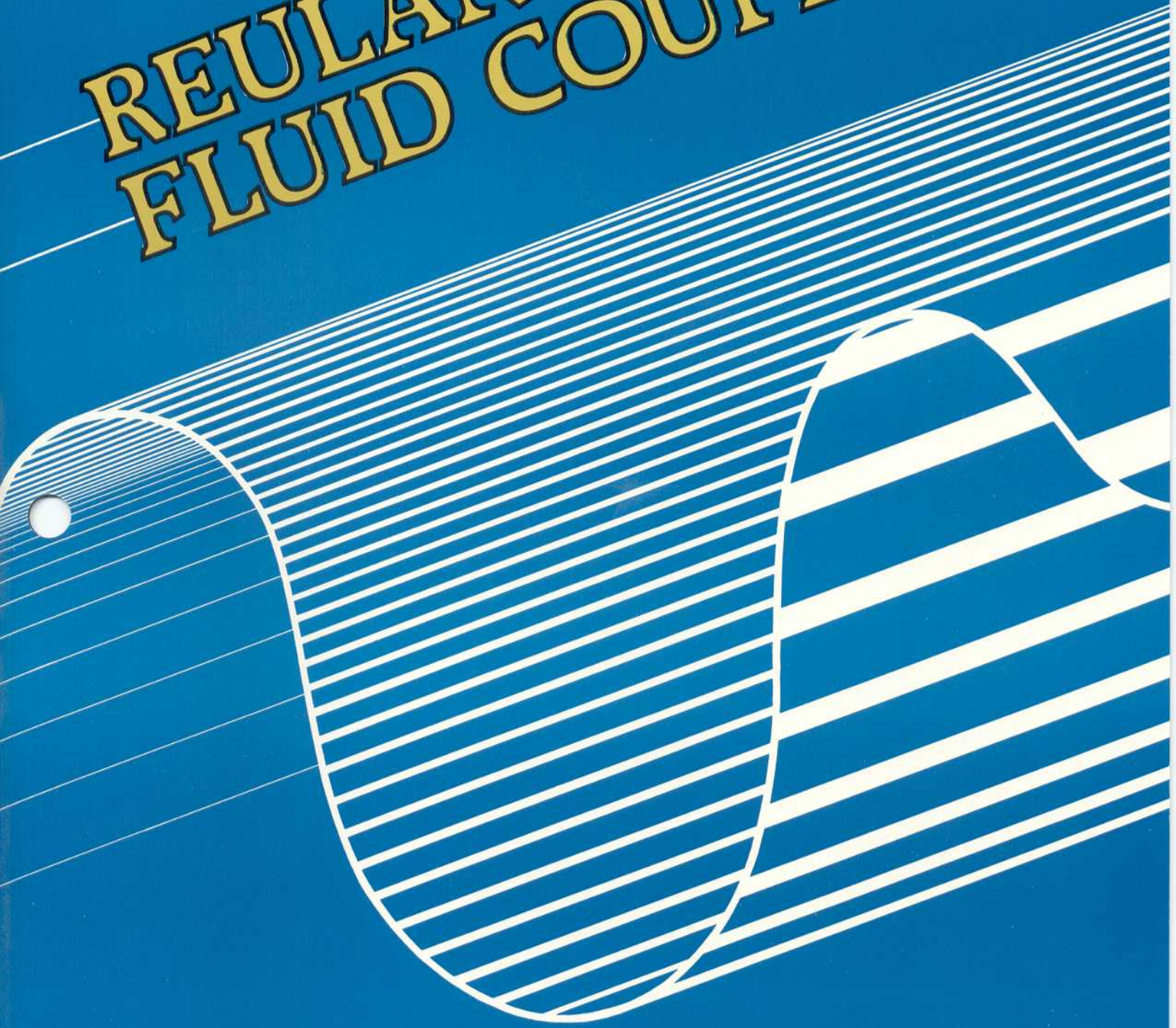


REULAND FLUID COUPLING



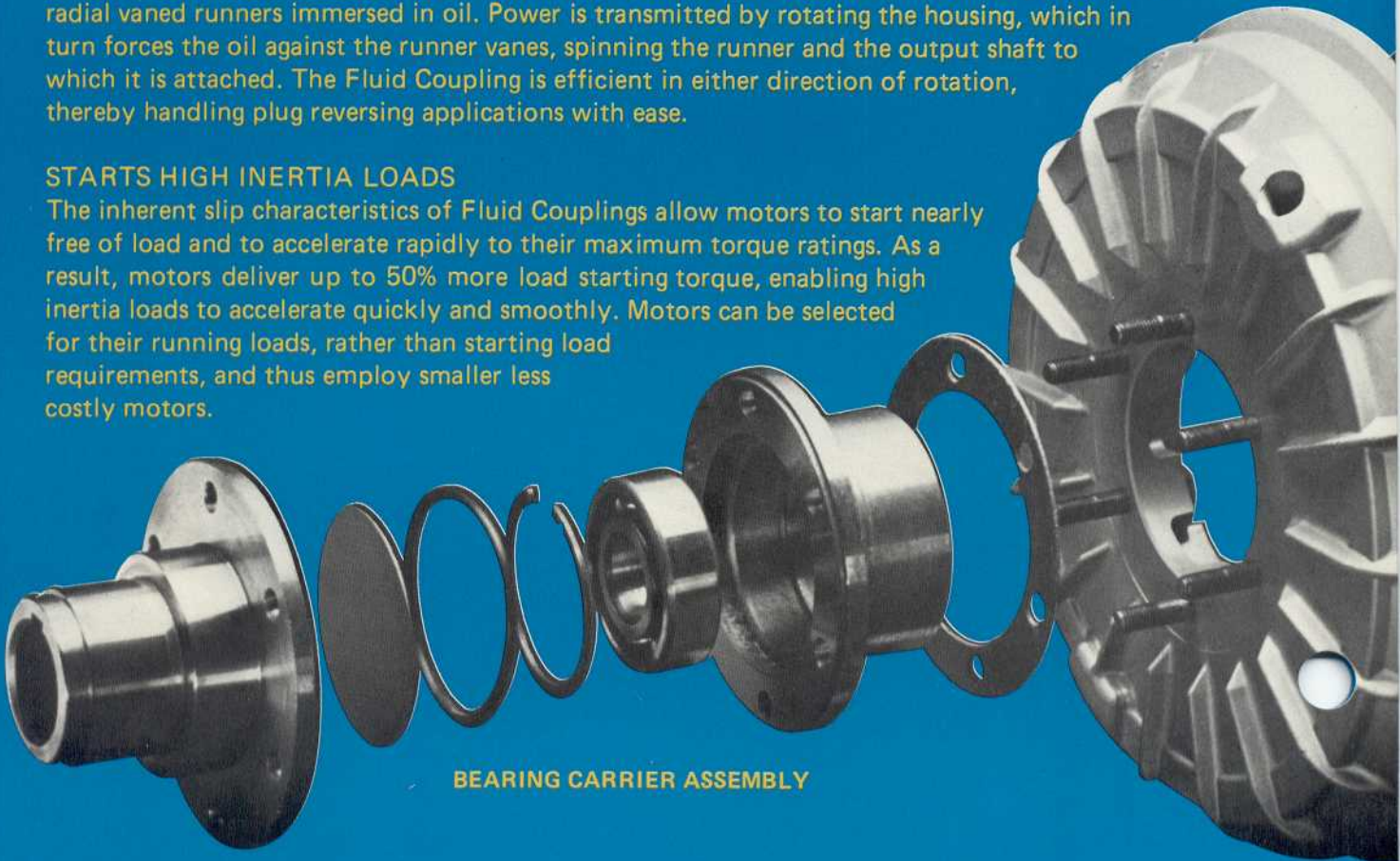
REULAND FLUID COUPLING

ACCELERATES SMOOTHLY

The Fluid Coupling delivers stepless smooth acceleration because it has no mechanical connections. It is a simple two element mechanism comprised of a radial vaned housing enclosing one or more radial vaned runners immersed in oil. Power is transmitted by rotating the housing, which in turn forces the oil against the runner vanes, spinning the runner and the output shaft to which it is attached. The Fluid Coupling is efficient in either direction of rotation, thereby handling plug reversing applications with ease.

STARTS HIGH INERTIA LOADS

The inherent slip characteristics of Fluid Couplings allow motors to start nearly free of load and to accelerate rapidly to their maximum torque ratings. As a result, motors deliver up to 50% more load starting torque, enabling high inertia loads to accelerate quickly and smoothly. Motors can be selected for their running loads, rather than starting load requirements, and thus employ smaller less costly motors.



