

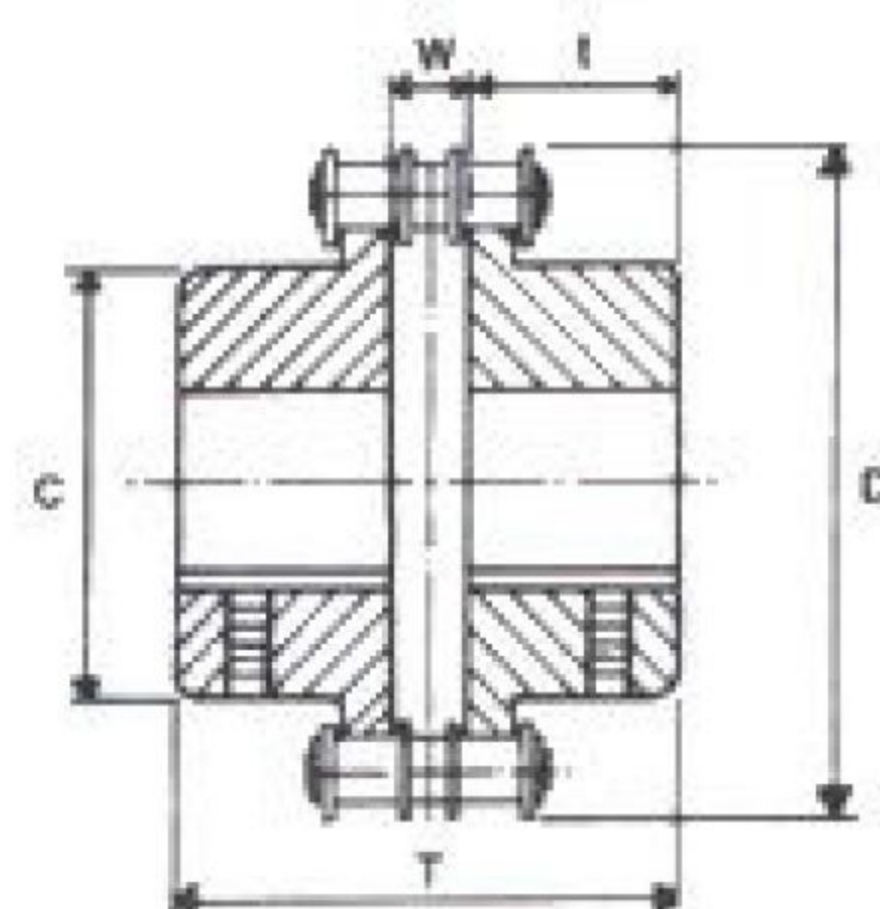
ROLLER CHAIN FLEXIBLE COUPLINGS

EMCO Roller chain Flexible Couplings are compact, all steel, long lasting flexible couplings, capable of transmitting relatively high torques with minimum of space consumption. Consequently, they provide a most economical means of positive transmission of power from one shaft to another.

The simple design and construction of these couplings make them extremely easy to install and disconnect, providing additional economy of operation.

