



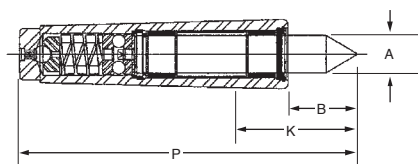
Standard Spring Loaded and Interchangeable Bell Head Live Centers

- Accuracy to $\pm .0001$.
- Spring loaded spindle compensates for thermal expansion.
- Low profile - less overhang, added load capacity, and increased rigidity

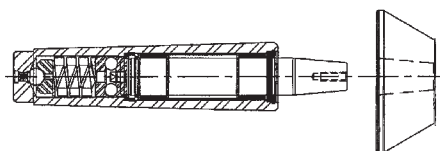


Seventy years ago, Concentric pioneered and patented the first spring loaded live center. Today, this streamlined high precision center is available from Riten.

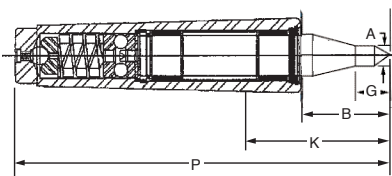
Standard Point



Bell Head Point



Long Point (Morse taper only)



STANDARD POINT AND BELL HEAD

Type	A	B	K*	P	Max Thrust Load	Max Spring Travel	Max W.P. Weight	Max RPM
II	0.378	0.88	1.38	3.95	173	0.094	274	3000
III	0.558	1.16	1.69	4.95	235	0.125	400	3000
IV	0.686	1.38	2.38	6.29	780	0.156	960	2000
V	1.075	2.00	2.88	8.02	1088	0.188	1450	1500
VI	1.509	2.81	3.63	11.00	2183	0.188	2500	1500

* K: Gage line to point typical for Morse Tapers.

Bell Head point ordered separately

LONG POINT

Type	A	G	K*	Max Thrust Load	Max Spring Travel	Max W.P. Weight	Max RPM
II	0.188	0.35	1.38	173	0.094	150	3000
III	0.250	0.47	1.69	235	0.125	260	3000
IV	0.686	0.70	2.38	780	0.156	580	2000
V	1.075	0.93	3.63	1088	0.188	1100	1500
VI	*	*	*	*	*	*	*

* Available on special order

Special lubricating grease required for Concentric centers:

14.5 oz. tube, part no. 17991

Heavy duty grease gun, part no. 17990

Low profile grease gun nozzle - # Z737, part no. 17993

MORSE TAPER				
	Standard Point	Long Point	Bell Head	Type
2 MT	17102	17162	17122	II
3 MT	17103	17163	17123	III
4 MT	17104	17164	17124	IV
5 MT	17105	17165	17125	V
6 MT	17106	*	17126	VI

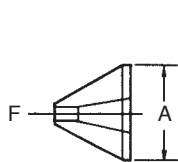
JARNO TAPER				
	Standard Point	Long Point	Bell Head	Type
6	17206	*	17226	II
7	17207	*	17227	II
8	17208	*	17228	III
9	17209	*	17229	III
10	17210	*	17230	IV
11	17211	*	17231	IV
12	17212	*	17232	IV
14	17214	*	17234	V
16	17216	*	17236	V
20	17220	*	17240	VI
22	17222	*	17242	VI

* Available on special order

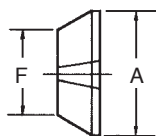
BROWN & SHARPE TAPER				
	Standard Point	Long Point	Bell Head	Type
7	17407	*	17427	II
8	17408	*	17428	II
9	17409	*	17429	III
10	17410	*	17430	IV
11	17411	*	17431	IV
12	17412	*	17432	V
13	17413	*	17433	V
14	17414	*	17434	V
15	17415	*	17435	VI
16	17416	*	17436	VI

STRAIGHT SHANK				
	Standard Point	Long Point	Bell Head	Type
5/8	17301	*	17321	II
3/4	17302	*	17322	II
1	17303	*	17323	III
1 1/16	17304	*	17324	III
1 1/4	17305	*	17325	III
1 1/2	17306	*	17326	IV
1 3/4	17307	*	17327	V
2	17308	*	17328	V
2 1/4	17309	*	17329	VI
2 1/2	17310	*	17330	VI
3	17311	*	17331	VI

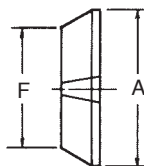
Interchangeable Bell Head Adapters



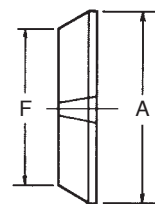
Style 1



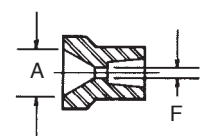
Style 2



Style 3



Style 4



Style 5 Female Head

	STYLE 1			STYLE 2			STYLE 3			STYLE 4			STYLE 5		
Center Type	Part No.	A	F	Part No.	A	F	Part No.	A	F	Part No.	A	F	Part No.	A	F
II	00231	1.31	0.25	00232	1.82	1.24	00233	2.44	1.75	00234	2.84	2.26	00235	0.76	0.13
III	00331	1.83	0.35	00332	2.58	1.72	00333	3.32	2.46	00334	4.06	3.20	00335	1.12	0.19
IV	00431	2.27	0.36	00432	3.25	2.17	00433	4.22	3.14	00434	5.19	4.11	00435	1.37	0.23
V	00531	3.33	0.51	00532	4.80	3.21	00533	6.19	4.60	00534	7.65	6.06	00535	2.00	0.38
VI	00631	5.12	0.68	(Contact factory for availability).											