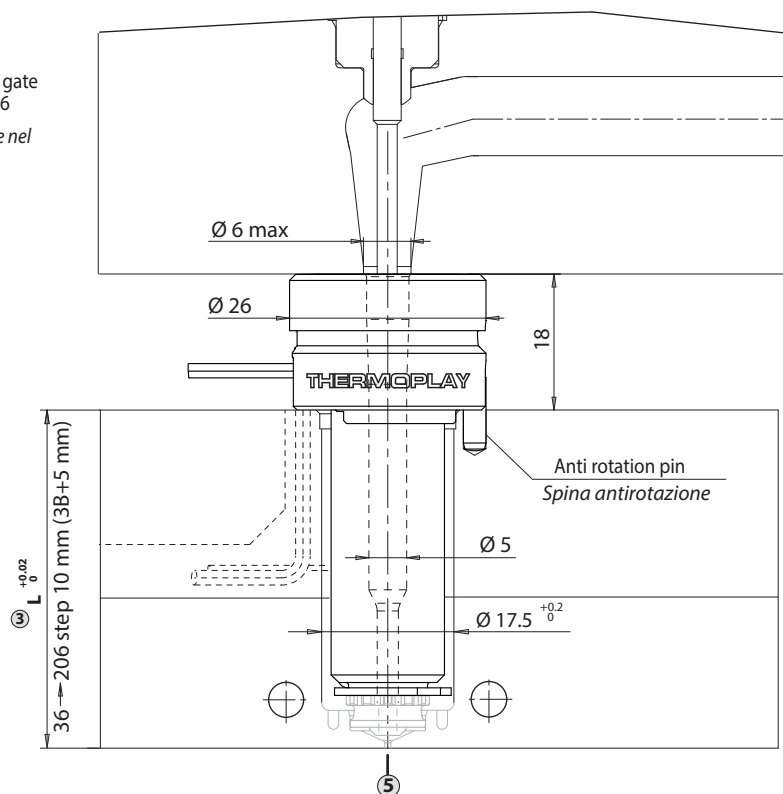




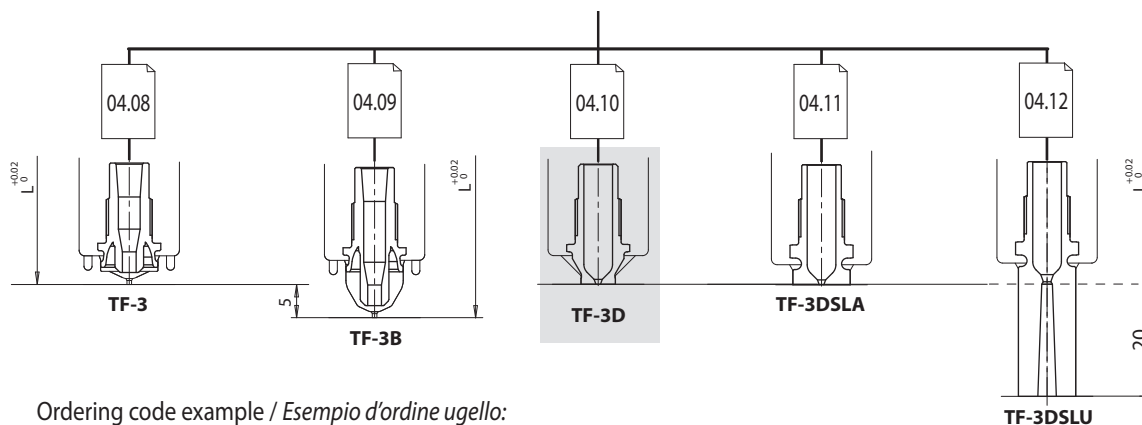
## MANIFOLD / PIASTRA DI DISTRIBUZIONE

The range of available valve gate is described at chapter 06

Scelta dei gruppi otturazione nel capitolo 06



## Interchangeable tips / Puntali intercambiabili



Ordering code example / Esempio d'ordine ugello:

① ② ③ ④ ⑤ ⑥  
T F 1 7 0 8 6 - A - 3 - J G

① Nozzle type / Tipo ugello (TF)

② 17 Diameter nozzle / Diametro ugello (Ø17)

③ 086 Nozzle length / Lunghezza ugello (L=86)

④ A Top heater cable exit / Uscita cavi in alto (A)

⑤ 3 Tip type / Tipo puntale (3)

⑥ JG Thermocouple type / Tipo termocoppia (grounded / a massa)

04.13

04.13

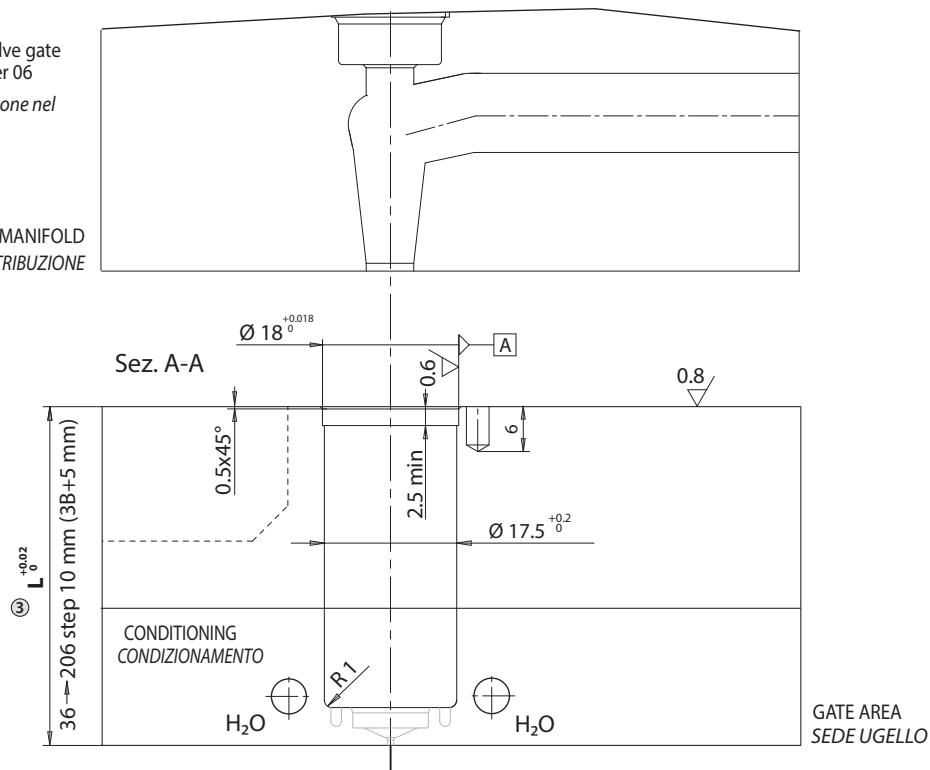
The highlighted types are not available on stock. Delivery times are to be agreed. All applications subjected to Thermoplay A.E. review  
Le tipologie evidenziate non sono a magazzino. I tempi di consegna sono da concordare. Tutte le applicazioni sono soggette a verifica in fase di offerta.



