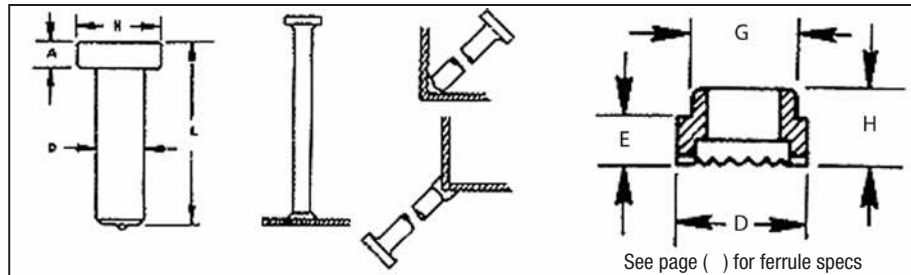


# HCA HEADED CONCRETE ANCHOR

## HEADED CONCRETE ANCHOR – FULL WELD BASE

TYPE HCA STUD  
 TYPE FHD FERRULE SUPPLIED  
 Head Diameter (H) – 1/2" for all 1/4" Headed Concrete Anchors.  
 Head Height (A) – 3/16" for all 1/4" Headed Concrete Anchors.



| WELD STUD SPECIFICATIONS |             |              | WELD STUD PACKAGING  |                        |                         | WELD STUD WEIGHTS |                  |                          |
|--------------------------|-------------|--------------|----------------------|------------------------|-------------------------|-------------------|------------------|--------------------------|
| D<br>Diameter            | L<br>Length | SWP<br>Part# | Pieces<br>Per<br>Box | Boxes<br>Per<br>Pallet | Pieces<br>Per<br>Pallet | Box<br>Weight     | Pallet<br>Weight | 1,000<br>Piece<br>Weight |
| 1/4                      | 1-1/8       | HCA 14 118   | 2,000                | 27                     | 54,000                  | 48 lbs.           | 1,296 lbs.       | 22 lbs.                  |
| 1/4                      | 2-11/16     | HCA 14 21116 | 1,000                | 27                     | 27,000                  | 45 lbs.           | 1,215 lbs.       | 43 lbs.                  |
| 1/4                      | 3-1/8       | HCA 14 318   | 1,000                | 27                     | 27,000                  | 51 lbs.           | 1,377 lbs.       | 50 lbs.                  |
| 1/4                      | 4-1/8       | HCA 14 418   | 600                  | 27                     | 16,200                  | 38 lbs.           | 1,026 lbs.       | 63 lbs.                  |

**Concrete Anchors** are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud diameters 1/4" will be approx. 1/8" shorter after welding. Stud Welding Products concrete anchors can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010-1020. HCA Studs are also available in weldable stainless steel. \*All headed anchors meet AWS specifications D1.1 and D1.5. Test reports available upon request. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

### Mechanical Property Requirements

|                           | Type A          | Type B          |
|---------------------------|-----------------|-----------------|
| Tensile Strength          | 61,000 psi min. | 65,000 psi min. |
| Yield Strength            | 49,000 psi min. | 51,000 psi min. |
| Elongation (% in 2 in.)   | 17% min.        | 20% min.        |
| Elongation (% in 5x dia.) | 14% min.        | 15% min.        |
| Reduction of Area         | 50% min.        | 50% min.        |

Type A Studs are general purpose studs.

Type B Studs are headed, bent, or of other configuration that are used as an essential component in composite beam design and construction.

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# HCA HEADED CONCRETE ANCHOR

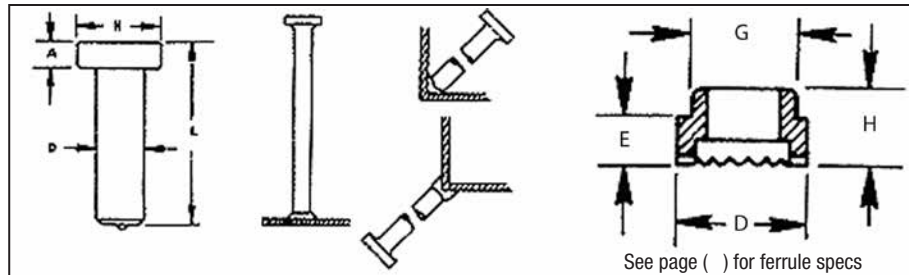
## HEADED CONCRETE ANCHOR – FULL WELD BASE

### TYPE HCA STUD

TYPE FHD FERRULE SUPPLIED

Head Diameter (H) – 3/4" for all 3/8" Headed Concrete Anchors.

Head Height (A) – 9/32" for all 3/8" Headed Concrete Anchors.



| WELD STUD SPECIFICATIONS |             |              | WELD STUD PACKAGING  |                        |                         | WELD STUD WEIGHTS |                  |                          |
|--------------------------|-------------|--------------|----------------------|------------------------|-------------------------|-------------------|------------------|--------------------------|
| D<br>Diameter            | L<br>Length | SWP<br>Part# | Pieces<br>Per<br>Box | Boxes<br>Per<br>Pallet | Pieces<br>Per<br>Pallet | Box<br>Weight     | Pallet<br>Weight | 1,000<br>Piece<br>Weight |
| 3/8                      | 1-3/8       | HCA 38 138   | 1,000                | 27                     | 27,000                  | 70 lbs.           | 1,890 lbs.       | 68 lbs.                  |
| 3/8                      | 1-5/8       | HCA 38 158   | 1,000                | 27                     | 27,000                  | 79 lbs.           | 2,133 lbs.       | 77 lbs.                  |
| 3/8                      | 2-1/8       | HCA 38 218   | 700                  | 27                     | 18,900                  | 67 lbs.           | 1,809 lbs.       | 92 lbs.                  |
| 3/8                      | 2-5/8       | HCA 38 258   | 600                  | 27                     | 16,200                  | 66 lbs.           | 1,782 lbs.       | 111 lbs.                 |
| 3/8                      | 3-1/8       | HCA 38 318   | 500                  | 27                     | 13,500                  | 62 lbs.           | 1,674 lbs.       | 124 lbs.                 |
| 3/8                      | 4-1/8       | HCA 38 418   | 350                  | 27                     | 9,450                   | 55 lbs.           | 1,485 lbs.       | 154 lbs.                 |
| 3/8                      | 5-1/8       | HCA 38 518   | 300                  | 27                     | 8,100                   | 56 lbs.           | 1,512 lbs.       | 185 lbs.                 |
| 3/8                      | 6-1/8       | HCA 38 618   | 200                  | 27                     | 5,400                   | 44 lbs.           | 1,188 lbs.       | 212 lbs.                 |
| 3/8                      | 8-1/8       | HCA 38 818   | 250                  | 9                      | 2,250                   | 69 lbs.           | 1,863 lbs.       | 274 lbs.                 |

**Concrete Anchors** are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud diameters 3/8" will be approx. 1/8" shorter after welding. Stud Welding Products concrete anchors can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010-1020. HCA Studs are also available in weldable stainless steel. \*All headed anchors meet AWS specifications D1.1 and D1.5. Test reports available upon request. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

### Mechanical Property Requirements

|                           | Type A          | Type B          |
|---------------------------|-----------------|-----------------|
| Tensile Strength          | 61,000 psi min. | 65,000 psi min. |
| Yield Strength            | 49,000 psi min. | 51,000 psi min. |
| Elongation (% in 2 in.)   | 17% min.        | 20% min.        |
| Elongation (% in 5x dia.) | 14% min.        | 15% min.        |
| Reduction of Area         | 50% min.        | 50% min.        |

Type A Studs are general purpose studs.

Type B Studs are headed, bent, or of other configuration that are used as an essential component in composite beam design and construction.

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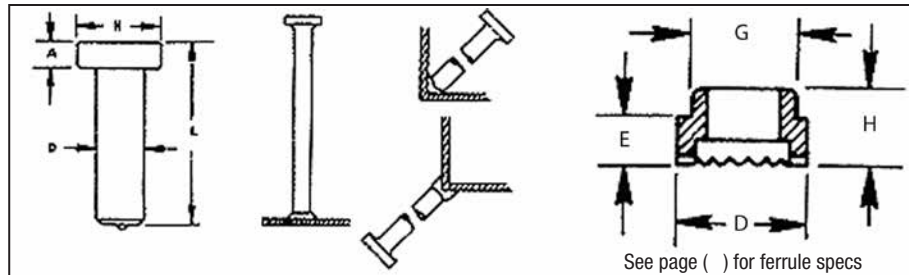
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# HCA HEADED CONCRETE ANCHOR

## HEADED CONCRETE ANCHOR – FULL WELD BASE

### TYPE HCA STUD

TYPE FHD FERRULE SUPPLIED  
 Head Diameter (H) – 1" for all  
 1/2" Headed Concrete Anchors.  
 Head Height (A) – 5/16" for all  
 1/2" Headed Concrete Anchors.



| WELD STUD SPECIFICATIONS |             |              | WELD STUD PACKAGING  |                        |                         | WELD STUD WEIGHTS |                  |                          |
|--------------------------|-------------|--------------|----------------------|------------------------|-------------------------|-------------------|------------------|--------------------------|
| D<br>Diameter            | L<br>Length | SWP<br>Part# | Pieces<br>Per<br>Box | Boxes<br>Per<br>Pallet | Pieces<br>Per<br>Pallet | Box<br>Weight     | Pallet<br>Weight | 1,000<br>Piece<br>Weight |
| 1/2                      | 1-1/8       | HCA 12 118   | 600                  | 27                     | 16,200                  | 68 lbs.           | 1,836 lbs.       | 112 lbs.                 |
| 1/2                      | 1-5/8       | HCA 12 158   | 450                  | 27                     | 12,150                  | 64 lbs.           | 1,728 lbs.       | 138 lbs.                 |
| 1/2                      | 2-1/8       | HCA 12 218   | 400                  | 27                     | 10,800                  | 67 lbs.           | 1,809 lbs.       | 166 lbs.                 |
| 1/2                      | 2-5/8       | HCA 12 258   | 350                  | 27                     | 9,450                   | 71 lbs.           | 1,917 lbs.       | 198 lbs.                 |
| 1/2                      | 3-1/8       | HCA 12 318   | 300                  | 27                     | 8,100                   | 68 lbs.           | 1,836 lbs.       | 223 lbs.                 |
| 1/2                      | 4-1/8       | HCA 12 418   | 200                  | 27                     | 5,400                   | 56 lbs.           | 1,512 lbs.       | 277 lbs.                 |
| 1/2                      | 5-5/16      | HCA 12 5516  | 150                  | 27                     | 4,050                   | 52 lbs.           | 1,404 lbs.       | 339 lbs.                 |
| 1/2                      | 6-1/8       | HCA 12 618   | 125                  | 27                     | 3,375                   | 49 lbs.           | 1,323 lbs.       | 388 lbs.                 |
| 1/2                      | 8-1/8       | HCA 12 818   | 100                  | 27                     | 2,700                   | 50 lbs.           | 1,350 lbs.       | 495 lbs.                 |
| 1/2                      | 10-1/8      | HCA 12 1018  | 75                   | 27                     | 2,025                   | 51 lbs.           | 1,377 lbs.       | 680 lbs.                 |
| 1/2                      | 12-1/8      | HCA 12 1218  | 2000                 | 1                      | 2,000                   | 1,434 lbs.        | 1,434 lbs.       | 717 lbs.                 |

**Concrete Anchors** are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud diameters 1/2" will be approx. 1/8" shorter after welding. Stud Welding Products concrete anchors can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010-1020. HCA Studs are also available in weldable stainless steel. \*All headed anchors meet AWS specifications D1.1 and D1.5. Test reports available upon request. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

### Mechanical Property Requirements

|                           | Type A          | Type B          |
|---------------------------|-----------------|-----------------|
| Tensile Strength          | 61,000 psi min. | 65,000 psi min. |
| Yield Strength            | 49,000 psi min. | 51,000 psi min. |
| Elongation (% in 2 in.)   | 17% min.        | 20% min.        |
| Elongation (% in 5x dia.) | 14% min.        | 15% min.        |
| Reduction of Area         | 50% min.        | 50% min.        |

Type A Studs are general purpose studs.

Type B Studs are headed, bent, or of other configuration that are used as an essential component in composite beam design and construction.

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# HCA HEADED CONCRETE ANCHOR

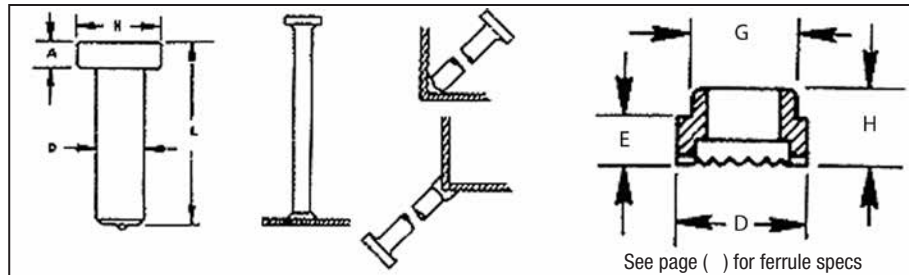
## HEADED CONCRETE ANCHOR – FULL WELD BASE

TYPE HCA STUD

TYPE FHD FERRULE SUPPLIED

Head Diameter (H) – 1-1/4" for all 5/8" Headed Concrete Anchors.

Head Height (A) – 5/16" for all 5/8" Headed Concrete Anchors.



