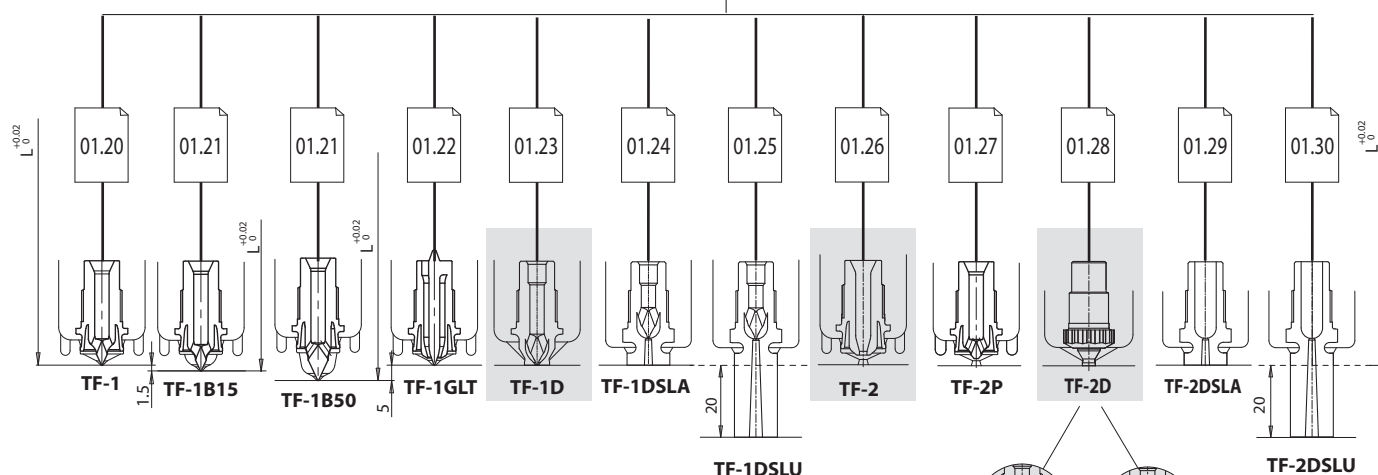
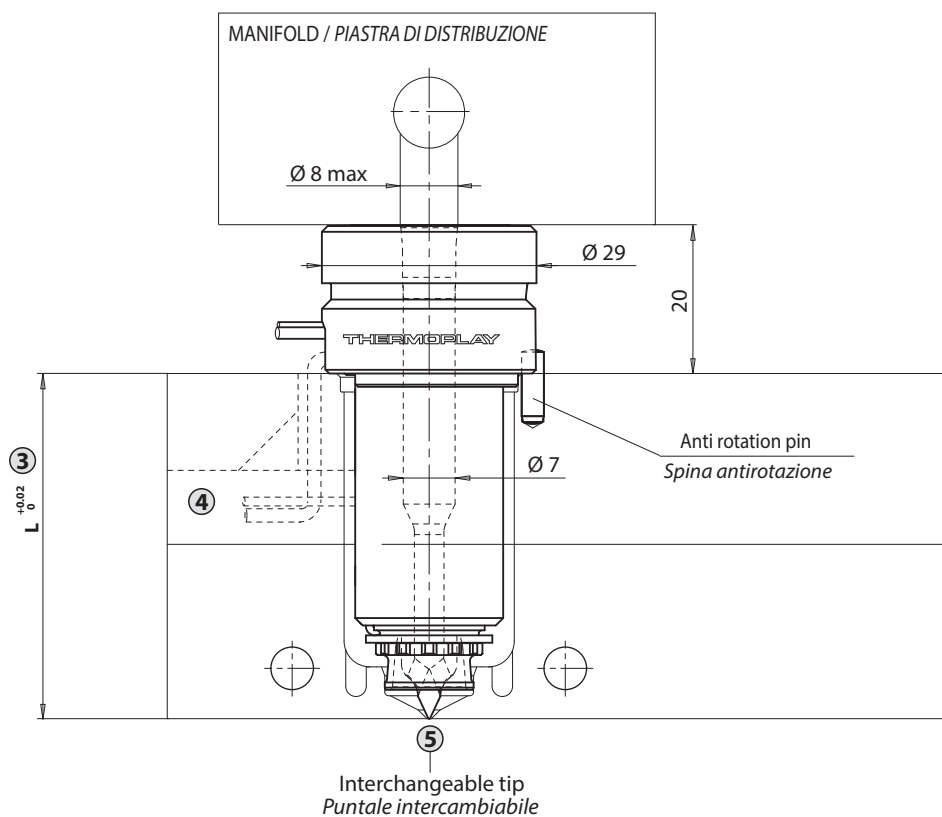
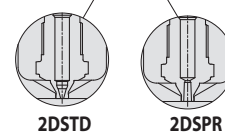




