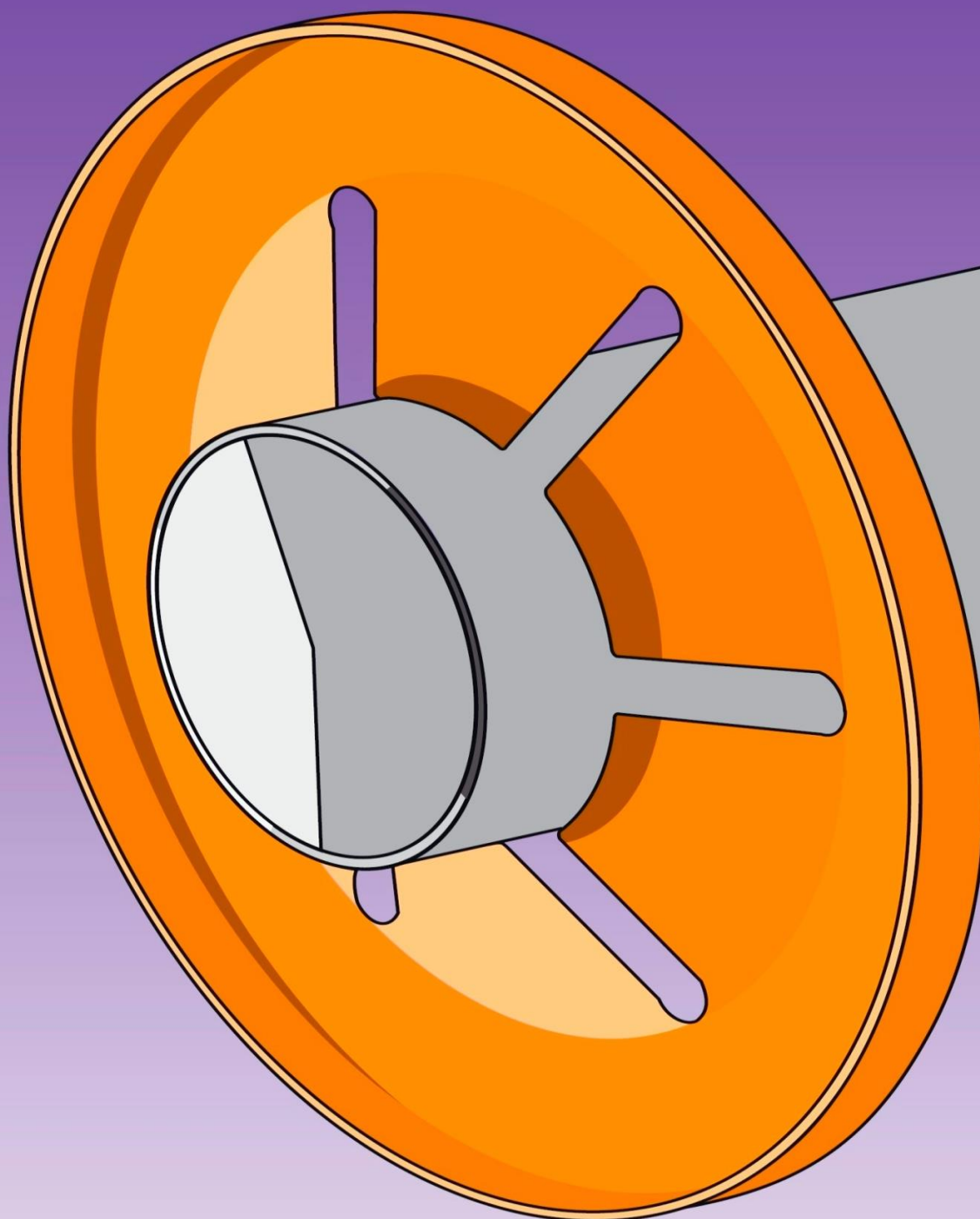




■ STARLOCK® push on fasteners



B&F Starlock GB (1013)2



VIBA NV is importeur van Starlock

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The technical data, performance specifications, advice and recommendations e.g. application examples which appear in this catalogue are for guidance only. They are based on our experience. Legal claims cannot be made against us because we have no influence on the diversity of applications for which our products may be used. Indeed the user is obliged to undertake sufficient testing to ensure that our products are suitable for the intended application. We reserve the right to make technical changes at any time.

Reprint or copying of this catalogue - including extracts - or use of our illustrations or Titgemeyer part numbering system is only permitted with our explicit written approval.

PRODUCT DESCRIPTION

Starlock® fasteners simply push on to a shaft giving an instant fix and grip, thus eliminating costly threading, drilling or grooving operations. Once fixed in position, the Starlock® push-on fastener is so secure that it cannot be removed without destruction.

Material

Starlock® push on fasteners are manufactured from spring steel or stainless steel. Finest quality high carbon spring steel is specially heat treated to ensure secure holding quality.

Surface finish

Starlock® push on fasteners are available for metric and imperial applications. Standard spring steel metric parts have a bronze colour and standard spring steel imperial parts have a blue colour. The parts are given a thin varnish coating to provide a high level of finish. This surface finish will not protect against corrosion but is adequate for the protection of the Starlock® in most dry environments.

A higher level of corrosion protection on spring steel parts can be provided by a mechanical zinc finish, which is universally recognised, as an answer to avoid the negative effects of hydrogen embrittlement.

Other surface finishes for corrosion protection of spring steel parts are available on request.

When applications require a high level of corrosion resistance, stainless steel Starlock® parts are available to provide the answer.

Capped Starlock®

Starlock® push on fasteners can be fitted with a cap to conceal the fixing and enhance appearance.

The standard dome cap is manufactured from Stainless steel. The height of the dome cap has been developed to allow the shaft to penetrate through the Starlock® push on fastener sufficiently to provide maximum grip.

The standard deep cap is also manufactured from stainless steel and has been designed to allow for greater penetration through the Starlock® fastener allowing it to grip further along the shaft.

Extra deep caps are manufactured from electro-plated steel and provide the maximum amount of shaft penetration.

Nylon caps are available on request and in the colour required to suit your specific application.





APPLICATION EXAMPLES

The Starlock® push on fastener is a precision pressing designed for applications where a quick, permanent and efficient means of assembly is required to retain plain shafts of steel, non-ferrous and plastic materials. Starlock® push on fasteners have been used in the design of thousands of products around the world since the 1950s.

Automotive: ISO/TS 16949 approved

- Starlock® push on fasteners are used in many automotive applications and are manufactured in accordance with the requirements of the international automotive standard ISO/TS 16949, which aligns existing US, German, French and Italian automotive quality system standards within the global automotive industry. It specifies the quality system requirements for the design, development, production, installation and servicing of automotive related products.



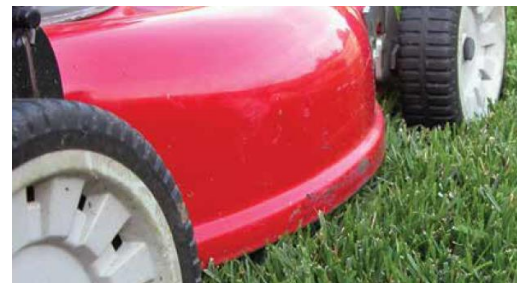
Industrial applications

- Medical applications for Starlock® are many and varied, ranging from axle caps on beds and trollies through to complicated diagnostic equipment.
- The electrical and electronics industries design the Starlock® push on fix principle into components that need a swift and permanent assembly.
- Construction insulation retention is a good example where a Starlock® with a small inside and large outside diameter is used.



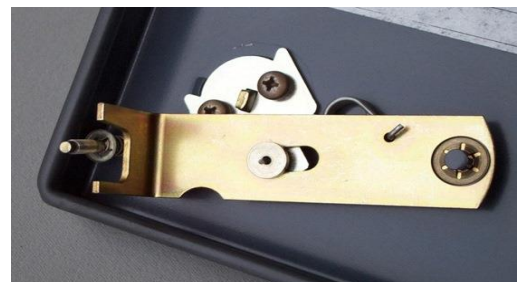
Applications at home

- Many household appliances that simply need to retain components within an assembly are fixed using a Starlock® push on fastener.
- Toys, go-karts and even hand puppets benefit from the cost effective and easy to assemble Starlock®.
- Capped Starlock® push on fasteners are such easy to use and effective products for retaining wheels, that they are used extensively in many wheeled products from lawn mowers to prams.



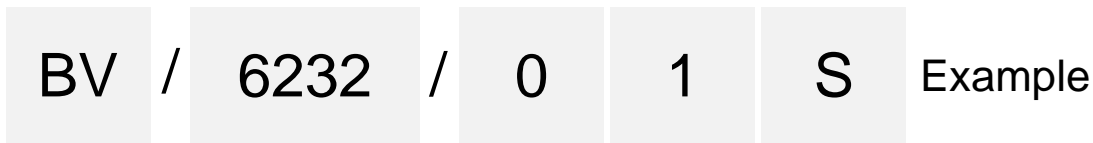
Applications at the office

- Special Starlock® fasteners for square shafts are used to assemble door handles.
- Special Starlock® inlock washers are used successfully in the manufacture of tubular office furniture.
- Computers and other office equipment contain standard Starlock® fasteners.





PART IDENTIFICATION



Cap material

- S** - stainless steel, self colour
- A** - steel, electro plated zinc
- N** - nylon, colour on request
- K** - aluminium, on request

Cap size

- 0** - nominal external Ø 7.2 mm / 0.285"
- 1** - nominal external Ø 10.6 mm / 0.420"
- 2** - nominal external Ø 12.4 mm / 0.485"
- 3** - nominal external Ø 16.2 mm / 0.640"
- 4** - nominal external Ø 19.7 mm / 0.780"
- 5** - nominal external Ø 26.0 mm / 1.025"
- 6** - nominal external Ø 29.4 mm / 1.160"
- 7** - nominal external Ø 38.2 mm / 1.505"
- 8** - nominal external Ø 39.8 mm / 1.565"
- 9** - nominal external Ø 43.0 mm / 1.695"

Cap style

- 0** - dome cap - size 0 to 9
- 3** - deep cap - size 1 to 5
- 4** - extra deep cap - size 2 to 4
- 5** - nylon cap

Starlock part number

- 4 digit non-sequential number, unique for each size and style

Material and surface finish

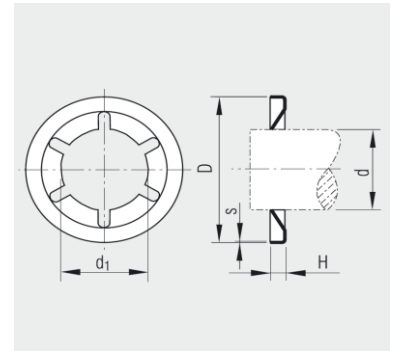
- BV** - spring steel with bronze varnish finish (metric parts) or blue varnish finish (imperial parts)
- DT** - spring steel with mechanical zinc finish for improved protection against corrosion
- S** - stainless steel in self colour



