

# PHARMALINE<sup>®</sup> N

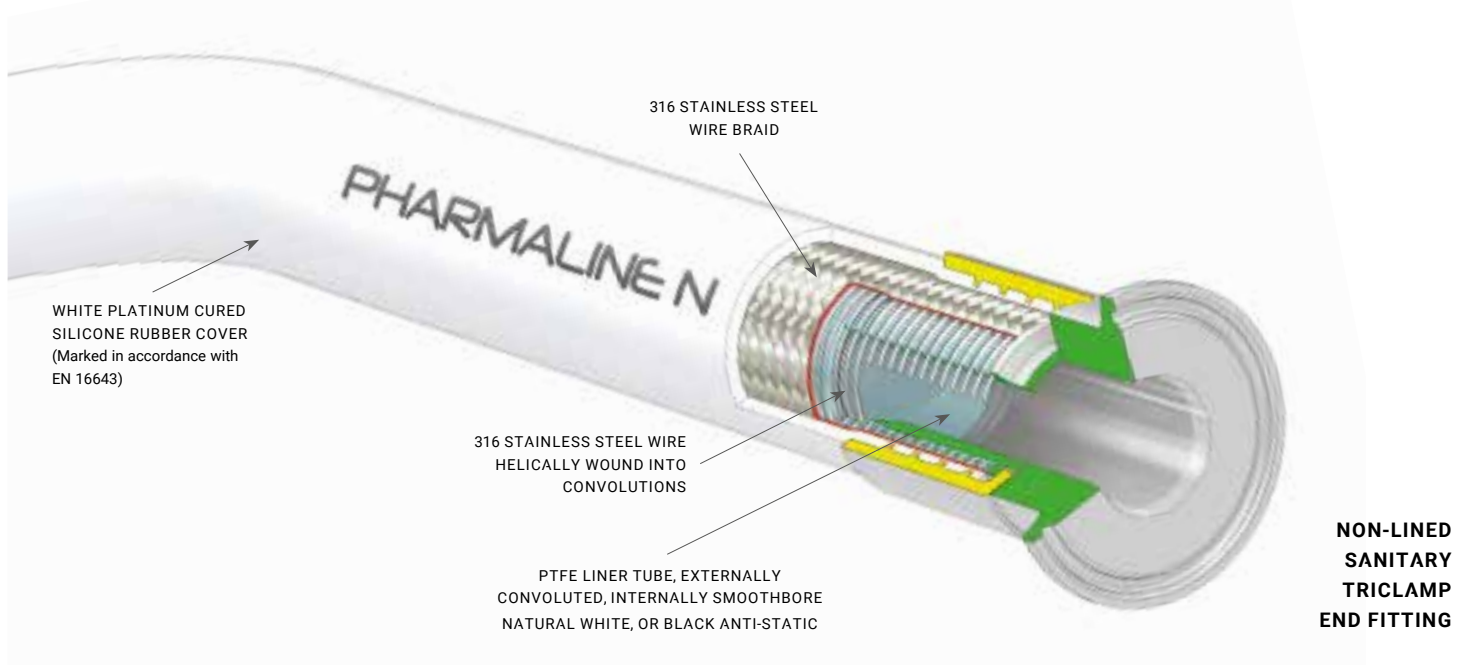
PTFE Hose for biotechnology and pharmaceutical fluid transfer

Provided by:

**Holland<sup>®</sup>**  
**APPLIED TECHNOLOGIES**  
[www.hollandapt.com](http://www.hollandapt.com)  
Phone: 800-800-8464

Replaces silicone rubber hose in applications where total internal chemical resistance is required

## PHARMALINE N PTFE HOSE ASSEMBLY



## PHARMALINE N HOSE SPECIFICATIONS

### HOSE BORE SIZE RANGE -

1/4" (6.4MM) UP TO 3" (80MM)

### HOSE LENGTHS -

100 FEET (30 METERS) UP TO 2", 59 FEET (18 METERS) UP TO 2 1/2",  
49 FEET (15 METERS) UP TO 3"

### TEMPERATURE LIMITS -

FROM -100°F (-73°C) UP TO +400°F (+204°C)

### WORKING PRESSURE RATINGS -

1160 PSI (80 BAR) FOR 1/4" TO 218 PSI (15 BAR) FOR 3"

### VACUUM LIMITATIONS -

USABLE AT VACUUM TO -0.9BAR FOR ALL SIZES UP TO 302°F (150°C)

### END FITTING OPTIONS *Non-Lined design for:*

SANITARY TRICLAMP FITTINGS, ANSI 150 FLANGE FITTINGS, DIN FITTINGS, CAM & GROOVE FITTINGS AND MORE. LASER ETCHED FERRULE FOR ULTIMATE TRACEABILITY.