BEARING CARRIER ASSEMBLY

PROTECTS MOTORS AND DRIVES

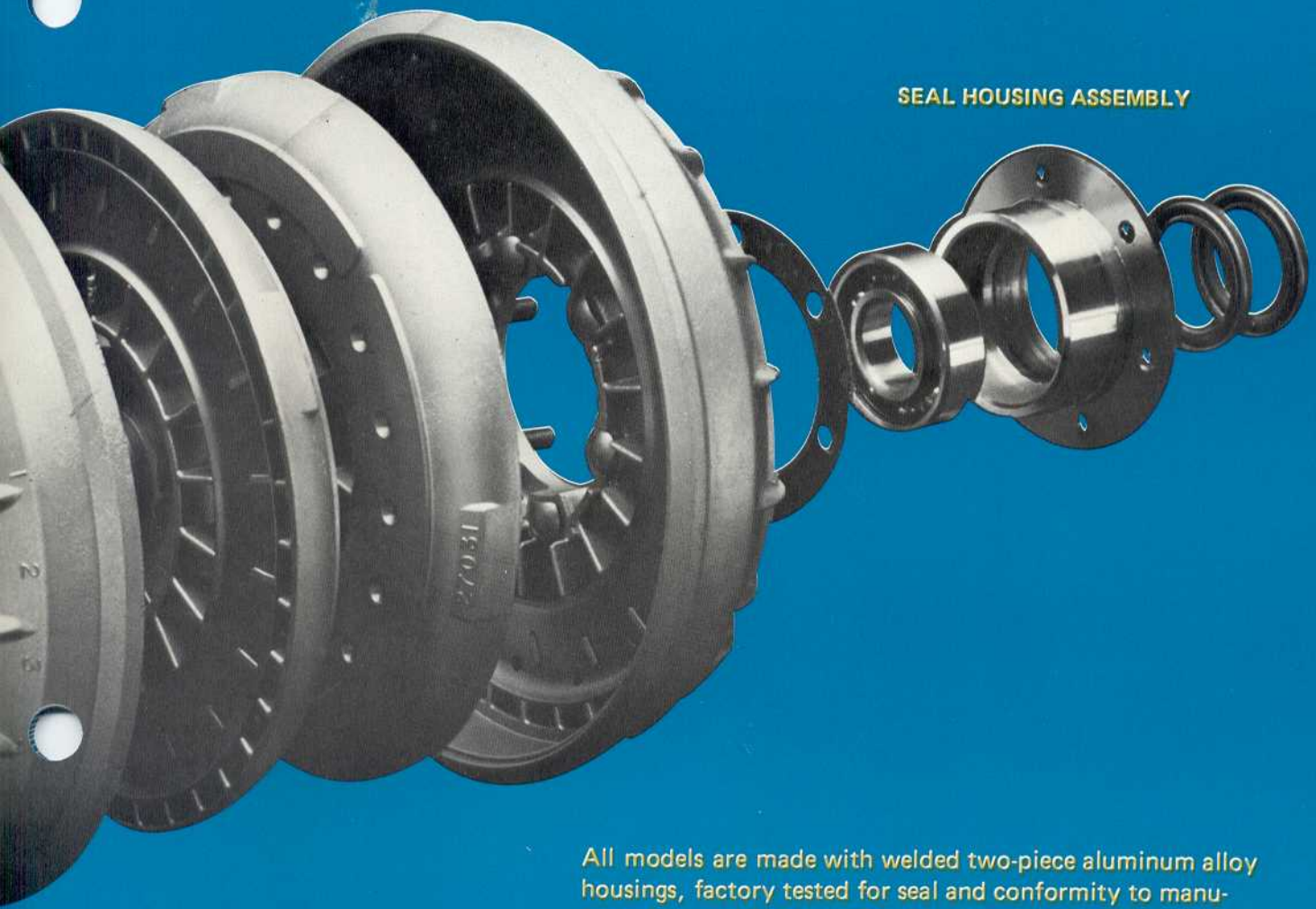
Shocks from equipment overloads, machinery jamming, reversing operations or sudden speed changes are cushioned by increased slip in the coupling fluid. Motor stalling caused by jamming of the driven system, is prevented. During prolonged startups the Fluid Coupling lets motors accelerate to full speed before the load. Current draw is substantially lowered and motor overheating prevented.

SAVES ON MAINTENANCE AND REPAIRS

By cushioning starting loads, line shocks and the like, equipment and motors last longer and require less maintenance and repairs. Also, in many cases Fluid Couplings can save money by eliminating the need for shear pins, slip clutches, special electrical start controls, and by allowing the use of less expensive lower hp motors.

SOLVES MANY MOTOR/DRIVE PROBLEMS

There are many problem drive applications in industry that can be solved with a Fluid Coupling. Typically these include situations requiring the starting of high inertia loads, or when equipment jamming or motor speed changes could create equipment or product damage and high maintenance costs. Conveying systems, crane travel drives, hammer and ball mills, tube and cable stranders, off-the-road vehicles, processing equipment, line systems such as filling and packaging, etc. are users of Fluid Couplings.

