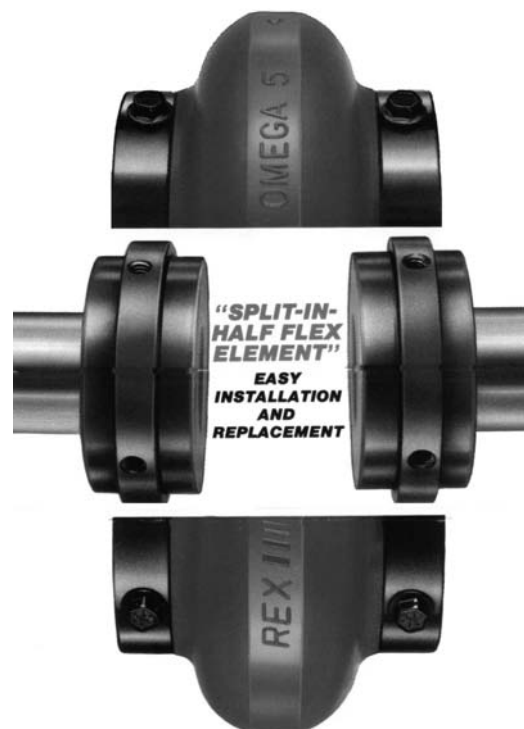




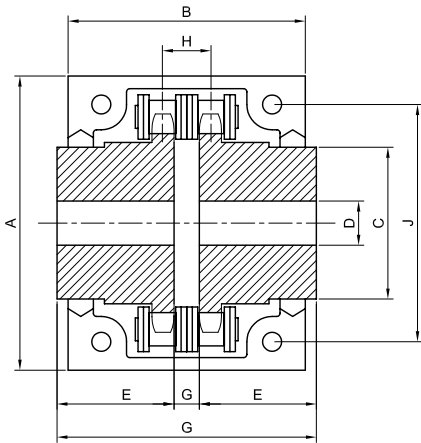
# OMEGA Coupling



## Features

- » Split in half flex element design
  - Easy replacement without moving the hubs or connected equipment
  - No need for coupling disassembly to inspect
- » Polyurethane flex element
  - Torsionally soft
  - High misalignment capabilities
- » Protects equipment by cushioning shock loads and torsional vibration
- » Low reactionary forces - accommodates unavoidable misalignment
- » No lubrication required
- » Excellent chemical resistance
- » Interchangeable hubs
- » Standard & spacer coupling hubs identical

# Chain Couplings



Coupling Size	Chain Pitch [mm]	Pilot Bore D [mm]	Bore Ø		Dimensions								Weight	
			Min [mm]	Max [mm]	A [mm]	B	C	E	F	G	H	J	Coupling [kg]	Casting [kg]
04014	12.7	12	14	28	84	75	45	36	7.4	79.5	14.4	69	1.12	0.31
04016	12.7	13.5	16	32	92	72	51.5	40	7.4	87.4	14.4	77	1.50	0.35
05014	15.875	14.5	17	35	101	85	56	45	9.7	99.7	18.1	86	2.15	0.47
05016	15.875	14.5	18	40	110	87	64	45	9.7	99.7	18.1	96	2.75	0.5
05018	15.875	16	18	45	122	85	73.5	45	9.7	99.7	18.1	106	3.60	0.6
06018	19.05	20	22	56	147	105	89.5	56	11.5	123.5	22.8	127	6.55	1.2
06022	19.05	20	28	71	168	117	116	56	11.5	123.5	22.8	151	10.4	1.2
08018	20.4	20	32	80	190	129	115	63	15.2	141.2	29.3	169	13.2	1.9
08022	20.4	20	40	100	226	137	142	71	15.2	157.2	29.3	202	21.8	2.7
10020	31.75	25	45	110	281	153	162	80	18.8	178.8	35.8	233	32.4	4.1
12018	38.1	35	50	125	307	181	173	90	22.7	202.7	45.4	256	43.2	5.2

## Chain coupling part numbers

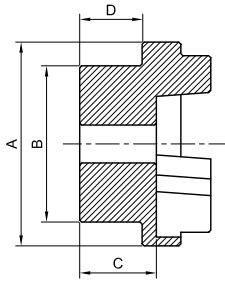
When placing an order please specify the product code which is composed in accordance with the following example:

