UL-19 for rubber lined hoses. A valid U.S. Underwriters inspection procedure shall be in force.

Hydrostatic Testing

Stock Lengths: Standard lengths are 50, 75 and 100 feet.

Size	1 1/2"	1 3/4"	2"	2 1/2"	3"	4"
Part Number	DP15-600	DP17-600	DP20-600	DP25-600	DP30-600	DP40-600
Test Pressure	600psi	600psi	600psi	600psi	600psi	600psi
Elongation	6%	6%	6%	6%	7%	8%
Twist per foot	15° right	15° right	10° right	10° right	8° right	7 1/2° right
Warp	10"	10"	10"	10"	10"	10"
Rise	0	0	0	0	0	0
Burst Test	1000psi	1000psi	1000psi	1000psi	1000psi	1000psi
Kink Test	500psi	500psi	500psi	500psi	450psi	400psi

Finished Hose

Markings: Beginning at a point not less than four feet from the end, each fifty foot section shall be stencilled in indelible ink with letters at least one inch high stating the name of the manufacturer, month and year of manufacture, and service test to 300 PSI. The ink will be of a contrasting color.

Methods of Testing: All measurements and tests necessary to determine compliance of the fire hose specified requirements shall be made with ASTM, UL and NDPA 1961 designation, unless otherwise prescribed.

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

Weights & Measures

Size	1 1/2"*	1 3/4"*	2"*	2 1/2"*	3"*	4"*
Part Number	DP15-600	DP17-600	DP20-600	DP25-600	DP30-600	DP40-600
Bowl Size	1 15/16"	2 1/8"	2 1/2"	3"	3 9/16"	4 9/16"
Weight per 50' length Uncoupled	17 lbs.	19 lbs.	25 lbs.	28 lbs.	38 lbs.	53 lbs.
Weight per 50' length Coupled	18 lbs.	20 lbs.	27 lbs.	30 lbs.	41 lbs.	59 lbs.

*Available with a UL label add-on

Key Fire hose 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. For more information, please contact your Key Fire Hose Corporation authorized distributor.

KEY FIRE HOSE CORPORATION

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Key-Lite Specification Sheet

POTABLE WATER

- **Double Jacket 600 Pound Test**
- **Polyurethane lined**
- **1½", 2½" and 4"**

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.

Service Life: Hose furnished under these specifications will have a potential service life **warranty** of not less than **two years;** barring mistreatment that would render it unfit for service. Upon delivery, the hose shall be free from defects in workmanship and materials. Any defective hose will be replaced at no charge whatsoever.

Jacket Construction

The jackets will be woven evenly and be free of defects, including knots, lumps, or unsightly disfigurations that could jeopardize the integrity of the hose assembly. The warp yarn shall consist of staple polyester yarn. The use of filament or entangled yarn is expressly forbidden due to the lack of inherent abrasion resistance. The filler yarns shall be constructed of high strength, low elongation, filament polyester to reduce weight and increase flexibility.

Abrasion Impregnation

Hose assemblies are available with polymer impregnation that provide additional abrasion resistance. Colors include: yellow, orange, red, tan, black, blue and green. Color shall be pure and even in each hose. Impregnated hose shall meet the requirements of Mil-H-24606B for abrasion resistance.

Lining

The lining shall be a single-ply extruded tube of synthetic polyurethane to resist ozone. The polyurethane tube shall adhere to the jacket to prevent delamination. The finished product will meet and exceed all potable water Mil-H-24606B standards for the manufacturing of lightweight fire hose. The use of the polyurethane lined fire hose is designed to increase packing ability and applications where lightweight fire hose is desired.

Hydrostatic Testing

Stock Lengths: Standard lengths are 50 and 100 feet.

Size	1½"	2½"	4"
Test Pressure	600psi	600psi	600psi
Elongation	6%	6%	8%
Twist per foot	15° right	10° right	7½° right
Warp	10"	10"	10"
Rise	0	0	0
Burst Test	900psi	900psi	900psi
Kink Test	500psi	500psi	400psi

Finished Hose

Markings: Beginning at a point not less than four feet from the end, each fifty foot section shall be stencilled in indelible ink with letters at least one inch high stating the name of the manufacturer, month and year of manufacture, and service test to 300 PSI. The ink used will be of a contrasting color.

Methods of Testing: All measurements and tests necessary to determine compliance of the fire hose specified requirements shall be made with ASTM, UL and NFPA 1961 designation, unless otherwise prescribed.

Couplings

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

Weights and Measures

Size	1½"	2½"	4"
Part Number	DP15-600PU	DP25-600PU	DP40-600PU
Bowl Size	1 15/16"	3"	4 9/16"
Weight per 50' length. Uncoupled.	14 lbs.	22 lbs.	40 lbs.

Key Fire Hose 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. For more information, please contact your Key Fire Hose Corporation authorized distributor.

KEY FIRE HOSE CORPORATION

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Combat LDH-600 Specification Sheet

- **Rubber Covered Hose**
- **4" & 5" Hi-Pressure Attack Hose**

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. Meeting all requirements of NFPA 1961. **Warranty:** Hose shall carry a **five year** written warranty.

Lining Properties

Ultimate Tensile Strength:

Tensile strength of the lining and cover shall not be less than 1750 PSI.