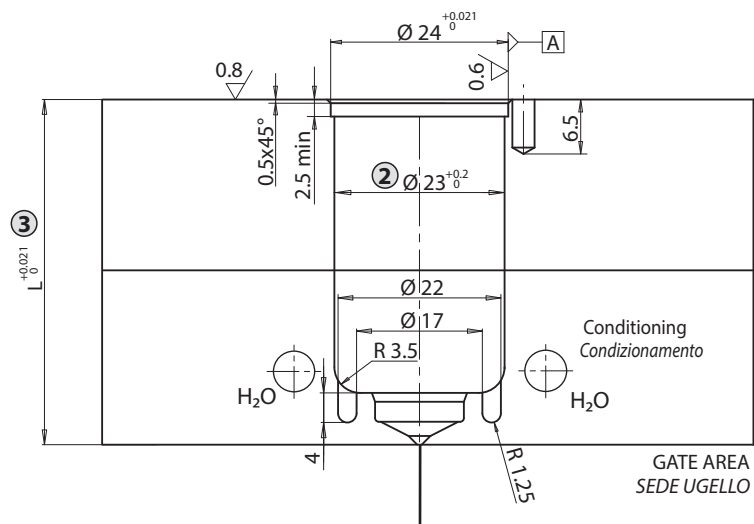
Ordering code example / Esempio d'ordine ugello:

①	②	③	④	⑤	⑥
T	F	23	136	A	2P-JG

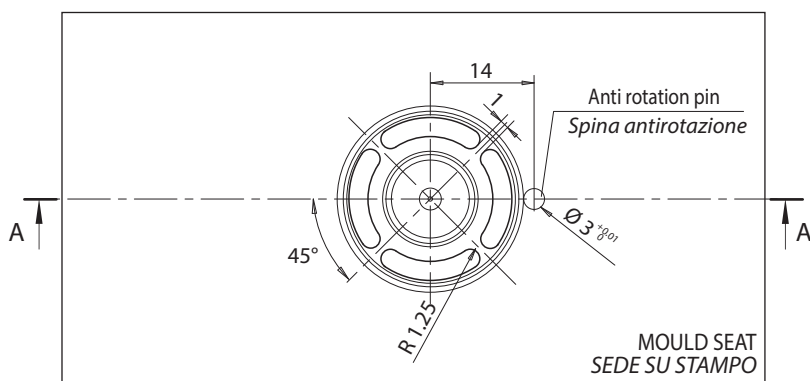
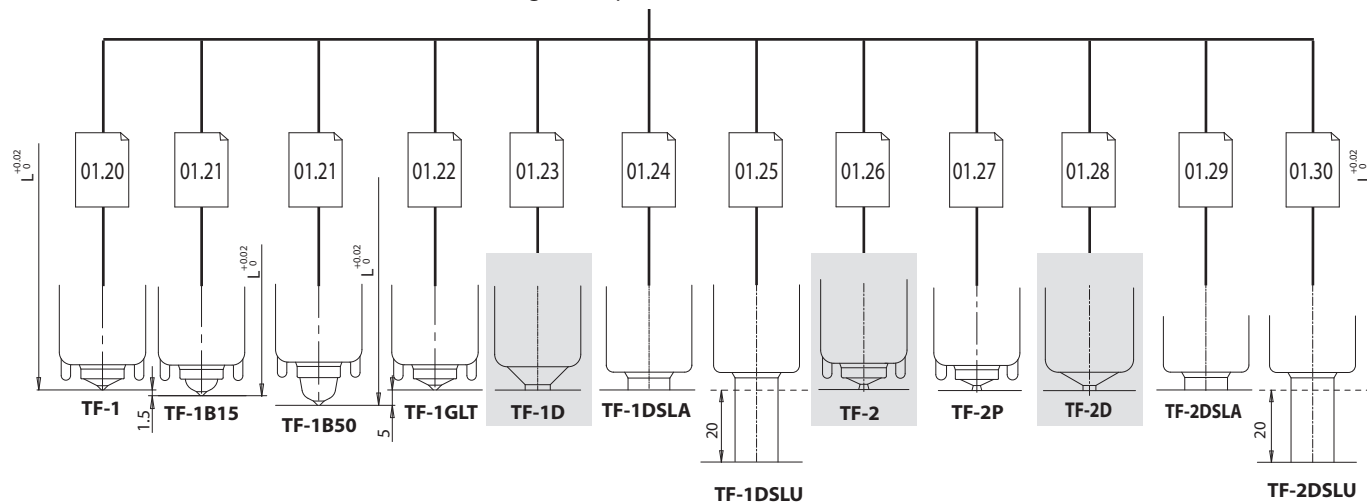
- ① Nozzle type / Tipo ugello (TF)
- ② 23 Diameter nozzle / Diametro ugello (Ø23)
- ③ 136 Nozzle length / Lunghezza ugello (L=136)
- ④ A Top heater cable exit / Uscita cavi in alto (A)
- ⑤ 2P Tip type / Tipo puntale (2P)
- ⑥ JG Thermocouple type / Tipo termocoppia (grounded / a massa)



