

The L Type coupling consists of two standard L Type hubs and one spider.



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Description	L/AL099/100-SPIDER-SOX
Coupling Type	Jaw
Material	SOX (NBR) Rubber
Insert Style	Solid
Color	Black
Type	Elastomeric Insert
Weight	0.06 lb

Dimensional Data

Coupling Size	L099, L100, AL099, AL100
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**Dimension A**

2.540 in  
64.52 mm

**Dimension B**

0.43 in  
10.92 mm

**Dimension DC**

0.250 in  
6.35 mm

**Dimension H**

1.030 in  
26.16 mm

**Dimension W**

0.61 in  
15.49 mm

**Cubic inches**

3.93548 in<sup>3</sup>

**Performance Data****Normal Temperature Range**

-40 to 212 °F  
-40 to 100 °C

**Nominal Torque**

318 to 417 in·lb  
35.9 to 47.1 N·m

**Angular Misalignment**

1.00 °

**Parallel Misalignment**

0.150 in

**Shore Hardness**

80A

**Damping Capacity**

High

**Chemical Resistance**

Good

**Spider Performance****Spider Performance**

- ◆ Nitrile Butadiene (Buna N) Rubber is a flexible elastomer material that is oil resistant, resembles natural rubber in resilience and elasticity and operates effectively in temperature range of -40° to 212° F (-40° to 100° C). Good resistance to oil.

Standard elastomer. (Also applies to SXB Cushions.)

## Elastomers in Compression

Lovejoy offers four types of elastomer designs to allow for additional flexibility in addressing specific application requirements. One piece designs are used in the "L" and "AL" models (referred to as spiders) and multiple part "load cushions" are used in the "C" and "H" model couplings. The load cushions are in sets of 6 to 14 pieces depending on coupling size.

### Solid Center Spider

- The solid center design is commonly used design when shafts of the driver and driven equipment can be kept separate by a standard gap

### Open Center Spider

- The open center design allows for the 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/Hytrel®)

## Elastomers in Compression

### Cushions

- Used exclusively for the C and H Type couplings
- Load cushions are held in place radially by a steel collar which is attached to one of the hubs

### Snap Wrap Flexible Spider

- Design allows for easy removal of the spider without moving the hubs
- Allows for close shaft separation all the way up to the hubs maximum bore
- Maximum RPM is 1,750 RPM with the retaining ring, but if used with the LC Type (with collar) the normal RPM rating of the coupling applies
- Style is available in NBR and Urethane only, and in limited sizes

## Notes

**Notes**

- ♦ NBR standard shore hardness is 80A  $\pm$ 5A – Except L035=60A. Other softer or harder designs are available in NBR material; consult Lovejoy.