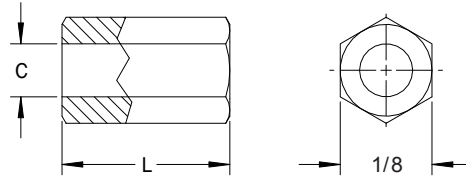


1/8 Hex Spacers

PART DESCRIPTION EXAMPLE

HSP1/8 — 2 X .250 — STL — Z

T T T T
 Clearance Length Material Finish
 Hole Code Code Code
 Code



CLEARANCE HOLE

| C +.010 -.000 | Clearance Hole Code |
|---------------------|---------------------------|
| .062 | 0 |
| .088 | 2 |

MATERIAL

| Material Code | Material Description |
|------------------|-------------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

LENGTH

| Length | L (Length) Code ±.005 |
|--------|--------------------------------|
| 3/32 | .094 |
| 1/8 | .125 |
| 5/32 | .156 |
| 3/16 | .187 |
| 7/32 | .219 |
| 1/4 | .250 |
| 9/32 | .281 |
| 5/16 | .312 |
| 11/32 | .344 |
| 3/8 | .375 |
| 13/32 | .406 |
| 7/16 | .437 |
| 15/32 | .469 |
| 1/2 | .500 |

FINISH

| Finish Code | Finish Description |
|----------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

All dimensions in inches.
Custom sizes, materials, and finishes available.

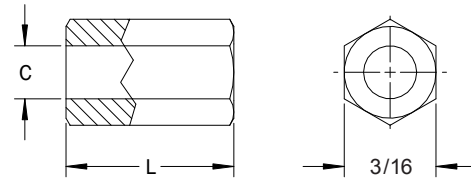
3/16 Hex Spacers

PART DESCRIPTION EXAMPLE

HSP3/16 — 2 X .500 — STL — Z

T
T
T
T

Clearance Hole Code Length Code Material Code Finish Code



CLEARANCE HOLE

| C +.010 -.000 | Clearance Hole Code |
|---------------------|---------------------|
| .088 | 2 |
| .114 | 4 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

LENGTH

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 3/32 | .094 |
| 1/8 | .125 |
| 5/32 | .156 |
| 3/16 | .187 |
| 7/32 | .219 |
| 1/4 | .250 |
| 9/32 | .281 |
| 5/16 | .312 |
| 11/32 | .344 |
| 3/8 | .375 |
| 13/32 | .406 |
| 7/16 | .437 |
| 15/32 | .469 |
| 1/2 | .500 |
| 17/32 | .531 |

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 9/16 | .562 |
| 19/32 | .594 |
| 5/8 | .625 |
| 21/32 | .656 |
| 11/16 | .687 |
| 23/32 | .719 |
| 3/4 | .750 |
| 25/32 | .781 |
| 13/16 | .812 |
| 27/32 | .844 |
| 7/8 | .875 |
| 29/32 | .906 |
| 15/16 | .937 |
| 31/32 | .969 |
| 1 | 1.000 |

FINISH

| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

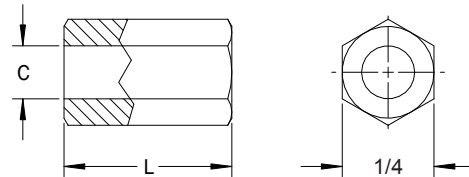
All dimensions in inches.
Custom sizes, materials, and finishes available.

1/4 Hex Spacers

PART DESCRIPTION EXAMPLE

HSP1/4 — 4 X 1.000 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| C +.010 -.000 | Clearance Hole Code |
|---------------------|---------------------|
| .088 | 2 |
| .114 | 4 |
| .140 | 6 |
| .166 | 8 |