See page ( ) for ferrule specs

| WELD STUD SPECIFICATIONS |             |              | WELD STUD PACKAGING  |                        |                         | WELD STUD WEIGHTS |                  |                          |
|--------------------------|-------------|--------------|----------------------|------------------------|-------------------------|-------------------|------------------|--------------------------|
| D<br>Diameter            | L<br>Length | SWP<br>Part# | Pieces<br>Per<br>Box | Boxes<br>Per<br>Pallet | Pieces<br>Per<br>Pallet | Box<br>Weight     | Pallet<br>Weight | 1,000<br>Piece<br>Weight |
| 5/8                      | 1-7/16      | HCA 58 1716  | 400                  | 27                     | 10,800                  | 85 lbs.           | 2,295 lbs.       | 208 lbs.                 |
| 5/8                      | 1-11/16     | HCA 58 11116 | 325                  | 27                     | 8,775                   | 77 lbs.           | 2,079 lbs.       | 227 lbs.                 |
| 5/8                      | 2-3/16      | HCA 58 2316  | 250                  | 27                     | 6,750                   | 71 lbs.           | 1,917 lbs.       | 270 lbs.                 |
| 5/8                      | 2-11/16     | HCA 58 21116 | 250                  | 27                     | 6,750                   | 81 lbs.           | 2,187 lbs.       | 319 lbs.                 |
| 5/8                      | 3-3/16      | HCA 58 3316  | 200                  | 27                     | 5,400                   | 75 lbs.           | 2,025 lbs.       | 363 lbs.                 |
| 5/8                      | 3-11/16     | HCA 58 31116 | 150                  | 27                     | 4,050                   | 75 lbs.           | 1,674 lbs.       | 398 lbs.                 |
| 5/8                      | 4-3/16      | HCA 58 4316  | 150                  | 27                     | 4,050                   | 62 lbs.           | 1,863 lbs.       | 444 lbs.                 |
| 5/8                      | 4-11/16     | HCA 58 41116 | 125                  | 27                     | 3,375                   | 69 lbs.           | 1,701 lbs.       | 487 lbs.                 |
| 5/8                      | 5-3/16      | HCA 58 5316  | 100                  | 27                     | 2,700                   | 55 lbs.           | 1,485 lbs.       | 528 lbs.                 |
| 5/8                      | 6-9/16      | HCA 58 6916  | 90                   | 27                     | 2,430                   | 55 lbs.           | 1,485 lbs.       | 604 lbs.                 |
| 5/8                      | 8-3/16      | HCA 58 8316  | 80                   | 27                     | 2,160                   | 52 lbs.           | 1,404 lbs.       | 646 lbs.                 |
| 5/8                      | 9-3/16      | HCA 58 9316  | 150                  | 9                      | 1,350                   | 117 lbs.          | 1,053 lbs.       | 781 lbs.                 |
| 5/8                      | 10-3/16     | HCA 58 10316 | 100                  | 9                      | 900                     | 98 lbs.           | 882 lbs.         | 949 lbs.                 |

**Concrete Anchors** are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud diameters 5/8" will be approx. 3/16" shorter after welding. Stud Welding Products concrete anchors can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010-1020. HCA Studs are also available in weldable stainless steel. \*All headed anchors meet AWS specifications D1.1 and D1.5. Test reports available upon request. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

### Mechanical Property Requirements

|                           | Type A          | Type B          |
|---------------------------|-----------------|-----------------|
| Tensile Strength          | 61,000 psi min. | 65,000 psi min. |
| Yield Strength            | 49,000 psi min. | 51,000 psi min. |
| Elongation (% in 2 in.)   | 17% min.        | 20% min.        |
| Elongation (% in 5x dia.) | 14% min.        | 15% min.        |
| Reduction of Area         | 50% min.        | 50% min.        |

Type A Studs are general purpose studs.

Type B Studs are headed, bent, or of other configuration that are used as an essential component in composite beam design and construction.

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# HSC HEADED SHEAR CONNECTOR

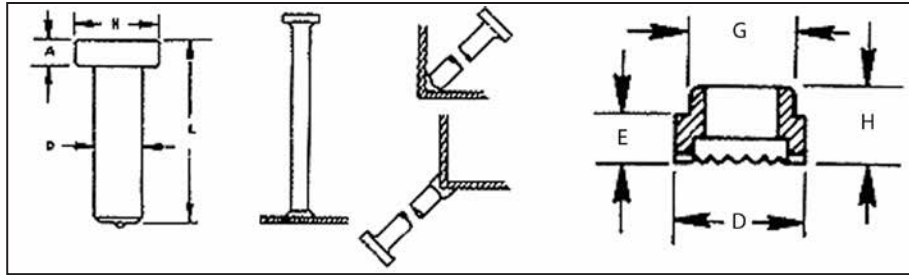
## SHEAR CONNECTOR – FULL WELD BASE

TYPE HSC STUD

TYPE F FERRULE SUPPLIED

Head Diameter (H) – 1-1/4" for all 3/4" headed Shear Connectors.

Head Height (A) – 3/8" for all 3/4" headed Shear Connectors.



| WELD STUD SPECIFICATIONS |             |              | WELD STUD PACKAGING  |                        |                         | WELD STUD WEIGHTS |                  |                          |
|--------------------------|-------------|--------------|----------------------|------------------------|-------------------------|-------------------|------------------|--------------------------|
| D<br>Diameter            | L<br>Length | SWP<br>Part# | Pieces<br>Per<br>Box | Boxes<br>Per<br>Pallet | Pieces<br>Per<br>Pallet | Box<br>Weight     | Pallet<br>Weight | 1,000<br>Piece<br>Weight |
| 3/4                      | 2.2         | HSC 34 2.20  | 200                  | 48                     | 9600                    | 71 lbs            | 3408 lbs         | 340 lbs                  |
| 3/4                      | 3-3/16      | HSC 34 3316  | 125                  | 48                     | 6,000                   | 60 lbs.           | 2,880 lbs.       | 478 lbs.                 |
| 3/4                      | 3-3/8       | HSC 34 338   | 125                  | 48                     | 6,000                   | 62 lbs.           | 2,976 lbs.       | 500 lbs.                 |
| 3/4                      | 3-11/16     | HSC 34 31116 | 100                  | 48                     | 4,800                   | 55 lbs.           | 2,640 lbs.       | 548 lbs.                 |
| 3/4                      | 3-7/8       | HSC 34 378   | 100                  | 48                     | 4,800                   | 58 lbs.           | 2,784 lbs.       | 567 lbs.                 |
| 3/4                      | 4-3/16      | HSC 34 4316  | 100                  | 48                     | 4,800                   | 63 lbs.           | 3,024 lbs.       | 600 lbs.                 |
| 3/4                      | 4-3/8       | HSC 34 438   | 100                  | 48                     | 4,800                   | 62 lbs.           | 2,976 lbs.       | 634 lbs.                 |
| 3/4                      | 4-11/16     | HSC 34 41116 | 75                   | 27                     | 2,025                   | 51 lbs.           | 1,377 lbs.       | 672 lbs.                 |
| 3/4                      | 4-7/8       | HSC 34 478   | 75                   | 48                     | 3,600                   | 51 lbs.           | 2,448 lbs.       | 701 lbs.                 |
| 3/4                      | 5-3/16      | HSC 34 5316  | 60                   | 48                     | 2,880                   | 43 lbs.           | 2,064 lbs.       | 735 lbs.                 |
| 3/4                      | 5-3/8       | HSC 34 538   | 60                   | 48                     | 2,880                   | 45 lbs.           | 2,160 lbs.       | 754 lbs.                 |
| 3/4                      | 5-11/16     | HSC 34 51116 | 60                   | 48                     | 2,880                   | 47 lbs.           | 2,256 lbs.       | 783 lbs.                 |
| 3/4                      | 5-7/8       | HSC 34 578   | 60                   | 48                     | 2,880                   | 49 lbs.           | 2,352 lbs.       | 810 lbs.                 |
| 3/4                      | 6-3/16      | HSC 34 6316  | 60                   | 48                     | 2,880                   | 51 lbs.           | 2,448 lbs.       | 852 lbs.                 |
| 3/4                      | 6-3/8       | HSC 34 638   | 60                   | 48                     | 2,880                   | 53 lbs.           | 2,544 lbs.       | 883 lbs.                 |
| 3/4                      | 6-11/16     | HSC 34 61116 | 80                   | 27                     | 2,160                   | 75 lbs.           | 2,025 lbs.       | 938 lbs.                 |
| 3/4                      | 7-3/16      | HSC 34 7316  | 60                   | 27                     | 1,620                   | 59 lbs.           | 1,593 lbs.       | 968 lbs.                 |
| 3/4                      | 8-3/16      | HSC 34 8316  | 50                   | 27                     | 1,350                   | 56 lbs.           | 1,512 lbs.       | 1,105 lbs.               |
| 3/4                      | 9-3/16      | HSC 34 9316  | 100                  | 9                      | 900                     | 123 lbs.          | 1,107 lbs.       | 1,222 lbs.               |
| 3/4                      | 10-3/16     | HSC 34 10316 | 100                  | 9                      | 900                     | 137 lbs.          | 1,233 lbs.       | 1,339 lbs.               |
| 3/4                      | 12-3/16     | HSC 34 12316 | 1,100                | 1                      | 1,100                   | 1,760 lbs.        | 1,760 lbs.       | 1,599 lbs.               |
| 3/4                      | 16-3/16     | HSC 34 16316 | 1,000                | 1                      | 1,000                   | 2,000 lbs.        | 2,000 lbs.       | 2,000 lbs.               |

**Shear Connectors** are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud diameters 3/4" will be approx. 3/16" shorter after welding. Stud Welding Products shear connectors can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. HSC Studs are also available in weldable stainless steel. \*All headed anchors meet AWS specifications D1.1 and 1.5. Test reports available upon request. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

| Mechanical Property Requirements |                 |                 |
|----------------------------------|-----------------|-----------------|
|                                  | Type A          | Type B          |
| Tensile Strength                 | 61,000 psi min. | 65,000 psi min. |
| Yield Strength                   | 49,000 psi min. | 51,000 psi min. |
| Elongation (% in 2 in.)          | 17% min.        | 20% min.        |
| Elongation (% in 5x dia.)        | 14% min.        | 15% min.        |
| Reduction of Area                | 50% min.        | 50% min.        |

Type A Studs are general purpose studs.

Type B Studs are headed, bent, or of other configuration that are used as an essential component in composite beam design and construction.

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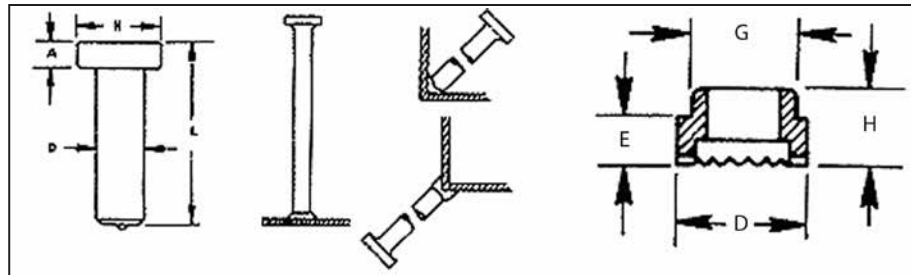
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# HSC HEADED SHEAR CONNECTOR

## SHEAR CONNECTOR – FULL WELD BASE

TYPE HSC STUD  
 TYPE F FERRULE SUPPLIED  
 Head Diameter (H) – 1-3/8" for all 7/8" Shear Connectors.  
 Head Height (A) – 3/8" for all 7/8" Shear Connectors.



| WELD STUD SPECIFICATIONS |             |              | WELD STUD PACKAGING  |                        |                         | WELD STUD WEIGHTS |                  |                          |
|--------------------------|-------------|--------------|----------------------|------------------------|-------------------------|-------------------|------------------|--------------------------|
| D<br>Diameter            | L<br>Length | SWP<br>Part# | Pieces<br>Per<br>Box | Boxes<br>Per<br>Pallet | Pieces<br>Per<br>Pallet | Box<br>Weight     | Pallet<br>Weight | 1,000<br>Piece<br>Weight |
| 7/8                      | 3-3/16      | HSC 78 3316  | 100                  | 27                     | 2,700                   | 66 lbs.           | 1,782 lbs.       | 660 lbs.                 |
| 7/8                      | 3-11/16     | HSC 78 3116  | 100                  | 27                     | 2,700                   | 74 lbs.           | 1,998 lbs.       | 709 lbs.                 |
| 7/8                      | 4-3/16      | HSC 78 4316  | 100                  | 27                     | 2,700                   | 80 lbs.           | 2,160 lbs.       | 796 lbs.                 |
| 7/8                      | 5-3/16      | HSC 78 5316  | 75                   | 27                     | 2,025                   | 73 lbs.           | 1,971 lbs.       | 961 lbs.                 |
| 7/8                      | 6-3/16      | HSC 78 6316  | 50                   | 27                     | 1,350                   | 57 lbs.           | 1,539 lbs.       | 1,137 lbs.               |
| 7/8                      | 7-3/16      | HSC 78 7316  | 45                   | 27                     | 1,215                   | 59 lbs.           | 1,593 lbs.       | 1,306 lbs.               |
| 7/8                      | 8-3/16      | HSC 78 8316  | 40                   | 27                     | 1,080                   | 59 lbs.           | 1,593 lbs.       | 1,496 lbs.               |
| 7/8                      | 9-3/16      | HSC 78 9316  | 75                   | 9                      | 675                     | 125 lbs.          | 1,125 lbs.       | 1,666 lbs.               |
| 7/8                      | 10-3/16     | HSC 78 10316 | 75                   | 9                      | 675                     | 135 lbs.          | 1,215 lbs.       | 1,836 lbs.               |
| 7/8                      | 12-3/16     | HSC 78 12316 | 825                  | 1                      | 825                     | 1,793 lbs.        | 1,793 lbs.       | 2,193 lbs.               |

**Shear Connectors** are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud diameters 7/8" will be approx. 3/16" shorter after welding. Stud Welding Products shear connectors can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. HSC Studs are also available in weldable stainless steel. \*All headed anchors meet AWS specifications D1.1 and 1.5. Test reports available upon request. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

### Mechanical Property Requirements

|                           | Type A          | Type B          |
|---------------------------|-----------------|-----------------|
| Tensile Strength          | 61,000 psi min. | 65,000 psi min. |
| Yield Strength            | 49,000 psi min. | 51,000 psi min. |
| Elongation (% in 2 in.)   | 17% min.        | 20% min.        |
| Elongation (% in 5x dia.) | 14% min.        | 15% min.        |
| Reduction of Area         | 50% min.        | 50% min.        |

Type A Studs are general purpose studs.

Type B Studs are headed, bent, or of other configuration that are used as an essential component in composite beam design and construction.

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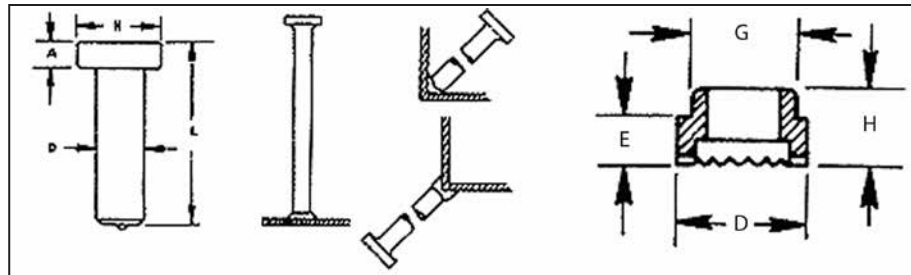
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# HSC HEADED SHEAR CONNECTOR

## SHEAR CONNECTOR – FULL WELD BASE

TYPE HSC STUD  
 TYPE F FERRULE SUPPLIED  
 Head Diameter (H) – 1-5/8" for all 1" Shear Connectors.  
 Head Height (A) – 1/2" for all 1" Shear Connectors.



| WELD STUD SPECIFICATIONS |             |              | WELD STUD PACKAGING  |                        |                         | WELD STUD WEIGHTS |                  |                          |
|--------------------------|-------------|--------------|----------------------|------------------------|-------------------------|-------------------|------------------|--------------------------|
| D<br>Diameter            | L<br>Length | SWP<br>Part# | Pieces<br>Per<br>Box | Boxes<br>Per<br>Pallet | Pieces<br>Per<br>Pallet | Box<br>Weight     | Pallet<br>Weight | 1,000<br>Piece<br>Weight |
| 1"                       | 3-1/4       | HSC 1 314    | 75                   | 27                     | 2,025                   | 70 lbs.           | 1,890 lbs.       | 894 lbs.                 |
| 1"                       | 4-1/4       | HSC 1 414    | 50                   | 27                     | 1,350                   | 57 lbs.           | 1,539 lbs.       | 1,079 lbs.               |
| 1"                       | 5-1/4       | HSC 1 514    | 50                   | 27                     | 1,350                   | 70 lbs.           | 1,890 lbs.       | 1,302 lbs.               |
| 1"                       | 6-1/4       | HSC 1 614    | 40                   | 27                     | 1,080                   | 63 lbs.           | 1,701 lbs.       | 1,514 lbs.               |
| 1"                       | 7-1/4       | HSC 1 714    | 85                   | 9                      | 765                     | 154 lbs.          | 1,386 lbs.       | 1,737 lbs.               |
| 1"                       | 8-1/4       | HSC 1 814    | 85                   | 9                      | 765                     | 173 lbs.          | 1,557 lbs.       | 1,978 lbs.               |
| 1"                       | 9-1/4       | HSC 1 914    | 80                   | 9                      | 720                     | 180 lbs.          | 1,620 lbs.       | 2,193 lbs.               |

**Shear Connectors** are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud diameters 1" will be approx. 1/4" shorter after welding. Stud Welding Products shear connectors can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. HSC Studs are also available in weldable stainless steel. \*All headed anchors meet AWS specifications D1.1 and 1.5. Test reports available upon request. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

### Mechanical Property Requirements

|                           | Type A          | Type B          |
|---------------------------|-----------------|-----------------|
| Tensile Strength          | 61,000 psi min. | 65,000 psi min. |
| Yield Strength            | 49,000 psi min. | 51,000 psi min. |
| Elongation (% in 2 in.)   | 17% min.        | 20% min.        |
| Elongation (% in 5x dia.) | 14% min.        | 15% min.        |
| Reduction of Area         | 50% min.        | 50% min.        |

Type A Studs are general purpose studs.

