



Flexible Drive Couplings Catalog

Connecting Fluid Power for over 60 Years



* Insert color shown is Neoprene (Black)

NOTE: Due to Magnaloy's policy of continuous improvement, specifications are subject to change without notice.

* Check with the factory or our Web Site at www.magnaloy.com for the latest information.

Magnaloy

• 170 N Industrial Hwy. Alpena, MI 49707

• 989 356-2186

www.magnaloy.com

A Division of Douville Johnston Corporation

Catalog No. 2024.5.8 © 2024 Magnaloy

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Magnaloy is the original lightweight, heavy-duty flexible drive coupling. Light weight magnesium construction makes Magnaloy couplings 76% lighter than cast iron and 36% lighter than aluminum units... and they're stronger than either!

The benefits are many... Reduced loads on bearings, shafts and pumps, for longer component life. Easier handling and installation. Rust proof and corrosion resistant.

Magnaloy's close machining tolerances (TIR of .002") assures vibration-free operation and easy, accurate alignment without need for special tools. Solid magnesium alloy permanent mold castings are heat treated and offer the highest strength-to-weight ratio available.

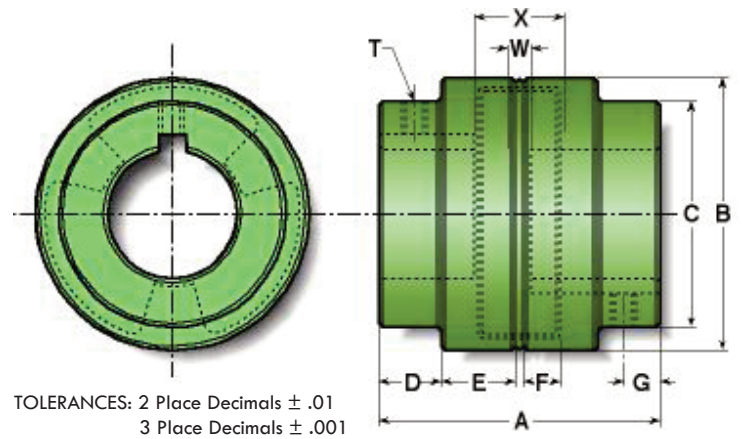
Coupling Performance Specifications

Coupling Model	Maximum Bore	Wr ² lb-ft ²	Insert Number	Rated Torque lb-in	Torsional Rigidity lb-in/Deg	Horse Power Rating @		
						100 rpm	1200 rpm	1800 rpm
100	1 1/8	0.0046	170N	340.7	42	0.55	6.5	9.8
			170U	511.0	53	0.82	9.8	14.7
			170H	1,022.1	182	1.65	19.8	29.7
200	1 3/8	0.0068	270N	398.3	55	0.64	7.6	11.5
			270U	597.4	68	0.96	11.5	17.2
			270H	1,194.9	234	1.92	23.0	34.5
300	1 5/8	0.022	370N	701.4	81	1.12	13.5	20.2
			370U	1,052.1	148	1.68	20.2	30.3
			370H	2,104.2	336	3.36	40.4	60.6
400	1 7/8	0.031	470N	1,056.3	138	1.69	20.3	30.4
			470U	1,584.5	310	2.50	30.4	45.6
			470H	3,168.9	488	5.10	60.8	91.3
500	2 3/8	0.071	570N	2,194.8	314	3.50	42.1	63.2
			570U	3,292.2	695	5.30	63.2	94.8
			570H	6,584.4	1,571	10.50	146.4	189.6
600	2 5/8	0.16	670N	4,946.7	676	7.90	94.9	142.5
			670U	7,420.1	1,510	11.90	142.5	213.7
			670H	14,840.1	2,960	23.70	284.9	427.4
700	2 7/8	0.34	770N	11,639.8	1,805	18.60	223.5	335.2
			770U	17,459.7	2,104	27.90	335.2	502.8
			770H	29,099.5	5,960	46.50	558.8	838.0
800	3 7/8	0.95	870N	21,889.4	3,680	35.00	420.3	630.4
			870U	32,834.1	-	52.50	630.4	945.6
			870H	47,062.2	11,950	75.20	903.0	1,354.5
900	4 3/4	4.20	970N	47,842.3	8,428	76.50	918.6	1,377.9
			970U	71,763.5	-	114.80	1,377.9	2,066.8

Magnaloy Coupling Dimensional Specifications

Models 100, 200, 300, 400

	100	200	300	400
A	2.54	3.10	3.58	4.24
B	2.600	2.900	3.450	3.980
C	2.00	2.25	2.90	3.05
D	0.56	0.68	0.78	1.00
E	0.68	0.84	0.96	1.06
F	0.42	0.42	0.44	0.54
G	0.31	0.43	0.56	0.73
W	1/16	1/16	1/16	1/16
X	0.90	0.90	0.98	1.20
T	1/4-20	5/16-18	5/16-18	3/8-16



