

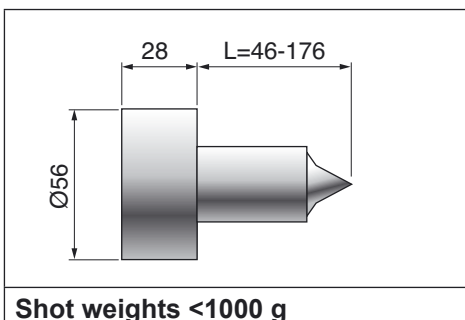
Heatlock NPT3...Needle Point Topless.

Features

- Withstand higher injection pressures.
- For use in very profiled surfaces.
- Easier to cool.
- Easy installation.
- Easy to use.

Egenskaper

- Klarar högre spruttryck.
- För användning vid mera komplexa formgeometrier.
- Enkel att kyla.
- Enkel att hantera.
- Enkel att använda.



NPT3

Bushing for direct gating with only the gate residue as witness mark on the part. An uninterrupted flow channel together with a maximum heat transfer down to the gate area are two of the main features which guarantees minimal stress to the melt coming through the bush.

The tip of the nozzle is manufactured from robust material to stand up to long and arduous service with high reliability. The material has a very high heat conductivity which ensures the heat supply down to the gate. This makes it possible to keep the gate easily open and use a small gate diameter with minimal vestige on the part as a result.

As with all our other bushes it is fully insulated from the mould with our special ceramic material, which has only 7% of the heat conducting capacity of steel.

The rugged longlife heater coil is asymmetrically wound to distribute the heat as uniformly as possible along the bushing. The thermocouple is separate and measures the temperature in the middle of the tube.

All this makes the bushing reliable and suitable for materials that are sensitive to friction and are difficult to inject.

Can be used in a single-cavity or multi cavity version, together with Heatlock standard manifolds or a custom made conventional manifold that is ceramically insulated.

NPT3

Bussningen för direktintag där endast den minimala intagsresten blir synlig på detaljen. Konstruktionen av bussningens spets och utformningen av flytkanalens profil har utformats så att man åstadkommer en maximal temperaturöverföring ned till intaget samtidigt som materialet utsätts för så lite påverkan som möjligt.

Bussningens spets är tillverkad i ett material som har hög hållfasthet för att tåla en lång och hård användning med hög tillförlitlighet. Materialet som har en mycket hög värmeledningsförmåga gör att temperaturen vid intagspunkten hålls på en hög nivå så att intaget lätt kan hållas öppet. Intagsresten blir därigenom mycket minimal då mycket små intagsdiametrar kan användas.

Den är liksom alla våra andra bussningar helt isolerad från formen med vårt speciella keramiska material som endast har 7 % av stålets värmeledningsförmåga. Det robusta spiralelementet som har lång livslängd, är olikformigt lindat för att ge en så jämn värmefördelning som möjligt längs bussningen. Avkännaren är separat och mäter temperaturen mitt på röret.