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 17/32 | .531 |
| 9/16 | .562 |
| 19/32 | .594 |
| 5/8 | .625 |
| 21/32 | .656 |
| 11/16 | .687 |
| 23/32 | .719 |
| 3/4 | .750 |
| 25/32 | .781 |
| 13/16 | .812 |
| 27/32 | .844 |
| 7/8 | .875 |
| 29/32 | .906 |
| 15/16 | .937 |
| 31/32 | .969 |
| 1 | 1.000 |
| 1-1/16 | 1.062 |
| 1-1/8 | 1.125 |
| 1-3/16 | 1.187 |
| 1-1/4 | 1.250 |
| 1-5/16 | 1.312 |
| 1-3/8 | 1.375 |
| 1-7/16 | 1.437 |
| 1-1/2 | 1.500 |

| Length | L (Length Code) ±.005 |
|---------|-----------------------------|
| 1-9/16 | 1.562 |
| 1-5/8 | 1.625 |
| 1-11/16 | 1.687 |
| 1-3/4 | 1.750 |
| 1-13/16 | 1.812 |
| 1-7/8 | 1.875 |
| 1-15/16 | 1.937 |
| 2 | 2.000 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

All dimensions in inches.
Custom sizes, materials, and finishes available.

LENGTH

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 3/32 | .094 |
| 1/8 | .125 |
| 5/32 | .156 |
| 3/16 | .187 |
| 7/32 | .219 |
| 1/4 | .250 |
| 9/32 | .281 |
| 5/16 | .312 |
| 11/32 | .344 |
| 3/8 | .375 |
| 13/32 | .406 |
| 7/16 | .437 |
| 15/32 | .469 |
| 1/2 | .500 |

FINISH

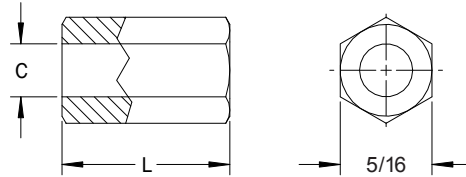
| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

5/16 Hex Spacers

PART DESCRIPTION EXAMPLE

HSP5/16 — 6 X 1.000 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| C +.010 -.000 | Clearance Hole Code |
|---------------------|---------------------|
| .114 | 4 |
| .140 | 6 |
| .166 | 8 |
| .192 | 10 |

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 17/32 | .531 |
| 9/16 | .562 |
| 19/32 | .594 |
| 5/8 | .625 |
| 21/32 | .656 |
| 11/16 | .687 |
| 23/32 | .719 |
| 3/4 | .750 |
| 25/32 | .781 |
| 13/16 | .812 |
| 27/32 | .844 |
| 7/8 | .875 |
| 29/32 | .906 |
| 15/16 | .937 |
| 31/32 | .969 |
| 1 | 1.000 |
| 1-1/16 | 1.062 |
| 1-1/8 | 1.125 |
| 1-3/16 | 1.187 |
| 1-1/4 | 1.250 |
| 1-5/16 | 1.312 |
| 1-3/8 | 1.375 |
| 1-7/16 | 1.437 |
| 1-1/2 | 1.500 |

| Length | L (Length Code) ±.005 |
|---------|-----------------------------|
| 1-9/16 | 1.562 |
| 1-5/8 | 1.625 |
| 1-11/16 | 1.687 |
| 1-3/4 | 1.750 |
| 1-13/16 | 1.812 |
| 1-7/8 | 1.875 |
| 1-15/16 | 1.937 |
| 2 | 2.000 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYV0 | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

All dimensions in inches.
Custom sizes, materials, and finishes available.

LENGTH

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 3/32 | .094 |
| 1/8 | .125 |
| 5/32 | .156 |
| 3/16 | .187 |
| 7/32 | .219 |
| 1/4 | .250 |
| 9/32 | .281 |
| 5/16 | .312 |
| 11/32 | .344 |
| 3/8 | .375 |
| 13/32 | .406 |
| 7/16 | .437 |
| 15/32 | .469 |
| 1/2 | .500 |

FINISH

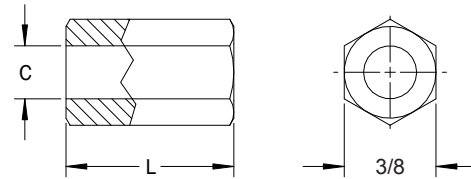
| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

3/8 Hex Spacers

PART DESCRIPTION EXAMPLE

HSP3/8 — 8 X 1.000 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| C +.010 -.000 | Clearance Hole Code |
|---------------------|---------------------|
| .140 | 6 |
| .166 | 8 |
| .192 | 10 |
| .218 | 12 |

