

S45C
HPM1
equivalent

SPRUE BUSHINGS

—NORMAL BOLT TYPE · FLANGE THICKNESS 20mm—

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

Sprue Bushings
Locating Rings

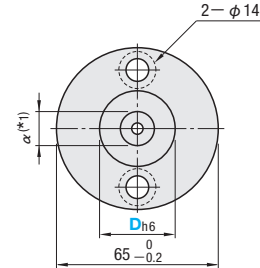
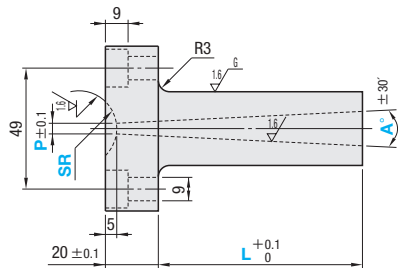
☉ Electroforming P.773

☉ Details of string eliminator P.747.

— Straight type —



Part Number		M	H
Normal	String eliminator type		
SBBF	SBBFH	S45C	—
SBBR	SBBRH	HPM1 equivalent	37~43HRC



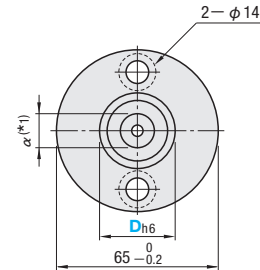
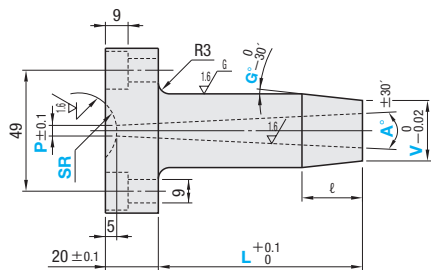
RoHS

☐ CB8—20 (2 pcs.)

— Tapered type —



Part Number		M	H
Normal	String eliminator type		
SBGF	SBGFH	S45C	—
SBGR	SBGRH	HPM1 equivalent	37~43HRC



RoHS

☐ CB8—20 (2 pcs.)

Dh6	Part Number Type	D	L 0.1mm increments	SR	P	A° 0.5° increments	V 0.1mm increments	G° 1° increments
20	—Straight type—	20		0	3			
	(S45C)				10.5			
25	—Tapered type—	25	30.0~200.0	11	4	2~4	D>V≥α+2	1~10
	(HPM1 equivalent)				12			
30	—Straight type—	30		13	5			
	(S45C)				16			
30	—Tapered type—	30		20	6			
	(HPM1 equivalent)				21			
				23	8			

(*1) The value of α is set in accordance with L dimension.

☉ Working limits
• Straight type
• Tapered type

$D - \alpha \geq 2$ (Calculation of α value) $\alpha = P + 2(L + (U) + 15) \tan \frac{A}{2}$
 $V - \alpha \geq 2$ U: with ZC alteration
 $L - \ell \geq 3$ (Calculation of ℓ value) $\ell = \frac{D - V}{2 \tan(G - 0.25)}$

Conversion Chart of Trigonometric Functions P.1337

※0.25 is a value that takes G tolerance into account.



Order

Part Number	L	SR	P	A	V	G
SBBF25	150.3	SR11	P3	A2		
SBGF25	100.0	SR16	P3.5	A2	V22.0	G8



Days to Ship

Quotation



Price

Quotation



Alterations

Part Number — L — SR — P — A — V — G — (AIW · BC··etc.)
 SBGF25 — 100.0 — SR16 — P3.5 — A2 — V22.0 — G5 — AIW5—GC7—BC

