SPRUE BUSHINGS
—NORMAL BOLT TYPE • FLANGE THICKNESS15mm—

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

🖋 Electroforming ☞ P.773   🖋 Details of string eliminator ☞ P.747.
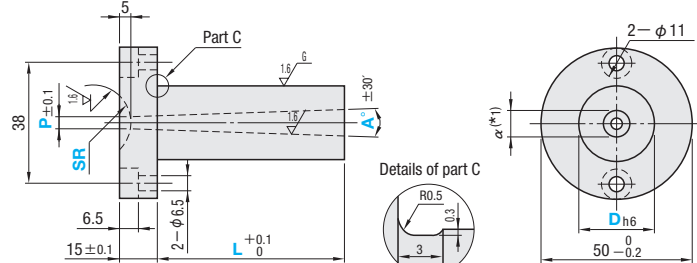
— Straight type —

Part Number		M	H
Normal	String eliminator type		
SBBH	SBBHH	HPM1 equivalent	37～43HRC
SBBT	SBBTH	SKD61	48～52HRC
SBBX	SBBXH	DC53	58～62HRC

RoHS

A CB6—15 (2 pcs.)

— Tapered type —

Part Number		M	H
Normal	String eliminator type		
SBGH	SBGHH	HPM1 equivalent	37～43HRC
SBGT	SBGTH	SKD61	48～52HRC
SBGX	SBGXH	DC53	58～62HRC

RoHS
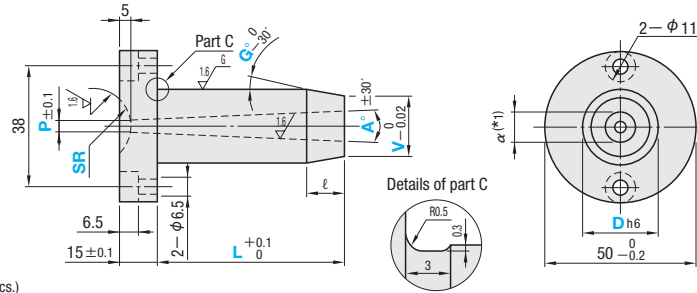
A CB6—15 (2 pcs.)

Dh6		Part Number Type	D	L(*2) 0.1mm increments	SR	P	A° 0.5° increments	V 0.1mm increments	G° 1° increments
16	0 −0.011	—Straight type— Normal / String eliminator type (HPM1 equivalent) SBBH SBBHH (SKD61) SBBT SBBTH (DC53) SBBX SBBXH	16	30.0～150.0(*5)	0(*6) 10.5 11	2(*3,4) 2.5(*3) 3(*3) 3.5	D>V≧α+2 1～4(*3)	Available for tapered type only	Available for tapered type only
20	0 −0.013	—Tapered type— Normal / String eliminator type (HPM1 equivalent) SBGH SBGHH (SKD61) SBGT SBGTH (DC53) SBGX SBGXH	20	30.0～200.0(*5)	12 13 16 20	4 4.5 5 5.5			1～10
25			25		21 23	6 6.5 7 8			

(*1) The value of α is set in accordance with L dimension.
(*2) L dimension is restricted by P, V and A. Similarly, G is restricted by L dimension.
(*4) Not available for products with string eliminator.
(*5) L dimension is up to 100.0 for SBBX・SBBXH・SBGX・SBGXH.
(*6) SR0 cannot be designated for SBBX・SBBXH・SBGX・SBGXH.

(*3) L dimension limits

P	2	2.5	3	3.5～4.5
A	1	1.5～4.0	1	1.5～4.0	1～1.5	1～1.5
L dimension limit	50	85	50	85	85	150

🖋 Working limits
· Straight type
D−α≧2 (Calculation of α value) α＝P+2{L+(U)+10}tan A/2   U : with ZC alteration
· Tapered type
V−α≧2
L−ℓ≧3 (Calculation of ℓ value) ℓ＝(D−V)/(2tan(G−0.25))   ※0.25 is a value that takes G tolerance into account.

Conversion Chart of Trigonometric Functions ☞ P.1337

Order

Part Number	—	L	—	SR	—	P	—	A	—	V	—	G
SBBH16	—	35.0	—	SR11	—	P3	—	A2				
SBGH25	—	100.0	—	SR16	—	P3.5	—	A2	—	V22.0	—	G8

Days to Ship   Quotation

P Price   Quotation

Alterations   Part Number — L — SR — P — A — V — G — (AIW・AXW…etc.)   Quotation
SBGHH25 — 99.98 — SR16 — P3.5 — A2 — V22.0 — G8 — AIW10−GC7−LKC

Alterations	Code	AIW	AHW	AXW	ATW	AJW	ALW	APW	Spec.
Shape A (Trapezoid)	Spec.								Designation method AIW10−GC7 · W dimension and GC° selection
	1Code				Quotation				

⊗ 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°.

W	t	GC°
3	2.5	
4	3	7°
5	3.5	
6	4	
8	5.5	10°
10	7	

Alterations	Code	BIR	BHR	BXR	BTR	BJR	BLR	BPR	Spec.
Shape B (Semicircle)	Spec.								Designation method BXR2 · R dimension selection
	1Code				Quotation				

⊗ Combination with ZC not available.   🖋 BTR, BJR, BLR and BPR have working limits as follows.
⊗ Combination with RC not available.   (α−0.4)≧2×R

R dimension selection: 1 / 1.25 / 1.5 / 1.75 / 2 / 2.25 / 2.5 / 3 / 3.5 / 4

Alterations	Code	CIQ	CHQ	CXQ	CTQ	CJQ	CLQ	CPQ	Spec.
Shape C (Arc+Tangent)	Spec.								Designation method CTQ5 · Q dimension selection
	1Code				Quotation				

⊗ Combination with ZC not available   🖋 CTQ, CJQ, CLQ and CPQ have working limits as follows.
⊗ Combination with RC not available.   (α−0.4)≧Q×1.09

Q dimension selection: 2 / 2.5 / 3 / 3.5 / 4 / 5 / 6 / 8

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) M 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)	
	LKC	L dimension tolerance alteration L +0.1/0 ⋯→ L 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 0/−30' ⋯→ G 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≦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≦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≧α+2 α+2≦T≦α0(V−2UtanG) 1.5≦U≦5 Specification L max.≧L+U Designation method ZC—S3.5−T4.0−U2.0	
	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 🖋 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.	