

# Pharmaline N



Pharmaline N and X

## Features and benefits

- Replaces silicone rubber hose in applications where total internal chemical resistance is required
- Smooth bore for uninterrupted fluid flow and ease of cleaning
- Very flexible, yet kink resistant with a natural or anti-static PTFE liner
- Range of non-lined end fittings with laser etched ferrule for ultimate traceability
- Fully encapsulated hygienic labeling system available
- Assemblies suitable for COP soaking, CIP and SIP cleaning, and extensive autoclave sterilizing cycles



## Pharmaline N performance

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	1,160	80	4,641	320	0.11	0.17
1/4	9.5	0.382	9.7	-	0.610	15.5	1	25	1,015	70	4,061	280	0.14	0.22
1/2	12.7	0.516	13.1	✓	0.845	21.4	1 1/2	38	870	60	3,480	240	0.25	0.37
1/2	16.0	0.638	16.2	✓	0.990	25.2	2	50	725	50	2,900	200	0.35	0.52
1/2	19.0	0.760	19.3	✓	1.120	28.5	2 1/2	63	655	45	2,610	180	0.42	0.65
1	25.4	1.012	25.7	✓	1.455	37.0	4	100	580	40	2,320	160	0.57	0.88
1 1/4	32.0	1.268	32.2	✓	1.755	44.6	5 1/4	130	510	35	2,030	140	0.85	1.30
1 1/2	38.0	1.516	38.5	✓	2.035	51.7	6.70	170	435	30	1,740	120	1.14	1.70
2	50.0	2.012	51.1	✓	2.580	65.6	8.27	210	405	28	1,624	112	1.58	2.36
2 1/2	65.0	2.508	63.7	✓	3.169	80.5	11.81	300	290	20	1,100	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. The maximum working pressure (MWP) of a hose assembly is limited to the lowest of the MWP's of either of the two end fittings, or of the hose itself as listed above. The MWP of the hose reduces as the operating temperature increases, consult Aflex Hose for guidance.

## Technical specifications

	Pharmaline N
Nominal bore size	6.4 - 80 mm
Nominal bore size	0.25 - 3 in
Actual bore size	6.8 - 76.8 mm
Actual bore size	0.27 - 3.024 in
Outside diameter	11.6 - 92.8 mm
Outside diameter	0.46 - 3.654 in
Max. operating pressure	80 bar
Max. operating pressure	1160 psi
Burst pressure	60 - 320 bar
Burst pressure	870 - 4,641 psi
Certification	(EU) 10/2011, 3.1 Traceability, 3-A 62-02, ATEX, EN16643:2016, FDA (materials), USP Class VI
Operating temperature range	-73 to 204 °C
Operating temperature range	-100 to 400 °F
Bend radius	19 - 350 mm
Bend radius	0.75 - 13.78 in
Braid	Stainless steel
Cover	Silicone rubber
End fitting	BSP 60° cone seat female fittings, CAM and groove fittings, Grooved standpipe fittings, JIC fittings, NPT and BSPT fittings, PTFE dip pipe fittings, Swivel flange fittings
Labelling options	Color coding, Standard, Streamline tagging
Vacuum resistance	Vacuum resistant to -0.9bar up to 150C (302F)

## Materials of construction

	Pharmaline N
Helical wire	Stainless steel 316
Liner tube	Antistatic PTFE, Natural PTFE
Wire braid	Stainless steel

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