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 17/32 | .531 |
| 9/16 | .562 |
| 19/32 | .594 |
| 5/8 | .625 |
| 21/32 | .656 |
| 11/16 | .687 |
| 23/32 | .719 |
| 3/4 | .750 |
| 25/32 | .781 |
| 13/16 | .812 |
| 27/32 | .844 |
| 7/8 | .875 |
| 29/32 | .906 |
| 15/16 | .937 |
| 31/32 | .969 |
| 1 | 1.000 |
| 1-1/16 | 1.062 |
| 1-1/8 | 1.125 |
| 1-3/16 | 1.187 |
| 1-1/4 | 1.250 |
| 1-5/16 | 1.312 |
| 1-3/8 | 1.375 |
| 1-7/16 | 1.437 |
| 1-1/2 | 1.500 |

| Length | L (Length Code) ±.005 |
|---------|-----------------------------|
| 1-9/16 | 1.562 |
| 1-5/8 | 1.625 |
| 1-11/16 | 1.687 |
| 1-3/4 | 1.750 |
| 1-13/16 | 1.812 |
| 1-7/8 | 1.875 |
| 1-15/16 | 1.937 |
| 2 | 2.000 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYV0 | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

All dimensions in inches.
Custom sizes, materials, and finishes available.

LENGTH

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 3/32 | .094 |
| 1/8 | .125 |
| 5/32 | .156 |
| 3/16 | .187 |
| 7/32 | .219 |
| 1/4 | .250 |
| 9/32 | .281 |
| 5/16 | .312 |
| 11/32 | .344 |
| 3/8 | .375 |
| 13/32 | .406 |
| 7/16 | .437 |
| 15/32 | .469 |
| 1/2 | .500 |

FINISH

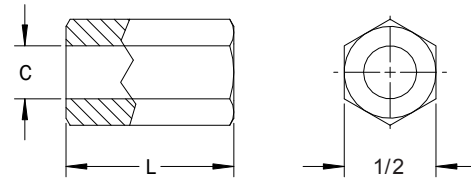
| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

1/2 Hex Spacers

PART DESCRIPTION EXAMPLE

HSP1/2 — 10 X 1.000 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| C +.010 -.000 | Clearance Hole Code |
|---------------------|---------------------|
| .140 | 6 |
| .166 | 8 |
| .192 | 10 |
| .218 | 12 |
| .252 | 25 |

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 1/2 | .500 |
| 17/32 | .531 |
| 9/16 | .562 |
| 19/32 | .594 |
| 5/8 | .625 |
| 21/32 | .656 |
| 11/16 | .687 |
| 23/32 | .719 |
| 3/4 | .750 |
| 25/32 | .781 |
| 13/16 | .812 |
| 27/32 | .844 |
| 7/8 | .875 |
| 29/32 | .906 |
| 15/16 | .937 |
| 31/32 | .969 |
| 1 | 1.000 |
| 1-1/16 | 1.062 |
| 1-1/8 | 1.125 |
| 1-3/16 | 1.187 |
| 1-1/4 | 1.250 |
| 1-5/16 | 1.312 |
| 1-3/8 | 1.375 |
| 1-7/16 | 1.437 |

| Length | L (Length Code) ±.005 |
|---------|-----------------------------|
| 1-1/2 | 1.500 |
| 1-9/16 | 1.562 |
| 1-5/8 | 1-5/8 |
| 1-11/16 | 1-11/16 |
| 1-3/4 | 1-3/4 |
| 1-13/16 | 1-13/16 |
| 1-7/8 | 1-7/8 |
| 1-15/16 | 1-15/16 |
| 2 | 2.000 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

All dimensions in inches.
Custom sizes, materials, and finishes available.

LENGTH

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 3/32 | .094 |
| 1/8 | .125 |
| 5/32 | .156 |
| 3/16 | .187 |
| 7/32 | .219 |
| 1/4 | .250 |
| 9/32 | .281 |
| 5/16 | .312 |
| 11/32 | .344 |
| 3/8 | .375 |
| 13/32 | .406 |
| 7/16 | .437 |
| 15/32 | .469 |

FINISH

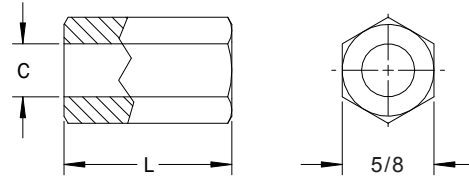
| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

