

“REFLEX”

High Torque Couplings Type P

Pin type shaft couplings with FLEXRINGS to carry the load evenly. Extra strong pins of robust and unique design. Identical flanges. Ratings match shaft diameters. Designed for high torque.

Ratings Chart No.1

Coupling No.	Max. Equiv. Shaft Dia. Matl. to BS4360/43a mm	Power Per 100 RPM kW	Maximum Torque		Max. RPM
			Nm(J)	Kg.mf	
P155	40	15.75	1500	150	3000
P220	75	37	3490	360	2250
P260	90	60	5700	580	2000
P300	110	115	10970	1120	1750
P350	125	160	15240	1550	1500
P400	140	235	22360	2280	1500

Selection

- A Select the appropriate service factor (SF) from Chart No 2.
- B Calculate the suitable coupling ratings:

$$\frac{\text{Actual Load (kW)} \times 100 \times \text{SF}}{\text{Coupling RPM}} = \text{kW per / 100 RPM}$$
- C Check that the coupling selected can accommodate the larger of the shaft diameters.
- D When actual load is unknown, select a coupling with “equiv. shaft dia”. the same or greater than the smaller shaft - providing both shafts are mild steel.
- E For high inertia, stalling or braking torques greater than twice the catalogued rating, select a coupling rated no less than:

$$\frac{\text{Max. Drive Torque}}{2}$$
- F For multi-cylinder internal combustion engines: **Add 0.5 to SF**
- G For single-cylinder internal combustion engines: **Add 1.00 to SF**
- H Drives subject to torsional vibration must be referred to factory.

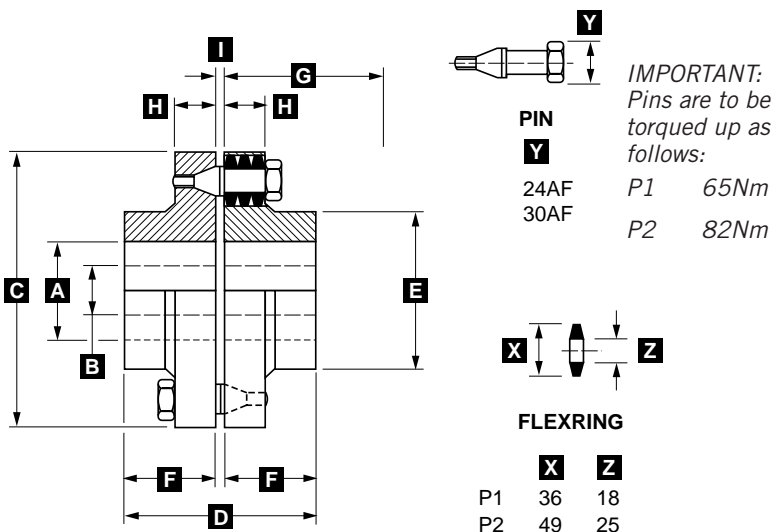
Service factors Chart No.2

Even Load SF = 1.0		Fluctuating Load SF = 1.5	
AGITATORS	- constant density	AGITATOR	- variable density - liquid and solid
COMPRESSORS	- rotary - uniform load	COMPRESSOR	- rotary - fluctuating load
CONVEYORS	- apron belt/screw-uniform load	CONVEYORS	- apron/belt/screw-fluctuating load
DYNAMOMETERS	- uniform load	CRANES/HOISTS	- light duty
FANS	- centrifugal - light duty	DRYERS/COOLERS	- rotary type
GENERATORS	- uniform load	DYNAMOMETERS	- fluctuating load
PUMPS	- centrifugal - uniform load	ELEVATORS	- belt/bucket
SCREENS	- airwashing/water (bar type)	FANS	- centrifugal
		FOOD INDUSTRY	- filling machines
		GENERATORS	- fluctuating load i.e. hoists
		KILNS	- small-medium
		MACHINE TOOLS	- light duty
		PRESS	- printing
		PUMPS	- centrifugal/geared rotary
		SCREENS	- rotary trommel
		TEXTILE INDUSTRY	- general
		TIMBER INDUSTRY	- woodworking machines
Shock Load SF = 2.0		Heavy Shock Load SF = 3.0	
AGITATORS	- large solids	COMPRESSORS	- single cylinder
CALENDERS		CONVEYORS	- reciprocating/vibrating/live roll/shacking
CENTRIFUGES		CRANES/HOISTS	- heavy duty
COMPRESSORS	- lobe/multi-cylinder	CRUSHERS	- crushing and grinding mills
CONVEYORS	- apron/shuttle	DRILLING RIGS	
CRANES/HOISTS	- medium duty	MACHINE TOOLS	- croppers/shears/notching and punching presses
CRUSHERS	- sugar Industry		
EXTRUDER/INJECTOR		MINING INDUSTRY	
FANS	- forced/Induced draft cooling tower	PUMPS	- plunger - single cylinder
GENERATOR	- heavy load i.e. welders/cranes	RUBBER INDUSTRY	- crackers/mills/mixers
KILNS	- large - heavy duty	SCREENS	- oscillating/vibrating
MACHINE TOOLS	- guillotines/forming presses	STEEL INDUSTRY	
MIXERS	- concrete	SUGAR INDUSTRY	- cane shredders
PRESSES	- briquette/forming/punching	WINCHES/WINDERS	- heavy duty
PUMPS	- plunger/multi-cylinder/ reciprocating/vane/lobe		
SAWS	- circular/gang		
SUGAR INDUSTRY	- crushing rolls		
TIMBER INDUSTRY	- sawmill equipment		
TUMBLERS			
WASHERS			
WINCHES/WINDERS			

Dimensions (millimetres) Chart No.3

Note - Setting Width is Critical

Coupling Size	Thru Bore Dia (including Key)		Taper Bore		Overall		Boss		Removal Pin	Flange Width	Setting Width	No. of Pins	Pin & "Flex, ring Type	Weight Kg
	Max	Min	Bush No.	Max Bore	Dia	Length	Dia	Dist. Through						
	A	B			C	D	E	F	G	H	I			
P155	40	25	1215	32	155	107	66	52	100	30	3	10	P1	12
P220	75	38	2525	60	220	133	125	65	100	30	3	16	P1	16
P260	95	38	3030	75	260	159	160	78	100	30	3	20	P1	30
P300	110	48	3535	90	300	205	176	100	180	55	5	14	P2	56
P350	125	60	4040	100	350	235	216	115	180	55	5	16	P2	82
P400	150	60	5050	125	400	265	260	130	180	55	5	20	P2	124



Alignment Chart No.4

Coupling Number	Misalignment Max.		Longitudinal mm
	Angular	Parallel mm	
P155	0.15°	0.13	3
P220	0.15°	0.13	3
P260	0.15°	0.13	3
P300	0.15°	0.13	5
P350	0.15°	0.13	5
P400	0.15°	0.18	5

NOTE: Coupling power ratings are based on accurate alignment - any misalignment will reduce the coupling life and/or rating.

Made in N.Z. by

MAUD, KIRK

MACHINERY LIMITED

AUCKLAND • WELLINGTON • CHRISTCHURCH

**(New Zealand Patent 180869 - Australian Patent 20092/76)*

Specifications and illustrations are subject to revision without notice.