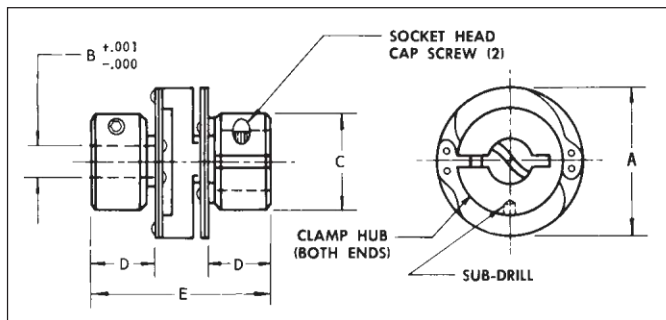
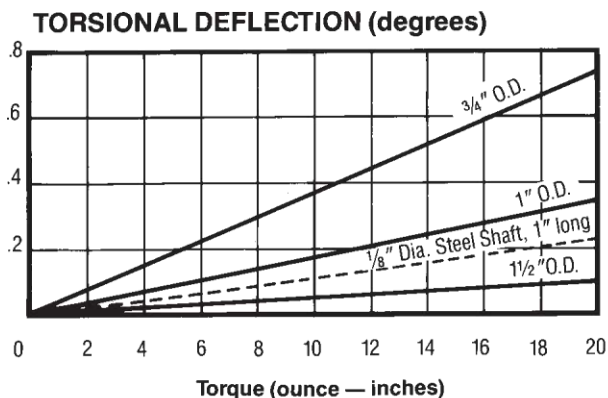
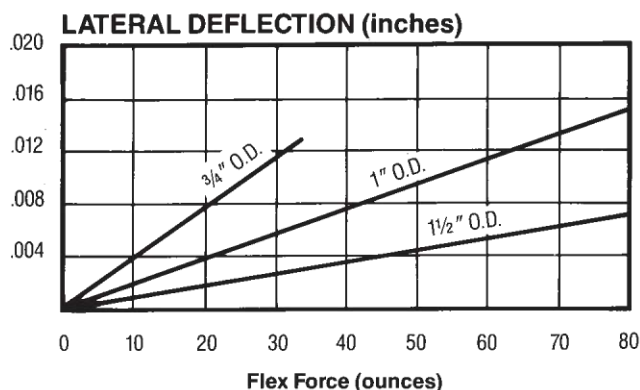


WAFER SPRING COUPLINGS

.12 To .50 Inch Bores and 3 To 12 mm Bores



Material: Hubs and center members – Anodized Aluminum
Leaves – 17-7PH S.S.
Fasteners – Stainless Steel



	B	A	C	D	E	Set Screw	Part No.
Inch Bores Toler. $\begin{smallmatrix} +.001 \\ -.000 \end{smallmatrix}$	.1200/.1250	3/4	9/16	19/64	7/8	#2-56	T15-1
	.1200/.1875						T15-3
	.1200/.2500						T15-4
	.1250						T15-5
	.1250/.1875						T15-7
	.1875						T15-12
	.1875/.2500	1	.75	.44	1.25	#4-40	T15-13
	.2500						T15-14
	.1875						T15-22
	.1875/.2500						T15-23
	.2500						T15-24
	.2500/.3125						T15-25
Metric Bores Toler. $\begin{smallmatrix} +.025 \\ -.000 \end{smallmatrix}$	.3125	1-1/2	1	21/32	1-13/16	#6-32	T15-26
	.2500/.3125						T15-15
	.2500/.3750						T15-16
	.3125						T15-17
	.3125/.3750						T15-18
	.3750						T15-19
	.3750/.5000	19.05	14.22	7.62	22.35	M2X.4	T15-20
	.5000						T15-21
	3 to 3						MCU15-1
	3 to 4						MCU15-2
	3 to 6						MCU15-3
	4 to 4						MCU15-4
	4 to 6						MCU15-5
	6 to 6						MCU15-6
	6 to 6	25.40	19.05	11.18	31.75	M3X.5	MCU15-7
	6 to 8						MCU15-8
	8 to 8						MCU15-9
	6 to 8	38.10	25.40	16.76	45.97	M4X.7	MCU15-10
	8 to 8						MCU15-11
	8 to 10						MCU15-12
	10 to 10						MCU15-13
	10 to 12						MCU15-14
	12 to 12						MCU15-15

Dimensions below are in millimeters.

Model No.	O.D. (A)	Torque (Oz-in) Max.	Angular Deflection		Lateral Deflection		Max. Axial Deflection (inches)
			Flex Force* (oz.)	Degrees Max.	Flex Force* (oz.)	Inches Max.	
T15-1 thru 14 MCU15-1 thru MCU15-6	3/4"	165	5.2	8	48	.018	.023
T15-22 thru 26 MCU15-7 thru MCU15-9	1"	225	13.0	8	108	.020	.030
T15-15 thru 21 MCU15-10 thru MCU15-15	1 1/2"	440	26.0	8	344	.030	.045

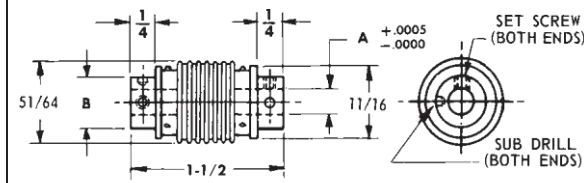
*The force required to flex coupling to maximum deflection, applied at point one diameter from coupling center. This force is constant through 360° rotation.