for metric round shafts
standard uncapped

Material

- **Spring steel**
- bronze varnish finish



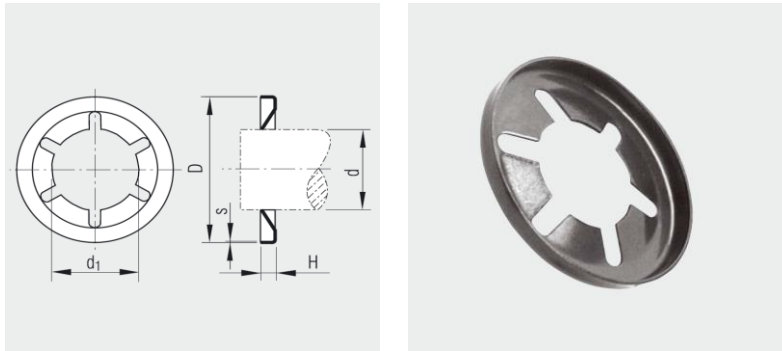
| Shaft-Ø | Internal-Ø | External-Ø | Height | Material thickness | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|----------|---------------|--------------|--------------|--------------------|----------------|---------------|-----------------------------|-----------------|-----------------|
| d* mm | d1 mm | D ±0.2 mm | H ±0.2 mm | s mm | | N | N | | |
| 1.5 | 1.23 - 1.46 | 9.7 | 1.3 | 0.20 | 4 | 39 | 196 | BV/8004 | - / - |
| 2.0 | 1.61 - 1.84 | 9.7 | 1.3 | 0.20 | 4 | 69 | 196 | BV/6489 | 399 202 |
| 3.0 | 2.58 - 2.81 | 9.7 | 1.3 | 0.20 | 4 | 108 | 196 | BV/6490 | 399 204 |
| 4.0 | 3.57 - 3.80 | 11.5 | 1.3 | 0.20 | 5 | 69 | 392 | BV/6492 | 399 206 |
| 5.0 | 4.51 - 4.74 | 11.5 | 1.3 | 0.20 | 6 | 118 | 392 | BV/6491 | 399 208 |
| 6.0 | 5.45 - 5.70 | 15.3 | 1.3 | 0.25 | 6 | 147 | 785 | BV/6493 | 399 209 |
| 7.0 | 6.46 - 6.72 | 15.3 | 1.3 | 0.25 | 6 | 186 | 785 | BV/6703 | 399 211 |
| 8.0 | 7.40 - 7.66 | 15.3 | 1.3 | 0.25 | 6 | 216 | 785 | BV/6704 | 399 212 |
| 9.0 | 8.50 - 8.75 | 18.4 | 1.9 | 0.30 | 6 | 206 | 981 | BV/6708 | 399 213 |
| 10.0 | 9.49 - 9.74 | 18.4 | 1.9 | 0.30 | 6 | 284 | 981 | BV/6496 | 399 215 |
| 11.0 | 10.50 - 10.76 | 18.4 | 1.9 | 0.30 | 6 | 412 | 981 | BV/6706 | 399 216 |
| 12.0 | 11.37 - 11.62 | 25.0 | 2.3 | 0.40 | 6 | 441 | 2453 | BV/6713 | 399 217 |
| 13.0 | 12.38 - 12.64 | 25.0 | 2.3 | 0.40 | 6 | 343 | 2453 | BV/6829 | 399 219 |
| 14.0 | 13.40 - 13.65 | 28.2 | 2.3 | 0.40 | 6 | 245 | 2453 | BV/6825 | 399 220 |
| 15.0 | 14.43 - 14.68 | 28.2 | 2.3 | 0.40 | 6 | 334 | 2453 | BV/6714 | 399 221 |
| 16.0 | 15.28 - 15.53 | 28.2 | 2.3 | 0.40 | 6 | 549 | 2453 | BV/6826 | 399 222 |
| 17.0 | 16.42 - 16.68 | 28.2 | 2.3 | 0.40 | 6 | 481 | 2453 | BV/6715 | 399 223 |
| 18.0 | 17.34 - 17.62 | 36.6 | 3.0 | 0.40 | 9 | 226 | 3434 | BV/6827 | 399 224 |
| 19.0 | 18.40 - 18.69 | 36.6 | 3.0 | 0.40 | 9 | 157 | 3777 | BV/6828 | 399 225 |
| 20.0 | 19.30 - 19.63 | 36.6 | 3.0 | 0.40 | 9 | 265 | 3434 | BV/6716 | 399 226 |
| 21.0 | 20.33 - 20.61 | 36.6 | 3.0 | 0.40 | 9 | 206 | 3777 | BV/6830 | 399 227 |
| 22.0 | 21.37 - 21.65 | 36.6 | 3.0 | 0.40 | 9 | 540 | 3434 | BV/6719 | 399 228 |
| 23.0 | 22.34 - 22.62 | 38.1 | 2.9 | 0.45 | 9 | 697 | 3434 | BV/6831 | 399 229 |
| 24.0 | 23.33 - 23.66 | 41.3 | 3.2 | 0.50 | 9 | 451 | 3777 | BV/6832 | 399 230 |
| 25.0 | 24.30 - 24.63 | 41.3 | 3.2 | 0.50 | 9 | 559 | 3777 | BV/6717 | 399 231 |

* The tolerance on the shaft Ø up to and including 16mm is ± 0.05mm and above 16mm is ± 0.1mm.

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

Other surface finishes are available e.g. DELTA Tone + Seal (for shaft diameters from 12.0 mm) depending on quantity on request.

We reserve the right to amend specifications at any time.



for imperial round shafts
standard uncapped

Material

- Spring steel
blue varnish finish

| Shaft-Ø | Internal-Ø | External-Ø | Height | Material thickness | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|---------|-----------------|------------|----------|--------------------|----------------|---------------|-----------------------------|-----------------|-----------------|
| d* | d1 | D ±0.008 | H ±0.008 | s | | N | N | | |
| inch | inch | inch | inch | inch | | | | | |
| 1/16 | 0.0485 - 0.0575 | 0.382 | 0.050 | 0.008 | 4 | 39 | 196 | BV/6218 | 399 201 |
| 3/32 | 0.0795 - 0.0885 | 0.382 | 0.050 | 0.008 | 4 | 49 | 196 | BV/5883 | 399 203 |
| 1/8 | 0.1095 - 0.1185 | 0.382 | 0.050 | 0.008 | 4 | 118 | 196 | BV/5897 | 399 205 |
| 3/16 | 0.1695 - 0.1785 | 0.452 | 0.050 | 0.008 | 6 | 59 | 392 | BV/5920 | 399 207 |
| 1/4 | 0.2295 - 0.2395 | 0.602 | 0.050 | 0.010 | 6 | 108 | 785 | BV/5873 | 399 210 |
| 9/32 | 0.2605 - 0.2705 | 0.602 | 0.050 | 0.010 | 6 | 196 | 785 | BV/6326 | - / - |
| 5/16 | 0.2915 - 0.3015 | 0.602 | 0.050 | 0.010 | 6 | 216 | 785 | BV/5821 | - / - |
| 11/32 | 0.3235 - 0.3335 | 0.726 | 0.076 | 0.012 | 6 | 167 | 981 | BV/6332 | - / - |
| 3/8 | 0.3545 - 0.3645 | 0.726 | 0.076 | 0.012 | 6 | 206 | 981 | BV/6020 | 399 214 |
| 7/16 | 0.4175 - 0.4275 | 0.985 | 0.092 | 0.016 | 6 | 147 | 2453 | BV/6216 | - / - |
| 1/2 | 0.4765 - 0.4865 | 0.985 | 0.092 | 0.016 | 6 | 343 | 2453 | BV/6143 | 399 218 |
| 5/8 | 0.6005 - 0.6115 | 0.985 | 0.092 | 0.016 | 6 | 598 | 2453 | BV/6185 | - / - |
| 3/4 | 0.7245 - 0.7355 | 1.440 | 0.119 | 0.016 | 9 | 157 | 3434 | BV/6322 | - / - |
| 7/8 | 0.8495 - 0.8605 | 1.503 | 0.115 | 0.018 | 9 | 451 | 3434 | BV/6328 | - / - |
| 1 | 0.9735 - 0.9865 | 1.629 | 0.125 | 0.020 | 9 | 706 | 3777 | BV/6329 | - / - |

* The tolerance on the shaft Ø up to and including 5/8" is ± 0.002" and above 5/8" is ± 0.004".

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

Other surface finishes are available e.g. DELTA Tone + Seal (for shaft diameters from 1/2 inch) depending on quantity on request.

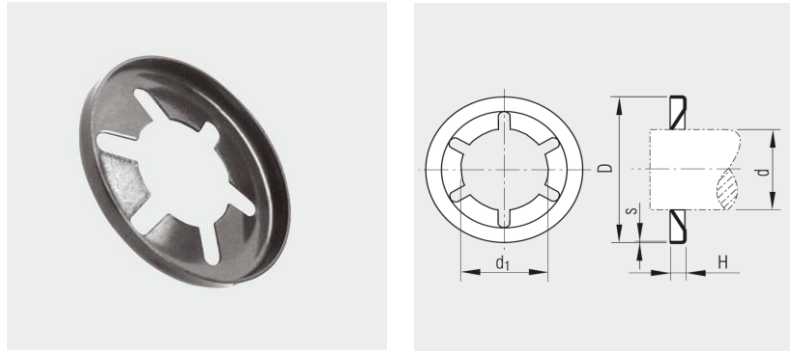
We reserve the right to amend specifications at any time.



for metric round shafts
standard uncapped

Material

- **Spring steel**
mechanical zinc finish



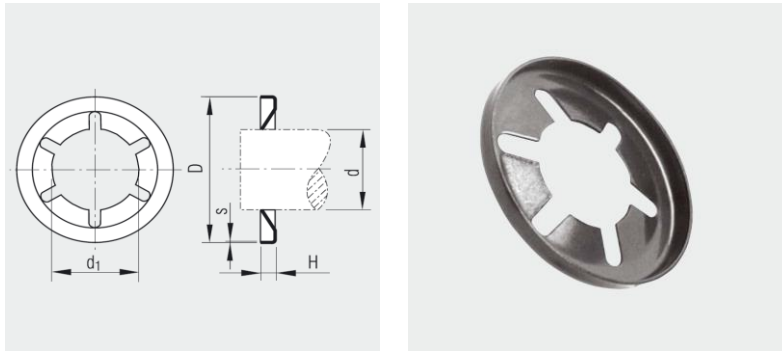
| Shaft-Ø | Internal-Ø | External-Ø | Height | Material thickness | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|----------|---------------|--------------|--------------|--------------------|----------------|---------------|-----------------------------|-----------------|-----------------|
| d* mm | d1 mm | D ±0.2 mm | H ±0.2 mm | s mm | | N | N | | |
| 1.5 | 1.23 - 1.46 | 9.7 | 1.3 | 0.20 | 4 | 39 | 196 | DT/8004 | - / - |
| 2.0 | 1.61 - 1.84 | 9.7 | 1.3 | 0.20 | 4 | 69 | 196 | DT/6489 | 399 402 |
| 3.0 | 2.58 - 2.81 | 9.7 | 1.3 | 0.20 | 4 | 108 | 196 | DT/6490 | 399 404 |
| 4.0 | 3.57 - 3.80 | 11.5 | 1.3 | 0.20 | 5 | 69 | 392 | DT/6492 | 399 406 |
| 5.0 | 4.51 - 4.74 | 11.5 | 1.3 | 0.20 | 6 | 118 | 392 | DT/6491 | 399 408 |
| 6.0 | 5.45 - 5.70 | 15.3 | 1.3 | 0.25 | 6 | 147 | 785 | DT/6493 | 399 409 |
| 7.0 | 6.46 - 6.72 | 15.3 | 1.3 | 0.25 | 6 | 186 | 785 | DT/6703 | 399 411 |
| 8.0 | 7.40 - 7.66 | 15.3 | 1.3 | 0.25 | 6 | 216 | 785 | DT/6704 | 399 412 |
| 9.0 | 8.50 - 8.75 | 18.4 | 1.9 | 0.30 | 6 | 206 | 981 | DT/6708 | 399 413 |
| 10.0 | 9.49 - 9.74 | 18.4 | 1.9 | 0.30 | 6 | 284 | 981 | DT/6496 | 399 415 |
| 11.0 | 10.50 - 10.76 | 18.4 | 1.9 | 0.30 | 6 | 412 | 981 | DT/6706 | 399 416 |
| 12.0 | 11.37 - 11.62 | 25.0 | 2.3 | 0.40 | 6 | 441 | 2453 | DT/6713 | 399 417 |
| 13.0 | 12.38 - 12.64 | 25.0 | 2.3 | 0.40 | 6 | 343 | 2453 | DT/6829 | 399 419 |
| 14.0 | 13.40 - 13.65 | 28.2 | 2.3 | 0.40 | 6 | 245 | 2453 | DT/6825 | 399 420 |
| 15.0 | 14.43 - 14.68 | 28.2 | 2.3 | 0.40 | 6 | 334 | 2453 | DT/6714 | 399 421 |
| 16.0 | 15.28 - 15.53 | 28.2 | 2.3 | 0.40 | 6 | 549 | 2453 | DT/6826 | 399 422 |
| 17.0 | 16.42 - 16.68 | 28.2 | 2.3 | 0.40 | 6 | 481 | 2453 | DT/6715 | 399 423 |
| 18.0 | 17.34 - 17.62 | 36.6 | 3.0 | 0.40 | 9 | 226 | 3434 | DT/6827 | 399 424 |
| 19.0 | 18.40 - 18.69 | 36.6 | 3.0 | 0.40 | 9 | 157 | 3777 | DT/6828 | 399 425 |
| 20.0 | 19.30 - 19.63 | 36.6 | 3.0 | 0.40 | 9 | 265 | 3434 | DT/6716 | 399 426 |
| 21.0 | 20.33 - 20.61 | 36.6 | 3.0 | 0.40 | 9 | 206 | 3777 | DT/6830 | 399 427 |
| 22.0 | 21.37 - 21.65 | 36.6 | 3.0 | 0.40 | 9 | 540 | 3434 | DT/6719 | 399 428 |
| 23.0 | 22.34 - 22.62 | 38.1 | 2.9 | 0.45 | 9 | 697 | 3434 | DT/6831 | 399 429 |
| 24.0 | 23.33 - 23.66 | 41.3 | 3.2 | 0.50 | 9 | 451 | 3777 | DT/6832 | - / - |
| 25.0 | 24.30 - 24.63 | 41.3 | 3.2 | 0.50 | 9 | 559 | 3777 | DT/6717 | 399 431 |

* The tolerance on the shaft Ø up to and including 16mm is ± 0.05mm and above 16mm is ± 0.1mm.