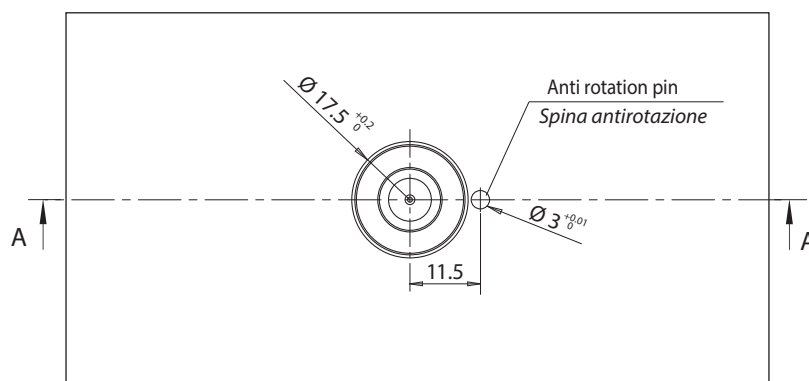
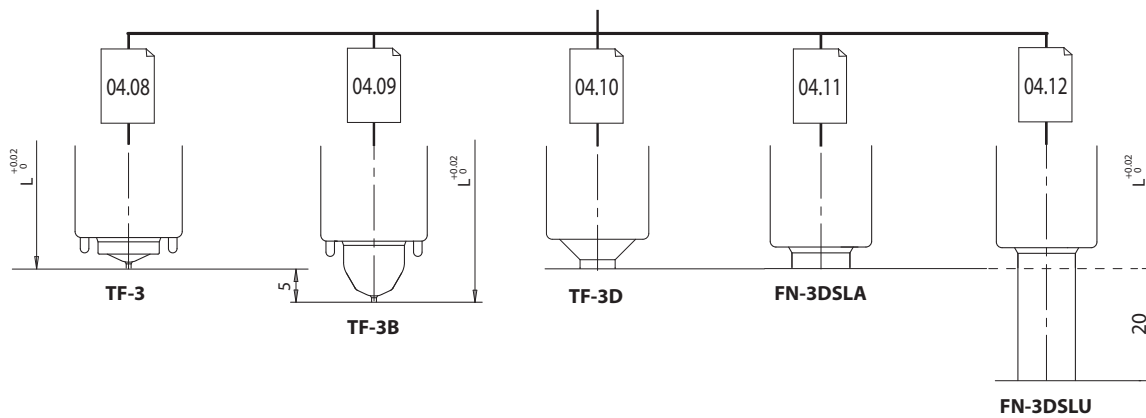
The range of available valve gate is described at chapter 06

Scelta dei gruppi otturazione nel capitolo 06

MANIFOLD  
PIASTRA DI DISTRIBUZIONE



⑤ Interchangeable tips / Puntali intercambiabili



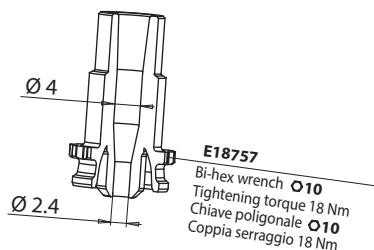


**TYPE TF-3:** The nozzle for injection with valve gate is suitable for moulding parts where an optimum gate aesthetics is required. It is also suitable for moulding reinforced plastic material with abrasive fillers.

**TIPO TF-3:** Ugello per l'iniezione con gruppo otturazione idoneo allo stampaggio di particolari dove è richiesto un ottimo aspetto estetico del punto di iniezione. E' idoneo anche allo stampaggio di materiali con cariche abrasive.

### TIP GROUP / GRUPPO PUNTALE

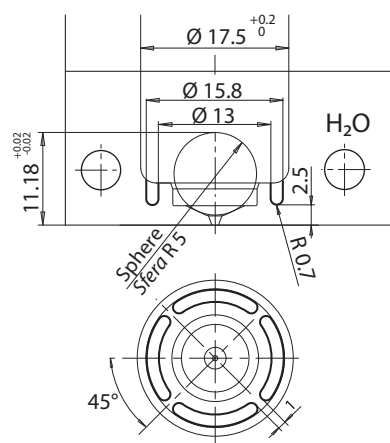
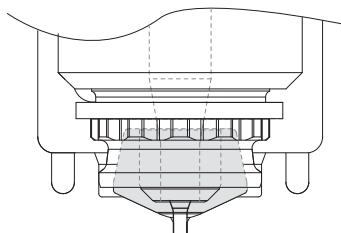
| Type<br>Tipo | Code<br>Codice |
|--------------|----------------|
| TF17-3       | E20878         |



### COLOUR CHANGE BUSHING / BOCCOLA CAMBIO COLORE

Available upon request / Disponibile su richiesta

| Type<br>Tipo | Code<br>Codice |
|--------------|----------------|
| TF17-3       | E20890         |

