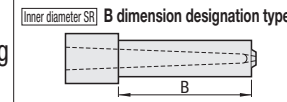


# PIN-POINT GATE BUSHINGS INNER DIAMETER SR

—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 2 3	3.00~ 5.00	0.2~0.4	1.3~1.9		0.4~0.8												
														4	1.0	0.75	2.5	8.00~25.00	0.3 0.4 0.5	1 2 3	4.00~ 6.00	0.2~0.5	1.5~2.4		0.6~1.0
6	1.25	1.00	4			0.6 0.7	1 2 3	5.00~30.00 5.00~20.00 5.00~30.00	0.3~0.8	2.5~3.9	1~45	0.8~1.5													
													8	1.25	1.50	5			0.8 0.9 1.0	1 2 3	5.00~30.00 5.00~30.00 5.00~20.00	3.5~4.9		1.0~2.0	
																									9
11	1.50	2.00	8			1.0	1 2 3	5.00~50.00 5.00~50.00 5.00~20.00	4.5~7.9	1~60	2.0~4.0														
												1.25	1.50	5			1.2 1.4 1.5 <sup>(*)</sup>	1 2 3	5.00~30.00 5.00~30.00 5.00~20.00	1.0~2.0					
																							1.50	2.00	6

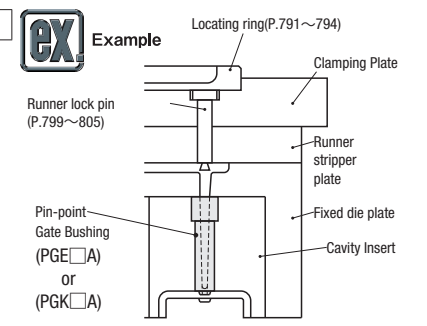
(\*1) PGK will be available for maximum L demension as 60.  
 (\*2) When P0.9(D3), G is 1.0.  
 (\*3) When P1.5(D5 · D6 · D8) · P1.6(D6), G is 1.2.  
 (\*4) When P1.8(D8), G is 1.1.  
 (\*5) When P1.8(D6) · P2.0(D8), G is 0.8.  
 For shape 4A,  $R \geq \sqrt{(P/2)^2 + C^2}$   
 (\*4)(\*5) P1.8 · P2.0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

**Order**

Part Number	L	P	A	B	C	V	S	R
PGE1A4	20.01	P0.8	A2	B15.00	C0.5	V3.0		
PGE2A4	20.01	P0.8	A2	B15.00				
PGE3A4	20.01	P0.8	A2	B15.00	C0.5	S30		
PGE4A4	20.01	P0.8	A2	B15.00	C0.5	R1.0		
PGE5A4	20.01	P0.8	A2	B15.00	C0.5			

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

**Price** **Quotation**



**Alterations**

Part Number: PGE1A4 - L - P - A - B - C - V - S - R - (CC · LKC)

Alterations: PGE1A4 - L - P - A - B - C - V - S - R - (CC · LKC)

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 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 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	55~62HRC (The inner and outer surface have the same hardness)