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

Other surface finishes are available e.g. DELTA Tone + Seal (for shaft diameters from 12.0 mm) depending on quantity on request.

We reserve the right to amend specifications at any time.



for imperial round shafts
standard uncapped

Material

- Spring steel
mechanical zinc finish

| Shaft-Ø | Internal-Ø | External-Ø | Height | Material thickness | Number of legs | Push on force | Pull off force¹ | B&F Part Number | GTO Part Number |
|------------|-----------------|------------------|------------------|--------------------|----------------|---------------|-----------------|-----------------|-----------------|
| d* inch | d1 inch | D ±0.008 inch | H ±0.008 inch | s inch | | N | N | | |
| 1/16 | 0.0485 - 0.0575 | 0.382 | 0.050 | 0.008 | 4 | 39 | 196 | DT/6218 | 399 401 |
| 3/32 | 0.0795 - 0.0885 | 0.382 | 0.050 | 0.008 | 4 | 49 | 196 | DT/5883 | 399 403 |
| 1/8 | 0.1095 - 0.1185 | 0.382 | 0.050 | 0.008 | 4 | 118 | 196 | DT/5897 | 399 405 |
| 3/16 | 0.1695 - 0.1785 | 0.452 | 0.050 | 0.008 | 6 | 59 | 392 | DT/5920 | 399 407 |
| 1/4 | 0.2295 - 0.2395 | 0.602 | 0.050 | 0.010 | 6 | 108 | 785 | DT/5873 | 399 410 |
| 9/32 | 0.2605 - 0.2705 | 0.602 | 0.050 | 0.010 | 6 | 196 | 785 | DT/6326 | - / - |
| 5/16 | 0.2915 - 0.3015 | 0.602 | 0.050 | 0.010 | 6 | 216 | 785 | DT/5821 | - / - |
| 11/32 | 0.3235 - 0.3335 | 0.726 | 0.076 | 0.012 | 6 | 167 | 981 | DT/6332 | - / - |
| 3/8 | 0.3545 - 0.3645 | 0.726 | 0.076 | 0.012 | 6 | 206 | 981 | DT/6020 | 399 414 |
| 7/16 | 0.4175 - 0.4275 | 0.985 | 0.092 | 0.016 | 6 | 147 | 2453 | DT/6216 | - / - |
| 1/2 | 0.4765 - 0.4865 | 0.985 | 0.092 | 0.016 | 6 | 343 | 2453 | DT/6143 | 399 418 |
| 5/8 | 0.6005 - 0.6115 | 0.985 | 0.092 | 0.016 | 6 | 598 | 2453 | DT/6185 | - / - |
| 3/4 | 0.7245 - 0.7355 | 1.440 | 0.119 | 0.016 | 9 | 157 | 3434 | DT/6322 | - / - |
| 7/8 | 0.8495 - 0.8605 | 1.503 | 0.115 | 0.018 | 9 | 451 | 3434 | DT/6328 | - / - |
| 1 | 0.9735 - 0.9865 | 1.629 | 0.125 | 0.020 | 9 | 706 | 3777 | DT/6329 | - / - |

* The tolerance on the shaft Ø up to and including 5/8" is ± 0.002" and above 5/8" is ± 0.004".

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

Other surface finishes are available e.g. DELTA Tone + Seal (for shaft diameters from 1/2 inch) depending on quantity on request.

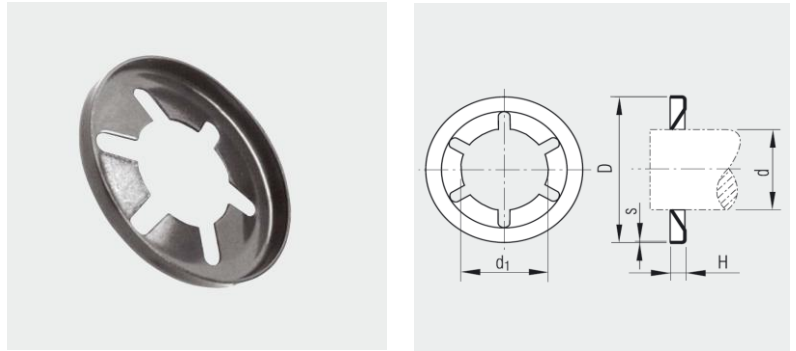
We reserve the right to amend specifications at any time.



for metric round shafts
standard uncapped

Material

■ **Stainless steel**
self colour



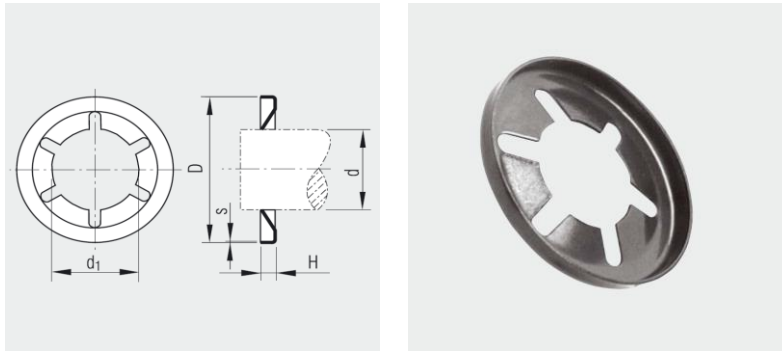
| Shaft-Ø | Internal-Ø | External-Ø | Height | Material thickness | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|----------|---------------|--------------|--------------|--------------------|----------------|--------------------|-----------------------------|-----------------|-----------------|
| d* mm | d1 mm | D ±0.2 mm | H ±0.2 mm | s mm | | N | N | | |
| 1.5 | 1.23 - 1.46 | 9.7 | 1.3 | 0.20 | 4 | 39 | 196 | S/8004 | - / - |
| 2.0 | 1.61 - 1.84 | 9.7 | 1.3 | 0.20 | 4 | 69 | 196 | S/6489 | 399 802 |
| 3.0 | 2.58 - 2.81 | 9.7 | 1.3 | 0.20 | 4 | 108 | 196 | S/6490 | 399 804 |
| 4.0 | 3.57 - 3.80 | 11.5 | 1.3 | 0.20 | 5 | 69 | 294 | S/6492 | 399 806 |
| 5.0 | 4.51 - 4.74 | 11.5 | 1.3 | 0.20 | 6 | 118 | 294 | S/6491 | 399 808 |
| 6.0 | 5.45 - 5.70 | 15.3 | 1.3 | 0.25 | 6 | 147 | 588 | S/6493 | 399 909 |
| 7.0 | 6.46 - 6.72 | 15.3 | 1.3 | 0.25 | 6 | 186 | 588 | S/6703 | 399 811 |
| 8.0 | 7.40 - 7.66 | 15.3 | 1.3 | 0.25 | 6 | 216 | 588 | S/6704 | 399 812 |
| 9.0 | 8.50 - 8.75 | 18.4 | 1.9 | 0.30 | 6 | 196 | 784 | S/6708 | 399 813 |
| 10.0 | 9.49 - 9.74 | 18.4 | 1.9 | 0.30 | 6 | 196 | 784 | S/6496 | 399 815 |
| 11.0 | 10.50 - 10.76 | 18.4 | 1.9 | 0.30 | 6 | 196 | 784 | S/6706 | 399 816 |
| 12.0 | 11.37 - 11.62 | 25.0 | 2.3 | 0.40 | 6 | 343 | 1961 | S/6713 | 399 817 |
| 13.0 | 12.38 - 12.64 | 25.0 | 2.3 | 0.40 | 6 | 343 | 2453 | S/6829 | 399 819 |
| 14.0 | 13.40 - 13.65 | 28.4 | 2.3 | 0.40 | 6 | 245 | 1961 | S/6825 | 399 820 |
| 15.0 | 14.43 - 14.68 | 28.4 | 2.3 | 0.40 | 6 | 245 | 1961 | S/6714 | 399 821 |
| 16.0 | 15.28 - 15.53 | 28.2 | 2.3 | 0.40 | 6 | 245 | 1961 | S/6826 | 399 822 |
| 17.0 | 16.42 - 16.68 | 28.4 | 2.3 | 0.40 | 6 | 343 | 1470 | S/6715 | 399 823 |
| 18.0 | 17.34 - 17.62 | 36.8 | 3.0 | 0.40 | 9 | 226 | 1961 | S/6827 | 399 824 |
| 19.0 | 18.40 - 18.69 | 36.6 | 3.0 | 0.40 | 9 | 147 | 2453 | S/6828 | 399 825 |
| 20.0 | 19.30 - 19.63 | 36.8 | 3.0 | 0.40 | 9 | 265 | 2941 | S/6716 | 399 826 |
| 21.0 | 20.33 - 20.61 | 37.0 | 3.0 | 0.40 | 9 | 392 | 2941 | S/6830 | 399 827 |
| 22.0 | 21.37 - 21.65 | 36.8 | 3.0 | 0.40 | 9 | 451 | 1961 | S/6719 | 399 828 |
| 23.0 | 22.34 - 22.62 | 38.1 | 2.9 | 0.45 | 9 | - / - ² | - / - ² | S/6831 | 399 829 |
| 24.0 | 23.33 - 23.66 | 41.3 | 3.2 | 0.50 | 9 | - / - ² | - / - ² | S/6832 | - / - |
| 25.0 | 24.30 - 24.63 | 41.5 | 3.2 | 0.50 | 9 | 343 | 2453 | S/6717 | - / - |

* The tolerance on the shaft Ø up to and including 16mm is ± 0.05mm and above 16mm is ± 0.1mm.

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

² Push on and pull off forces are available on request.

We reserve the right to amend specifications at any time.



for imperial round shafts
standard uncapped

Material

- **Stainless steel**
self colour

| Shaft-Ø | Internal-Ø | External-Ø | Height | Material thickness | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|------------|-----------------|------------------|------------------|--------------------|----------------|--------------------|-----------------------------|-----------------|-----------------|
| d* inch | d1 inch | D ±0.008 inch | H ±0.008 inch | s inch | | N | N | | |
| 1/16 | 0.0485 - 0.0575 | 0.382 | 0.050 | 0.008 | 4 | 59 | 196 | S/6218 | 399 801 |
| 3/32 | 0.0795 - 0.0885 | 0.382 | 0.050 | 0.008 | 4 | 49 | 196 | S/5883 | 399 803 |
| 1/8 | 0.1095 - 0.1185 | 0.382 | 0.050 | 0.008 | 4 | 88 | 196 | S/5897 | 399 805 |
| 3/16 | 0.1695 - 0.1785 | 0.452 | 0.050 | 0.008 | 6 | 59 | 392 | S/5920 | 399 807 |
| 1/4 | 0.2295 - 0.2395 | 0.602 | 0.050 | 0.010 | 6 | 215 | 588 | S/5873 | 399 810 |
| 9/32 | 0.2605 - 0.2705 | 0.605 | 0.050 | 0.010 | 6 | 215 | 588 | S/6326 | - / - |
| 5/16 | 0.2915 - 0.3015 | 0.605 | 0.050 | 0.010 | 6 | 215 | 588 | S/5821 | - / - |
| 11/32 | 0.3235 - 0.3335 | 0.732 | 0.076 | 0.012 | 6 | 167 | 981 | S/6332 | - / - |
| 3/8 | 0.3545 - 0.3645 | 0.726 | 0.076 | 0.012 | 6 | 167 | 784 | S/6020 | 399 814 |
| 7/16 | 0.4175 - 0.4275 | 0.983 | 0.092 | 0.016 | 6 | - / - ² | - / - ² | S/6216 | - / - |
| 1/2 | 0.4765 - 0.4865 | 0.990 | 0.092 | 0.016 | 6 | 343 | 1961 | S/6143 | 399 818 |
| 5/8 | 0.6005 - 0.6115 | 0.983 | 0.092 | 0.016 | 6 | - / - ² | - / - ² | S/6185 | - / - |
| 3/4 | 0.7245 - 0.7355 | 1.440 | 0.119 | 0.016 | 9 | 157 | 2453 | S/6322 | - / - |
| 7/8 | 0.8495 - 0.8605 | 1.500 | 0.115 | 0.018 | 9 | - / - ² | - / - ² | S/6328 | - / - |
| 1 | 0.9735 - 0.9865 | 1.625 | 0.125 | 0.020 | 9 | - / - ² | - / - ² | S/6329 | - / - |

* The tolerance on the shaft Ø up to and including 5/8" is ± 0.002" and above 5/8" is ± 0.004".