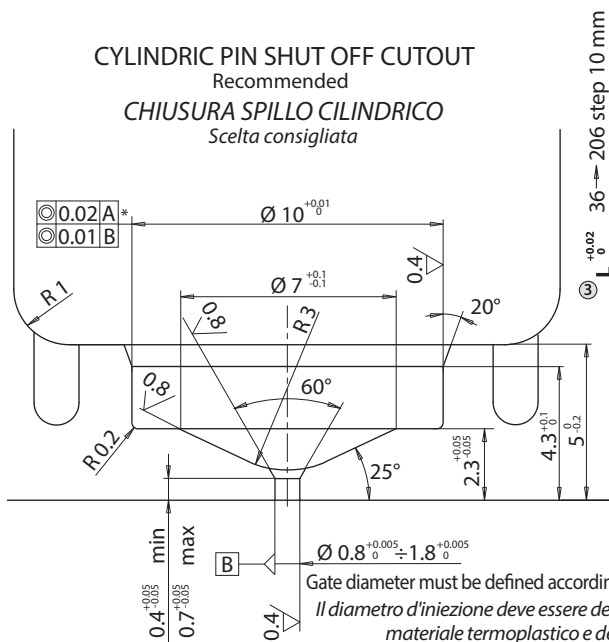


### CYLINDRIC PIN SHUT OFF CUTOUT

Recommended

#### CHIUSURA SPILLO CILINDRICO

Scelta consigliata

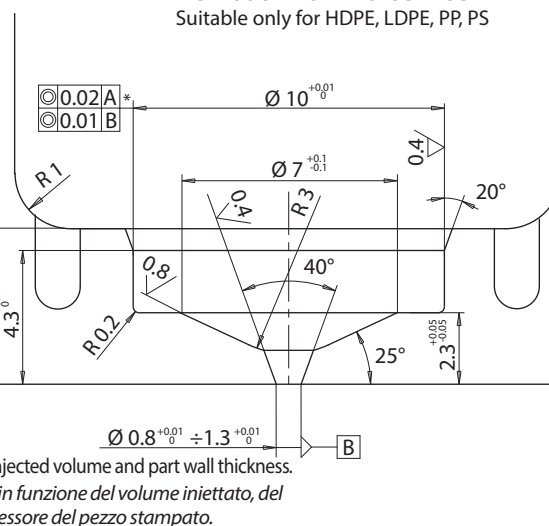


### CONICAL PIN SHUT OFF CUTOUT

Idoneo solo per HDPE, LDPE, PP, PS

#### CHIUSURA SPILLO CONICO

Suitable only for HDPE, LDPE, PP, PS



To be defined according to polymers characteristics, injection cycle and cooling cycles.

L'altezza ottimale della chiusura è funzione delle caratteristiche del polimero, del tipo di ciclo, del circuito di raffreddamento e dei parametri di stampaggio.

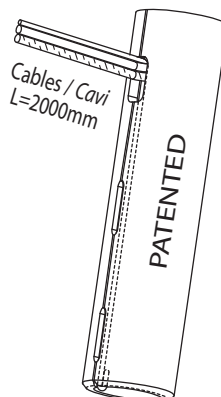
\* [A] Ref. page 04.07 for sliding nozzle - page 09.04 for single nozzle  
pagina 04.07 per ugelli a rasamento - pagina 09.04 per monougelli



## HEATER AND THERMOCOUPLE WITH WIRE EXIT AT THE TOP RESISTENZA E TERMOCOPPIA CON USCITA CAVI IN ALTO

- A <sup>④</sup>

| ③ L | L<br>Type 3B<br>Tipo 3B | Heater code<br>Codice resistenza | Watt | Thermocouple<br>Codice termocoppia ugello ⑥ |                                |
|-----|-------------------------|----------------------------------|------|---------------------------------------------|--------------------------------|
|     |                         |                                  |      | grounded - a massa<br>.. - JG               | insulated - isolata<br>.. - JU |
| 36  | 41                      | E09394                           | 200  | E05302-TF17                                 | E16027-TF17                    |
| 46  | 51                      | E09395                           | 200  |                                             |                                |
| 56  | 61                      | E09310                           | 200  |                                             |                                |
| 66  | 71                      | E09311                           | 200  |                                             |                                |
| 76  | 81                      | E09312                           | 200  |                                             |                                |
| 86  | 91                      | E09313                           | 200  | E05504-TF17                                 | E16029-TF17                    |
| 96  | 101                     | E09314                           | 200  |                                             |                                |
| 106 | 111                     | E09315                           | 200  |                                             |                                |
| 116 | 121                     | E09316                           | 200  |                                             |                                |
| 126 | 131                     | E09317                           | 200  |                                             |                                |
| 136 | 141                     | E09318                           | 220  | E05917-TF17                                 | E16030-TF17                    |
| 146 | 151                     | E09319                           | 220  |                                             |                                |
| 156 | 161                     | E09320                           | 220  |                                             |                                |
| 166 | 171                     | E09321                           | 220  |                                             |                                |
| 176 | 181                     | E09322                           | 235  |                                             |                                |
| 186 | 191                     | E09323                           | 235  | E05913-TF17                                 | E16031-TF17                    |
| 196 | 201                     | E09324                           | 235  |                                             |                                |
| 206 | 211                     | E09325                           | 235  |                                             |                                |



| Suffix<br>Suffisso ⑥ | Description<br>Descrizione                                                                |
|----------------------|-------------------------------------------------------------------------------------------|
| .. - JG              | Grounded thermocouple<br>with J type calibration<br>Termocoppia ugello a<br>massa tipo J  |
| .. - JU              | Insulated thermocouple<br>with J type calibration<br>Termocoppia ugello<br>isolata tipo J |

| HEATER / RESISTENZA                        |       |
|--------------------------------------------|-------|
| White / Red-White<br>Bianco / Rosso-Bianco | 230 V |
| THERMOCOUPLE<br>TERMOCOPPIA                |       |
| Red / Rosso                                | TC+   |
| Blue / Blu                                 | TC-   |

| Description / Descrizione                                            | Code<br>Codice |
|----------------------------------------------------------------------|----------------|
| Standard stop thermocouple ring<br>Anello ferma termocoppia standard | <b>E19837</b>  |

