REXNORD

PRODUCT CATALOG

OMEGA® ELASTOMERIC COUPLINGS

IMPERIAL

RegalRexnord™

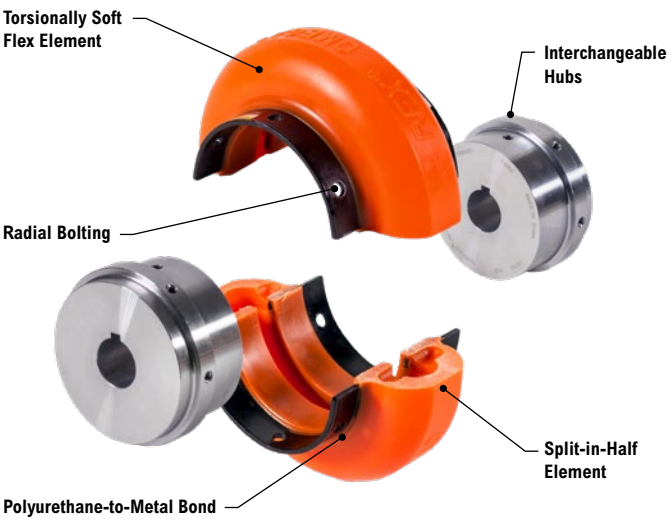
Lowest Total Cost of Ownership

The unique split-in-half flex element and reversible hubs significantly decrease total costs by reducing inventory and assembly time.

Rexnord Omega Couplings are non-lubricated, material-flexing couplings utilizing a specially formulated polyurethane material engineered for maximum durability, strength and fatigue resistance. Omega couplings can operate in horizontal or vertical applications without additional components.

Easy installation and visual maintenance inspection make these couplings a perfect selection for a broad array of industrial applications.

Features and Benefits



- **Torsionally Soft Flex Element** cushions shock loads and vibration, extending equipment life.
- **Split-in-Half Element** design allows for simplified assembly and disassembly without disturbing hubs or connected equipment.
- **Polyurethane-to-Metal Bond** eliminates assembly and slippage problems associated with mechanically clamped designs.
- **Interchangeable Hubs** between close coupled and spacer coupling elements. Hubs have identical bolting patterns which allows for reduced inventory, and are reversible to accommodate a variety of shaft spacing arrangements. Hubs are available in carbon steel, 303-304 stainless steel, or with electroless nickel plating.

Element Design Options

Omega Coupling elements are offered in Close Coupled (E), Spacer (ES), and Half Spacer (E/ES) designs to accommodate a variety of standard and non-standard Distance Between Shaft Ends (DBSE). Spacer elements offer multiple radial bolting holes that accommodate all shaft gaps between the minimum and the maximum using the same components. Sleeve extensions are supplied when shaft spacing requirements require a greater DBSE than the standard spacer element can provide.

Element Options

Standard

- General purpose applications requiring the highest misalignment capacity

Heavy Duty Yellow (HDY)

- 25% greater torque capacity over Standard element catalog ratings allows for possible coupling downsizing
- Interchangeable with existing hubs

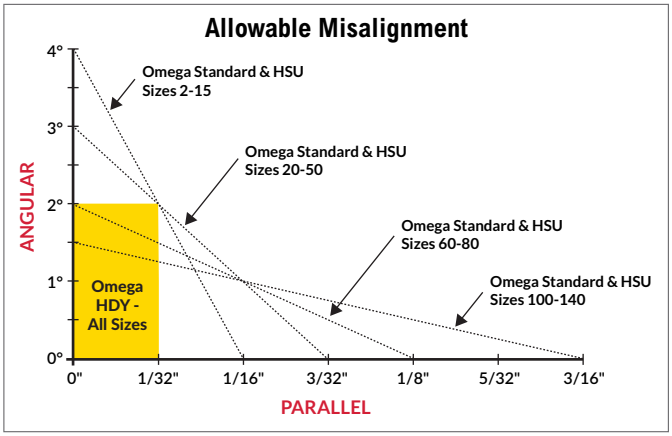
Hydrolytically Stable Urethane (HSU)

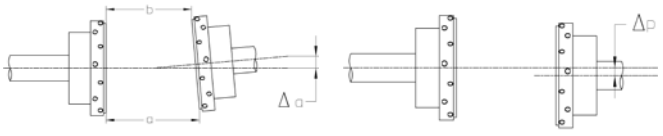
- Ideal for hot and humid conditions, acidic or alkaline environments
- 12-16 year shelf life
- Interchangeable with existing hubs

Misalignment Capacity

Omega Standard and HSU elements maintain their service life for any combination of parallel and angular misalignment measurements which fall on or below the line of the respective size. For Omega HDY, misalignment is limited to 2 degrees angular and 1/32" parallel. (Permissible misalignment values are shown in the yellow region and below the corresponding coupling size dotted line.)

Reliable and efficient equipment operation is directly related to coupling alignment.

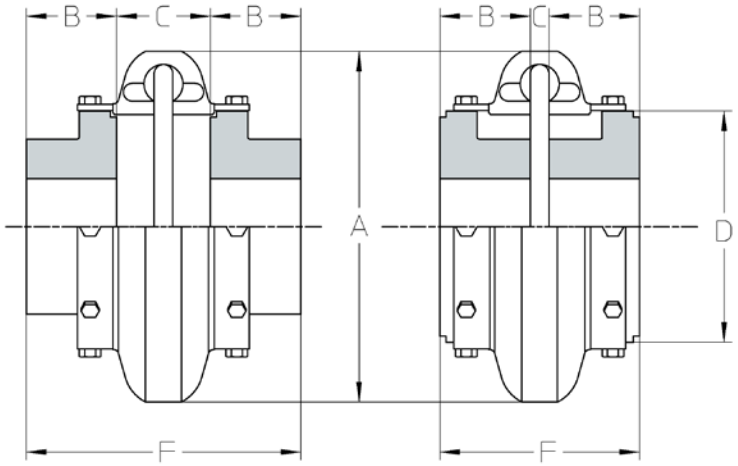




Angular Misalignment **Parallel Misalignment**

Regal Rexnord™ is the leading coupling provider in the industry with a full-line of available solutions supported by trained customer service and application engineering professionals focused on our coupling product lines. For more information, visit regalrexnord.com, or contact (866)-REXNORD.