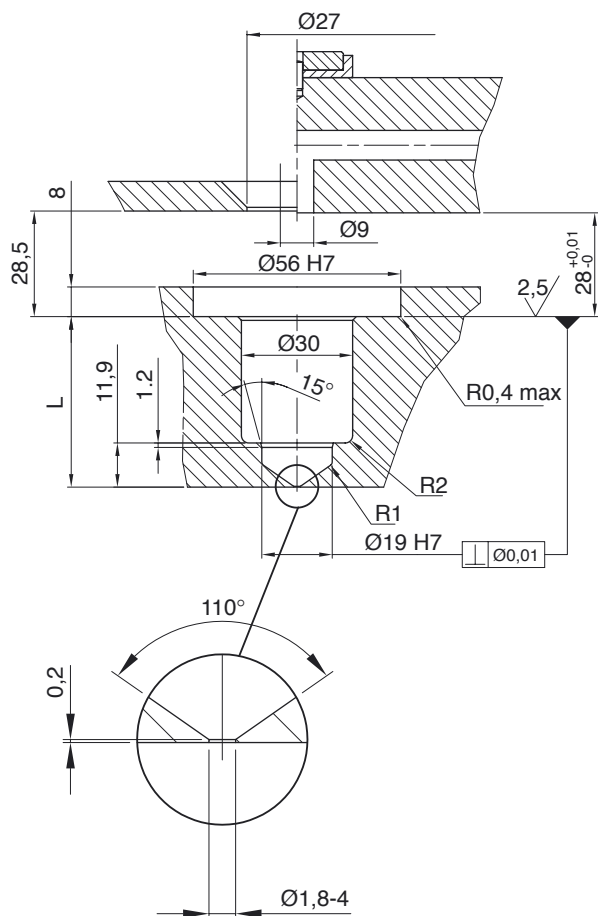
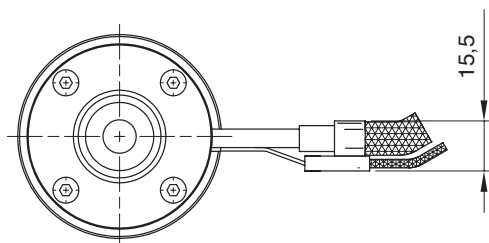
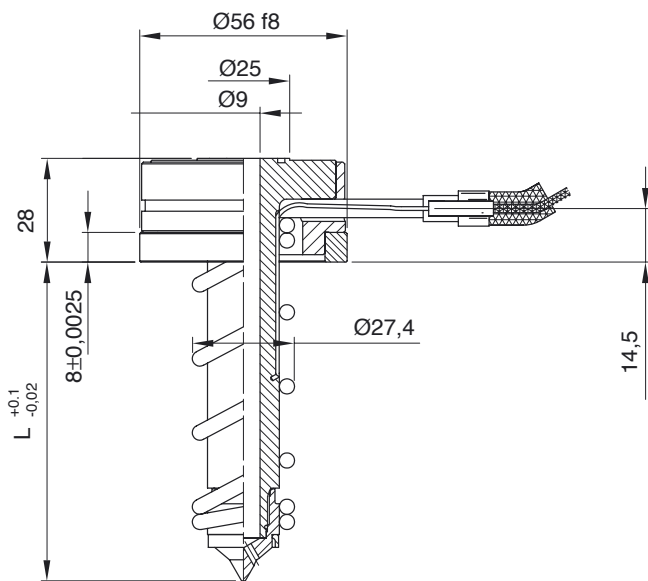
Allt detta gör bussningen tillförlitlig, lämplig även för friktionskänsliga och svårsprutade material.

Kan användas i enfacks- eller i flerfacksutförande tillsammans med en keramiskt isolerad varmkanalbalk.

more ►

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NPT3



| "L" mm | Part No. | | Total volume of feed channel in mm ³ |
|--------|-------------|-------------|---|
| | Single-cav. | Multi-cav.* | |
| 46 | NPT3046411 | NPT3046412 | 4121 |
| 66 | NPT3066411 | NPT3066412 | 5393 |
| 86 | NPT3086411 | NPT3086412 | 6665 |
| 116 | NPT3116411 | NPT3116412 | 8572 |
| 146 | NPT3146411 | NPT3146412 | 10480 |
| 176 | NPT3176411 | NPT3176412 | 12387 |

* with O-ring 630

Can be controlled with various types of temperature controllers intended for hot runner systems with 220/240 V using thermocouple of type Fe-CuNi.

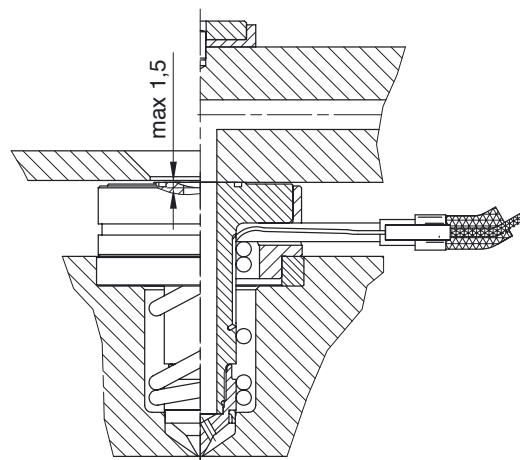
Recommended for the following maximum shot weights:

| | |
|--|-------|
| Low-viscosity plastic (PS,PE,PP) | 1000g |
| Med.-viscosity plastic (ABS,SAN, PA,POM) | 500g |
| High-viscosity plastic (PC,PMMA, Noryl, Filled material) | 300g |

| Length expansion at: °C="L"+X,xx | | | | | | |
|----------------------------------|------|------|------|------|------|------|
| °C | 46 | 66 | 86 | 116 | 146 | 176 |
| 200 | 0,11 | 0,15 | 0,20 | 0,27 | 0,34 | 0,40 |
| 250 | 0,13 | 0,19 | 0,25 | 0,33 | 0,42 | 0,51 |
| 300 | 0,16 | 0,23 | 0,30 | 0,40 | 0,50 | 0,61 |
| 350 | 0,19 | 0,27 | 0,35 | 0,47 | 0,59 | 0,71 |