Ultimate Elongation:

500 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 (±10 PSI) and a temperature of 158°(±18°F) for a period of 96 hours shall retain 60 percent of its originally stated properties.

Hydrostatic Pressure Tests

Part #	Diameter	Service Test Pressure	Acceptance Test Pressure	Burst Pressure
RC40-600G	4"	300psi	600psi	900psi
RC50-600G	5"	300psi	600psi	900psi

Abrasion Resistance

Hose shall withstand 30,000 cycles on the Taber Abrasion Machine (H-22 Wheel: 1 kg). Key Fire Hose Corporation on request will supply written warranties that this hose meets a minimum 30,000 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 foot uncoupled	Coil Size Uncoupled 100' Lengths
RC40-600G	4"	.93lbs	26"
RC50-600G	5"	1.25 lbs	29"

Color

The color shall be a HI-VISIBILITY keylime green.

Couplings

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

Special orders requiring unusual diameters or construction characteristics can be produced by request. Contact our customer service representatives for all your needs. *Key Fire Hose Corp. reserves the right to modify any specification without prior notice to meet changing NFPA standards.

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Dura-Flow Specification Sheet

- **Rubber Covered Hose**
- **1", 1½", 1¾", 2", 2½" and 3"**

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. Meeting all requirements of NFPA 1961.
Warranty: Hose shall carry a **five year** written warranty.

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 of 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 Testing

Part Number	Diameter	Service Test Pressure	Acceptance Test Pressure	Burst Pressure
RC10-600	1"	300psi	600psi	900psi
RC15-600	1½"	300psi	600psi	900psi
RC17-600	1¾"	300psi	600psi	900psi
RC20-600	2"	300psi	600psi	900psi
RC25-600	2½"	300psi	600psi	900psi
RC30-600	3"	300psi	600psi	800psi

Abrasion Resistance

Hose shall withstand 30,000 cycles on the Taber Abrasion Machine (H-22 Wheel: 1 kg). Key Fire Hose Corporation on request will supply written warranties that DURA-FLOW hose meets a minimum 30,000 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 Number	Diameter	Weight per Length (Coupled)	Coil Size - Coupled per 50' Lengths
RC10-600	1"	10 lbs	16 in.
RC15-600	1½"	12 lbs	16 in.
RC17-600	1¾"	14 lbs	17 in.
RC20-600	2"	16 lbs	17 in.
RC25-600	2½"	24 lbs	18 in.
RC30-600	3"	30 lbs	18 in.

Color

The color shall be of HI-VISIBILITY yellow or red.
Other color available are: blue, orange and green.

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.

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Reel-Lite 600/800 Specification Sheet

• Lightweight Booster Hose

A multi-purpose, lightweight, rigid 1" diameter attack hose that meets the needs of industrial, municipal and forestry market applications. Reel-lite 600 features an abrasion resistant all polyester cover with a polyurethane coating. Reel-lite 800 is a uniquely constructed product which features a nitrile rubber cover for heat and abrasion resistance. Both products are constructed with a special helical interior reinforcement to retain its rigid shape. This thin-walled E.P.D.M. rubber lined hose, is the most durable lightweight booster hose on the market.

▸ Hose Construction

Circular woven, single jacket, combined with a helical interior reinforcement, and a all polyester or nitrile rubber cover.

▸ Tube

Extruded E.P.D.M. rubber liner for age, ozone and chemical resistance.

▸ Internal Diameter

One inch (38 mm)

▸ Bowl Size

1 5/16"

▸ Length

Available in 50' to 200' continuous lengths.

▸ Couplings

Field replaceable coupling with a one inch NH thread standard. Aluminum internal expansion ring coupling available upon request.

▸ Characteristics

Hose Size	**1"(38 mm)**
Part Number	**RB10-800R/RB10-600R**
Test Pressure	**800 PSI**
Weight 50' Coupled	**10 LBS**
Recommended Reel Size	**12" minimum**

▸ Color

The color shall be red.

- Normal service conditions in temperature range from –50°F to 112°F
- Heat resistant up to 1200°F *RB10-800R only
- UL abrasion test of 15,000 cycles minimum
- Minimum working pressure of 400 PSI
- Service test to 800 PSI
- Maximum burst pressure of 1200 PSI
- Pliable and abrasion resistant cover
- Lightweight and kink resistant
- 1-Year warranty against defects in material and workmanship

Reel & nozzle available upon special request. Contact our sales representatives for more information.