Maximum speed 5000 RPM

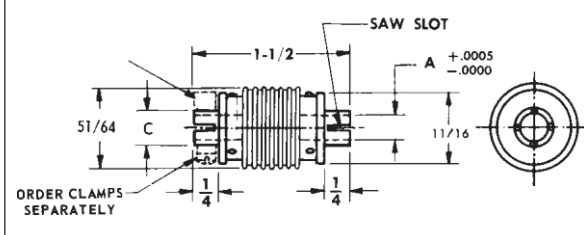
BELLOWS COUPLINGS

.12 to 3/8" Bore and 3 mm to 10 mm Bores

PIN HUB



SPLIT HUB



Material: Stainless Steel

Torque75 oz. in.
Shaft to Shaft Misalignment 0.010"
Angular Misalignment 5°
BacklashNegligible

	Shaft Size	A	B	C	Set Screw	Clamp No. (Ref.)	Pin Hub Part No.	Split Hub Part No.
Inch Bores Toler. +.0005 -0.0000	.12 to 1/8	.1200 .1248	.312	.188	#2-56	L1-4	T1-15	T1-18
	.12 to 1/4	.1200 .2498	.312 .500	.188 .312	#2-56 #6-32	L1-4 L1-6	T1-17	T1-20
	1/8 to 1/8	.1248	.312	.188	#2-56	L1-4	T1-1	T1-8
	1/8 to 3/16	.1248 .1873	.312 .375	.188 .250	#2-56 #4-40	L1-4 L1-5	T1-4	T1-11
	1/8 to 1/4	.1248 .2498	.312 .500	.188 .312	#2-56 #6-32	L1-4 L1-6	T1-5	T1-12
	3/16 to 3/16	.1873	.375	.250	#4-40	L1-5	T1-2	T1-9
	3/16 to 1/4	.1873 .2498	.375 .500	.250 .312	#4-40 #6-32	L1-5 L1-6	T1-6	T1-13
	1/4 to 1/4	.2498	.500	.312	#6-32	L1-6	T1-3	T1-10
	5/16 to 5/16	.3123	.500	.375	#6-32	L1-20	T1-21	T1-23
	3/8 to 3/8	.3748	.625	.438	#8-32	L1-21	T1-22	T1-24

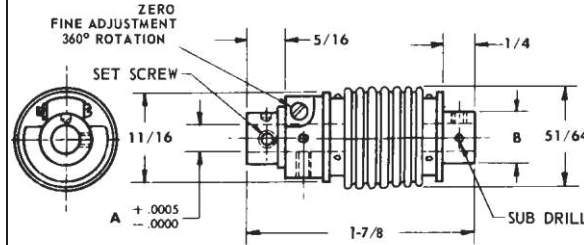
Dimensions below are in millimeters.

Metric Bores Toler. +.013 -0.000	3 to 3	2.995	7.92	4.78	M2X.4	L1-4	MCU1-1	MCU2-1
	3 to 4	2.995	7.92	4.78	M2X.4	L1-4	MCU1-2	MCU2-2
		3.995	9.52	6.35		L1-5		
	3 to 6	2.995	7.92	4.78	M2X.4	L1-4	MCU1-3	MCU2-3
		5.995	12.70	7.92		L1-6		
	4 to 4	3.995	9.52	6.35	M2X.4	L1-5	MCU1-4	MCU2-4
		3.995	9.52	6.35		L1-5		
	4 to 6	5.995	12.70	7.92	M2X.4	L1-6	MCU1-5	MCU2-5
		5.995	12.70	7.92		L1-6		
	6 to 6	5.995	12.70	7.92	M3X.5	L1-6	MCU1-6	MCU2-6

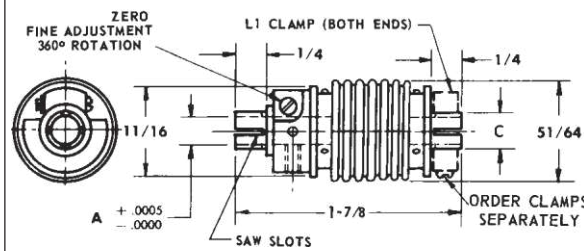
ZERO ADJUSTABLE COUPLINGS

1/8" to 3/8" Bore and 3 mm to 10 mm Bores

PIN HUB



SPLIT HUB



Material: Stainless Steel

	Shaft Size	A	B	C	Set Screw	Clamp No. (Ref.)	Pin Hub Part No.	Split Hub Part No.
Inch Bores Toler. +.0005 -0.0000	1/8 to 1/8	.1248	5/16	.188	#2-56	L1-4	T9-1	T10-1
	1/8 to 3/16	.1248 .1873	5/16 3/8	.188 .250	#2-56 #4-40	L1-4 L1-5	T9-7	T10-7
		.1873	3/8	.250	#4-40	L1-5		
	1/8 to 1/4	.1248 .2498	5/16 1/2	.188 .312	#2-56 #6-32	L1-4 L1-6	T9-8	T10-8
	3/16 to 3/16	.1873	3/8	.250	#4-40	L1-5	T9-2	T10-2
	3/16 to 1/4	.1873 .2498	3/8 1/2	.250 .312	#4-40 #6-32	L1-5 L1-6	T9-9	T10-9
	1/4 to 1/4	.2498	1/2	.312	#6-32	L1-6	T9-3	T10-3
	5/16 to 5/16	.3123	.500	.375	#6-32	L1-20	T9-11	T10-11
	3/8 to 3/8	.3748	.625	.438	#8-32	L1-21	T9-12	T10-12

Dimensions below are in millimeters.

