



FLEXILOCK FLEXIBLE COUPLINGS FOR HYDRAULIC PUMPS & GENERAL USE

A STANDARD OFF THE SHELF SHAFT COUPLING SYSTEM DEVELOPED SPECIALLY FOR HEAVY DUTY FLUID POWER APPLICATIONS



101 Series Complete coupling

127 Series round bore



127 Series CLC

101 Series round bore



101 Series CLB

63 Series round bore



63 Series CLA

FLEXIBLE COUPLINGS & REPLACEMENT ELEMENTS

SPLINED SHAFT CONNECTIONS.

The FLEXILOCK range includes most of the splined shaft connections currently utilized on hydraulic pumps and motors including imperial and metric sizes. All splined coupling hubs feature our popular CLAMPLOCK lateral or axial positive locking mechanisms which secure the coupling hub solidly on to the pump shaft and eliminate the spline wear associated with unlocked spline connections.

ROUND BORE KEYED SHAFT CONNECTIONS.

Most standard bore sizes available in imperial and metric sizes to fit standard hydraulic pumps and motors and IEC electric motor shaft standards. Stock availability of standard sizes enables immediate use of the couplings without having to undertake expensive machining of bores and keyways.

POWER RATINGS MATCHED TO APPLICATION.

The coupling design features a large gear teeth form with wide tooth face contact between the steel gear and the polymer element ensuring maximum power capacity in a small package over a long life cycle. Both splined and keyed hub designs are matched to effectively accommodate shaft sizes without excess weight penalty.

BROAD APPLICATION VERSATILITY.

The steel hub design permits ease of modification to suit special applications. Hub gear plates are available for attachment to customer supplied components. Long or short hub versions can be manufactured to special order. SLC and SLD type hubs can be arranged to incorporate sprockets or pulleys for auxiliary drives.

FLEXILOCK SIZING PROGRAM - Consult your distributor to have your FLEXILOCK kit sized by our computer selection program.

PERFORMANCE SPECIFICATIONS.

SERIES	Continuous Power/Rev*	Continuous Torque	Intermittent Power/Rev*	Intermittent Torque
63 (Code 90)	0.0118 kW 0.0158 hp	113 Nm 83 ft lbs	0.0165 kW 0.0221 hp	157 Nm 116 ft lbs
101 (Code 91)	0.0354 kW 0.0475 hp	339 Nm 250 ft lbs	0.0469 kW 0.0665 hp	475 Nm 350 ft lbs
127 (Code 92)	0.0661 kW 0.0887 hp	632 Nm 466 ft lbs	0.0915 kW 0.1242 hp	884 Nm 652 ft lbs

MAXIMUM MISALIGNMENT TOLERANCES.

Axial Displacement. The element total axial clearance to hubs should be no less than 2 mm or no greater than 4 mm total.

Parallel Offset. Hub parallel offset to each other should not exceed 0.5mm

Angular Misalignment. 1° per hub or total included angle of 2°

SPEED.

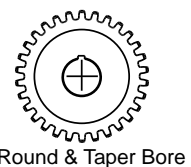
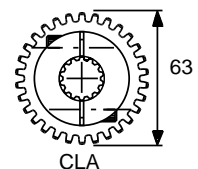
Consult factory for speeds exceeding 3000 RPM.

*Brief peak starting torque not to exceed 200% of continuous Torque. Consult factory for heavy shock loading or stop/ start loading.
Continuous Power Ratings are for fluid power service, 10 hours per day with hubs within max. misalignment tolerance and temp not exceeding 100°C.
Intermittent Power Ratings are for fluid power service up to 4 hours per day with hubs in true alignment and where the temperature does not exceed 80°C.