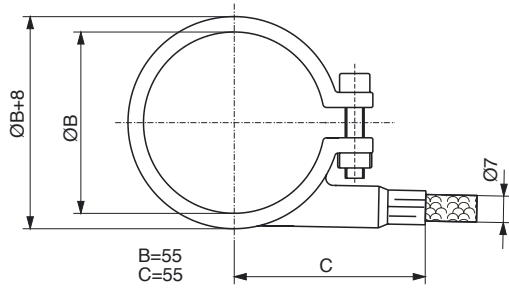
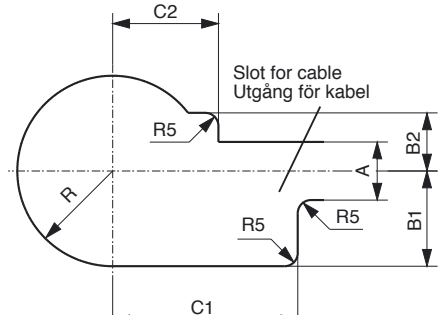
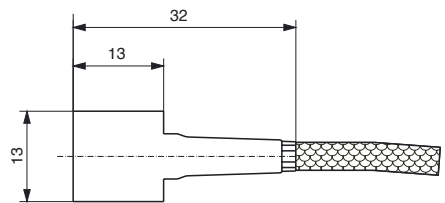
To ensure minimum vestige on the part, measure the actual "L" measurement on each bush, add the length expansion according to the table to get the hole depth ("L"+X,xx) to be drilled in the cavity plate.

Före inbyggnad, mät upp bussningens nominella "L"-mått, lägg därefter till längdutvidgningen så att bussningens spets ligger exakt vid intagspunkten i uppvärmt tillstånd.



more ▶

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|  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No.</th> <th style="text-align: left;">Watt</th> <th style="text-align: left;">Polarity</th> </tr> </thead> <tbody> <tr> <td>B055020180</td> <td>180</td> <td>no t/c</td> </tr> </tbody> </table> <p>When temperatures of 250-260°C and above are needed it may be advantageous to install a band heater at the back end together with thermocouple (TC00240000). This is also the case when shear sensitive materials are to be molded.</p> <p>Används när en jämn temperatur längs hela bussningen eftersträvas. Då tillsammans med ett termoelement (TC00240000).</p> | Part No. | Watt | Polarity | B055020180 | 180 | no t/c | | | | | | | | | | | | | | | |
|--|---|----------|----------|------------|---------------|-----|--------|----|------|----|----|---|---|---|---|------------|----|----|----|----|----|----|
| Part No. | Watt | Polarity | | | | | | | | | | | | | | | | | | | | |
| B055020180 | 180 | no t/c | | | | | | | | | | | | | | | | | | | | |
|  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No.</th> <th style="text-align: left;">R</th> <th style="text-align: left;">A</th> <th style="text-align: left;">B1</th> <th style="text-align: left;">B2</th> <th style="text-align: left;">C1</th> <th style="text-align: left;">C2</th> </tr> </thead> <tbody> <tr> <td>Bush</td> <td>28</td> <td>22</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>B055020180</td> <td>40</td> <td>22</td> <td>42</td> <td>22</td> <td>85</td> <td>45</td> </tr> </tbody> </table> <p>Cavity instructions for bushes with or without bandheater B055020180.</p> <p>Håltagning för bussning med eller utan bandelement B055020180.</p> | Part No. | R | A | B1 | B2 | C1 | C2 | Bush | 28 | 22 | - | - | - | - | B055020180 | 40 | 22 | 42 | 22 | 85 | 45 |
| Part No. | R | A | B1 | B2 | C1 | C2 | | | | | | | | | | | | | | | | |
| Bush | 28 | 22 | - | - | - | - | | | | | | | | | | | | | | | | |
| B055020180 | 40 | 22 | 42 | 22 | 85 | 45 | | | | | | | | | | | | | | | | |
|  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No.</th> <th style="text-align: left;">Polarity</th> </tr> </thead> <tbody> <tr> <td>TC00240000</td> <td>Black (red) +</td> </tr> </tbody> </table> <p>Thermocouple used between bandheaters and sprue bush. Measures temperatures up to +400°C. The blade is made of copper and can be contoured to various shapes.</p> <p>Termogivare för användning mellan bandelement och bussning. Mäter temperaturer upp till +400°C. Bladet är gjort av koppar och kan bearbetas till olika former.</p> | Part No. | Polarity | TC00240000 | Black (red) + | | | | | | | | | | | | | | | | | |
| Part No. | Polarity | | | | | | | | | | | | | | | | | | | | | |
| TC00240000 | Black (red) + | | | | | | | | | | | | | | | | | | | | | |

