

Measured Load in Lbs at length increments of 1 mm of the outer spring

	<u>Tony Ingram Race and Rally</u>			<u>QED Race Assembly</u>	<u>Dave Bean Special Assembly</u>	<u>Dave Bean Race Assembly</u>	<u>Omnitech IRL Assembly</u>	<u>QED Q55 Assembly</u>	<u>Standard Assembly</u>	<u>Rex Colliver HD Assembly</u>
<u>Colour</u>	dark blue 2012	Light blue 2020	Red	red	grey	black steel	stainless steel	black steel	black steel	black steel
<u>Diameter</u>	small	small	small	small	small	large	large	Large	Large	Large
<u>Retainer</u>	Shim	shim	shim	cap	shim	cap	cap	shim	shim	shim
<u>Other</u>			Same as QED Race ?	Elan Factory A	Elan Factory B					
<u>Free Lgth</u>	43.4	42.7	not measured							
Outer spring length mm										
39					44					
38					54					
37	53	47								
36	62	56		42	64		46			
35	71	65		49	73		60			
34	80	74		56	83	40	74	37		
33	89	83		66	93	50	87	42		40
32	98	92	80	76	102	60	98	47		50
31	109	101		87	112	70	110	52		61
30	119	110		97	121	80	121	57	45	72
29	128	120		107	131	89	133	62	54	83
28	137	130		117	140	99	145	67	63	94
27	148	140		127	150	109	157	72	72	104
26	159	150		138	159	119	169	77	81	114
25	170	160		148	169	129	181	82	90	125
24	180	170		158	179	139	193	87	110	138
23	190	180		168	190	149	205	92	120	150
22	200	190		178	200	160	217	97	130	163
21	211	201	185	188	211	171	230	103	140	176
20	223	213		198		182	245	109	155	
19				208		194	260	115	170	
18						206				
17						220				
16										
15										
coil bind mm	19.7	18.5		18.4	20.2	16.2	18.3 binds on inner	17.5	18.0	20.6

Notes Green region acceptable load for seat at > 60 lbs and nose at < 210 and coil bind clearance on nose >1.5mm
Red region where coil bind

The retainers have different top of spring to valve groove location for the different spring packs so install height may vary for different spring packs for the same valve and head installation