KEY FIRE HOSE CORPORATION

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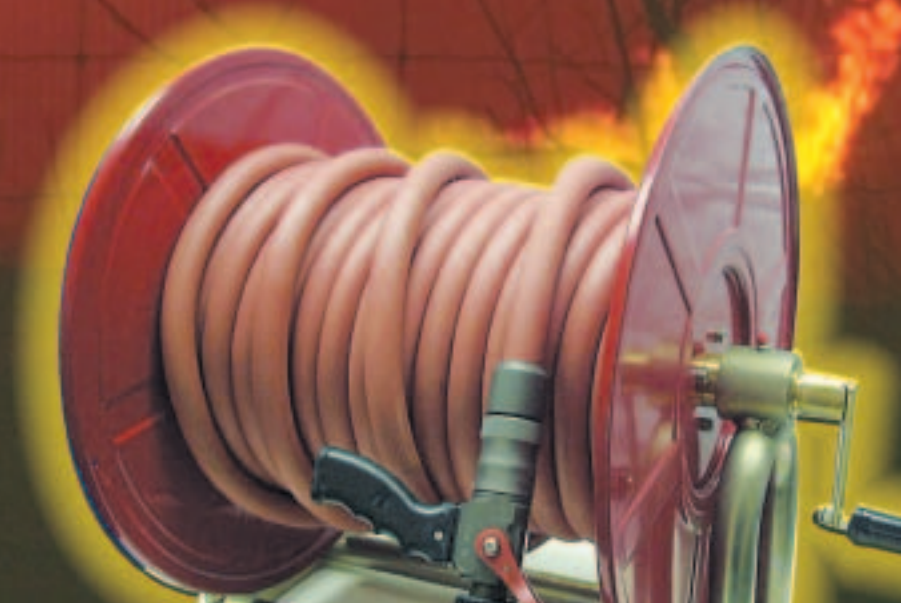
Reel-Lite

1” Diameter Attack Hose

- 1 year warranty
- Abrasion Resistance Cover
- Lightweight and Kink Resistant
- Heat Resistance
- Single Jacket Construction
- Chemical Resistance

Are You Really Ready?



KEY FIRE HOSE CORPORATION

Visit us on the Web: www.keyfire.com

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.

KEY FIRE HOSE CORPORATION

www.keyfire.com

Pro-Flow

Rubber Covered Hose

- 5 year warranty
- Single Homogeneous Construction
- Abrasion Resistance
- Cold Resistance
- Chemical Resistance
- Heat Resistance

Are You Really Ready?

KEY FIRE HOSE CORPORATION

Visit us on the Web: www.keyfire.com

Pro-Lite Specification Sheet

- **Rubber Covered Hose**
- **1¾" and 2½" Hi-Rise Hose**

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-Lite 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.

Note: This hose is specifically designed for high-rise use.

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 2000 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
RC17-600SO	1¾"	300psi	600psi	900psi
RC25-600SO	2½"	300psi	600psi	900psi

Abrasion Resistance

Hose shall withstand 5,000 cycles on the Taber Abrasion Machine (H-22 Wheel: 1 kg). Key Fire Hose Corporation on request will supply written warranties that PRO-LITE hose meets a minimum 5,000 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 Foot	Coil Size-Coupled per 50' Lengths
RC17-600SO	1¾"	.2 lbs	10 in.
RC25-600SO	2½"	.4 lbs	14 in.

Color

The color shall be HI-VISIBILITY orange.

Couplings

As required by purchaser.

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.

KEY FIRE HOSE CORPORATION

www.keyfire.com

Pro-Lite

Rubber Covered Hi-Rise Hose

- 5 year warranty
- Abrasion Resistance
- Cold Resistance
- Chemical Resistance
- Heat Resistance
- Single Homogeneous Construction

Are You Really Ready?

KEY FIRE HOSE CORPORATION

Visit us on the Web: www.keyfire.com

Rack & Reel Hose
Single Jacket Specification Sheet

- **500 Pound Test Light Weight**
- **Polyurethane Lined**
- **1 1/2", 2 1/2"**

Scope

All polyester single jacket fire hose specifically designed for interior fire fighting use, pin racks, and/or fire cabinets in buildings and plants. NFPA 1961 standards shall be observed in production and assembly to insure quality and durability.

Jacket Construction

The jackets will be woven evenly and be free of defects, including knots, lumps, or unsightly disfigurations that could jeopardize the integrity of the hose assembly. The warp and filler yarns shall consist of 100% virgin polyester to reduce weight and increase flexibility.

Lining

The lining shall be a single-ply extruded tube of synthetic polyurethane to resist ozone and increase tensile strength characteristics. The polyurethane tube shall adhere to the jacket to prevent delamination. The use of polyurethane lined fire hose is designed to increase packing ability and interior firefighting applications where lightweight fire hose is desired.

Features

- FM Approved Standard & UL available upon special request.
- Stock lengths: Standard lengths are 50, 75 and 100 feet.
- Pre-folded for ease of installation.
- 250 PSI working pressure, hydrostatically tested to 500 PSI at point of manufacture.
- Available with internal expansion ring brass or aluminum couplings.

Physical Properties

Hose Size	Part #	Coupling Bowl Size	Weight per 50' foot uncpld.	Working Pressure	Test Pressure
1-1/2"	**RR15-500**	1-11/16"	6 lbs	250 PSI	500 PSI
2-1/2"	**RR25-500**	2-11/16"	10 lbs	250 PSI	500 PSI

Rack & Reel

Single Jacket

- *5 year warranty*
- *Single Homogeneous Construction*
- *Abrasion Resistance*
- *Cold Resistance*
- *Chemical Resistance*
- *Heat Resistance*

