



## Chainflex Coupling

[Brochure](#)

**RENOLD** | Couplings

# Contents

Renold Couplings	3
Chainflex	4
Keyway dimensions	5
Chainflex technical information	6
Global services	7



## Innovation Everyday

Renold have been driving industry forward through innovation since 1879. Renold Couplings drives industry the world over, from marine, cranes and hoists to manufacture, mass transportation and the pulp and paper industry. Our couplings connect machines to machines through stock solutions and bespoke-crafted connections, all manufactured in our high-tech engineering factories.

### Engineering capability

A team of in-house design engineers work to continuously improve the existing product range, introduce new products and deliver innovative new solutions to our customers challenges.

### British manufacturer

Since 1946 Renold Couplings have manufactured a full range of couplings and clutches.

Based in Cardiff, UK, we control the full design and manufacture process, bringing class leading quality and complete customer peace of mind.

### Worldwide support

With manufacturing facilities in 4 continents and support offices in over 30 countries Renold Couplings can offer service that understands the requirements and challenges of your particular market.

### Availability

Renold Couplings holds significant stock of standard items and component parts both in our UK facility and with our partners around the world.

Controlling the full manufacturing process, Renold Couplings can deliver responsive lead times for manufactured parts.



## Chainflex

An all metal flexible yet torsionally stiff coupling, suitable for use in arduous working conditions.

### Coupling capacity

- Maximum power at 100RPM: 90kW
- Maximum torque: 8595Nm

### General details

- Hardened steel sprockets
- Renold duplex chain
- Moulded cover



### Standard range comprises

- Shaft to shaft
- Taper bush or parallel bored

### Applications

- Fans
- Feeders
- Kiln dryers
- Line shafts
- Pump drives

### Features and benefits

- Easy installation for ease of maintenance
- Custom sprockets to maximise misalignment capabilities
- Torsionally stiff for use as a positive drive connection
- Hardened teeth giving long life with high torque capacity
- All metal coupling for use in hostile environments
- Taper bush bores available for ease of maintenance
- Easy removal of chain for high speed disconnection of driven and driving machines
- Precision moulded plastic cover with seals for lubrication

# Keyway dimensions

## Metric (mm)

Keyways comply with BS4235: Part 1: 1972

Shaft dia.		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

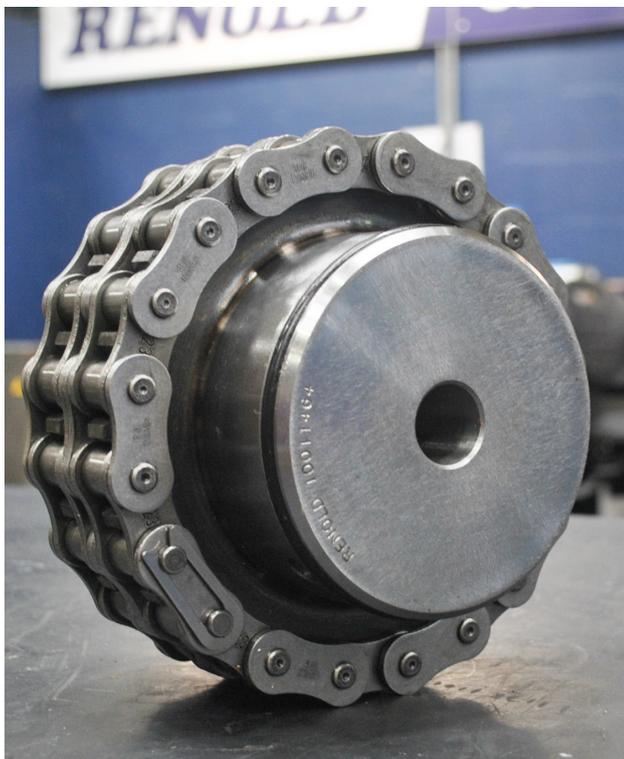
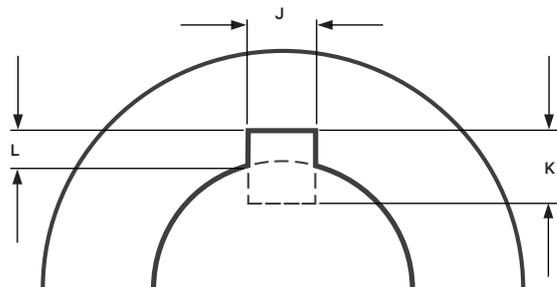
## Imperial (inches)

Keyways comply with BS46: Part 1: 1958

Shaft dia.		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

Parallel keyways are supplied unless customer states otherwise.