63 SERIES	CLA					
	No of Teeth	Origin Standard	Nom Spline OD	Specifications of Spline	Pt Number	Weight(kg)
	9	IMP ANSI	0.625"	16/32 INV CL5	90/CLA01	0.5
	11	IMP ANSI	0.750"	16/32 INV CL5	90/CLA02	0.5
	13	IMP ANSI	0.875"	16/32 INV CL5	90/CLA03	0.5
	15	IMP ANSI	1.000"	16/32 INV CL5	90/CLA04	0.5

63 SERIES	RND BORE							
	Bore	Keyway	Hub OD	Pt Number	Bore	Keyway	Hub OD	Pt Number
	0.625"	0.156"	45	90/90012	24mm	8mm	45	90/90074
	19mm	6mm	45	90/90073	1.000"	0.250"	45	90/90015
	0.750"	0.187"	45	90/90013	Din 2 taper	3mm	45	90/90016
	0.875"	0.250"	45	90/90014	Din 3 taper	4mm	45	90/90017

ELEMENT PART NUMBER (White) 63 Series 90/03/05741 No of teeth - 29



FOR SHAFT SIZES SEE HYDRAULIC MOTOR & PUMP STANDARDS-PAGE 4 & 5 & ELECTRIC MOTOR STANDARDS PAGE 5



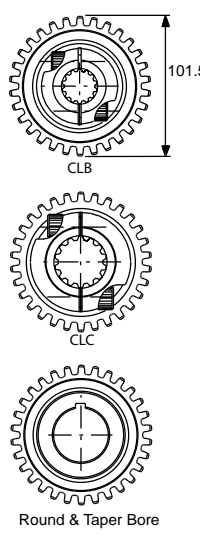
FLEXILOCK FLEXIBLE COUPLINGS FOR HYDRAULIC PUMPS & GENERAL USE

101 SERIES HUBS

No of Teeth	Origin Standard	Nom Spline OD	Specifications of Spline	Pt Number	Weight(kg)
9	IMP ANSI	0.625"	16/32 INV CL5	91/CLB01	1.1
13	IMP ANSI	0.875"	16/32 INV CL5	91/CLB03	1.1
15	IMP ANSI	1.000"	16/32 INV CL5	91/CLB04	1.1
18	DIN 5480	25mm	1.25 Module INV	91/CLB20	1.1
6	IMP	1.375"	6B Straight	91/CLC33	1.1
13	IMP ANSI	1.750"	8/16 INV CL5	91/CLD08	1.3
14	DIN 5480	30mm	2 Module INV	91/CLC10	1.3
14	IMP ANSI	1.250"	12/24 INV CL5	91/CLC06	1.3
21	IMP ANSI	1.375"	16/32 INV CL5	91/CLC07	1.3
16	DIN 5480	35mm	2 Module INV	91/CLC11	1.3
8	DIN 5462	36mm	8T Straight 32x36	91/CLC115	1.3
17	IMP ANSI	1.500"	12/24 INV CL5	91/CLC32	1.3
23	IMP ANSI	1.500"	16/32 INV CL5	91/CLC43	1.3

Bore	Keyway	Hub OD	Pt Number	Bore	Keyway	Hub OD	Pt Number
0.500"	None	63	91/90067	35mm	10mm	63.5	91/90050
19mm	6mm	63	91/90073	38mm	10mm	63.5	91/90051
0.750"	0.187"	63.5	91/90013	1.500"	0.375"	63	91/90060
0.875"	0.250"	63.5	91/90014	40mm	12mm	63.5	91/90052
24mm	8mm	63	91/90074	42mm	12mm	63.5	91/90053
25mm	8mm	63.5	91/90026	1.750"	0.437"	69.5	91/90061
1.000"	0.250"	63	91/90015	48mm	14mm	76.2	91/90055
28mm	8mm	63	91/90075	55mm	16mm	80	91/90057
1.250"	0.312"	63	91/90024	60mm	18mm	90	91/90058
32mm	10mm	63.5	91/90080	Din 3 taper	4mm	63	91/90017

ELEMENT PART NUMBER (Orange) 101 Series **91/03/03691** No of teeth - 30



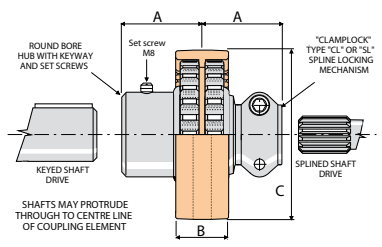
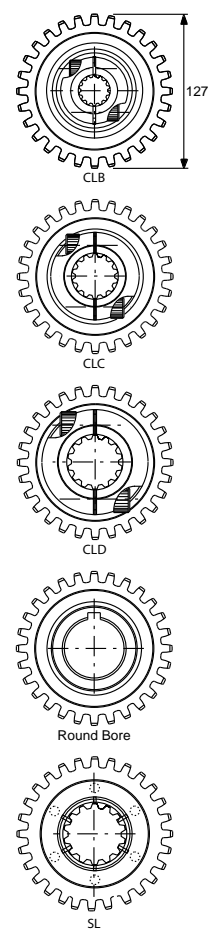
127 SERIES HUBS