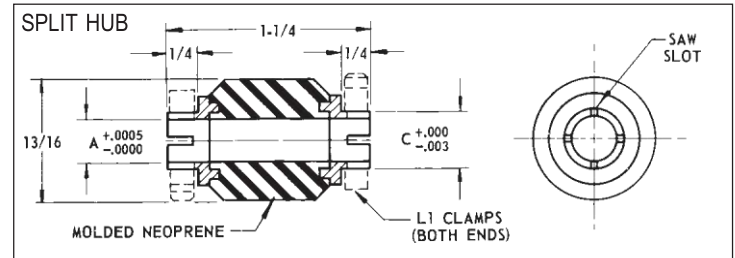
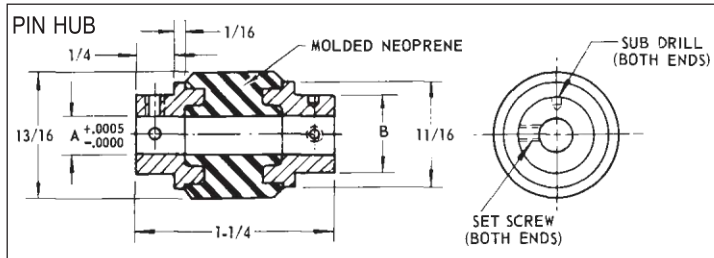
Metric Bores Toler. +.013 -0.000	3 to 3	2.995	7.92	4.78	M2X.4	L1-4	MCU3-1	MCU4-1
	3 to 4	2.995	7.92	4.78	M2X.4	L1-4	MCU3-2	MCU4-2
		3.995	9.52	6.35		L1-5		
	3 to 6	2.995	7.92	4.78	M2X.4	L1-4	MCU3-3	MCU4-3
		5.995	12.70	7.92		L1-6		
	4 to 4	3.995	9.52	6.35	M2X.4	L1-5	MCU3-4	MCU4-4
	4 to 6	3.995	9.52	6.35	M2X.4	L1-5	MCU3-5	MCU4-5
		5.995	12.70	7.92		L1-6		
	6 to 6	5.995	12.70	7.92	M3X.5	L1-6	MCU3-6	MCU4-6
	8 to 8	7.995	12.70	9.60	M3X.5	L1-20	MCU3-7	MCU4-7

* Adjustable end is first shaft size shown.

One turn of adjusting screw rotates coupling hub 12 degrees. Hub and shaft remain fixed during adjustment.

FLEXIBLE COUPLINGS

.12 to 1/4" Bore and 3 mm to 6 mm Bores



Material: 303 Stainless Steel Hubs.
Neoprene (Center Section)

FEATURES

Allows Shaft to Shaft Misalignment
Isolates Torsional Vibration
Insulates Between Units

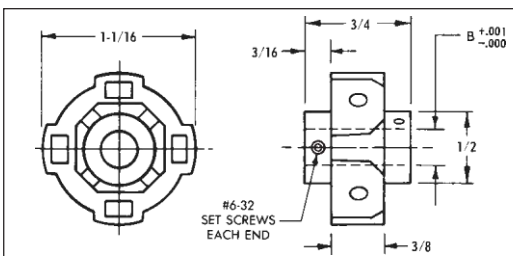
SPECIFICATIONS

MAXIMUM ANGULAR MISALIGNMENT 2°
MAXIMUM LATERAL MISALIGNMENT010"
MAXIMUM WORKING TORQUE 100 OZ-IN
MAXIMUM SPEED 1000 RPM

	Shaft Size	A	B	C	Set Screw	Clamp No. (Ref.)	Pin Hub Part No.	Split Hub Part No.
Inch Bores Toler. +.0005 -.0000	.12 to 1/8	.1200 .1248	5/16	.188	#2-56	L1-4	T11-7	T12-7
	.12 to 3/16	.1200 .1873	5/16 3/8	.188 .250	#2-56 #4-40	L1-4 L1-5	T11-10	T12-10
	.12 to 1/4	.1200 .2498	5/16 1/2	.188 .312	#2-56 #6-32	L1-4 L1-6	T11-9	T12-9
	1/8 to 1/8	.1248	5/16	.188	#2-56	L1-4	T11-1	T12-1
	1/8 to 3/16	.1248 .1873	5/16 3/8	.188 .250	#2-56 #4-40	L1-4 L1-5	T11-4	T12-4
	1/8 to 1/4	.1248 .2498	5/16 1/2	.188 .312	#2-56 #6-32	L1-4 L1-6	T11-5	T12-5
	5/32 to 3/16	.1562 .1873	5/16 3/8	.250	#2-56 #4-40	L1-5	T11-8	T12-8
	3/16 to 3/16	.1873	3/8	.250	#4-40	L1-5	T11-2	T12-2
	3/16 to 1/4	.1873 .2498	3/8 1/2	.250 .312	#4-40 #6-32	L1-5 L1-6	T11-6	T12-6
	1/4 to 1/4	.2498	1/2	.312	#6-32	L1-6	T11-3	T12-3
Dimensions below are in millimeters.								
Metric Bores Toler. +.013 -.000	3 to 3	2.995	7.92	4.78	M2X.4	L1-4	MCU7-1	MCU8-1
	3 to 4	2.995	7.92	4.78	M2X.4	L1-4	MCU7-2	MCU8-2
		3.995	9.52	6.35		L1-5		
	3 to 6	2.995	7.92	4.78	M2X.4	L1-4	MCU7-3	MCU8-3
		5.995	12.70	7.92		L1-6		
	4 to 4	3.995	9.52	6.35	M2X.4	L1-5	MCU7-4	MCU8-4
		3.995	9.52	6.35		L1-5		
	4 to 6	5.995	12.70	7.92	M2X.4	L1-6	MCU7-5	MCU8-5
		5.995	12.70	7.92		L1-6		
	6 to 6	5.995	12.70	7.92	M3X.5	L1-6	MCU7-6	MCU8-6

UNIVERSAL LATERAL COUPLINGS

1/8", 3/8", and 1/4" Bores and 3, 4, 6 mm Bores



Features

- Simultaneous lateral and angular misalignment
- Corrosion resistant
- Electrically insulated
- Light weight and space saving
- No lubrication required
- Separable

