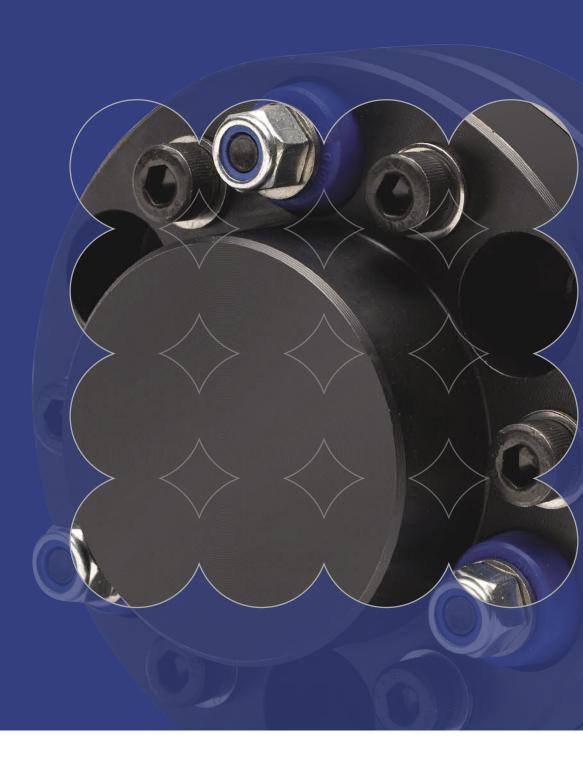
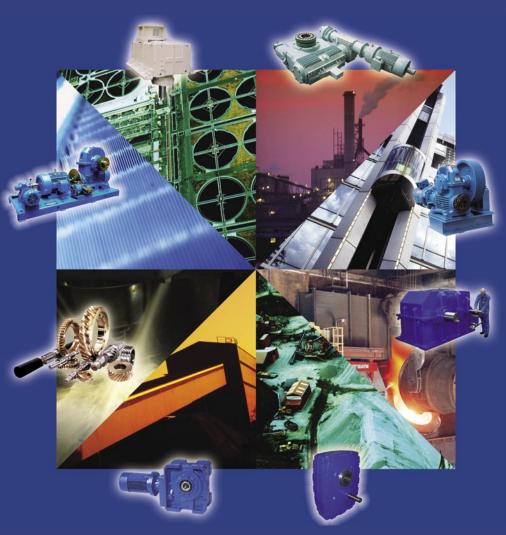
Pinflex Couplings





RENOLD

Strength through Service
Renold Gears has been manufacturing high quality, high specification gear units for over 100 years and has always been at the leading edge of gear technology with innovative products and power transmission solutions.



Interchangeability

Many of the products from Renold Gears are dimensionally interchangeable with other manufacturers gear units, allowing a trouble free replacement of gearboxes, in most cases upgrading the capacity through state of the art technology and materials.

Custom Made

Renold Gears is unique in it's ability to offer custom made products designed to meet customers exacting requirements without compromise on availability and cost. From complete package solutions to individual precision replacement gears, all can be tailor made to meet specific applicational requirements.

Available

The most popular ranges of gearboxes are available from local distribution stock, backed up by extensive stocks from our manufacturing plant in the UK.



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The **RENOLD** Collection

















The **RENOLD** Collection







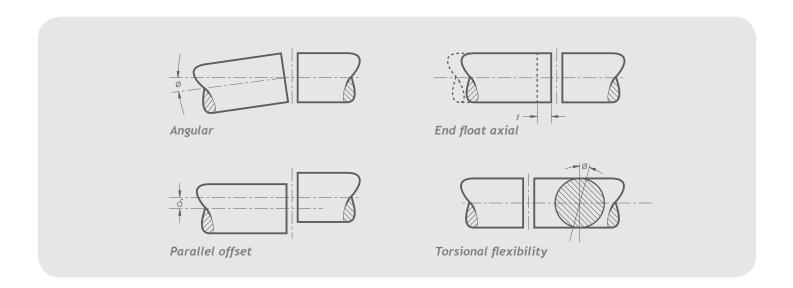








Coupling Selection Guide



Flexible Couplings should be used to accommodate any combination of misalignment conditions described below.

At installation all couplings should be aligned as near to perfect as possible.

