

Pharmaline N and X Specifications & Properties

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	0.270	6.8	-	0.460	11.6	3/4	19	1100	80	4641	320	0.11	0.17
3/8	9.5	0.375	9.5	-	0.610	15.5	1	25	1000	70	4061	280	0.14	0.22
** 1/2	12.7	0.500	12.7	-	0.770	19.5	1 1/2	38	870	60	3480	240	0.25	0.37
** 5/8	16.0	0.625	16.0	-	0.960	24.4	2	50	725	50	2900	200	0.35	0.52
** 3/4	19.0	0.750	19.0	√	1.070	27.3	2 1/2	63	650	45	2610	180	0.42	0.65
** 1	25.4	1.000	25.4	√	1.370	34.8	4	100	580	40	2320	160	0.57	0.88
1 1/4	32.0	1.280	32.5	√	1.785	45.3	5 1/4	130	500	35	2030	140	0.85	1.30
1 1/2	38.0	1.530	38.8	√	2.035	51.7	6.70	170	430	30	1740	120	1.14	1.698
2	50.0	2.030	51.5	√	2.560	65.7	8.270	210	400	28	1624	112	1.58	2.355

* Maximum Working Pressures vary with temperature as in graph below

** These sizes will be revised from 1st September to have slightly larger actual bore and OD dimensions, and 1/2" and 5/8" to have a helix wire

Specifications for Pharmaline X 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	0.270	6.8	-	0.456	11.6	1 1/4	30	109	7.5	435	30	0.06	0.09
3/8	9.5	0.375	9.5	-	0.610	15.5	1 1/2	38	87	6.0	348	24	0.09	0.14
1/2	12.7	0.530	13.5	√	0.845	21.4	2 3/8	60	84	5.8	334	23	0.21	0.32
5/8	16.0	0.650	16.5	√	0.990	25.2	2 1/2	64	72	5.0	290	20	0.19	0.29
3/4	19.0	0.780	19.8	√	1.120	28.5	3	75	72	5.0	290	20	0.37	0.55
1	25.4	1.030	26.1	√	1.455	37.0	4 3/4	110	60	4.0	240	16	0.44	0.81
1 1/4	32.0	1.280	32.5	√	1.755	44.6	5 1/2	120	43	3.0	175	12	0.50	0.75
1 1/2	38.0	1.530	38.8	√	2.035	51.7	7	180	29	2.0	116	8	0.74	1.11
2	50.0	2.030	51.5	√	2.580	65.6	12	300	29	2.0	116	8	1.28	1.91

† Maximum Working Pressures do not vary with temperature

*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 -73°C, -100°F up to +204°C, +400°F.

Vacuum Limitations

Pharmaline N and X hose is usable at full vacuum up to 140°C, 284°F.

Rolling U Test for Flex Life

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

More than 15 x 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

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

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

*Temperature & Maximum Working Pressure Graph for Pharmaline N

