

PIN-POINT GATE BUSHINGS WITH HEAD INNER DIAMETER SR

—B DIMENSION SELECTION TYPE—

Inner diameter SR Head type



① Non JIS material definition is listed on P.1351 - 1352

	Shape 1A	<p>RoHS</p> <p>Electro discharge finishing SR is applied on the SR area.</p> <p>Dimensions: H=0.03, D₂=0.05, R≤0.2, G=0.01, P=0.05, C=±0.05, L=4.0, (L-C-B)=0.1, (L-C)=0.02, Eccentricity between D and P is 0.05 or less, Eccentricity between D and V is 0.05 or less.</p> <p>Enlarged view of the tip:</p> <p>*This bushing has a flat area of 0~0.2 on its tip (P dimension).</p>
	Shape 2A	<p>RoHS</p> <p>Electro discharge finishing SR is applied on the SR area.</p> <p>Dimensions: H=0.03, D₂=0.05, R≤0.2, G=0.01, P=0.05, C=±0.05, L=4.0, (L-B)=0.1, (L-B)=0.02, Eccentricity between D and P is 0.05 or less.</p> <p>Enlarged view of the tip:</p> <p>*This bushing has a flat area of 0~0.2 on its tip (P dimension).</p>
	Shape 3A	<p>RoHS</p> <p>Electro discharge finishing SR is applied on the SR area.</p> <p>Dimensions: H=0.03, D₂=0.05, R≤0.2, G=0.01, P=0.05, C=±0.05, L=4.0, (L-C-B)=0.1, (L-C)=0.05, Eccentricity between D and P is 0.05 or less.</p> <p>Enlarged view of the tip:</p> <p>*This bushing has a flat area of 0~0.2 on its tip (P dimension).</p>
	Shape 4A	<p>RoHS</p> <p>Electro discharge finishing SR is applied on the SR area.</p> <p>Dimensions: H=0.03, D₂=0.05, R≤0.2, G=0.01, P=0.05, C=±0.05, L=4.0, (L-C-B)=0.1, (L-C)=0.02, Eccentricity between D and P is 0.05 or less.</p> <p>Enlarged view of the tip:</p> <p>*This bushing has a flat area of 0~0.2 on its tip (P dimension).</p> <p>① $R \geq \sqrt{(P/2)^2 + C^2}$ ② $V = 2 \times \sqrt{R^2 - (R^2 - (P/2)^2 - C^2)}$</p>
	Shape 5A	<p>RoHS</p> <p>Electro discharge finishing SR is applied on the SR area.</p> <p>Dimensions: H=0.03, D₂=0.05, R≤0.2, G=0.01, P=0.05, C=±0.05, L=4.0, (L-C-B)=0.1, (L-C)=0.05, Eccentricity between D and P is 0.05 or less.</p> <p>Enlarged view of the tip:</p> <p>*This bushing has a flat area of 0~0.2 on its tip (P dimension).</p>

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

① The dimension acquired using the above calculation is the theoretical (reference) value.

Part Number	M	H
PGHT□A	SKH51	59~61HRC

H	D ₂	G	B	SR	Part Number		L 0.01mm increments	P	A°	K°	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								
6	3	0.7	3	0.60	1A	2	10.00~20.00	0.3 0.4 0.5 ⁽¹⁾	20	20	0.2~0.4	1.3~1.9	1~45	0.4~0.8
7	4	1.0	4	0.75	2A	2.5	10.00~25.00	0.3 0.4 0.5 0.6 ⁽¹⁾	20	20	0.2~0.5	1.5~2.4	1~45	0.6~1.0
8	5		6	1.00	3A	3	20.00~40.00	0.5 0.6 0.7 0.8 0.9 ⁽²⁾	20	20	0.3~0.8	2.0~2.9	1~45	0.8~1.5
9	6	1.2	6	1.00	4A	4	20.00~40.00	0.6 0.7	20	20	0.8 0.9 1.0 1.1 1.2	2.5~3.9	1~45	1.0~2.0
11	8		10	1.25 (High Speed Steel) SKH51	5A	5	20.00~60.00	0.8 0.9 1.0 1.2 1.3 1.4 1.5 ⁽³⁾ 1.6 ⁽³⁾	30	30	0.5~1.5	3.5~4.9	1~50	1.5~3.0
12	9	1.5	10	1.25 1.50	6	6	20.00~60.00	1.0 1.2 1.3 1.4 1.5 ⁽³⁾ 1.6 ⁽³⁾	30	30	0.5~1.5	4.0~5.9	1~60	2.0~4.0
14	11			2.00		8		1.5 1.6						

(*1) When P0.5(D2) • P0.6(D2.5), only K20° can be selected.

(*2) When P0.9(D3) and K30°, G is 1.0.

① For shape 4A, $R \geq \sqrt{(P/2)^2 + C^2}$

(*3) When P1.5 • P1.6(D5 • D6) and K30°, G is 1.2.



Order

Part Number — L — P — A — K — C V S R

PGHT1A4 — 35.01 — P0.8 — A2 — K30 — C0.5 — V3.0
 PGHT2A4 — 35.01 — P0.8 — A2 — K30 — C0.5 — S30
 PGHT3A4 — 35.01 — P0.8 — A2 — K30 — C0.5 — S30
 PGHT4A4 — 35.01 — P0.8 — A2 — K30 — C0.5 — R1.0
 PGHT5A4 — 35.01 — P0.8 — A2 — K30 — C0.5



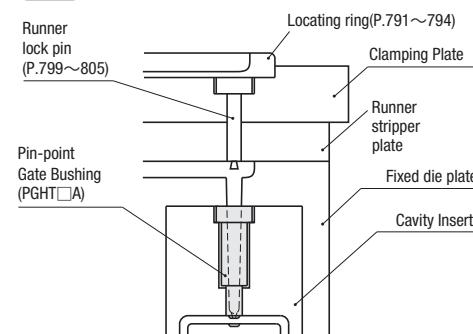
Quotation



Quotation



Example



■ Characteristics

Pin-point gate bushings with head are capable of positioning at depth amount of counterbore of the head in vertical direction.



Part Number — L — P — A — K — C V S R — (CC • CVC • etc.)

PGHT1A4 — 35.01 — P0.8 — A2 — K30 — C0.5 — V3.0 — CC

Alterations	Code	Spec.	1Code
C±0.1	CC	C chamfering for inlay relief. D2 • 2.5 → C0.2 D3 • 4 → C0.3 D5~8 → C0.5	Quotation
CVC±0.05	CVC	C chamfering for inlay relief. CVC=0.1mm increments $0.2 \leq CVC < \frac{(D_2-D)}{2} - 0.1$	Quotation

Alterations	Code	Spec.	1Code
$D_2/2 - 0.02$	KC	Adds a single key flat on the head ② L<20 not available.	Quotation
$D_2/2 - 0.02$	WKC	Adds two parallel key flats on the head. ② L<20 not available.	Quotation