1. Angular

Angular misalignment is present when the shaft axes are inclined one to the other. Its magnitude can be measured at the coupling faces.

2. Parallel Offset

Parallel misalignment is present when the axes of the driving and driven shafts are parallel but laterally displaced.

3. End float (axial)

End float is the ability to accommodate a relative axial displacement of the connected shafts; achieved by sliding members or flexing of resilient components.

4. Torsional flexibility

Torsional flexibility is a design feature necessary to permit shock and impulsive loadings to be suitably dampened. It is achieved by the provision of a flexible medium such as rubber, springs, etc., between the two halves of the coupling.

Selection

In order to select the correct type and size of coupling, the following basic information should be known:

Power to be transmitted

- (a) Normal.
- (b) Maximum.
- (c) Whether continuous or intermittent.

Characteristics of the drive

- (a) Type of prime mover and associated equipment.
- (b) Degree of impulsiveness of driven load.

Speed in revolutions per minute

- (a) At which normal power is transmitted.
- (b) At which maximum power is transmitted.
- (c) Maximum speed.

Dimensions of shafts to be connected

- (a) Actual diameter.
- (b) Length of shaft extension.
- (c) Full keyway particulars.

Selection

When the input drive is not steady (i.e. not from an electric motor), and/or the driven load is impulsive, the actual power is multiplied by a Service Factor from the Table 2 (page 13).

Selection Procedure

- 1. Nominal power in kW to be transmitted = K.
- 2. Select appropriate load classification from Table 1, denoted as either S, M or H.
- 3. From Table 2, establish Service Factor(s) to be applied, taking into account hours of operation/day and prime mover = fD.
- 4. From Table 3 select factor for the required frequency of starts/hr = fS.
- 5. Selection Power $Ks = K \times fD \times fS$
- 6. Equivalent power at 100 RPM = $\frac{\text{Ks x } 100}{\text{RPM}}$
- 7. Check that coupling selected will accept the required shaft diameters. Should shaft diameter exceed maximum permissible, then re-select using next larger size of coupling.