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.

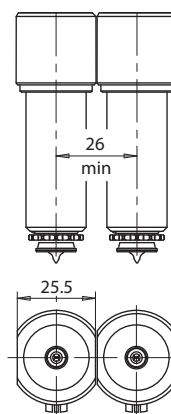


⑤ Interchangeable tips / Puntali intercambiabili



Minimum distance between nozzle centres is available on request

Minimo interasse fattibile in esecuzione speciale.



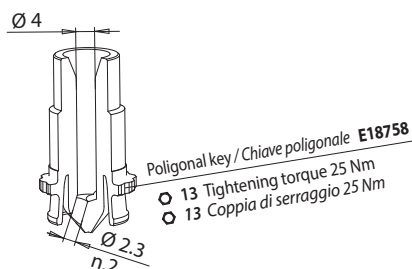


TYPE TF-2P: The nozzle can be used to inject onto the sprue directly in the cavity, however leaving marked evidence of the injection point. The nozzle is particularly suitable for moulding materials that tend to drool. It is suitable for moulding materials with abrasive fillers.

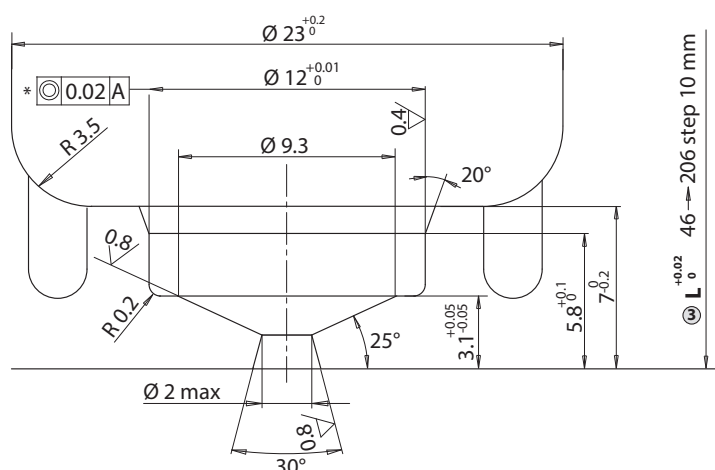
TIPO TF-2P: L'ugello può essere utilizzato per iniettare su materozza oppure direttamente in cavità lasciando però un testimone marcato del punto di iniezione. L'ugello è particolarmente adatto allo stampaggio di materiali che tendono a colare. E' idoneo allo stampaggio di materiali con cariche abrasive.

