



# WELLMAN WACOMA LIMITED

## RESILIENT COUPLINGS

### STANDARD COUPLINGS-TYPE A, B, C, H & HX



Universally accepted by engineers as one of the most effective shock absorbing and detuning couplings in existence, Wellman Resilient Couplings have earned a world-wide reputation second to none for drives where long trouble-free operation is essential.

Applications range from stationary, marine power units to steel works, paper mills and mine winders — applications where reliability is of paramount importance. Ratings for standard designs range from 0.005 h.p. to 50 h.p. per r.p.m., but much larger couplings of more than 2,000 h.p. per r.p.m. have been, and can be, supplied.

Wellman engineers have accumulated vast experience in this highly specialised field of engineering, and are experts in the design of 'specials' including brake-wheel, shear pin and controlled torque types, cardan units, turbine and limited end float couplings.

#### RANGE OF PRODUCTS

Gear Couplings	Pin Bush Couplings
Resilient Couplings	Tyre Couplings

The Coupling rating in the fifth column of each table is the maximum horse power per revolution per minute which the coupling will transmit at the recommended working limit of its resilient capacity, thus :

Rating of coupling = Maximum h.p./r.p.m.

The maximum horse power in the above formula is in most cases the normal rated horse power multiplied by a factor which takes into account such contingencies as overload shocks, stalling and accident misalignment, thus

$$\text{Rating of coupling} = \frac{\text{Normal h.p.} \times \text{factor}}{\text{r.p.m.}}$$

Specification of the Standard Couplings also given in tables given in this catalogue.

### Typical Factors for Couplings

Example, for a centrifugal pump driven by an electric motor rated at 300 h.p. at 1470 r.p.m. or 0.204 h.p./r.p.m. the coupling no. 212 is required having a factor 1.71

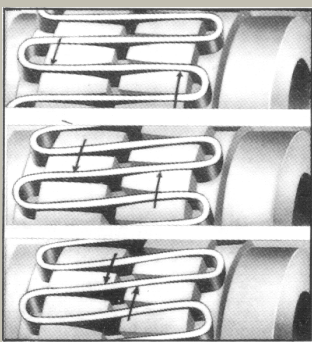
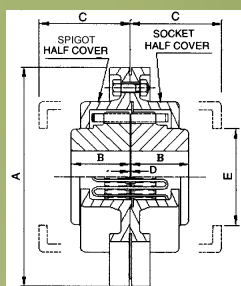


Figure 1. WWL Spring Grid Coupling under normal load (top). normal overload (middle) and severe shock overload (bottom).

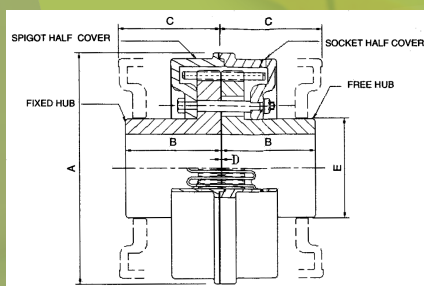
Class of Machine	Factor	Class of Machine	Factor
Agitator	... 2	Industrial	... 2.0
Calendar	... 3	Mine	... 2.5
Cement Mill and Kiln	... 3	Haulage	... 3
Conveyor : Horizontal	... 1.0	Line shafting	... 2
: Inclined	... 1.5	Machine Tool : Reversing	... 3.0
Couches	... 2.5	: Other	... 1.5
Crane motions	...	Paper Mill	... 2 to 4+
a) (Classes 3 & 4) Hoist	... 4	Pumps : Centrifugal	... 1.25
Long travel	... 3	Rotary	... 2
Cross traverse	... 3	Reciprocating	... 3
b) (Classes 1 & 2) Hoist	... 3	Rock Crushers	... 4
Long Travel	... 2.5	Rubber Mill : Rubber Mixer	... 3
Cross traverse	... 2.5	Steel Work Drives	... 2 to 5+
Electric Generator (Steady load)	... 1.75	Turbines Driven Generators	... 1.25
Fan : Cooling tower	... 2.5	Roll'g Mills,	...
		Motor Driven without Flywheel	... 4

+ Depending upon specific application.

