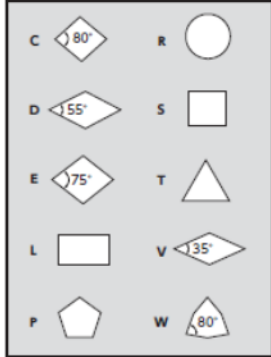


# ANSI / ISO Insert Nomenclature

## 1 Shape



## 3 Tolerance Class

| Symbol | d (inch)      | m (inch)      | s (inch) |
|--------|---------------|---------------|----------|
| A      | ±.0010        | ±.0002        | ±.0010   |
| F      | ±.0050        | ±.0002        | ±.0010   |
| C      | ±.0010        | ±.0005        | ±.0010   |
| H      | ±.0050        | ±.0005        | ±.0010   |
| E      | ±.0010        | ±.0010        | ±.0010   |
| G      | ±.0010        | ±.0010        | ±.0050   |
| J      | ±.0020        | ±.0020        | ±.0050   |
| K      | ±.002 ~ ±.005 | ±.0005        | ±.0010   |
| L      | ±.002 ~ ±.005 | ±.0010        | ±.0010   |
| M      | ±.002 ~ ±.005 | ±.003 ~ ±.007 | ±.0050   |
| N      | ±.002 ~ ±.005 | ±.003 ~ ±.007 | ±.0010   |
| U      | ±.003 ~ ±.010 | ±.005 ~ ±.015 | ±.0050   |

Inch

C

C

G

T

1

2

3

4

Metric

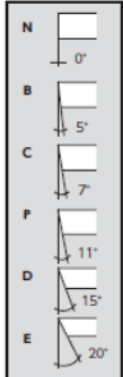
C

C

G

T

## 2 Clearances



## 4 Type

| Type           | Symbol | Type    | Symbol |
|----------------|--------|---------|--------|
|                | N (E)  | 70°~90° | H      |
|                | F      | 70°~90° | B      |
|                | R      | 40°~60° | T      |
|                | A      | 40°~60° | W      |
|                | G      |         |        |
|                | M      |         |        |
| Special design | X      |         |        |

## 6 Thickness

| Thickness S (inch) | Inch | Metric |
|--------------------|------|--------|
| 3/32               | 1.5  | 02     |
| 1/8                | 2    | 03     |
| 5/32               | 2.5  | T3     |
| 3/16               | 3    | 04     |
| 1/4                | 4    | 06     |
| 5/16               | 5    | 07     |
| 3/8                | 6    | 09     |
| 1/2                | 8    | 12     |

## 5 Cutting Edge Length

| Inch             | Metric           |
|------------------|------------------|
| Inscribed Circle | Inscribed Circle |
| 1/4              | 2                |
| 3/8              | 3                |
| 1/2              | 4                |
| 5/8              | 5                |
| 3/4              | 6                |
| 1                | 8                |

## 7 Nose Radius

| Corner Radius | Inch | Metric |
|---------------|------|--------|
| .001          | 01   | 00     |
| .003          | 04M  | 01M    |
| .004          | 04   | 01     |
| .007          | 08M  | 02M    |
| .008          | 08   | 02     |
| .015          | 1M   | 04M    |
| .016 (1/64)   | 1    | 04     |
| .031 (1/32)   | 2    | 06     |

3

2.5

08M

F

N

AM3

5

6

7

8

9

10

## 8 Edge Sharpness

|         |                                              |
|---------|----------------------------------------------|
| F       | Up-sharp edge (without any edge preparation) |
| (Blank) | Non up-sharp edge                            |

## 9 Hand of Chipbreaker

|   |            |
|---|------------|
| N | Neutral*   |
| R | Right-hand |
| L | Left-hand  |

## 10 Type of Chipbreaker

See page P20 to P23 for chipbreaker information

## 11 Wiper Insert

\*WP after chipbreaker