CC - 04012

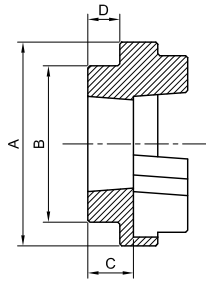
Type                      Size

**Type:** CC = Chain Coupling  
**Size:** 4012 to 10020 (padded to 5 digits)

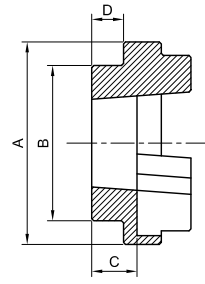
# HRC Couplings



Type B



Type H



Type F

## Pilot Bore (Type B)

Size	Max Bore		Dimensions							
	[mm]	[in]	A	B	C	D	E	F	G	L
070	32	1 1/4	69	60	23.5	20.0	31	25.0	18.0	65.0
090	42	1 5/8	85	70	30.0	26.0	32	30.5	22.5	82.5
110	55	2 1/8	112	100	45.0	37.0	45	45.0	29.0	119.0
130	60	2 3/8	130	105	55.5	47.0	50	53.0	36.0	147.0
150	70	2 3/4	150	115	60.0	50.0	62	60.0	40.0	160.0
180	80	3 1/8	180	125	70.0	58.0	77	73.0	49.0	189.0
230	100	4	225	155	90.0	77.0	99	85.5	59.5	239.5
280	130	5	275	206	105.5	90.0	119	105.5	74.5	285.5

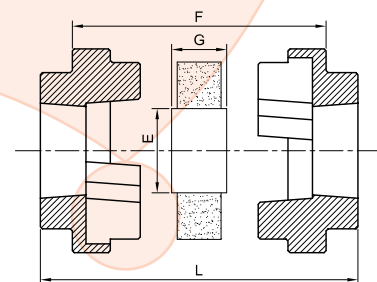
## Taper Lock (Type H & F)

Size	Bush	Max Bore		Dimensions							
		[mm]	[in]	A	B	C	D	E	F	G	L
070	1008	25	1	69	60	23.5	20.0	31	25.0	18.0	65.0
090	1108	28	1 1/8	85	70	23.5	19.5	32	30.5	22.5	69.5
110	1610	42	1 5/8	112	100	26.5	18.5	45	45.0	29.0	82.0
130	1610	42	1 5/8	130	105	26.5	18.0	50	53.0	36.0	89.0
150	2012	50	2	150	115	33.5	23.5	62	60.0	40.0	107.0
180	2517	60	2 1/2	180	125	46.5	34.5	77	73.0	49.0	142.0
230	3020	75	3	225	155	52.5	39.5	99	85.5	59.5	164.5
280	3525	100	4	275	206	66.5	51.0	119	105.5	74.5	207.5

## HRC coupling part numbers

When placing an order please specify the product code which is composed in accordance with the following example:

H R C - 0 7 0 - B  
 Type                      Size                      Configuration



Assembly

**Type:** HRC = HRC type coupling

**Size:** 70 to 280 (mm, padded to 3 digits)

**Configuration:**

B = Thru bore coupling half

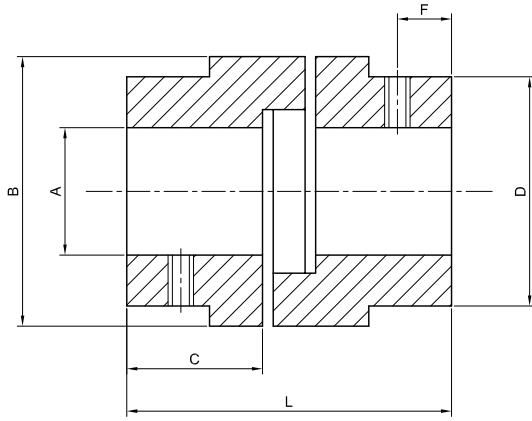
E = Rubber Element

F = Taperlock coupling half (reverse entry)

H = Taperlock coupling half (standard entry)



# Jaw Couplings



Size	Bore Sizes (Stocked) (mm)	[in]	Dimensions					Set Screw		Nom. Torque [Nm]	Weight [kg]	
			A	B	C	D	E	L	F			Size
035	8		16	21	8	6.5	-	20	3.0	M3	-	0.06
050	10 12 14 16	1/2 5/8	28	45	12	15.5	-	44	6.5	M6	3.51	0.10
070	10 12 14 16 18 19	1/2 5/8 3/4	35	51	13	19	-	51	9.5	M6	5.77	0.25
075	12 14 16 18 19 20 22 24	1/2 5/8 3/4 7/8	45	55	13	20.5	-	54	8.0	M6	11.9	0.45
090	14 16 18 19 20 22 24 25		54	55	13	21	-	54	8.7	M6	19.2	0.55
095	14 16 18 19 20 22 24 25 28	1/2 5/8 3/4 7/8 1 1 1/8	54	64	13	25.5	-	64	11.5	M6	25.8	0.65
099	20 22 24 25 28 30 32 35		65	73	19	27	-					
100	20 22 24 25 28 30 32 35	1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 3/8	65	89	19	35	-	89	12.5	M8	55.4	1.60
110	25 30 32 35 38 40 42	1 1 1/8 1 1/4 1 3/8	84	108	22	43	-	108	20.5	M10	105	3.00
150	30 32 35 38 40 42 45 48	1 1/4 1 1/2	96	115	25	45	80	115	22.5	M10	150	4.90
190	35 38 40 42 45 48 50	1 1/4 1 1/2	115	134	25	54	102	133	22.5	M12	200	7.00
225	38 40 42 45 48 50 55 60 65		127	154	26	64	108	153	25.5	M12	280	9.00
276	45 48 50 55 60 65 70		157	200	41	79	127					

