

Ball Buttons

Steel, for Spring Plungers

SPECIFICATION

Steel
hardened and ground

INFORMATION

Ball buttons GN 249.1 are mainly used with spring plungers when low wear and exact positioning are needed. To achieve optimal locking of the spring plungers, the maximum distance **a** between the ball button and the spring plunger should not be exceeded. The maximum distance **a** is calculated from the difference between the compression **w** of the selected plunger and the indentation depth **s** of the ball in the recess.

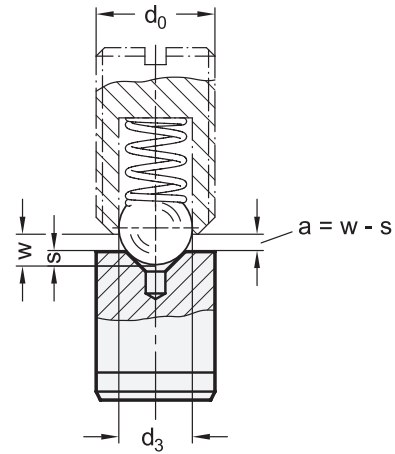
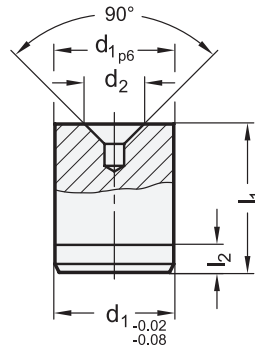
These ball buttons are especially recommended for use with spring plungers with high spring loads.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)



Application example



GN 249.1

Description	d1 p6	d2	d3 Ball-Ø spring ±0.05 plunger	l1	l2	s≈ GN 615 GN 615.2 GN 615.3 GN 615.5 GN 815 GN 815.1	s≈ GN 615.8	s≈ GN 614 GN 614.2 GN 614.5	s≈ GN 614.3	s≈ GN 614.8	s≈ GN 615.1 GN 615.4	s≈ GN 616 GN 616.1	w Compression	
GN 249.1-4-1.8	4	1.8	*	5	1.5	M 4=0.4	M 6=0.4	Ø 3=0.4	Ø 3.5=0.4	Ø 5=0.4	M 5=0.4	M 5=0.4	*	1
GN 249.1-6-2.5	6	2.5	*	8	1.5	M 5=0.7 M 6=0.5	M 8=0.5	Ø 4=0.7 Ø 5=0.4	Ø 4=0.7 Ø 5=0.5	Ø 6=0.5	M 6=0.8 M 8=0.5	M 6=0.8 M 8=0.5	*	2
GN 249.1-8-3.5	8	3.5	*	10	2	M 8=0.8	M 10=0.9	Ø 6=0.7	Ø 6=0.8	Ø 8=1.5	M 10=0.8	M 10=1	*	4
GN 249.1-10-4.5	10	4.5	*	12	2	M 10=0.8	M 12=0.9	Ø 8=0.9	Ø 8=1	Ø 10=0.9	M 12=1	M 12=1	*	7
GN 249.1-12-6	12	6	*	14	2.5	M 12=1.4	M 16=1.2	Ø 10=1.4	Ø 10=1.4	Ø 12=1.2	M 16=1.2	M 16=1.5	*	12
GN 249.1-16-7.5	16	7.5	*	18	2.5	M 16=1.7	-	Ø 12=1.7	Ø 12=1.7	-	M 20=1.7	M 20=1.7	*	27
GN 249.1-20-8.5	20	8.5	*	22	3	M 20=1.8	-	-	-	-	M 24=1.6	-	*	52

* see spring plunger