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

² Push on and pull off forces are available on request.

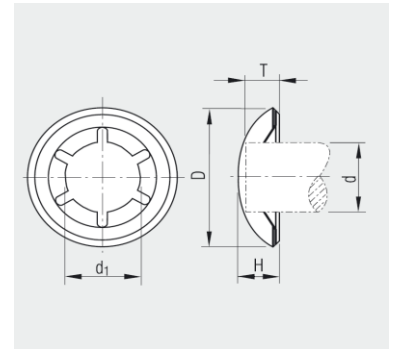
We reserve the right to amend specifications at any time.

for metric round shafts
with dome cap

Material

■ **Spring steel**
bronze varnish finish

■ **Stainless steel cap**
self colour



| Shaft-Ø | Internal-Ø | External-Ø | Height | Insertion depth | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|----------|---------------|--------------|--------------|-----------------|----------------|---------------|-----------------------------|-----------------|-----------------|
| d* mm | d1 mm | D ±0.2 mm | H ±0.3 mm | T max mm | | N | N | | |
| 1.5 | 1.23 - 1.46 | 10.6 | 3.0 | 2.5 | 4 | 39 | 196 | BV/7204/01S | - / - |
| 2.0 | 1.61 - 1.84 | 10.6 | 3.0 | 2.5 | 4 | 69 | 196 | BV/6662/01S | 399 352 |
| 3.0 | 2.58 - 2.81 | 10.6 | 3.0 | 2.5 | 4 | 108 | 196 | BV/6663/01S | 399 354 |
| 4.0 | 3.57 - 3.80 | 12.3 | 3.8 | 3.0 | 5 | 69 | 392 | BV/6665/02S | 399 356 |
| 5.0 | 4.51 - 4.74 | 12.3 | 3.8 | 3.0 | 6 | 118 | 392 | BV/6664/02S | 399 358 |
| 6.0 | 5.45 - 5.70 | 16.1 | 5.1 | 4.0 | 6 | 147 | 785 | BV/6666/03S | 399 359 |
| 7.0 | 6.46 - 6.72 | 16.1 | 5.1 | 4.0 | 6 | 186 | 785 | BV/6670/03S | 399 361 |
| 8.0 | 7.40 - 7.66 | 16.1 | 5.1 | 4.0 | 6 | 216 | 785 | BV/6671/03S | 399 362 |
| 9.0 | 8.50 - 8.75 | 19.7 | 5.8 | 4.5 | 6 | 206 | 981 | BV/6674/04S | 399 363 |
| 10.0 | 9.49 - 9.74 | 19.7 | 5.8 | 4.5 | 6 | 284 | 981 | BV/6668/04S | 399 365 |
| 11.0 | 10.50 - 10.76 | 19.7 | 5.8 | 4.5 | 6 | 412 | 981 | BV/6673/04S | 399 366 |
| 12.0 | 11.37 - 11.62 | 26.0 | 7.5 | 6.0 | 6 | 441 | 2453 | BV/6675/05S | 399 367 |
| 13.0 | 12.38 - 12.64 | 26.0 | 7.5 | 6.0 | 6 | 343 | 2453 | BV/6885/05S | 399 369 |
| 14.0 | 13.40 - 13.65 | 29.4 | 9.0 | 7.0 | 6 | 245 | 2453 | BV/6881/06S | 399 370 |
| 15.0 | 14.43 - 14.68 | 29.4 | 9.0 | 7.0 | 6 | 334 | 2453 | BV/6676/06S | 399 371 |
| 16.0 | 15.28 - 15.53 | 29.4 | 9.0 | 7.0 | 6 | 549 | 2453 | BV/6882/06S | 399 372 |
| 17.0 | 16.42 - 16.68 | 29.4 | 9.0 | 7.0 | 6 | 481 | 2453 | BV/6677/06S | 399 373 |
| 18.0 | 17.34 - 17.62 | 38.2 | 11.7 | 8.7 | 9 | 226 | 3434 | BV/6883/07S | 399 374 |
| 19.0 | 18.40 - 18.69 | 38.2 | 11.7 | 8.7 | 9 | 157 | 3777 | BV/6884/07S | 399 375 |
| 20.0 | 19.30 - 19.63 | 38.2 | 11.7 | 8.7 | 9 | 265 | 3434 | BV/6678/07S | 399 376 |
| 21.0 | 20.33 - 20.61 | 38.2 | 11.7 | 8.7 | 9 | 206 | 3777 | BV/6886/07S | 399 377 |
| 22.0 | 21.37 - 21.65 | 38.2 | 11.7 | 8.7 | 9 | 540 | 3434 | BV/6889/07S | 399 378 |
| 23.0 | 22.34 - 22.62 | 39.8 | 13.0 | 9.5 | 9 | 697 | 3434 | BV/6887/08S | 399 379 |
| 24.0 | 23.33 - 23.66 | 43.0 | 12.5 | 9.5 | 9 | 451 | 3777 | BV/6888/09S | 399 380 |
| 25.0 | 24.30 - 24.63 | 43.0 | 12.5 | 9.5 | 9 | 559 | 3777 | BV/6679/09S | 399 381 |

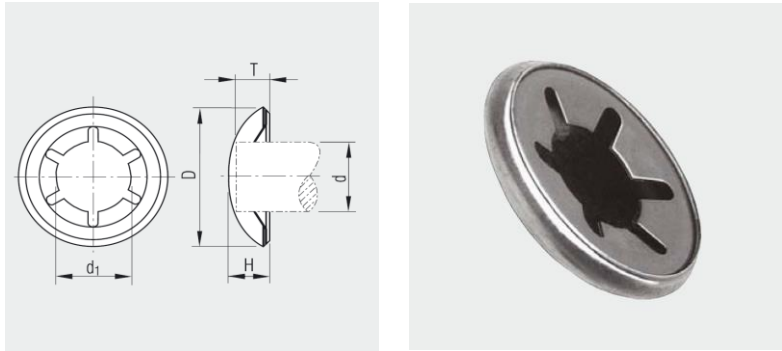
* The tolerance on the shaft Ø up to and including 16mm is ± 0.05mm and above 16mm is ± 0.1mm.

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

Material thickness for a capped Starlock® is the same as the uncapped version.

Other surface finishes are available e.g. DELTA Tone + Seal (for shaft diameters from 12.0 mm) depending on quantity on request.

We reserve the right to amend specifications at any time.



for imperial round shafts
with dome cap

Material

■ **Spring steel**
blue varnish finish

■ **Stainless steel cap**
self colour

| Shaft-Ø | Internal-Ø | External-Ø | Height | Insertion depth | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|---------|-----------------|------------|----------|-----------------|----------------|---------------|-----------------------------|-----------------|-----------------|
| d* | d1 | D ±0.008 | H ±0.012 | T max | | N | N | | |
| inch | inch | inch | inch | inch | | | | | |
| 1/16 | 0.0485 - 0.0575 | 0.418 | 0.120 | 0.100 | 4 | 39 | 196 | BV/6232/01S | 399 351 |
| 3/32 | 0.0795 - 0.0885 | 0.418 | 0.120 | 0.100 | 4 | 49 | 196 | BV/6221/01S | 399 353 |
| 1/8 | 0.1095 - 0.1185 | 0.418 | 0.120 | 0.100 | 4 | 118 | 196 | BV/6222/01S | 399 355 |
| 5/32 | 0.1405 - 0.1495 | 0.485 | 0.148 | 0.120 | 5 | 69 | 392 | BV/6223/02S | - / - |
| 3/16 | 0.1695 - 0.1785 | 0.485 | 0.148 | 0.120 | 6 | 59 | 392 | BV/6224/02S | 399 357 |
| 7/32 | 0.1975 - 0.2065 | 0.485 | 0.148 | 0.120 | 6 | 128 | 392 | BV/6235/02S | - / - |
| 1/4 | 0.2295 - 0.2395 | 0.635 | 0.200 | 0.160 | 6 | 108 | 785 | BV/6225/03S | 399 360 |
| 9/32 | 0.2605 - 0.2705 | 0.635 | 0.200 | 0.160 | 6 | 196 | 785 | BV/6236/03S | - / - |
| 5/16 | 0.2915 - 0.3015 | 0.635 | 0.200 | 0.160 | 6 | 216 | 785 | BV/6226/03S | - / - |
| 11/32 | 0.3235 - 0.3335 | 0.775 | 0.230 | 0.177 | 6 | 167 | 981 | BV/6238/04S | - / - |
| 3/8 | 0.3545 - 0.3645 | 0.775 | 0.230 | 0.177 | 6 | 206 | 981 | BV/6227/04S | 399 364 |
| 13/32 | 0.3865 - 0.3965 | 0.775 | 0.230 | 0.177 | 6 | 167 | 981 | BV/6239/04S | - / - |
| 7/16 | 0.4175 - 0.4275 | 1.025 | 0.295 | 0.236 | 6 | 147 | 2453 | BV/6228/05S | - / - |
| 1/2 | 0.4765 - 0.4865 | 1.025 | 0.295 | 0.236 | 6 | 343 | 2453 | BV/6229/05S | 399 368 |
| 17/32 | 0.5075 - 0.5175 | 1.025 | 0.295 | 0.236 | 6 | 589 | 2453 | BV/6237/05S | - / - |
| 5/8 | 0.6005 - 0.6115 | 1.025 | 0.295 | 0.236 | 6 | 598 | 2453 | BV/6231/05S | - / - |
| 3/4 | 0.7245 - 0.7355 | 1.505 | 0.460 | 0.343 | 9 | 157 | 3434 | BV/6234/07S | - / - |
| 7/8 | 0.8495 - 0.8605 | 1.565 | 0.510 | 0.375 | 9 | 451 | 3434 | BV/6335/08S | - / - |
| 1 | 0.9735 - 0.9865 | 1.695 | 0.490 | 0.375 | 9 | 706 | 3777 | BV/6334/09S | - / - |

* The tolerance on the shaft Ø up to and including 5/8" is ± 0.002" and above 5/8" is ± 0.004".

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

Material thickness for a capped Starlock® is the same as the uncapped version.

Other surface finishes are available e.g. DELTA Tone + Seal (for shaft diameters from 1/2 inch) depending on quantity on request.

