

ZA
ZD

Zero Backlash Telescoping Universal Joints

Torques to 600 inch-lbs



- + **Zero Backlash in a telescoping universal joint!**
- + **Instrumentation quality**
- + **up to 10° operating angle for zero backlash**
- + **10 to 30° operating angle for zero backlash**
per joint at 50% torque
- + **Bores from 3/16" to 1", 5 to 25mm**
- + **Quick delivery in inch and metric sizes**

These unique **zero backlash** telescoping universal joints use precision balls, burnished custom spherical sockets and accurately sized components so when assembled an elastic preload will eliminate clearance between bearing surfaces.

Materials: Body: 303 Stainless, 304 and 316 special order
Balls: Precision grade 440 Stainless
Lubrication: Sealed in solid film plus oil suspension
Temperature: 0 to 100° C (-40°C and other temperature ranges on request)

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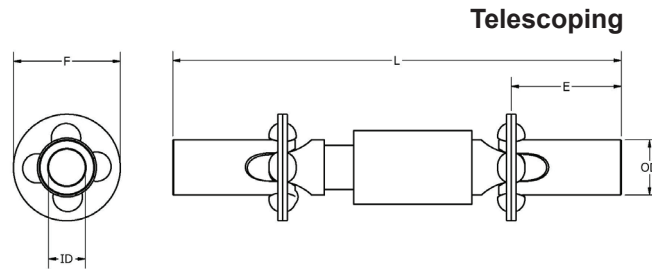
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Torque rating: Conditions are for static in-line loading. Maximum load being one which causes the joint to yield.

Operating Angle: Up to 60° for ZDT3, 4, 6
Up to 30° for ZDT8
Up to 20° for ZDT12

Maximum RPM: 3600



PART NO.	OD INCHES	ID ^{.001} _{.000}		D	E	C	L	F	Torque in-lbs
		Standard Bore Size	Optional Bore Size	Depth of Bore	End Unit	Center	NOTE 1 Length	Flange Diameter	
ZDT3	3/8	.1875	.250	3/8	3/4	1-1/4	2-3/4	3/4	16
ZDT4	1/2	.250	.3125	7/16	3/4	1-5/8	3	15/16	20
ZDT6	3/4	.375	.4375	5/8	1	2-1/4	4-1/4	1-3/8	30
ZDT8	1	.500	.625 .750	7/8	1-5/16	2-1/2	5-1/8	1-7/8	75
ZDT8B	1	.500	.625 .750	7/8	1-5/16	2-1/2	5-1/4	1-7/8	300
ZDT8C	1	.500	.625 .750	7/8	1-5/16	2-1/2	5-1/4	1-7/8	450
ZDT12	1-1/2	.750	1.000	1-1/2	2-1/4	2-1/4	6-3/4	2-1/2	600

Notes

1. Closed dimension for standard 1/4" of travel (S dimension) Travel up to 6" on request
2. Where high torsional rigidity is required, ZA8C and ZD8C are recommended
3. Where high torsional rigidity is required, ZDT8C is recommended

Single and Double Universal Joints available see ZA/ZD data sheet

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