Type B Studs are headed, bent, or of other configuration that are used as an essential component in composite beam design and construction.

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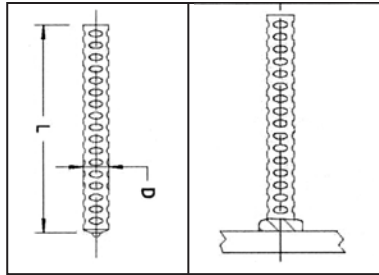
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# DBA DEFORMED BAR ANCHORS

## DEFORMED BAR ANCHORS

TYPE DBA STUD  
NO THREAD – FULL WELD BASE  
TYPE F FERRULE SUPPLIED



| WELD STUD SPECIFICATIONS |             |                | WELD STUD PACKAGING  |                        |                         | WELD STUD WEIGHTS |                  |                          |
|--------------------------|-------------|----------------|----------------------|------------------------|-------------------------|-------------------|------------------|--------------------------|
| D<br>Diameter            | L<br>Length | SWP<br>Part#   | Pieces<br>Per<br>Box | Boxes<br>Per<br>Pallet | Pieces<br>Per<br>Pallet | Box<br>Weight     | Pallet<br>Weight | 1,000<br>Piece<br>Weight |
| 3/8                      | 10-1/8      | DBA 38<br>1018 | 150                  | 18                     | 2,700                   | 46 lbs.           | 828 lbs.         | 288 lbs.                 |
| 3/8                      | 12-1/8      | DBA 38<br>1218 | 150                  | 18                     | 2,700                   | 55 lbs.           | 990 lbs.         | 344 lbs.                 |
| 3/8                      | 18-1/8      | DBA 38<br>1818 | 150                  | 12                     | 1,800                   | 80 lbs.           | 960 lbs.         | 515 lbs.                 |
| 3/8                      | 24-1/8      | DBA 38<br>2418 | 150                  | 8                      | 1,200                   | 108 lbs.          | 864 lbs.         | 685 lbs.                 |
| 3/8                      | 30-1/8      | DBA 38<br>3018 | 150                  | 7                      | 1,050                   | 130 lbs.          | 910 lbs.         | 897 lbs.                 |
| 3/8                      | 36-1/8      | DBA 38<br>3618 | 150                  | 6                      | 900                     | 156 lbs.          | 936 lbs.         | 1,029<br>lbs.            |
| 3/8                      | 48-1/8      | DBA 38<br>4818 | 150                  | 6                      | 900                     | 208 lbs.          | 1,248<br>lbs.    | 1,394<br>lbs.            |

**Deformed Bar Anchors** are designed for weld and bearing plates in concrete connections.

**Length:** Length is before weld. Stud diameters (D) 1/2" and below will be approximately 1/8" shorter after welding. 5/8" and larger will be approximately 3/16" shorter after welding.

**Material:** Low carbon steel, ASTM A496

### Mechanical Property Requirements

|                              | Type C                       |
|------------------------------|------------------------------|
| Tensile Strength             | 80,000 psi min.<br>(552 MPa) |
| Yield Strength (0.5% offset) | 70,000 psi min.<br>(485 MPa) |

Type "C" Studs are cold worked deformed steel bars manufactured in accordance with specification ASTM A496 having nominal diameter equivalent to the diameter of a plain wire having the same weight per foot as the deformed wire. ASTM A496 specifies a maximum diameter of 0.628 in. (16mm). Any bar supplied above that diameter must have the same physical characteristics regarding deformations as required by ASTM A496.

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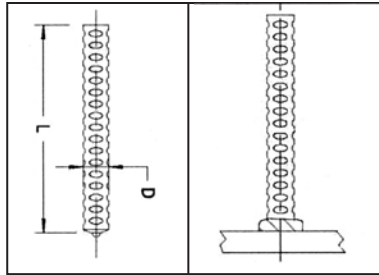
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# DBA DEFORMED BAR ANCHORS

## DEFORMED BAR ANCHORS

TYPE DBA STUD  
NO THREAD – FULL WELD BASE  
TYPE F FERRULE SUPPLIED



| WELD STUD SPECIFICATIONS |             |              | WELD STUD PACKAGING  |                        |                         | WELD STUD WEIGHTS |                  |                          |
|--------------------------|-------------|--------------|----------------------|------------------------|-------------------------|-------------------|------------------|--------------------------|
| D<br>Diameter            | L<br>Length | SWP<br>Part# | Pieces<br>Per<br>Box | Boxes<br>Per<br>Pallet | Pieces<br>Per<br>Pallet | Box<br>Weight     | Pallet<br>Weight | 1,000<br>Piece<br>Weight |
| 1/2                      | 8-1/8       | DBA 12 818   | 100                  | 18                     | 1,800                   | 44 lbs.           | 792 lbs.         | 451 lbs.                 |
| 1/2                      | 10-1/8      | DBA 12 1018  | 100                  | 18                     | 1,800                   | 54 lbs.           | 972 lbs.         | 529 lbs.                 |
| 1/2                      | 12-1/8      | DBA 12 1218  | 100                  | 18                     | 1,800                   | 67 lbs.           | 1,206 lbs.       | 680 lbs.                 |
| 1/2                      | 18-1/8      | DBA 12 1818  | 100                  | 12                     | 1,200                   | 98 lbs.           | 1,176 lbs.       | 972 lbs.                 |
| 1/2                      | 24-1/8      | DBA 12 2418  | 100                  | 8                      | 800                     | 128 lbs.          | 1,024 lbs.       | 1,292 lbs.               |
| 1/2                      | 30-1/8      | DBA 12 3018  | 100                  | 7                      | 700                     | 160 lbs.          | 1,120 lbs.       | 1,560 lbs.               |
| 1/2                      | 36-1/8      | DBA 12 3618  | 100                  | 6                      | 600                     | 192 lbs.          | 1,152 lbs.       | 1,879 lbs.               |
| 1/2                      | 42-1/8      | DBA 12 4218  | 100                  | 6                      | 600                     | 222 lbs.          | 1,332 lbs.       | 2,174 lbs.               |
| 1/2                      | 48-1/8      | DBA 12 4818  | 100                  | 6                      | 600                     | 256 lbs.          | 1,536 lbs.       | 2,502 lbs.               |
| 1/2                      | 60-1/8      | DBA 12 6018  | 100                  | 1                      | 100                     | 314 lbs.          | 314 lbs.         | 3,140 lbs.               |

**Deformed Bar Anchors** are designed for weld and bearing plates in concrete connections.

**Length:** Length is before weld. Stud diameters (D) 1/2" and below will be approximately 1/8" shorter after welding. 5/8" and larger will be approximately 3/16" shorter after welding.

**Material:** Low carbon steel, ASTM A496

### Mechanical Property Requirements

|                              | Type C                       |
|------------------------------|------------------------------|
| Tensile Strength             | 80,000 psi min.<br>(552 MPa) |
| Yield Strength (0.5% offset) | 70,000 psi min.<br>(485 MPa) |

Type "C" Studs are cold worked deformed steel bars manufactured in accordance with specification ASTM A496 having nominal diameter equivalent to the diameter of a plain wire having the same weight per foot as the deformed wire. ASTM A496 specifies a maximum diameter of 0.628 in. (16mm). Any bar supplied above that diameter must have the same physical characteristics regarding deformations as required by ASTM A496.

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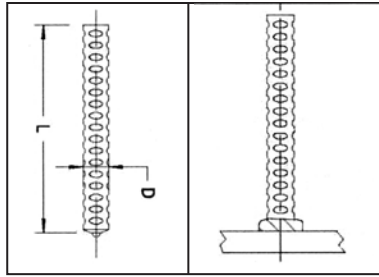
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# DBA DEFORMED BAR ANCHORS

## DEFORMED BAR ANCHORS

TYPE DBA STUD  
NO THREAD – FULL WELD BASE  
TYPE F FERRULE SUPPLIED



| WELD STUD SPECIFICATIONS |             |                 | WELD STUD PACKAGING  |                        |                         | WELD STUD WEIGHTS |                  |                          |
|--------------------------|-------------|-----------------|----------------------|------------------------|-------------------------|-------------------|------------------|--------------------------|
| D<br>Diameter            | L<br>Length | SWP<br>Part#    | Pieces<br>Per<br>Box | Boxes<br>Per<br>Pallet | Pieces<br>Per<br>Pallet | Box<br>Weight     | Pallet<br>Weight | 1,000<br>Piece<br>Weight |
| 5/8                      | 12-3/16     | DBA 58<br>12316 | 50                   | 18                     | 900                     | 51 lbs.           | 918 lbs.         | 997 lbs.                 |
| 5/8                      | 18-3/16     | DBA 58<br>18316 | 50                   | 12                     | 600                     | 76 lbs.           | 912 lbs.         | 1,633<br>lbs.            |
| 5/8                      | 24-3/16     | DBA 58<br>24316 | 50                   | 8                      | 400                     | 102 lbs.          | 816 lbs.         | 2,136<br>lbs.            |
| 5/8                      | 30-3/16     | DBA 58<br>30316 | 50                   | 7                      | 350                     | 126 lbs.          | 882 lbs.         | 2,666<br>lbs.            |
| 5/8                      | 36-3/16     | DBA 58<br>36316 | 50                   | 6                      | 300                     | 151 lbs.          | 906 lbs.         | 3,196<br>lbs.            |
| 5/8                      | 42-3/16     | DBA 58<br>42316 | 50                   | 8                      | 400                     | 176 lbs.          | 1,408<br>lbs.    | 3,482<br>lbs.            |
| 5/8                      | 48-3/16     | DBA 58<br>48316 | 50                   | 6                      | 300                     | 197 lbs.          | 1,182<br>lbs.    | 3,962<br>lbs.            |

**Deformed Bar Anchors** are designed for weld and bearing plates in concrete connections.

**Length:** Length is before weld. Stud diameters (D) 1/2" and below will be approximately 1/8" shorter after welding. 5/8" and larger will be approximately 3/16" shorter after welding.

**Material:** Low carbon steel, ASTM A496

### Mechanical Property Requirements

|                              | Type C                       |
|------------------------------|------------------------------|
| Tensile Strength             | 80,000 psi min.<br>(552 MPa) |
| Yield Strength (0.5% offset) | 70,000 psi min.<br>(485 MPa) |

Type "C" Studs are cold worked deformed steel bars manufactured in accordance with specification ASTM A496 having nominal diameter equivalent to the diameter of a plain wire having the same weight per foot as the deformed wire. ASTM A496 specifies a maximum diameter of 0.628 in. (16mm). Any bar supplied above that diameter must have the same physical characteristics regarding deformations as required by ASTM A496.

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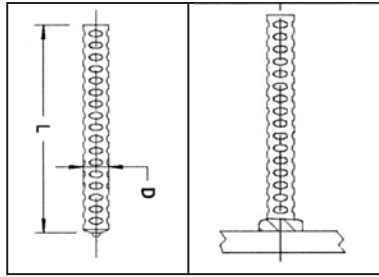
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# DBA DEFORMED BAR ANCHORS

## DEFORMED BAR ANCHORS

TYPE DBA STUD  
NO THREAD – FULL WELD BASE  
TYPE F FERRULE SUPPLIED



| WELD STUD SPECIFICATIONS |             |                 | WELD STUD PACKAGING  |                        |                         | WELD STUD WEIGHTS |                  |                          |
|--------------------------|-------------|-----------------|----------------------|------------------------|-------------------------|-------------------|------------------|--------------------------|
| D<br>Diameter            | L<br>Length | SWP<br>Part#    | Pieces<br>Per<br>Box | Boxes<br>Per<br>Pallet | Pieces<br>Per<br>Pallet | Box<br>Weight     | Pallet<br>Weight | 1,000<br>Piece<br>Weight |
| 3/4                      | 12-3/16     | DBA 34<br>12316 | 40                   | 18                     | 720                     | 60 lbs.           | 1,080<br>lbs.    | 1,525<br>lbs.            |
| 3/4                      | 18-3/16     | DBA 34<br>18316 | 40                   | 12                     | 480                     | 87 lbs.           | 1,044<br>lbs.    | 2,276<br>lbs.            |
| 3/4                      | 24-3/16     | DBA 34<br>24316 | 40                   | 8                      | 320                     | 115 lbs.          | 920 lbs.         | 3,027<br>lbs.            |
| 3/4                      | 30-3/16     | DBA 34<br>30316 | 40                   | 6                      | 240                     | 142 lbs.          | 852 lbs.         | 3,778<br>lbs.            |
| 3/4                      | 36-3/16     | DBA 34<br>36316 | 40                   | 6                      | 240                     | 175 lbs.          | 1,050<br>lbs.    | 4,529<br>lbs.            |
| 3/4                      | 42-3/16     | DBA 34<br>42316 | 40                   | 6                      | 240                     | 205 lbs.          | 1,230<br>lbs.    | 5,125<br>lbs.            |
| 3/4                      | 48-3/16     | DBA 34<br>48316 | 40                   | 6                      | 240                     | 226 lbs.          | 1,356<br>lbs.    | 5,650<br>lbs.            |

**Deformed Bar Anchors** are designed for weld and bearing plates in concrete connections.

**Length:** Length is before weld. Stud diameters (D) 1/2" and below will be approximately 1/8" shorter after welding. 5/8" and larger will be approximately 3/16" shorter after welding.

