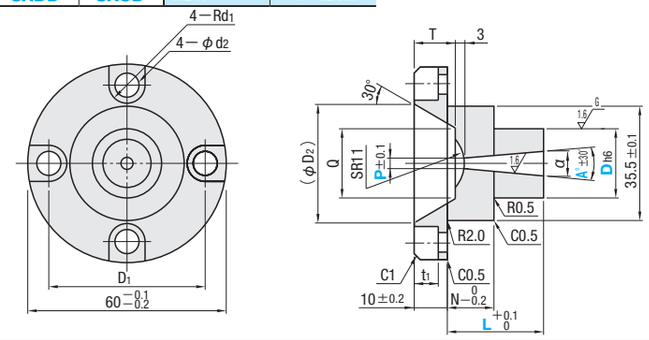
SPRUE BUSHINGS FOR EXTENSION NOZZLE

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

—Straight type—

RoHS

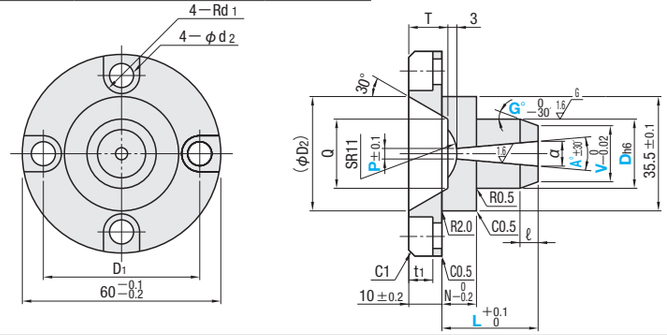
Part Number			M	H
Small nozzle type	Large nozzle type	Special nozzle type		
SXM	SXDM	SXCM	HPM1 equivalent	37～43HRC
SXD	SXDD	SXCD	SKD61	48～52HRC



—Tapered type—

RoHS

Part Number			M	H
Small nozzle type	Large nozzle type	Special nozzle type		
SXTM	SXGM	SXSM	HPM1 equivalent	37～43HRC
SXTD	SXGD	SXSD	SKD61	48～52HRC



d1	d2	t1	D1	D2	T	N	Q	Part Number Type			D	L 0.1mm increments	P 0.1mm increments	A°	V 0.1mm increments	G° 1° increments
4.5	5.5	5.5	50	40	17	15	20	—Small nozzle type—			10	Straight type 25.0～65.0 Tapered type 30.0～65.0	2.0～5.0	1 2 3 4	D>V≧α+4 Available for tapered type only	1～10 Available for tapered type only
								Straight	Tapered		13					
								(HPM1 equivalent)	SXM	SXTM	16					
								(SKD61)	SXD	SXTD	20					
5.5	6.5	6.5	49	34	12	11	20	—Large nozzle type—			10	Straight type 21.0～61.0 Tapered type 26.0～61.0				
								Straight	Tapered		13					
								(HPM1 equivalent)	SXDM	SXGM	16					
								(SKD61)	SXDD	SXGD	20					
				38			24	—Special nozzle type—			10					
								Straight	Tapered		13					
								(HPM1 equivalent)	SXCM	SXSM	16					
								(SKD61)	SXCD	SXSD	20					

The value of α is set in accordance with L dimension.

*Available for tapered type only

L—(N+ℓ)≧4

(Calculation of ℓ value) $\ell = \frac{D-V}{2\tan(G-0.25)}$

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

Working limits

- SXM・SXD
  D—α≧2 (Calculation of α value) $\alpha = P+2\{L+(U)-10\}\tan\frac{A}{2}$
  U : with ZC alteration
- SXTM・SXTD
  V—α≧4 (Calculation of α value) $\alpha = P+2\{L+(U)-10\}\tan\frac{A}{2}$
  U : with ZC alteration

Conversion Chart of Trigonometric Functions P.1337

- SXDM・SXDD・SXCM・SXCD
  D—α≧2 (Calculation of α value) $\alpha = P+2\{L+(U)-5\}\tan\frac{A}{2}$
  U : with ZC alteration
- SXGM・SXGD・SXSM・SXSD
  V—α≧4 (Calculation of α value) $\alpha = P+2\{L+(U)-5\}\tan\frac{A}{2}$
  U : with ZC alteration

Order

Part Number	L	P	A	V	G
SXM 13	63.5	P3.5	A2		
SXTM13	40.0	P3.0	A2	V11.0	G5

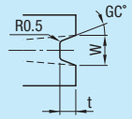
Days to Ship Quotation

Price Quotation

Alterations Part Number — L — P — A — V — G — (AIW・AXW…etc.)

SXM16 — 35.0 — P3.5 — A2 — AIW6 — GC7 — LKC

Alterations: Shape A (Trapezoid)



Code	AIW	AXW	ATW	ALW
Spec.	+	+	+	+
1Code		Quotation		

Spec.

Designation method AIW10—GC7

+Bolt hole position

⊗ Combination with ZC not available.

ATW, ALW have working limits as follows.

When D=10, (α—0.6)≧W

When D≧13, (α—0.4)≧W

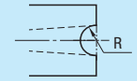
The trapezoidal taper angle, which was previously fixed at 10°, is now selectable from 10° and 7°.

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 dimension and GC° selection

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

Alterations: Shape B (Semicircle)



Code	BIR	BXR	BTR	BLR
Spec.	+	+	+	+
1Code		Quotation		

Spec.

Designation method BXR2

+Bolt hole position

⊗ Combination with ZC not available.

BTR, BLR have working limits as follows.

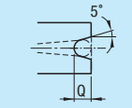
when D=10, (α—0.6)≧2×R

when D≧13, (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: Shape C (Arc+Tangent)



Code	CIQ	CXQ	CTQ	CLQ
Spec.	+	+	+	+
1Code		Quotation		

Spec.

Designation method CTQ5

+Bolt hole position

⊗ Combination with ZC not available.

CTQ, CLQ have working limits as follows.

when D=10, (α—0.6)≧0×1.09

when D≧13, (α—0.4)≧0×1.09

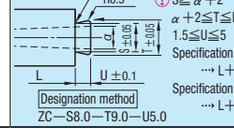
• Q dimension selection

2
2.5
3
3.5
4
5
6
8

Alterations: ZC

Code: ZC

Spec.



Undercut machining

S, T, U=0.1mm increments

S≧α+2

α+2≦T≦D(V—2UtanG)

1.5≦U≦5

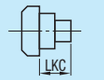
Specification L max.=65.0 ···› L+U≦65.0

Specification L max.=61.0 ···› L+U≦61.0

Designation method ZC—S8.0—T9.0—U5.0

1Code: Quotation

Alterations: LKC



Code: LKC

Spec.

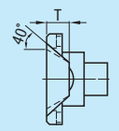
L dimension tolerance alteration

$L^{+0.1}_{0}$ ···› $L_{-0.02}^{0}$

L dimension can be designated at 0.01mm increments when LKC is used.

⊗ Combination with ZC not available.

Alterations: TFC



Code: TFC

Spec.

The T dimension taper angle will be changed.

30° (±30') ···› 40° (±30')

Available only for large nozzle type

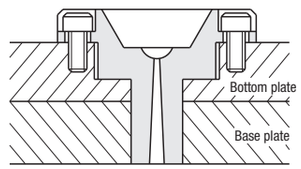
The tapering will interfere with the bolt counterbore.

1Code: Quotation

Example

Since the sprue length can be cut shorter than other sprue bushings, the resin can be saved.

(1) Functions as a locating ring + sprue bushing



(2) Use in combination with **LRBS** bolt type locating ring