



Pin Rack Hose Assembly



pin rack assembly

- Components include: rack nipple, U/L 300 PSI angle valve, semi-automatic fire hose pin rack, brass rack nozzle, and a length of 1½" pin rack hose
- U/L listed and Factory Mutual approved

NH (NST) Thread	Hose	Part #	Wt. Lbs.
1½"	50'	FHPR150-50CBF	20
1½"	75'	FHPR150-75CBF	25
1½"	100'	FHPR150-100CBF	30



Semi Automatic Fire Hose Pin Rack



pin rack

- red steel enameled
- holds up to 100' of either 1½" or 2½" rack hose
- 1½" is U/L listed and Factory Mutual approved

Hose Size	For use with:			Part #	Powhatan Part #	Wt. Lbs.
	Size	Valve	Nipple			
1½"	1½"	AVF150	PRN150F	FHPR150	30-333-00038	4.4
1½"	2½"	AVF250	PRN250F	FHPR2515	30-333-00019	4.5

Pin Rack Cover



pin rack cover

- 10 oz. red vinyl with Velcro™ closures

Size	Use with	Part #	Wt. Lbs.
25" x 30" x 6"	FHPR150	PRC	1.2

Pin Rack Nipples



rack nipple

- material: *brass*
- finish: -C polished chrome plated

Male NPT	Male NH (NST)	Part #	Powhatan Part #	Wt. Lbs.
1½"	1½"	PRN150F	14-136-00287	0.8
1½"	1½"	PRN150F-C	14-136-00305	0.8
2½"	2½"	PRN250F	14-136-00288	2.2
2½"	2½"	PRN250F-C	14-136-00462	2.2

Pin Rack Wall Bracket



wall bracket

- aluminum wall bracket used to support hose rack independent of stand pipe valve

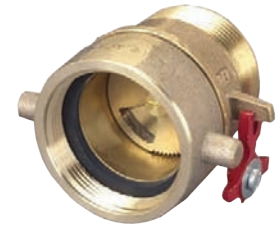
Part #	Powhatan Part #	Wt. Lbs.
PRWB	46-019-01561	0.7

Adjustable Pressure Restricting Device



- material: *cast brass*
- intended for installation on Class I or Class III standpipe system hose outlets
- Use of this device restricts pressure in the piping system to such a degree that hose lines can be handled by persons untrained in the handling of heavy fire streams.
- New York City Board of Standards and Appeals, approval # MEA 54-07-E
- 2½" U/L listed
- working pressure: **175 PSI**

Female Thread	Male Thread	Part #	Powhatan Part #	Wt. Lbs.
1½" NH (NST)	1½" NH (NST)	APRD150F	18-255-00102	3.0
2½" NH (NST)	2½" NH (NST)	APRD250F	18-255-00011	4.3
2½" NYC	2½" NYC	APRD250NYC	18-255-00015	4.4
1½" NYFD	1½" NYFD	APRD150NYFD	18-255-00105	3.1
2½" NYFD	2½" NYFD	APRD250NYFD	18-255-00019	4.5

female x male
18-255

Domestic Cast Angle Hose Valves



18-157 / 18-158

- U/L listed and FM approved
- material: *cast brass with an aluminum hand wheel*
- working pressure: **300 PSI**

Inlet Female NPT	Outlet Male Thread	Part #	Powhatan Part #	Wt. Lbs.
1½"	1½" NH (NST)	AV150	18-157-00010	4.4
	1½" NYFD	AV150NYFD	18-157-00016	4.4
	1½" NPSH	AV150S	18-157-00005	4.4
	1½" NPT	AV150T	18-157-00329	4.4
2½"	2½" NH (NST)	AV250	18-157-00388	9
	2½" NYC	AV250NYC	18-157-00391	9
	2½" NYFD	AV250NYFD	18-157-00412	9
	2½" PITT	AV250PITT	18-157-00387	9
	2½" NPSH	AV250S	18-157-00426	9

female x male
18-157female x female
18-158

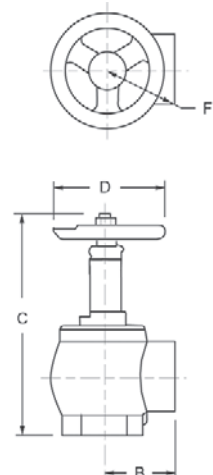
Inlet Female NPT	Outlet Female NPT	Part #	Powhatan Part #	Wt. Lbs.
1½"	1½"	AVF150	18-158-00004	3.6
2½"	2½"	AVF250	18-158-00055	9.5