No of Teeth	Origin Standard	Nom Spline OD	Specifications of Spline	Pt Number	Weight(kg)
13	IMP ANSI	0.875"	16/32 INV CL5	92/CLB03	1.1
15	IMP ANSI	1.000"	16/32 INV CL5	92/CLB04	1.1
14	IMP ANSI	1.250"	12/24 INV CL5	92/CLC06	1.5
6	IMP	1.375"	6B Straight	92/CLC33	1.5
21	IMP ANSI	1.375"	16/32 INV CL5	92/CLC07	1.5
16	DIN 5480	35mm	2 Module INV	92/CLC11	1.5
17	IMP ANSI	1.500"	12/24 INV CL5	92/CLC32	1.5
23	IMP ANSI	1.500"	16/32 INV CL5	92/CLC43	1.5
14	IMP ANSI	1.500"	10/20 INV CL5	92/CLDA36	1.8
18	DIN 5480	40mm	2 Module INV	92/CLDA41	1.8
13	IMP ANSI	1.750"	8/16 INV CL5	92/CLDA08	1.8
27	IMP ANSI	1.750"	16/32 INV CL5	92/CLDA09	1.8
21	DIN 5480	45mm	2 Module INV	92/CLDA42	1.8

Bore	Keyway	Hub OD	Pt Number	Bore	Keyway	Hub OD	Pt Number
0.500"	None	63	92/90067	45mm	14mm	75	92/90054
0.875"	0.250"	63.5	92/90014	48mm	14mm	75	92/90055
1.000"	0.250"	63	92/90015	50mm	14mm	75	92/90056
1.250"	0.312"	63	92/90024	2.000"	0.500"	80	92/90062
38mm	10mm	63.5	92/90051	55mm	16mm	80	92/90057
1.500"	0.375"	63	92/90060	60mm	18mm	106	92/90058
40mm	12mm	63.5	92/90052	65mm	18mm	90	92/90059
42mm	12mm	63.5	92/90053	Din 3 taper	4mm	63	92/90017
1.750"	0.437"	69.5	92/90061				

No of Teeth	Origin Standard	Nom Spline OD	Specifications of Spline	Pt Number	Weight(kg)
18	DIN 5480	40mm	2 Module INV	92/SLDA41	2.8
21	DIN 5480	45mm	2 Module INV	92/SLDA42	2.8
13	IMP ANSI	1.750"	8/16 INV CL5	92/SLEA08	2.8
27	IMP ANSI	1.750"	16/32 INV CL5	92/SLEA09	2.8
23	DIN 5482	48mm	2 Module INV	92/SLEA44	2.8
24	DIN 5480	50mm	2 Module INV	92/SLEA45	2.8
15	IMP ANSI	2.000"	8/16 INV CL5	92/SLEA37	2.8

ELEMENT PART NUMBER (White) 127 Series **92/03/03244** No of teeth - 28

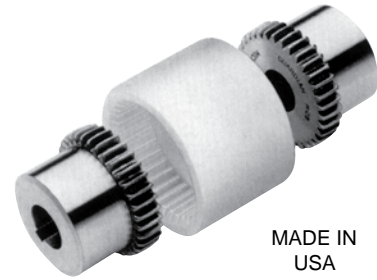
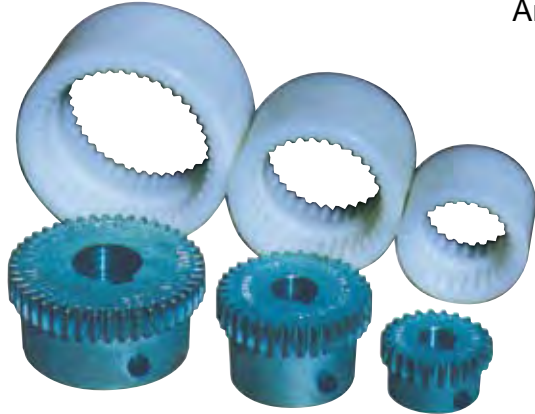