Up to 1° angular misalignment.  
Up to 0.38mm parallel misalignment.

## Jaw coupling part numbers

When placing an order please specify the product code which is composed in accordance with the following example:

L J - 0 5 0 - M 1 4  
 Type                      Size    Element    Unit    Bore

**Type:** LJ = Jaw Coupling

**Size:** 35 to 276, (padded to 3 digits)

**Element:**

Blank = complete assembly,

H = Hub only,

I = Insert only.

**Unit:** M = Metric, I = Imperial

**Bore:**

Metric : 8 to 70 mm (padded to 2 digits)

Imperial : 0.5 to 1.5 inches (padded to 3 decimal places)

# Tyre Couplings

Coupling Size	Bush Size	Max Bore		Dimensions							Shaft Clamping Screw	Weight* [kg]
		[mm]	[in]	A [mm]	B	C	D	E	F	G		
040-B	-	32	-	104	-	82	22	11.0	33.0	-	M5	0.8
040-F	1008	25	1	104	-	82	22	11.0	33.0	29	-	0.8
040-H	1008	25	1	104	-	82	22	11.0	33.0	29	-	0.8
050-B	-	38	-	133	79	100	32	12.5	45.0	-	M5	1.2
050-F	1210	32	1 1/4	133	79	100	25	12.5	38.0	38	-	1.2
050-H	1210	32	1 1/4	133	79	100	25	12.5	38.0	38	-	1.2
060-B	-	45	-	165	70	125	38	16.5	55.0	-	M6	2.0
060-F	1610	42	1 5/8	165	703	125	25	16.5	42.0	38	-	2.0
060-H	1610	42	1 5/8	165	703	125	25	16.5	42.0	38	-	2.0
070-B	-	50	-	187	80	144	35	11.5	47.0	-	M10	3.1
070-F	2012	50	2	187	80	144	32	11.5	44.0	42	-	3.1
070-H	1610	42	1 5/8	187	80	144	25	11.5	42.0	38	-	3.0
080-B	-	60	-	211	98	167	42	12.5	55.0	-	M10	4.9
080-F	2517	60	2 1/2	211	97	167	45	12.5	45.0	48	-	4.9
080-H	2012	50	2	211	98	167	32	112.5	32.0	42	-	4.6
090-B	-	70	-	235	112	188	49	13.5	63.5	-	M12	7.1
090-F	2517	60	2 1/2	235	108	188	45	13.5	59.5	48	-	7.0
090-H	2517	60	2 1/2	235	108	188	45	13.5	59.5	48	-	7.0
100-B	-	80	-	254	125	216	56	13.5	70.5	-	M12	9.9
100-F	3020	75	3	254	120	216	51	13.5	65.5	55	-	9.9
100-H	2517	60	2 1/2	254	113	216	45	13.5	59.5	48	-	9.4
110-B	-	90	-	279	128	233	63	12.6	75.5	-	M12	12.5
110-F	3020	75	3	279	134	233	51	12.5	63.5	55	-	11.7
110-H	3020	75	3	279	134	233	51	12.5	63.5	55	-	11.7
120-B	-	100	-	314	143	264	70	14.5	84.5	-	M16	16.9
120-F	3525	100	4	314	140	264	65	14.5	79.5	67	-	16.5
120-H	3020	75	3	314	140	264	51	14.5	65.5	55	-	15.9
140-B	-	130	-	359	178	311	94	16.0	110.5	-	M20	22.2
140-F	3525	100	4	359	178	311	65	16.0	81.5	67	-	22.3
140-H	3525	100	4	359	178	311	65	16.0	81.5	67	-	22.3
160-B	-	140	-	402	187	345	102	15.0	117.0	-	M20	35.8
160-F	4030	115	4 1/2	402	197	345	77	15.0	92.0	80	-	32.5
160-H	4030	115	4 1/2	402	197	345	77	15.0	92.0	80	-	32.5
180-B	-	150	-	470	200	398	114	23.0	137.0	-	M20	49.1
180-F	4535	125	5	470	205	398	89	23.0	112.0	89	-	42.2
180-H	4535	125	5	470	205	398	89	23.0	112.0	89	-	42.2
200-B	-	150	-	508	200	429	114	24.0	138.0	-	M20	58.2
200-F	4535	125	5	508	205	429	89	24.0	113.0	89	-	53.6
200-H	4535	125	5	508	205	429	89	24.0	113.0	89	-	53.6
220-B	-	160	-	562	218	474	127	27.5	154.5	-	M20	79.6
220-F	5040	125	5	562	223	474	102	27.5	129.5	92	-	72.0
220-H	5040	125	5	562	223	474	102	27.5	129.5	92	-	72.0
250-B	-	190	-	628	254	532	132	29.5	161.5	-	M20	104.0