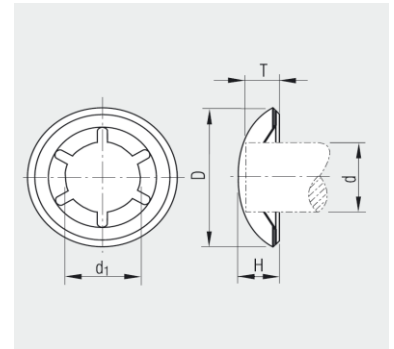
We reserve the right to amend specifications at any time.

for metric round shafts
with dome cap

Material

■ **Spring steel**
mechanical zinc finish

■ **Stainless steel cap**
self colour



| Shaft-Ø | Internal-Ø | External-Ø | Height | Insertion depth | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|----------|---------------|--------------|--------------|-----------------|----------------|---------------|-----------------------------|-----------------|-----------------|
| d* mm | d1 mm | D ±0.2 mm | H ±0.3 mm | T max mm | | N | N | | |
| 1.5 | 1.23 - 1.46 | 10.6 | 3.0 | 2.5 | 4 | 39 | 196 | DT/7204/01S | - / - |
| 2.0 | 1.61 - 1.84 | 10.6 | 3.0 | 2.5 | 4 | 69 | 196 | DT/6662/01S | 399 452 |
| 3.0 | 2.58 - 2.81 | 10.6 | 3.0 | 2.5 | 4 | 108 | 196 | DT/6663/01S | 399 454 |
| 4.0 | 3.57 - 3.80 | 12.3 | 3.8 | 3.0 | 5 | 69 | 392 | DT/6665/02S | 399 456 |
| 5.0 | 4.51 - 4.74 | 12.3 | 3.8 | 3.0 | 6 | 118 | 392 | DT/6664/02S | 399 458 |
| 6.0 | 5.45 - 5.70 | 16.1 | 5.1 | 4.0 | 6 | 147 | 785 | DT/6666/03S | 399 459 |
| 7.0 | 6.46 - 6.72 | 16.1 | 5.1 | 4.0 | 6 | 186 | 785 | DT/6670/03S | 399 461 |
| 8.0 | 7.40 - 7.66 | 16.1 | 5.1 | 4.0 | 6 | 216 | 785 | DT/6671/03S | 399 462 |
| 9.0 | 8.50 - 8.75 | 19.7 | 5.8 | 4.5 | 6 | 206 | 981 | DT/6674/04S | 399 463 |
| 10.0 | 9.49 - 9.74 | 19.7 | 5.8 | 4.5 | 6 | 284 | 981 | DT/6668/04S | 399 465 |
| 11.0 | 10.50 - 10.76 | 19.7 | 5.8 | 4.5 | 6 | 412 | 981 | DT/6673/04S | 399 466 |
| 12.0 | 11.37 - 11.62 | 26.0 | 7.5 | 6.0 | 6 | 441 | 2453 | DT/6675/05S | 399 467 |
| 13.0 | 12.38 - 12.64 | 26.0 | 7.5 | 6.0 | 6 | 343 | 2453 | DT/6885/05S | 399 469 |
| 14.0 | 13.40 - 13.65 | 29.4 | 9.0 | 7.0 | 6 | 245 | 2453 | DT/6881/06S | 399 470 |
| 15.0 | 14.43 - 14.68 | 29.4 | 9.0 | 7.0 | 6 | 334 | 2453 | DT/6676/06S | 399 471 |
| 16.0 | 15.28 - 15.53 | 29.4 | 9.0 | 7.0 | 6 | 549 | 2453 | DT/6882/06S | 399 472 |
| 17.0 | 16.42 - 16.68 | 29.4 | 9.0 | 7.0 | 6 | 481 | 2453 | DT/6677/06S | 399 473 |
| 18.0 | 17.34 - 17.62 | 38.2 | 11.7 | 8.7 | 9 | 226 | 3434 | DT/6883/07S | 399 474 |
| 19.0 | 18.40 - 18.69 | 38.2 | 11.7 | 8.7 | 9 | 157 | 3777 | DT/6884/07S | 399 475 |
| 20.0 | 19.30 - 19.63 | 38.2 | 11.7 | 8.7 | 9 | 265 | 3434 | DT/6678/07S | 399 476 |
| 21.0 | 20.33 - 20.61 | 38.2 | 11.7 | 8.7 | 9 | 206 | 3777 | DT/6886/07S | 399 477 |
| 22.0 | 21.37 - 21.65 | 38.2 | 11.7 | 8.7 | 9 | 540 | 3434 | DT/6889/07S | 399 478 |
| 23.0 | 22.34 - 22.62 | 39.8 | 13.0 | 9.5 | 9 | 697 | 3434 | DT/6887/08S | 399 479 |
| 24.0 | 23.33 - 23.66 | 43.0 | 12.5 | 9.5 | 9 | 451 | 3777 | DT/6888/09S | 399 480 |
| 25.0 | 24.30 - 24.63 | 43.0 | 12.5 | 9.5 | 9 | 559 | 3777 | DT/6679/09S | 399 481 |

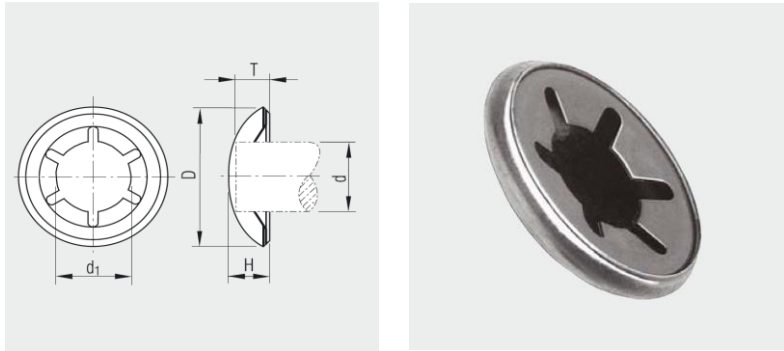
* The tolerance on the shaft Ø up to and including 16mm is ± 0.05mm and above 16mm is ± 0.1mm.

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

Material thickness for a capped Starlock® is the same as the uncapped version.

Other surface finishes are available e.g. DELTA Tone + Seal (for shaft diameters from 12.0 mm) depending on quantity on request.

We reserve the right to amend specifications at any time.



**for imperial round shafts
with dome cap**

Material

- **Spring steel**
mechanical zinc finish
- **Stainless steel cap**
self colour

| Shaft-Ø | Internal-Ø | External-Ø | Height | Insertion depth | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|---------|-----------------|------------|----------|-----------------|----------------|---------------|-----------------------------|-----------------|-----------------|
| d* | d1 | D ±0.008 | H ±0.012 | T max | | N | N | | |
| inch | inch | inch | inch | inch | | | | | |
| 1/16 | 0.0485 - 0.0575 | 0.418 | 0.120 | 0.100 | 4 | 39 | 196 | DT/6232/01S | 399 451 |
| 3/32 | 0.0795 - 0.0885 | 0.418 | 0.120 | 0.100 | 4 | 49 | 196 | DT/6221/01S | 399 453 |
| 1/8 | 0.1095 - 0.1185 | 0.418 | 0.120 | 0.100 | 4 | 118 | 196 | DT/6222/01S | 399 455 |
| 5/32 | 0.1405 - 0.1495 | 0.485 | 0.148 | 0.120 | 5 | 69 | 392 | DT/6223/02S | - / - |
| 3/16 | 0.1695 - 0.1785 | 0.485 | 0.148 | 0.120 | 6 | 59 | 392 | DT/6224/02S | 399 457 |
| 7/32 | 0.1975 - 0.2065 | 0.485 | 0.148 | 0.120 | 6 | 128 | 392 | DT/6235/02S | - / - |
| 1/4 | 0.2295 - 0.2395 | 0.635 | 0.200 | 0.160 | 6 | 108 | 785 | DT/6225/03S | 399 460 |
| 9/32 | 0.2605 - 0.2705 | 0.635 | 0.200 | 0.160 | 6 | 196 | 785 | DT/6236/03S | - / - |
| 5/16 | 0.2915 - 0.3015 | 0.635 | 0.200 | 0.160 | 6 | 216 | 785 | DT/6226/03S | - / - |
| 11/32 | 0.3235 - 0.3335 | 0.775 | 0.230 | 0.177 | 6 | 167 | 981 | DT/6238/04S | - / - |
| 3/8 | 0.3545 - 0.3645 | 0.775 | 0.230 | 0.177 | 6 | 206 | 981 | DT/6227/04S | 399 464 |
| 13/32 | 0.3865 - 0.3965 | 0.775 | 0.230 | 0.177 | 6 | 167 | 981 | DT/6239/04S | - / - |
| 7/16 | 0.4175 - 0.4275 | 1.025 | 0.295 | 0.236 | 6 | 147 | 2453 | DT/6228/05S | - / - |
| 1/2 | 0.4765 - 0.4865 | 1.025 | 0.295 | 0.236 | 6 | 343 | 2453 | DT/6229/05S | 399 468 |
| 17/32 | 0.5075 - 0.5175 | 1.025 | 0.295 | 0.236 | 6 | 589 | 2453 | DT/6237/05S | - / - |
| 5/8 | 0.6005 - 0.6115 | 1.025 | 0.295 | 0.236 | 6 | 598 | 2453 | DT/6231/05S | - / - |
| 3/4 | 0.7245 - 0.7355 | 1.505 | 0.460 | 0.343 | 9 | 157 | 3434 | DT/6234/07S | - / - |
| 7/8 | 0.8495 - 0.8605 | 1.565 | 0.510 | 0.375 | 9 | 451 | 3434 | DT/6335/08S | - / - |
| 1 | 0.9735 - 0.9865 | 1.695 | 0.490 | 0.375 | 9 | 706 | 3777 | DT/6334/09S | - / - |

* The tolerance on the shaft Ø up to and including 5/8" is ± 0.002" and above 5/8" is ± 0.004".

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

Material thickness for a capped Starlock® is the same as the uncapped version.

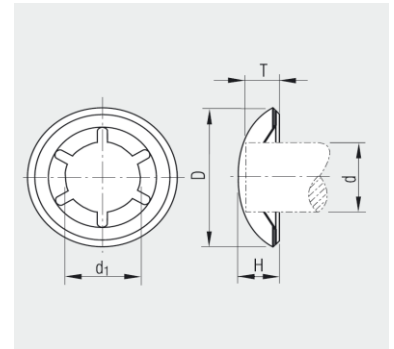
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We reserve the right to amend specifications at any time.

for metric round shafts
with dome cap

Material

■ **Stainless steel**
self colour



| Shaft-Ø | Internal-Ø | External-Ø | Height | Insertion depth | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|----------|---------------|--------------|--------------|-----------------|----------------|--------------------|-----------------------------|-----------------|-----------------|
| d* mm | d1 mm | D ±0.2 mm | H ±0.3 mm | T max mm | | N | N | | |
| 1.5 | 1.23 - 1.46 | 10.6 | 3.0 | 2.5 | 4 | 39 | 196 | S/7204/01S | - / - |
| 2.0 | 1.61 - 1.84 | 10.6 | 3.0 | 2.5 | 4 | 69 | 196 | S/6662/01S | 399 952 |
| 3.0 | 2.58 - 2.81 | 10.6 | 3.0 | 2.5 | 4 | 108 | 196 | S/6663/01S | 399 954 |
| 4.0 | 3.57 - 3.80 | 12.3 | 3.8 | 3.0 | 5 | 69 | 294 | S/6665/02S | 399 956 |
| 5.0 | 4.51 - 4.74 | 12.3 | 3.8 | 3.0 | 6 | 118 | 294 | S/6664/02S | 399 958 |
| 6.0 | 5.45 - 5.70 | 16.1 | 5.1 | 4.0 | 6 | 147 | 588 | S/6666/03S | 399 959 |
| 7.0 | 6.46 - 6.72 | 16.1 | 5.1 | 4.0 | 6 | 186 | 588 | S/6670/03S | 399 961 |
| 8.0 | 7.40 - 7.66 | 16.1 | 5.1 | 4.0 | 6 | 216 | 588 | S/6671/03S | 399 962 |
| 9.0 | 8.50 - 8.75 | 19.7 | 5.8 | 4.5 | 6 | 196 | 784 | S/6674/04S | 399 963 |
| 10.0 | 9.49 - 9.74 | 19.7 | 5.8 | 4.5 | 6 | 196 | 784 | S/6668/04S | 399 965 |
| 11.0 | 10.50 - 10.76 | 19.7 | 5.8 | 4.5 | 6 | 196 | 784 | S/6673/04S | 399 966 |
| 12.0 | 11.37 - 11.62 | 26.0 | 7.5 | 6.0 | 6 | 343 | 1961 | S/6675/05S | 399 967 |
| 13.0 | 12.38 - 12.64 | 26.0 | 7.5 | 6.0 | 6 | 343 | 2453 | S/6885/05S | 399 969 |
| 14.0 | 13.40 - 13.65 | 29.4 | 9.0 | 7.0 | 6 | 245 | 1961 | S/6881/06S | 399 970 |
| 15.0 | 14.43 - 14.68 | 29.4 | 9.0 | 7.0 | 6 | 245 | 1961 | S/6676/06S | 399 971 |
| 16.0 | 15.28 - 15.53 | 29.4 | 9.0 | 7.0 | 6 | 245 | 1961 | S/6882/06S | 399 972 |
| 17.0 | 16.42 - 16.68 | 29.4 | 9.0 | 7.0 | 6 | 343 | 1470 | S/6677/06S | 399 973 |
| 18.0 | 17.34 - 17.62 | 38.2 | 11.7 | 8.7 | 9 | 226 | 1961 | S/6883/07S | 399 974 |
| 19.0 | 18.40 - 18.69 | 38.2 | 11.7 | 8.7 | 9 | 147 | 2453 | S/6884/07S | 399 975 |
| 20.0 | 19.30 - 19.63 | 38.2 | 11.7 | 8.7 | 9 | 265 | 2941 | S/6678/07S | 399 976 |
| 21.0 | 20.33 - 20.61 | 38.2 | 11.7 | 8.7 | 9 | 392 | 2941 | S/6886/07S | 399 977 |
| 22.0 | 21.37 - 21.65 | 38.2 | 11.7 | 8.7 | 9 | 451 | 1961 | S/6889/07S | 399 978 |
| 23.0 | 22.34 - 22.62 | 39.8 | 13.0 | 9.5 | 9 | - / - ² | - / - ² | S/6887/08S | 399 979 |
| 24.0 | 23.33 - 23.66 | 43.0 | 12.5 | 9.5 | 9 | - / - ² | - / - ² | S/6888/09S | - / - |
| 25.0 | 24.30 - 24.63 | 43.0 | 12.5 | 9.5 | 9 | 343 | 2453 | S/6679/09S | - / - |