**Material:** Low carbon steel, ASTM A496

### Mechanical Property Requirements

|                              | Type C                       |
|------------------------------|------------------------------|
| Tensile Strength             | 80,000 psi min.<br>(552 MPa) |
| Yield Strength (0.5% offset) | 70,000 psi min.<br>(485 MPa) |

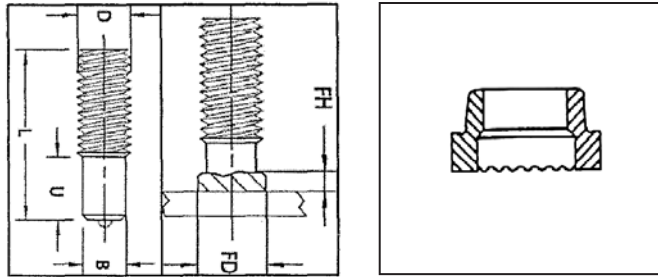
Type "C" Studs are cold worked deformed steel bars manufactured in accordance with specification ASTM A496 having nominal diameter equivalent to the diameter of a plain wire having the same weight per foot as the deformed wire. ASTM A496 specifies a maximum diameter of 0.628 in. (16mm). Any bar supplied above that diameter must have the same physical characteristics regarding deformations as required by ASTM A496.

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# PCP PARTIAL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part# | B<br>Base<br>Diameter | U<br>Minimum<br>Base Length | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000<br>Piece<br>Weight |
|---------------|-------------|--------------|-----------------------|-----------------------------|-------------------------------|-----------------------------|------------------------|--------------------------|
| 1/4-20        | 7/8         | PCP 1420 78  | .215                  | 3/8                         | 5/16                          | 3/32                        | FER04-P                | 8.3 lbs.                 |
| 1/4-20        | 1           | PCP 1420 1   | .215                  | 3/8                         | 5/16                          | 3/32                        | FER04-P                | 11 lbs.                  |
| 1/4-20        | 1-1/8       | PCP 1420 118 | .215                  | 3/8                         | 5/16                          | 3/32                        | FER04-P                | 13.8 lbs.                |
| 1/4-20        | 1-1/4       | PCP 1420 114 | .215                  | 3/8                         | 5/16                          | 3/32                        | FER04-P                | 13.8 lbs.                |
| 1/4-20        | 1-3/8       | PCP 1420 138 | .215                  | 3/8                         | 5/16                          | 3/32                        | FER04-P                | 16.5 lbs.                |
| 1/4-20        | 1-1/2       | PCP 1420 112 | .215                  | 3/8                         | 5/16                          | 3/32                        | FER04-P                | 16.5 lbs.                |
| 1/4-20        | 1-5/8       | PCP 1420 158 | .215                  | 3/8                         | 5/16                          | 3/32                        | FER04-P                | 19.3 lbs.                |
| 1/4-20        | 1-3/4       | PCP 1420 134 | .215                  | 3/8                         | 5/16                          | 3/32                        | FER04-P                | 19.3 lbs.                |
| 1/4-20        | 2           | PCP 1420 2   | .215                  | 3/8                         | 5/16                          | 3/32                        | FER04-P                | 22 lbs.                  |
| 1/4-20        | 2-1/8       | PCP 1420 218 | .215                  | 3/8                         | 5/16                          | 3/32                        | FER04-P                | 24.8 lbs.                |
| 1/4-20        | 3-3/8       | PCP 1420 338 | .215                  | 3/8                         | 5/16                          | 3/32                        | FER04-P                | 38.5 lbs.                |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Partial Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCP studs are also available in weld able stainless steel. Type 302 is the most commonly used, however other grades such as 302, 304, 316, 321, 310, and 430 are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

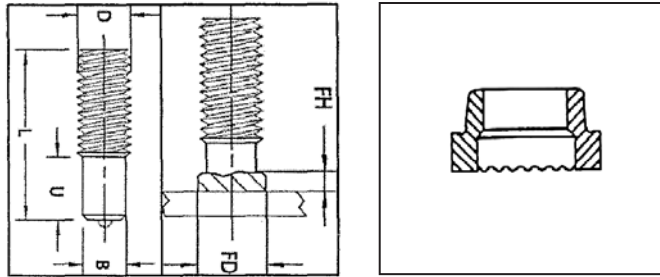
| HOW TO ORDER  |
|---|
| Specify diameter, thread size before weld (BW) length, type of material.                                    |
| <b>EXAMPLE</b>  |
| 1/2-13 x 1-1/8" (BW) partial thread (PCP), mild steel   |
| When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel |
| 1/4-20x1"= PCPSS 1420 1   |

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# PCP PARTIAL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part#     | B<br>Base<br>Diameter | U<br>Minimum<br>Base Length | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000<br>Piece<br>Weight |
|---------------|-------------|------------------|-----------------------|-----------------------------|-------------------------------|-----------------------------|------------------------|--------------------------|
| 5/16-18       | 7/8         | PCP 51618 78     | .275                  | 3/8                         | 13/32                         | 7/64                        | FER05-P                | 17 lbs.                  |
| 5/16-18       | 1           | PCP 51618 1      | .275                  | 3/8                         | 13/32                         | 7/64                        | FER05-P                | 17 lbs.                  |
| 5/16-18       | 1-1/8       | PCP 51618<br>118 | .275                  | 3/8                         | 13/32                         | 7/64                        | FER05-P                | 21.3 lbs.                |
| 5/16-18       | 1-1/4       | PCP 51618<br>114 | .275                  | 3/8                         | 13/32                         | 7/64                        | FER05-P                | 21.3 lbs.                |
| 5/16-18       | 1-3/8       | PCP 51618<br>138 | .275                  | 3/8                         | 13/32                         | 7/64                        | FER05-P                | 25.5 lbs.                |
| 5/16-18       | 1-1/2       | PCP 51618<br>112 | .275                  | 3/8                         | 13/32                         | 7/64                        | FER05-P                | 25.5 lbs.                |
| 5/16-18       | 1-5/8       | PCP 51618<br>158 | .275                  | 3/8                         | 13/32                         | 7/64                        | FER05-P                | 29.8 lbs.                |
| 5/16-18       | 1-3/4       | PCP 51618<br>134 | .275                  | 3/8                         | 13/32                         | 7/64                        | FER05-P                | 29.8 lbs.                |
| 5/16-18       | 2           | PCP 51618 2      | .275                  | 3/8                         | 13/32                         | 7/64                        | FER05-P                | 34 lbs.                  |
| 5/16-18       | 3           | PCP 51618 3      | .275                  | 3/8                         | 13/32                         | 7/64                        | FER05-P                | 51 lbs.                  |
| 5/16-18       | 4           | PCP 51618 4      | .275                  | 3/8                         | 13/32                         | 7/64                        | FER05-P                | 68 lbs.                  |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Partial Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCP studs are also available in weld able stainless steel. Type 302 is the most commonly used, however other grades such as 302, 304, 316, 321, 310, and 430 are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

#### HOW TO ORDER

Specify diameter, thread size before weld (BW) length, type of material.

#### EXAMPLE

1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  
When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel  
1/4-20x1" = PCPSS 1420 1

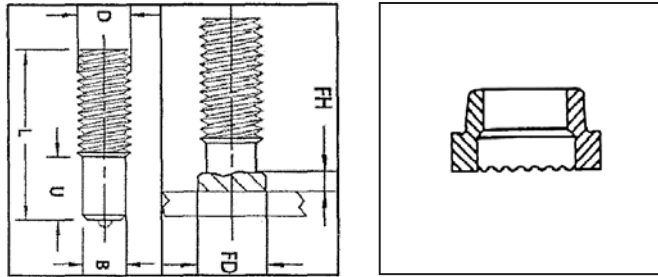
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# PCP PARTIAL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part# | B<br>Base<br>Diameter | U<br>Minimum<br>Base Length | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000<br>Piece<br>Weight |
|---------------|-------------|--------------|-----------------------|-----------------------------|-------------------------------|-----------------------------|------------------------|--------------------------|
| 3/8-16        | 7/8         | PCP 3816 78  | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 25 lbs.                  |
| 3/8-16        | 1           | PCP 3816 1   | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 25 lbs.                  |
| 3/8-16        | 1-1/8       | PCP 3816 118 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 31.3 lbs.                |
| 3/8-16        | 1-3/8       | PCP 3816 138 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 37.5 lbs.                |
| 3/8-16        | 1-1/2       | PCP 3816 112 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 37.5 lbs.                |
| 3/8-16        | 1-5/8       | PCP 3816 158 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 43.8 lbs.                |
| 3/8-16        | 1-3/4       | PCP 3816 134 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 43.8 lbs.                |
| 3/8-16        | 2           | PCP 3816 2   | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 50 lbs.                  |
| 3/8-16        | 2-1/8       | PCP 3816 218 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 56.3 lbs.                |
| 3/8-16        | 2-1/4       | PCP 3816 214 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 56.3 lbs.                |
| 3/8-16        | 2-3/8       | PCP 3816 238 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 62.5 lbs.                |
| 3/8-16        | 2-1/2       | PCP 3816 212 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 62.5 lbs.                |
| 3/8-16        | 2-5/8       | PCP 3816 258 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 68.8 lbs.                |
| 3/8-16        | 2-3/4       | PCP 3816 234 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 68.8 lbs.                |
| 3/8-16        | 2-7/8       | PCP 3816 278 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 75 lbs.                  |
| 3/8-16        | 3           | PCP 3816 3   | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 75 lbs.                  |
| 3/8-16        | 3-1/8       | PCP 3816 318 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 81.3 lbs.                |
| 3/8-16        | 3-1/2       | PCP 3816 312 | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 87.5 lbs.                |
| 3/8-16        | 4           | PCP 3816 4   | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 100 lbs.                 |
| 3/8-16        | 5           | PCP 3816 5   | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 125 lbs.                 |
| 3/8-16        | 6           | PCP 3816 6   | .330                  | 13/32                       | 7/16                          | 7/64                        | FER06-P                | 150 lbs.                 |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Partial Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCP studs are also available in weld able stainless steel. Type 302 is the most commonly used, however other grades such as 302, 304, 316, 321, 310, and 430 are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

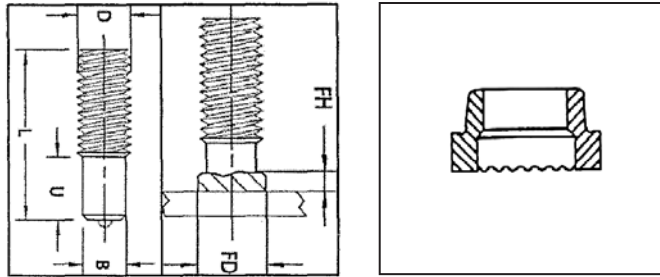
| HOW TO ORDER  |
|---|
| Specify diameter, thread size before weld (BW) length, type of material.  |
| <b>EXAMPLE</b>  |
| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  |
| When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1 |

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# PCP PARTIAL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part# | B<br>Base<br>Diameter | U<br>Minimum<br>Base Length | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000<br>Piece<br>Weight |
|---------------|-------------|--------------|-----------------------|-----------------------------|-------------------------------|-----------------------------|------------------------|--------------------------|
| 1/2-13        | 1           | PCP 1213 1   | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 46 lbs.                  |
| 1/2-13        | 1-1/8       | PCP 1213 118 | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 57.5 lbs.                |
| 1/2-13        | 1-1/2       | PCP 1213 112 | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 69 lbs.                  |
| 1/2-13        | 2           | PCP 1213 2   | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 92 lbs.                  |
| 1/2-13        | 2-1/2       | PCP 1213 212 | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 115 lbs.                 |
| 1/2-13        | 3           | PCP 1213 3   | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 138 lbs.                 |
| 1/2-13        | 3-1/2       | PCP 1213 312 | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 161 lbs.                 |
| 1/2-13        | 4           | PCP 1213 4   | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 184 lbs.                 |
| 1/2-13        | 4-1/2       | PCP 1213 4   | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 207 lbs.                 |
| 1/2-13        | 5           | PCP 1213 5   | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 230 lbs.                 |
| 1/2-13        | 5-1/2       | PCP 1213 512 | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 253 lbs.                 |
| 1/2-13        | 6           | PCP 1213 6   | .448                  | 1/2                         | 19/32                         | 5/32                        | FER08-P                | 276 lbs.                 |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Partial Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCP studs are also available in weld able stainless steel. Type 302 is the most commonly used, however other grades such as 302, 304, 316, 321, 310, and 430 are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

**HOW TO ORDER**

Specify diameter, thread size before weld (BW) length, type of material.

**EXAMPLE**

1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel

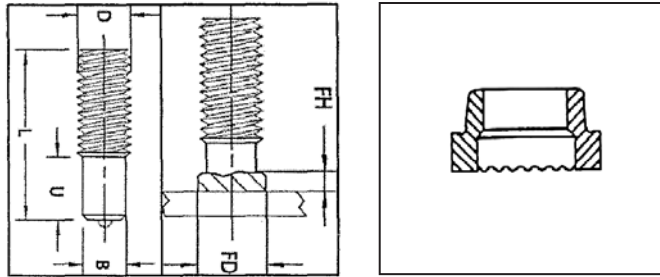
When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1

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# PCP PARTIAL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part# | B<br>Base<br>Diameter | U<br>Minimum<br>Base Length | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000<br>Piece<br>Weight |
|---------------|-------------|--------------|-----------------------|-----------------------------|-------------------------------|-----------------------------|------------------------|--------------------------|
| 5/8-11        | 1-1/4       | PCP 5811 114 | .562                  | 5/8                         | 3/4                           | 3/16                        | FER10-P                | 87.5 lbs.                |
| 5/8-11        | 1-1/2       | PCP 5811 112 | .562                  | 5/8                         | 3/4                           | 3/16                        | FER10-P                | 105 lbs.                 |
| 5/8-11        | 2           | PCP 5811 2   | .562                  | 5/8                         | 3/4                           | 3/16                        | FER10-P                | 140 lbs.                 |
| 5/8-11        | 2-1/2       | PCP 5811 212 | .562                  | 5/8                         | 3/4                           | 3/16                        | FER10-P                | 175 lbs.                 |
| 5/8-11        | 3           | PCP 5811 3   | .562                  | 5/8                         | 3/4                           | 3/16                        | FER10-P                | 210 lbs.                 |
| 5/8-11        | 3-1/2       | PCP 5811 312 | .562                  | 5/8                         | 3/4                           | 3/16                        | FER10-P                | 245 lbs.                 |
| 5/8-11        | 4           | PCP 5811 4   | .562                  | 5/8                         | 3/4                           | 3/16                        | FER10-P                | 280 lbs.                 |
| 5/8-11        | 5           | PCP 5811 5   | .562                  | 5/8                         | 3/4                           | 3/16                        | FER10-P                | 350 lbs.                 |
| 5/8-11        | 5-1/2       | PCP 5811 512 | .562                  | 5/8                         | 3/4                           | 3/16                        | FER10-P                | 385 lbs.                 |
| 5/8-11        | 6           | PCP 5811 6   | .562                  | 5/8                         | 3/4                           | 3/16                        | FER10-P                | 420 lbs.                 |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Partial Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCP studs are also available in weld able stainless steel. Type 302 is the most commonly used, however other grades such as 302, 304, 316, 321, 310, and 430 are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

#### HOW TO ORDER

Specify diameter, thread size before weld (BW) length, type of material.