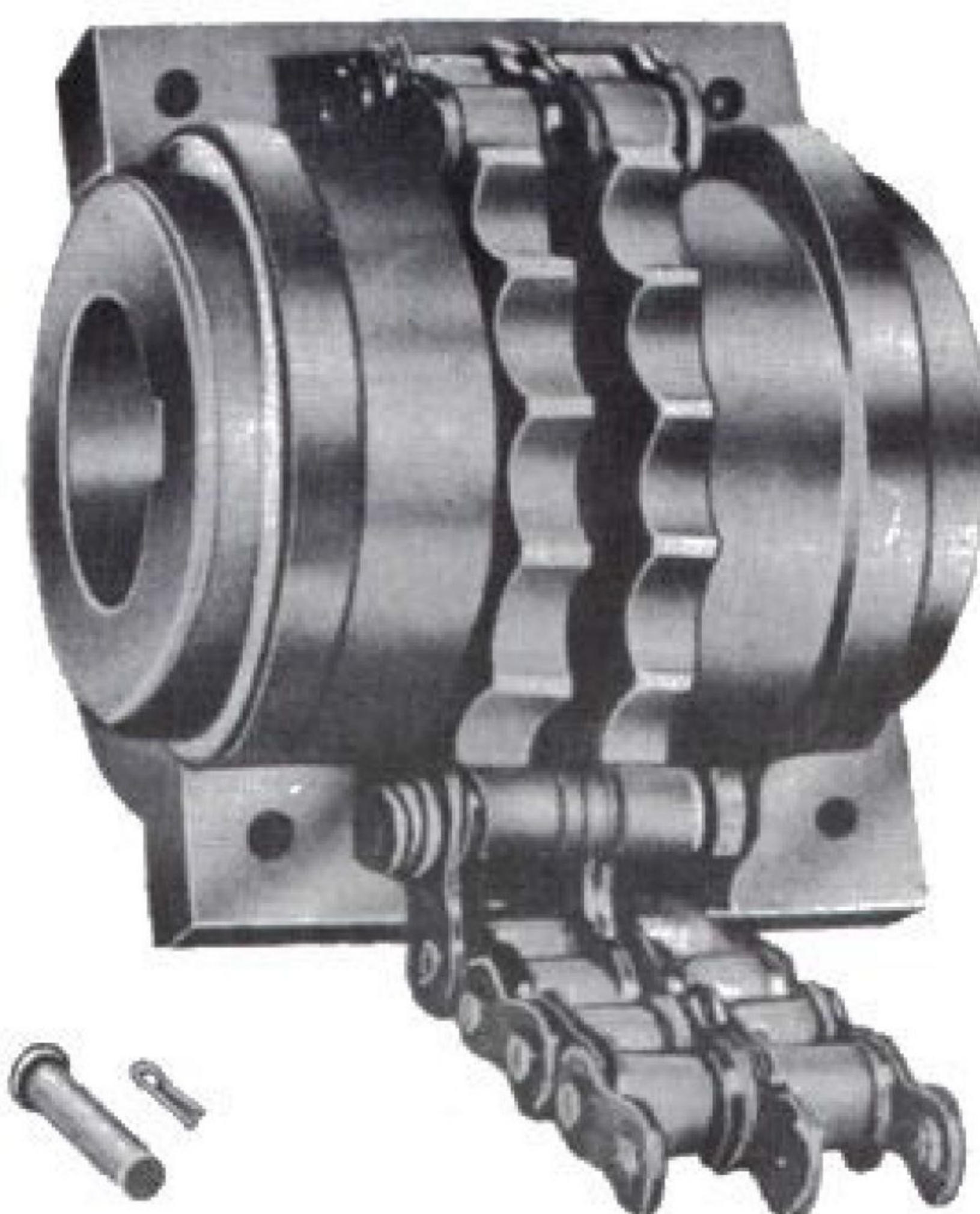
The sprockets are identical in construction, thus providing a balanced unit in operation and reducing effects of vibration. In addition, the flexibility of roller chain plus clearance between the chain rollers and sprocket teeth allow for slight misalignment and shaft end float.

Stock Couplings sizes will usually meet most power transmission requirements. However when necessary special couplings can be furnished on a made to order basis to suit a particular application. In such cases, complete information should be given when requesting a recommendation or quotation. This includes horsepower and RPM requirements, hub dimensions, bore and keyway sizes, and general operating conditions



CHAIN COUPLING SIZE	ASA No.	BORE		T	t	W	C	D	Wt. Kg.
		MIN.	MAX.						
NT 6112	3812	10.00	16	65	30	5.0	27	45	0.30
NT 8312	4012	10.00	22	79	36	7.0	35	60	0.80
NT 8316	4016	12.00	32	79	36	7.0	50	77	1.60
NT 1016	5016	16.00	42	96	44	8.0	61	96	2.60
NT 1018	5018	16.00	48	98	45	8.0	71	106	3.50
NT 1218	6018	20.00	60	121	56	9.0	88	126	6.5
NT 1222	6022	20.00	76	121	56	9.0	110	150	10.0

CHAIN COUPLING SIZE	A.S.A. No.	BORE		T	t	W	C	D	Wt. Kg.
		MIN.	MAX.						
NT 1618	8018	25	80	150	67	16	115	170	14.5
NT 1622	8022	25	95	150	67	16	140	201	20.0
NT 2020	10020	40	110	200	91	18	160	231	33.5
NT 2418	12018	50	119	260	118	24	169	254	51.0
NT 2422	12022	50	150	260	118	24	208	301	76.0
NT 3218	16018	50	160	360	165	30	220	341	121.0
NT 3222	16022	50	199	360	165	30	280	410	170.0
NT 4018	20018	80	205	517	240	37	295	425	425.0
NT 4022	20022	80	260	517	240	37	373	507	450.0

