



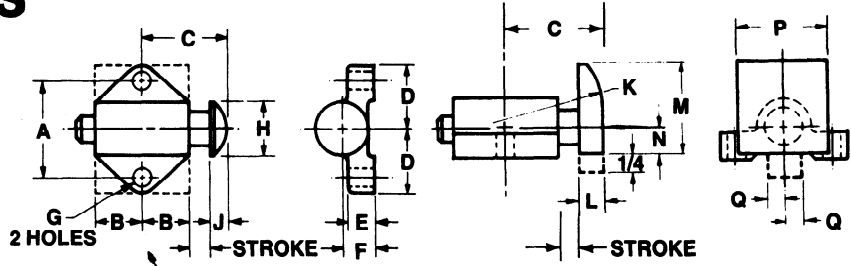
**VLIER**

**Spring Stops**



SS, ROUND NOSE

**SPRING STOPS.** These lightweight spring stops provide accurate, controlled end forces where fixture walls are not available. Their relieved base seats perfectly and eliminates wobble. Feet provide firm mounting when bolted to fixture base. SS-88 and SS-92 series have die-cast aluminum bodies, SS-90 series have steel bodies. **ROUND NOSE SPRING STOPS ARE AVAILABLE WITH DELRIN.**



Dashed line denotes base configuration of SS90 and SS92 series.

**FLAT FACE MODELS**



SS-A, WITH TANG    SS-B, NO TANG

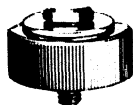
**FLAT FACE MODELS WITH TANG** prevent thin stock from sliding under the stop when the tang is in a hole or slot below the working surface of the table or fixture.

**FLAT FACE MODELS** are ideal for holding sheet metal during welding or where maximum holding area is required.

PART NO.		END FORCE, LBS.		STROKE	A	B	C	D	E	F	G
STEEL NOSE	DELRIN NOSE	INIT.	FINAL								
SS-88	NSS-88	5.13	14.58	.125"	.656	.344	.593	.437	.187	.218	.136
SS-88A	-						.656				
SS-88B	-						.656				
SS-90	NSS-90	2.25	25.75	.187	1.125	.500	.875	.750	.250	.312	.203
SS-90A	-						.875				
SS-90B	-						.937				
SS-92	NSS-92	16.5	14.5	.250	1.500	.688	1.218	1.000	.250	.437	.266
SS-92A	-						1.218				
SS-92B	-						1.313				

PART NO.		H	J	K	L	M	N	P	Q	
STEEL NOSE	DELRIN NOSE									
SS-88	NSS-88	.375	.125	-	-	-	-	-	-	
SS-88A	-	-	-	.562	.187	.625	.200	.625	.125	
SS-88B	-	-	-	.562	.187	.625	.200	.625	-	
SS-90	NSS-90	.562	.187	-	-	-	-	-	-	
SS-90A	-	-	-	1.000	.250	.875	.297	.875	.187	
SS-90B	-	-	-	1.000	.250	.875	.297	.875	-	
SS-92	NSS-92	.812	.281	-	-	-	-	-	-	
SS-92A	-	-	-	1.250	.375	1.250	.422	1.250	.250	
SS-92B	-	-	-	1.250	.375	1.250	.422	1.250	-	

**Stock Crowder**



Provides positive alignment of stock in dies and fixtures. Saves pilots and is easily removed when dies are to be sharpened. Handles stock as thin as .010" and width variation up to 1/16". Thinner material can be handled by setting stock pusher in counterbore. Simple to mount—only requires one tapped hole. Patent No. 2,939,699.

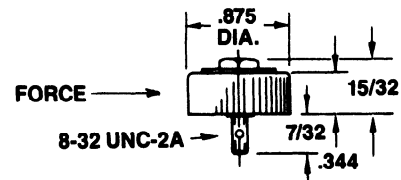
SHOULDER SCREW

WASHER

CADMIUM-PLATED OUTER RING

COMPRESSION WASHER

OILITE BUSHING



PART NO.	FORCE, LBS.
PL-4	2
	4
PM-4	3
	6
PH-4	5
	10

To assure that the proper force will be applied as shown in chart, locate tapped hole .407" from edge of stock (for 2, 3, and 5 lbs.), or .376" from edge of stock (for 4, 6, and 10 lbs.).