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Rubber-Covered Stock List

Part Number	Description		YELLOW	RED	BLUE	BLACK	ORANGE	GREEN	Length
Industrial Application									
RC15-500	1-1/2"	Pro-Flow	x	x	x	x			50 & 100 ft
RC15-500	1-1/2"	Pro-Flow	x	x					75 ft
RC17-500	1-3/4"	Pro-Flow	x	x					50 & 100 ft
RC20-500	2"	Pro-Flow	x	x					50 & 100 ft
RC25-500	2-1/2"	Pro-Flow	x	x					50, 75 & 100 ft
RC30-500	3"	Pro-Flow	x	x					50 & 100 ft
Municipal Application			YELLOW	RED	BLUE	BLACK	ORANGE	GREEN	
Part Number	Description								Length
RC10-600	1"	Dura-Flow	x						50 & 100 ft
RC15-600	1-1/2"	Dura-Flow	x	x				x	50 & 100 ft
RC17-600	1-3/4"	Dura-Flow	x	x	x		x	x	50 & 100 ft
RC20-600	2"	Dura-Flow	x	x					50 & 100 ft
RC25-600	2-1/2"	Dura-Flow	x	x					50 & 100 ft
RC30-600	3"	Dura-Flow	x	x					50 & 100 ft
LHD - Supply Hose			YELLOW	RED	BLUE	BLACK	ORANGE	GREEN	
Part Number	Description								Length
RC40-500	4"	Pro-Flow	x	x	x		x		Length to 100 ft
RC50-400	5"	Pro-Flow	x	x	x		x		Length to 100 ft
RC60-300	6"	Pro-Flow	x						Length to 100 ft
LDH - High Pressure Hose			YELLOW	RED	BLUE	BLACK	ORANGE	GREEN	
Part Number	Description								Length
RC40-600	4"	Attack Hose						x	Length to 100 ft
RC50-600	5"	Attack Hose						x	Length to 100 ft
Municipal Application			YELLOW	RED	BLUE	BLACK	ORANGE	GREEN	
Part Number	Description								Length
RC17-600	1-3/4"	High Rise					x		50, 75 & 100 ft
RC25-600	2-1/2"	High Rise					x		50, 75 & 100 ft

Other Lengths, Colors and Diameters Available by Special Order
Please contact our Customer Service Dept. for details.

KEY FIRE HOSE CORPORATION

Visit us on the Web: www.keyfire.com

Super-Flow Specification Sheet

- **Nitrile Rubber Covered Hose Black LDH**
- **4", 6", and 8"**

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 1750 PSI.

Ultimate Elongation:

500 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 (±10 PSI) and a temperature of 158°(±18°F) for a period of 96 hours shall retain 60 percent of its originally stated properties.

Hydrostatic Pressure Tests

Part Number	Diameter	Service Test Pressure	Acceptance Test Pressure	Burst Pressure
RC40-500	4"	250psi	500psi	750psi
RC60-300	6"	150psi	300psi	500psi
RC80-300	8"	150psi	300psi	450psi

Abrasion Resistance

Hose shall withstand 30,000 cycles on the Taber Abrasion Machine (H-22 Wheel: 1 kg). Key Fire Hose Corporation on request will supply written warranties that SUPER-FLOW hose meets a minimum 30,000 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 -5°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 -5°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 300°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 Number	Diameter	Weight per foot uncoupled	Coil Size Uncoupled 100' Lengths
RC40-500	4"	.75 lbs	24"
RC60-300	6"	1.20 lbs	34"
RC80-300	8"	1.70 lbs	38"

Color

The color shall be black.

Other colors available upon request.

Couplings

Hose is designed for Bower Couplings.

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 Corp. Miami, Florida.

KEY FIRE HOSE CORPORATION

Visit us on the Web: www.keyfire.com

Pro-Flow Specification Sheet

- **Rubber Covered Hose**
- **4", 5", and 6"**

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. Meeting all requirements of NFPA 1961.
Warranty: Hose shall carry a **five year** written warranty.

Lining Properties

Ultimate Tensile Strength:

Tensile strength of the lining and cover shall not be less than 1750 PSI.

Ultimate Elongation:

500 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 (±10 PSI) and a temperature of 158°(±18°F) for a period of 96 hours shall retain 60 percent of its originally stated properties.

Hydrostatic Pressure Tests

Part Number	Diameter	Service Test Pressure	Acceptance Test Pressure	Burst Pressure
RC40-500	4"	250psi	500psi	750psi
RC50-400	5"	200psi	400psi	600psi
RC60-300	6"	150psi	300psi	500psi

Abrasion Resistance

Hose shall withstand 30,000 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 30,000 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 Number	Diameter	Weight per foot uncoupled	Coil Size Uncoupled 100' Lengths
RC40-500	4"	.74 lbs	24"
RC50-400	5"	1.04 lbs	27"
RC60-300	6"	1.35 lbs	34"

Color

The color shall be of 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 Corp. Miami, Florida.

Visit us on the Web: www.keyfire.com

Forestry-187
Single Jacket Specification Sheet
- **600 Pound Test Heavy Duty Light Weight**
- **Polyurethane Lined**
- **1", 11/2"**

Scope

Quality: The fire hose assembly supplied under this specification shall be constructed with superior quality materials observing USDA Forestry 5100-187 specifications. NFPA 1961 standards shall be observed in production of the assembly, in order to ensure its quality and durability.