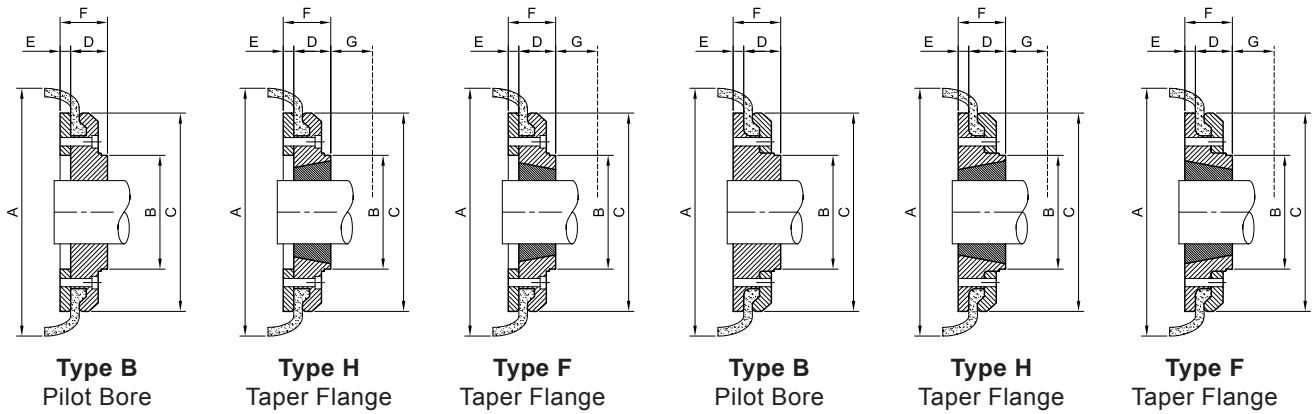
All Flexible tyres have up to 4° misalignment.

G = Wrench clearance needed to allow for the tightening or loosening of the bush on the shaft as well as the tyre clamping screws.

E = Half the distance required between flange faces.

\* Weights are for a single flange including mid range bore, clamping ring, screws and half tyre.

# Tyre Couplings



Size 040 to 060

Size 070 to 250

## Tyre coupling installation and operational data

Coupling Size	Flange Face [mm]	Tyre Gap [mm]	Torque (Nominal) [Nm]	Speed max [r/min]	Parallel Misalignment max [mm]	End Float max [mm]	Clamping Screw	
							Size [mm]	Torque [Nm]
040	22	2	24	4500	1.1	1.3	M6	15
050	25	2	66	4500	1.3	1.7	M6	15
060	33	3	127	4000	1.6	2.0	M6	15
070	23	3	250	3600	1.9	2.3	M8	24
080	25	3	375	3100	2.1	2.6	M8	24
090	27	3	500	300	2.4	3.0	M10	40
100	27	3	675	2600	2.6	3.3	M10	40
110	25	3	875	2300	2.9	3.7	M10	40
120	29	5	1330	2050	3.2	4.0	M12	50
140	32	5	2325	1800	3.7	4.6	M12	55
160	30	5	3770	1600	4.2	5.3	M16	80
180	46	6	6270	1500	4.8	6.0	M16	105
200	48	6	9325	1300	5.3	6.6	M16	120
220	55	6	11600	1100	5.8	7.3	M20	165
250	59	6	14675	1000	6.6	8.2	M20	165

## Tyre coupling part numbers

When placing an order please specify the product code which is composed in accordance with the following example:

F 0 5 0 - T - T Y R E  
 Type    Size    Configuration    Element

- Type:** F = Tyre Coupling
- Size:** 40 to 250, (padded to 3 digits)
- Configuration:**
  - F = Taperlock Hub (reverse entry)
  - H = Taperlock Hub (standard entry)
  - B = Hub (thru bore)
  - T = Tyre
- FW** = Flywheel Stub Shaft
- FH** = Complete Assembly
- Element:** TYRE or FLANGE

