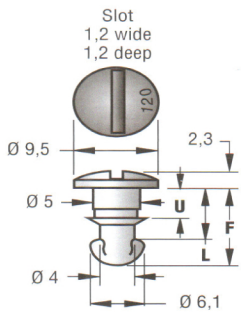




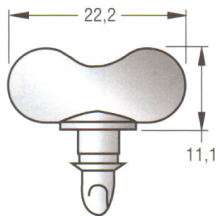
- Available in zinc plated steel and stainless steel
- Ten Head style
- Many stud lengths available to meet your application requirement
- Press-in and flare-in style fully retracting assemblies with No.2 Phillips recess also available
- Fully retracting assemblies permit sliding application and assist in panel to frame alignment
- Refer ordering chart for finish type

\* To purchase stainless steel studs change the last two digits of the part number from - 16 to -20. Ex: 82-11-080-16 become 82-11-080-20

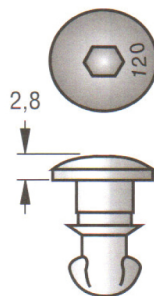
## Oval Slotted



## Wing Head

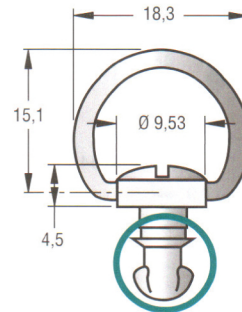


## Hex Socket



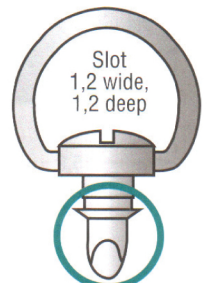
## Bail Style RB

For use when receptacle is vertical



## Bail Style RA

For use when receptacle is horizontal



**southco®**

P/N:82-35-306-10

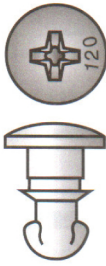
P/No:82-99-205-15

P/No:82-35-315-55

| Outer Panel Thk. |     | Outer Panel Thk. |     | Press-in P/No. |      | Total Mat'l Thk. |      | All Other Receptacle |      | Stud Part Number                |               |              |              |
|------------------|-----|------------------|-----|----------------|------|------------------|------|----------------------|------|---------------------------------|---------------|--------------|--------------|
| Min              | Max | Min              | Max | Min            | Max  | Min              | Max  | Min                  | Max  | Zinc plate,chromate plus sealer |               |              |              |
|                  |     |                  |     |                |      |                  |      |                      |      | Oval Slotted                    | Flush Slotted | Wing Head    | Hex Socket   |
| 0.0              | 0.6 | --               | --  | --             | --   | --               | --   | 1.8                  | 2.3  | 82-11-080-16                    | ----          | 82-12-080-16 | ----         |
| 0.7              | 1.2 | --               | --  | --             | --   | --               | --   | 2.3                  | 2.8  | 82-11-100-16                    | 82-14-100-16  | 82-12-100-16 | ----         |
| 1.2              | 1.7 | --               | --  | --             | --   | --               | --   | 2.8                  | 3.3  | 82-11-120-16                    | 82-14-120-16  | 82-12-120-16 | 82-78-120-16 |
| 1.7              | 2.2 | --               | --  | --             | --   | --               | --   | 3.3                  | 3.8  | 82-11-140-16                    | 82-14-140-16  | 82-12-140-16 | 82-78-140-16 |
| 2.2              | 2.7 | --               | --  | 0              | 0.5  | 1.3              | 1.8  | 3.8                  | 4.3  | 82-11-160-16                    | 82-14-160-16  | 82-12-160-16 | 82-78-160-16 |
| 2.7              | 3.2 | --               | --  | 0.5            | 1    | 1.8              | 2.3  | 4.3                  | 4.8  | 82-11-180-16                    | 82-14-180-16  | 82-12-180-16 | 82-78-180-16 |
| 3.2              | 3.7 | --               | --  | 1              | 1.5  | 2.3              | 2.8  | 4.8                  | 5.3  | 82-11-200-16                    | 82-14-200-16  | 82-12-200-16 | 82-78-200-16 |
| 3.7              | 4.2 | --               | --  | 1.5            | 2    | 2.8              | 3.3  | 5.3                  | 5.8  | 82-11-220-16                    | 82-14-220-16  | 82-12-220-16 | 82-78-220-16 |
| 4.2              | 4.7 | --               | --  | 2              | 2.5  | 3.3              | 3.8  | 5.8                  | 6.3  | 82-11-240-16                    | 82-14-240-16  | 82-12-240-16 | 82-78-240-16 |