**Prior to any assembly refer to our latest
 assembly instruction, always available on our
 web site www.heatlock.com**

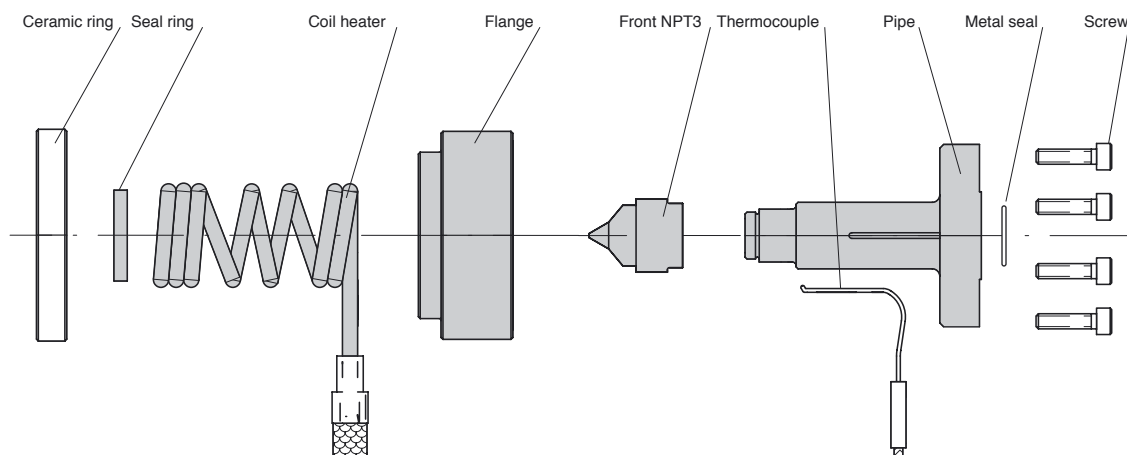
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NPT3



| NPT3 | Pipe | Coil heater | Thermo-couple | Seal ring | Metal seal | Flange | Ceramic ring | Srew 4 pcs. | Front NPT3 |
|------------|------------|-------------|---------------|------------|------------|------------|--------------|-------------|------------|
| NPT3046411 | SBBP304630 | C190550335 | TC00140200 | NPTP3SR000 | – | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |
| NPT3046412 | SBBP304630 | C190550335 | TC00140200 | NPTP3SR000 | ORING00630 | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |
| | | | | | | | | | |
| NPT3066411 | SBBP306630 | C190750335 | TC00140210 | NPTP3SR000 | – | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |
| NPT3066412 | SBBP306630 | C190750335 | TC00140210 | NPTP3SR000 | ORING00630 | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |
| | | | | | | | | | |
| NPT3086411 | SBBP308630 | C190950560 | TC00140210 | NPTP3SR000 | – | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |
| NPT3086412 | SBBP308630 | C190950560 | TC00140210 | NPTP3SR000 | ORING00630 | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |
| | | | | | | | | | |
| NPT3116411 | SBBP311630 | C191250560 | TC00140220 | NPTP3SR000 | – | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |
| NPT3116412 | SBBP311630 | C191250560 | TC00140220 | NPTP3SR000 | ORING00630 | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |
| | | | | | | | | | |
| NPT3146411 | SBBP314630 | C191550835 | TC00140230 | NPTP3SR000 | – | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |
| NPT3146412 | SBBP314630 | C191550835 | TC00140230 | NPTP3SR000 | ORING00630 | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |
| | | | | | | | | | |
| NPT3176411 | SBBP317630 | C191850835 | TC00140250 | NPTP3SR000 | – | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |
| NPT3176412 | SBBP317630 | C191850835 | TC00140250 | NPTP3SR000 | ORING00630 | ESBP398210 | KEM05604408 | MC6S04X012 | NPTF300010 |