## Pinflex Couplings



RENOLD
Superior Coupling Technology

## R BNOTH

## 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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## 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

Axial 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 $=\mathrm{K}$.
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 $=f D$.
4. From Table 3 select factor for the required frequency of starts $/ \mathrm{hr}=\mathrm{fS}$.
5. Selection Power $\mathrm{Ks}=\mathrm{K} \times \mathrm{fD} \times \mathrm{fS}$
6. Equivalent power at $100 \mathrm{RPM}=\frac{\mathrm{Ks} \times 100}{\mathrm{RPM}}$
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

| Table 1 |  | Dry dock cranes |  | Planer feed chains | M |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Agitators |  | Main hoist | (2) | Planer floor chains | M |
|  |  | Auxiliary hoist | (2) | Planer tilting hoist | M |
| Pure liquids | S | Boom, luffing | (2) | Re-saw merry-go-round conveyor | M |
| Liquids and solids | M | Rotating, swing or slew | (3) | Roll cases | H |
| Liquids - variable density | M | Tracking, drive wheels | (4) | Slab conveyor | H |
| Blowers |  | Elevators |  | Small waste conveyor-belt | S |
| Centrifugal | S | Bucket - uniform load | S | Small waste conveyor-chain | M |
| Lobe | M | Bucket - heavy load | M | Sorting table | M |
| Vane | S | Bucket - continuous | S | Tipple hoist conveyor | M |
| Brewing and distilling |  | Centrifugal discharge | S | Tipple hoist drive | M |
| Bottling machinery | S | Escalators | S | Transfer conveyors | M |
| Brew kettles - continuous duty | S | Freight | M | Transfer rolls | M |
| Cookers - continuous duty | S | Gravity discharge | S | Tray drive | M |
| Mash tubs - continuous duty | S | Man lifts | * | Trimmer feed | M |
| Can filling machines |  | Passenger | * | Waste conveyor | M |
|  |  | Extruders (plastic) |  | Machine tools |  |
| Cane knives (1) | M | Film | S | Bending roll | M |
| Car dumpers | H | Sheet | S | Punch press - gear driven | H |
| Car pullers | M | Coating | S | Notching press - belt drive Plate planners | H |
| Clarifiers | S | Tubing | S | Tapping machine | H |
| Classifiers | M | Blow moulders | M | Other machine tools |  |
| Clay working machinery |  | Pre-plasticiers | M | Main drives | M |
| Brick press | H | Fans |  | Auxiliary drives | S |
| Briquette machine | H | Centrifugal | S | Metal mills |  |
| Clay working machinery | M | Cooling towers |  | Drawn bench carriage and |  |
| Pug mill | M | Induced draft | * |  | M |
| Compressors |  | Forced draft | * | Pinch, dryer and scrubber |  |
| Centrifugal | S | Induced draft | M | rolls, reversing |  |
| Lobe | M | Large, mine etc. | M | Slitters | M |
| Reciprocating - multi-cylinder | M | Large, industrial | M | Table conveyors nonreversing |  |
| Reciprocating - single cylinder | H | Light, small diameter | S | group drives | M |
| Conveyors - uniformly loaded or fed |  | Feeders |  | Individual drives | H |
| Apron | S | Apron | M | Reversing |  |
| Assembly | S | Belt | M | Wire drawing and flattening machine | M |
| Belt | S | Disc | S | Wire winding machine | M |
| Bucket | S | Reciprocating | H | Mills, rotary type |  |
| Chain | S | Screw | M | Ball (1) | M |
| Flight | S | Food industry |  | Cement kilns (1) | M |
| Oven | S | Beef slicer | M | Dryers and coolers (1) | M |
| Screw | S | Cereal cooker | S | Kilns other than cement | M |
| Conveyors - heavy duty not uniformly fed |  | Dough mixer | M | Pebble (1) | M |
|  |  | Meat grinder | M | Rod, plain \& wedge bar (1) | M |
| Apron | M | Generators - not welding | S | Tumbling barrels | H |
| Assembly | M | Hammer mills | H | Mixers |  |
| Belt | M | Hoists |  | Concrete mixers continuous | M |
| Bucket | M |  |  | Concrete mixers intermittent | M |
| Chain | M | Heavy duty | H M | Constant density | S |
| Flight | M | Medium duty | M | Variable density | M |
| Live roll | * | Skip hoist | M | Oil industry |  |
| Oven | M | Laundry |  | Chillers | M |
| Reciprocating | H | Washers - reversing | M | Oil well pumping | * |
| Screw | M | Tumblers | M | Paraffin filter press | M |
| Shaker | H | Line shafts |  | Rotary kilns | M |
| Crane Drives - not dry dock |  | Driving processing equipment | M | Paper mills |  |
| Main hoists | S | Light | S | Agitators (mixers) | M |
| Bridge travel | * | Other line shafts | S | Barker - auxiliaries hydraulic | M |
| Trolley travel | * | Lumber industry |  | Barker - mechanical | H |
| Crushers |  | Barkers, hydraulic, mechanical | M | Barking drum | H |
| Ore | H | Burner conveyor | M | Beater and pulper | M |
| Stone | H | Chain saw and drag saw | H | Bleacher | S |
| Sugar (1) | M | Chain transfer | H | Calenders | M |
| Dredges |  | Craneway transfer | H | Calenders - super | H |
| Cable reels | M | De-barking drumEdger feed | H | Converting machine except |  |
| Conveyors M |  |  | M | cutters, platers | M |
| Cutter head drives | H | Gang feed | M | Conveyors | S |
| Jig drives ${ }^{\text {a }}$ |  | Green chain | M | Couch | M |
| Manoeuvring winches M |  | Live rolls | H H | Cutters, platers | H |
| Pumps M |  | Log deck | H H | Cylinders | M |
| Screen drive H |  | Log haul - incline | H | Dryers | M |
| $\begin{array}{ll}\text { Stackers } & \text { M } \\ \text { Utility winches } & M\end{array}$ |  | Log haul - well type | H | Fell stretcher | M |
|  |  | Log turning device | H | Fell whipper | H |
| Utility winches M |  | Main log conveyor | H | Jordans | M |
|  |  | Off bearing rolls | M | Log haul | H |