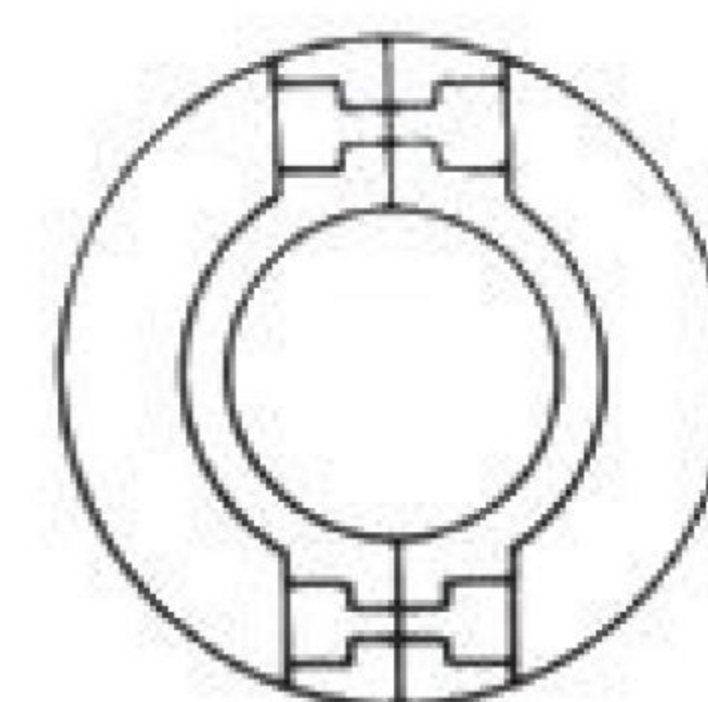
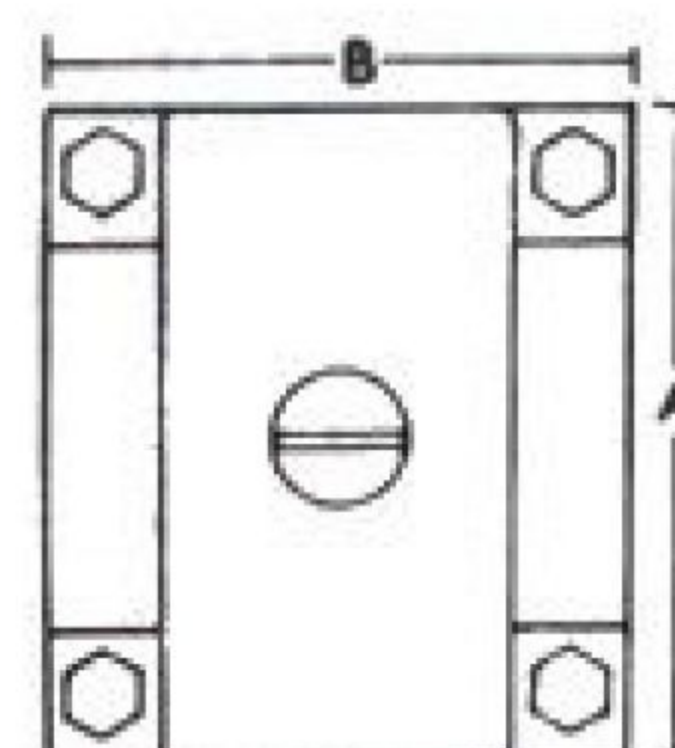


EMCO COUPLING COVERS

PLASTIC / ALUMINIUM

Aluminium covers are available for all the sizes.

Plastic covers are available only for sizes up to NT-1218.



CHAIN COUPLING SIZE	ASA No.	A	B	Wt. Kg.
NT 1618	8018	195	130	2.3
NT 1622	8022	220	132	2.4
NT 2020	10020	258	178	3.4
NT 2418	12018	292	220	5.9
NT 2422	12022	340	220	7.3
NT 3218	16018	385	240	14
NT 3222	16020	472	250	17
NT 4018	20018	496	280	22
NT 4022	20022	578	280	26

CHAIN COUPLING SIZE	ASA No.	A	B	Wt. Kg.
NT 6112	3812	69	59	0.2
NT 8312	4012	75	68	0.2
NT 8316	4016	90	70	0.4
NT 1016	5016	110	86	0.6
NT 1018	5018	121	86	0.8
NT 1218	6018	149	90	1.2
NT 1222	6022	173	110	1.6

SELECTION OF THE COUPLINGS

1. Decide service factor for the unit for which the chain coupling is to be fitted by considering the hours of service, type of the power unit etc. from the following table :-

Driven equipment			Source of Power		
Service classification	Kinds	Characteristics	Electric motor or steam turbine	Steam or gasoline engine 4 or more cyl.	Diesel or Gas Engine
A	Centrifugal fans, blowers of pumps conveyor evenly loaded.	Even load - 8 hours/day service, Non-reversing-low torque starting.	1	1.5	2.0
B	Compressor, Conveyor, pulsating load machines, kilns and driers, speeds reducers, Multi cylinder pumps, wood working machines, etc.	Uneven load -8 hours / day service, Moderate shock or torsional loads, Non-reversing. This is the most common type of service.	1.5	2.0	2.5
C	Presses, crushers, impact loads, Oil well pumping equipment.	Heavy shock load - 8 hours / day service, High peak torsional loads. Reversing under load. Full load starting	2.0	2.5	3.0

For 8 to 16 hrs/day service use next step service factor.