FOR THE FULL PHARMALINE N HOSE BROCHURE PLEASE VISIT - [WWW.AFLEX-HOSE.COM](http://WWW.AFLEX-HOSE.COM)

## SPECIFICATIONS FOR PHARMALINE N HOSE GRADES

Nominal Hose Bore Size		Actual Hose Bore Size		Helix Wire	Outside Diameter of Cover		Minimum Bend Radius		*Maximum Working Pressure		Burst Pressure		Weight per Unit Length	
in	mm	in	mm		in	mm	in	mm	Psi	Bar	Psi	Bar	lb/ft	Kg/Mtr
1/4	6.4	0.260	6.6	-	0.460	11.6	3/4	19	1160	80	4641	320	0.11	0.17
3/8	9.5	0.382	9.7	-	0.610	15.5	1	25	1015	70	4061	280	0.14	0.22
1/2	12.7	0.516	13.1	√	0.845	21.4	1 1/2	38	870	60	3480	240	0.25	0.37
5/8	16.0	0.638	16.2	√	0.990	25.2	2	50	725	50	2900	200	0.35	0.52
3/4	19.0	0.760	19.3	√	1.120	28.5	2 1/2	63	655	45	2610	180	0.42	0.65
1	25.4	1.012	25.7	√	1.455	37.0	4	100	580	40	2320	160	0.57	0.88
1 1/4	32.0	1.268	32.2	√	1.755	44.6	5 1/4	130	510	35	2030	140	0.85	1.30
1 1/2	38.0	1.516	38.5	√	2.035	51.7	6.70	170	435	30	1740	120	1.14	1.70
2	50.0	2.012	51.1	√	2.580	65.6	8.27	210	405	28	1624	112	1.58	2.36
2 1/2	65.0	2.508	63.7	√	3.169	80.5	11.81	300	290	20	1100	80	2.41	3.59
3	80.0	3.024	76.8	√	3.654	92.8	13.78	350	218	15	870	60	2.96	4.40

\* Maximum Working Pressures vary with temperature as in graph below

### \*MAXIMUM WORKING PRESSURES (MWP)

The lesser of the MWP for the hose and the MWP of either of the end fittings.

### TEMPERATURE LIMITATIONS

Usable from -100°F (-73°C) up to +400°F (+204°C)

### VACUUM LIMITATIONS

Pharmaline N hose is usable at vacuum to -0.9bar up to 302°F (150°C).

### ROLLING U TEST FOR FLEX LIFE

(View this in the 'Videos' section of our website)

More than 15x the flex life to failure compared with other types of rubber covered, smoothbore PTFE lined hose products.

### FLEXIBILITY

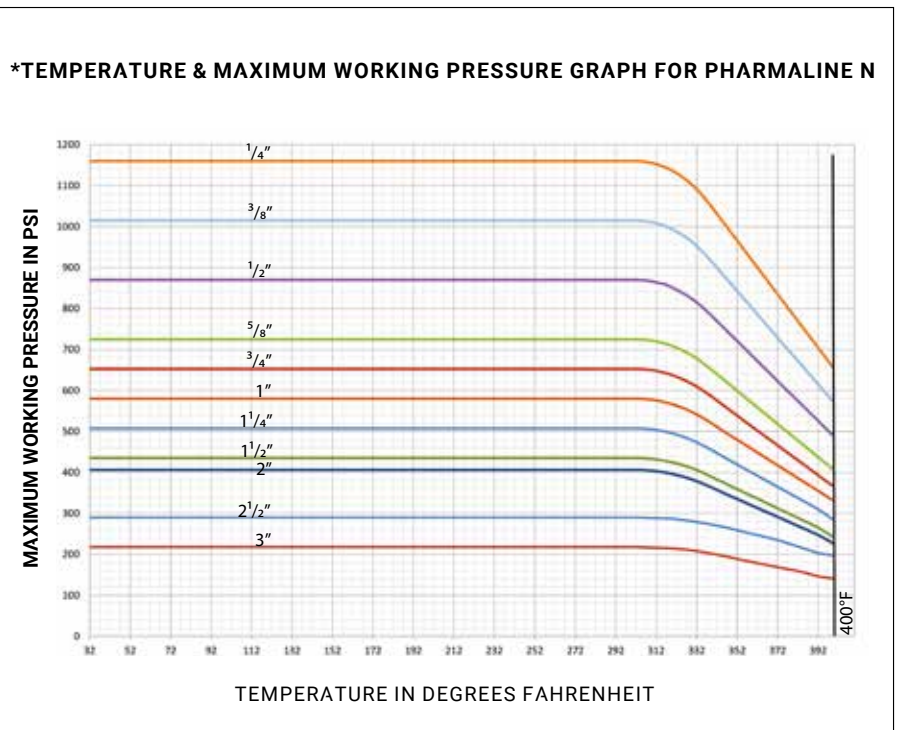
Much less force to bend than any other equivalent smooth bore PTFE lined hose product.

### KINK RESISTANCE (See website for video)

Much more resistant to kinking than any other equivalent smooth bore PTFE lined hose product.

### SOAKABLE

Pharmaline N hose assemblies are soakable.



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Provided by:



A member of Watson-Marlow Fluid Technology Group.  
A Spirax-Sarco Engineering plc company

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