TIP GROUP / GRUPPO PUNTALE

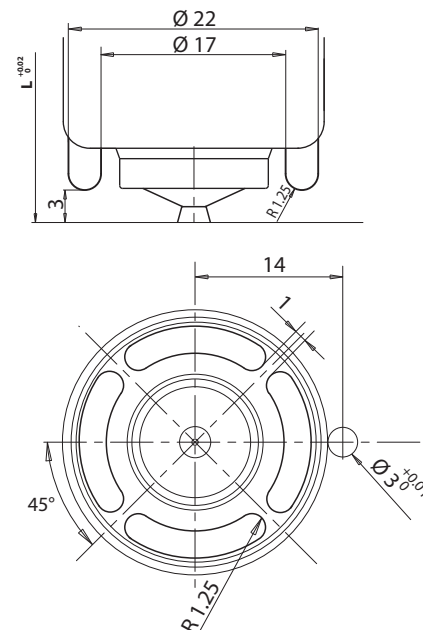
Type / Tipo	Code / Codice
TF23-2P	E20586



GATE AREA / SEDE UGELLO



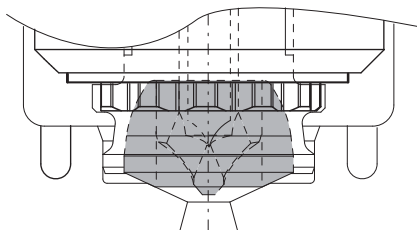
* [A] Ref. page 01.19 for sliding nozzle - page 09.06 for single nozzle
pagina 01.19 per ugelli a rasamento - pagina 09.06 per monougelli



COLOUR CHANGE BUSHING / BOCCOLA CAMBIO COLORE

Available upon request / Disponibile su richiesta

Type / Tipo	Code / Codice
TF-2P	E20860



Injection nozzle on sprue indicated for materials that are difficult to mould.
Ugello ad iniezione su materozza indicato per materiali difficili da stampare.

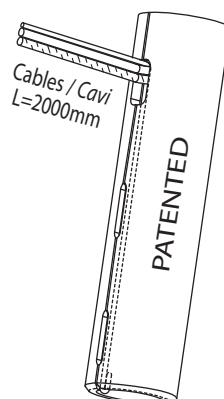
Cooling bushings on pages 14.08 / Boccole portaugelli condizionate pag. 14.08



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

- A ^④

③ L	L 1B15	L 1B50	Heater code Codice resistenza	Watt	Thermocouple Codice termocoppia ugello ⑥	
					grounded - a massa .. - JG	insulated - isolata .. - JU
46	47.5	51	E20630	200	E05302-TF23	E16027-TF23
56	57.5	61	E20631	200		
66	67.5	71	E20632	200		
76	77.5	81	E20633	200		
86	87.5	91	E20634	200	E05504-TF23	E16029-TF23
96	97.5	101	E20635	250		
106	107.5	111	E20636	250		
116	117.5	121	E20637	250		
126	127.5	131	E20638	250	E05917-TF23	E16030-TF23
136	137.5	141	E20639	270		
146	147.5	151	E20640	270		
156	157.5	161	E20641	300		
166	167.5	171	E20642	300	E05913-TF23	E16031-TF23
176	177.5	181	E20643	350		
186	187.5	191	E20644	350		
196	197.5	201	E20645	350		
206	207.5	211	E20646	350		

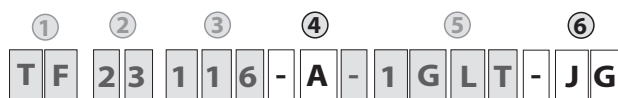


Suffix Suffisso	⑥	Description Descrizione
.. - JG		Grounded thermocouple with J type calibration Termocoppia ugello a massa tipo J
.. - JU		Insulated thermocouple with J type calibration Termocoppia ugello isolata tipo J

cables / Cavi	HEATER / RESISTENZA	
	White / Red-White Bianco / Rosso-Bianco	230 V
	THERMOCOUPLE TERMOCOPPIA	
	Red / Rosso	TC+
	Blue / Blu	TC-

Description / Descrizione	Code / Codice
Stop thermocouple ring Anello ferma termocoppia	E18744