Specifications

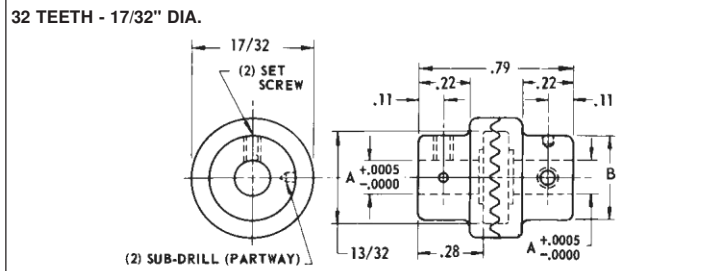
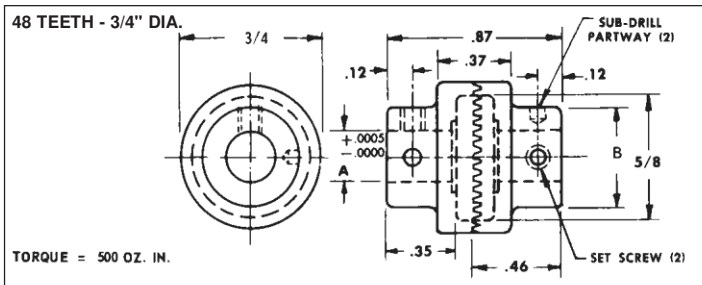
Maximum angular misalignment: 10°
Maximum lateral misalignment: .050 inches
Maximum working torque: 15 lb. in.
Backlash: Negligible
Weight (1/2" bore): .5 ounces
Trunnion material: Nickel plated metal
Annular ring material: Delrin
Standard connection to shaft: Socket head cup point set screw

INCH			METRIC		
Tolerance	B	Part No.	Tolerance	B	Part No.
+.001" -.000"	.1200	T16-7	+.025 mm -.000 mm	3	MUJ1-1
	.1200 & .1250	T16-8		4	MUJ1-4
	.1250	T16-1		3 & 4	MUJ1-2
	.1250 & .1875	T16-2		3 & 5	MUJ1-7
	.1250 & .250	T16-3		3 & 6	MUJ1-3
	.1875	T16-4		4 & 5	MUJ1-8
	.1875 & .250	T16-5		4 & 6	MUJ1-5
	.1875 & .3125	T16-9		5 & 5	MUJ1-9
	.2500	T16-6		5 & 6	MUJ1-10
	.2500 & .3125	T16-10		6	MUJ1-6
	.3125	T16-11			

INCH TO METRIC		
Tolerance	B	Part No.
Inch Bores	.1875" & 5 mm	T16C4-9
+.001"	.1875" & 6 mm	T16C4-6
-.000"	.2500" & 3 mm	T16C6-1
Metric Bores	.2500" & 4 mm	T16C6-4
+.025 mm	.2500" & 5 mm	T16C6-9
-.000 mm	.2500" & 6 mm	T16C6-6

MULTI-JAW COUPLINGS — 64 PITCH

$\frac{1}{8}$ ", $\frac{3}{16}$ ", and $\frac{1}{4}$ " Bores and 3, 4, 6 mm Bores



Material: 303 Stainless Steel

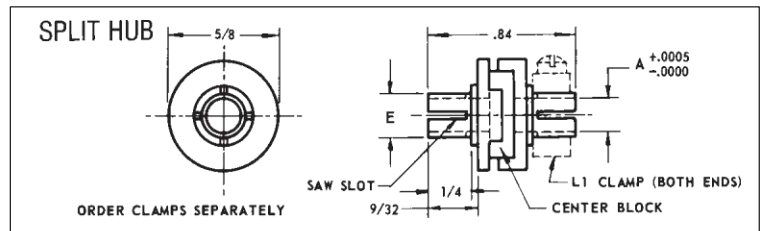
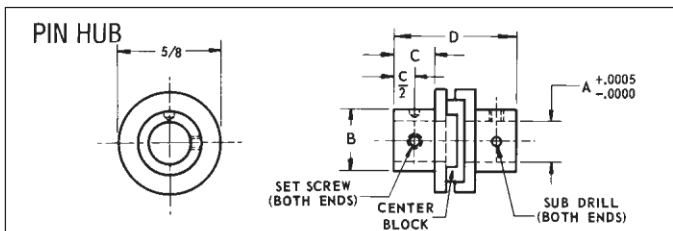
Inch Bores Toler. +.0005 - .0000	Shaft Size	A	B	Set Screw	48 Teeth Part No.	32 Teeth Part No.
	1/8 to 1/8	.1248	.31	#2-56	N4-1	N5-1
	1/8 to 3/16	.1248 .1873	.31 .37	#2-56 #4-40	N4-6	N5-6
	1/8 to 1/4	.1248 .2498	.31 .50	#2-56 #6-32	N4-7	N5-7
	3/16 to 3/16	.1873	.37	#4-40	N4-2	N5-2
	3/16 to 1/4	.1873 .2498	.37 .50	#4-40 #6-32	N4-8	N5-8
	1/4 to 1/4	.2498	.50	#6-32	N4-3	N5-3

Dimensions below are in millimeters.

Metric Bores Toler. +.013 - .000	3 to 3	2.995	7.92	M2X.4	MCU13-1	MCU14-1
	3 to 4	2.995 3.995	7.92 9.52	M2X.4	MCU13-2	MCU14-2
	3 to 6	2.995 5.995	7.92 12.70	M2X.4	MCU13-3	MCU14-3
	4 to 4	3.995	9.52	M2X.4	MCU13-4	MCU14-4
	4 to 6	3.995 5.995	9.52 12.70	M2X.4	MCU13-5	MCU14-5
	6 to 6	5.995	12.70	M3X.5	MCU13-6	MCU14-6

MINIATURE OLDHAM COUPLINGS

$\frac{1}{8}$ ", $\frac{3}{16}$ ", and $\frac{1}{4}$ " Bores and 3, 4, 6 mm Bores



Material:

Hubs — 303 Stainless Steel

Center Block — Oil-Impregnated Bronze
For Nylon, add - N to Part Number

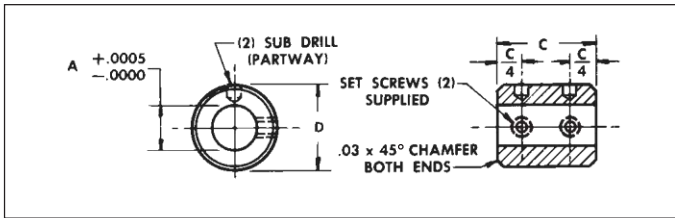
*SPECIFICATIONS

Torque 50 oz. in.
Shaft to Shaft Misalignment008
Angular Misalignment 1°
Max. Backlash 10'
Max. Speed 1000 rpm

