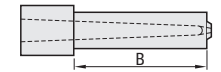


PIN-POINT GATE BUSHINGS

Inner diameter SR

— B DIMENSION DESIGNATION TYPE — NORMAL TYPE • TIP CORNER ACUTE ANGLE TYPE

Inner diameter SR B dimension designation type



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

RoHS **Shape 1A**

Electro discharge finishing (is applied on the SR area.) SR

Enlarged view of the tip *

*This bushing has a flat area of 0~0.2 (PGH) 0~0.05(PGHZ) on its tip (P dimension).

Type	P
PGH	±0.01
PGHZ	±0.02

Ⓢ (L-C-B) ≥ 3.0

RoHS **Shape 2A**

Electro discharge finishing (is applied on the SR area.) SR

Enlarged view of the tip *

*This bushing has a flat area of 0~0.2 (PGH) 0~0.05(PGHZ) on its tip (P dimension).

Type	P
PGH	±0.01
PGHZ	±0.02

Ⓢ (L-B) ≥ 3.0

RoHS **Shape 3A**

Electro discharge finishing (is applied on the SR area.) SR

Enlarged view of the tip *

*This bushing has a flat area of 0~0.2 (PGH) 0~0.05(PGHZ) on its tip (P dimension).

Type	P
PGH	±0.01
PGHZ	±0.02

Ⓢ (L-C-B) ≥ 3.0

RoHS **Shape 4A**

Electro discharge finishing (is applied on the SR area.) SR

Enlarged view of the tip *

*This bushing has a flat area of 0~0.2 on its tip (P dimension).

Type	P
PGH	±0.01
PGHZ	±0.02

Ⓢ (L-C-B) ≥ 3.0

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

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

RoHS **Shape 5A**

Electro discharge finishing (is applied on the SR area.) SR

Enlarged view of the tip *

*This bushing has a flat area of 0~0.2 on its tip (P dimension).

Type	P
PGH	±0.01
PGHZ	±0.02

Ⓢ (L-C-B) ≥ 3.0

• Calculation for the inlet diameter * $\alpha = 2SR + 2(L-G-SR)\tan \frac{A}{2}$

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

Part Number	Material	Hardness
PGH□A PGHZ□A	SKH51	59~61HRC

H	G	SR	Part Number		L 0.01mm increments	P	A°	K°	B 0.01mm increments	None for 2A) C 0.1mm increments	Shape 1A only) V 0.1mm increments	Shape 3A only) S° 1° increments	Shape 4A only) R 0.1mm increments		
			Type	Shape											
3	0.7	0.60	PGH	1A	2	6.00~20.00	0.3 0.4 0.5 ^{(*)1}	1	20	3.00~ 5.00	0.2~0.4	1.3~1.9	0.4~0.8		
														3	
															4
3															
	5	1.00	1.00	PGH	1A	3	10.00~40.00	0.5 0.6 0.7 0.8 0.9 ^{(*)2}	1	30	5.00~ 9.00	0.3~0.8	2.0~2.9	0.8~1.5	
2															
															3
6	1.2	1.00	PGH	2A	4	10.00~40.00	0.6 0.7	1	30	5.00~30.00	0.3~0.8	2.5~3.9	1~45		
														2	
															3
8	1.25	1.25	PGHZ	3A	5	15.00~60.00	0.8 0.9 1.0	1	30	5.00~30.00	0.3~0.8	3.5~4.9	1.0~2.0		
														2	
															3
9	1.5	1.50	PGHZ	(4A) ^{(*)4}	6	15.00~60.00	1.2 1.3 1.4 1.5 ^{(*)3} 1.6 ^{(*)3}	1	30	5.00~30.00	0.5~1.5	4.0~5.9	1~50	1.5~3.0	
															2
11	1.50	2.00	PGHZ	(5A) ^{(*)4}	8	15.00~60.00	1.2 1.3 1.4 1.5 1.6	1	30	5.00~50.00	0.5~1.5	4.5~7.9	1~60	2.0~4.0	
															2

Ⓢ For shape 4A, $R \geq \sqrt{(P/2)^2 + C^2}$
 (*)1 P0.5 (D2) • For P0.6 (D2.5), only K20° can be selected. (*)3 When P1.5 • P1.6 (D5 • D6) and K30° , G is 1.2.
 (*)2 When P0.9 (D3) and K30° , G is 1.0. (*)4 Shape () is only for PGH.



Order

Part Number	L	P	A	K	B	C	V	S	R
PGH1A4	-20.01	-P0.8	-A2	-K30	-B15.00	-C0.5	-V3.0		
PGHZ2A4	-20.01	-P0.8	-A2	-K30	-B15.00				
PGHZ3A4	-20.01	-P0.8	-A2	-K30	-B15.00	-C0.5	-S30		
PGH4A4	-20.01	-P0.8	-A2	-K30	-B15.00	-C0.5	-R1.0		
PGH5A4	-20.01	-P0.8	-A2	-K30	-B15.00	-C0.5			



Price

Quotation



Days to Ship

Quotation

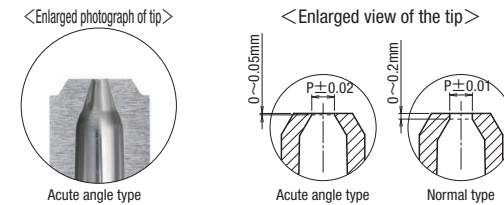


Alterations

Part Number	L	P	A	K	B	C	V	S	R	CC	CVC
PGH1A4	-20.01	-P0.8	-A2	-K20	-B15.00	-C0.5	-V3.0			-CC	-CVC0.3

Alterations	Code	Spec.	1Code
	PKC	Changes P dimension tolerance. P±0.02 → ±0.01 Ⓢ Only applicable for PGHZ.	Quotation
	CC	C chamfering for inlay relief. D2 • 2.5 → C0.2 D3 • 4 → C0.3 D5~8 → C0.5	
	CVC	C chamfering for inlay relief. CVC=0.1mm increments 0.2 ≤ CVC < $\frac{(H-D)}{2} - 0.1$	

Characteristics



Normal type

- It has a flat area of 0~0.2mm on its tip.
- P dimension tolerance is ±0.01.

Acute angle type

- It has a flat area of 0~0.05mm on its tip.
- P dimension tolerance is ±0.02.
- With the straight part shorter than the normal type, the gate residual can be suppressed but durability may be decreased.