Load Classification by Application

able 1		Dry dock cranes	(2)	Planer feed chains	W	Presses	N
Agitators		Main hoist	(2)	Planer floor chains	M	Pulp machine reel	Ν
	S	Auxiliary hoist	(2)	Planer tilting hoist	М	Stock chest	Ν
Pure liquids		Boom, luffing	(2)	Re-saw merry-go-round conveyor	М	Suction roll	Ν
Liquids and solids	W	Rotating, swing or slew	(3)	Roll cases	Н	Washers and thickeners	٨
Liquids - variable density	М	Tracking, drive wheels	(4)	Slab conveyor	Н	Winders	٨
Blowers		Elevators		Small waste conveyor-belt	S	Printing presses	*
Centrifugal	S	Bucket - uniform load	S	Small waste conveyor-chain	М	Pullers	
Lobe	M	Bucket - heavy load	M	Sorting table	М		4
Vane	S	Bucket - continuous	S	Tipple hoist conveyor	M	Barge haul	H
				Tipple hoist drive	M	Pumps	
Brewing and distilling		Centrifugal discharge	S		M	Centrifugal	S
Bottling machinery	S	Escalators	S	Transfer conveyors		Proportioning	Ν
Brew kettles - continuous duty	S	Freight	М	Transfer rolls	W	Reciprocating	
Cookers - continuous duty	S	Gravity discharge	S	Tray drive	M	single acting: 3 or more cylinders	Ν
Mash tubs - continuous duty	S	Man lifts	*	Trimmer feed	М	double acting: 2 or more cylinders	٨
Scale hopper - frequent starts	M	Passenger	*	Waste conveyor	M	single acting: 1 or 2 cylinders	*
Can filling machines	S	Extruders (plastic)		Machine tools			4
<u> </u>		Film	S	Bending roll	М	double acting: single cylinder	
Cane knives (1)	М			Punch press - gear driven	Н	Rotary - gear type	S
Car dumpers	Н	Sheet	S		*	Rotary - lobe, vane	5
Car pullers	М	Coating	S	Notching press - belt drive		Rubber and plastics industries	
Clarifiers	S	Rods	S	Plate planners	Н	Crackers (1)	F
		Tubing	S	Tapping machine	Н	Laboratory equipment	N
Classifiers	М	Blow moulders	M	Other machine tools		Mixed mills (1)	,,
Clay working machinery		Pre-plasticiers	M	Main drives	М		Λ
Brick press	Н	Fans		Auxiliary drives	S	Refiners (1)	
Briguette machine	H	Centrifugal	S	Metal mills		Rubber calenders (1)	٨
Clay working machinery	M		3	Drawn bench carriage and		Rubber mill, 2 on line (1)	N
Pug mill	M	Cooling towers	*	main drive	AA	Rubber mill, 3 on line (1)	S
	IVI	Induced draft			M	Sheeter (1)	Ν
Compressors		Forced draft	*	Pinch, dryer and scrubber	*	Tyre building machines	*
Centrifugal	S	Induced draft	M	rolls, reversing		Tyre and tube press openers	*
_obe	M	Large, mine etc.	M	Slitters	М	Tubers and strainers (1)	Ν
Reciprocating - multi-cylinder	M	Large, industrial	М	Table conveyors nonreversing		Warming mills (1)	N
Reciprocating - single cylinder	Н	Light, small diameter	S	group drives	M		
Conveyors - uniformly loaded or fo		Feeders		Individual drives	Н	Sand muller	٨
•				Reversing	*	Screens	
Apron	S	Apron	W	Wire drawing and flattening machine	М	Air washing	S
Assembly	S	Belt	M	Wire winding machine	M	Rotary, stone or gravel	Ν
Belt	S	Disc	S	-	741	Travelling water intake	S
Bucket	S	Reciprocating	Н	Mills, rotary type		Sewage disposal equipment	
Chain	S	Screw	M	Ball (1)	М	Bar screens	S
Flight	S	Food industry		Cement kilns (1)	М		
Oven	S	Beef slicer	М	Dryers and coolers (1)	M	Chemical feeders	S
Screw	S	Cereal cooker	S	Kilns other than cement	M	Collectors	S
Conveyors - heavy duty		Dough mixer	M	Pebble (1)	М	Dewatering screws	Ν
				Rod, plain & wedge bar (1)	M	Scum breakers	Ν
not uniformly fed		Meat grinder	М	Tumbling barrels	Н	Slow or rapid mixers	Ν
Apron	W	Generators - not welding	S	•		Thickeners	Ν
Assembly	M	Hammer mills	Н	Mixers		Vacuum filters	Ν
Belt	M	Hoists	•	Concrete mixers continuous	M	Slab pushers	N
Bucket	M			Concrete mixers intermittent	М		
Chain	M	Heavy duty	Н	Constant density	S	Steering gear	*
Flight	M	Medium duty	M	Variable density	М	Stokers	S
_ive roll	*	Skip hoist	M	Oil industry		Sugar industry	
Oven	М	Laundry		Chillers	М		
		Washers - reversing	М		//\ *	Cane knives (1)	N
Reciprocating	H	Tumblers	W	Oil well pumping		Crushers (1)	٨
Screw	W	The state of the s	///	Paraffin filter press	W	Mills (1)	Ν
Shaker	Н	Line shafts		Rotary kilns	М	Textile industry	
Crane Drives - not dry dock		Driving processing equipment	М	Paper mills		Batchers	Ν
Main hoists	S	Light	S	Agitators (mixers)	М	Calenders	٨
Bridge travel	*	Other line shafts	S	Barker - auxiliaries hydraulic	M	Cards	N
Trolley travel	*	Lumber industry		Barker - mechanical	Н		
•		Barkers, hydraulic, mechanical	М			Dry cans	٨
Crushers				Barking drum	Н	Dryers	N
Ore	Н	Burner conveyor	W	Beater and pulper	W	Dyeing machinery	٨
Stone	Н	Chain saw and drag saw	Н	Bleacher	S	Looms	٨
Sugar (1)	M	Chain transfer	Н	Calenders	М	Mangles	٨
Oredges		Craneway transfer	Н	Calenders - super	Н	Nappers	٨
Table reels	М	De-barking drum	Н	Converting machine except		Pads	٨
		Edger feed	M	cutters, platers	M	Range drives	,
Conveyors	W	Gang feed	M	Conveyors	S	Slashers	٨
Cutter head drives	Н	Green chain	M				
lig drives	Н			Couch	W	Soapers	٨
Manoeuvring winches	M	Live rolls	Н	Cutters, platers	Н	Spinners	٨
Pumps	M	Log deck	Н	Cylinders	M	Tenter frames	٨
Screen drive	H	Log haul - incline	Н	Dryers	М	Washers	٨
Stackers	M	Log haul - well type	Н	Fell stretcher	М	Winders	٨
	M	Log turning device	Н	Fell whipper	Н	Windlass	*
	141						
Jtility winches		 Main log conveyor 	Н	Jordans	M		