Alterations	Code	AIW	AHW	AXW	ATW	AJW	ALW	APW	Spec.																					
Shape A (Trapezoid)	Spec.								Designation method AIW10—GC7 + Bolt hole position • Dowel hole position (When NC, KP code is used)																					
	1Code	Quotation							• W dimension and GC° selection <table border="1"> <thead> <tr> <th>W</th> <th>t</th> <th>GC°</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>2.5</td> <td>7°</td> </tr> <tr> <td>4</td> <td>3</td> <td>10°</td> </tr> <tr> <td>5</td> <td>3.5</td> <td></td> </tr> <tr> <td>6</td> <td>4</td> <td></td> </tr> <tr> <td>8</td> <td>5.5</td> <td></td> </tr> <tr> <td>10</td> <td>7</td> <td></td> </tr> </tbody> </table>	W	t	GC°	3	2.5	7°	4	3	10°	5	3.5		6	4		8	5.5		10	7	
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		☒ Combination with ZC not available. ☉ ATW, AJW, ALW and APW have working limits as follows. ☒ Combination with RC not available. (α - 0.4) ≥ W ☉ The trapezoidal taper angle, which was previously fixed at 10°, is now selectable from 10° and 7°.																												
		Designation method AHW4—GC7 "Specify in the sequence (shape) (W dimension)—GC°". If you do not make a specification, (AHW4, for example) will be 10°.																												
Alterations	Code	BIR	BHR	BXR	BTR	BJR	BLR	BPR	Spec.																					
Shape B (Semicircle)	Spec.								Designation method BXR2 + Bolt hole position • Dowel hole position (When NC, KP code is used)																					
	1Code	Quotation							• R dimension selection <table border="1"> <tbody> <tr><td>1</td></tr> <tr><td>1.25</td></tr> <tr><td>1.5</td></tr> <tr><td>1.75</td></tr> <tr><td>2</td></tr> <tr><td>2.25</td></tr> <tr><td>2.5</td></tr> <tr><td>3</td></tr> <tr><td>3.5</td></tr> <tr><td>4</td></tr> </tbody> </table>	1	1.25	1.5	1.75	2	2.25	2.5	3	3.5	4											
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Alterations	Code	CIQ	CHQ	CXQ	CTQ	CJQ	CLQ	CPQ	Spec.																					
Shape C (Arc+Tangent)	Spec.								Designation method CTQ5 + Bolt hole position • Dowel hole position (When NC, KP code is used)																					
	1Code	Quotation							• Q dimension selection <table border="1"> <tbody> <tr><td>2</td></tr> <tr><td>2.5</td></tr> <tr><td>3</td></tr> <tr><td>3.5</td></tr> <tr><td>4</td></tr> <tr><td>5</td></tr> <tr><td>6</td></tr> <tr><td>8</td></tr> </tbody> </table>	2	2.5	3	3.5	4	5	6	8													
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Alterations	Code	Spec.	1Code
	BC	Increases No. of bolt holes. No. of bolt holes : 2 → 4 (Supplied bolts : 4) ☒ Combination with NC not available.	
	BN	Decreases No. of bolt holes. No. of bolt holes : 2 → 0 (Supplied bolts : 0) ☒ Available for equivalent of material HPM1	
	NC	Dowel hole boring ☒ Not available for string eliminator type	Quotation
	KP	Dowel hole boring (longitudinal) ☒ Not available for string eliminator type ☒ Combination with NC not available. ☉ Available for equivalent of HPM1 only ☉ The effective length of dowel hole is 10mm below underhead part. (recessed hole φ6.5)	Quotation
	LKC	L dimension tolerance alteration $L + \frac{0}{0.1} \dots L - \frac{0}{0.02}$ ☉ L dimension can be designated at 0.01mm increments when LKC is used. ☒ Combination with ZC not available.	
	GKC	Changes the G tolerance. $G - \frac{0}{30} \dots G - \frac{0}{15}$ ☉ Available for tapered type when ℓ ≤ 15 and (L - ℓ) ≥ 10 ☒ Combination with ZC not available.	

Alterations	Code	Spec.	1Code
	KC	Single flange cutting KC = 0.5mm increments $D/2 \leq KC < 25$ ☒ Combination with BC not available ☒ Not available for string eliminator type ☒ Combination with NC · KP not available ☒ Interference with the SR part may occur.	
	WKC	Two parallel flange cutting WKC = 0.5mm increments $D/2 \leq WKC < 25$ ☒ Combination with BC not available ☒ Not available for string eliminator type ☒ Combination with NC · KP not available ☒ Interference with the SR part may occur.	Quotation
	ZC	Undercut machining S, T, U = 0.1mm increments $S \geq \alpha + 2$ $\alpha + 2 \leq T \leq D(V - 2) \tan \alpha$ $1.5 \leq U \leq 5$ $L \max. \leq L + U$ Designation method ZC—S3.5—T4.0—U2.0	Quotation
	RC	The step R is processed in the tip bore to prevent the connection between the sprue and the runner from breaking when releasing from the mold. Dimension selection of step R 1 2 ☉ The step R is cut with an inner R cutter. Surface roughness and position precision are not provided. ☉ Available for α ≥ 5 ☉ • Straight type D - α - (2 × RC) > 2 • Tapered type V - α - (2 × RC) > 2 ☒ Combination with shapes A, B and C not available. ☒ Combination with ZC not available.	