| Presses | M |
| :---: | :---: |
| Pulp machine reel | M |
| Stock chest | M |
| Suction roll | M |
| Washers and thickeners | M |
| Winders | M |
| Printing presses |  |
| Pullers |  |
| Barge haul | H |
| Pumps |  |
| Centrifugal | S |
| Proportioning | M |
| Reciprocating |  |
| single acting: 3 or more cylinders | M |
| double acting: 2 or more cylinders | M |
| single acting: 1 or 2 cylinders |  |
| double acting: single cylinder | * |
| Rotary - gear type | S |
| Rotary - lobe, vane | S |
| Rubber and plastics industries |  |
| Crackers (1) | H |
| Laboratory equipment | M |
| Mixed mills (1) | H |
| Refiners (1) | M |
| Rubber calenders (1) | M |
| Rubber mill, 2 on line (1) | M |
| Rubber mill, 3 on line (1) | S |
| Sheeter (1) | M |
| Tyre building machines | * |
| Tyre and tube press openers |  |
| Tubers and strainers (1) | M |
| Warming mills (1) | M |
| Sand muller | M |
| Screens |  |
| Air washing | S |
| Rotary, stone or gravel | M |
| Travelling water intake | S |
| Sewage disposal equipment |  |
| Bar screens | S |
| Chemical feeders | S |
| Collectors | S |
| Dewatering screws | M |
| Scum breakers | M |
| Slow or rapid mixers | M |
| Thickeners | M |
| Vacuum filters | M |
| Slab pushers | M |
| Steering gear |  |
| Stokers | S |
| Sugar industry |  |
| Cane knives (1) | M |
| Crushers (1) | M |
| Mills (1) | M |
| Textile industry |  |
| Batchers | M |
| Calenders | M |
| Cards | M |
| Dry cans | M |
| Dryers | M |
| Dyeing machinery | M |
| Looms | M |
| Mangles | M |
| Nappers | M |
| Pads | M |
| Range drives | * |
| Slashers | M |
| Soapers | M |
| Spinners | M |
| Tenter frames | M |
| Washers | M |
| Winders | M |
| Windlass | * |

