



PS Series

Perimax[®] Flexible Couplings

Cast aluminum connection ring provides standard SAE flywheel mounting. Ring slides onto coupling tire and provides axial freedom for ease in shaft mounting.

Natural rubber tire is clamped to a steel hub assembly. This design allows tire to be easily replaced without changing entire coupling.

Clamping ring provides necessary compression to transmit torque.

Detachable hub can be customized to accommodate various shaft requirements. Split bushing, bored-to-size, and other designs are available.

Applications

- Motor/Generators
- Compressors
- Construction Equipment
- Mining Equipment
- Marine Propulsion
- Pumps

Constructed for installation ease and long operation!

The Perimax[®] Flexible Couplings permit a quick and simple connection between a flange—especially a flywheel—and a shaft. The coupling tire is made of natural rubber and is clamped to a steel hub assembly. The design of connection ring and tire assembly allows the coupling to be easily mounted/dismounted to a shaft and flywheel. Teeth on the circumference of the tire permit it to engage with the connection ring which bolts to a flange. The axial freedom between the connection ring and the engaged teeth of the tire make shaft positioning non-critical. For each size of coupling, tires of varying torsional stiffness are available. Coupling hubs are made from steel and are customized to particular shaft requirements. Ribs on the tire surface provide adequate air motion for cooling when the coupling is in operation.

Since the connection ring mounts directly on a flywheel, the Perimax[®] couplings are ideal for all types of piston engines. Their simple plug-in design make them ideal for use with bell housings where blind assembly is required.

These couplings may be used in temperatures up to 100 degrees C. For other technical specifications, see the table on the reverse.

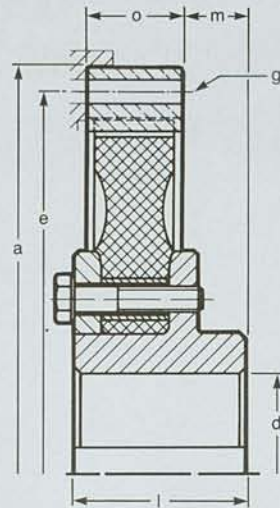
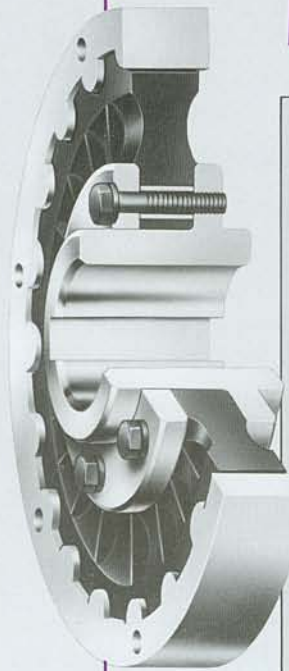


"Simple Solutions to
Problems in Motion."

Stromag, Inc.

PS Series

Perimax® Flexible Couplings



Finished Bores up to 2.00 ± .001
 Finished Bores 2.00 and up ± .002

Stromag, Inc. reserves the right to modify the design without notice.

COUPLING SIZE		PS 1755	PS 1770	PS 1780	PS 2255	PS 2270	PS 2280	PS 2755	PS 2770	PS 2780	PS 3455	PS 3470	PS 3480	PS 4255	PS 4270	PS 4280
Continuous torque rating	(lb-ft)	37	58	87	87	130	181	181	254	362	362	542	723	723	1010	1450
Max. short time rated overload	(lb-ft)	113	174	256	256	390	542	542	795	1084	1090	1520	2140	2140	3020	4350
Diameters	a	8.499	8.499	8.499	10.373	10.373	10.373	12.377	12.377	12.377	13.873	13.873	13.873	18.373	18.373	18.373
	d pilot bore	.472	.472	.472	.787	.787	.787	1.181	1.181	1.181	1.181	1.181	1.181	1.496	1.496	1.496
	d max.	.984	.984	.984	1.575	1.575	1.575	2.165	2.165	2.165	2.755	2.755	2.755	3.937	3.937	3.937
	e	7.87	7.87	7.87	9.625	9.625	9.625	11.625	11.625	11.625	13.125	13.125	13.125	17.251	17.251	17.251
Lengths	g	6 x .35	6 x .35	6 x .35	6 x .43	6 x .43	6 x .43	8 x .43	8 x .43	8 x .43	8 x .43	8 x .43	8 x .43	8 x .53	8 x .53	8 x .53
	l	1.57	1.57	1.57	2.38	2.38	2.38	3.00	3.00	3.00	3.149	3.149	3.149	3.50	3.50	3.50
	m	.19	.19	.19	.69	.69	.69	1.00	1.00	1.00	.885	.885	.885	1.00	1.00	1.00
	o	1.378	1.378	1.378	1.575	1.575	1.575	1.968	1.968	1.968	2.165	2.165	2.165	2.165	2.165	2.165
Dynamic spring rate	(in-lb/rad)	35 x 10 ²	88 x 10 ²	159 x 10 ²	62 x 10 ²	195 x 10 ²	230 x 10 ²	160 x 10 ²	487 x 10 ²	664 x 10 ²	400 x 10 ²	885 x 10 ²	1107 x 10 ²	974 x 10 ²	2214 x 10 ²	2745 x 10 ²
Tightening torque on screws	(lb-ft)	29	29	29	29	29	29	29	29	29	72	72	72	134	134	134
WR ² hub side	(lb-ft ²)	.054	.054	.054	.188	.188	.188	.569	.569	.569	1.713	1.713	1.713	5.609	5.609	5.609
WR ² flange side	(lb-ft ²)	.279	.279	.279	.647	.647	.647	1.248	1.248	1.248	1.363	1.363	1.363	6.230	6.230	6.230
Max. speed	(RPM)	4000	4000	4000	3600	3600	3600	3600	3600	3600	3000	3000	3000	3000	3000	3000
Weight	(lbs)	6.6	6.6	6.6	11.2	11.2	11.2	18.2	18.2	18.2	33	33	33	64	64	64
Radial deflection at M norm degrees		33°	24°	17°	18°	18°	15°	28°	18°	16°	22°	20°	14°	17°	12°	12°
Tire No.		PS1755	PS1770	PS1780	PS2255	PS2270	PS2280	PS2755	PS2770	PS2780	PS3455	PS3470	PS3480	PS4255	PS4270	PS4280

Note: These couplings are available in a variety of bore configurations. Consult factory.



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