Key

S = Steady (1) = Select on 24 hours per day service factor only.

= Steady (1) = Select on 24 hours per day service factor only.

1 = Medium Impulsive (2) = Use service factor of 1.00 for any duration of service.

H = Highly Impulsive (3) = Use service factor of 1.25 for any duration of service.

* = Refer to Renold

(4) = Use service factor of 1.50 for any duration of service.

Note

Machinery characteristics and service factors listed in this catalogue are a guide only. Some applications (e.g. constant power) may require special considerations. Please consult Renold.

Service Factors and Selection

Table 2 Service Factor (fp)

Prime mover		Driven machiner	y characteristics	
(Drive input)	Duration service hours/day	Steady load	Medium impulsive	Highly impulsive
Electric, air & hydraulic Motors or steam turbine (Steady input)	Intermittent - 3hrs/day max 3 - 10 over 10	0.90 1.00 1.25	1.00 1.25 1.50	1.50 1.75 2.00
Multi-cylinder I.C. engine (Medium impulsive input)	Intermittent - 3hrs/day max 3 - 10 over 10	1.00 1.25 1.50	1.25 1.50 1.75	1.75 2.00 2.25
Single-cylinder I.C. engine (Highly impulsive input)	Intermittent - 3hrs/day max 3 - 10 over 10	1.25 1.50 1.75	1.50 1.75 2.00	2.00 2.25 2.50

Table 3 Factor for Starts/Hour(fs)

No of starts per hour	0-1	1-30	30-60	60-
Factor	1,0	1,2	1,3	1,5

Example of Selection

Coupling is required to transmit 7.5kW at 1440 RPM to connect an electric motor to a gear box driving a chain conveyor running for 18 hours/day and starting 15 times/hour. Shaft diameters /55mm respectively.

K = 7.5kW

From Table 1 Load Classification = M (medium impulsive)

From Table 2 Service Factor fp = 1.5

From Table 3 $f_S = 1.2$

Therefore selection kW is:-

 $Ks = K \times f_D \times fS$ = 7.5 x 1.5 x 1.2

= 13.5 kW

Equivalent power at 100 RPM = $\frac{\text{Ks x 100}}{\text{RPM}}$

= 1<u>3.5 x 100</u> 1440

= 0.9375kW @ 100RPM

From page 17 selection is RSC110 (644911) (maximum bore 55 mm).



It is the responsibility of the system designer to ensure that the application of the coupling does not endanger the other constituent components in the system. Service factors given are an initial selection guide.

Key Stress

- 1. Permissible key stress = 70N/mm²
- 2. Nominal torque $T_{KM} = K \times 9550 / RPM Nm$
- 3. Force at key $F = T_{KM} / r$
- 4. Shaft Rad r. metres
- 5. Key area A = J x HUB length mm (Obtain from relevant catalogue page).
- 6. Key stress $fk = F/A N/mm^2$
- 7. If resultant stress is less than 70 N/mm² key stress is acceptable.

If resultant fk is greater than 70, consider either two keyways or extending hub length.