Key
S = Steady
M = Medium Impulsive
H = Highly Impulsive

* = Refer to Renold
(1) $=$ Select on 24 hours per day service factor only.
(2) $=$ Use service factor of 1.00 for any duration of service.
(3) = Use service factor of 1.25 for any duration of service.
(4) $=$ Use service factor of 1.50 for any duration of service.

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 (fD)

| Prime mover (Drive input) | Driven machinery characteristics |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 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 | $\begin{aligned} & 0.90 \\ & 1.00 \\ & 1.25 \end{aligned}$ | $\begin{aligned} & 1.00 \\ & 1.25 \\ & 1.50 \end{aligned}$ | $\begin{aligned} & 1.50 \\ & 1.75 \\ & 2.00 \end{aligned}$ |
| Multi-cylinder I.C. engine (Medium impulsive input) | Intermittent - 3hrs/day max 3-10 over 10 | $\begin{aligned} & 1.00 \\ & 1.25 \\ & 1.50 \end{aligned}$ | $\begin{aligned} & 1.25 \\ & 1.50 \\ & 1.75 \end{aligned}$ | $\begin{aligned} & 1.75 \\ & 2.00 \\ & 2.25 \end{aligned}$ |
| Single-cylinder I.C. engine (Highly impulsive input) | Intermittent - 3hrs/day max 3-10 over 10 | $\begin{aligned} & 1.25 \\ & 1.50 \\ & 1.75 \end{aligned}$ | $\begin{aligned} & 1.50 \\ & 1.75 \\ & 2.00 \end{aligned}$ | $\begin{aligned} & 2.00 \\ & 2.25 \\ & 2.50 \end{aligned}$ |

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 7.5 kW 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 $/ 55 \mathrm{~mm}$ respectively.
$\mathrm{K}=7.5 \mathrm{~kW}$
From Table 1 Load Classification $=M$ (medium impulsive)
From Table 2 Service Factor $f D=1.5$
From Table 3 fs = 1.2
Therefore selection kW is:-
$K s=K \times f D \times f S$
$=7.5 \times 1.5 \times 1.2$
$=13.5 \mathrm{~kW}$
Equivalent power at 100 RPM $=$

$$
\begin{aligned}
& =\frac{K s \times 100}{R P M} \\
& =\frac{13.5 \times 100}{1440}
\end{aligned}
$$

$$
=0.9375 \mathrm{~kW} @ 100 \mathrm{RPM}
$$

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

## Key Stress

1. Permissible key stress $=70 \mathrm{~N} / \mathrm{mm}^{2}$
2. Nominal torque $\mathrm{T}_{\text {км }}=\mathrm{K} \times 9550$ / RPM Nm
3. Force at key $\mathrm{F}=\mathrm{T}_{\text {km }} / \mathrm{r}$
4. Shaft Rad r. metres
5. Key area $A=J \times$ HUB length $m m$ (Obtain from relevant catalogue page).
6. Key stress $\mathrm{fk}=\mathrm{F} / \mathrm{A} \mathrm{N} / \mathrm{mm}^{2}$
7. If resultant stress is less than $70 \mathrm{~N} / \mathrm{mm}^{2}$ key stress is acceptable.
If resultant fk is greater than 70, consider either two keyways or extending hub length.
8. Example:
$T_{\text {KM }}=7.5 \times 9550 / 1440=49.7 \mathrm{Nm}$
$r=55 / 2=27.5 \mathrm{~mm} \div 1000=0.0275 \mathrm{~m}$
$\mathrm{F}=49.7 / 0.0275=1741 \mathrm{~N}$
$A=16 \times 45=720 \mathrm{~mm}^{2}$
$\mathrm{fk}=1741 / 720=2.4 \mathrm{M} / \mathrm{mm}^{2}$
Selection is therefore good.

