



J-LOK 1000 SERIES
Polyurethane

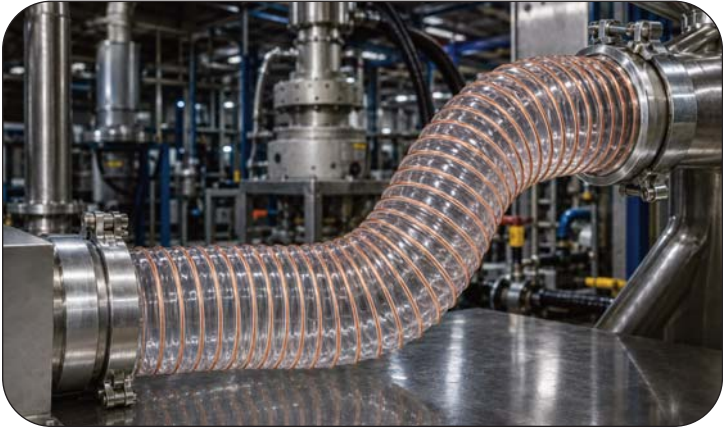
FLEXIBLE DUCTING HOSE ASSEMBLIES

Engineered Solutions For Pipe Motion



www.thorburnflex.com

Thorburn Series J-LOK-1000™ Premium Polyurethane Ducting Hose



Features

- 100% premium virgin polyurethane construction
- Bronze-coated spring steel wire reinforcement
- Transparent wall for visual flow inspection
- Halogen and plasticizer-free
- Exceptional abrasion, tear, oil, ozone, and weather resistance
- Smooth bore minimizes pressure loss and material build-up
- Lightweight with excellent flexibility and bend recovery
- High compression ratio for reduced shipping and storage costs
- Permanent static-dissipative construction
- UL 94 V-2 flame extinguishing construction
- Surface resistivity: 10^8 - 10^{10} Ω /sq
- FDA compatible materials

Engineered for Performance - Built for Durability - Trusted for Critical Industrial Applications

The J-LOK-1000™ Series is Thorburn's premium line of polyurethane ducting hoses engineered for demanding dust collection, abrasive material conveying, fume extraction, and industrial ventilation systems where reliability and service life are critical. Manufactured from 100% premium virgin polyurethane and reinforced with a bronze-coated spring steel wire helix, the J-LOK-1000 delivers exceptional abrasion resistance, permanent static dissipation, superior flexibility, high vacuum capability, and outstanding resistance to fatigue and repeated flexing. Unlike conventional rubber-coated fabric, PVC, or lower-grade thermoplastic ducting, the J-LOK-1000 is designed to provide longer service life, reduced maintenance, and lower life-cycle costs in demanding industrial environments.

Available in three engineered wall thicknesses, the J-LOK-1000 Series allows engineers to match hose performance to the application, optimizing durability, flexibility, vacuum performance, and overall value. Static-dissipative and flame extinguishing constructions enhance safety in combustible dust and industrial processing environments. Engineered by Thorburn Flex Inc. to deliver superior performance, extended service life, and lower total cost of ownership in the world's most demanding industrial environments.

J-LOK-1020 — Light Duty | Wall Thickness: 0.020" (0.5 mm)

Applications

- General ventilation
- Portable dust collection
- Plastic pellets
- Clean room ventilation and collection

Best For: Maximum flexibility and lightweight service.

J-LOK-1030 — Medium Duty | Wall Thickness: 0.030" (0.8 mm)

Applications

- Industrial dust & wood chip collection
- Powder and grain conveying
- Capture of metal grinding particles
- Glass and plastic processing

Best For: Optimum balance of flexibility, abrasion resistance & vacuum performance.

J-LOK-1050 — Extra Heavy Duty | Wall Thickness: 0.050" (1.2 mm)

Applications

- Mining - Ventilation, fume and drill dust extraction
- Cement - Kiln, clinker and cement dust extraction
- Steel mills - Mill scale and shot blast collection
- Foundries - Molding sand recovery systems

Best For: Maximum wear resistance and lowest life-cycle cost.



Designed with exceptional flexing capability, this polyurethane ducting hose delivers reliable performance in demanding dynamic applications.