Replacement Parts

Description	Part #	Powhatan Part #	Wt. Lbs.
handwheel for 1½" valve	AV150-W	46-019-01455	.22
handwheel for 2½" valve	AV250-W	46-019-01456	.32
handwheel nut for 1½" valve	AV150-N	46-011-00948	.01
handwheel nut for 2½" valve	AV250-N	46-011-00947	.01
valve seal rubber for 1½" valve	AV150-RBR	46-012-01415	.03
valve seal rubber for 2½" valve	AV250-RBR	46-012-01416	.10

Dimensions

Size	A	B	C closed	C open	D	F
1½"	2-11/64"	2-7/32"	6-5/8"	7-21/32"	3-3/4"	2-13/16"
2½"	3-3/16"	3-3/16"	9-1/4"	11"	5"	3-19/32"





FIREFIGHTING EQUIPMENT DATA SHEET

FEATURES

- Compact storage area
- Reduced weight
- Minimum twist, warp and elongation
- Maximum strength-to-weight ratio
- Maximum cold temperature resistance
- Maximum resistance to mildew, deterioration, ozone and cracking
- Increased flow
- Decreased friction loss
- Replaces unlined linen foot for foot
- TPU® elastomer tubing
- Meets or exceeds NFPA 1961 specifications

DESCRIPTION

The RACKHOSE-500 Fire Hose is a high quality, single jacket, multi-purpose hose that is virtually maintenance free. Lightweight and compact, the hose replaces unlined linen hose foot for foot. The hose is approximately half the weight of standard rubber lined, single jacket fire hose.

The TPU® lining is an elastomeric polymer made from a polyester-polyether compound. The manufacturing process extrudes this lining thus ensuring the tightest quality control. TPU is resistant to pure mineral oils, petroleum, hydrocarbons, most solvents and greases, weathering, ozone and ultraviolet light. The tear strength is three times greater than rubber and it is immune to aging and microbial attack.

Construction - Circular woven, single jacket 100% virgin filament polyester

Tube - Extruded TPU elastomer

Length - 50 ft. to 100 ft. (15.2 to 30.5 m)

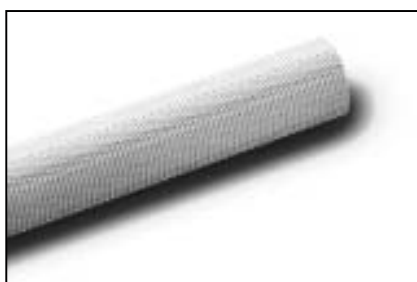
Jacket Treatment - White only

APPLICATIONS

All polyester single jacket hose is used on pin type hose racks to provide emergency interior protection for buildings and plants.



006022



006023

SPECIFICATIONS

The hose shall be of single jacket construction with 100% virgin filament polyester.

There shall be a minimum of 10.0 filler yarns per inch in the jacket.

The thickness of the lining shall be 0.012 in. (30.5 µm) minimum and it shall be constructed of extruded TPU elastomer.

The hose service temperature range shall be - 60 °F to 140 °F (-51 °C to 60 °C).

At 500 psig (35 bar), its elongation shall not exceed 8% of the initial hose length, it shall not warp more than 20 in. (508 mm) and should not rise from the test table.

The hose shall not twist more than 5 turns per 50 ft. (15.2 m) while at 500 psig (35 bar).

Minimum service test pressure of 250 psig (17 bar).

Minimum proof test pressure of 500 psig (35 bar).

Minimum straight burst test pressure of 750 psig (52 bar).

The hose while curved to a radius of 27 in. (686 mm) shall not burst at less than 750 psig (52 bar).

Meets or exceeds NFPA 1961 and UL-19 specifications.

Meets and approved by Factory Mutual (FM).

RACKHOSE - 500 FIRE - HOSE

STANDARD HOSE

ORDERING INFORMATION

RACKHOSE-500 Fire Hose is delivered folded unless specified coiled at time of order. If folded, please specify number of pin folds required. Standard: 100 ft. - 24 pins; 75 ft. - 19 pins; 50 ft. - 16 pins.

CUSTOM HOSE OPTIONS

- Diameter: 1 1/2 or 2 1/2 in. (38 or 64 mm)
- Length: 50, 75, 100 ft. (15.2, 22.9, 30.5 m) or specify length
- Coupling type: aluminum, chrome, brass
- Coupling lug: pin or rocker
- Thread type: NST, NPSH/SIPT/IPT
- Threads: specify OD and ID major and minor

Call your authorized Niedner distributor for price, features and availability.

