



LAY FLAT HOSE ASSEMBLIES

Engineered Solutions For Pipe Motion

Canada 
www.thorburnflex.com

Thorburn High Pressure Lay Flat Hose Assemblies



Thorburn’s lay flat hose assemblies provide flexibility and mobility to streamline efficient use of transferring large volume of liquids. Lay flat hoses can be easily transported by light weight vehicles to remote areas or places with limited infrastructure and can be deployed in harsh environments such as rocky mountain sides, oil spills and deep wells. Lay flat hose assemblies are ideal for rapid large volume dewatering due to less pressure drop over large distances reducing the need for connections. After use, lay flat hoses can be easily dismantled, cleaned, reeled up and relocated to a new site with minimal manual labor.

Features

- Minimal pressure loss & low friction
- Excellent abrasion and chemical resistance
- Transfers large volume of liquid
- Continuous operation at high pressures
- Terrain friendly, follows ground contours
- Easy access to remote areas
- Canadian CRN available upon request (N)

Construction

Tube: TPU (Thermoplastic polyurethane (smooth)

Reinforcement: High tensile calendered polyester

Cover: Smooth polyurethane

Temperature: -50°C (-58°F) to 80°C (176°F)

Color: Black

Maximum Continuous Length: 200 m (656 ft)

Thorburn Series “(N)22TWHD” High Pressure Lay Flat Hose Assemblies

Part Number	Size		Design Pressure		Min. Burst Pressure		Wall Thickness		Weight		Maximum Length	
	in	mm	bar	psi	bar	psi	mm	in	kg/m	lb/ft	m	ft
(N)22TWHD-16	1	25	10.3	150	49.6	720	2.5	0.10	0.20	0.13	200	656
(N)22TWHD-32	2	51	10.3	150	49.6	720	2.5	0.10	0.29	0.19	200	656
(N)22TWHD-48	3	76	10.3	150	49.6	720	2.5	0.10	0.45	0.30	200	656
(N)22TWHD-64	4	102	10.3	150	49.6	720	4.0	0.16	1.0	0.67	200	656
(N)22TWHD-80	5	127	10.3	150	49.6	720	4.0	0.16	1.2	0.81	200	656
(N)22TWHD-96	6	152	10.3	150	49.6	720	3.9	0.15	2.0	1.34	200	656
(N)22TWHD-128	8	203	10.3	150	49.6	720	3.8	0.15	3.0	2.02	200	656
(N)22TWHD-160	10	254	10.3	150	49.6	720	5.5	0.22	6.0	4.03	200	656
(N)22TWHD-192	12	305	10.0	145	40.3	585	5.5	0.22	6.2	4.17	200	656

N is used in the part number only when a Canadian CRN is required, when a code requirement must be met or material traceability is required

Thorburn Series “(N)22TWHP” Very High Pressure Lay Flat Hose Assemblies

Part Number	Size		Design Pressure		Min. Burst Pressure		Wall Thickness		Weight		Maximum Length	
	in	mm	bar	psi	bar	psi	mm	in	kg/m	lb/ft	m	ft
(N)22TWHP-64	4	102	20.7	300	86.9	1260	5.0	0.20	1.8	1.21	200	656
(N)22TWHP-96	6	152	20.7	300	86.9	1260	5.5	0.22	4.0	2.69	200	656
(N)22TWHP-128	8	203	13.8	200	62.1	900	4.5	0.18	4.2	2.82	200	656

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Thorburn High Pressure Lay Flat Hose

- Construction & Hydraulic fracturing
- Oil & gas
- Agriculture and mining
- Waste water
- Transport of abrasive materials
- Irrigation and sludge disposal
- Temporary piping system replacement



Thorburn Lay Flat Hose Standard Couplings



Victaulic Groove Style Hose Couplings

- Crimp Style (Code 01) or Clamp Style (Code 02)
- 316SS or aluminum material
- Full Bore design to minimize friction loss and increase flow
- Hard-coat anodized for abrasion resistance
- Sizes DN 25 (1") to DN 300 (12")

How To Order Thorburn Lay Flat Hose Assemblies

Hose Type	Size	1st End Coupling	Coupling Material	2nd End Coupling	Coupling Material	O.A.L.
N22TWHD	96	01	S6	01	S6	100m
N22TWHD Hose	6" Hose	Victaulic Style (Crimp)	316SS	Victaulic Style (Crimp)	316SS	100 meters
(N)22TWHD (N)22TWHP	16 = 1" (25DN) 32 = 2" (50DN) 48 = 3" (80DN) 64 = 4" (100DN) 80 = 5" (125DN) 96 = 6" (150DN) 128 = 8" (200DN) 160 = 10" (250DN) 192 = 12" (300DN)	01 = Victaulic Style (Crimp) 02 = Victaulic Style (Clamp) XX = Specify	S6 = 316SS AL = Aluminum	01 = Victaulic Style (Crimp) 02 = Victaulic Style (Clamp) XX = Specify	S6 = 316SS AL = Aluminum	Standard in Inches For metric, Specify after number m = meters mm = millimeters cm = centimeters

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European
Conformity



ISO
9001:2015



B31.1,
B31.3



ASME "NPT"
Sec. III Class 1



ASME "U"
Sec. VIII Div. 1



N285.0, B51
CGA CR96-001



97/23/EC
Module H



UL
536

ISIR Romania | CNCAN Romania | EN 13480-2002 | HAF 604 China | TSG China

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