8. Example:

 $T_{KM} = 7.5 \times 9550/1440 = 49.7Nm$

r = 55/2 = 27.5mm ÷ 1000 = 0.0275m

F = 49.7/0.0275 = 1741N

 $A = 16 \times 45 = 720 \text{mm}^2$

fk = 1741/720 = N/mm2

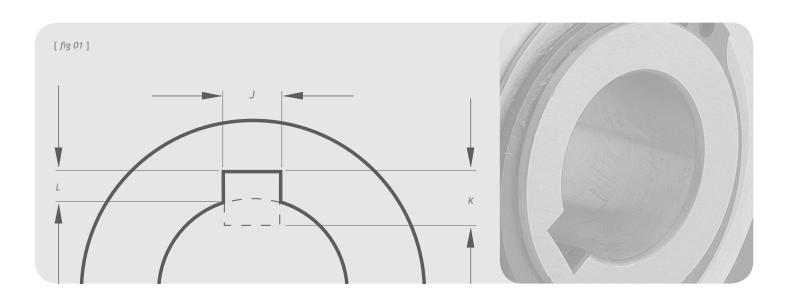
Selection is therefore good.

For operation above 80% of the declared maximum coupling speed it is recommended that the coupling is dynamically balanced.



Rotating equipment must be provided with a suitable guard before operating or injury may result.

Key and Keyway Dimensions



Metric (mm)

Keyways comply with BS4235: Part 1: 1972

Sha	ıft dia.	١	Key & keywa	у
Over	Incl.	J	K	L
6	8	2	2	1.0
8	10	3	3	1.4
10	12	4	4	1.8
12	17	5	5	2.3
17	22	6	6	2.8
22	30	8	7	3.3
30	38	10	8	3.3
38	44	12	8	3.3
44	50	14	9	3.8
50	58	16	10	4.3
58	65	18	11	4.4
65	75	20	12	4.9
75	85	22	14	5.4
85	95	25	14	5.4
95	110	28	16	6.4
110	130	32	18	7.4
130	150	36	20	8.4
150	170	40	22	9.4
170	200	45	25	10.4
200	230	50	28	11.4

Imperial (inches)

Keyways comply with BS46: Part 1: 1958

Sha	ıft dia.		Key & keywa	У
Over	Incl.	J	K	L
0.25	0.05	0.125	0.125	0.060
0.50	0.75	0.187	0.187	0.088
0.75	1.00	0.250	0.250	0.115
1.00	1.25	0.312	0.250	0.112
1.25	1.50	0.375	0.250	0.108
1.50	1.75	0.437	0.312	0.135
1.75	2.00	0.500	0.312	0.131
2.00	2.50	0.625	0.437	0.185
2.50	3.00	0.750	0.500	0.209
3.00	3.50	0.875	0.625	0.264
3.50	4.00	1.000	0.750	0.318
4.00	5.00	1.250	0.875	0.366
5.00	6.00	1.500	1.000	0.412

Keyway dimensions [fig 01]

Parallel keyways are supplied unless customer states otherwise.

Pinflex



A robust, general purpose pin/buffer coupling providing reliable fail safe transmission of torque and misalignment capability.

Coupling capacity

- Maximum power @ 100RPM: 340kW
- Maximum torque: 32500Nm

Features and benefits

- Steel half bodies, strong yet compact.
- Heavy duty pin and buffer coupling
 for heavy shock load conditions.
- Torsionally flexible shock absorbing, extending machine life.
- Maintenance free minimum number of wearing parts.
- Misalignment capabilities allowing flexibility in installation.
- Common half bodies minimalise stock holding.
- Polyurethane buffers, reliable/ flexible and temperature resistant.

- Modular construction available as coupling, brakedrum and shear pin designs.
- Taper bores available for ease of maintenance.
- Potential energy saving when used to replace older cast iron pin and bush couplings.

Standard range comprises

- Shaft to Shaft
- Shear Pin
- Brake Drum/Disc

Applications

- Conveyors
- Escalators
- Mixers
- Pumps
- General Industrial Applications

Construction details

- Steel Half Bodies
- Urethane Buffer (Blue),
 Shore hardness 90-95A
 Temp range; -40°C to +80°C
- Hytrel Buffer (White)
 Shore hardness 55D
 Temp range: -50°C to +120°C

General misalignments Parallel Offset

Max 0.13mm

Angular

Max 0.25°

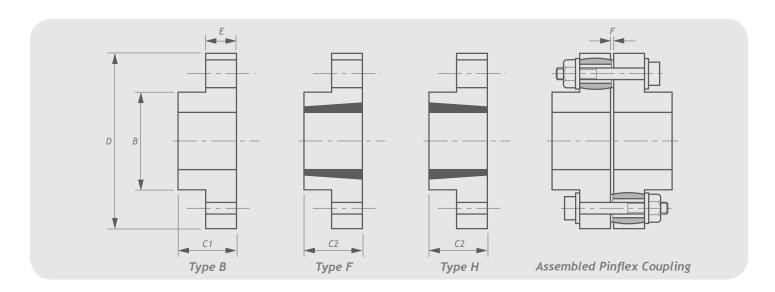


Can be certified for use in potentially explosive atmospheres containing gas or dust, according to ATEX directive 94/9/EC.

