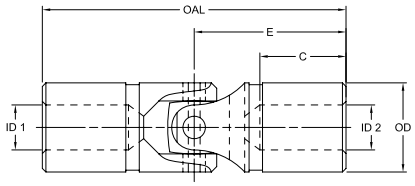
D Type 303 Stainless

- 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

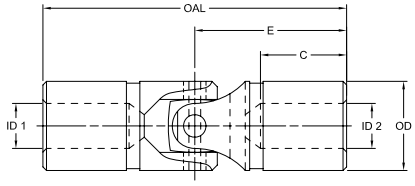
Size		OAL	E	C		ID1 - ID2						OD	Static*		Weight	
			Main Pin	Bore	Std	Max Bore		Max Bore		Max Square/			Breaking Torque			
						No Keyway		with Keyway		Hex Hole[3]					Solid	Bored
Solid	Bored	in	in	in	in	in	mm	in	mm	in	mm	in	in-lb	Nm	lbs	lbs
D-4SS	D-4SSB	2.68	1.34	.88	.38	.62	15	.44	11	.38	9	.75	512	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	E	C		ID1 - ID2						OD	Static*		Weight
			Main Pin	Bore	Std	Max Bore		Max Bore		Max Square/			Breaking Torque		
						No Keyway		with Keyway		Hex Hole[3]					Solid
Solid	Bored	in	in	in	in	in	mm	in	mm	in	mm	in	in-lb	Nm	lbs
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

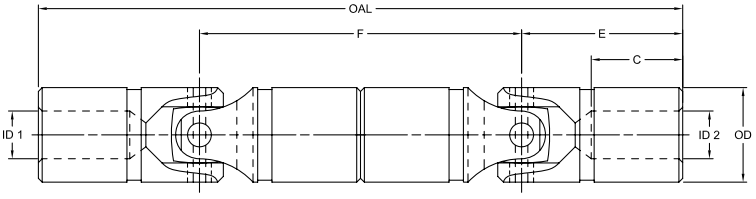
Notes:
- *** indicates: This is not recommended operating torque.**
- 3 indicates: Square and hex bore measured across the flats.
- Maximum operating angle for transmission of power is 25°.
- For greater angular operation, use double universal joint. Join two universal joints back to back and connect 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.

Double Joint Arrangement

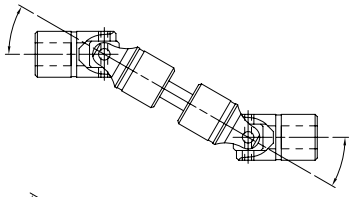
- Designed with two Lovejoy D Type universal joints and a center connecting shaft
- DD and DDX Type universal joints are tailored to your specific application requirements
- This configuration compensates for both parallel misalignment and shaft separation
- Round, hex, splined, or keyway bores are supplied per your requirements
- 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


DD Type

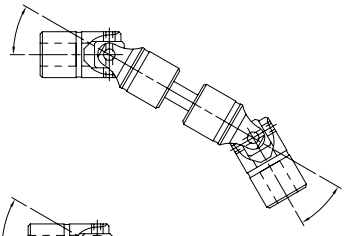

DDX Type



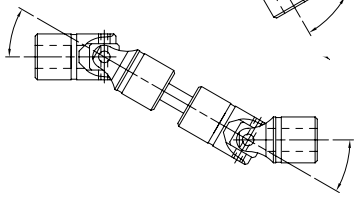
Correct Assembly
Yoke ears are aligned and angles are equal



Correct Assembly
Yoke ears are aligned and angles are equal



Incorrect Assembly
Yoke ears are not in alignment



DD and DDX Type Dimensional Data

Size		OAL	F		E	C		ID1 - ID2				OD			Weight
			Std	Min	Main Pin Height	Bore Depth	Std Bore	Max Bore No Keyway		Max Square/ Hex Hole[3]			Static* Breaking Torque		Solid
Solid	Bored	in	in	in	in	in	in	in	mm	in	mm	in	in-lb	Nm	lbs
DD-1	DD-1B	3.50	1.75	1.18	0.88	0.56	0.19	0.25	6	0.19	4	0.38	110	12.4	0.09
DD-2	DD-2B	4.00	2.00	1.38	1.00	0.62	0.25	0.38	9	0.25	6	0.50	378	42.7	0.18
DD-3	DD-3B	4.50	2.25	1.56	1.12	0.68	0.31	0.50	12	0.31	7	0.62	540	61.0	0.32
DD-4	DD-4B	5.38	2.68	1.81	1.34	0.88	0.38	0.62	15	0.38	9	0.75	768	86.8	0.55
DD-5	DD-5B	6.00	3.00	2.12	1.50	0.88	0.44	0.69	17	0.44	11	0.88	1,176	133.0	0.82
DD-6	DD-6B	6.75	3.38	2.38	1.68	1.00	0.50	0.75	19	0.50	12	1.00	1,560	176.0	1.20
DD-7	DD-7B	7.00	3.50	2.50	1.75	1.00	0.56	0.88	22	0.56	14	1.12	2,880	325.0	1.56
DD-8	DD-8B	7.50	3.75	2.68	1.88	1.06	0.62	1.00	25	0.62	15	1.25	5,220	590.0	2.05
DD-10	DD-10B	8.50	4.25	3.06	2.12	1.18	0.75	1.12	28	0.75	19	1.50	7,920	895.0	3.30
DD-11	DD-11B	10.00	5.00	3.62	2.50	1.38	0.88	1.25	31	0.81	20	1.75	10,680	1 207.0	5.50
DD-12	DD-12B	10.88	5.44	3.94	2.72	1.50	1.00	1.50	38	0.88	22	2.00	15,600	1 762.0	7.70
DD-13	DD-13B	14.00	7.00	5.00	3.50	2.00	1.25	1.75	44	1.12	28	2.50	33,120	3 742.0	15.70
DD-14	DD-14B	18.12	9.06	6.31	4.53	2.75	1.50	2.00	50	1.38	35	3.00	65,400	7 389.0	29.00

Notes:
- *** indicates: This is not recommended operating torque.**
- 3 indicates: Square and hex bore measured across the flats.
- Bores other than shown are available at additional charge.
- Shorter centers upon request.
- For universal joint boot dimensions, see page UJ-11.