

- Use this for the recipient that requires abrasion resistance and accurate locating.
- Especially effective for plungers for heavy load.
- It can be used for pin type plungers, as well as ball type plungers.
- For applicable ball button, please refer to each product page of the plungers.
- Heat treatment and polishing applied. It is easy to press fit or press.
- Machine the holes for ball button **BB** mounting so that they are transition fit or stationary fit.
- Material/Finish



BB	
Main body	SK4 (hardness: 60 - 62 HRC) - Polishing

Unit : mm

Part Number	A	L	L ₁	B	Mass (g)
BB-4	4	5	2	1.5	0.5
BB-5	5	6	2	2	1
BB-6	6	8	2	2	2
BB-8	8	10	2	3	4
BB-10	10	12	3	4	6.5
BB-12	12	14	3	6	12
BB-16	16	18	3	8	26

• **Effective stroke s_1 formula**

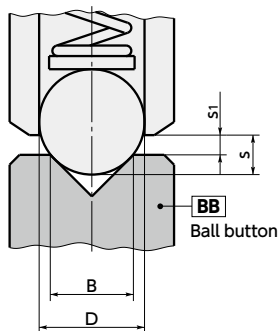
• If $D \leq \sqrt{2} B$

$$s_1 = s - \left(\frac{D+B}{2} - \frac{\sqrt{2}}{2} D \right)$$

• If $D > \sqrt{2} B$

$$s_1 = s - \frac{D - \sqrt{D^2 - B^2}}{2}$$

- s_1 : Effective stroke
- s : Total stroke of the plunger
- D : Diameter of plunger ball or pin
- B : Diameter of recipient hole of the ball button **BB**



• **Part number specification**

BB - 4
Product Code

Cleanroom Wash & Packaging → P.xxxx	Vibration Resistant → P.xxxx	Laser Marking → P.xxxx
Not Available	Not Available	Not Available