Service Life: Hose furnished under these specifications will have a potential service life **warranty of two years**; barring mistreatment that would render it unfit for service. Upon delivery, the hose shall be free from defects in workmanship and materials. Any defective hose will be replaced at no charge.

Jacket Construction

The jackets will be woven evenly and be free of defects, including knots, lumps, or unsightly disfigurations that could jeopardize the integrity of the hose assembly. The warp yarn shall consist of filament polyester yarn. The filler yarns shall be constructed of high strength, low elongation, filament polyester to reduce weight and increase flexibility.

Lining

The lining shall be a single-ply extruded tube of synthetic polyurethane to resist ozone. The polyurethane tube shall adhere to the jacket to prevent delamination. The finished product will meet and exceed all potable water Mil-H-24606B standards for the manufacturing of lightweight fire hose. The use of the polyurethane lined fire hose is designed to increase packing ability and applications where lightweight fire hose is desired.

Hydrostatic Testing

Stock Lengths: Standard lengths are 50 and 100 feet.

Size	1"	1-1/2"
Test Pressure	600psi	600psi
Elongation	4%	5%
Twist per foot	71° right	64° right
Warp	10"	10"
Rise	4	3
Burst Test	900psi	900psi
Kink Test	500psi	500psi

Finished Hose

Markings: Beginning at a point not less than four feet from the end, each fifty foot section shall be stencilled in indelible ink with letters at least one inch high stating the name of the manufacturer, month and year of manufacture, and service test to 300 PSI. The ink used will be of a contrasting color.

Methods Testing: All measurements and tests necessary to determine compliance of the fire hose specified requirements shall be made with ASTM, UL and NFPA 1961 designation, unless otherwise prescribed.

Couplings

Expansion ring threaded or as required by purchaser.

Weights & Measures

Part #	SP10-600-187	SP15-600-187
Coil Diameter	13"	14"
Size	1"	1-1/2"
Bowl Size	1-1/4"	1-3/4"
Weight per 100' length (uncoupled)	8	10
Weight per 100' length (coupled)	12	13

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. For more information, please contact your Key Fire Hose Corporation authorized distributor.

Visit us on the Web: www.keyfire.com

Forestry-187
Single Jacket Specification Sheet
- **600 Pound Test Heavy Duty Light Weight**
- **Polyurethane Lined**
- **1", 11/2"**

Scope

Quality: The fire hose assembly supplied under this specification shall be constructed with superior quality materials observing USDA Forestry 5100-187 specifications. NFPA 1961 standards shall be observed in production of the assembly, in order to ensure its quality and durability.

Service Life: Hose furnished under these specifications will have a potential service life **warranty of two years**; barring mistreatment that would render it unfit for service. Upon delivery, the hose shall be free from defects in workmanship and materials. Any defective hose will be replaced at no charge.

Jacket Construction

The jackets will be woven evenly and be free of defects, including knots, lumps, or unsightly disfigurations that could jeopardize the integrity of the hose assembly. The warp yarn shall consist of filament polyester yarn. The filler yarns shall be constructed of high strength, low elongation, filament polyester to reduce weight and increase flexibility.

Lining

The lining shall be a single-ply extruded tube of synthetic polyurethane to resist ozone. The polyurethane tube shall adhere to the jacket to prevent delamination. The finished product will meet and exceed all potable water Mil-H-24606B standards for the manufacturing of lightweight fire hose. The use of the polyurethane lined fire hose is designed to increase packing ability and applications where lightweight fire hose is desired.

Hydrostatic Testing

Stock Lengths: Standard lengths are 50 and 100 feet.

Size	1"	1-1/2"
Test Pressure	600psi	600psi
Elongation	4%	5%
Twist per foot	71° right	64° right
Warp	10"	10"
Rise	4	3
Burst Test	900psi	900psi
Kink Test	500psi	500psi

Finished Hose

Markings: Beginning at a point not less than four feet from the end, each fifty foot section shall be stencilled in indelible ink with letters at least one inch high stating the name of the manufacturer, month and year of manufacture, and service test to 300 PSI. The ink used will be of a contrasting color.

Methods Testing: All measurements and tests necessary to determine compliance of the fire hose specified requirements shall be made with ASTM, UL and NFPA 1961 designation, unless otherwise prescribed.

Couplings

Expansion ring threaded or as required by purchaser.

Weights & Measures

Part #	SP10-600-187	SP15-600-187
Coil Diameter	13"	14"
Size	1"	1-1/2"
Bowl Size	1-1/4"	1-3/4"
Weight per 100' length (uncoupled)	8	10
Weight per 100' length (coupled)	12	13

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. For more information, please contact your Key Fire Hose Corporation authorized distributor.

KEY FIRE HOSE CORPORATION

Visit us on the Web: www.keyfire.com

Forestry
Single Jacket Specification Sheet

- **600 Pound Test Heavy Duty Light Weight**
- **Polyurethane Lined**
- **1", 11/2"**

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. **Service Life:** Hose furnished under these specifications will have a potential service life **warranty of two years**; barring mistreatment that would render it unfit for service. Upon delivery, the hose shall be free from defects in workmanship and materials. Any defective hose will be replaced at no charge.