The couplings are classified for equipment group II, categories 2 and 3.

Contact Renold for further details.

Pinflex



Catalogue	Product	Power/	Torque	Speed	Тур	е В	Туре	F& H	ł		ا	Dime	nsion	S		Туре В		Type F & H	
number	number		nominal		Во	re	Bush	Во	re	В	C1	C2	D	Е	F	Mass*	WR ^{2*}	Mass*	WR ^{2*}
		kW	Nm	rpm	Max	Min	size	Max	Min	mm	mm	mm	mm	mm	mm	kg	kg m²	kg	kg m²
PF1# #3	8001042/3	2.03	194																
PF1# #6	8001042/6	4.05	387			_													
PF1BB9	8001042/9	6.08	581	6800	50	0	TB1215	32	11	70	44	40	125	20	4	5.2	0.00828	5.0	0.00813
PF1BB12	8001042/12	8.1	774																
PF2# #3	8002050/3	3.59	343																
PF2# #6	8002050/6	7.18	685												_				
PF2BB9	8002050/9	10.76	1028	5900	55	0	TB1615	42	14	80	50	40	145	25	5	8.3	0.01843	7.6	0.01780
PF2BB12	8002050/12	14.35	1370																
PF3# #3	8003060/3	4.24	405																
PF3# #6	8003060/6	8.48	810												_				
PF3BB9	8003060/9	12.71	1214	5200	72	0	TB2017	50	18	100	60	47	165	25	5	13.8	0.03335	12.1	0.03143
PF3BB12	8003060/12	16.96	1620																
PF4# #3	8004075/3	8.32	795																
PF4# #6	8004075/6	16.65	1590																
PF4BB9	8004075/9	24.97	2384	4400	80	0	TB2525	60	19	113	75	65	195	35	6	22.0	0.08470	20.3	0.08195
PF4BB12	8004075/12	33.29	3179																
PF5# #4	8005090/4	13.94	1331																
PF5# #8	8005090/8	27.88	2662																
PF5# #12	8005090/12	41.82	3994	3600	110	0	TB3030	75	35	150	89	80	235	35	6	37.8	0.19972	35.3	0.19274
PF5BB16	8005090/16	55.76	5325																
PF6# #3	8006110/3	24.70	2359																
PF6# #6	8006110/6	49.40	4717		400					400		0.4			_			<i></i> -	
PF6# #9	8006110/9	74.10	7076	2900	130	55	TB3535	90	35	180	110	91	290	50	7	/3.2	0.61140	65.2	0.58086
PF6BB12	8006110/12	98.80	9435																
PF7# #4	8007130/4	37.18	3550																
PF7# #8	8007130/8	74.35	7100	2400	450	45	TD 40 40	400	40	240	420	405	220	F0	_	402.0	0.00757	00.5	0.00040
PF7# #12	8007130/12	111.53	10650	2600	150	65	TB4040	100	40	210	130	105	320	50	7	103.0	0.99756	88.5	0.92310
PF7BB16	8007130/16	148.70	14200																
PF8# #4	8008150/4	64.70	6179																
PF8# #8	8008150/8	129.40	12357	2200	475	75	TDEAGA	425	70	2.45	450	420	200		7	4/0.0	2 226 46	4544	2 22/42
PF8# #12	8008150/12	194.10	18536	2200	175	75	TB5050	125	70	245	150	130	380	60	7	168.8	2.33646	154.1	2.22610
PF8BB16	8008150/16	258.80	24714																
PF9BB4	8009240/4	85.00	8130																
PF9BB8	8009240/8	170.00	16255	1700	260	75	NI / A	NI / A	NI / A	255	220		400	(0	7	422.0	0.40000	NI / A	NI / A
PF9BB12	8009240/12	255.00	24385	1700	260	75	N/A	N/A	N/A	300	220	-	490	60	7	423.0	9.19000	N/A	N/A
PF9BB16	8009240/16	340.00	32500																