5/8 Hex Spacers

PART DESCRIPTION EXAMPLE

HSP5/8 — 12 X 1.000 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| C +.010 -.000 | Clearance Hole Code |
|---------------------|---------------------|
| .140 | 6 |
| .166 | 8 |
| .192 | 10 |
| .218 | 12 |
| .252 | 25 |
| .315 | 31 |
| .377 | 38 |

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 15/32 | .469 |
| 1/2 | .500 |
| 17/32 | .531 |
| 9/16 | .562 |
| 19/32 | .594 |
| 5/8 | .625 |
| 21/32 | .656 |
| 11/16 | .687 |
| 23/32 | .719 |
| 3/4 | .750 |
| 25/32 | .781 |
| 13/16 | .812 |
| 27/32 | .844 |
| 7/8 | .875 |
| 29/32 | .906 |
| 15/16 | .937 |
| 31/32 | .969 |
| 1 | 1.000 |
| 1-1/16 | 1.062 |
| 1-1/8 | 1.125 |
| 1-3/16 | 1.187 |
| 1-1/4 | 1.250 |
| 1-5/16 | 1.312 |
| 1-3/8 | 1.375 |
| 1-7/16 | 1.437 |

| Length | L (Length Code) ±.005 |
|---------|-----------------------------|
| 1-1/2 | 1.500 |
| 1-9/16 | 1.562 |
| 1-5/8 | 1-5/8 |
| 1-11/16 | 1-11/16 |
| 1-3/4 | 1-3/4 |
| 1-13/16 | 1-13/16 |
| 1-7/8 | 1-7/8 |
| 1-15/16 | 1-15/16 |
| 2 | 2.000 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

All dimensions in inches.
Custom sizes, materials, and finishes available.

LENGTH

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 3/32 | .094 |
| 1/8 | .125 |
| 5/32 | .156 |
| 3/16 | .187 |
| 7/32 | .219 |
| 1/4 | .250 |
| 9/32 | .281 |
| 5/16 | .312 |
| 11/32 | .344 |
| 3/8 | .375 |
| 13/32 | .406 |
| 7/16 | .437 |

FINISH

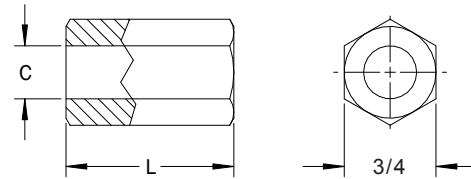
| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

3/4 Hex Spacers

PART DESCRIPTION EXAMPLE

HSP3/4 — 25 X 1.000 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| C +.010 -.000 | Clearance Hole Code |
|---------------------|---------------------|
| .140 | 6 |
| .166 | 8 |
| .192 | 10 |
| .218 | 12 |
| .252 | 25 |
| .315 | 31 |
| .377 | 38 |
| .440 | 43 |
| .505 | 50 |

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 13/32 | .406 |
| 7/16 | .437 |
| 15/32 | .469 |
| 1/2 | .500 |
| 17/32 | .531 |
| 9/16 | .562 |
| 19/32 | .594 |
| 5/8 | .625 |
| 21/32 | .656 |
| 11/16 | .687 |
| 23/32 | .719 |
| 3/4 | .750 |
| 25/32 | .781 |
| 13/16 | .812 |
| 27/32 | .844 |
| 7/8 | .875 |
| 29/32 | .906 |
| 15/16 | .937 |
| 31/32 | .969 |
| 1 | 1.000 |
| 1-1/16 | 1.062 |
| 1-1/8 | 1.125 |
| 1-3/16 | 1.187 |
| 1-1/4 | 1.250 |
| 1-5/16 | 1.312 |

| Length | L (Length Code) ±.005 |
|---------|-----------------------------|
| 1-3/8 | 1.375 |
| 1-7/16 | 1.437 |
| 1-1/2 | 1.500 |
| 1-9/16 | 1.562 |
| 1-5/8 | 1-5/8 |
| 1-11/16 | 1-11/16 |
| 1-3/4 | 1-3/4 |
| 1-13/16 | 1-13/16 |
| 1-7/8 | 1-7/8 |
| 1-15/16 | 1-15/16 |
| 2 | 2.000 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

All dimensions in inches.
Custom sizes, materials, and finishes available.