NIEDNER PO BOX20,
Coaticook, QC Canada J1A 2S8
Tel : (819) 849-2751 Fax : (819) 849-7539
Web : www.niedner.com

PHYSICAL PROPERTIES - RACKHOSE-500

Hose Diameter	Coupling Bowl Size	Weight Uncoupled 50 ft. (15.2 m)	Coil Diameter Per 50 ft. (15.2 m)	Minimum Kink Burst Test Pressure	Flow US GPM (LPM) Friction Loss Per 50 ft. - PSIG (Bar)					
					60 (227)	100 (379)	150 (568)	175 (662)	200 (757)	300 (1136)
1 1/2 in. (38 mm)	1 11/16 in. (42.9 mm)	6.25 lb. (2.8 kg)	14 in. (356 mm)	500 psig (35 bar)	5.7 (.4)	14.7 (1.0)				
2 1/2 in. (64 mm)	2 11/16 in. (68.3 mm)	11.0 lb. (5.0 kg)	17 in. (432 mm)	500 psig (35 bar)			2.9 (.2)	3.9 (.3)	4.9 (.3)	10.5 (.7)

Brass Plain Hose Nozzles

- material: *brass*
- finish: *satin*
- for use up to **100 PSI** (water only)

Size	Thread	Length	Orifice	Part #	Powhatan Part #	Wt. Lbs
¾"	GHT	6"	1/4"	BN6	03-107-00005	0.4
¾"	NPSH	6"	1/4"	BN7	03-107-00001	0.4
1"	NPSH	8"	5/16"	BN10	03-107-00010	0.5
1¼"	NPSH	10"	3/8"	BN12	03-107-00026	1.0
1½"	NPSH	10"	1/2"	BN15	03-107-00049	1.1
2"	NPSH	12"	9/16"	BN20	03-107-00154	2.6
2½"	NPSH	12"	1"	BN25	03-107-00172	3.4
1"	NH (NST)	8"	5/16"	BN10F	03-107-00015	0.7
1½"	NH (NST)	10"	1/2"	BN15F	03-107-00053	1.2
2½"	NH (NST)	12"	1"	BN25F	03-107-00169	2.8
1½"	NYFD	10"	1/2"	BN15NYFD	03-107-00062	1.0
2½"	NYFD	12"	1"	BN25NYFD	03-107-00176	3.4



plain nozzle
03-107

All nozzles are made to approved Dixon Powhatan specifications. The Powhatan part numbers provided in this chart are for quick reference purposes.

Domestic Brass Rack Nozzles



- supplied without bumper
- delivers 30° - 60° - 90° fog pattern
shut-off - straight stream - fog
- for use up to **100 PSI** (water only)
- U/L listed and Factory Mutual approved for class A and B fires

Size	Thread	90° Spray GPM @ 100 PSI	Part #	Powhatan Part #	Wt. Lbs.
1½"	NH (NST)	80	BRN150NST	02-465-00001	1.4



rack nozzle
02-465

Global Brass Rack Nozzles



- supplied without bumper
- delivers 30° - 60° - 90° fog pattern
shut-off - straight stream - fog
- for use up to **100 PSI** (water only)
- U/L listed and Factory Mutual approved for class A and B fires

Size	Thread	90° Spray GPM @ 100 PSI	Part #	Wt. Lbs.
1½"	NH (NST)	80	BRN150NST-I	1.3



rack nozzle
BRN150NST-I

FIRE HOSE RACK

BRAND NAME : **DIXON-POWHATAN**
COUNTRY : **U.S.A.**
PART : **FHPR150-100CBF**
SIZE : **1.1/2" x 100 FT.**
APPROVED : **UL/FM APPROVED**

MATERIAL OF CONSTRUCTION AND ACCESSORIES

CONSIST OF :

- STEEL FIRE HOSE PIN RACK, RED**
PART : FHPR150, 1.1/2" UL/FM APPROVED
- PIN RACK NIPPLE**
PART : PRN150F, 1.1/2" POLISHED BRASS
- CAST BRASS ANGLE VALVE**
PART : AVF150, 1.1/2" UL/FM APPROVED
- "NIEDNER" MODEL RACK HOSE 500**
SIZE 1.5" X 100 FT., FM APPROVED
100% VIRGIN FILAMENT POLYESTER
SINGER JACKET WITH BRASS
PIN LUG COUPLING 1.5"
- ADJUSTABLE FOG NOZZLE**
PART : BRN150NST, 1.1/2" UL/FM APPROVED