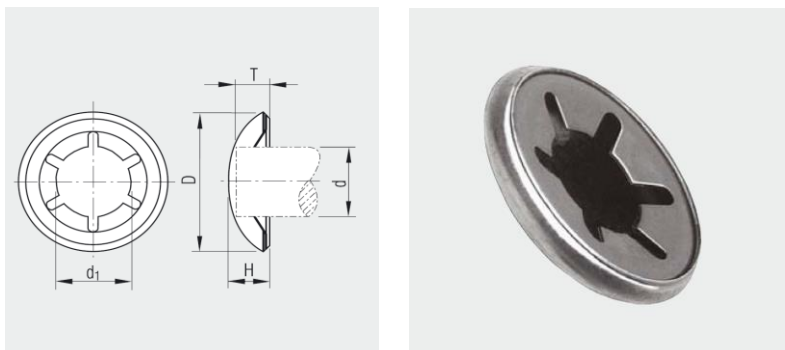
* The tolerance on the shaft Ø up to and including 16mm is ± 0.05mm and above 16mm is ± 0.1mm.

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

² Push on and pull off forces are available on request.

Material thickness for a capped Starlock® is the same as the uncapped version.

We reserve the right to amend specifications at any time.



for imperial round shafts
with dome cap

Material

- Stainless steel self colour

| Shaft-Ø | Internal-Ø | External-Ø | Height | Insertion depth | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|---------|-----------------|------------|----------|-----------------|----------------|--------------------|-----------------------------|-----------------|-----------------|
| d* | d1 | D ±0.008 | H ±0.012 | T max | | N | N | | |
| inch | inch | inch | inch | inch | | | | | |
| 1/16 | 0.0485 - 0.0575 | 0.418 | 0.120 | 0.100 | 4 | 59 | 196 | S/6232/01S | 399 951 |
| 3/32 | 0.0795 - 0.0885 | 0.418 | 0.120 | 0.100 | 4 | 49 | 196 | S/6221/01S | 399 953 |
| 1/8 | 0.1095 - 0.1185 | 0.418 | 0.120 | 0.100 | 4 | 88 | 196 | S/6222/01S | 399 955 |
| 5/32 | 0.1405 - 0.1495 | 0.485 | 0.148 | 0.120 | 5 | 69 | 392 | S/6223/02S | - / - |
| 3/16 | 0.1695 - 0.1785 | 0.485 | 0.148 | 0.120 | 6 | 59 | 392 | S/6224/02S | 399 957 |
| 7/32 | 0.1975 - 0.2065 | 0.485 | 0.148 | 0.120 | 6 | 128 | 392 | S/6235/02S | - / - |
| 1/4 | 0.2295 - 0.2395 | 0.635 | 0.200 | 0.160 | 6 | 215 | 588 | S/6225/03S | 399 960 |
| 9/32 | 0.2605 - 0.2705 | 0.635 | 0.200 | 0.160 | 6 | 215 | 588 | S/6236/03S | - / - |
| 5/16 | 0.2915 - 0.3015 | 0.635 | 0.200 | 0.160 | 6 | 215 | 588 | S/6226/03S | - / - |
| 11/32 | 0.3235 - 0.3335 | 0.775 | 0.230 | 0.177 | 6 | 167 | 981 | S/6238/04S | - / - |
| 3/8 | 0.3545 - 0.3645 | 0.775 | 0.230 | 0.177 | 6 | 167 | 784 | S/6227/04S | 399 964 |
| 13/32 | 0.3865 - 0.3965 | 0.775 | 0.230 | 0.177 | 6 | 167 | 981 | S/6239/04S | - / - |
| 7/16 | 0.4175 - 0.4275 | 1.025 | 0.295 | 0.236 | 6 | - / - ² | - / - ² | S/6228/05S | - / - |
| 1/2 | 0.4765 - 0.4865 | 1.025 | 0.295 | 0.236 | 6 | 343 | 1961 | S/6229/05S | 399 968 |
| 17/32 | 0.5075 - 0.5175 | 1.025 | 0.295 | 0.236 | 6 | 589 | 2453 | S/6237/05S | - / - |
| 5/8 | 0.6005 - 0.6115 | 1.025 | 0.295 | 0.236 | 6 | - / - ² | - / - ² | S/6231/05S | - / - |
| 3/4 | 0.7245 - 0.7355 | 1.505 | 0.460 | 0.343 | 9 | 157 | 2453 | S/6234/07S | - / - |
| 7/8 | 0.8495 - 0.8605 | 1.565 | 0.510 | 0.375 | 9 | - / - ² | - / - ² | S/6335/08S | - / - |
| 1 | 0.9735 - 0.9865 | 1.695 | 0.490 | 0.375 | 9 | - / - ² | - / - ² | S/6334/09S | - / - |

* The tolerance on the shaft Ø up to and including 5/8" is ± 0.002" and above 5/8" is ± 0.004".

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

² Push on and pull off forces are available on request.

Material thickness for a capped Starlock® is the same as the uncapped version.

We reserve the right to amend specifications at any time.

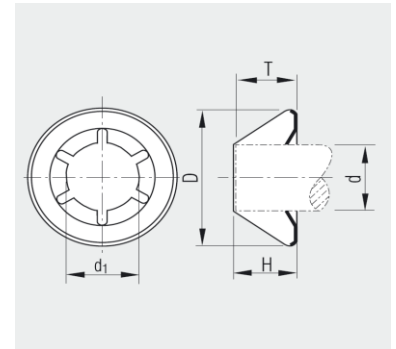


for metric round shafts
with deep cap

Material

■ **Spring steel**
bronze varnish finish

■ **Stainless steel cap**
self colour



| Shaft-Ø | Internal-Ø | External-Ø | Height | Insertion depth | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|----------|---------------|--------------|--------------|-----------------|----------------|---------------|-----------------------------|-----------------|----------------------|
| d* mm | d1 mm | D ±0.2 mm | H ±0.3 mm | T max mm | | N | N | | |
| 1.5 | 1.23 - 1.46 | 10.6 | 4.0 | 3.4 | 4 | 39 | 196 | BV/7204/31S | - / - ² |
| 2.0 | 1.61 - 1.84 | 10.6 | 4.0 | 3.4 | 4 | 69 | 196 | BV/6662/31S | - / - ² |
| 3.0 | 2.58 - 2.81 | 10.6 | 4.0 | 3.4 | 4 | 108 | 196 | BV/6663/31S | 399 650 ² |
| 4.0 | 3.57 - 3.80 | 12.4 | 4.5 | 4.0 | 5 | 69 | 392 | BV/6665/32S | 399 677 ² |
| 5.0 | 4.51 - 4.74 | 12.4 | 4.5 | 4.0 | 6 | 118 | 392 | BV/6664/32S | 399 688 ² |
| 6.0 | 5.45 - 5.70 | 16.3 | 5.0 | 4.5 | 6 | 147 | 785 | BV/6666/33S | 399 689 ² |
| 7.0 | 6.46 - 6.72 | 16.3 | 5.0 | 4.5 | 6 | 186 | 785 | BV/6670/33S | - / - ² |
| 8.0 | 7.40 - 7.66 | 16.3 | 5.0 | 4.5 | 6 | 216 | 785 | BV/6671/33S | 399 692 ² |
| 9.0 | 8.50 - 8.75 | 19.8 | 6.0 | 5.5 | 6 | 206 | 981 | BV/6674/34S | - / - ² |
| 10.0 | 9.49 - 9.74 | 19.8 | 6.0 | 5.5 | 6 | 284 | 981 | BV/6668/34S | 399 695 ² |
| 11.0 | 10.50 - 10.76 | 19.8 | 6.0 | 5.5 | 6 | 412 | 981 | BV/6673/34S | - / - ² |
| 12.0 | 11.37 - 11.62 | 26.0 | 7.2 | 6.8 | 6 | 441 | 2453 | BV/6675/35S | - / - ² |
| 13.0 | 12.38 - 12.64 | 26.0 | 7.2 | 6.8 | 6 | 343 | 2453 | BV/6885/35S | - / - ² |

* The tolerance on the shaft Ø up to and including 16mm is ± 0.05mm and above 16mm is ± 0.1mm.

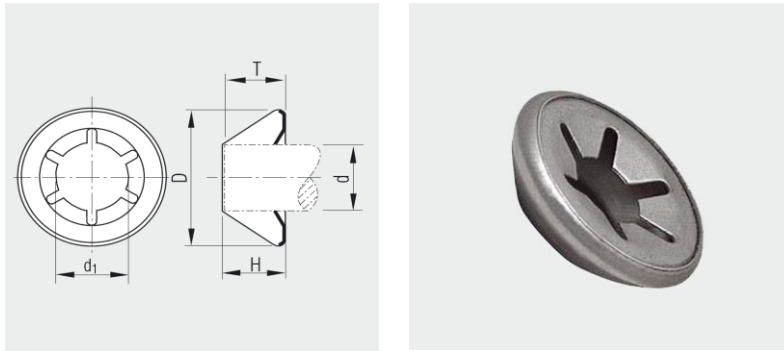
¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

² Parts also available from stock with a spring steel Starlock® in mechanical zinc finish or with a stainless steel Starlock®.

Material thickness for a capped Starlock® is the same as the uncapped version.

Other surface finishes are available e.g. DELTA Tone + Seal (for shaft diameters from 12.0 mm) depending on quantity on request.