Ordering code example / Esempio d'ordine ugello:



- ① TF nozzle type / Tipo ugello (TF)
- ② 17 Nozzle diameter / Diametro ugello (Ø17)
- ③ 166 nozzle length / Lunghezza ugello (L=166)
- ④ M Middle heater cable exit / Uscita cavi a metà (M)
- ⑤ 3 Tip type / Tipo puntale (3)
- ⑥ JU Thermocouple type / Tipo termocoppia (insulated / isolata)

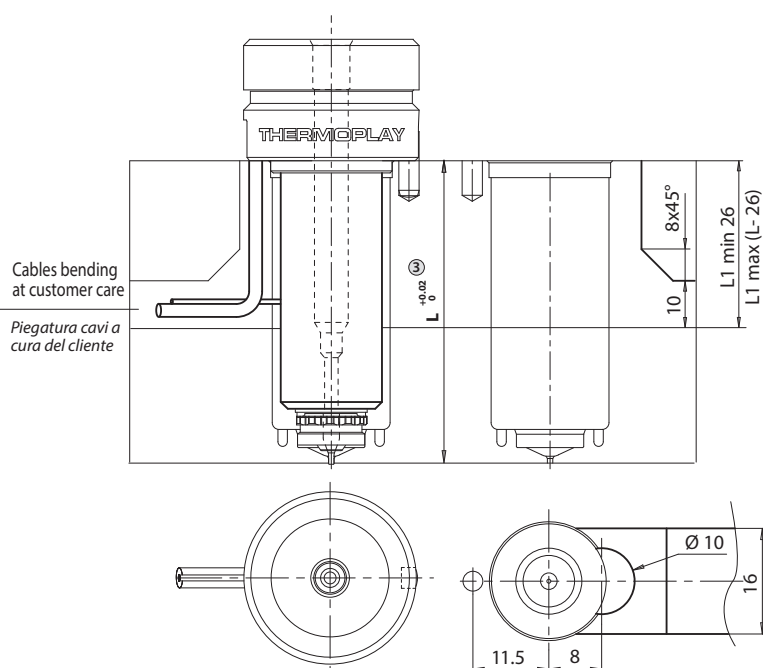
If not specified, grounded thermocouple are supplied / Se non specificato fornito termocoppia a massa

## HEATER AND THERMOCOUPLE WITH WIRE EXIT AT THE MIDDLE RESISTENZA E TERMOCOPPIA CON USCITA CAVI A METÀ

- M <sup>④</sup>

Available only for types / Solo disponibile nei tipi: 3, 3B

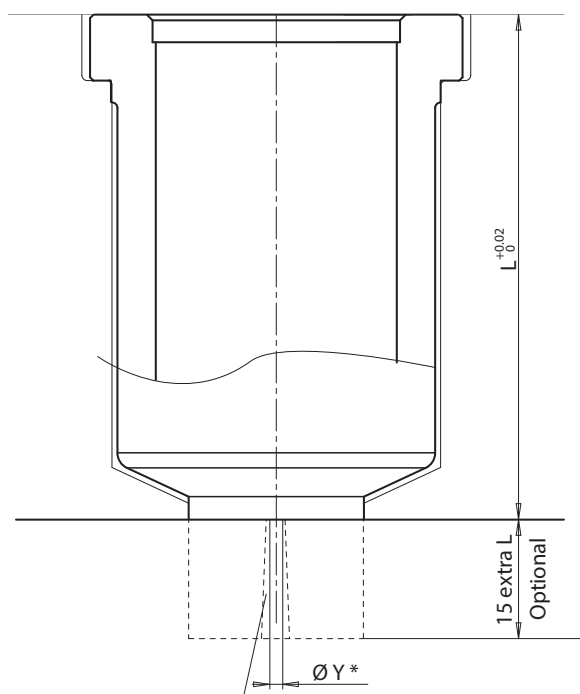
The wire exit in the middle of the nozzle body allows the heater replacement with the mould assembled to the press machine.  
L'uscita dei cavi in posizione intermedia lungo il corpo ugello permette la sostituzione della resistenza con lo stampo montato sulla pressa.



| ③ L | L<br>Type 3B<br>Tipo 3B | Heater code<br>Codice resistenza | Watt | Thermocouple<br>Codice termocoppia ugello ⑥ |                                |
|-----|-------------------------|----------------------------------|------|---------------------------------------------|--------------------------------|
|     |                         |                                  |      | grounded - a massa<br>.. - JG               | insulated - isolata<br>.. - JU |
| 66  | 71                      | E09627                           | 200  | E05302-TF17                                 | E16027-TF17                    |
| 76  | 81                      | E09628                           | 200  |                                             |                                |
| 86  | 91                      | E09629                           | 200  |                                             |                                |
| 96  | 101                     | E09630                           | 200  | E05504-TF17                                 | E16029-TF17                    |
| 106 | 111                     | E09631                           | 200  |                                             |                                |
| 116 | 121                     | E09632                           | 200  |                                             |                                |
| 126 | 131                     | E09633                           | 200  |                                             |                                |
| 136 | 141                     | E09634                           | 220  |                                             |                                |
| 146 | 151                     | E09635                           | 220  | E05917-TF17                                 | E16030-TF17                    |
| 156 | 161                     | E09636                           | 220  |                                             |                                |
| 166 | 171                     | E09637                           | 220  |                                             |                                |
| 176 | 181                     | E09638                           | 235  |                                             |                                |
| 186 | 191                     | E09639                           | 235  |                                             |                                |
| 196 | 201                     | E09640                           | 235  | E05913-TF17                                 | E16031-TF17                    |
| 206 | 211                     | E09641                           | 235  |                                             |                                |