Series	A	B	C
63	37 (1.457")	53 (2.087")	80 (3.149")
101	68 (2.677")	40 (1.575")	116 (4.567")
127	68 (2.677")	40 (1.575")	146 (5.748")

FLEXIBLE COUPLINGS & REPLACEMENT ELEMENTS

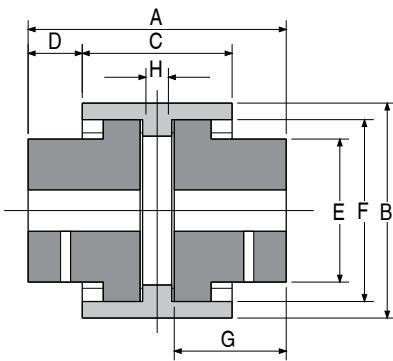
FLEXIBLE MINI SHAFT COUPLINGS

Double Crowned Tooth Gear Type With Nylon Element
And Sintered Steel Hubs.



FLEXIBLE COUPLINGS & REPLACEMENT ELEMENTS

Type	no. of teeth	A	B	C	D	E	F	G	H	Basic Torque Nm*	Basic kW Per 100 RPM*	Min/Max Bore	Weight Kg
M-19	24	50	48.3	37	6.5	32	38.86	21.5	7	15.5	0.1617	10-19	0.27
M-28	34	80	65.6	46	17	44	53.85	35.5	9	44	0.4592	10-28	0.82
M-38	44	80	83.6	49	15.5	58.5	68.58	35.5	9	78.5	0.8194	12-38	1.90



*Power And Torque Factors

Basic Power and Torque value allows for continuous use on mechanical drive equipment with moderate shock loading at full misalignment tolerance. For Hydraulic drive applications with uniform loading up to 8 hours per day with true alignment and temperature not above 82°C, basic Power and Torque values may be increased by 1.75. Maximum starting and breaking torque should not exceed two times basic torque. Intermittent, transient peak loads should not exceed three times the basic torque.

Misalignment Tolerances

Axial Displacement +/- 1mm
Parallel Offset 0.4 mm
Angular Misalignment 1° Per Hub
Axial Displacement (slip) 5 mm

Temperature Range

Continuous 82°C
Intermittent 120°C

Part Number	M19 Series Description	Part Number	M28 Series Description	Part Number	M38 Series Description
GM19/00	Pilot bore	GM28/00	M28 Pilot bore	GM38/00	M38 Pilot bore
GM19/70	11mm x 4mm key	GM28/78	1/2" x 1/8" key	GM38/23	5/8" x 5/32" & 3/16" key
GM19/78	1/2" x 1/8" key	GM28/23	5/8" x 5/32" & 3/16" key	GM38/124	22 mm x 6 mm key
GM19/71	14mm x 5mm key	GM28/13	3/4" x 3/16" key	GM38/14	7/8" x 3/16" key
GM19/23	5/8" x 5/32" & 3/16" key	GM28/14	7/8" x 3/16" key	GM38/74	24 mm x 8 mm key
GM19/13	3/4" x 3/16" key	GM28/73	19mm x 6mm key	GM38/26	25 mm x 8 mm key
GM19/25	18mm x 6mm key	GM28/15	1" x 1/4" key	GM38/15	1" x 1/4" key
GM19/73	19mm x 6mm key	GM28/74	24mm x 8mm key	GM38/24	1 1/4" x 5/16" key
GM19/E	Nylon element	GM28/75	28mm x 8mm key	GM38/30	30mm x 8mm key
		GM28/CLA01	Spline 9T 5/8" 16/32 clamp	GM38/80	32mm x 10mm key
		GM28/CLA03	Spline 13T 7/8" 16/32 clamp	GM38/51	38mm x 10mm key
		GM28/E	Nylon element	GM38/75	28mm x 8mm key
				GM38/CLA01	Spline 9T 5/8" 16/32 clamp
				GM38/CLA02	Spline 11T 3/4" 16/32 clamp
				GM38/CLA03	Spline 13T 7/8" 16/32 clamp
				GM38/CLA04	Spline 15T 1" 16/32 clamp
				GM38/E	Nylon element

Other sizes are available contact our sales office

For larger size couplings refer Flexilock series on page 12.