We reserve the right to amend specifications at any time.



for imperial round shafts
with deep cap

Material

■ Spring steel
blue varnish finish

■ Stainless steel cap
self colour

| Shaft-Ø | Internal-Ø | External-Ø | Height | Insertion depth | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|------------|-----------------|------------------|------------------|-----------------|----------------|---------------|-----------------------------|-----------------|--------------------|
| d* inch | d1 inch | D ±0.008 inch | H ±0.012 inch | T max inch | | N | N | | |
| 1/16 | 0.0485 - 0.0575 | 0.418 | 0.157 | 0.135 | 4 | 39 | 196 | BV/6232/31S | - / - ² |
| 3/32 | 0.0795 - 0.0885 | 0.418 | 0.157 | 0.135 | 4 | 49 | 196 | BV/6221/31S | - / - ² |
| 1/8 | 0.1095 - 0.1185 | 0.418 | 0.157 | 0.135 | 4 | 118 | 196 | BV/6222/31S | - / - ² |
| 5/32 | 0.1405 - 0.1495 | 0.488 | 0.175 | 0.160 | 5 | 69 | 392 | BV/6223/32S | - / - ² |
| 3/16 | 0.1695 - 0.1785 | 0.488 | 0.175 | 0.160 | 6 | 59 | 392 | BV/6224/32S | - / - ² |
| 7/32 | 0.1975 - 0.2065 | 0.488 | 0.175 | 0.160 | 6 | 128 | 392 | BV/6235/32S | - / - ² |
| 1/4 | 0.2295 - 0.2395 | 0.640 | 0.200 | 0.180 | 6 | 108 | 785 | BV/6225/33S | - / - ² |
| 9/32 | 0.2605 - 0.2705 | 0.640 | 0.200 | 0.180 | 6 | 196 | 785 | BV/6236/33S | - / - ² |
| 5/16 | 0.2915 - 0.3015 | 0.640 | 0.200 | 0.180 | 6 | 216 | 785 | BV/6226/33S | - / - ² |
| 11/32 | 0.3235 - 0.3335 | 0.780 | 0.235 | 0.196 | 6 | 167 | 981 | BV/6238/34S | - / - ² |
| 3/8 | 0.3545 - 0.3645 | 0.780 | 0.235 | 0.196 | 6 | 206 | 981 | BV/6227/34S | - / - ² |
| 13/32 | 0.3865 - 0.3965 | 0.780 | 0.235 | 0.196 | 6 | 167 | 981 | BV/6239/34S | - / - ² |
| 7/16 | 0.4175 - 0.4275 | 1.025 | 0.285 | 0.270 | 6 | 147 | 2453 | BV/6228/35S | - / - ² |
| 1/2 | 0.4795 - 0.4865 | 1.025 | 0.295 | 0.270 | 6 | 343 | 2453 | BV/6229/35S | - / - ² |
| 17/32 | 0.5075 - 0.5175 | 1.025 | 0.285 | 0.270 | 6 | 589 | 2453 | BV/6237/35S | - / - ² |
| 5/8 | 0.6005 - 0.6115 | 1.025 | 0.285 | 0.270 | 6 | 598 | 2453 | BV/6231/35S | - / - ² |

* The tolerance on the shaft Ø up to and including 5/8" is ± 0.002" and above 5/8" is ± 0.004".

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

² Parts also available from stock with a spring steel Starlock® in mechanical zinc finish or with a stainless steel Starlock®.

Material thickness for a capped Starlock® is the same as the uncapped version.

Other surface finishes are available e.g. DELTA Tone + Seal (for shaft diameters from 1/2 inch) depending on quantity on request.

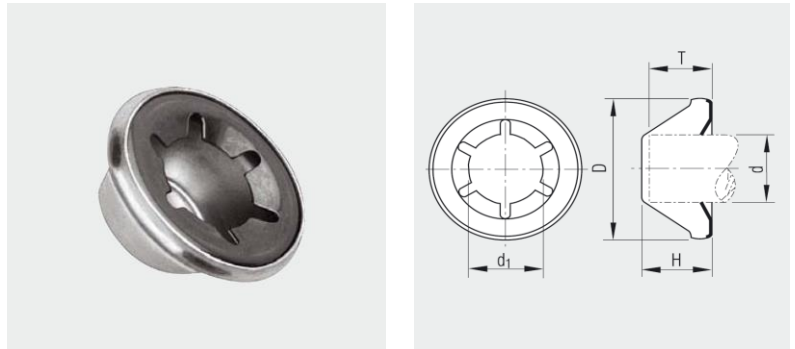
We reserve the right to amend specifications at any time.

for metric round shafts
with extra deep cap

Material

■ **Spring steel**
bronze varnish finish

■ **Steel cap**
electro plated zinc



| Shaft-Ø | Internal-Ø | External-Ø | Height | Insertion depth | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|----------|---------------|--------------|--------------|-----------------|----------------|---------------|-----------------------------|-----------------|----------------------|
| d* mm | d1 mm | D ±0.2 mm | H ±0.3 mm | T max mm | | N | N | | |
| 3.0 | 2.58 - 2.81 | 12.3 | 5.7 | 5.3 | 4 | 108 | 196 | BV/8300/42A | - / - ² |
| 4.0 | 3.57 - 3.80 | 12.3 | 5.7 | 5.3 | 5 | 69 | 392 | BV/6665/42A | 399 636 ² |
| 5.0 | 4.51 - 4.74 | 12.3 | 5.7 | 5.3 | 6 | 118 | 392 | BV/6664/42A | 399 638 ² |
| 6.0 | 5.45 - 5.70 | 16.1 | 7.2 | 6.7 | 6 | 147 | 785 | BV/6666/43A | 399 639 ² |
| 7.0 | 6.46 - 6.72 | 16.1 | 7.2 | 6.7 | 6 | 186 | 785 | BV/6670/43A | 399 641 ² |
| 8.0 | 7.40 - 7.66 | 16.1 | 7.2 | 6.7 | 6 | 216 | 785 | BV/6671/43A | 399 642 ² |
| 9.0 | 8.50 - 8.75 | 19.7 | 8.1 | 7.7 | 6 | 206 | 981 | BV/6674/44A | 399 643 ² |
| 10.0 | 9.49 - 9.74 | 19.7 | 8.1 | 7.7 | 6 | 284 | 981 | BV/6668/44A | 399 645 ² |
| 11.0 | 10.50 - 10.76 | 19.7 | 8.1 | 7.7 | 6 | 412 | 981 | BV/6673/44A | 399 646 ² |

* The tolerance on the shaft Ø up to and including 16mm is ± 0.05mm and above 16mm is ± 0.1mm.

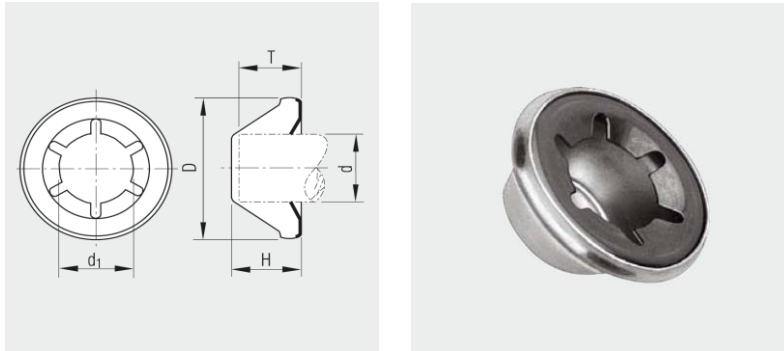
¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

² Parts also available from stock with a spring steel Starlock® in mechanical zinc finish or with a stainless steel Starlock®.

Material thickness for a capped Starlock® is the same as the uncapped version.

Other surface finishes are available e.g. DELTA Tone + Seal (for shaft diameters from 12.0 mm) depending on quantity on request.

We reserve the right to amend specifications at any time.



**for imperial round shafts
with extra deep cap**

Material

- **Spring steel**
blue varnish finish
- **Steel cap**
electro plated zinc

| Shaft-Ø | Internal-Ø | External-Ø | Height | Insertion depth | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|---------|-----------------|------------|----------|-----------------|----------------|---------------|-----------------------------|-----------------|----------------------|
| d* | d1 | D ±0.008 | H ±0.012 | T max | | N | N | | |
| inch | inch | inch | inch | inch | | | | | |
| 5/32 | 0.1405 - 0.1495 | 0.485 | 0.224 | 0.208 | 5 | 69 | 392 | BV/6223/42A | - / - ² |
| 3/16 | 0.1695 - 0.1785 | 0.485 | 0.224 | 0.208 | 6 | 59 | 392 | BV/6224/42A | - / - ² |
| 7/32 | 0.1975 - 0.2065 | 0.485 | 0.224 | 0.208 | 6 | 128 | 392 | BV/6235/42A | - / - ² |
| 1/4 | 0.2295 - 0.2395 | 0.635 | 0.283 | 0.264 | 6 | 108 | 785 | BV/6225/43A | 399 672 ² |
| 9/32 | 0.2605 - 0.2705 | 0.635 | 0.283 | 0.264 | 6 | 196 | 785 | BV/6236/43A | - / - ² |
| 5/16 | 0.2915 - 0.3015 | 0.635 | 0.283 | 0.264 | 6 | 216 | 785 | BV/6226/43A | - / - ² |
| 11/32 | 0.3235 - 0.3335 | 0.777 | 0.320 | 0.303 | 6 | 167 | 981 | BV/6238/44A | - / - ² |
| 3/8 | 0.3545 - 0.3645 | 0.777 | 0.320 | 0.303 | 6 | 206 | 981 | BV/6227/44A | - / - ² |
| 13/32 | 0.3865 - 0.3965 | 0.777 | 0.320 | 0.303 | 6 | 167 | 981 | BV/6239/44A | - / - ² |

* The tolerance on the shaft Ø up to and including 5/8" is ± 0.002" and above 5/8" is ± 0.004".

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

² Parts also available from stock with a spring steel Starlock® in mechanical zinc finish or with a stainless steel Starlock®.

Material thickness for a capped Starlock® is the same as the uncapped version.

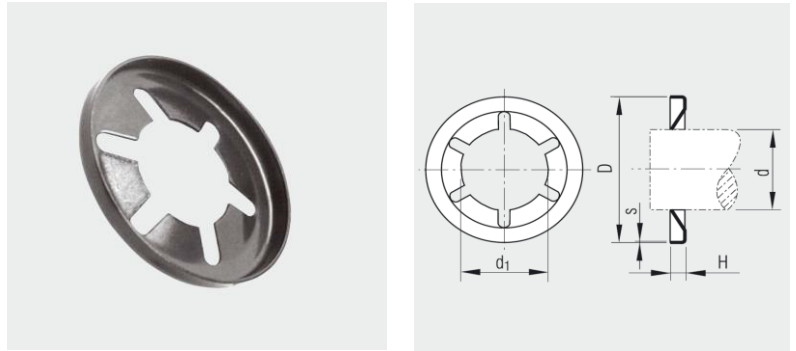
We reserve the right to amend specifications at any time.



for metric round shafts
heavy duty

Material

- **Spring steel**
bronze varnish finish



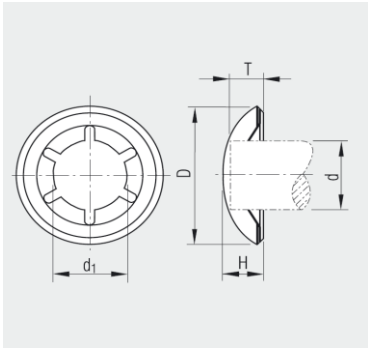
| Shaft-Ø | Internal-Ø | External-Ø | Height | Material thickness | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|----------|-------------|--------------|--------------|--------------------|----------------|---------------|-----------------------------|-----------------|----------------------|
| d* mm | d1 mm | H ±0.2 mm | H ±0.2 mm | s mm | | N | N | | |
| 4.0 | 3.57 - 3.80 | 11.5 | 1.27 | 0.4 | 5 | 245 | 1226 | BV/8059 | 399 106 ² |
| 5.0 | 4.51 - 4.74 | 11.5 | 1.27 | 0.4 | 6 | 245 | 1226 | BV/8060 | 399 108 ² |
| 6.0 | 5.33 - 5.59 | 15.3 | 1.27 | 0.4 | 6 | 392 | 1766 | BV/8061 | 399 109 ² |
| 7.0 | 6.46 - 6.72 | 15.3 | 1.27 | 0.4 | 6 | 392 | 1766 | BV/8149 | - / - ² |
| 8.0 | 7.26 - 7.42 | 15.3 | 1.27 | 0.4 | 6 | 392 | 1766 | BV/8062 | 399 112 ² |
| 10.0 | 9.49 - 9.74 | 25.0 | 2.34 | 0.4 | 6 | 245 | 2453 | BV/7074 | - / - ² |

* The tolerance on the shaft Ø up to and including 16mm is ± 0.05mm and above 16mm is ± 0.1mm.

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

² Not Standard Stock. These items will be manufactured to customer requirements.