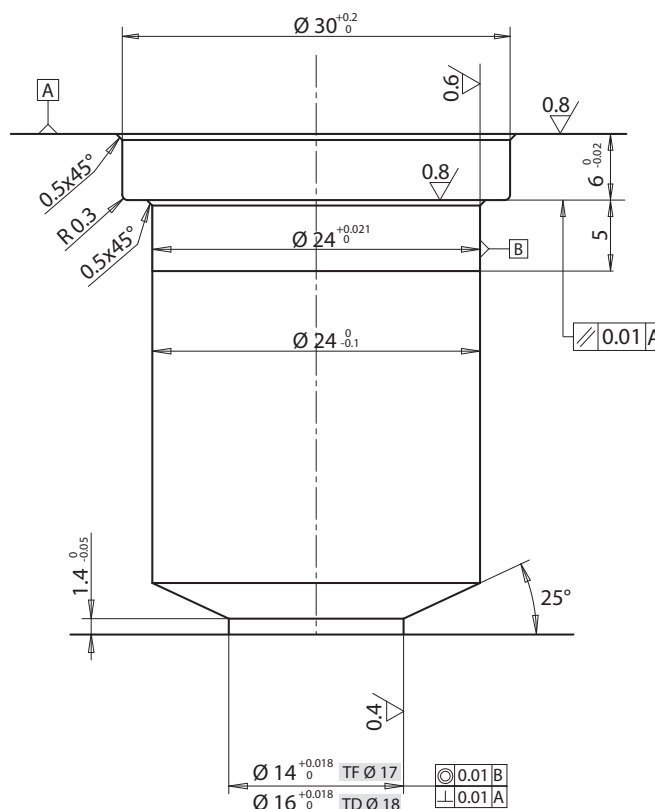


## BUSHING / BOCCOLA



Draft angle at customer care  
Sformatura a cura cliente

## BUSHING CUTOUT / SEDE BOCCOLA



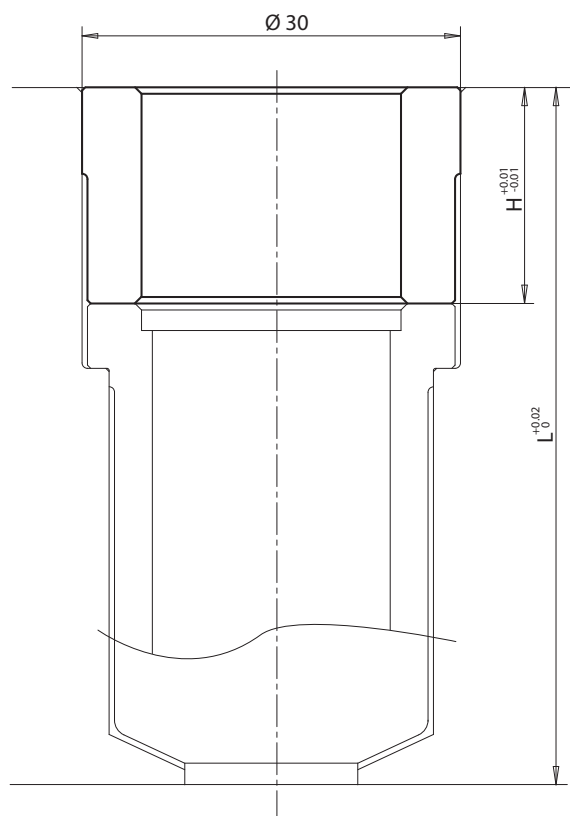
| TF Ø 17 | Nozzle Ø<br>Ø Ugello | TYPE<br>TIPO                  | Ø Y *      | L  | TF Ø 17<br>sliding nozzles/ugelli a rasamento |                        | TF6 Ø 17<br>single nozzles/monougelli |                        |
|---------|----------------------|-------------------------------|------------|----|-----------------------------------------------|------------------------|---------------------------------------|------------------------|
|         |                      |                               |            |    | code/codice                                   | code/codice<br>extra L | code/codice                           | code/codice<br>extra L |
|         | 17                   | 1 - 1GLT                      | 0.6 >> 1.2 | 36 | E09505/ØY                                     | E09507/ØY              | E16875/ØY                             | E16877/ØY              |
|         |                      |                               |            | 46 | E09506/ØY                                     | E09508/ØY              | E16876/ØY                             | E16878/ØY              |
|         |                      | 2 - 2P                        | 1.0 >> 2.0 | 36 | E09677/ØY                                     | E09679/ØY              | E16879/ØY                             | E16881/ØY              |
|         |                      |                               |            | 46 | E09678/ØY                                     | E09680/ØY              | E16880/ØY                             | E16882/ØY              |
|         |                      | 3 cylindrical<br>3 cilindrico | 0.8 >> 1.8 | 36 | E09686/ØY                                     | E09688/ØY              | MOØ17 - pag. 11.10                    |                        |
|         |                      |                               |            | 46 | E09687/ØY                                     | E09689/ØY              |                                       |                        |
|         |                      | 3conical<br>3conico           | 0.8 >> 1.3 | 36 | E09910/ØY                                     | E09912/ØY              |                                       |                        |
|         |                      |                               |            | 46 | E09911/ØY                                     | E09913/ØY              |                                       |                        |

| TD Ø 18 | Nozzle Ø<br>Ø Ugello | TYPE<br>TIPO                  | Ø Y *      | L  | TD Ø 18<br>sliding nozzles/ugelli a rasamento |                        | TD6 Ø 18<br>single nozzles/monougelli |                        |
|---------|----------------------|-------------------------------|------------|----|-----------------------------------------------|------------------------|---------------------------------------|------------------------|
|         |                      |                               |            |    | code/codice                                   | code/codice<br>extra L | code/codice                           | code/codice<br>extra L |
|         | 18                   | 1 - 1GLT                      | 0.6 >> 1.2 | 36 | E17028/ØY                                     | E17030/ØY              | E17028/ØY                             | E17030/ØY              |
|         |                      |                               |            | 46 | E17029/ØY                                     | E17031/ØY              | E17029/ØY                             | E17031/ØY              |
|         |                      | 2                             | 1.0 >> 1.8 | 36 | E17768/ØY                                     | E17770/ØY              | E17768/ØY                             | E17770/ØY              |
|         |                      |                               |            | 46 | E17769/ØY                                     | E17771/ØY              | E17769/ØY                             | E17771/ØY              |
|         |                      | 3 cylindrical<br>3 cilindrico | 0.8 >> 1.1 | 36 | E17935/ØY                                     | E17937/ØY              | --                                    | --                     |
|         |                      |                               |            | 46 | E17936/ØY                                     | E17938/ØY              | --                                    | --                     |
|         |                      | 3conical<br>3conico           | 0.8 >> 1.2 | 36 | E17939/ØY                                     | E17941/ØY              | --                                    | --                     |
|         |                      |                               |            | 46 | E17940/ØY                                     | E17942/ØY              | --                                    | --                     |