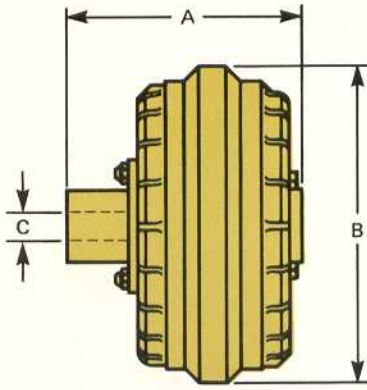


SEAL HOUSING ASSEMBLY

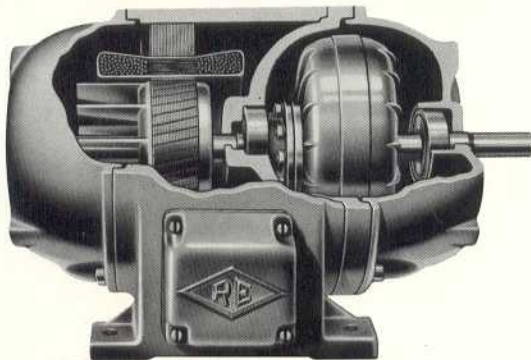
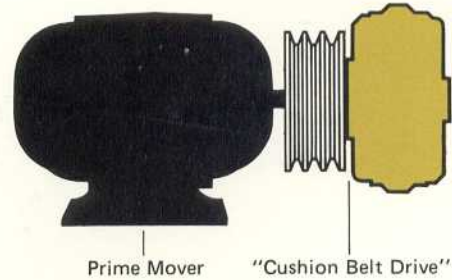
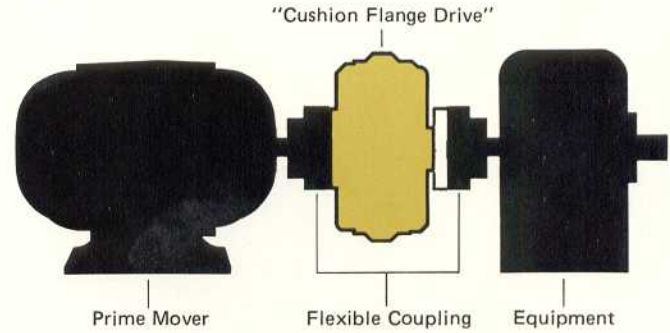
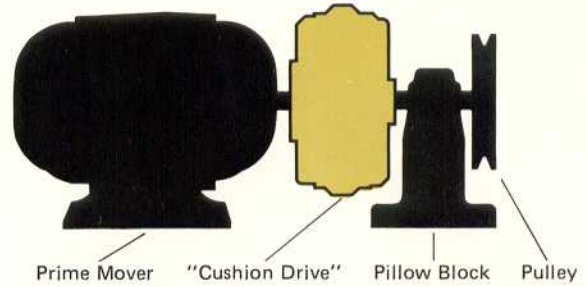
All models are made with welded two-piece aluminum alloy housings, factory tested for seal and conformity to manufacturing specifications. The Fluid Coupling is packaged with your choice of standard drive flanges, and standard and custom input and output shafts and flanges. Models 71 through 92 incorporate ball bearings on both the input and output sides.

SELECTION TABLE

MODEL	HP	RPM
61	.5-.75	1800
71	.5	1200
	1-1.5	1800
72	.75-1.5	1200
	2-3	1800
82	2-3	1200
	5	1800
92	5	1200
	7.5-15	1800



MODEL	DIMENSION"		C. STANDARD DRIVE FLANGES	
	A	B	BORES"	KEYWAYS"
61	4.50	6.75	.625	3/16
			.750	
			.875	
71	5.62	8.50	.750	3/16
			.875	
			1.000 1.125	1/4
72	6.38	8.50	.750	3/16
			.875	
			1.000 1.125	1/4
82	6.50	9.75	1.000 1.125	1/4
			1.250 1.375	
			92	8.12
1.250 1.375	5/16			
1.625	3/8			



REULAND FLUID SHAFT® MOTOR ...motor and Fluid Coupling in one frame!

One-frame design reduces the overall length. You get all the advantages of smooth stepless acceleration, overload protection and non-stalling of the Fluid Coupling, plus Reuland's world renowned motor construction and "Xpandable" design concept. Fluid Shaft motors cost less, too, than separately mounted motors and couplings. Available .5 to 15 hp.



REULAND ELECTRIC

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