

Lovejoy / Sier-Bath Nylon Sleeve Gear Couplings

Nyflex® and Mite® Type Couplings

The Nyflex and Mite coupling consists of two sintered iron flex hubs, one Nylon sleeve and two Spirolox rings.

Features

- No lubrication required eliminating the need for seals
- Sintered Iron hubs with crowned teeth to provide greater misalignment and gouging of nylon sleeve
- Resilient, lightweight, abrasion and corrosion resistant nylon sleeve accurately molded to mesh with hubs eliminating friction and need of lubrication
- Center groove in sleeves readily permits their use in vertical applications and for blind assembly
- Securely held hubs and sleeves by spring-steel retaining rings yet capable of easy removal and still withstand a 5,000 lbs end thrust
- Minimum backlash operating in an ambient temperature environment of -40 to 150° F



Nyflex and Mite Type Performance Data

Speed RPM	Nyflex			Mite		
	HP	Torque		HP	Torque	
		in-lb	Nm		in	Nm
100	2.25	1,420	164	0.60	360	40.7
500	9.50	1,190	135	2.40	307	34.7
1,000	18.00	1,125	127	4.50	285	32.2
1,150	20.30	1,110	125	5.10	282	31.9
1,500	24.00	970	110	6.40	274	30.9
1,750	25.00	900	102	7.50	270	30.5
2,000	26.60	840	95	8.40	267	30.2
2,500	29.80	750	85	11.10	262	29.6
3,000	32.50	680	77	12.10	256	28.9
3,500	35.30	630	76	13.80	254	28.7
4,000	37.50	590	67	17.60	251	28.3
5,000	42.00	530	60	19.40	243	27.4

- Notes: ■ Angular Misalignment: Nyflex 5°; Mite 3°.
 ■ Clearance fit bores standard through 1.250 inch bores.
 ■ Interference fit bores standard over 1.250 inch bores.

Ordering Information

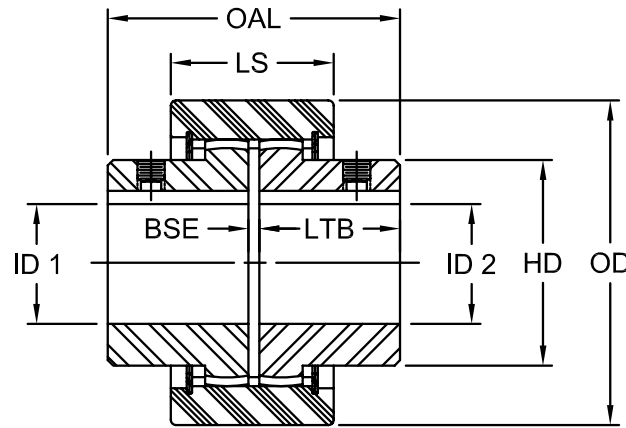
- Application: Driver and Driven.
- Type and size of coupling, horizontal, vertical etc.
- Power: Motor horsepower or torque requirement.
- Speed: Motor RPM or Driven RPM.

Nyflex		Mite	
Bore in	Keyway in	Bore in	Keyway in
0.375*	No Keyway	0.312**	No Keyway
0.500	1/8 x 1/16	0.500	1/8 x 1/16
0.625	3/16 x 3/32	0.625	3/16 x 3/32
0.750	3/16 x 3/32	0.750	3/16 x 3/32
0.875	3/16 x 3/32	0.875	3/16 x 3/32
0.937	1/4 x 1/8	0.937	1/4 x 1/8
1.000	1/4 x 1/8	1.000	1/4 x 1/8
1.125	1/4 x 1/8	1.125	1/4 x 1/8
1.187	1/4 x 1/8		
1.250	1/4 x 1/8		
1.312	5/16 x 5/32		
1.375	5/16 x 5/32		
1.437	3/8 x 3/16		
1.500	3/8 x 3/16		
1.625	3/8 x 3/16		

- Notes: ■ * indicates: Rough Stock Bore .375 – .390 inches.
 ■ ** indicates: Rough Stock Bore .312 – .327 inches.

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Nyflex and Mite Type Dimensional Data

Size	ID1 - ID2 Max Bore in	OAL in	LS in	LTB in	BSE in	OD in	HD in	Weight lbs
Nyflex	1.625	3.38	1.88	1.63	0.13	3.75	2.38	3.50
Mite	1.125	2.38	1.31	1.13	0.13	2.88	1.75	1.00

Notes: ■ Clearance fit bores with set screw over keyway is standard through 1.250 inch bores.
 ■ Interference fit bores with no set screw is standard for bores over 1.250 inch.
 ■ Bore and keyway tolerances conform to ANSI / AGMA 9002-B04.