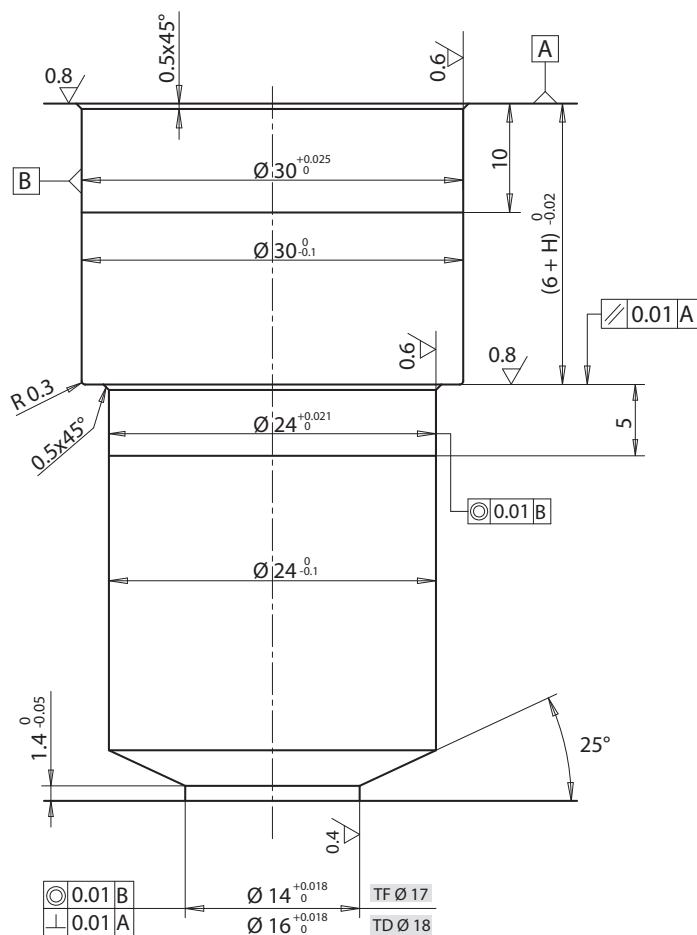
\* Thermoplay reserves the right to evaluate the feasibility of the gate diameter with respect to the extra length  
Thermoplay si riserva in fase d'ordine di valutare la fattibilità del diametro del foro rispetto all'altezza dell'extralunghezza



## SPACER / DISTANZIALE



## SPACER CUTOUT / SEDE DISTANZIALE



## TF Ø 17

**TF Ø 17**  
sliding  
nozzles  
ugelli a  
rasamento

|   |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |
|---|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| H | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 |
|---|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|

**TF6 Ø 17**  
single  
nozzles  
monougelli

|        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E16891 | E16892 | E16893 | E16894 | E16895 | E16896 | E16897 | E16898 | E16899 | E16900 | E16901 | E16902 | E16903 | E16904 | E16905 | E16906 | E16907 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

## TD Ø 18

**TD Ø 18**  
sliding  
nozzles  
ugelli a  
rasamento

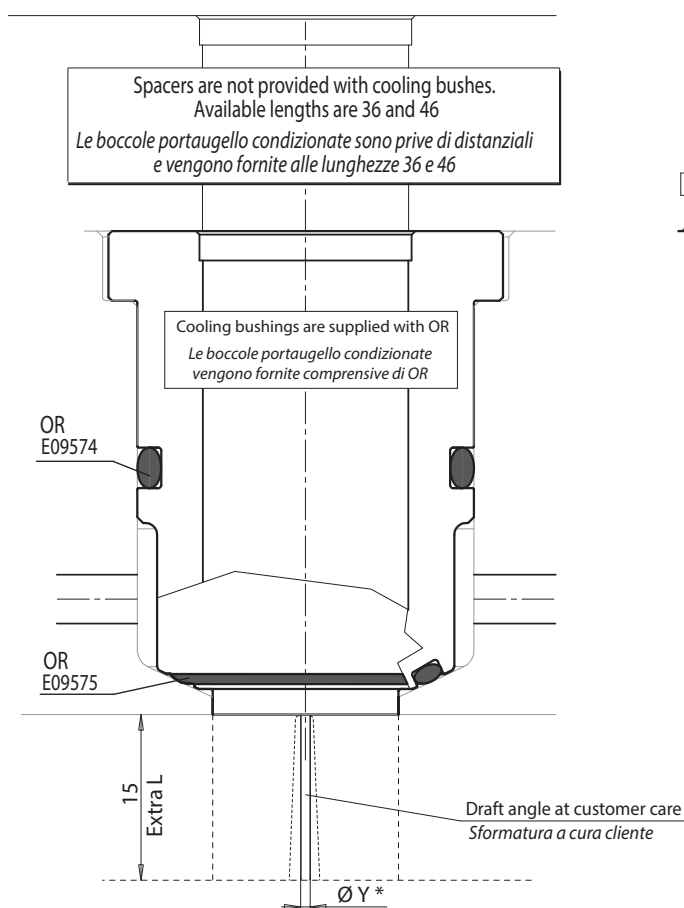
|   |    |    |    |    |    |    |    |    |    |     |
|---|----|----|----|----|----|----|----|----|----|-----|
| H | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|---|----|----|----|----|----|----|----|----|----|-----|