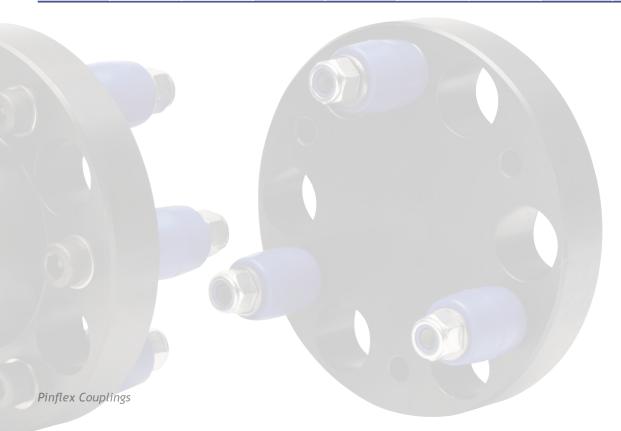
NOTE: Maximum power and torques for taper bore options are limited by the taper bush capacity. * Values are for couplings with no bore and a full set of pin assemblies.

Pinflex

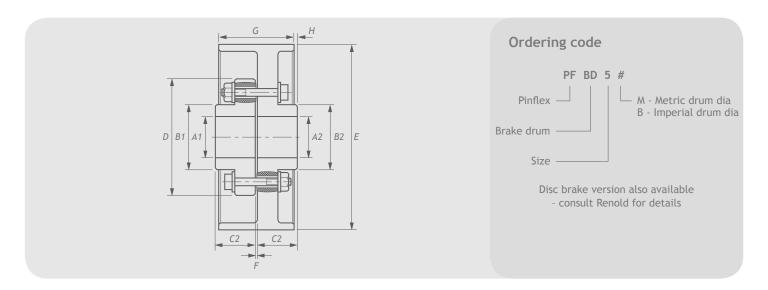


Component Spares

Coupling	Half body p	oilot bored	Half boo	ly F type	Half boo	ly H type	Pin and b	ouffer set	Coupling
size	Catalogue number	Product number	Catalogue number	Product number	Catalogue number	Product number	Product number	Number per set	Size
PF1	PF1 B	8001042	PF1 F	8001042/77	PF1 H	8001042/88	800 0008	3	PF1
PF2	PF2 B	8002050	PF2 F	8002050/77	PF2 H	8002050/88	800 0010	3	PF2
PF3	PF3 B	8003060	PF3 F	8003060/77	PF3 H	8003060/88	800 0010	3	PF3
PF4	PF4 B	8004075	PF4 F	8004075/77	PF4 H	8004075/88	800 0012	1	PF4
PF5	PF5 B	8005090	PF5 F	8005090/77	PF5 H	8005090/88	800 0012	1	PF5
PF6	PF6 B	8006110	PF6 F	8006110/77	PF6 H	8006110/88	800 0016	1	PF6
PF7	PF7 B	8007130	PF7 F	8007130/77	PF7 H	8007130/88	800 0016	1	PF7
PF8	PF8 B	8008150	PF8 F	8008150/77	PF8 H	8008150/88	800 0020	1	PF8
PF9	PF9 B	8009240	N/A	N/A	N/A	N/A	800 0020	1	PF9