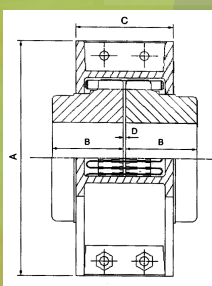




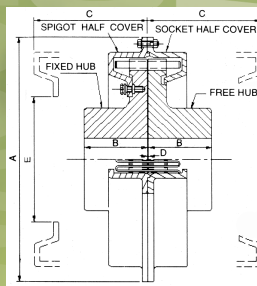
**Type A**  
(No. 102-318)



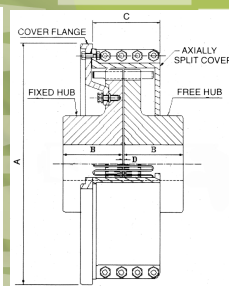
**Type B**  
(No. 432-478)



**Type C**  
(No. 102-478)



**Type H**  
(No. 556 to 788)



**Type HX**  
(No. 556 to 634)

Coupling Number (See Note 1)	TYPE A, B, C & H			TYPE A, B & H							TYPE C & HX					
	Boss Length	Gap	Stock Rough Bore	Rating H.P. per R.P.M.	Clear Dia.	Removal Space	Cover Bore	Safe Speed	Max. Bore	Approx Weight	Rating H.P. per R.P.M.	Clear Dia.	Cover Width	Safe Speed	Max. Bore	Approx. Weight
	B (M. M.)	D (M. M.)	(M. M.)		A (M. M.)	C (M. M.)	E (M. M.)	R.P.M.	(M.M.)	(Kg.)		A (M. M.)	C (M. M.)	R.P.M.	(M.M.)	(Kg.)
102	38.0	0.8	10	0.006	105	53	44.5	5625	29	3	0.006	105	58	3500	29	2
110	38.0	0.8	13	0.009	120.5	53	58.8	4700	38	4	0.009	121	58	3300	38	4
120	44.5	0.8	16	0.015	144.5	60	62.0	4420	41	5	0.015	127	64.5	3300	41	5
124	51.0	0.8	16	0.025	171.5	60	87.4	3360	57	9	0.025	159	66	2500	57	8
130	51.0	0.8	16	0.04	190.5	80	84.2	3130	54	11	0.04	178	84.5	2300	54	13
136	57.0	0.8	16	0.06	197	80	97.0	2900	60	16	0.06	191	85	2100	60	17
152	63.5	0.8	25	0.09	222	80	119.2	2430	78	20	0.09	222	86.5	1800	78	19
158	70.0	0.8	25	0.12	254	81	143.0	2090	92	27	0.12	244.5	86.5	1600	92	27
168	89.0	0.8	25	0.18	276	81	165.2	1860	108	43	0.18	267	86.5	1500	108	40
212	102.0	1.6	38	0.35	295	129	155.7	1765	102	54	0.35	276	138	1400	102	47
236	101.5	1.6	50	0.45	324	148	187.4	1560	122	63	0.45	324	157	1250	122	68
266	101.5	1.6	50	0.65	336.5	148	184.3	1500	121	72	0.65	336.5	157	1200	121	74
290	114.0	1.6	50	0.90	375	148	222.4	1290	146	104	0.90	381	159	1000	146	108
318	127.0	1.6	50	1.25	425.5	148	254.0	1230	167	149	1.25	425	160	900	167	149
432	140.0	3.2	75	2.40	432	180	239.5	1145	157	180	2.40	502	179	750	202	234
478	152.5	3.2	89	3.50	492	180	266.7	1015	173	216	3.50	552.5	179	678	233	317
556	177.8	3.2	115	5.50	686	215	349	1130	190	410	5.50	717	210	590	190	410
600	202.8	3.2	140	7.50	781	215	432	1100	215	550	7.50	813	210	520	245	550
634	228.5	6.4	150	10.50	876	255	482	880	241	882	10.50	914	249	460	241	882
666	228.5	6.4	159	17.50	1016	255	622	745	266	1575	-	-	-	-	-	-
706	280	6.4	159	21.00	1003	335	540	775	279	1025	-	-	-	-	-	-
722	305	6.4	159	27.00	1149	335	717	655	330	2250	-	-	-	-	-	-
734	305	6.4	159	37.00	1324	335	816	562	380	2700	-	-	-	-	-	-
788	306	6.4	159	50.00	1500	335	934	495	435	3600	-	-	-	-	-	-

NOTES : 1. For vertical shafts higher speed and rapidly reversing drives special designs are necessary. 2. Where space is not available for withdrawal of spring covers and provided the speed is suitable, axially split covers can be supplied. 3.All dimensions are subject to confirmation.



## WELLMAN WACOMA LIMITED

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