LENGTH

| Length | L (Length Code) ±.005 |
|--------|-----------------------------|
| 3/32 | .094 |
| 1/8 | .125 |
| 5/32 | .156 |
| 3/16 | .187 |
| 7/32 | .219 |
| 1/4 | .250 |
| 9/32 | .281 |
| 5/16 | .312 |
| 11/32 | .344 |
| 3/8 | .375 |

FINISH

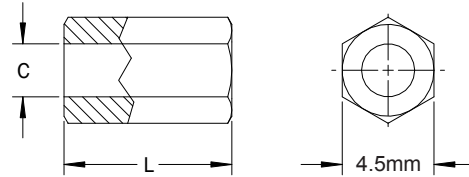
| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

4.5mm Hex Spacers

PART DESCRIPTION EXAMPLE

HSP4.5 — 2.7 X 15.00 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| Thread | C (Clearance Hole Code) +0.3 -0.0 |
|--------|--|
| M2 | 2.2 |
| M2.5 | 2.7 |
| M3 | 3.2 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

LENGTH

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 1 | 1.00 |
| 2 | 2.00 |
| 3 | 3.00 |
| 4 | 4.00 |
| 5 | 5.00 |
| 6 | 6.00 |
| 7 | 7.00 |
| 8 | 8.00 |
| 9 | 9.00 |
| 10 | 10.00 |
| 11 | 11.00 |
| 12 | 12.00 |
| 13 | 13.00 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 14 | 14.00 |
| 15 | 15.00 |
| 16 | 16.00 |
| 17 | 17.00 |
| 18 | 18.00 |
| 19 | 19.00 |
| 20 | 20.00 |
| 21 | 21.00 |
| 22 | 22.00 |
| 23 | 23.00 |
| 24 | 24.00 |
| 25 | 25.00 |

FINISH

| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

HSP 4.5mm Hex Spacers

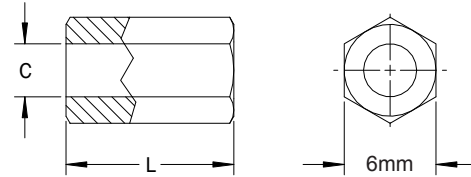
All dimensions in millimeters.
Custom sizes, materials, and finishes available.

6mm Hex Spacers

PART DESCRIPTION EXAMPLE

HSP6 — 3.7 X 25.00 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| Thread | C (Clearance Hole Code) +0.3 -0.0 |
|--------|--|
| M3 | 3.2 |
| M3.5 | 3.7 |
| M4 | 4.3 |

LENGTH

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 1 | 1.00 |
| 2 | 2.00 |
| 3 | 3.00 |
| 4 | 4.00 |
| 5 | 5.00 |
| 6 | 6.00 |
| 7 | 7.00 |
| 8 | 8.00 |
| 9 | 9.00 |
| 10 | 10.00 |
| 11 | 11.00 |
| 12 | 12.00 |
| 13 | 13.00 |
| 14 | 14.00 |
| 15 | 15.00 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 16 | 16.00 |
| 17 | 17.00 |
| 18 | 18.00 |
| 19 | 19.00 |
| 20 | 20.00 |
| 21 | 21.00 |
| 22 | 22.00 |
| 23 | 23.00 |
| 24 | 24.00 |
| 25 | 25.00 |
| 26 | 26.00 |
| 27 | 27.00 |
| 28 | 28.00 |
| 29 | 29.00 |
| 30 | 30.00 |
| 31 | 31.00 |
| 32 | 32.00 |
| 33 | 33.00 |
| 34 | 34.00 |
| 35 | 35.00 |
| 36 | 36.00 |
| 37 | 37.00 |
| 38 | 38.00 |
| 39 | 39.00 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 40 | 40.00 |
| 41 | 41.00 |
| 42 | 42.00 |
| 43 | 43.00 |
| 44 | 44.00 |
| 45 | 45.00 |
| 46 | 46.00 |
| 47 | 47.00 |
| 48 | 48.00 |
| 49 | 49.00 |
| 50 | 50.00 |
| 51 | 51.00 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

FINISH

| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

HSP 6mm Hex Spacers

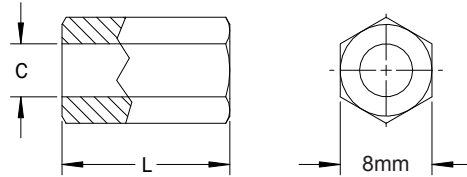
All dimensions in millimeters.
Custom sizes, materials, and finishes available.