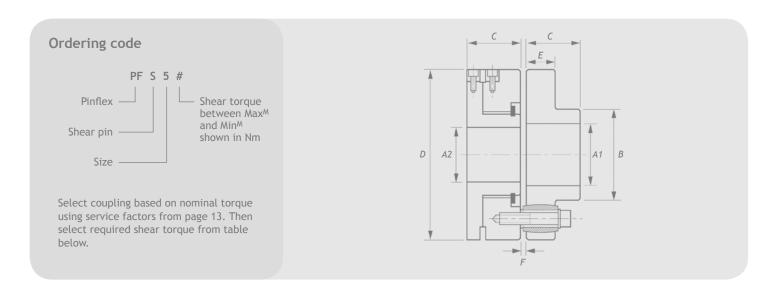
Pinflex Brakedrum Coupling



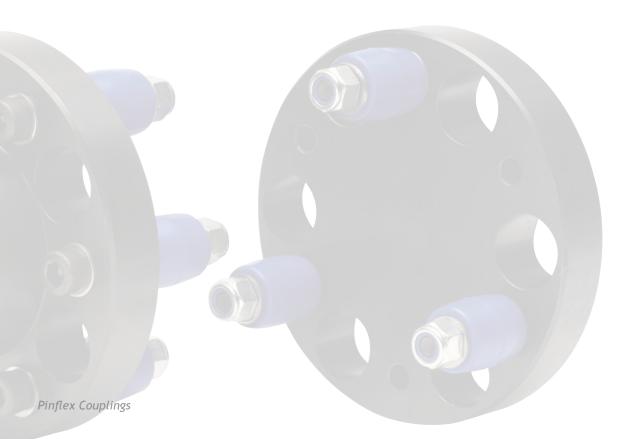
Coupling	oling Product Powe	Power	Torque	Speed	Вс	ore	D	rum dimensior	าร
size	number	/100rpm kW	nominal max Nm rpm		A1 max mm	A2 max mm	Dia E mm	Width G mm	Dia E inch
PFBD1 #	8101042	8.1	774	3600	50	45	160	92	6
PFBD2 #	8102050	14.35	1370	2850	55	50	200	105	8
PFBD3 #	8103060	16.96	1620	2300	72	60	250	124	10
PFBD4 #	8104075	33.29	3179	1900	80	75	315	140	12
PFBD5 #	8105090	55.76	5325	1400	110	90	400	184	16
PFBD6 #	8106110	98.8	9435	1400	130	110	400	184	16
PFBD7 #	8107130	148.7	14200	1100	150	130	500	241	20
PFBD8 #	8108150	258.8	24714	900	175	150	630	267	24

Coupling	Product				D	imensior	าร				Number	Pin & bu	ıffer set
size	number	B1 mm	B2 mm	C1 mm	C2 mm	D mm	F mm	H mm	WR³ kg m²	Mass kg	of pins per coupling	Part number	Number per set
PFBD1 #	8201042	70	70	44	44	125	4	-	0.0277	8.7	12	8000008	3
PFBD2 #	8202050	80	80	50	50	145	5	-	0.0696	14.3	12	8000010	3
PFBD3 #	8203060	100	100	60	60	165	5	-	0.1801	24.2	12	8000010	3
PFBD4 #	8204075	113	113	75	75	195	6	-	0.5487	49.0	12	8000012	1
PFBD5 #	8205090	150	150	90	90	235	6	-	1.6548	82.2	16	8000012	1
PFBD6 #	8206110	180	180	110	110	290	7	22	2.0706	114.1	12	8000016	1
PFBD7 #	8207130	210	210	130	130	320	7	13	5.2192	199.7	16	8000016	1
PFBD8 #	8208150	245	245	150	150	380	7	20	13.566	303.4	16	8000020	1

Pinflex Shearpin Coupling



Coupling	Nominal	Shear	torque	Speed	Bor	e A1	Bore	e A2			Dime	nsions			No. of
size	torque	Min Nm	Max Nm	max rpm	Max mm	Min mm	Max mm	Min mm	B mm	C kg	D mm	E mm	F mm	Mass kg	pins
PFS1 #	387	194	774	6800	50		40	-	70	44	125	20	4	6.3	6
PFS2 #	685	220	1370	5900	55	-	47	-	80	50	145	25	5	10.1	6
PFS3 #	810	350	1620	5200	72	-	57	-	100	60	165	25	5	15.3	6
PFS4 #	1590	425	3180	4400	80	-	63	-	113	75	195	35	6	27.3	6
PFS5 #	2662	520	5324	3600	110	-	93	-	150	89	235	35	6	47.3	8
PFS6 #	4717	1100	9434	2900	130	55	107	55	180	110	290	50	7	89.8	6
PFS7 #	7100	2750	14200	2600	150	65	120	65	210	130	320	50	7	129	8
PFS8 #	12357	5900	24714	2200	175	75	147	75	245	150	380	60	7	212	8
PFS9 #	16255	8130	32510	1700	260	75	200	75	355	220	490	60	7	513	8



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