Jacket Construction

The jackets will be woven evenly and be free of defects, including knots, lumps, or unsightly disfigurations that could jeopardize the integrity of the hose assembly. The warp yarn shall consist of staple polyester yarn. The use of filament or entangled yarn is expressly forbidden due to the lack of inherent abrasion resistance. The filler yarns shall be constructed of high strength, low elongation, filament polyester to reduce weight and increase flexibility.

Abrasion Impregnation

Hose assemblies are available with polymer impregnation that provide additional abrasion resistance. Colors include: yellow, orange, red, tan, black, blue and green. Color shall be pure and even in each hose. Impregnated hose shall meet the requirements of Mil-H-24606B for abrasion resistance.

Lining

The lining shall be a single-ply extruded tube of synthetic polyurethane to resist ozone. The polyurethane tube shall adhere to the jacket to prevent delamination. The finished product will meet and exceed all potable water Mil-H-24606B standards for the manufacturing of lightweight fire hose. The use of the polyurethane lined fire hose is designed to increase packing ability and applications where lightweight fire hose is desired.

Hydrostatic Testing

Stock Lengths: Standard lengths are 50 and 100 feet.

Size	1"	1-1/2"
Test Pressure	600psi	600psi
Elongation	4%	5%
Twist per foot	71° right	64° right
Warp	10"	10"
Rise	4	3
Burst Test	900psi	900psi
Kink Test	500psi	500psi

Finished Hose

Markings: Beginning at a point not less than four feet from the end, each fifty foot section shall be stencilled in indelible ink with letters at least one inch high stating the name of the manufacturer, month and year of manufacture, and service test to 300 PSI. The ink used will be of a contrasting color.

Methods Testing: All measurements and tests necessary to determine compliance of the fire hose specified requirements shall be made with ASTM, UL and NFPA 1961 designation, unless otherwise prescribed.

Couplings

Expansion ring threaded or as required by purchaser.

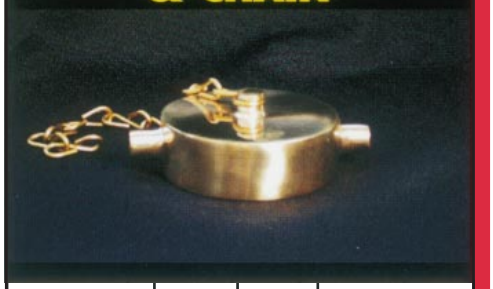
Weights & Measures

Part #	SP10-500PU	SP15-500PU
Coil Diameter	13"	14"
Size	1"	1-1/2"
Bowl Size	1-1/4"	1-3/4"
Weight per 50' length (uncoupled)	7	10
Weight per 50' length (coupled)	8	11

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. For more information, please contact your Key Fire Hose Corporation authorized distributor.

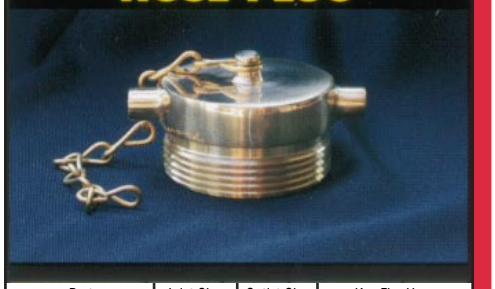
KEY INDUSTRIAL PRODUCTS

CAPS & CHAIN



Part Description	Inlet Size & thread	Outlet Size & thread	Key Fire Hose Part #
1.5" CAP	1.5" NST	N/A	Cap-15NH
2.5" CAP	2.5" NST	N/A	Cap-25NH

BRASS HOSE PLUG

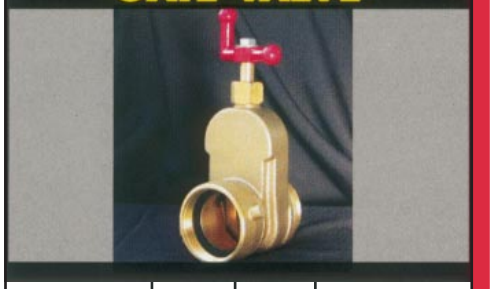


Part Description	Inlet Size & thread	Outlet Size & thread	Key Fire Hose Part #
Brass Hose Plug	1.5" NST	N/A	PLUG-15NH
Brass Hose Plug	2.5" NST	N/A	PLUG-25NH

REDUCER

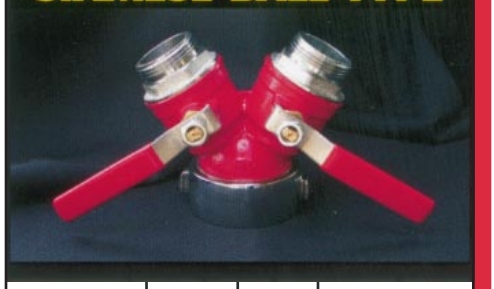
Part Description	Inlet Size & thread	Outlet Size & thread	Key Fire Hose Part #
2.5" x 1.5" Reducer	2.5" NST	1.5" NPSH	Reducer-25Hx15I
2.5" x 1.5" Reducer	2.5" NST	1.5" NST	Reducer-25Hx15H
2.5" x 5/8" Reducer	2.5" NST	5/8" GHT	Reducer-25Hx16G
2.5" x 2" Reducer	2.5" NST	2" NPSH	Reducer-25Hx20I

