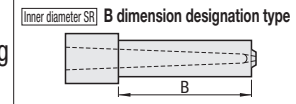


# PIN-POINT GATE BUSHINGS INNER DIAMETER SR

—STANDARD • HIGH HARDNESS B DIMENSION DESIGNATION TYPE—



Ⓜ Non JIS material definition is listed on P.1351 - 1352

**RoHS** **Shape 1A**

$(L-C-B) \geq 3.0$

\*This bushing has a flat area of 0~0.1 on its tip (P dimension).

**RoHS** **Shape 2A**

$(L-B) \geq 3.0$

\*This bushing has a flat area of 0~0.1 on its tip (P dimension).

**RoHS** **Shape 3A**

$(L-C-B) \geq 3.0$

\*This bushing has a flat area of 0~0.1 on its tip (P dimension).

**RoHS** **Shape 4A**

$(L-C-B) \geq 3.0$

$R \geq \sqrt{(P/2)^2 + C^2}$

$V = 2 \times \sqrt{R^2 - (\sqrt{R^2 - (P/2)^2} - C)^2}$

\*This bushing has a flat area of 0~0.1 on its tip (P dimension).

**RoHS** **Shape 5A**

$(L-C-B) \geq 3.0$

\*This bushing has a flat area of 0~0.1 on its tip (P dimension).

Please use the D dimension designation type PGED and PGKD (P.859), if D dimension is designated.

H	G	SR	Part Number		D	L 0.01mm increments	P	A <sup>°</sup>	B 0.01mm increments	None for 2A C 0.1mm increments	Shape 1A only V 0.1mm increments	Shape 3A only S <sup>°</sup> 1° increments	Shape 4A only R 0.1mm increments						
			Type	Shape															
3	0.7	0.60	PGE	1A	2	6.00~20.00	0.3 0.4	1	3.00~ 5.00	0.2~0.4	1.3~1.9		0.4~0.8						
														2	2	4.00~ 6.00	0.2~0.5	1.5~2.4	0.6~1.0
														3	3	5.00~ 7.00			
4	1.0	0.75	PGE	2A	2.5	8.00~25.00	0.3 0.4 0.5	1	4.00~ 6.00	0.2~0.5	1.5~2.4		0.6~1.0						
														2	2	5.00~ 7.00			
														3	3	5.00~ 7.00			
5	1.2	1.00	PGK	3A	3	10.00~40.00	0.5 0.6 0.7 0.8 0.9 <sup>(*)</sup>	1	5.00~ 9.00	0.3~0.8	2.0~2.9		1~1.5						
														2	2	5.00~ 8.00			
														3	3	5.00~ 7.00			
6	1.25	1.00	PGK	4A	4	10.00~40.00	0.6 0.7	1	5.00~30.00	0.3~0.8	2.5~3.9		0.8~1.5						
														2	2	5.00~30.00			
														3	3	5.00~30.00			
8	1.25	1.50	PGK	5A	5	15.00~80.00 <sup>(*)</sup>	0.8 0.9 1.0	1	5.00~30.00	0.5~1.5	3.5~4.9		1.0~2.0						
														2	2	5.00~30.00			
														3	3	5.00~20.00			
9	1.5	1.50	PGK	6A	6	15.00~80.00 <sup>(*)</sup>	1.2 1.4 1.5 <sup>(*)</sup> 1.6 <sup>(*)</sup> 1.8 <sup>(*)</sup>	1	5.00~35.00	0.5~1.5	4.0~5.9		1~1.5						
														2	2	5.00~30.00			
														3	3	5.00~30.00			
11	1.50	2.00	PGK	8A	8	15.00~80.00 <sup>(*)</sup>	1.2 1.4 1.5 <sup>(*)</sup>	1	5.00~50.00	0.5~1.5	4.5~7.9		1~1.5						
														2	2	5.00~50.00			
														3	3	5.00~30.00			

(\*1) PGK will be available for maximum L demension as 60. (\*2) When P0.9(D3), G is 1.0. (\*3) When P1.5(D5 · D6 · D8) · P1.6(D6), G is 1.2. (\*4) When P1.8(D8), G is 1.1. (\*5) When P1.8(D6) · P2.0(D8), G is 0.8. For shape 4A,  $R \geq \sqrt{(P/2)^2 + C^2}$ . (\*4)(\*5) P1.8 · P2.0 are not available for PGK.

**Order** **Part Number** - L - P - A - B - C V S R

**Example** PGE1A4 - 20.01 - P0.8 - A2 - B15.00 - C0.5-V3.0

**Days to Ship** **Quotation**

**Price** **Quotation**

**Alterations** **Part Number** - L - P - A - B - C V S R - (CC · LKC)

**Example** PGE1A4 - 20.01 - P0.8 - A2 - B15.00 - C0.5-V3.0 - CC

Alterations	Code	Spec.	1 Code
	CC	C chamfering for inlay relief. D2 · 2.5 → C0.2 D3 · 4 → C0.3 D5~8 → C0.5	
	LKC	Changes the tolerances of the dimensions below. 1A (L-C-B) -0.05 ... -0.02 4A (L-C) +0.05 ... +0.02 2A (L-B) -0.05 ... -0.02 L +0.05 ... +0.02 3A (L-C-B) -0.05 ... -0.02 5A The tolerance of L-C remains +0.05 unchanged.	<b>Quotation</b>

• Calculation for the inlet diameter \*α

$\alpha = 2SR + 2(L-G-SR)\tan\frac{A}{2}$

The dimension acquired using the above calculation is the theoretical (reference) value.

Part Number	Type	M	H
PGE□A	Standard	Nickel alloy	(Inside) 55~60HRC depth: 0.5 (Outside) 40~45HRC
PGK□A	High hardness	Nickel alloy	58~62HRC (The inner and outer surface have the same hardness)