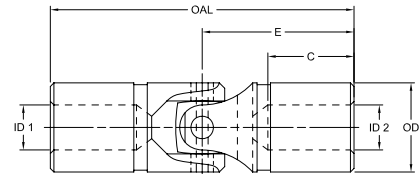


### D Type 303 Stainless

- Made from 303 stainless steel
- Ideal for applications with exposure to corrosive chemicals, corrosive atmosphere, or sanitation requirements are a factor
- Available in sizes: 4, 6, 8, 10 and 12 (Other sizes are quantity dependent)
- Available in your choice of round, hex, splined, or keyway bore
- Boot retaining grooves are standard. See page UJ-11 for selection of on-site replaceable universal joint boots
- Lubrication is required for optimal wear – boots and lubricant extend universal joint life
- Contact Lovejoy Engineering if you have specific questions or requirements



D-SS Type



### D Type 303 Stainless Dimensional Data

Size		OAL in	E Main Pin Height in	C Bore Depth in	Std Bore in	ID1 - ID2						OD in	Static*		Weight	
Solid	Bored					Max Bore No Keyway in mm	Max Bore with Keyway in mm	Max Square/Hex Hole <sup>3</sup> in mm	in-lb	Nm	Solid lbs		Bored lbs			
D-4SS	D-4SSB	2.68	1.34	.88	.38	.62 15	.44 11	.38 9	.75	512	58	.30	.25			
D-6SS	D-6SSB	3.38	1.68	1.00	.50	.75 19	.56 13	.50 12	1.00	1,040	117	.62	.55			
D-8SS	D-8SSB	3.75	1.88	1.06	.62	1.00 25	.75 18	.62 15	1.25	3,480	393	1.11	.94			
D-10SS	D-10SSB	4.25	2.12	1.18	.75	1.12 28	.88 21	.75 19	1.50	5,280	597	1.80	1.50			
D-12SS	D-12SSB	5.44	2.72	1.50	1.00	1.50 38	1.19 30	.88 22	2.00	10,400	1 175	4.20	3.50			

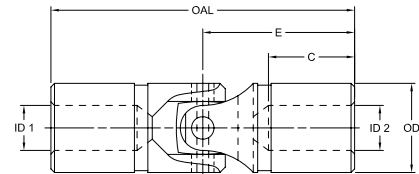
- Notes:
- \* indicates: This is not recommended operating torque.
  - 3 indicates: Square and hex bore measured across the flats.
  - Keyways, set screws, pin holes, or bores other than standard available at additional charge.
  - Maximum operating angle for transmission of power is 25°.
  - Applications that fall outside the limitations of these tables should be referred to Lovejoy Engineering for assistance.

### Needle Bearing (NB) Type

- Designed with high quality, pre-lubricated, and sealed needle bearings
- Ideal for applications up to 25° of angular misalignment and speeds up to 6,000 RPM
- Available in sizes: 6, 8, 10 and 12 (Other sizes are quantity dependent) with your choice of round, hex, splined, or keyway bores
- Boot retaining grooves are standard. See page UJ-11 for selection of on-site replaceable universal joint boots
- Lubrication is required for optimal wear – boots and lubricant extend universal joint life



NB Type



### Needle Bearing Type Dimensional Data

Size		OAL in	E Main Pin Height in	C Bore Depth in	Std Bore in	ID1 - ID2						OD in	Static*		Weight Solid lbs
Solid	Bored					Max Bore No Keyway in mm	Max Bore with Keyway in mm	Max Square/Hex Hole <sup>3</sup> in mm	in-lb	Nm					
NB-6	NB-6B	3.38	1.68	1.00	.50	.75 19	.56 13	.50 12	1.00	1,150	130	.53			
NB-8	NB-8B	3.75	1.88	1.06	.62	1.00 25	.75 18	.62 15	1.25	2,500	282	.91			
NB-10	NB-10B	4.25	2.12	1.18	.75	1.12 28	.88 21	.75 19	1.50	4,400	497	1.50			
NB-12	NB-12B	5.44	2.72	1.50	1.00	1.50 38	1.19 30	.88 22	2.00	10,500	1 186	3.40			

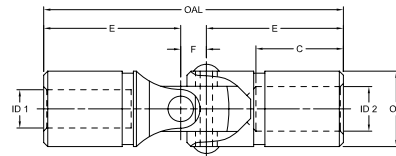
- Notes:
- \* indicates: This is not recommended operating torque.
  - 3 indicates: Square and hex bore measured across the flats.
  - Maximum operating angle for transmission of power is 25°.
  - For greater angular operation, use double universal joint. Join two universal joints back to back and connect with a short shaft. Attach universal joints to shaft by drilling and pinning.
  - Swing Diameter is the maximum diameter over bearings, clearance must be allowed.

