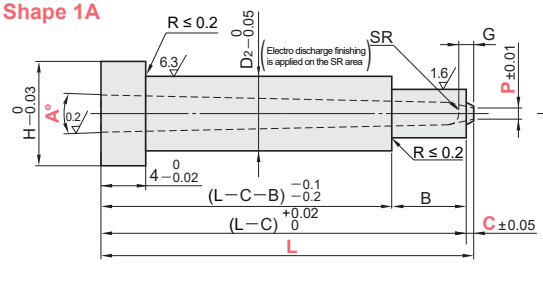
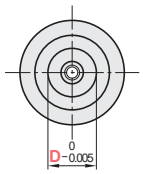
Shape 1A

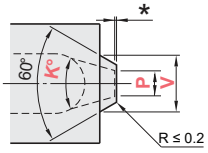




Eccentricity between D and P is 0.05 or less

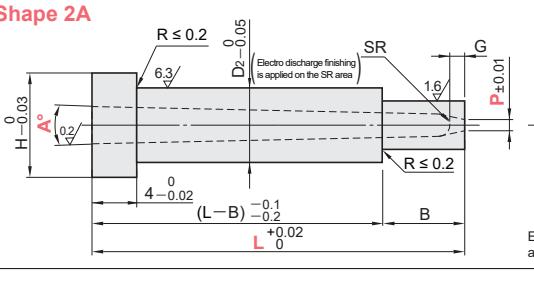
Eccentricity between D and V is 0.05 or less

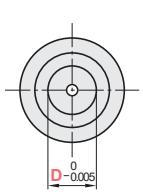
Enlarged view of the tip



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

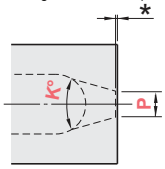
Shape 2A





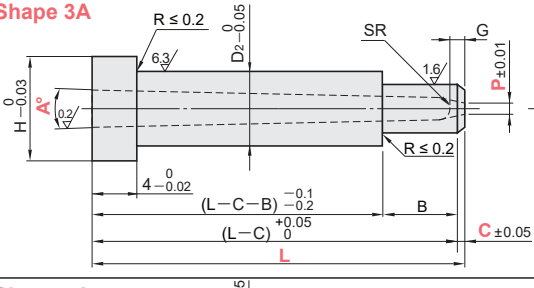
Eccentricity between D and P is 0.05 or less

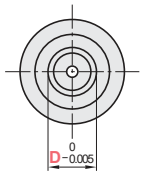
Enlarged view of the tip



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

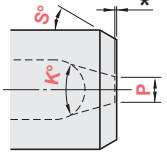
Shape 3A





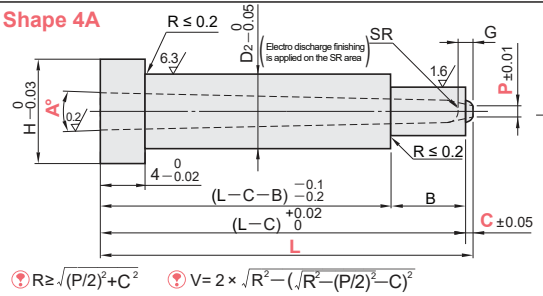
Eccentricity between D and P is 0.05 or less

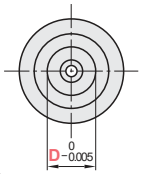
Enlarged view of the tip



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

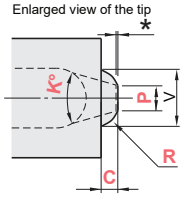
Shape 4A





Eccentricity between D and P is 0.05 or less

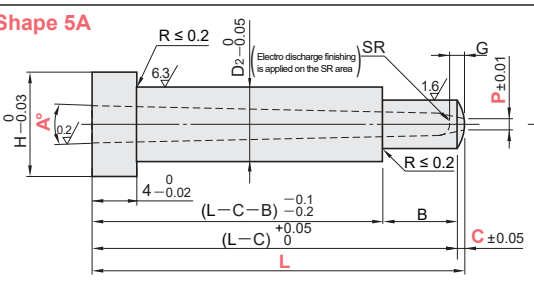
Enlarged view of the tip

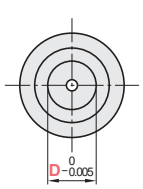


*This bushing has a flat area of 0~0.2 on itd tip (P dimension)

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

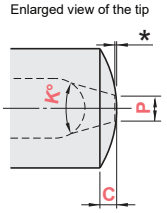
Shape 5A





Eccentricity between D and P is 0.05 or less

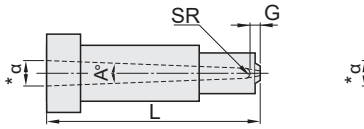
Enlarged view of the tip



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

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	M	H
PGHT□A	SKH51	59 ~ 61HRC

H	D_2	G	B	SR	Part Number Type	Shape	D	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
6	3	0.7	3	0.60	PGHT (High speed steel SKH51)	1A	2	10.00~20.00	0.3	0.4	0.5 (*1)			1	20	0.2 ~ 0.4	1.3 ~ 1.9	1 ~ 45	0.4 ~ 0.8
7	4	1.0	4	0.75			2.5	10.00~25.00	0.3	0.4	0.5	0.6 (*1)				0.2 ~ 0.5	1.5 ~ 2.4		0.6 ~ 1.0
8	5	1.2	6	1.00		2A	3	20.00~40.00	0.5	0.6	0.7	0.8	0.9 (*2)			0.3 ~ 0.8	2.0 ~ 2.9		0.8 ~ 1.5
9	6			1.00			4			0.6	0.7						2.5 ~ 3.9		
				1.25					0.8	0.9	1.0	1.1	1.2						
11	8	1.5	10	1.25		3A	5	25.00~60.00	0.8	0.9	1.0			2		0.5 ~ 1.5	3.5 ~ 4.9		1.0 ~ 2.0
				1.50					1.2	1.3	1.4	1.5 (*3)							
12	9			1.25		4A	6				1.0				30		4.0 ~ 5.9	1 ~ 50	1.5 ~ 3.0
				1.50					1.2	1.3	1.4	1.5 (*3)	1.6 (*3)						
14	11			1.50		5A	8		1.2	1.3	1.4			3			4.5 ~ 7.9	1 ~ 60	2.0 ~ 4.0
				2.00								1.5	1.6						

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

Order Example

TYPE	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	
PGHT3A4 -	35.01 -	P0.8 -	A2 -	K30 -	C0.5 - S3.0
PGHT4A4 -	35.01 -	P0.8 -	A2 -	K30 -	C0.5 - R1.0
PGHT5A4 -	35.01 -	P0.8 -	A2 -	K30 -	C0.5