8mm Hex Spacers

PART DESCRIPTION EXAMPLE

HSP8 — 3.7 X 25.00 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| Thread | C (Clearance Hole Code) +0.3 -0.0 |
|--------|--|
| M3 | 3.2 |
| M3.5 | 3.7 |
| M4 | 4.3 |
| M5 | 5.3 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 15 | 15.00 |
| 16 | 16.00 |
| 17 | 17.00 |
| 18 | 18.00 |
| 19 | 19.00 |
| 20 | 20.00 |
| 21 | 21.00 |
| 22 | 22.00 |
| 23 | 23.00 |
| 24 | 24.00 |
| 25 | 25.00 |
| 26 | 26.00 |
| 27 | 27.00 |
| 28 | 28.00 |
| 29 | 29.00 |
| 30 | 30.00 |
| 31 | 31.00 |
| 32 | 32.00 |
| 33 | 33.00 |
| 34 | 34.00 |
| 35 | 35.00 |
| 36 | 36.00 |
| 37 | 37.00 |
| 38 | 38.00 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 39 | 39.00 |
| 40 | 40.00 |
| 41 | 41.00 |
| 42 | 42.00 |
| 43 | 43.00 |
| 44 | 44.00 |
| 45 | 45.00 |
| 46 | 46.00 |
| 47 | 47.00 |
| 48 | 48.00 |
| 49 | 49.00 |
| 50 | 50.00 |
| 51 | 51.00 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

LENGTH

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 1 | 1.00 |
| 2 | 2.00 |
| 3 | 3.00 |
| 4 | 4.00 |
| 5 | 5.00 |
| 6 | 6.00 |
| 7 | 7.00 |
| 8 | 8.00 |
| 9 | 9.00 |
| 10 | 10.00 |
| 11 | 11.00 |
| 12 | 12.00 |
| 13 | 13.00 |
| 14 | 14.00 |

FINISH

| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

HSP 8mm Hex Spacers

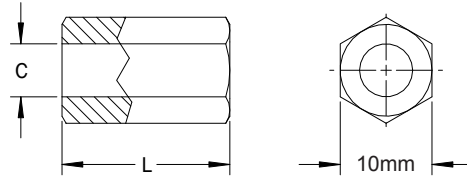
All dimensions in millimeters.
Custom sizes, materials, and finishes available.

10mm Hex Spacers

PART DESCRIPTION EXAMPLE

HSP10 — 4.3 X 30.00 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| Thread | C (Clearance Hole Code) +0.3 -0.0 |
|--------|--|
| M3.5 | 3.7 |
| M4 | 4.3 |
| M5 | 5.3 |

LENGTH

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 1 | 1.00 |
| 2 | 2.00 |
| 3 | 3.00 |
| 4 | 4.00 |
| 5 | 5.00 |
| 6 | 6.00 |
| 7 | 7.00 |
| 8 | 8.00 |
| 9 | 9.00 |
| 10 | 10.00 |
| 11 | 11.00 |
| 12 | 12.00 |
| 13 | 13.00 |
| 14 | 14.00 |
| 15 | 15.00 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 16 | 16.00 |
| 17 | 17.00 |
| 18 | 18.00 |
| 19 | 19.00 |
| 20 | 20.00 |
| 21 | 21.00 |
| 22 | 22.00 |
| 23 | 23.00 |
| 24 | 24.00 |
| 25 | 25.00 |
| 26 | 26.00 |
| 27 | 27.00 |
| 28 | 28.00 |
| 29 | 29.00 |
| 30 | 30.00 |
| 31 | 31.00 |
| 32 | 32.00 |
| 33 | 33.00 |
| 34 | 34.00 |
| 35 | 35.00 |
| 36 | 36.00 |
| 37 | 37.00 |
| 38 | 38.00 |
| 39 | 39.00 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 40 | 40.00 |
| 41 | 41.00 |
| 42 | 42.00 |
| 43 | 43.00 |
| 44 | 44.00 |
| 45 | 45.00 |
| 46 | 46.00 |
| 47 | 47.00 |
| 48 | 48.00 |
| 49 | 49.00 |
| 50 | 50.00 |
| 51 | 51.00 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