#### EXAMPLE

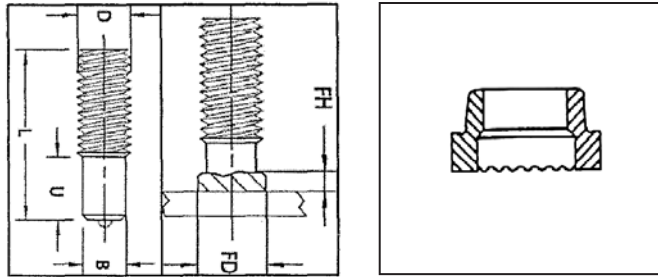
1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  
When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1

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# PCP PARTIAL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part# | B<br>Base<br>Diameter | U<br>Minimum<br>Base Length | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000<br>Piece<br>Weight |
|---------------|-------------|--------------|-----------------------|-----------------------------|-------------------------------|-----------------------------|------------------------|--------------------------|
| 3/4-10        | 1-1/2       | PCP 3410 112 | .680                  | 13/16                       | 7/8                           | 1/4                         | FER12-P                | 160.5 lbs.               |
| 3/4-10        | 2           | PCP 3410 2   | .680                  | 13/16                       | 7/8                           | 1/4                         | FER12-P                | 214 lbs.                 |
| 3/4-10        | 2-1/2       | PCP 3410 212 | .680                  | 13/16                       | 7/8                           | 1/4                         | FER12-P                | 267.5 lbs.               |
| 3/4-10        | 3           | PCP 3410 3   | .680                  | 13/16                       | 7/8                           | 1/4                         | FER12-P                | 321 lbs.                 |
| 3/4-10        | 3-1/2       | PCP 3410 312 | .680                  | 13/16                       | 7/8                           | 1/4                         | FER12-P                | 374.5 lbs.               |
| 3/4-10        | 4           | PCP 3410 4   | .680                  | 13/16                       | 7/8                           | 1/4                         | FER12-P                | 428 lbs.                 |
| 3/4-10        | 4-1/2       | PCP 3410 412 | .680                  | 13/16                       | 7/8                           | 1/4                         | FER12-P                | 481.5 lbs.               |
| 3/4-10        | 5           | PCP 3410 5   | .680                  | 13/16                       | 7/8                           | 1/4                         | FER12-P                | 535 lbs.                 |
| 3/4-10        | 5-1/2       | PCP 3410 512 | .680                  | 13/16                       | 7/8                           | 1/4                         | FER12-P                | 588.5 lbs.               |
| 3/4-10        | 6           | PCP 3410 6   | .680                  | 13/16                       | 7/8                           | 1/4                         | FER12-P                | 642 lbs.                 |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Partial Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCP studs are also available in weld able stainless steel. Type 302 is the most commonly used, however other grades such as 302, 304, 316, 321, 310, and 430 are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

#### HOW TO ORDER

Specify diameter, thread size before weld (BW) length, type of material.

#### EXAMPLE

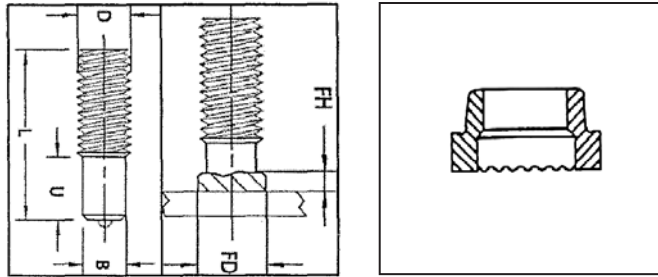
1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  
When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1

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# PCP PARTIAL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part# | B<br>Base<br>Diameter | U<br>Minimum<br>Base Length | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000<br>Piece<br>Weight |
|---------------|-------------|--------------|-----------------------|-----------------------------|-------------------------------|-----------------------------|------------------------|--------------------------|
| 7/8-9         | 2           | PCP 789 2    | .798                  | 7/8                         | 1                             | 5/16                        | FER14-P                | 325 lbs.                 |
| 7/8-9         | 2-1/2       | PCP 789 212  | .798                  | 7/8                         | 1                             | 5/16                        | FER14-P                | 406.3 lbs.               |
| 7/8-9         | 3           | PCP 789 3    | .798                  | 7/8                         | 1                             | 5/16                        | FER14-P                | 487.5 lbs.               |
| 7/8-9         | 3-1/2       | PCP 789 312  | .798                  | 7/8                         | 1                             | 5/16                        | FER14-P                | 568.8 lbs.               |
| 7/8-9         | 4           | PCP 789 4    | .798                  | 7/8                         | 1                             | 5/16                        | FER14-P                | 650 lbs.                 |
| 7/8-9         | 4-1/2       | PCP 789 412  | .798                  | 7/8                         | 1                             | 5/16                        | FER14-P                | 731.3 lbs.               |
| 7/8-9         | 5           | PCP 789 5    | .798                  | 7/8                         | 1                             | 5/16                        | FER14-P                | 812.5 lbs.               |
| 7/8-9         | 5-1/2       | PCP 789 512  | .798                  | 7/8                         | 1                             | 5/16                        | FER14-P                | 893.75<br>lbs.           |
| 7/8-9         | 6           | PCP 789 6    | .798                  | 7/8                         | 1                             | 5/16                        | FER14-P                | 975 lbs.                 |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Partial Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCP studs are also available in weld able stainless steel. Type 302 is the most commonly used, however other grades such as 302, 304, 316, 321, 310, and 430 are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

| HOW TO ORDER  |
|---|
| Specify diameter, thread size before weld (BW) length, type of material.  |
| <b>EXAMPLE</b>  |
| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  |
| When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1 |

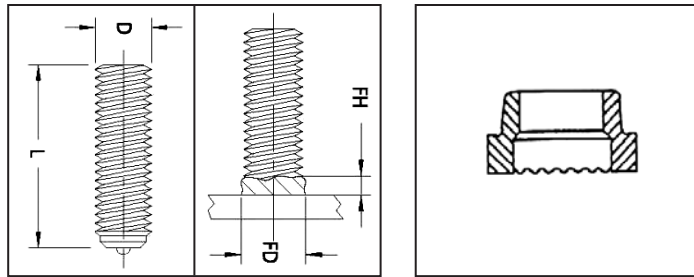
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# PCF FULL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part# | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000<br>Piece<br>Weight |
|---------------|-------------|--------------|-------------------------------|-----------------------------|------------------------|--------------------------|
| 10-24         | 3/4         | PCF 1024 34  | 17/64                         | 7/64                        | FER03-FHD              |                          |
| 10-24         | 7/8         | PCF 1024 78  | 17/64                         | 7/64                        | FER03-FHD              |                          |
| 10-24         | 1           | PCF 1024 1   | 17/64                         | 7/64                        | FER03-FHD              |                          |
| 10-32         | 3/4         | PCF 1032 34  | 17/64                         | 7/64                        | FER03-FHD              |                          |
| 10-32         | 1           | PCF 1032 1   | 17/64                         | 7/64                        | FER03-FHD              |                          |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Full Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding. Stud Welding Products PCF Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCF studs are also available in weldable stainless steel. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

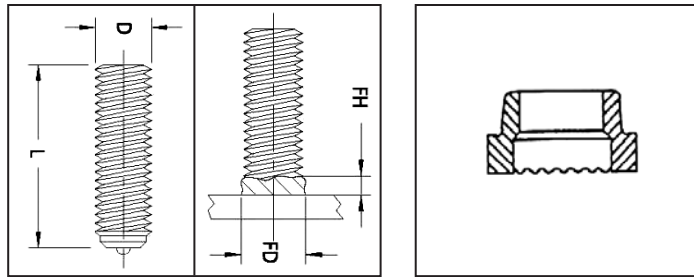
**HOW TO ORDER**  
Specify diameter, thread size before weld (BW) length, type of material.  
**EXAMPLE**  
1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  
When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1

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# PCF FULL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part# | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000 Piece<br>Weight |
|---------------|-------------|--------------|-------------------------------|-----------------------------|------------------------|-----------------------|
| 1/4-20        | 5/8         | PCF 1420 58  | 23/64                         | 7/64                        | FER04-FHD              | 8.3 lbs.              |
| 1/4-20        | 3/4         | PCF 1420 34  | 23/64                         | 7/64                        | FER04-FHD              | 8.3 lbs.              |
| 1/4-20        | 7/8         | PCF 1420 78  | 23/64                         | 7/64                        | FER04-FHD              | 11 lbs.               |
| 1/4-20        | 1           | PCF 1420 1   | 23/64                         | 7/64                        | FER04-FHD              | 11 lbs.               |
| 1/4-20        | 1-1/8       | PCF 1420 118 | 23/64                         | 7/64                        | FER04-FHD              | 13.8 lbs.             |
| 1/4-20        | 1-1/4       | PCF 1420 114 | 23/64                         | 7/64                        | FER04-FHD              | 13.8 lbs.             |
| 1/4-20        | 1-3/8       | PCF 1420 138 | 23/64                         | 7/64                        | FER04-FHD              | 16.5 lbs.             |
| 1/4-20        | 1-1/2       | PCF 1420 112 | 23/64                         | 7/64                        | FER04-FHD              | 16.5 lbs.             |
| 1/4-20        | 1-5/8       | PCF 1420 158 | 23/64                         | 7/64                        | FER04-FHD              | 19.3 lbs.             |
| 1/4-20        | 2           | PCF 1420 2   | 23/64                         | 7/64                        | FER04-FHD              | 22 lbs.               |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Full Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding. Stud Welding Products PCF Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCF studs are also available in weldable stainless steel. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

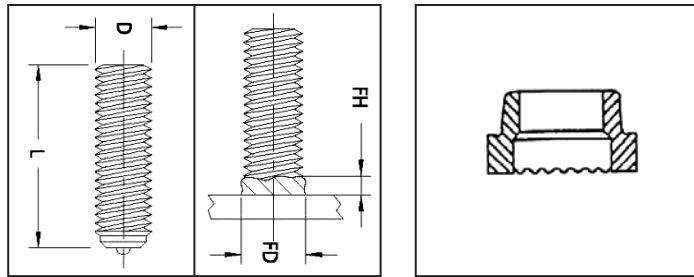
| HOW TO ORDER  |
|---|
| Specify diameter, thread size before weld (BW) length, type of material.  |
| <b>EXAMPLE</b>  |
| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  |
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# PCF FULL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part#  | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000 Piece<br>Weight |
|---------------|-------------|---------------|-------------------------------|-----------------------------|------------------------|-----------------------|
| 5/16-18       | 5/8         | PCF 51618 58  | 7/16                          | 7/64                        | FER05-FHD              | 12.8 lbs.             |
| 5/16-18       | 3/4         | PCF 51618 34  | 7/16                          | 7/64                        | FER05-FHD              | 12.8 lbs.             |
| 5/16-18       | 7/8         | PCF 51618 78  | 7/16                          | 7/64                        | FER05-FHD              | 17 lbs.               |
| 5/16-18       | 1           | PCF 51618 1   | 7/16                          | 7/64                        | FER05-FHD              | 17 lbs.               |
| 5/16-18       | 1-1/8       | PCF 51618 118 | 7/16                          | 7/64                        | FER05-FHD              | 21.3 lbs.             |
| 5/16-18       | 1-1/4       | PCF 51618 114 | 7/16                          | 7/64                        | FER05-FHD              | 21.3 lbs.             |
| 5/16-18       | 1-3/8       | PCF 51618 138 | 7/16                          | 7/64                        | FER05-FHD              | 25.5 lbs.             |
| 5/16-18       | 1-1/2       | PCF 51618 112 | 7/16                          | 7/64                        | FER05-FHD              | 25.5 lbs.             |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Full Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding. Stud Welding Products PCF Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCF studs are also available in weldable stainless steel. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

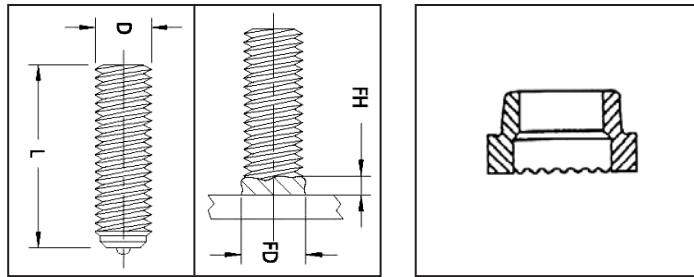
| HOW TO ORDER  |
|---|
| Specify diameter, thread size before weld (BW) length, type of material.  |
| <b>EXAMPLE</b>  |
| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  |
| When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1 |

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# PCF FULL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part# | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000 Piece<br>Weight |
|---------------|-------------|--------------|-------------------------------|-----------------------------|------------------------|-----------------------|
| 3/8-16        | 3/4         | PCF 3816 34  | 1/2                           | 1/8                         | FER06-FHD              | 18.8 lbs.             |
| 3/8-16        | 7/8         | PCF 3816 78  | 1/2                           | 1/8                         | FER06-FHD              | 25 lbs.               |
| 3/8-16        | 1           | PCF 3816 1   | 1/2                           | 1/8                         | FER06-FHD              | 25 lbs.               |
| 3/8-16        | 1-1/8       | PCF 3816 118 | 1/2                           | 1/8                         | FER06-FHD              | 31.3 lbs.             |
| 3/8-16        | 1-1/4       | PCF 3816 114 | 1/2                           | 1/8                         | FER06-FHD              | 31.3 lbs.             |
| 3/8-16        | 1-3/8       | PCF 3816 138 | 1/2                           | 1/8                         | FER06-FHD              | 37.5 lbs.             |
| 3/8-16        | 1-1/2       | PCF 3816 112 | 1/2                           | 1/8                         | FER06-FHD              | 37.5 lbs.             |
| 3/8-16        | 1-3/4       | PCF 3816 134 | 1/2                           | 1/8                         | FER06-FHD              | 43.8 lbs.             |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Full Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding. Stud Welding Products PCF Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCF studs are also available in weldable stainless steel. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

## HOW TO ORDER

Specify diameter, thread size before weld (BW) length, type of material.