**TD6 Ø 18**  
single  
nozzles  
monougelli

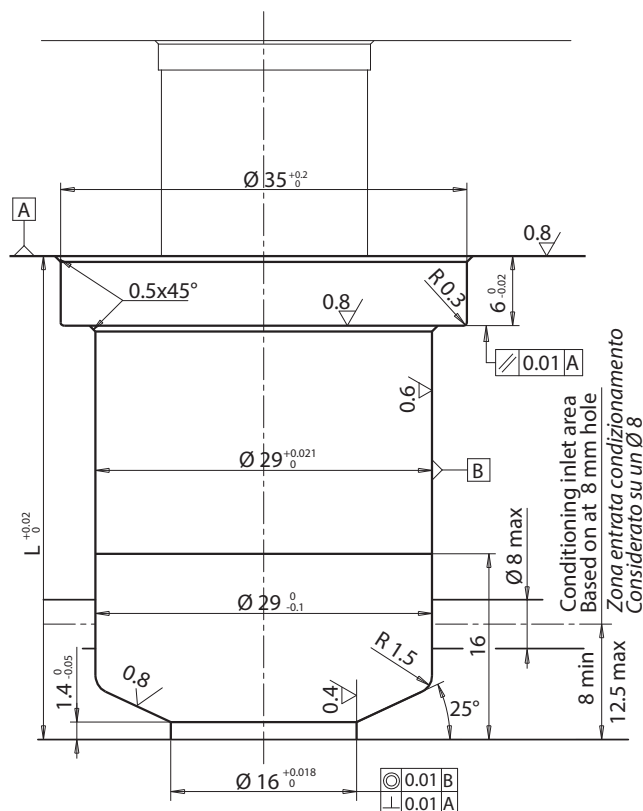
|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E09518 | E09519 | E09520 | E09521 | E09522 | E09523 | E09524 | E09525 | E09526 | E09527 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|



## BUSHING / BOCCOLA



## BUSHING CUTOUT / SEDE BOCCOLA

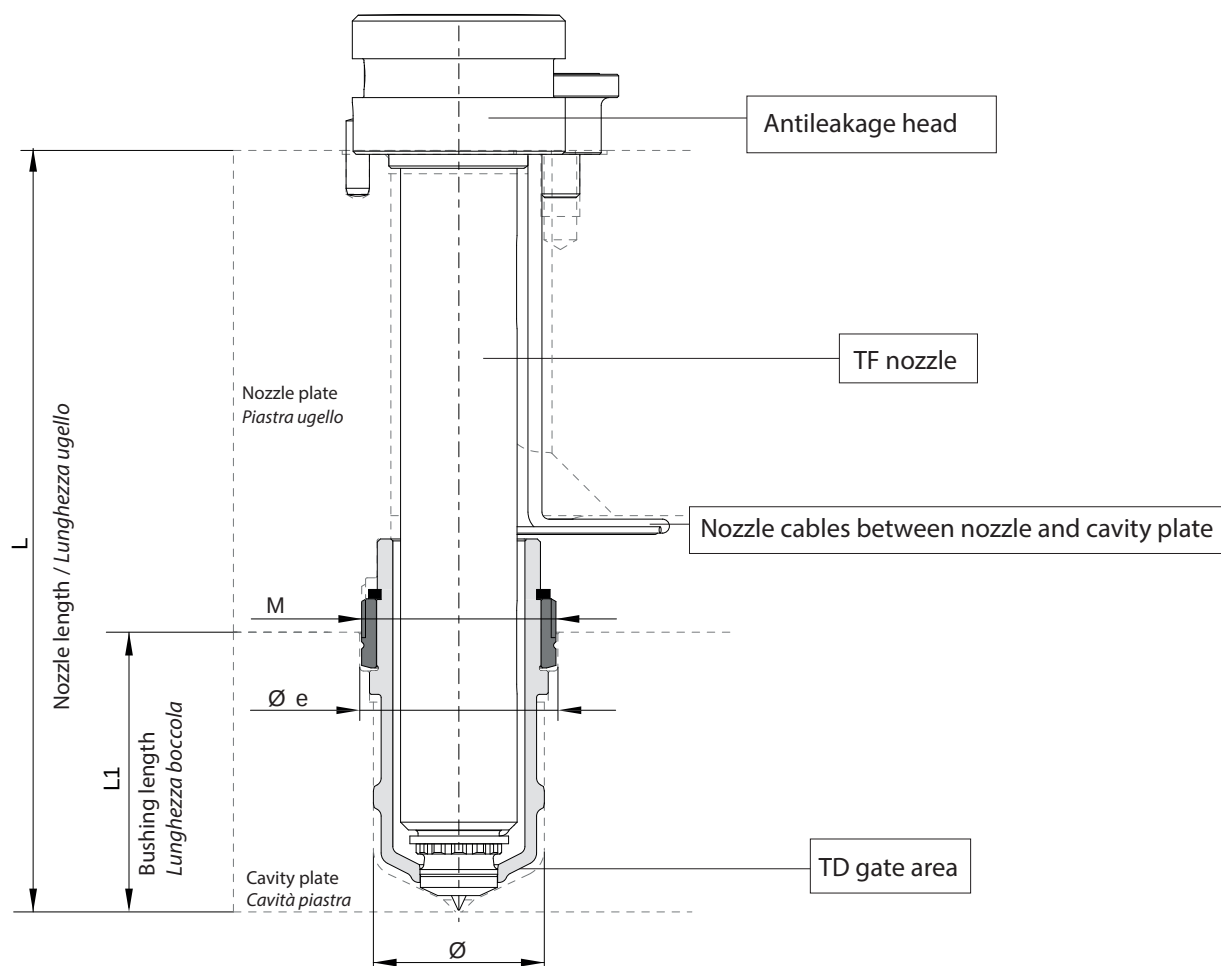


\* Thermoplay reserves the right to evaluate the feasibility of the gate diameter with respect to the extra length