FINISH

| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

HSP 10mm Hex Spacers

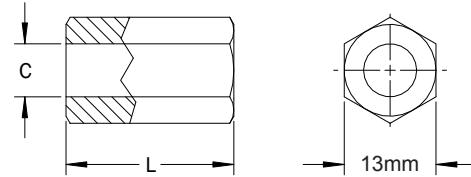
All dimensions in millimeters.
Custom sizes, materials, and finishes available.

13mm Hex Spacers

PART DESCRIPTION EXAMPLE

HSP13 — 5.3 X 35.00 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| Thread | C (Clearance Hole Code) +0.3 -0.0 |
|--------|--|
| M4 | 4.3 |
| M5 | 5.3 |
| M6 | 6.4 |
| M8 | 8.4 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 15 | 15.00 |
| 16 | 16.00 |
| 17 | 17.00 |
| 18 | 18.00 |
| 19 | 19.00 |
| 20 | 20.00 |
| 21 | 21.00 |
| 22 | 22.00 |
| 23 | 23.00 |
| 24 | 24.00 |
| 25 | 25.00 |
| 26 | 26.00 |
| 27 | 27.00 |
| 28 | 28.00 |
| 29 | 29.00 |
| 30 | 30.00 |
| 31 | 31.00 |
| 32 | 32.00 |
| 33 | 33.00 |
| 34 | 34.00 |
| 35 | 35.00 |
| 36 | 36.00 |
| 37 | 37.00 |
| 38 | 38.00 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 39 | 39.00 |
| 40 | 40.00 |
| 41 | 41.00 |
| 42 | 42.00 |
| 43 | 43.00 |
| 44 | 44.00 |
| 45 | 45.00 |
| 46 | 46.00 |
| 47 | 47.00 |
| 48 | 48.00 |
| 49 | 49.00 |
| 50 | 50.00 |
| 51 | 51.00 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

LENGTH

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 1 | 1.00 |
| 2 | 2.00 |
| 3 | 3.00 |
| 4 | 4.00 |
| 5 | 5.00 |
| 6 | 6.00 |
| 7 | 7.00 |
| 8 | 8.00 |
| 9 | 9.00 |
| 10 | 10.00 |
| 11 | 11.00 |
| 12 | 12.00 |
| 13 | 13.00 |
| 14 | 14.00 |

FINISH

| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

HSP 13mm Hex Spacers

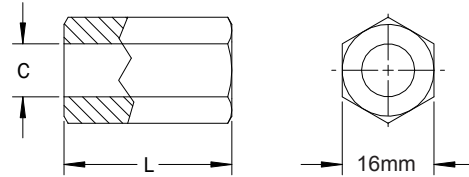
All dimensions in millimeters.
Custom sizes, materials, and finishes available.

16mm Hex Spacers

PART DESCRIPTION EXAMPLE

HSP16 — 6.4 X 40.00 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| Thread | C (Clearance Hole Code) +0.3 -0.0 |
|--------|--|
| M4 | 4.3 |
| M5 | 5.3 |
| M6 | 6.4 |
| M8 | 8.4 |
| M10 | 10.5 |
| M12 | 13.0 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 13 | 13.00 |
| 14 | 14.00 |
| 15 | 15.00 |
| 16 | 16.00 |
| 17 | 17.00 |
| 18 | 18.00 |
| 19 | 19.00 |
| 20 | 20.00 |
| 21 | 21.00 |
| 22 | 22.00 |
| 23 | 23.00 |
| 24 | 24.00 |
| 25 | 25.00 |
| 26 | 26.00 |
| 27 | 27.00 |
| 28 | 28.00 |
| 29 | 29.00 |
| 30 | 30.00 |
| 31 | 31.00 |
| 32 | 32.00 |
| 33 | 33.00 |
| 34 | 34.00 |
| 35 | 35.00 |
| 36 | 36.00 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 37 | 37.00 |
| 38 | 38.00 |
| 39 | 39.00 |
| 40 | 40.00 |
| 41 | 41.00 |
| 42 | 42.00 |
| 43 | 43.00 |
| 44 | 44.00 |
| 45 | 45.00 |
| 46 | 46.00 |
| 47 | 47.00 |
| 48 | 48.00 |
| 49 | 49.00 |
| 50 | 50.00 |
| 51 | 51.00 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