Inch Bores Toler. +.0005 - .0000	Shaft Size	A	B	C	D	E	Set Screw	Clamp No. (Ref.)	Pin Hub Part No.	Split Hub Part No.
	1/8 to 1/8	.1248	5/16	3/16	21/32	.188	#2-56	L1-4	T7-1	T8-1
	1/8 to 3/16	.1248 .1873	5/16 3/8	3/16 7/32	11/16	.188 .250	#2-56 #4-40	L1-4 L1-5	T7-5	T8-5
	1/8 to 1/4	.1248 .2498	5/16 1/2	3/16 1/4	23/32	.188 .312	#2-56 #6-32	L1-4 L1-6	T7-6	T8-6
	3/16 to 3/16	.1873	3/8	7/32	23/32	.250	#4-40	L1-5	T7-2	T8-2
	3/16 to 1/4	.1873 .2498	3/8 1/2	7/32 1/4	3/4	.250 .312	#4-40 #6-32	L1-5 L1-6	T7-7	T8-7
	1/4 to 1/4	.2498	1/2	1/4	25/32	.312	#6-32	L1-6	T7-3	T8-3
Metric Bores Toler. +.013 - .000	3 to 3	2.995	7.92	4.76	16.67	4.78	M2X.4	L1-4	MCU9-1	MCU10-1
	3 to 4	2.995 3.995	7.92 9.52	4.76 5.56	17.46	4.78 6.35	M2X.4	L1-4 L1-5	MCU9-2	MCU10-2
	3 to 6	2.995 5.995	7.92 12.70	4.76 6.35	18.26	4.78 7.92	M2X.4	L1-4 L1-6	MCU9-3	MCU10-3
	4 to 4	3.995	9.52	5.56	18.26	6.35	M2X.4	L1-5	MCU9-4	MCU10-4
	4 to 6	3.995 5.995	9.52 12.70	5.56 6.35	19.05	6.35 7.92	M2X.4	L1-5 L1-6	MCU9-5	MCU10-5
	6 to 6	5.995	12.70	6.35	19.84	7.92	M3X.5	L1-6	MCU9-6	MCU10-6

PRECISION SLEEVE COUPLINGS

1/8" to 1/2" Bores and 3 to 12 mm Bores

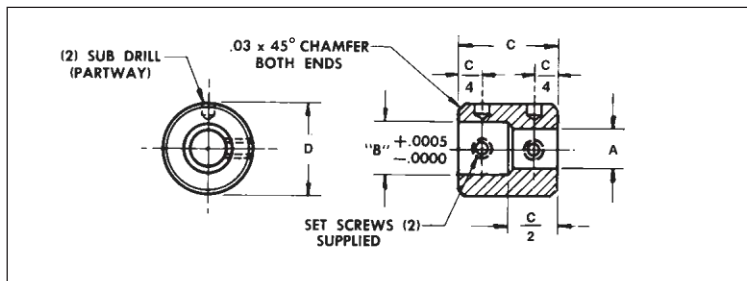


Material: 303 Stainless Steel

Inch Bores Toler. +.0005 - .0000	Shaft Size	A	C	D	Set Screw	Part No.
	1/8	.1248	.43	5/16	# 2-56	D1-1
	3/16	.1873	.50	3/8	# 4-40	D1-2
	1/4	.2498	.56	1/2	# 6-32	D1-3
	5/16	.3123	.56	9/16	# 6-32	D1-12
	3/8	.3748	.75	3/4	#10-32	D1-13
	1/2	.4998	1.00	1	1/4-20	D1-14
Dimensions below are in millimeters.						
Metric Bores Toler. +.025 - .000	3	2.995	10.92	7.92	M2X.4	MCU5-1
	4	3.995	12.70	9.52	M3X.5	MCU5-2
	5	4.995	12.70	9.52	M3X.5	MCU5-3
	6	5.995	14.29	12.70	M3X.5	MCU5-4
	8	7.995	14.29	14.29	M4X.7	MCU5-5
	10	9.995	19.05	19.05	M5X.8	MCU5-6
	12	11.995	25.40	25.40	M6X1.0	MCU5-7

PRECISION SLEEVE COUPLINGS

1/8" to 3/8" Bores and 3 to 12 mm Bores



Material: 303 Stainless Steel

Inch Bores Toler. +.0005 - .0000	Shaft Size	A	B	D	C	Set Screw	Part No.
	1/8 to 3/16	.1248	.1873	3/8	.50	# 2-56 # 4-40	D1-9
	1/8 to 1/4	.1248	.2498	1/2	.56	# 2-56 # 6-32	D1-10
	3/16 to 1/4	.1873	.2498	1/2	.56	# 4-40 # 6-32	D1-11
	1/4 to 3/8	.2498	.3748	3/4	.75	# 6-32 #10-32	D1-16
Dimensions below are in millimeters.							
Metric Bores Toler. +.013 - .000	3 to 4	2.995	3.995	9.52	12.70	M2X.4	MCU6-1
	3 to 6	2.995	5.995	12.70	14.29	M2X.4	MCU6-2
	4 to 6	3.995	5.995	12.70	14.29	M3X.5	MCU6-3
	6 to 8	5.995	7.995	14.29	14.29	M3X.5	MCU6-4
	6 to 10	5.995	9.995	19.05	19.05	M3X.5	MCU6-5
	8 to 10	7.995	9.995	19.05	19.05	M4X.7	MCU6-6
	10 to 12	9.995	11.995	25.40	25.40	M5X.8	MCU6-7