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

WARNING

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

| Shaft dia. |  | Key \& keyway |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 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

| Shaft dia. |  | Key \& keyway |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 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 | 0.090 |
| 1.25 | 1.50 | 0.375 | 0.250 | 0.085 |
| 1.50 | 1.75 | 0.437 | 0.312 | 0.112 |
| 1.75 | 2.00 | 0.500 | 0.312 | 0.108 |
| 2.00 | 2.50 | 0.625 | 0.437 | 0.162 |
| 2.50 | 3.00 | 0.750 | 0.500 | 0.185 |
| 3.00 | 3.50 | 0.875 | 0.625 | 0.245 |
| 3.50 | 4.00 | 1.000 | 0.750 | 0.293 |
| 4.00 | 5.00 | 1.250 | 0.875 | 0.340 |
| 5.00 | 6.00 | 1.500 | 1.000 | 0.384 |

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: 32500 Nm


## 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: Temp Range $-40^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$
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.


| Catalogue number | Product number | $\begin{array}{\|c} \text { Power/ } \\ 100 \mathrm{rpm} \\ \mathrm{~kW} \end{array}$ | Torque nomina Nm | Speed max rpm | $\begin{array}{\|c} \hline \text { Type B B } \\ \hline \text { Bore } \end{array}$ |  | Type F \& H |  |  | Dimensions |  |  |  |  |  | Type B |  | Type F \& H |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Bush |  | re | B | C1 | C2 | D | E | F | Mass* | WR ${ }^{2 *}$ | Mass* | WR ${ }^{2 *}$ |
|  |  |  |  |  | Max | Min |  | Max | Min | mm | mm | mm | mm | mm | mm | kg | kg m² | kg | kg m² |
| PF1\# \#3 | 8001042/3 | 2.03 | 194 | 6800 | 50 | 0 | TB1215 | 32 | 11 | 70 | 44 | 40 | 125 | 20 | 4 | 5.2 | 0.00828 | 5.0 | 0.00813 |
| PF1\# \#6 | 8001042/6 | 4.05 | 387 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF1BB9 | 8001042/9 | 6.08 | 581 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF1BB12 | 8001042/12 | 8.1 | 774 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF2\# \#3 | 8002050/3 | 3.59 | 343 | 5900 | 55 | 0 | TB1615 | 42 | 14 | 80 | 50 | 40 | 145 | 25 | 5 | 8.3 | 0.01843 | 7.6 | 0.01780 |
| PF2\# \#6 | 8002050/6 | 7.18 | 685 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF2BB9 | 8002050/9 | 10.76 | 1028 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF2BB12 | 8002050/12 | 14.35 | 1370 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF3\# \#3 | 8003060/3 | 4.24 | 405 | 5200 | 72 | 0 | TB2017 | 50 | 18 | 100 | 60 | 47 | 165 | 25 | 5 | 13.8 | 0.03335 | 12.1 | 0.03143 |
| PF3\# \#6 | 8003060/6 | 8.48 | 810 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF3BB9 | 8003060/9 | 12.71 | 1214 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF3BB12 | 8003060/12 | 16.96 | 1620 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF4\# \#3 | 8004075/3 | 8.32 | 795 | 4400 | 80 | 0 | TB2525 | 60 | 19 | 113 | 75 | 65 | 195 | 35 | 6 | 22.0 | 0.08470 | 20.3 | 0.08195 |
| PF4\# \#6 | 8004075/6 | 16.65 | 1590 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF4BB9 | 8004075/9 | 24.97 | 2384 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF4BB12 | 8004075/12 | 33.29 | 3179 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF5\# \#4 | 8005090/4 | 13.94 | 1331 | 3600 | 110 | 0 | TB3030 | 75 | 35 | 150 | 89 | 80 | 235 | 35 | 6 | 37.8 | 0.19972 | 35.3 | 0.19274 |
| PF5\# \#8 | 8005090/8 | 27.88 | 2662 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF5\# \#12 | 8005090/12 | 41.82 | 3994 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF5BB16 | 8005090/16 | 55.76 | 5325 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF6\# \#3 | 8006110/3 | 24.70 | 2359 | 2900 | 130 | 55 | TB3535 | 90 | 35 | 180 | 110 | 91 | 290 | 50 |  | 73.2 | 0.61140 | 65.2 | 0.58086 |
| PF6\# \#6 | 8006110/6 | 49.40 | 4717 |  |  |  |  |  |  |  |  |  |  |  | 7 |  |  |  |  |
| PF6\# \#9 | 8006110/9 | 74.10 | 7076 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF6BB12 | 8006110/12 | 98.80 | 9435 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF7\# \#4 | 8007130/4 | 37.18 | 3550 | 2600 | 150 | 65 | TB4040 | 100 | 40 | 210 | 130 | 105 | 320 | 50 | 7 | 103.0 | 0.99756 | 88.5 | 0.92310 |
| PF7\# \#8 | 8007130/8 | 74.35 | 7100 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF7\# \#12 | 8007130/12 | 111.53 | 10650 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF7BB16 | 8007130/16 | 148.70 | 14200 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF8\# \#4 | 8008150/4 | 64.70 | 6179 | 2200 | 175 | 75 | TB5050 | 125 | 70 | 245 | 150 | 130 | 380 |  | 7 | 168.8 | 2.33646 | 154.1 | 2.22610 |
| PF8\# \#8 | 8008150/8 | 129.40 | 12357 |  |  |  |  |  |  |  |  |  |  | 60 |  |  |  |  |  |
| PF8\# \#12 | 8008150/12 | 194.10 | 18536 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF8BB16 | 8008150/16 | 258.80 | 24714 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF9BB4 | 8009240/4 | 85.00 | 8130 | 1700 | 260 | 75 | N/A | N/A | N/A | 355 | 220 | - | 490 | 60 | 7 | 423.0 | 9.19000 | N/A | N/A |
| PF9BB8 | 8009240/8 | 170.00 | 16255 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF9BB12 | 8009240/12 | 255.00 | 24385 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PF9BB16 | 8009240/16 | 340.00 | 32500 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Pinflex