| 4.7              | 5.2 | 0.5              | 1.5 | 2.5            | 3    | 3.8              | 4.3  | 6.4                  | 6.9  | 82-11-260-16                    | 82-14-260-16  | 82-12-260-16 | 82-78-260-16 |
| 5.2              | 5.7 | 1                | 2   | 3              | 3.5  | 4.3              | 4.8  | 6.9                  | 7.4  | 82-11-280-16                    | 82-14-280-16  | 82-12-280-16 | 82-78-280-16 |
| 5.7              | 6.2 | 1.5              | 2.5 | 3.6            | 4.1  | 4.8              | 5.3  | 7.4                  | 7.9  | 82-11-300-16                    | 82-14-300-16  | 82-12-300-16 | 82-78-300-16 |
| --               | --  | 2                | 3   | 4.1            | 4.6  | 5.3              | 5.8  | 7.9                  | 8.4  | 82-11-320-16                    | 82-14-320-16  | 82-12-320-16 | 82-78-320-16 |
| --               | --  | 2.5              | 3.6 | 4.6            | 5.1  | 5.8              | 6.3  | 8.4                  | 8.9  | 82-11-340-16                    | 82-14-340-16  | 82-12-340-16 | 82-78-340-16 |
| --               | --  | 3                | 4.1 | 5.1            | 5.6  | 6.4              | 6.9  | 8.9                  | 9.4  | 82-11-360-16                    | 82-14-360-16  | 82-12-360-16 | 82-78-360-16 |
| --               | --  | 3.6              | 4.6 | 5.6            | 6.1  | 6.9              | 7.4  | 9.4                  | 9.9  | 82-11-380-16                    | 82-14-380-16  | 82-12-380-16 | 82-78-380-16 |
| --               | --  | 4.1              | 5.1 | 6.1            | 6.6  | 7.4              | 7.9  | 9.9                  | 10.4 | 82-11-400-16                    | 82-14-400-16  | 82-12-400-16 | 82-78-400-16 |
| --               | --  | 4.6              | 5.6 | 6.6            | 7.1  | 7.9              | 8.4  | 10.4                 | 10.9 | 82-11-420-16                    | 82-14-420-16  | 82-12-420-16 | 82-78-420-16 |
| --               | --  | 5.1              | 6.1 | 7.1            | 7.6  | 8.4              | 8.9  | 10.9                 | 11.4 | 82-11-440-16                    | 82-14-440-16  | 82-12-440-16 | 82-78-440-16 |
| --               | --  | 5.6              | 6.6 | 7.6            | 8.1  | 8.9              | 9.4  | 11.4                 | 11.9 | 82-11-460-16                    | 82-14-460-16  | 82-12-460-16 | 82-78-460-16 |
| --               | --  | 6.1              | 7.1 | 8.1            | 8.6  | 9.4              | 9.9  | 11.9                 | 12.4 | 82-11-480-16                    | 82-14-480-16  | 82-12-480-16 | 82-78-480-16 |
| --               | --  | 6.6              | 7.6 | 8.6            | 9.1  | 9.9              | 10.4 | 12.5                 | 12.9 | 82-11-500-16                    | 82-14-500-16  | 82-12-500-16 | 82-78-500-16 |
| --               | --  | 7.1              | 8.1 | 9.1            | 9.6  | 10.4             | 10.9 | 13                   | 13.5 | 82-11-520-16                    | 82-14-520-16  | 82-12-520-16 | 82-78-520-16 |
| --               | --  | 7.6              | 8.6 | 9.6            | 10.1 | 10.9             | 11.4 | 13.5                 | 14   | 82-11-540-16                    | 82-14-540-16  | 82-12-540-16 | 82-78-540-16 |
| --               | --  | 8.1              | 9.1 | 10.2           | 10.7 | 11.4             | 11.9 | 14                   | 14.5 | 82-11-560-16                    | 82-14-560-16  | 82-12-560-16 | 82-78-560-16 |
| --               | --  | 8.6              | 9.6 | 10.7           | 11.2 | 11.9             | 12.4 | 14.5                 | 15   | 82-11-580-16                    | 82-14-580-16  | 82-12-580-16 | 82-78-580-16 |

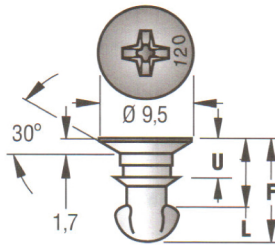
## Oval Phillips Recess

No.2  
Phillips recess

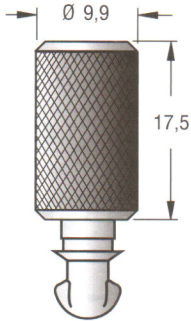


## Flush Phillips Recess

No.2  
Phillips recess

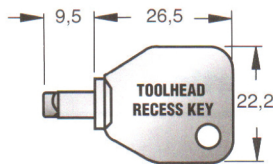
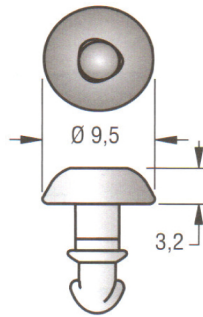