Inch to Metric Couplings					
Shaft Size (Inch to mm)	A* Inch	B** mm	C mm	D mm	Part No.
1/8 to 3	.1248	2.995	19.05	12.70	MCU20-1
1/8 to 4	.1248	3.995	19.05	12.70	MCU20-2
1/8 to 5	.1248	4.995	19.05	12.70	MCU20-3
1/8 to 6	.1248	5.995	19.05	12.70	MCU20-4
3/16 to 3	.1873	2.995	19.05	12.70	MCU20-5
3/16 to 4	.1873	3.995	19.05	12.70	MCU20-6
3/16 to 5	.1873	4.995	19.05	12.70	MCU20-7
3/16 to 6	.1873	5.995	19.05	12.70	MCU20-8
3/16 to 8	.1873	7.995	25.40	19.05	MCU20-9
1/4 to 4	.2498	3.995	19.05	12.70	MCU20-10
1/4 to 5	.2498	4.995	19.05	12.70	MCU20-11
1/4 to 6	.2498	5.995	19.05	12.70	MCU20-12
1/4 to 8	.2498	7.995	25.40	19.05	MCU20-13
1/4 to 10	.2498	9.995	25.40	25.40	MCU20-14
1/4 to 12	.2498	11.995	25.40	25.40	MCU20-15
5/16 to 4	.3123	3.995	25.40	14.22	MCU20-16
5/16 to 5	.3123	4.995	25.40	14.22	MCU20-17
5/16 to 6	.3123	5.995	25.40	14.22	MCU20-18
5/16 to 8	.3123	7.995	25.40	19.05	MCU20-19
5/16 to 10	.3123	9.995	25.40	25.40	MCU20-20
5/16 to 12	.3123	11.995	25.40	25.40	MCU20-21
3/8 to 4	.3748	3.995	25.40	19.05	MCU20-22
3/8 to 5	.3748	4.995	25.40	19.05	MCU20-23
3/8 to 6	.3748	5.995	25.40	19.05	MCU20-24
3/8 to 8	.3748	7.995	25.40	19.05	MCU20-25
3/8 to 10	.3748	9.995	25.40	25.40	MCU20-26
3/8 to 12	.3748	11.995	25.40	25.40	MCU20-27

*Inch Bores Toler. +.0005, -.0000

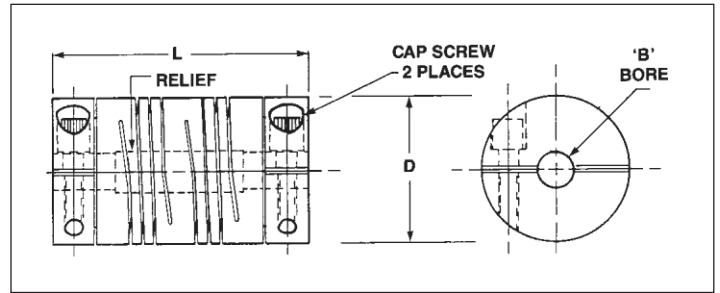
**Metric Bores Toler. +.013, -.000

FLEXIBLE-ZERO BACKLASH COUPLING

$\frac{1}{8}$ " to $\frac{5}{8}$ " Diameter Bores and 4 mm to 12 mm Bores

This Flexible-Zero Backlash Coupling is designed for applications such as drive systems for lead screws, gear boxes, high performance motion control systems for greater system accuracy and reliability.

- Coupling with integral clamp
- High torsional stiffness
- Low radial losses
- One piece construction
- Constant velocity
- Dynamic torque ratings are momentary values. For non-reversing applications divide by 2, divide by 4 for reversing applications.



Material: 7075-T6 Aluminum, Clear Anodize
or
17-4 PH Stainless Steel

B Bore +.002 -.000	L Length $\pm .016$	D Dia. $\pm .016$	Integral Clamp Screw Size	Momentary Dynamic Torque Inch Lbs.	Torsional Rate (Degree/Lb In)	Misalignment Tolerances			Part Number
						Angular (Degree)	Parallel Offset (Inches)	Axial Motion (Inches)	
.125	0.750	0.500	1-72	7	0.48	5	.010	$\pm .010$	T22S-12
.188	1.250	0.750	4-40	14	0.30	3	.010	$\pm .008$	T22A-18
.188	0.900	0.750	4-40	20	0.16	5	.010	$\pm .010$	T22S-18
.188/.250	1.060	0.875	6-32	34	0.086	5	0.03	± 0.01	T22S-1825S
.250	1.500	1.000	6-32	31	0.13	3	.010	$\pm .008$	T22A-25
.250	1.250	1.000	6-32	52	0.062	5	.010	$\pm .010$	T22S-25
.250	1.750	1.000	6-32	51	0.098	5	.03	$\pm .010$	T22S-25S
.250/.125	0.900	0.750	4-40	8.6	0.68	5	.010	$\pm .010$	T22A-2512
.250/.188	1.060	0.875	6-32	17	0.28	5	.010	$\pm .010$	T22A-2518
.250/.188	1.250	0.750	4-40	12	0.40	3	.010	$\pm .008$	T22A-2518D
.250/.375	1.500	1.000	6-32	25	0.19	3	.010	$\pm .008$	T22A-2537
.313	1.500	1.000	6-32	29	0.16	3	.010	$\pm .008$	T22A-31
.313	1.250	1.000	6-32	47	0.086	5	.010	$\pm .010$	T22S-31
.313/.250	1.750	1.000	6-32	46	0.14	5	0.03	± 0.01	T22S-2531
.313/.375	2.375	1.250	10-32	91	0.062	5	0.03	± 0.01	T22S-3137
.375	1.750	1.250	10-24	58	0.08	3	.010	$\pm .008$	T22A-37
.375	2.375	1.250	10-32	91	0.062	5	.030	$\pm .010$	T22S-37
.500	2.250	1.500	10-24	115	0.042	3	.010	$\pm .008$	T22A-50
.500	2.625	1.500	10-32	170	0.037	5	.030	$\pm .010$	T22S-50
.625	2.500	2.000	1/4-20	215	0.020	3	.010	$\pm .008$	T22A-62
.625	3.000	2.000	1/4-28	319	0.018	5	.030	$\pm .010$	T22S-62