### EXAMPLE

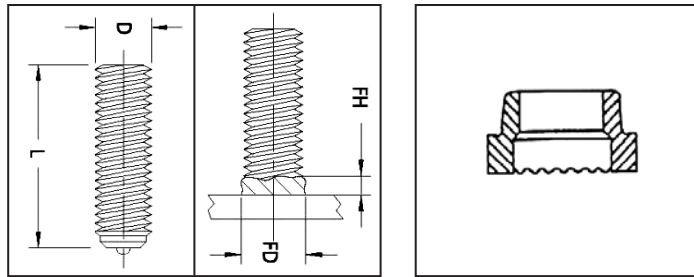
1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  
When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1

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# PCF FULL THREAD STUDS



| <b>D</b><br>Diameter | <b>L</b><br>Length | <b>SWP</b><br><b>Part#</b> | <b>FD</b><br>Weld Fillet<br>Diameter | <b>FH</b><br>Weld Fillet<br>Height | <b>Ferrule</b><br>Part Number | 1,000 Piece<br>Weight |
|----------------------|--------------------|----------------------------|--------------------------------------|------------------------------------|-------------------------------|-----------------------|
| 1/2-13               | 7/8                | PCF 1213 78                | 11/16                                | 5/32                               | FER08-FHD                     | 46 lbs.               |
| 1/2-13               | 1                  | PCF 1213 1                 | 11/16                                | 5/32                               | FER08-FHD                     | 46 lbs.               |
| 1/2-13               | 1-1/8              | PCF 1213 118               | 11/16                                | 5/32                               | FER08-FHD                     | 57.5 lbs.             |
| 1/2-13               | 1-1/4              | PCF 1213 114               | 11/16                                | 5/32                               | FER08-FHD                     | 57.5 lbs.             |
| 1/2-13               | 1-3/8              | PCF 1213 138               | 11/16                                | 5/32                               | FER08-FHD                     | 69 lbs.               |
| 1/2-13               | 1-1/2              | PCF 1213 112               | 11/16                                | 5/32                               | FER08-FHD                     | 69 lbs.               |
| 1/2-13               | 1-5/8              | PCF 1213 158               | 11/16                                | 5/32                               | FER08-FHD                     | 80.5 lbs.             |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Full Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding. Stud Welding Products PCF Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCF studs are also available in weldable stainless steel. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

| <b>Low Carbon Mechanical Property Requirements</b> |                 |
|--|-----------------|
| Tensile Strength                                   | 61,000 psi min. |
| Yield Strength                                     | 49,000 psi min. |
| Elongation (% in 2 in.)                            | 17% min.        |
| Elongation (% in 5x dia.)                          | 14% min.        |
| Reduction of Area                                  | 50% min.        |

| <b>HOW TO ORDER</b>   |
|---|
| Specify diameter, thread size before weld (BW) length, type of material.  |
| <b>EXAMPLE</b>  |
| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  |
| When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1 |

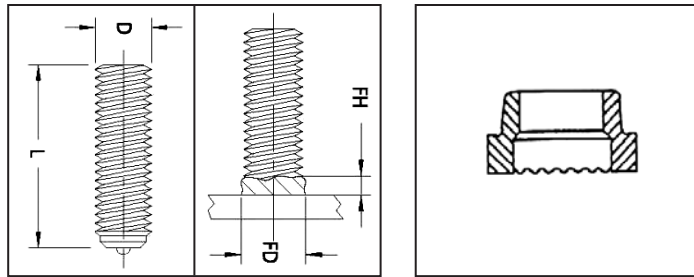
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# PCF FULL THREAD STUDS



| D<br>Diameter | L<br>Length | SWP<br>Part# | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number | 1,000 Piece<br>Weight |
|---------------|-------------|--------------|-------------------------------|-----------------------------|------------------------|-----------------------|
| 5/8           | 1           | PCF 5811 1   | 7/8                           | 3/16                        | FER10-FHD              | 70 lbs.               |
| 5/8           | 1-1/4       | PCF 5811 114 | 7/8                           | 3/16                        | FER10-FHD              | 87.5 lbs.             |
| 5/8           | 1-1/2       | PCF 5811 112 | 7/8                           | 3/16                        | FER10-FHD              | 105 lbs.              |
| 5/8           | 2           | PCF 5811 2   | 7/8                           | 3/16                        | FER10-FHD              | 140 lbs.              |
| 5/8           | 2-1/4       | PCF 5811 214 | 7/8                           | 3/16                        | FER10-FHD              | 157.5 lbs.            |
| 5/8           | 2-1/2       | PCF 5811 212 | 7/8                           | 3/16                        | FER10-FHD              | 175 lbs.              |
| 5/8           | 3           | PCF 5811 3   | 7/8                           | 3/16                        | FER10-FHD              | 210 lbs.              |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Full Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding. Stud Welding Products PCF Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCF studs are also available in weldable stainless steel. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

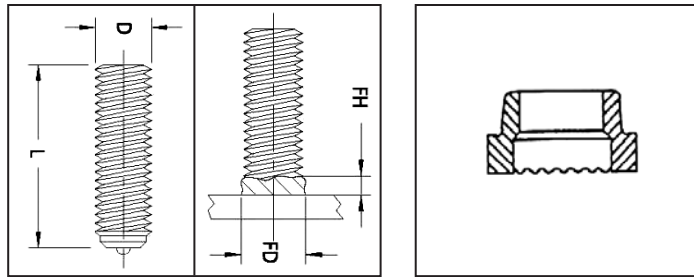
| HOW TO ORDER  |
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| Specify diameter, thread size before weld (BW) length, type of material.  |
| <b>EXAMPLE</b>  |
| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  |
| When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1 |

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# PCF FULL THREAD STUDS



| <b>D</b><br>Diameter | <b>L</b><br>Length | <b>SWP</b><br><b>Part#</b> | <b>FD</b><br>Weld Fillet<br>Diameter | <b>FH</b><br>Weld Fillet<br>Height | <b>Ferrule</b><br>Part Number | 1,000 Piece<br>Weight |
|----------------------|--------------------|----------------------------|--------------------------------------|------------------------------------|-------------------------------|-----------------------|
| 3/4                  | 1                  | PCF 3410 1                 | 1-1/16                               | 1/4                                | FER12-F                       | 133.8 lbs.            |
| 3/4                  | 1-1/4              | PCF 3410 114               | 1-1/16                               | 1/4                                | FER12-F                       | 133.8 lbs.            |
| 3/4                  | 1-1/2              | PCF 3410 112               | 1-1/16                               | 1/4                                | FER12-F                       | 160.5 lbs.            |
| 3/4                  | 1-3/4              | PCF 3410 134               | 1-1/16                               | 1/4                                | FER12-F                       | 187.3 lbs.            |
| 3/4                  | 2                  | PCF 3410 2                 | 1-1/16                               | 1/4                                | FER12-F                       | 214 lbs.              |
| 3/4                  | 2-1/4              | PCF 3410 214               | 1-1/16                               | 1/4                                | FER12-F                       | 240.8 lbs.            |
| 3/4                  | 2-1/2              | PCF 3410 212               | 1-1/16                               | 1/4                                | FER12-F                       | 267.5 lbs.            |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Full Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding. Stud Welding Products PCF Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCF studs are also available in weldable stainless steel. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

| <b>Low Carbon Mechanical Property Requirements</b> |                 |
|--|-----------------|
| Tensile Strength                                   | 61,000 psi min. |
| Yield Strength                                     | 49,000 psi min. |
| Elongation (% in 2 in.)                            | 17% min.        |
| Elongation (% in 5x dia.)                          | 14% min.        |
| Reduction of Area                                  | 50% min.        |

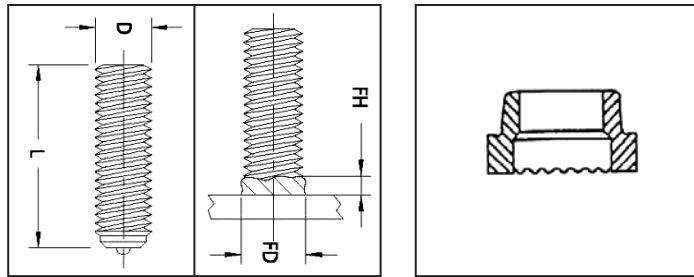
| <b>HOW TO ORDER</b>   |
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| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  |
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# PCF FULL THREAD STUDS



| <b>D</b><br>Diameter | <b>L</b><br>Length | <b>SWP</b><br><b>Part#</b> | <b>FD</b><br>Weld Fillet<br>Diameter | <b>FH</b><br>Weld Fillet<br>Height | <b>Ferrule</b><br>Part Number | 1,000 Piece<br>Weight |
|----------------------|--------------------|----------------------------|--------------------------------------|------------------------------------|-------------------------------|-----------------------|
| 7/8                  | 2                  | PCF 789 2                  | 1-1/8                                | 5/16                               | FER14-F                       | 325 lbs.              |
| 7/8                  | 2-1/2              | PCF 789 212                | 1-1/8                                | 5/16                               | FER14-F                       | 406.3 lbs.            |
| 7/8                  | 3                  | PCF 789 3                  | 1-1/8                                | 5/16                               | FER14-F                       | 487.5 lbs.            |
| 7/8                  | 3-1/2              | PCF 789 312                | 1-1/8                                | 5/16                               | FER14-F                       | 568.8 lbs.            |
| 7/8                  | 4                  | PCF 789 4                  | 1-1/8                                | 5/16                               | FER14-F                       | 650 lbs.              |
| 7/8                  | 4-1/2              | PCF 789 412                | 1-1/8                                | 5/16                               | FER14-F                       | 731.3 lbs.            |
| 7/8                  | 5                  | PCF 789 5                  | 1-1/8                                | 5/16                               | FER14-F                       | 812.5 lbs.            |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

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**Material:** Low carbon steel, ASTM A29, 1010 1020. PCF studs are also available in weldable stainless steel. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

| <b>Low Carbon Mechanical Property Requirements</b> |                 |
|--|-----------------|
| Tensile Strength                                   | 61,000 psi min. |
| Yield Strength                                     | 49,000 psi min. |
| Elongation (% in 2 in.)                            | 17% min.        |
| Elongation (% in 5x dia.)                          | 14% min.        |
| Reduction of Area                                  | 50% min.        |

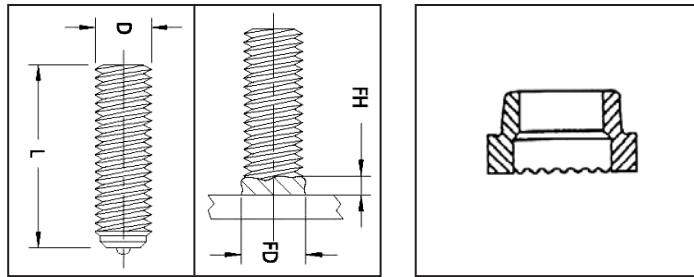
| <b>HOW TO ORDER</b>   |
|---|
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| <b>EXAMPLE</b>  |
| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  |
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# PCF FULL THREAD STUDS



| <b>D</b><br>Diameter | <b>L</b><br>Length | <b>SWP</b><br>Part# | <b>FD</b><br>Weld Fillet<br>Diameter | <b>FH</b><br>Weld Fillet<br>Height | <b>Ferrule</b><br>Part Number | 1,000<br>Piece<br>Weight |
|----------------------|--------------------|---------------------|--------------------------------------|------------------------------------|-------------------------------|--------------------------|
| 1                    | 2                  | PCF 18 2            | 1-3/8                                | 3/8                                | FER16-F                       |                          |
| 1                    | 2-1/2              | PCF 18 212          | 1-3/8                                | 3/8                                | FER16-F                       |                          |
| 1                    | 3                  | PCF 18 3            | 1-3/8                                | 3/8                                | FER16-F                       |                          |
| 1                    | 3-1/2              | PCF 18 312          | 1-3/8                                | 3/8                                | FER16-F                       |                          |
| 1                    | 4                  | PCF 18 4            | 1-3/8                                | 3/8                                | FER16-F                       |                          |
| 1                    | 4-1/2              | PCF 18 412          | 1-3/8                                | 3/8                                | FER16-F                       |                          |
| 1                    | 5                  | PCF 18 5            | 1-3/8                                | 3/8                                | FER16-F                       |                          |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**Full Thread Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding. Stud Welding Products PCF Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. PCF studs are also available in weldable stainless steel. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

| <b>Low Carbon Mechanical Property Requirements</b> |                 |
|--|-----------------|
| Tensile Strength                                   | 61,000 psi min. |
| Yield Strength                                     | 49,000 psi min. |
| Elongation (% in 2 in.)                            | 17% min.        |
| Elongation (% in 5x dia.)                          | 14% min.        |
| Reduction of Area                                  | 50% min.        |

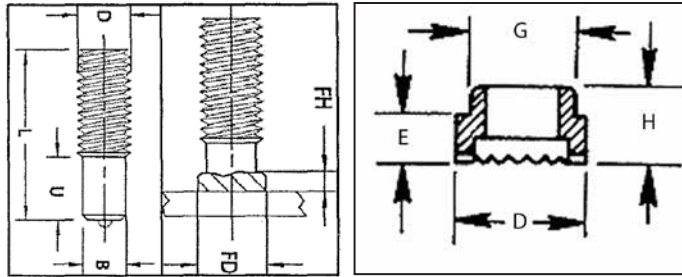
| <b>HOW TO ORDER</b>   |
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| Specify diameter, thread size before weld (BW) length, type of material.  |
| <b>EXAMPLE</b>  |
| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  |
| When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1 |

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# RB REDUCED WELD BASE THREADED STUD



| <b>D</b><br>Diameter | <b>L</b><br>Length | <b>SWP</b><br><b>Part#</b> | <b>B</b><br>Base<br>Diameter | <b>U</b><br>Minimum<br>Base Length | <b>FD</b><br>Weld Fillet<br>Diameter | <b>FH</b><br>Weld Fillet<br>Height | <b>Ferrule</b><br>Part Number |
|----------------------|--------------------|----------------------------|------------------------------|------------------------------------|--------------------------------------|------------------------------------|-------------------------------|
| 3/8-16               | 3/4                | RB 3816 34                 | .310                         | 3/8                                | 7/16                                 | 7/64                               | FER06 R                       |
| 7/16-14              | 7/8                | RB 71614 78                | .373                         | 3/8                                | 1/2                                  | 1/8                                | FER06 R                       |
| 1/2-13               | 7/8                | RB 1213 78                 | .435                         | 7/16                               | 19/32                                | 9/64                               | FER06 R                       |
| 3/4-10               | 1-3/16             | RB 3410 1316               | .625                         | 5/8                                | 7/8                                  | 3/16                               | FER06 R                       |
| *7/8-9               | 1-1/2              | RB 789 112                 | .750                         | 1                                  | 1-1/16                               | 1/4                                | FER06 R                       |
| *1-8                 | 2                  | RB 18 2                    | .875                         | 1                                  | 1-1/8                                | 5/16                               | FER06 R                       |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**RB Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding. Stud Welding Products RB Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. RB studs are also available in weldable stainless steel. Type 302 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

| <b>Low Carbon Mechanical Property Requirements</b> |                 |
|--|-----------------|
| Tensile Strength                                   | 61,000 psi min. |
| Yield Strength                                     | 49,000 psi min. |
| Elongation (% in 2 in.)                            | 17% min.        |
| Elongation (% in 5x dia.)                          | 14% min.        |
| Reduction of Area                                  | 50% min.        |

