SUS420J2 equivalent SKD61

COOLING SPRUE BUSHINGS

—NORMAL BOLT TYPE • FLANGE THICKNESS 10MM—

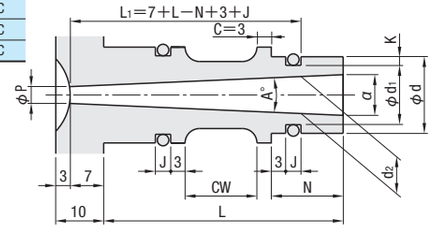
Non JIS material definition is listed on P.1351 - 1352

RoHS

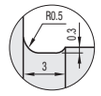
Part Number		M	H
Normal	String eliminator type		
SBCK	SBCKH	SUS420J2 equivalent	47～50HRC
SBCS	SBCSH		37～43HRC
SBCD	SBCDH	SKD61	48～52HRC

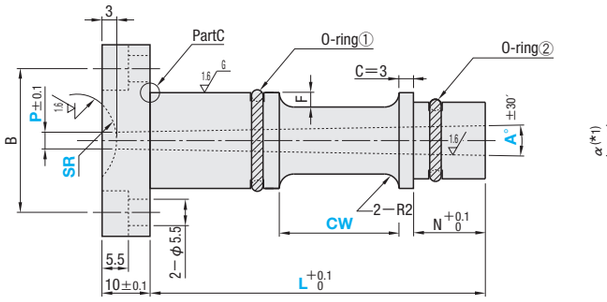
A
①②O-ring (one each)
③CB5—12 (two)

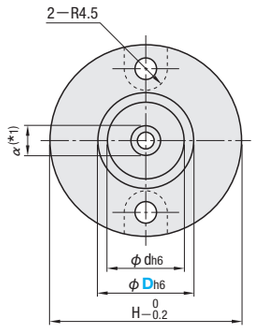
Sectional detail



Details of part C







H	B	O-ring ①	O-ring ②	Groove width J Part①	Groove width J Part②	Groove depth K Part①	Groove depth K Part②	N	d	F	Part Number Type	Part Number D	L 0.1mm increments	SR	P	A° 0.5° increments	Groove width CW 1mm increments
40	30	ORP12	NSF11.2	3.2	2.5	2	1	13	13	2	Normal SBCK SBCS SBCD	16	40.0～100.0	10.5 11 12 13 16 20	2 2.5 3 3.5	0.5～2	6～40
		ORP16	ORP12	3.2		2	2	16	16	2.5	String eliminator type SBCKH SBCSH SBCDH	20	40.0～150.0		2 2.5 3 3.5 4 4.5	0.5～3.5	CW dimension limit CW≦L−N−16

(*1) The value of α is set in accordance with L dimension.
(*2) L dimension is restricted by P and A.
(*3) L dimension limits

P	2			2.5			3～4.5	
A	0.5	1	1.5～3.5	0.5	1	1.5～3.5	0.5	1～1.5
L dimension limits	Not Available	50	85	45	50	85	60	150

Working limits
α=P+2(L+7)tan A/2
d1=d−2K
d2=P+2L1 • tan A/2
d2≦d1−4

Convercion chart of Trigono metric Functions P.1337

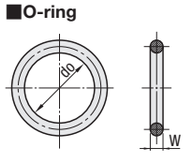
Order

Part Number	L	SR	P	A	CW
SBCK 20	50	SR11	P2	A2	CW10

Days to Ship: Quotation

■Characteristics
- The cycle time can be shortened by directly cooling the sprue bushing with cooling water.
- Use a stainless type if you are concerned about corrosion-resistance of SKD61.
- Water as well as air can be used for cooling. (Air jet cooler for mold)

■O-ring



Part Number	dO inner diameter	W (thickness)
NSF11.2	10.7	1.5
ORP12	11.8	2.4
ORP16	15.8	

- ORP P.1137
- NSF Published on FA Mechanical Standard Components Catalog.

Price: Quotation

Alterations: Part Number — L — SR — P — A — CW — (AIW・AXW…etc.)
SBCK 20 — 50 — SR11 — P2 — A2 — CW10 — AIW10—GC7—WKC25

Alterations	Code	AIW	AHW	AXW	ATW	AJW	ALW	APW	Spec.
Shape A (Trapezoid)	Spec.								Designation method AIW10—GC7 +Bolt hole position KC position (When KC code is used)
	1Code			Quotation					

This has the following making limit. (α−0.4)≧W
The trapezoidal taper angle is 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 dimension • GC° selection

D	W	t	GC°
16・20	3	2.5	7°
	4	3	
	5	3.5	
	6	4	
	8	5.5	10°
20	10	7	

Alterations	Code	BIR	BHR	BXR	BTR	BJR	BLR	BPR	Spec.
Shape B (Semicircle)	Spec.								Designation method BXR2 +Bolt hole position KC position (When KC code is used)
	1Code			Quotation					

This has the following making limit.
(α−0.4)≧2×R

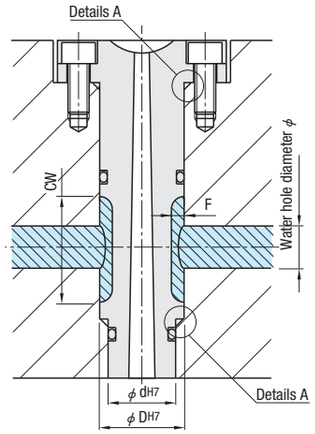
• R dimension selection

R
1
1.25
1.5
1.75
2
2.25
2.5
3
3.5
4

Alterations	Code	Spec.	1Code
	BC	Increases No. of bolt holes. No. of bolt holes: 2 ⋯ 4 (Supplied bolts: 4)	Quotation
L T	LKC	L dimension tolerance alteration L +0.1 0 ⋯, L 0 −0.02 When LKC is used, L dimension alteration in 0.01mm increments possible	

Alterations	Code	Spec.	1Code
	KC	Single flange cutting KC=0.5mm increments D/2≦KC＜20 Not available for string eliminator type Interference with the SR part may occur.	Quotation
	WKC	Two parallel flange cutting WKC=0.5mm increments D/2≦WKC＜20 Not available for string eliminator type Interference with the SR part may occur.	
Cooling groove Position alteration	CC	Starting point change of cooling groove (C=3mm part thickness change) CC=1mm increments 3＜CC≦L−N−CW−13 The position of O ring ① varies with CC and CW values. Designation method CC8	

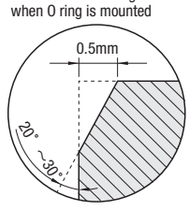
Example



■Recommended CW Dimension

D	F	Water hole diameter φ	CW
16	2	6	8～
		8	14～
		10	22～
		12	30～
		14	40～
20	2.5	6	8～
		8	12～
		10	16～
		12	24～
		14	32～

Details A: chamfering method when O ring is mounted



■Notes on handling
- Please finish it until the surface roughness on the plate side in contact with O ring reaches 1.6▽.
- Before inserting the sprue bushing, apply special grease on the O ring to protect it from breakage.
- The recommended tolerance of sprue bushing hole on the mold side is H7.