Dimensions Below are in Millimeters

B Bore +.025 -.000	L $\pm .40$	D $\pm .40$	Screw Size	Nm	Degree/Nm	Misalignment Tolerances			Part Number
						Angular (Degree)	Parallel Offset (Inches)	Axial Motion (Inches)	
3.17	19.05	12.70	1-72	.80	0.054	5	.254	$\pm .254$	T22S-12
5.00	38.10	25.40	6-32	3.50	0.015	3	.254	$\pm .203$	MT22A-05
5.00	31.75	25.40	6-32	5.88	0.007	5	.254	$\pm .254$	MT22S-05
6.00	44.45	31.75	10-24	6.55	0.009	3	.254	$\pm .203$	MT22A-06
8.00	60.32	31.75	10-32	10.28	0.007	5	.762	$\pm .254$	MT22S-08
10.00	57.15	38.10	10-24	13.00	0.005	3	.254	$\pm .203$	MT22A-10
10.00	66.67	38.10	10-32	19.21	0.004	5	.762	$\pm .254$	MT22S-10
12.00	63.50	50.80	1/4-20	24.30	0.002	3	.254	$\pm .203$	MT22A-12
12.00	76.20	50.80	1/4-28	36.05	0.002	5	.762	$\pm .254$	MT22S-12

NOTE: 1. Metric Bore sizes are accomplished by using aluminum bore reducers.
2. T22A-XX denotes aluminum. T22S-XX denotes stainless steel.

(K) FLEXIBLE COUPLINGS

ILLUSTRATION 1

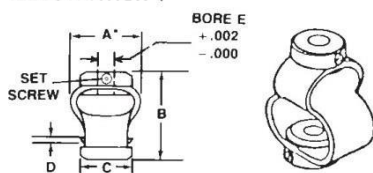
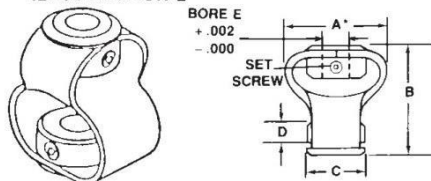


ILLUSTRATION 2



NOTE: Maximum operating speed is 3600 RPM.

Material: Hubs — Zinc Plated Steel
Body — Polyurethane

FEATURES

Hub:

- Zinc plating resists corrosion
- Inside hub reduces overall length
- Rounded corners prevent cutting
- Annealed steel for maximum strength
- Precision swaged mechanical crimp
- Standard size set screws
- AGMA Class 2 bore tolerance: $-.000 + .002$

Flexible Element:

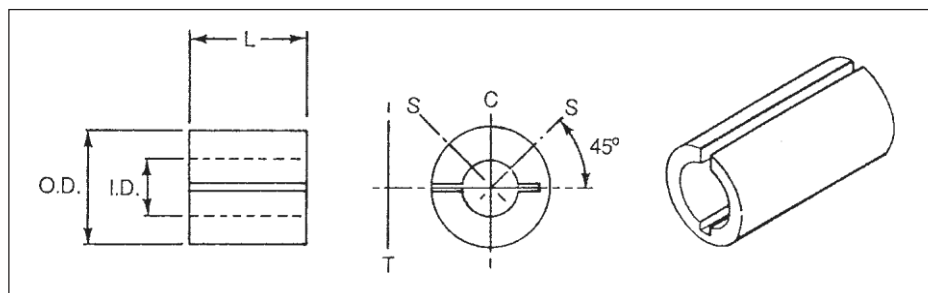
- Maximum flexibility because of unique design
- Polyurethane is durable, flexible, cut-and-wear resistant
- Greater radius for added strength
- Full wrap-around design stays securely in hub
- Non-standard bore combinations available...inquire for price and availability

Illustration	Dimensions					Set Screw	Capacity (in.-lbs.)	Maximum Angular Misalignment	Max. Lateral Misalignment (inch)	Part No.
	A*	B	C	D	E					
1	7/8	1-1/8	11/16	1/16	.188	#6-32	3	10°	3/32	T21-3
					.250					T21-4
					.312					T21-5
					.375					T21-6
2	1-7/8	1-3/4	1	3/8	.250	#10-24	12	15°	1/8	T22-4
					.312					T22-5
					.375					T22-6
					.438					T22-7
					.500					T22-8
2	2-1/8	2-1/8	1-1/8	7/16	.375	#1/4-20	28	15°	3/16	T23-6
					.438					T23-7
					.500					T23-8
					.562					T23-9
					.625					T23-10
2	2-1/8	2-3/8	1-1/8	3/8	.500	#1/4-20	40	15°	1/8	T24-8
					.562					T24-9
					.625					T24-10

*Dimensions at widest point

BORE REDUCERS

Inch And Metric



Material: Aluminum

Inch to inch and inch to metric bore reducers adapt a coupling, clutch, pulley and other bores to a number of shaft diameters when fitted to a pin hub (set screw) or split hubs.

Grip relies on adequate contact area between the shaft and reducer.

Release of residual stresses after slitting may result in slight springing of the material, — this can be corrected by finger pressure.

For optimum fastening install bore reducers as shown:

"S" = Two Set Screw Position

"C" = One Set Screw

"T" = Tangential Screw In Clamp Hub

Inch to Inch Reduction

OD +.0005 -.001	ID +.001 -.000	L ±.010	Part No.
.250	.125	3/8	R-04-02-375
.250	.187	3/8	R-04-03-375
.375	.250	1/2	R-06-04-500
.375	.3125	1/2	R-06-05-500
.500	.375	1/2	R-08-06-750

