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Find the *LoveJoy L070* at our website: *Click HERE*

L Type – Standard Jaw Coupling

- Industry's standard shaft coupling
- Accommodates for angular and parallel shaft misalignment
- Fail-safe (will still perform if elastomeric "spider" fails)
- No metal to metal contact
- Resistant to oil, dirt, sand, moisture, and grease
- Industry's largest available selection from stock



Resources

Jaw Type Couplings Digital Catalog & 3D CAD

Jaw Type Couplings Catalog (pdf)

Stainless Steel Jaw (Sub-catalog) (pdf)

L-LOC Clamp Feature Sheet (pdf)

Jaw Coupling Selection Worksheet (pdf)

Installation Instructions & Videos

– Dimensional Data

More...

Click here to access Lovejoy's Digital Parts Catalog for L line components.

A full L line coupling is comprised of 3 parts:

- 2 hubs (sintered iron for L035-L150 & cast iron for L190-276)
- 1 elastomeric spider (SOX/NBR, Urethane, Hytrel®, or Bronze)

– Nominal Rated Torque Data (Standard Catalog)

Max Bore		Spider Material								
			SOX (NBR) Torque		Urethane Torque		Hytrel® Torque		Bronze Torque	
Size	in	mm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm
L035	0.375	9	3.5	0.4	—	—	—	—	—	—
L050	0.625	16	26.3	3	39	4.5	50	5.6	50	5.6
L070	0.75	19	43.2	4.9	65	7.3	114	12.9	114	12.9
L075	0.875	22	90	10.2	135	15.3	227	25.6	227	25.6
L090	1	25	144	16.3	216	24.4	401	45.3	401	45.3
L095	1.125	28	194	21.9	291	32.9	561	63.4	561	63.4
L099	1.188	30	318	35.9	477	53.9	792	89.5	792	89.5
L100	1.375	35	417	47.1	626	70.7	1,134	128	1,134	128

L150	1.875	48	1,240	140	1,860	210	3,708	419	3,706	419
L190	2.125	55	1,728	195	2,592	293	4,680	529	4,680	529
L225	2.625	65	2,340	264	3,510	397	6,228	704	6,228	704
L276	2.875	73	4,716	533	—	—	—	—	12,500	1412

Note: Bronze has a maximum RPM capability of 250 RPM.

– Spider Performance Data (Standard Catalog)

SOX (NBR) Rubber (Standard Insert) – Nitrile Butadiene (Buna N) Rubber is a flexible elastomer material that is oil resistant, resembles natural rubber in resilience and elasticity.

Urethane – Greater torque capability than NBR (1.5 times), provides less dampening effect, and operates in a smaller temperature range. Good resistance to oil and chemicals. Not recommended for cyclic or start/stop applications.

Hytrel® – Flexible elastomer designed for high torque and high temperature operations. Excellent resistance to oil and chemicals. Not recommended for cyclic or start/stop applications.

Bronze – Rigid, porous oil-impregnated metal insert exclusively for low speed (max 250 RPM) applications requiring high torque capabilities. Not affected by extreme temperatures, water, oil, or dirt.

Material	Temperature Range	Misalignment		Shore Hardness	Dampening Capacity	Chemical Resistance	Color
		Angular	Parallel				
SOX (NBR) Rubber	-40°F to 212°F (-40°C to 100°C)	1°	0.015	80A or 60A*	High	Good	Black
Urethane	-30°F to	1°	0.015	55D or	Low	Very Good	Blue

Hytrel®	-60°F to 250°F (-51°C to 121°C)	1/2°	0.015	55D	Low	Excellent	Tan
Bronze	-40°F to 450°F (-40°C to 232°C)	1/2°	0.01	–	None	Excellent	Bronze

* All Sizes (except L035) shore hardness = 80A, Size L035 shore hardness = 60A

** Sizes L050 to L110 shore hardness = 55D, Sizes L150 to L225 shore hardness = 90-95A

Note: In addition to **solid center spiders** (most common), **open center spiders** are also available (to allow shafts of the driver and driven to be positioned within a short distance). Open center spiders offer shaft positioning flexibility but have a lower RPM capacity (1,750 RPM maximum for NBR, 3,600 maximum for Urethane and Hytrel®).

+ 3D CAD Files (for download)

+ Alternative Jaw Products

+ Relevant CouplingAnswers.com Blog Articles

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