Omega Close-Coupled Design with Straight Bore Hubs



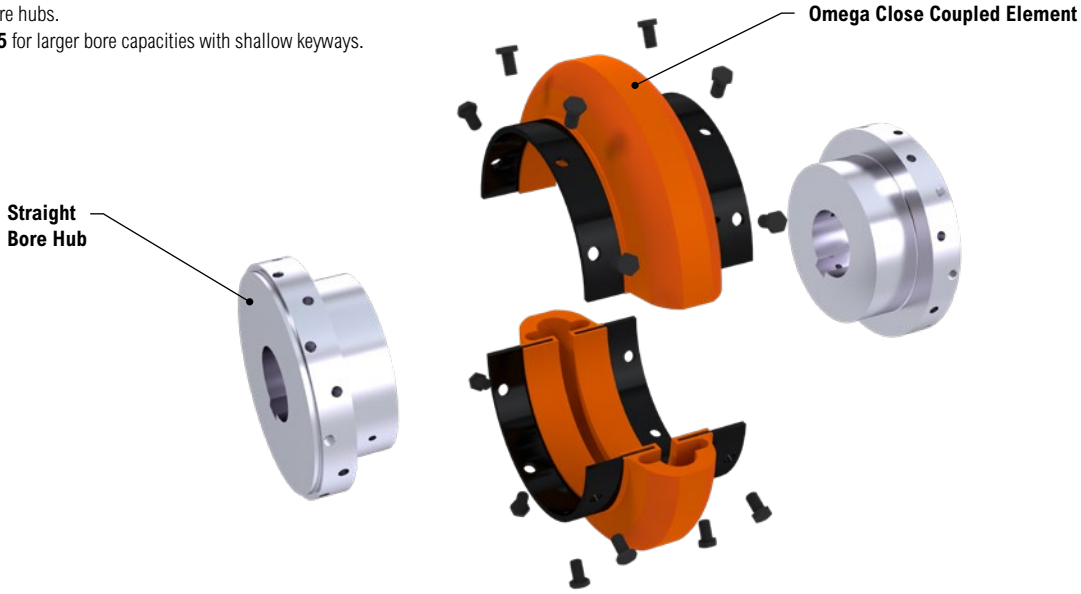
HUBS OUTBOARD

HUBS INBOARD

NOTE: Hub shoulder design varies per coupling size. Consult Regal Rexnord™ for specific size assembly drawings.

Coupling Size	Maximum Bore (in) ⑤	Minimum Bore (in)	Continuous HP/100 RPM	Continuous Torque (lb-in) ②	Maximum RPM	Dimensions (in)							Weight (lb) ④
						A	B	C		D	F		
								(In) ③	(Out)		(In)	(Out)	
E2	1.13	No Min	0.30	190	6600	3.50	0.94	1.34	1.90	1.85	3.22	3.78	1.2
E3	1.38	0.375	0.58	365	6600	4.00	1.50	0.81	1.31	2.32	3.81	4.31	2.4
E4	1.63	0.375	0.88	550	6600	4.56	1.69	0.44	1.31	2.60	3.81	4.69	3.0
E5	1.88	0.375	1.48	925	6600	5.38	1.75	0.81	1.81	3.13	4.31	5.31	5.4
E10	2.13	0.375	2.30	1450	6600	6.38	1.88	0.56	1.84	3.65	4.31	5.56	8.2
E15	2.13	0.375	2.86	1800	6600	6.38	1.88	0.56	1.84	3.65	4.31	5.56	8.3
E20	2.38	0.75	3.65	2300	6600	7.25	2.06	0.50	2.38	4.48	4.62	6.50	13.0
E30	2.88	0.75	5.79	3650	5800	8.25	2.31	0.56	2.44	5.42	5.19	7.06	21
E40	3.38	0.75	8.85	5500	5000	9.50	2.50	0.56	2.68	6.63	5.56	7.68	35
E50	3.63	1.125	12.14	7650	4200	11.00	2.75	0.63	3.38	8.13	6.13	8.88	54
E60	4	1.125	19.84	12,500	3800	12.50	3.25	0.69	3.44	8.75	7.19	9.94	72
E70	4.5	1.375	35.12	22,125	3600	14.00	3.62	0.75	3.75	9.25	8.00	11.00	86
E80	6	1.875	62.7	39,500	2000	16.00	4.87	0.75	5.00	11.25	10.50	14.75	170
E100	6.75	1.875	135	85,050	1900	21.00	5.50	1.75	3.75	14.13	12.75	14.75	244
E120	7.5	1.875	270	170,100	1800	25.00	6.00	2.25	4.88	17.63	14.24	16.88	425
E140	9.00	1.875	540	340,200	1500	30.00	7.00	3.00	5.00	20.88	17.00	19.00	746

① HDY element continous torque rating is 25% greater than Standard and HSU elements.
② Peak torque rating is 250% of the allowable Continuous Torque Rating.
③ Minimum distance between shaft ends is .125 inches.
④ With max bore hubs.
⑤ See **page 15** for larger bore capacities with shallow keyways.



NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.