


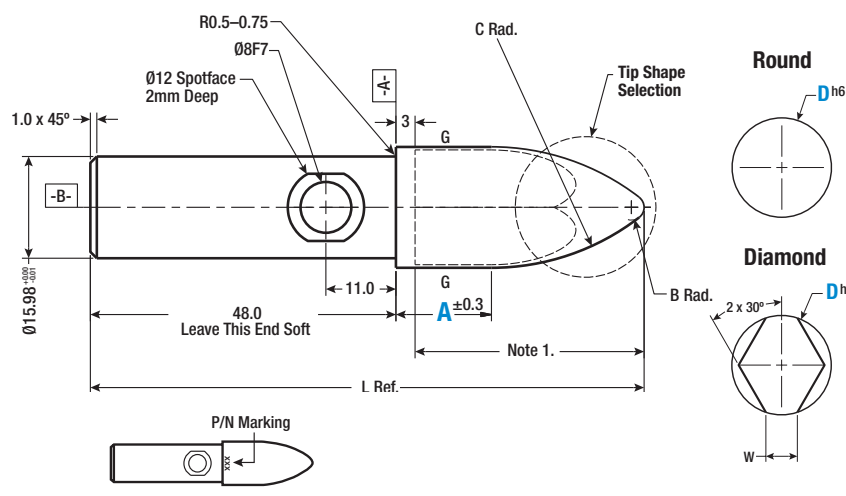
Locating Pins

ARFL Large Head



Type	Retractable	Coating	Material	Hardness
ARFL	Round	P - Plain T - TiN	8620 Alloy Steel (JIS SNCM220)	Carburized 58-62 HRC min. (Depth 0.5-0.7 after Grinding)
ARFLD	Diamond			

3D CAD is available online.



Dimensions: $R0.5-0.75$, $\emptyset 8F7$, $\emptyset 12$ Spotface 2mm Deep, $1.0 \times 45^\circ$, 3 , G , C Rad., A , B Rad., D^{h6} , 48.0 Leave This End Soft, 11.0 , $A \pm 0.3$, L Ref., W , $2 \times 30^\circ$, P/N Marking.

Tolerance			
Dim.	Tol.	Finish (Ra)	Geometric
0.0	± 0.3	6.0 μm	\perp 0.015 T.I.R to Datum A & B
0.00	± 0.03	3.0 μm	\parallel
0.000	± 0.015	1.6 μm	\odot 0.03 T.I.R

Tip Shape Selection		
A Shape	Bullet	
B Shape	Half Bullet	
C Shape	Sphere	

$$L \text{ ref.} = 48 + A + \sqrt{D \left(C - \frac{D}{4} \right)}$$

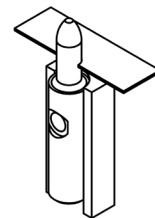
Configurable NAAMS (A & D Configurable)								
Type	Coating	Tip Shape	D (0.01 mm Inc.)	D Tol.	A Lead Length (0.1 mm Inc.)	W	B Rad	C Rad
ARFL (Round)	P - Plain T - TiN	A	16.01-25.00	h6	5.0-100.0	6.0	2.0	Tip A $C = D \times 2.0$ ($\emptyset > 16$)
ARFLD (Diamond)		B	25.01-40.00			7.0-9.0		Tip B $C = D \times 1.0$ ($\emptyset > 16$)
		C				Tip C $C = D \times 0.5$		

Note 1: Chatter may be present on flat surface.

Part Number Example


Part Number	Coating	Tip Shape	D	A
ARFL	P	A	D17.78	A42.0
ARFLD	T	C	D31.78	A42.0

Application Example



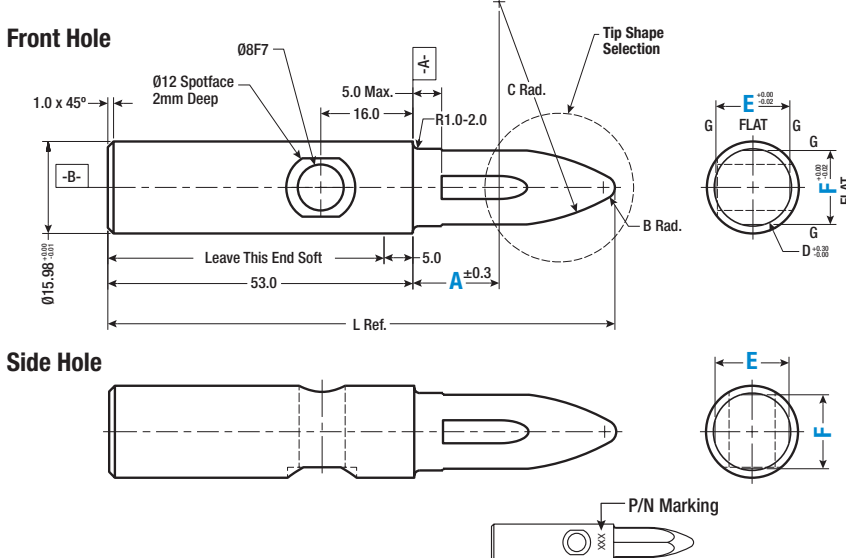
Locating Pins

ARFERS Small Head



Type	Retractable	Coating	Material	Hardness
ARFERS	Front Hole	P - Plain T - TiN	8620 Alloy Steel (JIS SNCM220)	Carburized 58-62 HRC min. (Depth 0.5-0.7 after Grinding)
ARFESS	Side Hole			

3D CAD is available online.



Dimensions: $1.0 \times 45^\circ$, $\emptyset 8F7$, $\emptyset 12$ Spotface 2mm Deep, 5.0 Max., 16.0 , $R1.0-2.0$, C Rad., B Rad., $A \pm 0.3$, 5.0 , 53.0 , L Ref., E , F , D , G , $FLAT$, P/N Marking.

Tolerance			
Dim.	Tol.	Finish (Ra)	Geometric
0.0	± 0.3	6.0 μm	\perp 0.015 T.I.R to Datum A & B
0.00	± 0.03	3.0 μm	\parallel
0.000	± 0.015	1.6 μm	\odot 0.03 T.I.R

Tip Shape Selection		
A Shape	Bullet	
B Shape	Half Bullet	
C Shape	Sphere	

$$L \text{ ref.} = 53 + A + \sqrt{D \left(C - \frac{D}{4} \right)}$$

Configurable NAAMS (A, E & F Configurable)								
Type	Coating	Tip Shape	E Flat (0.01 mm Inc.)	F Flat (0.01 mm Inc.)	D Diameter	A Lead Length (1 mm Inc.)	B Rad	C Rad
ARFERS (Front Hole)	P - Plain T - TiN	A	6.00-10.00	6.00-16.00	$D = E/F + 1.0$	10-100	2.0	Tip A $C = D \times 3.0$ ($\emptyset \leq 16$) $C = D \times 2.0$ ($\emptyset > 16$)
ARFESS (Side Hole)		B	10.01-16.00	10.01-16.00	$D = E/F + 0.75$			Tip B $C = D \times 1.5$ ($\emptyset \leq 16$) $C = D \times 1.0$ ($\emptyset > 16$)
		C			Tip C $C = D \times 0.5$			

Note: D Diameter is calculated on E or F Flat size (whichever is larger).

Part Number Example

Part Number	Coating	Tip Shape	E	F	A
ARFESS	P	C	E12.01	F11.01	A42
ARFERS	T	A	E8.06	F11.01	A42

Application Example