HYDRANT GATE VALVE



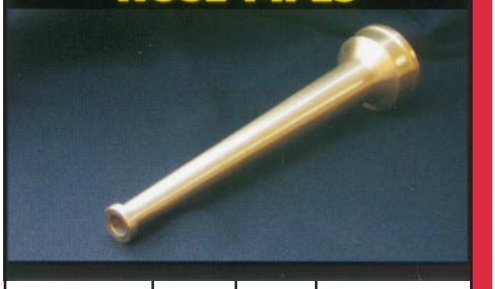
Part Description	Inlet Size & thread	Outlet Size & thread	Key Fire Hose Part #
Hydrant Gate Valve	2.5" NST	2.5" NST	Valve-HydGat25H

BRASS SHUT OFF SIAMESE BALL TYPE



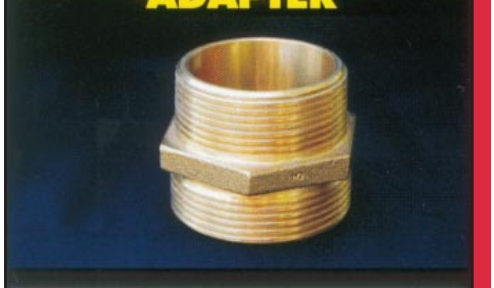
Part Description	Inlet Size & thread	Outlet Size & thread	Key Fire Hose Part #
Brass Shut Off Siamese Ball Type	2.5"NST	1.5" NST	Valve-SI25Hx15H

PLAIN HOSE PIPES



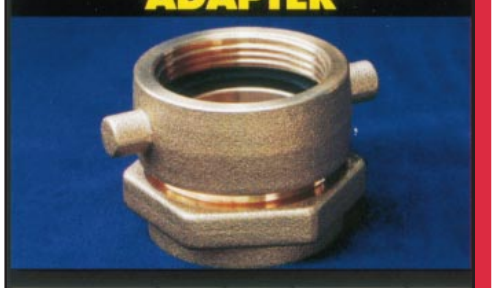
Part Description	Inlet Size & thread	Outlet Size & thread	Key Fire Hose Part #
1.5 x 10" Brass Plain Nozzle	1.5" NPSH	N/A	Nozzle-PL 15Ix10

DOUBLE MALE ADAPTER



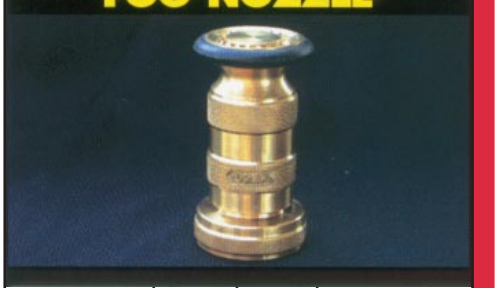
Part Description	Inlet Size & thread	Outlet Size & thread	Key Fire Hose Part #
Double Male Adapter	2.5" NPSH	2.5" NST	Adapt-M25IxM25H
Double Male Adapter	2.5" NST	2.5" NST	Adapt-M25HxM25H
Double Male Adapter	1.5" NPSH	1.5" NST	Adapt-M15IxM15H

DOUBLE FEMALE ADAPTER



Part Description	Inlet Size & thread	Outlet Size & thread	Key Fire Hose Part #
Double Female Adapter	1.5" NPSH	1.5" NPSH	Adapt-F15IxF15I

BRASS FOG NOZZLE



Part Description	Inlet Size & thread	Outlet Size & thread	Key Fire Hose Part #
1.5" Brass Fog Nozzle	1.5" NST	N/A	Nozzle-BN15
2.5" Brass Fog Nozzle	2.5" NST	N/A	Nozzle-BN25

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Combat-Ready

Aggressive Interior Attack Fire Hose

- 10 year warranty
- Low Friction Loss
- High Flow Capability
- Modern Fiber Technology
- Unique Construction
- Added Protection

Are You Really Ready?

Visit us on the Web: www.keyfire.com

Hose Construction

This hose is designed specifically for aggressive interior fire attack operations. The outer jacket is woven from staple polyester yarns over an inner liner consisting of a one-piece extruded through-the-weave tube. **Combat-Ready** is manufactured in a high-visibility white with one red and one blue stripe running the length of the hose. This heat resistant, drag resistant and kink resistant hose shall have superior friction loss characteristics.
Warranty: Hose shall carry a 10 year written warranty.

Inner Hose Properties

When the hose is tested in accordance with NFPA 1961, the liner or cover shall have the following properties:
Ultimate Tensile Strength – shall not be less than 1500 PSI
Ultimate Elongation – shall not be less than 400%
Permanent Set – shall not exceed 20%
Accelerated Aging Test – shall meet requirements of UL 19 for accelerated aging
Adhesion – between reinforcement and liner shall be a minimum of 20 pounds
Ozone Resistance – shall show no signs of visible cracking of the cover of liner when tested in accordance with ASTM D1149-91 and ASTM D518-86 (R91), Procedure B.
Chemical Resistance – Exposure to seawater and contamination by most chemicals will have no effect on the short or long term performance of the hose.