## Component Spares

| Coupling size | Half body pilot bored |  | Half body F type |  | Half body H type |  | Pin and buffer set |  | Coupling <br> Size |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Catalogue number | Product number | Catalogue number | Product number | Catalogue number | Product number | Product number | Number per set |  |
| PF1 | PF1 B | 8001042 | PF1 F | 8001042/77 | PF1 H | 8001042/88 | 8000008 | 3 | PF1 |
| PF2 | PF2 B | 8002050 | PF2 F | 8002050/77 | PF2 H | 8002050/88 | 8000010 | 3 | PF2 |
| PF3 | PF3 B | 8003060 | PF3 F | 8003060/77 | PF3 H | 8003060/88 | 8000010 | 3 | PF3 |
| PF4 | PF4 B | 8004075 | PF4 F | 8004075/77 | PF4 H | 8004075/88 | 8000012 | 1 | PF4 |
| PF5 | PF5 B | 8005090 | PF5 F | 8005090/77 | PF5 H | 8005090/88 | 8000012 | 1 | PF5 |
| PF6 | PF6 B | 8006110 | PF6 F | 8006110/77 | PF6 H | 8006110/88 | 8000016 | 1 | PF6 |
| PF7 | PF7 B | 8007130 | PF7 F | 8007130/77 | PF7 H | 8007130/88 | 8000016 | 1 | PF7 |
| PF8 | PF8 B | 8008150 | PF8 F | 8008150/77 | PF8 H | 8008150/88 | 8000020 | 1 | PF8 |
| PF9 | PF9 B | 8009240 | N/A | N/A | N/A | N/A | 8000020 | 1 | PF9 |