## Knurled Head



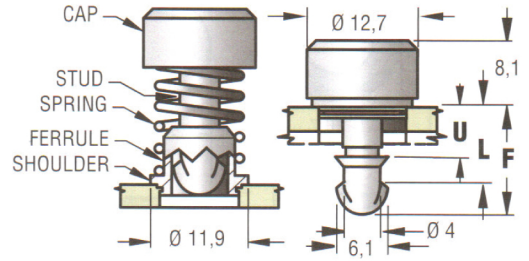
## ToolHead Recess

Key Part Number 29-90-214-10



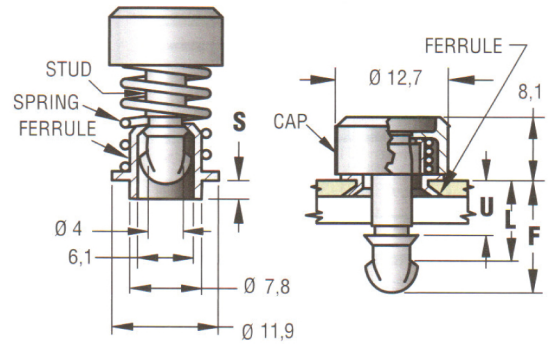
## Press-In Stud Assembly

Note: stud will float 1 (0.040")  
total movement



## Flare-In Stud Assembly

No.2 Phillips recess



**southco**

### Stud Part Number

### Stud Assemblies

### Dimension

Zinc plates, chromate plus sealer

Press-in Style

Flare-In Style  
Bright

| Oval<br>Phillips<br>Recess | Flush<br>Phillips<br>Recess | Bail Style<br>RB | Bail Style<br>RA | Knurled<br>Head | ToolHead<br>Recess | Bright       | Black        | I<br>S=1.5   | II<br>S=2.6  | U    | L    | F    |
|----------------------------|-----------------------------|------------------|------------------|-----------------|--------------------|--------------|--------------|--------------|--------------|------|------|------|
| 82-19-080-16               | -----                       | -----            | -----            | 82-13-080-16    | 82-T-080           | -----        | -----        | -----        | -----        | 2.7  | 5.7  | 9.5  |
| 82-19-100-16               | 82-28-100-16                | -----            | -----            | 82-13-100-16    | 82-T-100           | 82-56-105-60 | 82-56-105-50 | -----        | -----        | 3.2  | 6.2  | 10   |
| 82-19-120-16               | 82-28-120-16                | 82-16-120-16     | 82-15-120-16     | 82-13-120-16    | 82-T-120           | 82-56-125-60 | 82-56-125-50 | 82-56-121-60 | 82-56-122-60 | 3.7  | 6.7  | 10.5 |
| 82-19-140-16               | 82-28-140-16                | 82-16-140-16     | 82-15-140-16     | 82-13-140-16    | 82-T-140           | 82-56-145-60 | 82-56-145-50 | 82-56-141-60 | 82-56-142-60 | 4.2  | 7.2  | 11.1 |
| 82-19-160-16               | 82-28-160-16                | 82-16-160-16     | 82-15-160-16     | 82-13-160-16    | 82-T-160           | 82-56-165-60 | 82-56-165-50 | 82-56-161-60 | 82-56-162-60 | 4.8  | 7.8  | 11.6 |
| 82-19-180-16               | 82-28-180-16                | 82-16-180-16     | 82-15-180-16     | 82-13-180-16    | 82-T-180           | 82-56-185-60 | 82-56-185-50 | 82-56-181-60 | 82-56-182-60 | 5.3  | 8.3  | 12.1 |
| 82-19-200-16               | 82-28-200-16                | 82-16-200-16     | 82-15-200-16     | 82-13-200-16    | 82-T-200           | 82-56-205-60 | 82-56-205-50 | 82-56-201-60 | 82-56-202-60 | 5.8  | 8.8  | 12.6 |
| 82-19-220-16               | 82-28-220-16                | 82-16-220-16     | 82-15-220-16     | 82-13-220-16    | 82-T-220           | 82-56-225-60 | 82-56-225-50 | 82-56-221-60 | 82-56-222-60 | 6.3  | 9.3  | 13.1 |
| 82-19-240-16               | 82-28-240-16                | 82-16-240-16     | 82-15-240-16     | 82-13-240-16    | 82-T-240           | 82-56-245-60 | 82-56-245-50 | 82-56-241-60 | 82-56-242-60 | 6.8  | 9.8  | 13.6 |
| 82-19-260-16               | 82-28-260-16                | 82-16-260-16     | 82-15-260-16     | 82-13-260-16    | 82-T-260           | 82-56-265-60 | 82-56-265-50 | 82-56-261-60 | 82-56-262-60 | 7.3  | 10.3 | 14.1 |
| 82-19-280-16               | 82-28-280-16                | 82-16-280-16     | 82-15-280-16     | 82-13-280-16    | 82-T-280           | 82-56-285-60 | 82-56-285-50 | 82-56-281-60 | 82-56-282-60 | 7.8  | 10.8 | 14.6 |