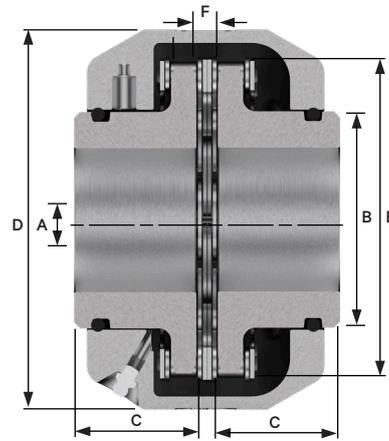
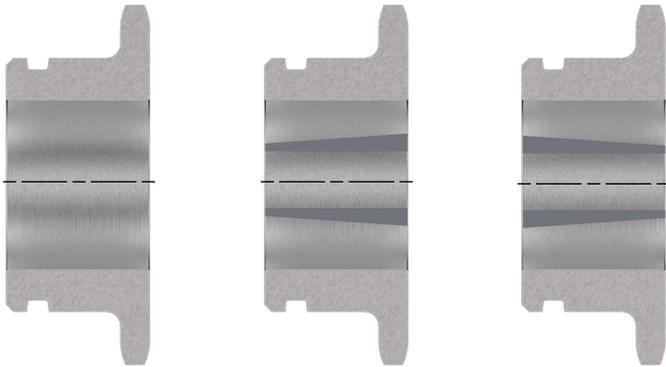


# Chainflex

Type B

Type F

Type H

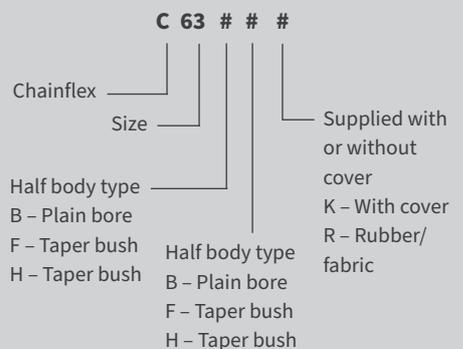


Coupling size with cover	Power 100rpm kW	Torque nominal Nm	Speed max rpm	Type B		Type F & H			Dimensions						Offset Max mm	End float mm
				Bore		Bush size	Bore		B mm	C mm	D mm	E mm	F mm	Mass kg		
				Max	Min		Max	Min								
C28BB K	0.55	52.5	3500	25	12	N/A	-	-	42	21	72	62	3	0.5	0.25	0.7
C33BB K	1	95.5	3000	30	12	N/A	-	-	50	25	83	74	5.1	1.0	0.25	1.0
C43## K	2.25	215	2250	40	14	TB1008	28	9	59	32	108	99	6.9	2.1	0.25	1.3
C63## K	7.5	716	1500	60	19	TB1615	42	14	91	51	159	148	8.9	7.1	0.30	2.0
C81## K	17.5	1671	1200	80	24	TB2525	60	19	117	63	206	197	16.2	16	0.38	2.5
C101BB K	33.5	3200	960	100	32	N/A	-	-	144	76	258	245	18.8	30	0.38	3.3
C122BB K	60	5730	750	130	50	N/A	-	-	182	101	311	295	25.1	61	0.50	3.8
C140BB K	90	8595	700	140	55	N/A	-	-	195	114	357	343	31.2	85	0.50	4.6