We reserve the right to amend specifications at any time.



for metric round shafts
heavy duty with dome cap

Material

■ **Spring steel**
bronze varnish finish

■ **Stainless steel cap**
self colour

| Shaft-Ø | Internal-Ø | External-Ø | Height | Insertion depth | Number of legs | Push on force | Pull off force ¹ | B&F Part Number | GTO Part Number |
|----------|-------------|--------------|--------------|-----------------|----------------|---------------|-----------------------------|-----------------|----------------------|
| d* mm | d1 mm | D ±0.2 mm | H ±0.3 mm | T max mm | | N | N | | |
| 4.0 | 3.57 - 3.80 | 12.3 | 3.8 | 3.0 | 5 | 245 | 1226 | BV/8045/02S | 399 156 ² |
| 5.0 | 4.51 - 4.74 | 12.3 | 3.8 | 3.0 | 6 | 245 | 1226 | BV/8074/02S | 399 158 ² |
| 6.0 | 5.33 - 5.59 | 16.1 | 5.1 | 4.0 | 6 | 392 | 1766 | BV/8075/03S | 399 159 ² |
| 8.0 | 7.25 - 7.42 | 16.1 | 5.1 | 4.0 | 6 | 392 | 1766 | BV/8076/03S | 399 162 ² |

* The tolerance on the shaft Ø up to and including 16mm is ± 0.05mm and above 16mm is ± 0.1mm.

¹ The pull off forces are for guidance only and are based on tests using grade EN3B bright drawn mild steel shafts.

² Not Standard Stock. These items will be manufactured to customer requirements.

Material thickness for a capped Starlock® is the same as the uncapped version.

We reserve the right to amend specifications at any time.

SPECIAL STARLOCK®

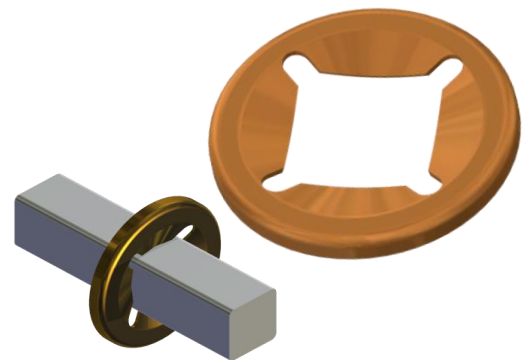
Starlock® with nylon caps

Starlock® push on fasteners can be fitted with a PA6 nylon cap, available to suit your colour sample or in the RAL colour of your choice. The caps can also be customised with your company logo, symbols or lettering on request. Minimum order quantity from 5,000 to 10,000 depending on colour and size.



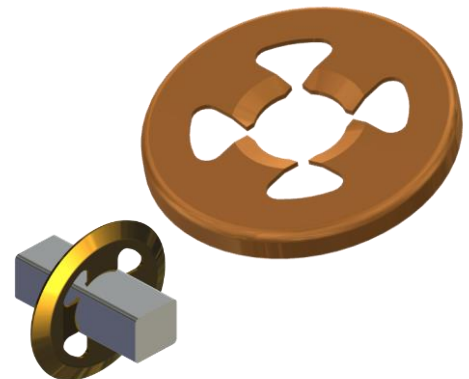
Starlock® for square shafts

Starlock® push on fasteners are also available to suit square shafts and are generally available in spring steel and many are also supplied in stainless steel. Like the majority of our range, Starlock® for square shafts can be supplied assembled with a cap to conceal the fixing and enhancing the appearance.



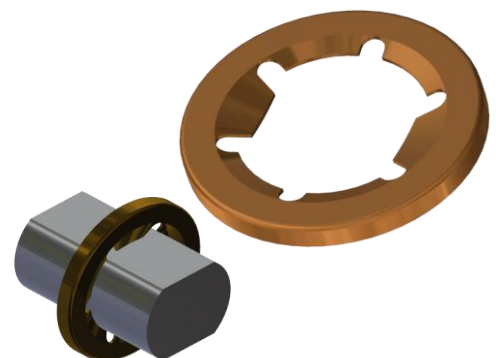
Starlock® for square shafts

Starlock® push on fasteners are available in a variety of designs to suit square shafts. Let us know the details of your application and we will advise the best style for the job.



Starlock® for double-D shafts

The double-D Starlock® push on fastener is designed to fit on a round shaft which has two parallel flats. This design is commonly used in door handle fittings but can be applied to any application where a double-D shaft is required.



SPECIAL STARLOCK®

Reversed Starlock®

A special Starlock® used where the form is reversed and the edge of the flange is turned downwards, whilst retaining rigid strength. It can serve a dual purpose on assembly, for example as a housing for a compression spring as shown.



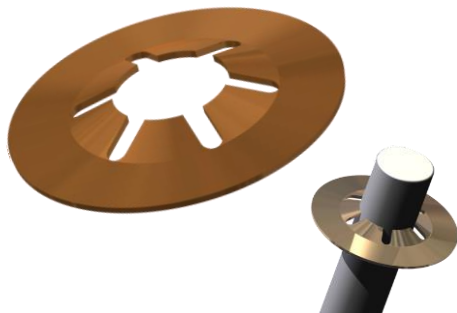
Starlock® Inlock

The Inlock fastener is an effective means of anchoring a threaded stud into a tube. The method employed for assembly is to screw two or more inlocks on to a stud and then to press this assembly into the tube leaving a threaded portion protruding. The number of inlocks used is dependent upon the load requirements, but a minimum of two, suitably spaced, must be used to align the stud with the bore of the tube.



Belleville Starlock®

The Belleville Starlock® was developed for applications where tension is required in the finished assembly. When the fastener is pressed flat, all movement and rattle is eliminated. A typical application for this type of fastener is in the assembly of numbers or letters to a car registration plate.



Flangeless Starlock®

Flangeless Starlock® fasteners are used where a greater degree of flexibility is required or where there is insufficient room for the flange. With certain fasteners assembly is possible without the use of a tool. This is a particularly attractive feature in the soft toy industry for the mounting of items such as eyes and noses. Also available as a ribbed style, which, for example, is used to hold insulation in place as the large diameter eliminates damage.



INSTALLATION TOOLS

STARLOCK® push on fasteners are quickly and easily installed using a simple hand tool fitted with a magnetic ferrule. Select the correct ferrule from the tables for each Starlock® type.



Tool
Part No.
6110

STARLOCK® without cap



| Shaft diameter | | External diameter | | Magnetic ferrule Part No. |
|----------------|-------------|-------------------|-------|---------------------------|
| mm | inch | mm | inch | |
| 1.5 - 3.0 | 1/16 - 1/8 | 9.7 | 0.380 | 6111 |
| 4.0 - 5.0 | 3/16 | 11.5 | 0.450 | 6112 |
| 6.0 - 8.0 | 1/4 - 5/16 | 15.3 | 0.600 | 6113 |
| 9.0 - 11.0 | 11/32 - 3/8 | 18.4 | 0.725 | 6114 |
| 12.0 - 13.0 | 7/16 - 5/8 | 25.0 | 0.983 | 6115 |
| 14.0 - 17.0 | - | 28.2 | - | 6400 |
| 18.0 - 23.0 | 3/4 - 7/8 | 36.5 | 1.437 | 6118 |
| 24.0 - 25.0 | 1 | 41.3 | 1.625 | 6388 |

STARLOCK® with stainless steel dome cap



| Shaft diameter | | External diameter mm / inch | Cap type | Magnetic ferrule Part No. |
|----------------|---------------|--------------------------------|----------|---------------------------|
| mm | inch | | | |
| 1.5 - 3.0 | 1/16 - 1/8 | 10.7 / 0.420 | 01S | 6381 |
| 4.0 - 5.0 | 5/32 - 7/32 | 12.3 / 0.485 | 02S | 6382 |
| 6.0 - 8.0 | 1/4 - 5/16 | 16.3 / 0.640 | 03S | 6383 |
| 9.0 - 11.0 | 11/32 - 13/32 | 19.8 / 0.780 | 04S | 6384 |
| 12.0 - 13.0 | 7/16 - 5/8 | 26.0 / 1.025 | 05S | 6385 |
| 14.0 - 17.0 | - | 29.4 / - - - - - | 06S | 6893 |
| 18.0 - 22.0 | 3/4 | 38.2 / 1.505 | 07S | 6389 |
| 23.0 | 7/8 | 39.8 / 1.565 | 08S | 6897 |
| 24.0 - 25.0 | 1 | 43.0 / 1.695 | 09S | 6398 |

STARLOCK® with stainless steel deep cap



| Shaft diameter | | External diameter mm / inch | Cap type | Magnetic ferrule Part No. |
|----------------|---------------|--------------------------------|----------|---------------------------|
| mm | inch | | | |
| 1.5 - 3.0 | 1/16 - 1/8 | 10.7 / 0.420 | 31S | 7011 |
| 4.0 - 5.0 | 5/32 - 7/32 | 12.5 / 0.490 | 32S | 7012 |
| 6.0 - 8.0 | 1/4 - 5/16 | 16.3 / 0.640 | 33S | 7013 |
| 9.0 - 11.0 | 11/32 - 13/32 | 19.8 / 0.785 | 34S | 7014 |
| 12.0 - 13.0 | 7/16 - 5/8 | 26.1 / 1.028 | 35S | 7015 |

STARLOCK® with steel extra deep cap



| Shaft diameter | | External diameter mm / inch | Cap type | Magnetic ferrule Part No. |
|----------------|---------------|--------------------------------|----------|---------------------------|
| mm | inch | | | |
| 3.0 - 5.0 | 5/32 - 7/32 | 12.3 / 0.485 | 42A | 7044 |
| 6.0 - 8.0 | 1/4 - 5/16 | 16.1 / 0.635 | 43A | 7045 |
| 9.0 - 11.0 | 11/32 - 13/32 | 19.7 / 0.777 | 44A | 7046 |



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Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO/TS 16949:2009

This is to certify that: **Baker & Finnmere Ltd**
199 Newhall Street
Birmingham
B3 1SN
United Kingdom

Holds Certificate Number: **TS 552058**
and operates a Quality Management System which complies with the requirements of ISO/TS 16949:2009 for the following scope:

The design and manufacture of Starlock fasteners and the manufacture of pressings.
Permitted exclusions: None

For and on behalf of BSI:
Gary Fenton, Chair, Certification Body Management Committee

Originally registered: 23/09/2013 Latest Issue: 23/09/2013 Expiry Date: 22/09/2016

IATF Number: 0170858



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This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be authenticated [online](#). Further clarifications regarding the scope of this certificate and the applicability of ISO/TS 16949:2009 requirements may be obtained by consulting the organization. IATF Contracted Office: BSI Group Americas Inc., 12110 Sunset Hills Road, Suite 200, Reston, VA20190, USA.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: +44 845 085 9000. BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK. A Member of the BSI Group of Companies.

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Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2008

This is to certify that: **Baker & Finnmere Ltd**
199 Newhall Street
Birmingham
B3 1SN
United Kingdom

Holds Certificate Number: **FM 29262**
and operates a Quality Management System which complies with the requirements of ISO 9001:2008 for the following scope:

The design and manufacture of Starlock fasteners and the manufacture of pressings.

For and on behalf of BSI:
Gary Fenton, Global Assurance Director

Originally registered: 20/09/1994 Latest Issue: 23/09/2013 Expiry Date: 22/09/2016



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Certificate of Registration

OCCUPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM

This is to certify that: **Baker & Finnmere Ltd**
199 Newhall Street
Birmingham
B3 1SN
United Kingdom

Holds Certificate No: **OHS 579503**
and operates an Occupational Health and Safety Management System which complies with the requirements of BS OHSAS 18001:2007 for the following scope:

The manufacture of Starlock fasteners, precision pressings and wall ties.

For and on behalf of BSI:
Gary Fenton, Global Assurance Director

Originally registered: 27/04/2012 Latest Issue: 27/04/2012 Expiry Date: 27/04/2015



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Certificate of Registration



ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2004

This is to certify that: **Baker & Finnmere Ltd**
199 Newhall Street
Birmingham
B3 1SN
United Kingdom

Holds Certificate Number: **EMS 540538**
and operates an Environmental Management System which complies with the requirements of ISO 14001:2004 for the following scope:

The manufacture of starlock fasteners, precision pressings and wall ties.

For and on behalf of BSI:
Gary Fenton, Global Assurance Director

Originally registered: 15/01/2009 Latest Issue: 29/07/2014 Expiry Date: 18/10/2017



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Baker & Finnemore Ltd

TITGEMEYER Group



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