| 82-19-300-16               | 82-28-300-16                | 82-16-300-16     | 82-15-300-16     | 82-13-300-16    | 82-T-300           | 82-56-305-60 | 82-56-305-50 | 82-56-301-60 | 82-56-302-60 | 8.3  | 11.3 | 15.1 |
| 82-19-320-16               | 82-28-320-16                | 82-16-320-16     | 82-15-320-16     | 82-13-320-16    | 82-T-320           | 82-56-325-60 | 82-56-325-50 | 82-56-321-60 | 82-56-322-60 | 8.8  | 11.8 | 15.6 |
| 82-19-340-16               | 82-28-340-16                | 82-16-340-16     | 82-15-340-16     | 82-13-340-16    | 82-T-340           | 82-56-345-60 | 82-56-345-50 | 82-56-341-60 | 82-56-342-60 | 9.3  | 12.3 | 16.1 |
| 82-19-360-16               | 82-28-360-16                | 82-16-360-16     | 82-15-360-16     | 82-13-360-16    | 82-T-360           | 82-56-365-60 | 82-56-365-50 | 82-56-361-60 | 82-56-362-60 | 9.8  | 12.8 | 16.6 |
| 82-19-380-16               | 82-28-380-16                | 82-16-380-16     | 82-15-380-16     | 82-13-380-16    | 82-T-380           | 82-56-385-60 | 82-56-385-50 | 82-56-381-60 | 82-56-382-60 | 10.3 | 13.3 | 17.2 |
| 82-19-400-16               | 82-28-400-16                | 82-16-400-16     | 82-15-400-16     | 82-13-400-16    | 82-T-400           | 82-56-405-60 | 82-56-405-50 | 82-56-401-60 | 82-56-402-60 | 10.9 | 13.8 | 17.7 |
| 82-19-420-16               | 82-28-420-16                | 82-16-420-16     | 82-15-420-16     | 82-13-420-16    | 82-T-420           | 82-56-425-60 | 82-56-425-50 | -----        | -----        | 11.4 | 14.4 | 18.2 |
| 82-19-440-16               | 82-28-440-16                | 82-16-440-16     | 82-15-440-16     | 82-13-440-16    | 82-T-440           | 82-56-445-60 | 82-56-445-50 | -----        | -----        | 11.9 | 14.9 | 18.7 |
| 82-19-460-16               | 82-28-460-16                | 82-16-460-16     | 82-15-460-16     | 82-13-460-16    | 82-T-460           | 82-56-465-60 | 82-56-465-50 | -----        | -----        | 12.4 | 15.4 | 19.2 |
| 82-19-480-16               | 82-28-480-16                | 82-16-480-16     | 82-15-480-16     | 82-13-480-16    | 82-T-480           | 82-56-485-60 | 82-56-485-50 | -----        | -----        | 12.9 | 15.9 | 19.7 |
| 82-19-500-16               | 82-28-500-16                | 82-16-500-16     | 82-15-500-16     | 82-13-500-16    | 82-T-500           | 82-56-505-60 | 82-56-505-50 | -----        | -----        | 13.4 | 16.4 | 20.2 |
| 82-19-520-16               | 82-28-520-16                | 82-16-520-16     | 82-15-520-16     | 82-13-520-16    | 82-T-520           | 82-56-525-60 | 82-56-525-50 | -----        | -----        | 13.9 | 16.9 | 20.7 |
| 82-19-540-16               | 82-28-540-16                | 82-16-540-16     | 82-15-540-16     | 82-13-540-16    | 82-T-540           | 82-56-545-60 | 82-56-545-50 | -----        | -----        | 14.4 | 17.4 | 21.2 |
| 82-19-560-16               | 82-28-560-16                | 82-16-560-16     | 82-15-560-16     | 82-13-560-16    | 82-T-560           | 82-56-565-60 | 82-56-565-50 | -----        | -----        | 14.9 | 17.9 | 21.7 |
| 82-19-580-16               | 82-28-580-16                | 82-16-580-16     | 82-15-580-16     | 82-13-580-16    | 82-T-580           | 82-56-585-60 | 82-56-585-50 | -----        | -----        | 15.4 | 18.4 | 22.2 |