LENGTH

| Length | L Length Code (±0.13) |
|--------|-----------------------------|
| 1 | 1.00 |
| 2 | 2.00 |
| 3 | 3.00 |
| 4 | 4.00 |
| 5 | 5.00 |
| 6 | 6.00 |
| 7 | 7.00 |
| 8 | 8.00 |
| 9 | 9.00 |
| 10 | 10.00 |
| 11 | 11.00 |
| 12 | 12.00 |

FINISH

| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

HSP 16mm Hex Spacers

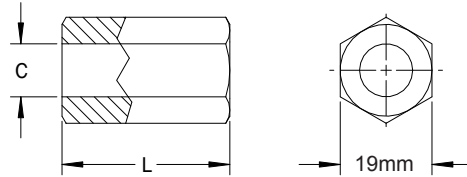
All dimensions in millimeters.
Custom sizes, materials, and finishes available.

19mm Hex Spacers

PART DESCRIPTION EXAMPLE

HSP19 — 8.4 X 40.00 — STL — Z

Clearance Hole Code
 Length Code
 Material Code
 Finish Code



CLEARANCE HOLE

| Thread | C (Clearance Hole Code) +0.3 -0.0 |
|--------|--|
| M4 | 4.3 |
| M5 | 5.3 |
| M6 | 6.4 |
| M8 | 8.4 |
| M10 | 10.5 |
| M12 | 13.0 |
| M14 | 15.0 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 12 | 12.00 |
| 13 | 13.00 |
| 14 | 14.00 |
| 15 | 15.00 |
| 16 | 16.00 |
| 17 | 17.00 |
| 18 | 18.00 |
| 19 | 19.00 |
| 20 | 20.00 |
| 21 | 21.00 |
| 22 | 22.00 |
| 23 | 23.00 |
| 24 | 24.00 |
| 25 | 25.00 |
| 26 | 26.00 |
| 27 | 27.00 |
| 28 | 28.00 |
| 29 | 29.00 |
| 30 | 30.00 |
| 31 | 31.00 |
| 32 | 32.00 |
| 33 | 33.00 |
| 34 | 34.00 |
| 35 | 35.00 |

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 36 | 36.00 |
| 37 | 37.00 |
| 38 | 38.00 |
| 39 | 39.00 |
| 40 | 40.00 |
| 41 | 41.00 |
| 42 | 42.00 |
| 43 | 43.00 |
| 44 | 44.00 |
| 45 | 45.00 |
| 46 | 46.00 |
| 47 | 47.00 |
| 48 | 48.00 |
| 49 | 49.00 |
| 50 | 50.00 |
| 51 | 51.00 |

MATERIAL

| Material Code | Material Description |
|---------------|----------------------|
| STL | Carbon Steel |
| SS | Stainless Steel |
| AL | Aluminum |
| BRS | Brass |
| NYVO | Nylon UL-94 V0 |
| NYV2 | Nylon UL-94-V2 |

LENGTH

| Length | L (Length Code) ±0.13 |
|--------|-----------------------------|
| 1 | 1.00 |
| 2 | 2.00 |
| 3 | 3.00 |
| 4 | 4.00 |
| 5 | 5.00 |
| 6 | 6.00 |
| 7 | 7.00 |
| 8 | 8.00 |
| 9 | 9.00 |
| 10 | 10.00 |
| 11 | 11.0 |

FINISH

| Finish Code | Finish Description |
|-------------|-----------------------------|
| Z | Zinc with Clear Chromate |
| Z-BLK | Zinc with Black Chromate |
| Z-YEL | Zinc with Yellow Chromate |
| NI | Electroplated Bright Nickel |
| BLK-OX | Black Oxide |
| CF | Clear Chemical Film |
| CF-GOLD | Gold Chemical Film |
| P | Passivated |
| PLN | Plain |
| TIN | Electroplated Bright Tin |
| TIN-MATTE | Electroplated Matte Tin |

HSP 19mm Hex Spacers

All dimensions in millimeters.
Custom sizes, materials, and finishes available.