Safety Factors

Abrasion Resistance – bears a direct relationship to the safe performance of the fire hose. The UL abrasion test most closely resembles the fire ground use of fire hose and as such, is considered of prime importance. Hose meeting all of the abrasion resistance safety factors below shall do so without exceeding average weights.
UL Abrasion – The hose shall pass a burst test after 5000 cycles on a reciprocating abrasion tester – as specified in UL Standard 19.

Combat Ready Specifications

1 3/4" and 2 1/2"

Factory Mutual Abrasion – A sample of coupled hose is submitted to the procedure listed in FM Standard 2111 or MIL-H-24606B, there shall be no signs of leakage after 20,000 cycles of abrasion.
Cold Resistance Safety Factor – Hose shall be capable of safe use down to –50 degrees F. The 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 coiled and placed in a cold box at –50 degrees for 24 hours. The hose shall not show any damage to the reinforcement when subjected to hydrostatic acceptance test pressure.
Flashover Resistance Safety Factor – Heat resistance is of the utmost importance when evaluating interior attack hose. This hose shall meet the safety factors for heat resistance without exceeding the normal fire hose weight. The hose shall be subjected to a static pressure of 100 PSI and be capable of withstanding a surface temperature of 1200 degrees F for a minimum of 45 seconds without bursting.
Water Pick-up Weight – The tendency for a hose to absorb water while in a wet environment can create significant handling difficulties. When tested against the procedure listed in MIL-H-24606B, the maximum weight gain shall not exceed 3 lbs. per 50 foot length.
Burst Resistance Safety Factor – Hose failure due to bursting is the single most important safety concern. Hose shall have the capability of passing a 500 PSI service test with a 1/4" diameter hole through both jacket and liner. Only a through-the-weave design liner will be acceptable. Hose shall have a minimum burst pressure of 1500 PSI.
Hydrostatic Pressure Tests – The hose shall comply with the National Fire Protection Association Standard NFPA 1961.

Physical Data

DIAMETER	SERVICE PRESSURE	ACCEPTANCE PRESSURE	KINK PROOF PRESSURE	SHORT LENGTH BURST	CURVED LENGTH BURST	AVERAGE WEIGHT 50– COUPLED	COIL SIZE 50– COUPLED
1 3/4"	500 PSI	1000 PSI	750 PSI	1500 PSI	1500 PSI	18 LBS	16.5"
2 1/2"	500 PSI	1000 PSI	750 PSI	1500 PSI	1500 PSI	26 LBS	18.5"

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KEY FIRE HOSE CORPORATION

WATER FLOW LOSS

(PSI PER 100 FEET OF HOSE)

FLOW OF WATER IN US GAL. PER MIN.	ACTUAL INTERNAL DIAMETER INCHES								
	1"	1-1/2"	1-3/4"	2"	2-1/2"	3"	3-1/2"	4"	5"
40	44.7								
45	55.0								
50	67.5								
60	94.3	8.7	4.9	2.2	0.73				
70	126.0	11.9	6.6	2.9	0.98				
80		15.4	8.6	3.9	1.3				
90		19.5	10.9	4.9	1.7				
100		24.1	13.5	6.1	2.0				
110		29	16.3	7.3	2.4				
120		34.6	19.4	8.6	2.9				
130		40.6	22.8	10.2	3.5				
140		47.0	26.5	11.8	4.0				
150		54.0	30.4	13.5	4.5				
160		61.4	34.6	15.4	5.1				
180		77.8	43.7	19.4	6.5				
200			54.0	24.1	8.1	3.3			
220			65.3	29.0	9.7	4.0			
240			77.8	34.6	11.5	4.6			
250			84.4	37.5	12.6	5.0			
280			105.8	47.0	15.7	6.4			
300				54.1	18	7.2			
320				61.4	20.5	8.2			
340				69.4	23.1	9.3			
350				77.9	24.5	9.9			
380				86.6	28.9	11.6			
400				96.1	32.1	12.9	6.3	3.2	1.1
450					35.4	16.3	7.9	4.1	1.3
500						20.0	9.6	5.0	1.7
550						24.2	11.6	6.0	2.0
600						28.8	13.5	7.3	2.3
650						33.9	15.5	8.6	2.9
700						39.3	17.7	9.7	3.2
750						45.0	20.2	11.5	3.7
800						51.2	22.7	12.4	4.2
850						57.8	25.4	14.3	4.8
900						64.8	28.2	15.9	5.4
950						72.2	31.3	17.6	6.1
1000							34.1	19.2	6.6
1050							37.6	21.2	7.4
1100							41.1	23.3	8.0
1150							45.0	25.4	8.7
1250							53.1	30.0	10.3
1300							57.1	32.4	11.2
1400							66.7	37.7	12.9
1500							76.5	43.2	15.0
1750								58.8	20.2

NOTE: The pressure loss experienced by a liquid flowing through a hose depends on the rate of flow , the viscosity of the liquid, the hose I.D..the smoothness of the tube and the hose length. This chart shows the relationship between rate of flow,I.D., and the pressure loss

The pressure loss is directly proportional to the length of the hose, therefore the data shown can be easily extended by use of proportions , e.g., the pressure drop for 50 feet of hose length is half that for 100 ft. NOTE:To find cubic ft/min. multiply GPM x .13380