For 16 to 24 hours/day service use service factor two step higher loading.

- Multiply horsepower of driver unit by the service factor. This is the design horsepower.
- Note the maximum rpm. at which the unit will run and its shaft diameter.
- From H.P. rating table select the coupling size which is rated equal to or slightly greater than design H.P. required at the rpm. at which the coupling is to operate.
- Also make sure that the diameter at the shaft is less than the maximum bore permissible on the coupling. If the coupling is not large enough to accommodate the shaft size, use the next coupling which can be bored to suit the shaft requirement.

HORSE POWER RATINGS TABLE

COU-PLING SIZE	EQUI-ASA NO.	MAX. BORE	← REVOLUTIONS PER MINUTE →																							
			1	5	10	25	50	100	200	300	400	500	600	800	1000	1200	1500	1800	2000	2500	3000	3600	4000	4800	5200	6000
NT 6112	3812	16	0.013	0.066	0.146	0.346	0.693	1.053	1.613	2.106	2.520	3.013	3.440	4.253	5.173	5.880	7.133	8.333	8.973	10.82	12.58	14.66	16.00	18.86	19.73	22.26
NT 6312	4012	22	0.026	0.146	0.293	0.773	1.533	2.306	3.506	4.613	5.533	6.613	7.560	9.346	11.37	12.90	15.46	18.26	19.73	23.56	27.60	32.13	35.06	41.06		
NT 6316	4016	32	0.053	0.280	0.546	1.373	2.746	4.120	6.253	8.226	9.880	11.80	13.46	16.66	20.40	23.06	28.00	32.53	35.06	42.53	49.33	57.33	62.53	73.20		
NT 1016	5016	42	0.106	0.520	1.040	2.600	5.213	7.813	11.89	15.60	18.80	22.40	25.60	31.73	38.53	43.86	53.20	61.86	66.66	80.80	93.86	106.80				
NT 1018	5018	48	0.133	0.666	1.320	3.306	6.600	9.906	15.06	19.66	23.73	28.40	32.53	40.13	48.60	55.46	66.733	78.40	84.53	102.40	118.13					
NT 1218	6018	60	0.240	1.240	2.490	6.226	12.44	18.66	28.40	37.33	44.80	53.46	61.20	75.73	92.13	104.53	126.93	148.0	160.0	193.33						
NT 1222	6022	76	0.333	1.666	3.346	8.413	16.66	25.06	38.13	50.26	60.40	72.13	82.53	102.0	124.13	140.0	170.66	198.66	214.66	260.0						
NT 1618	8018	90	0.546	2.760	5.520	13.73	27.60	41.33	62.93	82.60	99.33	118.66	134.66	168.0	204.0	232.0	281.33	328.0	353.33							
NT 1622	8022	95	0.766	3.946	7.906	19.73	39.46	59.33	89.60	118.66	141.33	169.33	194.66	240.0	292.0	332.0	402.6	469.33	505.33							
NT 2020	10020	110	1.240	6.213	12.44	31.06	62.13	93.33	141.33	166.66	224.0	266.66	305.33	377.33	460.0	522.66	634.66	738.66								
NT 2418	12018	119	1.666	8.360	16.66	46.80	93.60	140.0	213.33	280.0	336.0	402.6	480.0	588.0	692.0	796.66	954.66		DESIGN HORSE POWER							
NT 2422	12022	150	2.413	12.06	24.13	60.40	120.93	181.33	274.66	362.66	434.66	520.0	604.66	734.66	804.66	1016.0										
NT 3218	16018	160	4.040	20.13	40.40	101.06	201.33	302.66	460.0	604.66	728.0	869.33	964.66	1229.3	1406.0											
NT 3222	16022	199	5.906	29.46	59.06	146.66	294.66	444.00	674.66	896.66	1065.3	1272.0	1453.3	1800.0	2196.6											
NT 4018	20018	205	8.080	40.40	80.80	201.33	404.00	605.33	921.33	1212.0	1453.3	1733.3	1986.6	2453.3												
NT 4022	20022	260	10.17	50.93	101.73	254.66	509.33	762.66	1161.33	1520.0	1826.6	2196.6	2506.6													

LUBRICATION

Couplings operating without covers under fairly clean conditions will give satisfactory service providing they are periodically (weekly) brushed throughly with ball grease of medium consistency. Couplings operating with covers should be kept filled with a good quality ball bearing grease of soft or medium consistency.