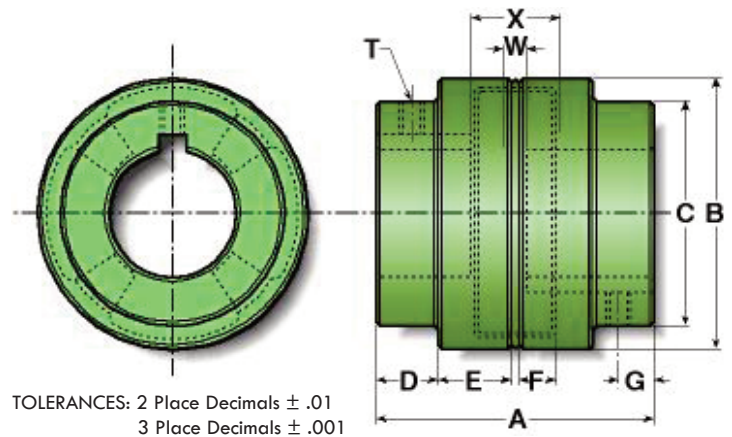
Model 500

	500
A	4.67
B	4.800
C	4.00
D	1.04
E	1.23
F	0.64
G	0.70
W	1/16
X	1.41
T	3/8-16

X*: Maximum Space between shaft ends to allow full shaft engagement in Hub Bore.

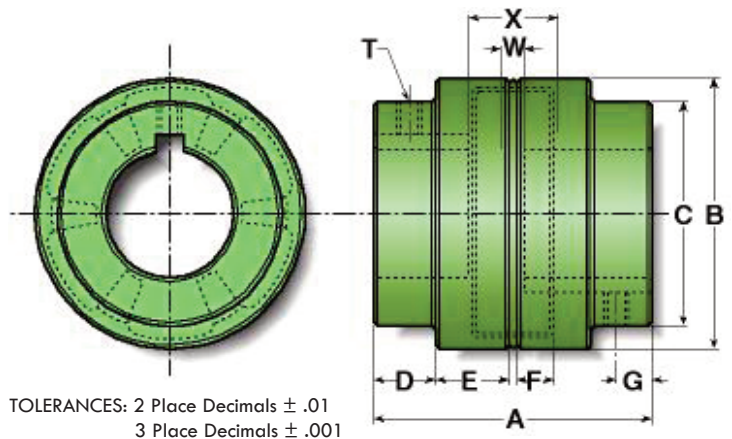
W*: Minimum Space between shaft ends.

* Given for reference only.



Models 600, 700, 800, 900

	600	700	800	900
A	5.98	6.99	7.99	10.15
B	5.975	6.900	8.600	11.400
C	4.50	5.19	7.00	8.30
D	1.60	2.08	2.25	2.75
E	1.33	1.32	1.62	2.20
F	0.62	0.89	1.00	1.32
G	1.13	1.13	1.58	1.88
W	1/16	1/16	1/16	1/16
X	1.36	1.97	2.25	2.89
T	3/8-16	1/2-13	1/2-13	3/4-10



Magnaloy Coupling's full range of flexible inserts permit custom design performance for a wide range of applications. All insert materials offer complete electrical insulation, as Magnaloy's design eliminates all metal-to-metal contact.



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Part Number Usage: Magnaloy Coupling Insert part numbers may be specified using the following format: Start with the letter "M" for Magnaloy, followed by the 3 digit Basic Insert Number Code (170, 270, etc.), then the specific single letter Insert Material Code. If an optional durometer is being specified, after the Material Code supply the durometer number divided by 10.

Examples: Urethane insert for Model 300: M370U. 80 Durometer Neoprene for Model 200: M270N8.

Neoprene (Code N) - Black material - Standard material with Magnaloy Coupling. Good general purpose material offering good resiliency and load capabilities. Temp range -30°F to +250°F (-34°C to +121°C). Optional 80A durometer (painted Gold) and 90A durometer (painted Silver) are available for slight increased load capability and less resiliency.

Nitrile (Buna N)(Code B) - Painted Blue. Excellent material with petroleum products. Excellent compression set and abrasion resistance characteristics. Temp range -60°F to +250°F (-51°C to +121°C).

Urethane (Code U) - Yellow material. Excellent mechanical and physical properties. Offers good medium duty durability and resiliency. Urethane tends to soften at higher temperatures and humid conditions. Temp range -30°F to +150°F (-34°C to +66°C).

Viton (Fluorocarbon)(Code V) - Red material. Excellent fluid compatibility and high temperature characteristics. Good compression set and resiliency. Temp range -20°F to +350°F (-29°C to +177°C).

Hytrel (Code H) - Blue material. Superior physical and mechanical properties and excellent fluid compatibility and high temperature characteristics. Hardness (50D) approaches that of plastic and offers little resiliency. Excellent performance under heavy duty conditions. Temp range -65°F to +300°F (-54°C to +149°C).

Other materials are available for special applications. Consult factory for recommendations and availability.