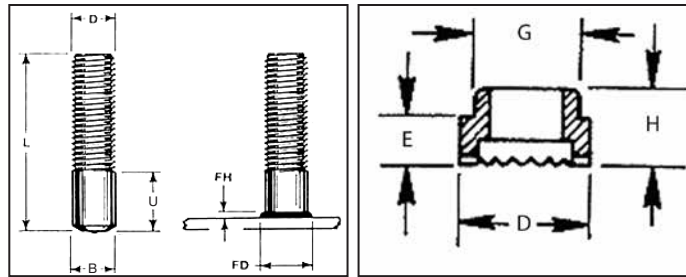
| <b>HOW TO ORDER</b>   |
|---|
| Specify diameter, thread size before weld (BW) length, type of material.  |
| <b>EXAMPLE</b>  |
| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  |
| When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1 |

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# FB FULL BASE THREADED STUD



| D<br>Diameter | L<br>Length | SWP<br>Part#     | B<br>Base<br>Diameter | U<br>Minimum<br>Base Length | FD<br>Weld Fillet<br>Diameter | FH<br>Weld Fillet<br>Height | Ferrule<br>Part Number |
|---------------|-------------|------------------|-----------------------|-----------------------------|-------------------------------|-----------------------------|------------------------|
| 1/4-20        | 25/32       | FB 1420 2532     | 1/4                   | .187                        | 23/64                         | 7/64                        | FER04-FHD              |
| 5/16-18       | 25/32       | FB 51618<br>2532 | 5/16                  | .250                        | 7/16                          | 7/64                        | FER05-FHD              |
| 3/8-16        | 25/32       | FB 3816 2532     | 3/8                   | .265                        | 1/2                           | 1/8                         | FER06-FHD              |
| 7/16-14       | 25/32       | FB 71614<br>2532 | 7/16                  | .281                        | 19/32                         | 9/64                        | FER07-FHD              |
| 1/2-13        | 13/16       | FB 1213 1316     | 1/2                   | .296                        | 11/16                         | 5/32                        | FER08-FHD              |
| 5/8-11        | 31/32       | FB 5811 3132     | 5/8                   | .359                        | 7/8                           | 3/16                        | FER10-FHD              |
| 3/4-10        | 1-15/64     | FB 3410<br>11564 | 3/4                   | .500                        | 1-1/16                        | 1/4                         | FER12-F                |
| 7/8-9         | 1-1/2       | FB 789 112       | 7/8                   | .625                        | 1-1/8                         | 5/16                        | FER14-F                |
| 1-8           | 1-41/64     | FB 18 14164      | 1                     | .750                        | 1-3/8                         | 3/8                         | FER16-FHD              |

\*also available in aluminum

**Full Base Studs** are used where additional shear strength is required at the weld.

**Length:** Length is listed before weld. Studs diameters 1/2" and below will be approx. 1/8" shorter after welding. 5/8" will be approx. 3/16" shorter after welding. Stud Welding Products PCF Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29 1010-1020. Stainless steel 18-8.

| Low Carbon Mechanical Property Requirements |                 |
|---|-----------------|
| Tensile Strength                            | 61,000 psi min. |
| Yield Strength                              | 49,000 psi min. |
| Elongation (% in 2 in.)                     | 17% min.        |
| Elongation (% in 5x dia.)                   | 14% min.        |
| Reduction of Area                           | 50% min.        |

| HOW TO ORDER  |
|---|
| Specify diameter, thread size before weld (BW) length, type of material.  |
| <b>EXAMPLE</b>  |
| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel  |
| When ordering Stainless Steel, SS will be added to the part number. Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1 |

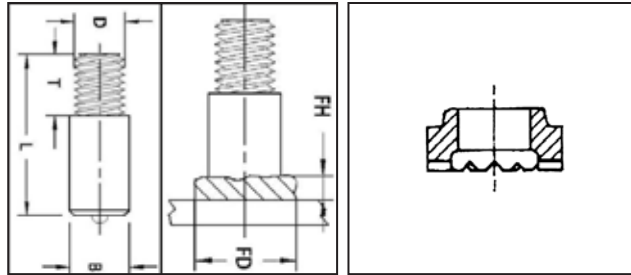
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# SS SHOULDER STUDS



| D<br>Thread<br>Diameter | T<br>Thread<br>Length | SWP<br>Part# | B<br>Base<br>Diameter | T<br>Stud<br>Length | Ferrule<br>Part Number |
|-------------------------|-----------------------|--------------|-----------------------|---------------------|------------------------|
| 1/4-20                  | 3/8                   | SS 1420 38   | 3/8                   | 3/4                 | FER06 FHD              |
| 5/16-18                 | 7/16                  | SS 51618 716 | 7/16                  | 7/8                 | FER07 FHD              |
| 3/8-16                  | 1/2                   | SS 3816 12   | 1/2                   | 1                   | FER08 FHD              |
| 1/2-13                  | 11/16                 | SS 1213 1116 | 5/8                   | 1-1/4               | FER10 FHD              |
| 5/8-11                  | 11/16                 | SS 5811 1116 | 3/4                   | 1-9/16              | FER12 F                |
| 3/4-10                  | 13/16                 | SS 3410 1316 | 7/8                   | 1-7/8               | FER14 F                |
| 7/8-                    | 13/16                 | SS 78 1316   | 1/4                   | 1-7/8               | FER16 F                |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

| <b>HOW TO ORDER</b>  |  |
|--|--|
| Specify diameter, thread size before weld (BW) length, type of material. |  |
| <b>EXAMPLE</b>   |  |
| 1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel                     |  |
| When ordering Stainless Steel, SS will be added to the part number.      |  |
| Example: Partial Thread Stainless Steel 1/4-20x1"= PCPSS 1420 1          |  |
| Diameters 9/16" and below will be 1/8" shorter AFTER weld                |  |
| Diameters " 5/8 - 7/8" will be 3/16" shorter AFTER weld                  |  |
| Diameters 1 - 1 1/4" will be 1/4" shorter AFTER weld                     |  |

**Shoulder Studs** are used where additional shear strength is required at the weld.

**Material:** Low carbon steel, ASTM A 108 1010-1020. Stainless steel 18-8.

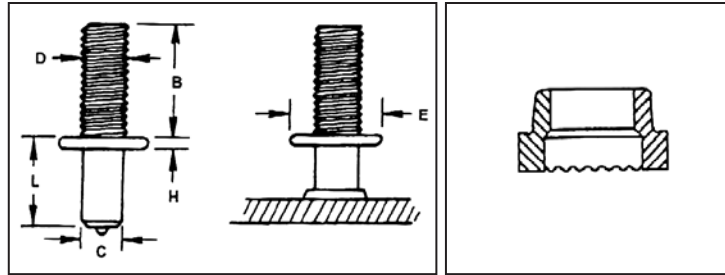
| <b>Low Carbon Mechanical Property Requirements</b> |                 | <b>Stainless Steel</b>   |
|--|-----------------|--|
| Tensile Strength                                   | 61,000 psi min. | Material: Stainless Steel<br>AISI grade - 302/304/316.<br>Other grades available upon request.<br><br>Mechanical Properties: Values for various grades available upon request. |
| Yield Strength                                     | 49,000 psi min. |  |
| Elongation (% in 2 in.)                            | 17% min.        |  |
| Elongation (% in 5x dia.)                          | 14% min.        |  |
| Reduction of Area                                  | 50% min.        |  |

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# CS COLLAR STUDS



| D       | Std. B | SWP Part# | Min. L. | C    | E   | H    | Ferrule Part Number |
|---------|--------|-----------|---------|------|-----|------|---------------------|
| 1/4-20  | 5/8    | call      | 3/8     | .214 | 1/2 | 3/32 | FER04 C             |
| 5/16-18 | 5/8    | call      | 3/8     | .273 | 5/8 | 3/32 | FER05 C             |
| 3/8-16  | 5/8    | call      | 3/8     | .331 | 5/8 | 3/32 | FER06 C             |
| 1/2-13  | 3/4    | call      | 1/2     | .446 | 3/4 | 3/32 | FER08 C             |

\*Also available in metric. Other sizes available. See ferrule spec sheet for ferrule specs.

| HOW TO ORDER   |  |
|--|--|
| Specify diameter, thread size before weld (BW) length, type of material. |  |
| <b>EXAMPLE</b>   |  |
| CK .330 x 4 1/8 w/ 3/8-16 x 5/8  |  |
| When ordering Stainless Steel, SS will be added to the part number.      |  |
| Diameters 9/16" and below will be 1/8" shorter AFTER weld                |  |
| Diameters " 5/8 - 7/8" will be 3/16" shorter AFTER weld                  |  |
| Diameters 1- 1 1/4" will be 1/4" shorter AFTER weld                      |  |

**Collar Studs** are used to provide a spacer between the parent metal and the part secured on threaded extension.

**Material:** Low carbon steel, ASTM A 108 1010-1020. Stainless steel 18-8.

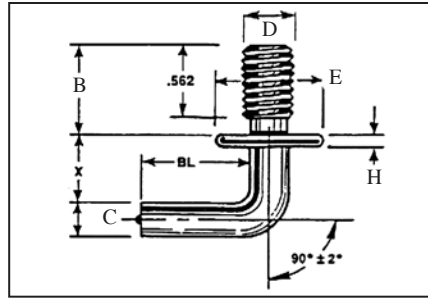
| Low Carbon Mechanical Property Requirements |                 | Stainless Steel  |
|---|-----------------|--|
| Tensile Strength                            | 61,000 psi min. | Material: Stainless Steel<br>AISI grade - 302/304/316.<br>Other grades available upon request. |
| Yield Strength                              | 49,000 psi min. |  |
| Elongation (% in 2 in.)                     | 17% min.        | Mechanical Properties: Values for various grades available upon request.                       |
| Elongation (% in 5x dia.)                   | 14% min.        |  |
| Reduction of Area                           | 50% min.        |  |

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# BCS BENT COLLAR STUDS



| D      | B     | SWP Part#   | Min. BL | C    | E   | H    | X   |
|--------|-------|-------------|---------|------|-----|------|-----|
| 3/8-16 | 1.375 | BC 3816 138 | .625    | .331 | 5/8 | .109 | 5/8 |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

### HOW TO ORDER

Specify diameter, thread size before weld (BW) length, type of material.

#### EXAMPLE

C x BLW D x B

When ordering Stainless Steel, SS will be added to the part number.

Diameters 9/16" and below will be 1/8" shorter AFTER weld  
 Diameters " 5/8 - 7/8" will be 3/16" shorter AFTER weld  
 Diameters 1 - 1 1/4" will be 1/4" shorter AFTER weld

**Threads:** Standard thread is UNC-2A (Rolled when possible), other threads are available upon request. Other diameters available upon request.

**Material:** Low carbon steel, C - 0.23% max., P - 0.04% max., Mn - 0.60% max., S - 0.05% max.

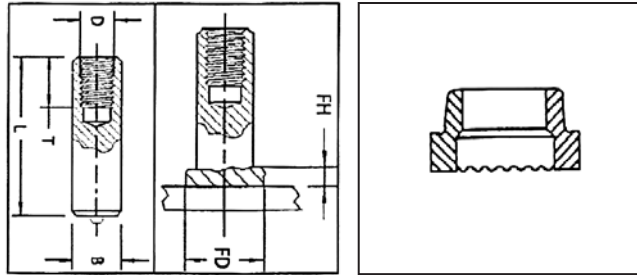
| Low Carbon Mechanical Property Requirements |                 | Stainless Steel  |
|---|-----------------|--|
| Tensile Strength                            | 61,000 psi min. | Material: Stainless Steel<br>AISI grade - 302/304/316.<br>Other grades available upon request. |
| Yield Strength                              | 49,000 psi min. |  |
| Elongation (% in 2 in.)                     | 17% min.        | Mechanical Properties: Values for various grades available upon request.                       |
| Elongation (% in 5x dia.)                   | 14% min.        |  |
| Reduction of Area                           | 50% min.        |  |

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# TP INTERNALLY TAPPED STUD FULL WELD BASE



| <b>B</b><br>Stud<br>Diameter | <b>D</b><br>Tap Diameter | <b>L</b><br>Length (BW) | <b>T</b><br>Tap<br>Depth | <b>SWP<br/>Part#</b> | <b>Ferrule<br/>Part Number</b> |
|------------------------------|--------------------------|-------------------------|--------------------------|----------------------|--------------------------------|
| 1/4                          | #8 32                    | 5/8                     | 1/4                      | call                 | FER04-FHD                      |
| 5/16                         | #10 24                   | 5/8                     | 5/16                     | call                 | FER05-FHD                      |
| 3/8                          | 1/4 20                   | 13/16                   | 3/8                      | call                 | FER06-FHD                      |
| 7/16                         | 5/16 18                  | 1                       | 1/2                      | call                 | FER07-FHD                      |
| 1/2                          | 3/8 16                   | 1-1/8                   | 9/16                     | call                 | FER08-FHD                      |
| 5/8                          | 7/16 14                  | 1-3/16                  | 5/8                      | call                 | FER10-FHD                      |
| 3/4                          | 1/2 13                   | 1-7/16                  | 3/4                      | call                 | FER12-FHD                      |
| 7/8                          | 5/8 11                   | 1-5/8                   | 15/16                    | call                 | FER14-FHD                      |
| 1                            | 3/4 10                   | 2-1/4                   | 1-1/8                    | call                 | FER16-FHD                      |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

| <b>HOW TO ORDER</b>   |  |
|---|--|
| Specify base diameter, finished length before weld (BW) length, tap size, tap depth and type of material. |  |
| <b>EXAMPLE</b>  |  |
| 5/8 x 1-1/4" (BW) Tapped Stud (TS) with a 3/8-16 x 7/16 tap, mild steel                                   |  |
| When ordering Stainless Steel, SS will be added to the part number.                                       |  |
| Diameters 9/16" and below will be 1/8" shorter AFTER weld   |  |
| Diameters " 5/8 - 7/8" will be 3/16" shorter AFTER weld   |  |
| Diameters 1 - 1 1/4" will be 1/4" shorter AFTER weld  |  |

**Tapped Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs Welding Products TP Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. TP studs are also available in weldable stainless steel.

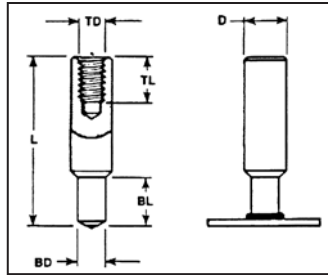
| <b>Low Carbon Mechanical Property Requirements</b> |                 | <b>Stainless Steel</b>   |
|--|-----------------|--|
| Tensile Strength                                   | 61,000 psi min. | Material: Stainless Steel<br>AISI grade - 302/304/316.<br>Other grades available upon request. |
| Yield Strength                                     | 49,000 psi min. |  |
| Elongation (% in 2 in.)                            | 17% min.        |  |
| Elongation (% in 5x dia.)                          | 14% min.        | Mechanical Properties: Values for various grades available upon request.                       |
| Reduction of Area                                  | 50% min.        |  |

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# TP INTERNALLY TAPPED STUD REDUCED WELD BASE



| D   | Min L | TD      | TL *  | SWP Part# | BD   | BL   | Ferrule Part Number |
|-----|-------|---------|-------|-----------|------|------|---------------------|
| 3/8 | 1-1/2 | 1/4-20  | 3/8   | call      | .250 | 7/16 | FS250               |
| 1/2 | 1-1/2 | 3/8-16  | 9/16  | call      | .375 | 7/16 | FS375               |
| 5/8 | 1-1/2 | 7/16-14 | 21/32 | call      | .500 | 1/2  | FS500               |
| 3/4 | 1-1/2 | 7/16-14 | 21/32 | call      | .500 | 1/2  | FS500               |
| 7/8 | 2     | 5/8-11  | 15/16 | call      | .625 | 5/8  | FS625               |
| 1   | 2-1/2 | 3/4-10  | 1     | call      | .75  | 5/8  | FS750               |

\*Maximum standard tap depth equals 1-1/2 times tap diameter.