## Component Spares

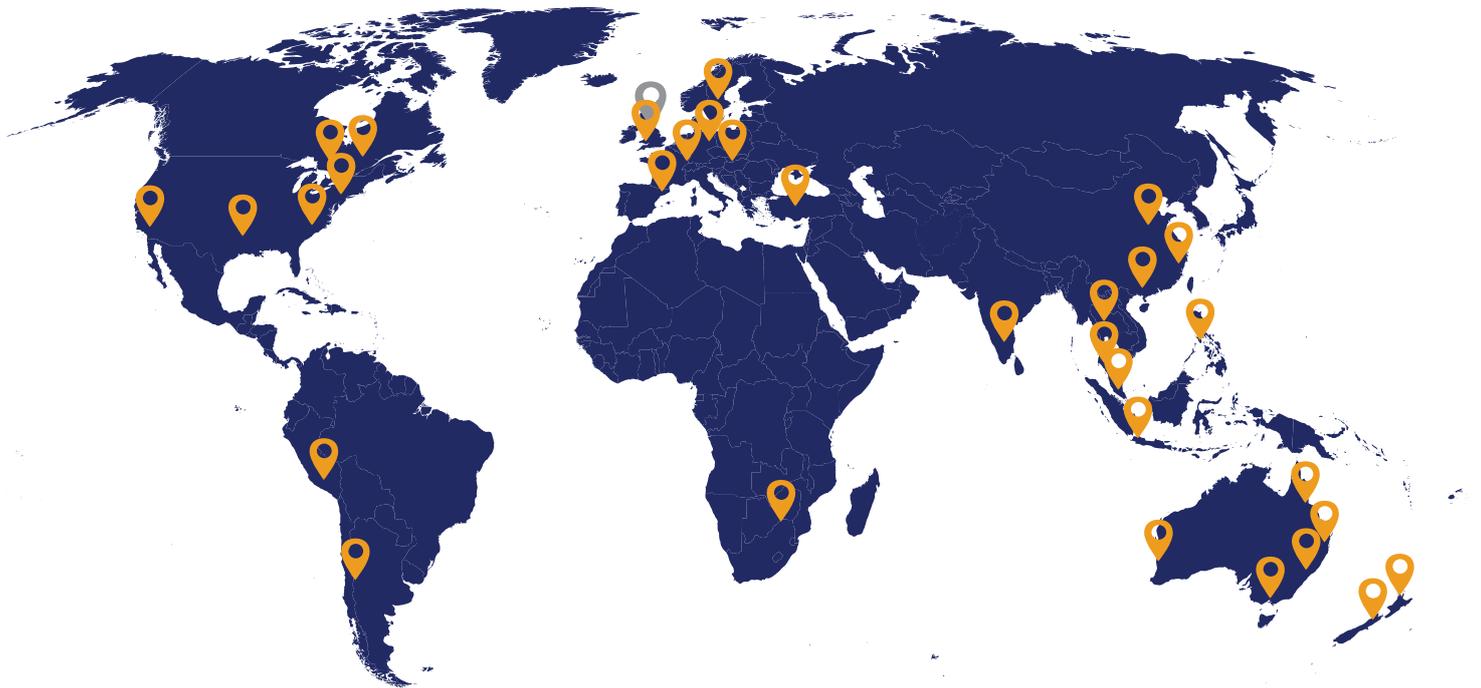
With cover		Without cover		Cover	Half body pilot bored	Half body taper bored F type	Half body taper bored H type	Chain with connectors
Coupling number	Product number	Coupling number	Product number					
C28BBK	642602	C28BB	642802	616602	642080	-	-	114500/96620
C33BBK	642603	C33BB	642803	616603	642081	-	-	114038/96620
C43BBK	642604	C43BB	642804	616604	642082	-	-	114046/96620
C43FFK	642604/77	C43FF	642804/77	616604	-	642082/77	642082/88	114046/96620
C63BBK	642606	C63BB	642806	616606	642084	-	-	114066/96620
C63FFK	642606/77	C63FF	642806/77	616606	-	642084/77	642084/88	114066/96620
C81BBK	642608	C81BB	642808	616608	642086	-	-	114088/96620
C81FFK	642608/77	C281FF	642808/77	616608	-	642086/77	642086/88	114088/96620
C101BBK	642610	C101BB	642810	616610	642088	-	-	114106/96620
C122BBK	642612	C122BB	642812	616612	642090	-	-	114127/96620
C140BBK	642614	C140BB	642814	616614	642092	-	-	114147/96620

## Ordering code



Max angular misalignment 1°

# Global services



 **Head office**    **Renold locations**



### Internal support

Sales team embedded in the manufacturing site with unrivalled product knowledge



### Worldwide Manufacture

Renold can utilise its fully owned factories across the world to ensure quality controlled, cost competitive products



### Manufacturing facility

Designed and manufactured in house by Renold; giving ultimate control on our solutions



### History and Longevity

Manufacturing in the UK for over 100 years and commitment in our facilities for the long term, we are here to stay



### Excellent Communication

From an accessible sales team, weekly order updates and a global sales network we make it easy to communicate



### Large Stock Holding

Renold holds a large stock of Industrial couplings in the UK and with our worldwide distribution network

## Get in touch

For your local Renold  
sales and service location

+44 (0) 29 2079 2737



cardiff.sales@renold.com



www.renold.com



Wentloog Corporate Park  
Newlands Road, Cardiff  
CF3 2EU



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