## Pinflex Brakedrum Coupling



| Coupling size | Product number | Power /100rpm kW | Torque nominal Nm | Speed <br> $\max$ <br> rpm | Bore |  | Drum dimensions |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | $\begin{gathered} \text { A1 max } \\ \text { mm } \end{gathered}$ | $\begin{gathered} \text { A2 } \max \\ \text { mm } \end{gathered}$ | Dia E mm | $\begin{gathered} \text { Width G } \\ \mathrm{mm} \end{gathered}$ | 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 size | Product number | Dimensions |  |  |  |  |  |  |  |  | Number of pins per coupling | Pin \& buffer set |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \mathrm{B} 1 \\ & \mathrm{~mm} \end{aligned}$ | $\begin{gathered} \mathrm{B} 2 \\ \mathrm{~mm} \end{gathered}$ | $\begin{aligned} & \mathrm{C} 1 \\ & \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & \mathrm{C} 2 \\ & \mathrm{~mm} \end{aligned}$ | $\begin{gathered} \mathrm{D} \\ \mathrm{~mm} \end{gathered}$ | $\begin{gathered} \mathrm{F} \\ \mathrm{~mm} \end{gathered}$ | $\begin{gathered} \mathrm{H} \\ \mathrm{~mm} \end{gathered}$ | $\begin{gathered} W^{3} \\ \mathrm{~kg} \mathrm{~m} \end{gathered}$ | Mass kg |  | Part number | Number per set |
| PFBD1 \# | 8201042 | 70 | 70 | 44 | 44 | 125 | 4 | - | 0.0277 | 8.7 | 12 | PFA | 3 |
| PFBD2 \# | 8202050 | 80 | 80 | 50 | 50 | 145 | 5 | - | 0.0696 | 14.3 | 12 | PFB | 3 |
| PFBD3 \# | 8203060 | 100 | 100 | 60 | 60 | 165 | 5 | - | 0.1801 | 24.2 | 12 | PFB | 3 |
| PFBD4 \# | 8204075 | 113 | 113 | 75 | 75 | 195 | 6 | - | 0.5487 | 49.0 | 12 | PFC | 1 |
| PFBD5 \# | 8205090 | 150 | 150 | 90 | 90 | 235 | 6 | - | 1.6548 | 82.2 | 16 | PFC | 1 |
| PFBD6 \# | 8206110 | 180 | 180 | 110 | 110 | 290 | 7 | 22 | 2.0706 | 114.1 | 12 | PFD | 1 |
| PFBD7 \# | 8207130 | 210 | 210 | 130 | 130 | 320 | 7 | 13 | 5.2192 | 199.7 | 16 | PFD | 1 |
| PFBD8 \# | 8208150 | 245 | 245 | 150 | 150 | 380 | 7 | 20 | 13.566 | 303.4 | 16 | PFE | 1 |

## Pinflex Shearpin Coupling



| Coupling size | Nominal torque | Shear torque |  | Speed max rpm | Bore A1 |  | Bore A2 |  | Dimensions |  |  |  |  |  | No. of pins |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Min <br> Nm | Max <br> Nm |  | Max <br> mm | Min mm | Max <br> mm | Min <br> mm | $\begin{gathered} \mathrm{B} \\ \mathrm{~mm} \end{gathered}$ | $\begin{aligned} & \mathrm{C} \\ & \mathrm{~kg} \end{aligned}$ | $\begin{gathered} \mathrm{D} \\ \mathrm{~mm} \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ \mathrm{~mm} \end{gathered}$ | $\begin{gathered} \mathrm{F} \\ \mathrm{~mm} \end{gathered}$ | $\begin{gathered} \text { Mass } \\ \mathrm{kg} \end{gathered}$ |  |
| 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 |