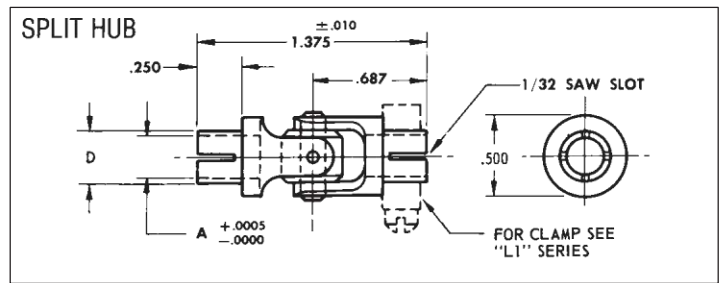
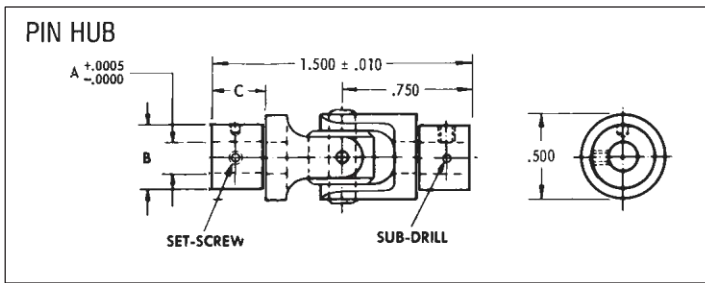
Inch to Metric Reduction

OD +.0005 -.001	ID +.025 -.000 (mm)	L ±.25 (mm)	Part No.
.250	5	8 (.312)	MR-04-05-08
.375	6	11 (.433)	MR-06-06-11
.375	8	12 (.472)	MR-06-08-12
.500	10	16 (.625)	MR-08-10-16
.625	12	16 (.625)	MR-10-12-12

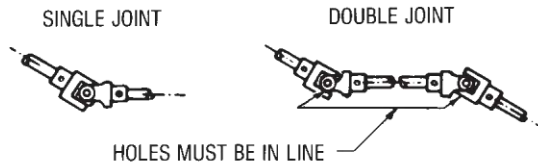
Bore Reducers With Thicker Walls May Have Slot In Opposite Wall For Proper Flexibility.

PRECISION UNIVERSAL JOINTS

$\frac{1}{8}$ ", $\frac{3}{16}$ ", and $\frac{1}{4}$ " Bores
and 3, 4, 6 mm Bores



Material: 303 Stainless Steel

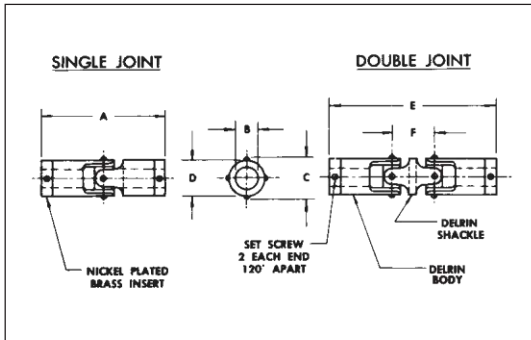


Inch Bores Toler. $+.0005$ $-.0000$	Shaft Size	A	B	C	D	Set Screw	Clamp No. (Ref.)	Pin Hub Part No.	Split Hub Part No.
	1/8	.1248	.312	.312	.188	#2-56	L1-4	BC-1	BC-10
	3/16	.1873	.375	.312	.250	#4-40	L1-5	BC-2	BC-11
	1/4	.2498	.500	—	.312	#6-32	L1-6	BC-3	BC-12
Dimensions below are in millimeters.									
Metric Bores Toler. $+.013$ $-.000$	3	2.995	7.92	7.92	4.78	L1-4		MUJ3-1	MUJ4-1
	4	3.995	9.52	7.92	6.35	L1-5		MUJ3-2	MUJ4-2
	6	5.995	12.70	—	7.92	L1-6		MUJ3-3	MUJ4-3

Universal joints will operate at angles up to 30°. For most efficient operation, operate at a maximum angle of 10°. Lubrication required.
Maximum speed: 300 RPM.

MOLDED UNIVERSAL JOINTS

$\frac{1}{8}$ ", $\frac{3}{16}$ ", and $\frac{1}{4}$ " Bores



Inch Bores Toler. +.001 -.000	Type	B	A	C	D	E	F	Set Screw	Part No.
	Single Joint	1/8 to 3/16	1-31/64	7/16	3/8	—	—	#2-56 #4-40	BC-21
		3/16	1-31/64	7/16	3/8	—	—	#4-40	BC-22
		3/16 to 1/4	1-13/16	9/16	1/2	—	—	#4-40 #6-32	BC-24
		1/4	1-13/16	9/16	1/2	—	—	#6-32	BC-25
	Double Joint	3/16	—	7/16	3/8	2	33/64	#4-40	BC-32
		1/4	—	9/16	1/2	2-7/16	5/8	#6-32	BC-35
Dimensions below are in millimeters.									
Metric Bores Toler. +.025 -.000	Single Joint	3 to 3	37.70	11.11	9.52			M2X.4	MUJ2-1
		3 to 4	37.70	11.11	9.52			M2X.4	MUJ2-2
		4 to 4	37.70	11.11	9.52			M2X.4	MUJ2-3
		4 to 6	46.04	14.29	12.70			M2X.4	MUJ2-4
		6 to 6	46.04	14.29	12.70			M3X.5	MUJ2-5
	Double Joint	3 to 3		11.11	9.52	50.8	13.10	M2X.4	MUJ2-6
		3 to 4		11.11	9.52	50.8	13.10	M2X.4	MUJ2-7
		4 to 4		11.11	9.52	50.8	13.10	M2X.4	MUJ2-8
		4 to 6		14.29	12.70	61.9	15.88	M2X.4	MUJ2-9
		6 to 6		14.29	12.70	61.9	15.88	M3X.5	MUJ2-10

C		Capac. Oz-In.*	
In.	mm	Cont.	Manual
7/16	(11.11)	25	50
9/16	(14.29)	85	170

*Based on 3.6° max. allowable deflection for continuous operation and 7° for manual operation. Double joints have one-half of these capacities.

Max. shaft angles are 10° for 2000 rpm, 15° for 1500 rpm, 20° for 1000 rpm and 30° for 500 rpm.

and 3, 4, 6 mm Bores