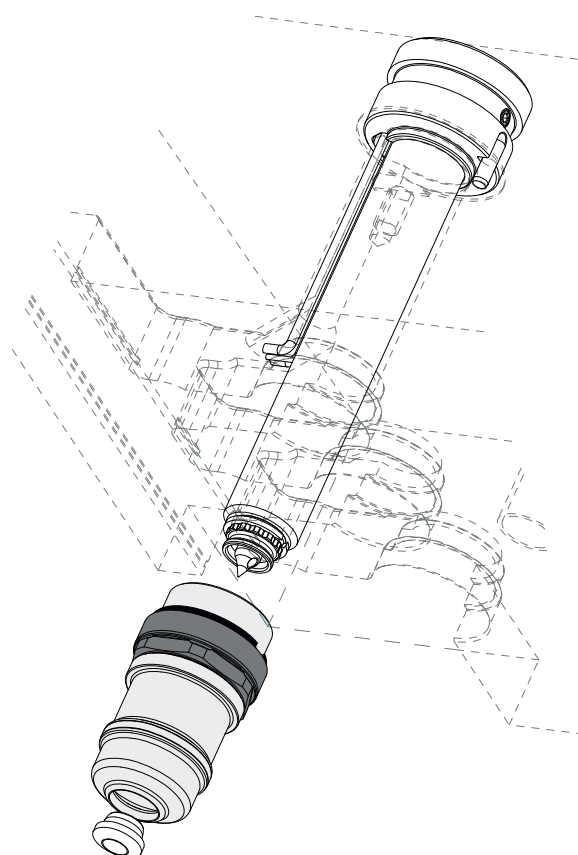
*Thermoplay si riserva in fase d'ordine di valutare la fattibilità del diametro del foro rispetto all'altezza dell'extralunghezza*

| TF Ø 17 | Nozzle Ø<br>Ø Ugello | TYPE<br>TIPO                  | Ø Y *      | L      | TF Ø 17<br>sliding nozzles/ugelli a rasamento |                        | TF6 Ø 17<br>single nozzles/monougelli |                        |  |  |
|---------|----------------------|-------------------------------|------------|--------|-----------------------------------------------|------------------------|---------------------------------------|------------------------|--|--|
|         |                      |                               |            |        | code/codice                                   | code/codice<br>extra L | code/codice                           | code/codice<br>extra L |  |  |
|         | 17                   | 1 - 1GLT                      | 0.6 >> 1.2 | 36     | E09568/ØY                                     | E09570/ØY              | E16908/ØY                             | E16910/ØY              |  |  |
|         |                      |                               |            | 46     | E09569/ØY                                     | E09571/ØY              | E16909ØY                              | E16911/ØY              |  |  |
|         |                      | 2 - 2P                        | 1.0 >> 2.0 | 36     | E09681/ØY                                     | E09683/ØY              | E16912/ØY                             | E1914/ØY               |  |  |
|         |                      |                               |            | 46     | E09682/ØY                                     | E09684/ØY              | E16913/ØY                             | E16915/ØY              |  |  |
|         |                      | 3 cylindrical<br>3 cilindrico | 0.8 >> 1.8 | 36     | E09690/ØY                                     | E09692ØY               | MOØ17 - pag. 11.11                    |                        |  |  |
|         |                      |                               |            | 46     | E09691/ØY                                     | E09693/ØY              |                                       |                        |  |  |
|         |                      | 3conical<br>3conico           | 0.8 >> 1.3 | 36     | E09918/ØY                                     | E09920/ØY              |                                       |                        |  |  |
|         |                      |                               |            | 46     | E09919/ØY                                     | E09921ØY               |                                       |                        |  |  |
| 1D-3D   |                      | --                            | 36         | E09700 | --                                            | E16924                 | --                                    |                        |  |  |
|         |                      |                               | 46         | E09701 | --                                            | E16925                 | --                                    |                        |  |  |
| 2D      |                      | --                            | 36         | E09713 | --                                            | E16926                 | --                                    |                        |  |  |
|         |                      |                               | 46         | E09714 | --                                            | E16927                 | --                                    |                        |  |  |

| TD Ø 18 | Nozzle Ø<br>Ø Ugello | TYPE<br>TIPO                  | Ø Y *      | L  | TD Ø 18<br>sliding nozzles/ugelli a rasamento |                        | TD6 Ø 18<br>single nozzles/monougelli |                        |
|---------|----------------------|-------------------------------|------------|----|-----------------------------------------------|------------------------|---------------------------------------|------------------------|
|         |                      |                               |            |    | code/codice                                   | code/codice<br>extra L | code/codice                           | code/codice<br>extra L |
|         | 18                   | 1 - 1GLT                      | 0.6 >> 1.2 | 36 | E17032/ØY                                     | E17034/ØY              | E17032/ØY                             | E17034/ØY              |
|         |                      |                               |            | 46 | E17033/ØY                                     | E17035/ØY              | E17033/ØY                             | E17035/ØY              |
|         |                      | 2                             | 1.0 >> 1.8 | 36 | E17784/ØY                                     | E17786/ØY              | E17784/ØY                             | E17786/ØY              |
|         |                      |                               |            | 46 | E17785/ØY                                     | E17787/ØY              | E17785/ØY                             | E17787/ØY              |
|         |                      | 3 cylindrical<br>3 cilindrico | 0.8 >> 1.1 | 36 | E17943/ØY                                     | E17945/ØY              | --                                    | --                     |
|         |                      |                               |            | 46 | E17944/ØY                                     | E17946/ØY              | --                                    | --                     |
|         |                      | 3conical<br>3conico           | 0.8 >> 1.2 | 36 | E17947/ØY                                     | E17949/ØY              | --                                    | --                     |
|         |                      |                               |            | 46 | E17948/ØY                                     | E17950/ØY              | --                                    | --                     |



| For nozzle<br>Per ugello | Ø  | M   | Ø e  |
|--------------------------|----|-----|------|
| <b>TF Ø 14</b>           | 18 | M22 | 24   |
| <b>TF Ø 17</b>           | 22 | M25 | 25.5 |
| <b>TF Ø 23</b>           | 30 | M35 | 35.5 |



Not available on stock. Delivery times are to be agreed. *Non disponibile a magazzino. I tempi di consegna sono da concordare.*