

## HOSE SECTION INDEX

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# NIEDNER

Light on Weight — Heavy on Technology

## Municipal Hose

### XL-800

General specifications covering lightweight T.P.U. lined, Municipal fire hose manufactured by NIEDNER in sizes 1.5" (38 mm), 1.75" (45mm), 2" (50 mm), 2.5" (65 mm) and 3" (76 mm).

### XL-800

Test pressure: 800 PSIG (5600kPa)

Specification: The hose shall be of double jacket construction with 100% spun polyester yarn in both jackets. There shall also be a minimum of 10 filler yarns per inch in both jackets.

The thickness of the lining shall be .020" minimum and it shall be constructed of T.P.U. elastomer.

The outside jacket shall be treated with ENCAP™ elastomer which shall completely encapsulate the jacket fibers and not merely surface coat the jacket.

The hose shall remain flexible to -60° F (-51° C).



For more information please call Williams Fire & Hazard Control, Inc®

SPECIFICATIONS			
Size:		Weight/50' unclpd	Coil diameter:
1.5"	(38mm)	11.5 lbs.	15.0" (38 cm)
1.75"	(45mm)	13.0 lbs.	15.0" (38 cm)
2"	(50mm)	15.5 lbs.	15.5" (39 cm)
2.5"	(65mm)	20.0 lbs.	16.0" (41 cm)
3"	(76mm)	26.0 lbs.	16.0" (41 cm)

HYDROSTATIC SPECIFICATIONS				
Service Test Pressure	400 PSIG			
Proof Pressure:	800 PSIG			
Elongation:	10%			
Warp:	20"			
Rise:	0"			
Kink burst:	600 PSIG (450-3")			
Burst:	1200 PSIG			
PHYSICAL PROPERTIES				
Spec Number	Size	Wt/50 ft. Uncpld	Coil Dia. per 50 ft.	Coupling Bowl Size
4015	1.5"	11.5 lbs.	15.0"	1.9375"
4017	1.75"	13.0 lbs.	15.0"	2.0625"
4020	2"	15.5 lbs.	15.5"	2.3125"
4025	2.5"	20.0 lbs.	16.0"	3"
4030	3"	26.0 lbs.	16.0"	3.5625"



## NIEDNER

When the going gets tough, SUPPLYLINE.....gets going.

### SupplyLine

General specifications covering lightweight T.P.U. lined, large diameter fire hose manufactured by Niedner in sizes 4", 5" and 6".

### SupplyLine

Provided with Storz and optional ENCAP™ treatment. Yellow color. Specification: The hose shall be of double jacket construction with 100% polyester yarn in both jackets. There shall be a minimum of 13 filler yarns per inch in the inner jacket and a minimum of 10.5 filler yarns per/inch in the outer jacket of the 4". There shall be a minimum of 14 filler yarns per inch in the inner jacket and a minimum of 10 filler yarns per inch in the outer jacket of the 5" (125 mm). The thickness of the lining shall be .020" (.504 mm) for the 4" (100 mm) and .020" (.504 mm) for the 5" (125 mm). It shall be extruded from clear T.P.U. elastomer. The maximum weight of a 50 foot (15m) length of hose, uncoupled, shall be 34 lbs. (15.4 kg) for 4" and 42 lbs. (19.0 kg) for 5". The hose shall remain flexible to -60° F (-51° C). Options: The outside jacket shall be treated with ENCAP™ elastomer which shall completely encapsulate the jacket fibers and not merely surface coat the jacket.



### SupplyLine

Higher burst pressure	Less elongation when pressurized
Higher test pressure	Less weight
Higher kink burst	Less drag resistance
Greater abrasion resistance	Less bulk
Flexibility to -60° F (-51° C)	Less storage space required
Easier to load and unload	Low maintenance

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SIZE	4"	5"	6"
Proof Pressure:	600 PSIG	600 PSIG	600 PSIG
Service test pressure:	300 PSIG	300 PSIG	300 PSIG
Coil Diameter (100' lengths)	24" (61 cm)	25" (64 cm)	26" (67 cm)
Weight cpd (100' lengths)	82 lbs	102 lbs	150 lbs



## DOUBLE-5 BRAND

**Product:**  
**DOUBLE-5 BRAND™ Hose**

**Description:**

Double Jacket all polyester hose intended to transfer large volumes of water with minimal friction loss. Lightweight and compact, occupies less space than conventional single jacket hose. Flexible to -60°F (-51° C).

**Construction:**

Circular woven double jacket 100% virgin polyester.

**Tube:**

Extruded elastomer - Ozone and age resistant.

**Length:**

Up to 250'

**Standard Features:**

ENCAP™ encapsulation

Custom 7.25-6" Storz Couplings



Hose Size	Spec Number	Weight 100'	Proof Pressure	Service Test Pressure	Burst Pressure
7.250" 184 mm	7000	160 lbs 48.5 kg	600 PSIG 4200 kPa	300 PSIG 2100 kPa	750 PSIG 5171 kPa

For US and Foreign Patent and Trademark information, please refer to page IP2



# Friction Loss in Rubber or Vinyl Lined Fire Hose

hose

hose

Flow in U.S. Gallons Per Minute	Pressure Loss in PSI per 100' Hose										
	Hose Diameters										
	1.5"	1.75"	2.0"	2.5"	3"	3.5"	4"	5"	6"	7.25"	
10											
20											
30											
40	4.5	3	1								
60	10	5	2.5								
95	22	11	5								
100	25	12	6	3	1						
125	37	21	10	4	1						
150	54	26	13.5	6	2						
175		34	18	8	3						
200		45	24	10	4	2					
225		57	30	12	4.5	2					
250		70	37.5	15	6	2.5					
275		82	45	17.5	7	3					
300		95	54	21	8	3.5	2				
325			65	24.5	9.5	4	2.5				
350			78	28	11	5	2.5				
400			96	36	14	6	3	1			
450				45	17.5	8	4	1.5			
500				55	21	9.5	5	2			
550					25.5	11.5	6	2			
600					30	13.5	7	2.5			
650					35	15.5	8.5	3			
700					40.5	18	9.5	3.5	1		
750					46	20	11.5	4	1		
800					53	23	12.5	4.5	1.5		
850						25.5	14.5	5	1.5		
900						28	16	5.5	2		
950						31	17.5	6	2		
1000						34	19	6.5	2.5		
1100						41	23	8	3	1	
1200						49	27.5	9.5	4	1.2	
1300						57	32.5	11	4.5	1.4	
1400							66.5	38	13	5	1.5
1500							76.5	43	15	6	2
1750								59	20	8	2.5
2000								77	26.5	10.5	3
2500									41.5	16.5	4.8

NOTE: These friction loss figures will vary accordingly with age and manufacturer of hose