### LOJ and JR-4 Types

- Offset pin design ideal for use on hand operated, low torque drives
- Capable for operating angles up to 45° of angular misalignment
- Application examples: remote control linkages, snow blowers, packaging machinery, awning devices, etc.
- The LOJ available with round, hex, splined, or keyway bores
- The JR-4 is made of tough Zytel® material, so it will not rust and no lubrication needed
- The JR-4 withstands oils, gasoline, salts, and temperatures from -40° to 225° F
- The JR-4 is available in .38 inch bore only



LOJ Type



LOJ - JR-4

### LOJ Type Dimensional Data

Size		OAL in	F in	E Main Pin Height in	C Bore Depth in	Std Bore in	ID1 - ID2		OD in	Pin OD in	Static*		Weight			
Solid	Bored						Max Bore No Keyway in	Max Bore with Keyway in			in-lb	Nm	Solid lbs	Bored lbs		
LOJ-6	LOJ-6B	2.94	0.25	1.35	0.75	0.50	0.62	15	0.44	11	0.75	0.88	840	95	0.30	0.25
LOJ-8	LOJ-8B	3.68	0.31	1.69	0.91	0.62	0.75	19	0.56	14	1.00	1.12	1,500	169	0.65	0.55
LOJ-10	LOJ-10B	3.75	0.38	1.69	1.00	0.75	1.00	25	0.75	19	1.25	1.44	3,480	393	1.11	0.94

- Notes: ■ \* indicates: This is not a recommended operating torque.  
■ Maximum operating angle 45° for hand-operated applications.

### JR-4 Type Dimensional Data

Size	OAL in	F in	E Main Pin Height in	C Bore Depth in	ID1 - ID2 Std Bore in	OD in	Pin OD in	Static*	
								in-lb	Nm
JR-4	3	0.31	1.69	0.62	0.38	0.68	1.18	160	20

- Notes: ■ \* indicates: This is not a recommended operating torque.  
■ Maximum operating angle 45° for hand-operated applications.

### Universal Joint Boots

- Protects the universal joint from dirt and contaminants, while lubrication is retained
- Lovejoy on-site replacement boots ensure proper lubrication for up to five times longer universal joint life
- Installation and replacement is fast and easy, so your machine can be back in operation in minutes
- Lovejoy universal joints D, D SS, DD, DDX, HD, and NB come pre-grooved
- Use the larger type diameter Upper Type boots when possible and smaller diameter Lower Type boots when space is restricted
- Standard boots are packaged two to a bag

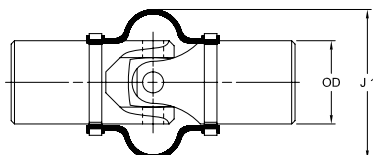
### Boot Dimensional Data

Size	OD in	J1 Upper in	J2 Lower in
D-1	0.38	0.72	0.62
D-2	0.50	0.91	0.75
D-3	0.62	1.09	0.94
D-4	0.75	1.34	1.06
D-5	0.88	1.50	1.25
D-6	1.00	1.75	1.38
D-7	1.12	2.03	1.50
D-8	1.25	2.03	1.68
D-10	1.50	2.56	1.94
D-11	1.75	—	2.18
D-12	2.00	—	2.59
D-13	2.50	—	3.25
D-14	3.00	—	4.25

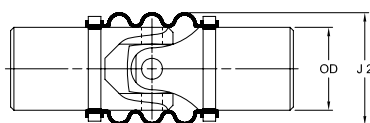


Universal Joint Boots

- Note: ■ Boot sizes D-11 through D-14 have 3-hump design similar to Lower Type Boot (L). Not shown.



Upper Type Boot (U)



Lower Type Boot (L)