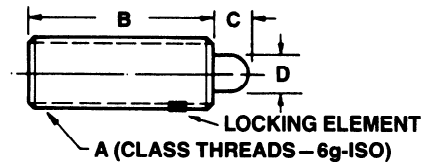




VLIER

Metric Spring Plungers



ROUND NOSE

Spring forces are accurate, uniform and dependable. Large bearing surface on plunger prevents binding, assures perfect alignment of the plunger at any extension. Bodies are made of steel and have a black oxide finish. Noses are case hardened.

METRIC HEAVY END FORCE

PART NO.	END FORCE, KGS (LBS.)		A	B mm (Inches)	C mm (Inches)	D mm (Inches)	USE WRENCH
	INITIAL	FINAL					
SM-6	1.36 (3.0)	5.9 (13.0)	M6 x 1	25.4 (1.00)	4.83 (.19)	3.00-3.02 (.118-.119)	VW-52
SM-8	1.36 (3.0)	6.8 (15.0)	M8 x 1.25	25.4 (1.00)	4.83 (.19)	3.40-3.43 (.134-.135)	VW-56
SM-10	2.5 (5.5)	6.6 (14.5)	M10 x 1.50	28.7 (1.13)	4.83 (.19)	4.70-4.72 (.185-.186)	VW-58
SM-12	3.0 (6.6)	7.9 (17.4)	M12 x 1.75	31.75 (1.25)	6.35 (.25)	6.27-6.30 (.247-.248)	VW-60

When ordering with locking element, add "N" at the end of the part number. (See nylon locking torque information)



ROUND SILVERNOSER[®]

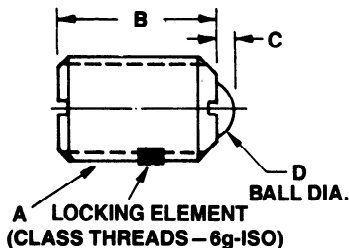
Zinc plated plunger noses identify Vlier Silvernose spring plungers as having light end forces. Special springs were developed for fast, repetitive operations...**designed to flex thousands of times.** Bodies are made of steel and have a black oxide finish. Noses are case hardened.

METRIC LIGHT END FORCE

PART NO.	END FORCE, KGS (LBS.)		A	B mm (Inches)	C mm (Inches)	D mm (Inches)	USE WRENCH
	INITIAL	FINAL					
SML-6	.45 (1.0)	1.8 (4.0)	M6 x 1	25.4 (1.00)	4.83 (.19)	3.00-3.02 (.118-.119)	VW-52
SML-8	.68 (1.5)	2.05 (4.5)	M8 x 1.25	25.4 (1.00)	4.83 (.19)	3.40-3.43 (.134-.135)	VW-56
SML-10	1.27 (2.8)	3.27 (7.2)	M10 x 1.50	28.7 (1.13)	4.83 (.19)	4.70-4.72 (.185-.186)	VW-58
SML-12	1.23 (2.7)	4.23 (9.3)	M12 x 1.75	31.75 (1.25)	6.35 (.25)	6.27-6.30 (.247-.248)	VW-60

When ordering with locking element, add "N" at the end of the part number. (See nylon locking torque information on

Metric Ball Plungers



METRIC BALL PLUNGERS

Easily installed from either end with a Vlier wrench. Standard balls are made of type 440C stainless steel. Bodies are steel and color-coded to indicate end forces: zinc plated=light force; black=standard force; gold=heavy force.

PART NO.	COLOR CODE	END FORCE, KGS (LBS.)		A	B mm (Inches)	C mm (Inches)	D mm (Inches)	USE WRENCH
		INITIAL	FINAL					
BM-4	Plain	0.25 (.55)	0.50 (1.10)	M4 x 0.7	9.00 (.354)	0.60 (.024)	2.50 (.098)	VW-50
BM-6	Black	0.70 (1.54)	1.30 (2.87)	M6 x 1	13.00 (.512)	0.60 (0.24)	2.50 (.098)	VW-52
BML-6	Cad.	0.25 (.55)	0.70 (1.54)					
BMH-6	Gold	1.75 (3.86)	4.00 (8.82)					
BM-8	Black	1.75 (3.86)	4.00 (8.82)	M8 x 1.25	15.00 (.590)	1.00 (.39)	4.00 (.157)	VW-56
BML-8	Cad.	1.00 (2.21)	2.00 (4.41)					
BMH-8	Gold	2.75 (6.06)	7.75 (17.09)					
BM-10	Black	2.25 (4.96)	4.50 (9.92)	M10 x 1.5	16.00 (.630)	1.20 (.047)	5.00 (.197)	VW-58
BML-10	Cad.	1.13 (2.49)	2.25 (4.96)					
BMH-10	Gold	2.75 (6.06)	9.50 (20.94)					
BM-12	Black	2.75 (6.06)	5.50 (12.13)	M12 x 1.75	20.00 (.787)	1.80 (.071)	7.00 (.276)	VW-60
BML-12	Cad.	1.38 (3.04)	2.75 (6.06)					
BMH-12	Gold	2.75 (6.06)	13.50 (29.76)					

When ordering with locking element, add "N" at the end of part number except BM-4, add "P" at end of number. (See nylon locking torque information)