Thorburn Series J-LOK 1000 Specifications



Specifications

Material: Premium Virgin Polyurethane

Reinforcement: Bronze-Coated Spring Steel Wire

Wall Thicknesses (mils): 0.020", 0.030", 0.050"

Color: Transparent

Compression Ratio: J-LOK 1020 (5:1) | J-LOK 1030 (3:1) | J-LOK 1050 (2:1)

Temperature Range: -40°C to +100°C (125°C intermittent)

Thorburn Part #	Hose I.D.		Vacuum				Design Pressure		Min. Bend Radius		Standard Length	
			J-LOK1020		J-LOK1030/1050							
	DN	in	Hg (mm)	Hg (in)	Hg (mm)	Hg (in)	bar	psi	mm	in	m	ft
J-LOK1020/1030/1050-16	25	1.00	737	29	737	29	2.0	30	20	0.78	8/15/20	25/50/65
J-LOK1020/1030/1050-20	32	1.25	737	29	737	29	2.0	30	30	1.18	8/15/20	25/50/65
J-LOK1020/1030/1050-24	40	1.50	737	29	737	29	2.0	30	45	1.77	8/15/20	25/50/65
J-LOK1020/1030/1050-32	50	2.00	737	29	737	29	2.0	30	50	1.97	8/15/20	25/50/65
J-LOK1020/1030/1050-40	65	2.50	737	29	737	29	2.0	30	60	2.36	8/15/20	25/50/65
J-LOK1020/1030/1050-48	80	3.00	737	29	737	29	1.9	29	80	3.15	8/15/20	25/50/65
J-LOK1020/1030/1050-64	100	4.00	610	24	508	20	1.7	25	100	3.94	8/15/20	25/50/65
J-LOK1020/1030/1050-80	125	5.00	330	13	432	17	1.5	22	120	4.72	8/15/20	25/50/65
J-LOK1020/1030/1050-96	150	6.00	203	8	381	15	1.3	19	150	5.91	8	25
J-LOK1020/1030/1050-128	200	8.00	51	2	229	9	1.0	14	200	7.87	8	25
J-LOK1020/1030/1050-160	250	10.00	51	2	102	4	0.8	11	220	8.66	8	25
J-LOK1020/1030/1050-192	300	12.00	51	2	51	2	0.7	10	300	11.81	8	25
J-LOK1020/1030/1050-224	350	14.00	25	1	51	2	0.6	8	320	12.60	8	25
J-LOK1020/1030/1050-256	400	16.00	25	1	51	2	0.3	5	400	15.75	8	25
J-LOK1020/1030/1050-288	450	18.00	25	1	25	1	0.2	3	450	17.72	8	25
J-LOK1020/1030/1050-320	500	20.00	25	1	25	1	0.2	3	500	19.69	8	25

Thorburn Series J-LOK 1000 Flexible Ducting Hose Connectors



(TC42) Connector



(TC56) Pulley Elbow



(C52) Y Connector



(TC53) T Connector



(C50) Branch Connector



(TC41) Splice Connector



(TC55) Reducer



(TC54) Transition Connector

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ISCIR Romania | CNCAN Romania | HAF 604 China | TSG China

Thorburn Series J-LOK 1000 Clamps, Locks & Accessories



(60CHS/61CHAS) Worm Gear Clamp



(62CHAS) Bridge Clamps



(65CK) Fast Lock Clamp



(777C) Perma-Clamp



(TC45) J-Locks



(TC43) Latch Locks



(TC44) Pin Locks



(TC60P) Cuff Ends

How To Order Thorburn Series J-LOK 1000 Flexible Ducting Hose Assemblies

Model	Size	1st End Connector	1st End Clamp	2nd End Connector	2nd End Clamp	1st End Material	2nd End Material	Hose Length	Accessories
J-LOK1020	32	TC42	A2	TC53	A3	AL	AL	15m	
J-LOK1020 J-LOK1030 J-LOK1050	16 = 1"(DN 25) 20 = 1.25"(DN 32) 24 = 1.5"(DN 40) 32 = 2"(DN 50) 40 = 2.5"(DN 65) 48 = 3"(DN 80) 64 = 4"(DN 100) 80 = 5"(DN 125) 96 = 6"(DN 150) 128 = 8"(DN 200) 160 = 10"(DN 250) 192 = 12"(DN 300) 224 = 14"(DN 350) 256 = 16"(DN 400) 288 = 18"(DN 450) 320 = 20"(DN 500)	Connector Ends TC42 = Connector TC56 = Pulley Elbow C52 = Y Connector TC53 = T Connector C50 = Branch Connector TC41 = Splice Connector TC55 = Reducer TC54 = Transition Connector Clamps A = 60CHS - Worm Gear Clamp B = 61CHAS - Worm Gear Clamp C = 62CHAS - Bridge Clamp D = 65CK Preformed Fast Lock E = 777C - Perma-Clamp Quantity of Clamps (If 1 leave blank) 2, 3, 4 (Specify # after clamp code) Locks F = TC45 - J-LOK* G = TC43 - Latch Lock* H = TC44 - Pin Lock* Y = Specify * Choose Material: (Place after Code)				Connector Materials S1 = 301 Stainless Steel S2 = 201 Stainless Steel S3 = 303 Stainless Steel S4 = 304 Stainless Steel S6 = 316 Stainless Steel CS = Carbon Steel CP = Carbon Steel Plated AL = Aluminum X = Specify		8m (25ft) 15m (50ft) 20m (65ft) Y = Specify	TC60P = Cuff End TC61P = Soft Cuff End None = Leave Blank Z = Specify