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Solenoid Selector —Stroke vs Force

(Stroke in inches vs. Force in ounces)

Continuous Duty DC

TYPE	1/16	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4
L-06	2.6	.8	.3							
L-05	2.5	1	.5							
L-75-1	13	3	1							
L-22	13	5	2	1	.5					
L-61	14	7	3	2	1					
L-20	22	9	4	2.3	1.5					
L-24	24	11	5	2.7	2	1.5				
L-81	23	14	8	4						
L-75-2	28	14	6	3	2.5					
L-28	31	15	5	3	1					
L-26	33	18	7	4	3	2	1			
L-10-1	64	20	8	4	2	1.5	1			
L-62	37	26	13	7	5.5					
L-11	46	26	10	6	4	3	2			
L-63	56	31	14	8	5	3	2			
L-82	55	40	19	10	5	3	2			
L-10-2	104	56	23	12	8	6	5	2		
L-04	96	56	29	17	12	9	7	5	4	
L-88	120	74	30	15	8	4				
L-90	148	114	62	35	23	17	13	11	8	5
L-15-1	150	96	39	23	11	7	2			
L-15-2	160	128	64	38	24	16	13	9	5	3
L-15-2HD	224	136	70	40	28	19	13	11	8	5
M-82	72	45	24	13	6	4	3			

Coil may be energized continuously

Pulse Duty DC

TYPE	1/16	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4
L-06	10.7	5.2	1.8							
L-05	15	7	1.5							
L-22	38	25	11	6	3					
L-75-1	56	30	10	3						
L-20	60	47	24	13	7					
L-61	67	51	27	14	8					
L-24	68	52	32	20	13	8				
L-75-2	68	52	34	26	21	14	10	6		
L-26	74	62	43	30	22	17				
L-28	83	70	23	13						
L-11	90	80	53	42	37	34				
L-81	104	85	64	33						
L-10-1	158	122	66	32	15	8	3			
L-82	136	117	90	62	40	26	16			
L-62	172	142	89	43	27					
L-63	168	147	105	67	45	28	16			
L-10-2	175	150	120	96	70	58	40	26	16	3
L-04	240	208	163	128	98	79	60	46	32	
L-88	241	180	94	71	40					
L-15-1	230	202	150	112	80	50	28	16		
L-90	266	230	188	154	126	106	94	89	68	40
L-15-2	250	224	198	164	144	120	100	82	66	24
L-15-2HD	336	312	272	235	200	160	115	88	69	32
M-82	150	130	96	59	30	26	16			

10% duty cycle maximum on time 100 ms

Intermittent Duty AC

TYPE	1/16	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4
L-22	10	6	4	2	1.5					
L-20	20	14	9	7	4					
L-61	22	15	12	9	5					
L-24	26	19	14	11	8	5				
L-26	25	19	15	13	11	9	6			
L-28	29	20	14	9	4					
L-90	27	22	18	17	18	19	20	21	21	17
L-81	34	23	15	8						
L-11	33	25	20	18	18	16	13			
L-82	46	31	26	26	28	29	28			
L-88	49	36	28	23	17	10	4			
L-63	56	44	38	36	34	27	18			
L-62	64	55	42	36	26					
L-04	74	64	51	50	50	53	53	50	45	18

25% duty cycle 1 minute maximum on time (if plunger is seated)

Continuous Duty AC

TYPE	1/16	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4
L-22	5.5	4	2.5	1.5	0.5					
L-20	10	7	5	3.5	2					
L-61	10	7	5	4	2					
L-90	12	9	7	7	7	8	8	9	9	7
L-24	14	10	7	6	4	2				
L-28	15	11	7	4.5	2					
L-26	16	12	9	8	6	5	3			
L-04	17	12	9	9	10	10	10	10	8	3
L-82	17	12	10	10	11	11	11			
L-11	18	13	10	10	10	8	6			
L-81	19	13	9	5						
L-63	20	15	13	13	11	9	6			
L-88	24	18	14	11	8					
L-62	24	19	15	13	10					

Coil may be energized continuously (if plunger is seated)

Intermittent Duty DC

TYPE	1/16	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4
L-06	7.0	2.4	.8							
L-05	7.5	3	.75							
L-22	22	10	3	2	1					
L-75-1	27	10	3	1						
L-61	30	17	7	4.4	2					
L-20	34	21	8	4	2					
L-81	40	27	14	7						
L-24	44	24	11	7	4.5	3.2				
L-28	50	28	11	7	4					
L-26	52	36	21	11	7	4	1			
L-62	56	37	20	11	7					
L-75-2	64	46	28	20	14	11	6	4		
L-11	64	45	24	15	11	8	6			
L-63	84	54	27	15	10	6	4			
L-10-1	96	54	20	9	4	2	1			
L-82	92	70	43	24	14	9	7			
L-10-2	160	118	80	53	35	25	16	12		
L-88	184	136	68	36	20	11				
L-04	213	160	107	75	53	36	27	19	14	
L-90	208	176	131	95	72	56	44	36	28	16
L-15-1	210	178	120	74	48	80	16			
L-15-2	210	184	138	110	80	62	48	38	28	16
L-15-2HD	275	256	192	144	104	74	53	38	28	16
M-82	100	78	48	26	14	9	7			

25% duty cycle maximum on time 1 minute

Pulse Duty AC

TYPE	1/16	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4
L-22	19	14	9	6	3					
L-61	44	21	24	20	11					
L-20	48	36	26	19	11					
L-24	52	38	30	25	18					
L-11	54	42	34	32	30	27	23			
L-28	62	46	34	21	11					
L-26	72	53	43	39	36	30	20			
L-90	80	58	47	45	46	47	50	51	51	43
L-81	90	61	41	25						
L-82	96	66	53	52	54	55	51			
L-63	103	80	70	67	60	50	34			
L-04	106	74	61	65	67	68	72	70	60	25
L-62	117	91	76	66	48					
L-88	138	101	76	63	47	31	13			

10% duty cycle maximum on time 100ms

The above charts are provided as an aid to solenoid selection and is derived from typical force curves. These values should not be interpreted as minimum values. Deviations can be expected due to normal manufacturing, and coil winding tolerances. Due to differences in size, the wattage for continuous, intermittent, and pulse duty coils will be different from one type of solenoid to another. Although only 3 wattages (duty cycles) are listed for each type of solenoid, other possibilities are available. Contact Pontiac Coil for more information.