Taps: Standard tap is UNC-2B, other taps are available.

| HOW TO ORDER  |
|---|
| Specify base diameter, finished length before weld (BW) length, tap size, tap depth and type of material.   |
| <b>EXAMPLE</b><br>5/8 x 1-1/4" (BW) Tapped Stud (TS) with a 3/8-16 x 7/16 tap, mild steel   |
| When ordering Stainless Steel, SS will be added to the part number.   |
| Diameters 9/16" and below will be 1/8" shorter AFTER weld<br>Diameters " 5/8 - 7/8" will be 3/16" shorter AFTER weld<br>Diameters 1- 1 1/4" will be 1/4" shorter AFTER weld |

**Tapped Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Studs Welding Products TP Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. TP studs are also available in weldable stainless steel.

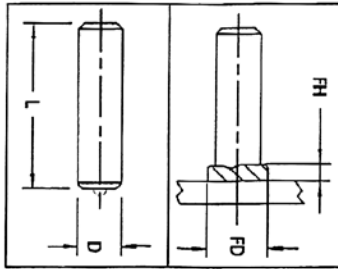
| Low Carbon Mechanical Property Requirements |                 | Stainless Steel  |
|---|-----------------|--|
| Tensile Strength                            | 61,000 psi min. | Material: Stainless Steel<br>AISI grade - 302/304/305 std.<br>Other grades available upon request. |
| Yield Strength                              | 49,000 psi min. |  |
| Elongation (% in 2 in.)                     | 17% min.        |  |
| Elongation (% in 5x dia.)                   | 14% min.        | Mechanical Properties: Values for various grades available upon request.                           |
| Reduction of Area                           | 50% min.        |  |

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# NT NO THREAD STUD FULL WELD BASE



| <b>D</b><br>Stud Diameter | <b>L</b><br>Length (BW) | <b>SWP</b><br><b>Part#</b> | <b>FD</b><br>Weld Fillet<br>Diameter | <b>FH</b><br>Weld Fillet<br>Height | <b>Ferrule</b><br>Part Number |
|---------------------------|-------------------------|----------------------------|--------------------------------------|------------------------------------|-------------------------------|
| 1/4                       | 3/4                     | NT 14 78                   | 23/64                                | 7/64                               | FER04-FHD                     |
| 5/16                      | 3/4                     | NT 516 78                  | 7/16                                 | 7/64                               | FER05-FHD                     |
| 3/8                       | 3/4                     | NT 38 34                   | 1/2                                  | 1/8                                | FER06-FHD                     |
| 7/16                      | 3/4                     | NT 716 34                  | 19/32                                | 9/64                               | FER07-FHD                     |
| 1/2                       | 3/4                     | NT 12 34                   | 11/16                                | 5/32                               | FER08-FHD                     |
| 5/8                       | 1                       | NT 58 1                    | 7/8                                  | 3/16                               | FER10-FHD                     |
| 3/4                       | 1                       | NT 34 1                    | 1-1/16                               | 1/4                                | FER12-F                       |
| 7/8                       | 1-1/2                   | NT 78 112                  | 1-1/8                                | 5/16                               | FER14-F                       |
| 1                         | 1-1/2                   | NT 1 112                   | 1-3/8                                | 3/8                                | FER16-F                       |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

**NT Studs** are used in all types of applications. They can be welded to a flat surface, or to the inside or outside of an angle.

**Length:** Length is listed before weld. Stud Welding Products NT Studs can be made in any length above the standard minimum.

**Material:** Low carbon steel, ASTM A29, 1010 1020. NT studs are also available in weldable stainless steel.

| <b>Low Carbon Mechanical Property Requirements</b> |                 |
|--|-----------------|
| Tensile Strength                                   | 55,000 psi min. |
| Yield Strength                                     | 50,000 psi min. |
| Elongation (% in 2 in.)                            | 17% min.        |
| Elongation (% in 5x dia.)                          | 14% min.        |
| Reduction of Area                                  | 50% min.        |

| <b>HOW TO ORDER</b>  |
|--|
| Specify diameter, thread size before weld (BW) length, type of material.   |
| <b>EXAMPLE</b><br>1/2 x 1 No Thread Pin  |
| When ordering Stainless Steel, SS will be added to the part number.  |
| Diameters 9/16" and below will be 1/8" shorter AFTER weld<br>Diameters " 5/8 - 7/8" will be 3/16" shorter AFTER weld<br>Diameters 1 - 1 1/4" will be 1/4" shorter AFTER weld |

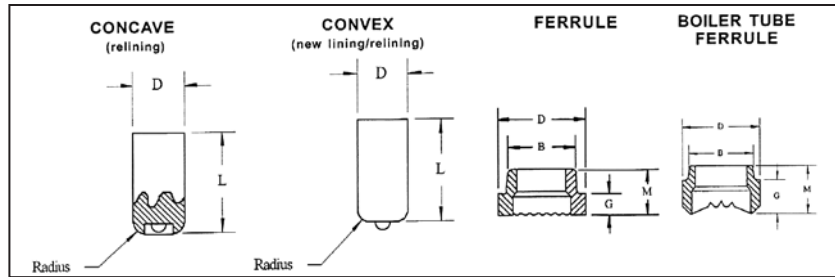
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# BT BOILER TUBE PINS



| D   | Length<br>before weld | SWP<br>Part# | Ferrule<br>Part Number |
|-----|-----------------------|--------------|------------------------|
| 3/8 | 3/4                   | NT 38 34     | FER06-F                |
| 1/2 | 3/4                   | NT 12 34     | FER08-F                |

Pipe diameter equals radius x 2.

**Boiler Tube Heat Transfer Pins** are designed for power, or waste boiler/incinerator lining and re-lining. Specify auto feed quality required.

**Material:** Low carbon steel, ASTM 108. Stainless steel 430, 302, 304, 310, 316 and 320.

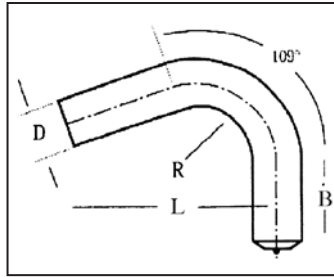
| Low Carbon Mechanical Property Requirements |                 | Stainless Steel  |
|---|-----------------|--|
| Tensile Strength                            | 61,000 psi min. | Material: Stainless Steel<br>AISI grade - 302/304/305 std.<br>Other grades available upon request.<br><br>Mechanical Properties: Values for various grades available upon request. |
| Yield Strength                              | 49,000 psi min. |  |
| Elongation (% in 2 in.)                     | 17% min.        |  |
| Elongation (% in 5x dia.)                   | 14% min.        |  |
| Reduction of Area                           | 50% min.        |  |

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# RH ROPE HOOK STUDS



| D    | B    | L     | SWP Part#   | Ferrule Part Number |
|------|------|-------|-------------|---------------------|
| 7/16 | .687 | 1.875 | RH 716 90 B | FER07-FHD           |

**Rope hook studs** are designed to be welded to trucks, trailers and other vehicles to provide a means of securing tarpaulins with ropes. Studs can be rapidly applied, compared to manual welding of J-bent rods, the Rope Hook studs are ideal in situations where large quantities of studs must be applied.

Rope Hook studs can be welded to the perimeter of multistory buildings to facilitate the securing of ropes during building construction. Rope Hook studs meet OSHA regulations for such applications.

**Material:** Available in low carbon mild steel and stainless steel 302 and 306.

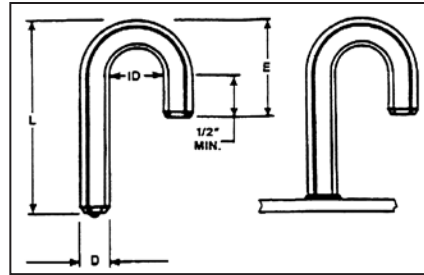
| Low Carbon Mechanical Property Requirements |                 | Stainless Steel  |
|---|-----------------|--|
| Tensile Strength                            | 61,000 psi min. | Material: Stainless Steel<br>AISI grade - 302/304/305 std.<br>Other grades available upon request.<br><br>Mechanical Properties: Values for various grades available upon request. |
| Yield Strength                              | 49,000 psi min. |  |
| Elongation (% in 2 in.)                     | 17% min.        |  |
| Elongation (% in 5x dia.)                   | 14% min.        |  |
| Reduction of Area                           | 50% min.        |  |

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# JB “J” BOLT STUD



| D    | MIN L | SWP Part#  | MIN ID | MIN E | Ferrule Part Number |
|------|-------|------------|--------|-------|---------------------|
| 1/4  | 1-1/4 | JB 14 114  | 5/8    | 1-1/8 | FER04-FHD           |
| 5/16 | 1-1/2 | JB 516 112 | 3/4    | 1-1/4 | FER05-FHD           |
| 3/8  | 1-5/8 | JB 38 158  | 7/8    | 1-3/8 | FER06-FHD           |
| 7/16 | 1-3/4 | JB 716 134 | 1      | 1-1/2 | FER07-FHD           |
| 1/2  | 2     | JB 12 2    | 1      | 1-1/2 | FER08-FHD           |
| 5/8  | 2-1/2 | JB 58-212  | 1-1/2  | 1-7/8 | FER10-FHD           |

\*Also available in metric. See ferrule spec sheet for ferrule specs.

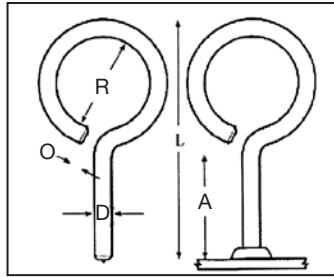
| Low Carbon Mechanical Property Requirements |                 | Stainless Steel  |
|---|-----------------|--|
| Tensile Strength                            | 60,000 psi min. | Material: Stainless Steel<br>AISI grade - 302/304/316 std.<br>Other grades available upon request.<br><br>Mechanical Properties: Values for various grades available upon request. |
| Yield Strength                              | 50,000 psi min. |  |
| Elongation (% in 2 in.)                     | 20% (in 2")     |  |
| Elongation (% in 5x dia.)                   | 20% (in 2")     |  |
|   |                 |  |

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# EB EYEBOLT STUDS



| Stud Diameter<br><b>D</b> | Length<br><b>L</b> | Min<br><b>R</b> | Min<br><b>A</b> | Max<br>Opening<br><b>O</b> | <b>SWP<br/>Part#</b> | <b>Ferrule<br/>Part Number</b> |
|---------------------------|--------------------|-----------------|-----------------|----------------------------|----------------------|--------------------------------|
| .187                      | 1.875              | .750            | .750            | .187                       | call                 | FER03-FHD                      |
| .250                      | 1.750              | .500            | .750            | .250                       | call                 | FER04-FHD                      |
| .312                      | 1.812              | .437            | .750            | .312                       | call                 | FER05-FHD                      |
| .375                      | 2.562              | .875            | .937            | .375                       | call                 | FER06-FHD                      |
| .437                      | 3.000              | 1.000           | 1.125           | .437                       | call                 | FER07-FHD                      |
| .500                      | 3.562              | 1.250           | 1.312           | .500                       | call                 | FER08-FHD                      |

**Eyebolt studs** are welded to a variety of parts or structures to provide a means of attachment to the assembly or a means of lifting parts.

The length of the weld base portion of the stud is needed for the ferrule height and the burn off, or length reduction, during the stud welding process.

**Material:** Available in low carbon mild steel and stainless steel 302 and 304.

| Low Carbon Mechanical Property Requirements |                 | Stainless Steel  |
|---|-----------------|--|
| Tensile Strength                            | 61,000 psi min. | Material: Stainless Steel<br>AISI grade - 302/304/305 std.<br>Other grades available upon request. |
| Yield Strength                              | 49,000 psi min. |  |
| Elongation (% in 2 in.)                     | 17% min.        | Mechanical Properties: Values for various grades<br>available upon request.                        |
| Elongation (% in 5x dia.)                   | 14% min.        |  |
| Reduction of Area                           | 50% min.        |  |

**STUD WELDING PRODUCTS, INC.**

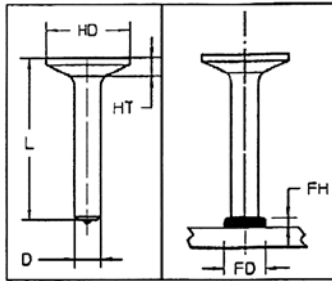
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# PSR PUNCHING SHEAR RESISTOR

## HEADED CONCRETE ANCHOR – FULL WELD BASE

TYPE PSR STUD  
TYPE FHD FERRULE SUPPLIED



| D<br>Diameter | L      | SWP<br>Part# | HD<br>Head<br>Diameter | HT<br>Head<br>Height | FD<br>Fillet<br>Diameter | FH<br>Fillet<br>Height | Ferrule<br>Part Number |
|---------------|--------|--------------|------------------------|----------------------|--------------------------|------------------------|------------------------|
| 3/8           | 3-7/16 | PSR 38 3716  | 1.190                  | .260                 | 1/2                      | 1/8                    | FER06-HD               |
| 1/2           | 2-5/8  | PSR 12 258   | 1.580                  | .330                 | 11/16                    | 5/32                   | FER08-HD               |
| 5/8           | 3-3/4  | PSR 58 334   | 1.980                  | .400                 | 7/8                      | 3/16                   | FER10-HD               |
| 3/4           | 4-3/8  | PSR 34 438   | 2.370                  | .470                 | 1-1/16                   | 1/4                    | FER12-HD               |

1) Stud Welding Products studs are available in any length above the standard minimum.

2) Listed Ferrule above is for the standard flat down hand position.

Diameters 9/16" and below will be 1/8" shorter AFTER weld  
 Diameters " 5/8 - 7/8" will be 3/16" shorter AFTER weld  
 Diameters 1- 1 1/4" will be 1/4" shorter AFTER weld

| Low Carbon Mechanical Property Requirements |                 | Stainless Steel   |
|---|-----------------|---|
| Tensile Strength                            | 65,000 psi min. | Material: Stainless Steel<br>AISI grade - 302/304/316.<br>Other grades available upon request.<br><br>Mechanical Properties: Values for various grades<br>available upon request. |
| Yield Strength                              | 51,000 psi min. |   |
| Elongation (% in 2 in.)                     | 20% min.        |   |
| Elongation (% in 5x dia.)                   | 15% min.        |   |
| Reduction of Area                           | 50% min.        |   |

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