Ordering code example / Esempio d'ordine ugello:



- ① TF nozzle type / Tipo ugello (TF)
- ② 23 Nozzle diameter / Diametro ugello (Ø23)
- ③ 116 nozzle length / Lunghezza ugello (L=116)
- ④ A Top heater cable exit / Uscita cavi in alto (A)
- ⑤ 1GLT Tip type / Tipo puntale (1GLT)
- ⑥ JG Thermocouple type / Tipo termocoppia (grounded / a massa)

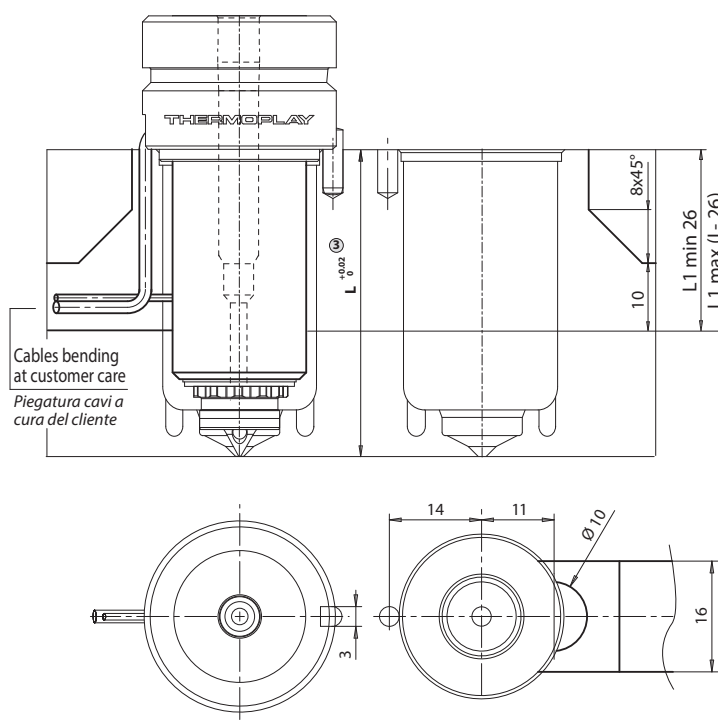
If not specified, grounded thermocouple are supplied / Se non specificato fornito termocoppia a massa

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

- M ^④

Available only for types / Solo disponibile nei tipi: 1/1GLT/1B

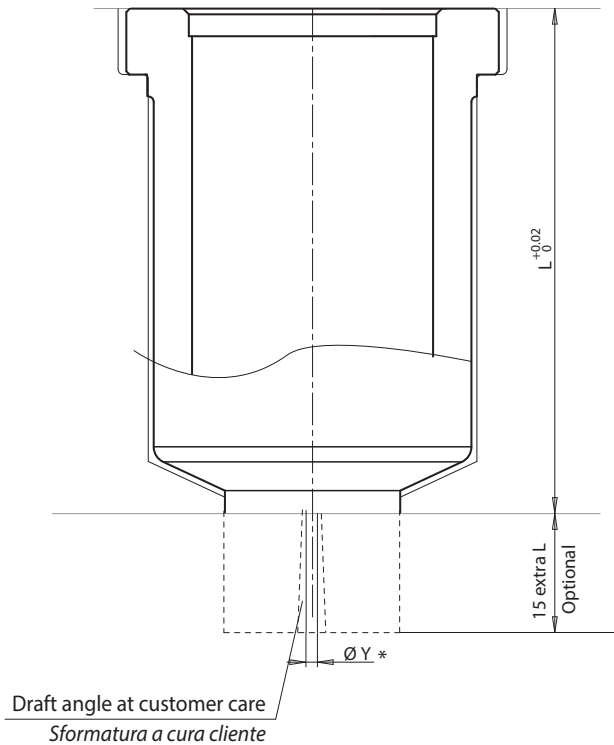
The wire exit in the middle of the nozzle body allows the heater replacement with the mould assembled to the press machine.
L'uscita dei cavi in posizione intermedia lungo il corpo ugello permette la sostituzione della resistenza con lo stampo montato sulla pressa.



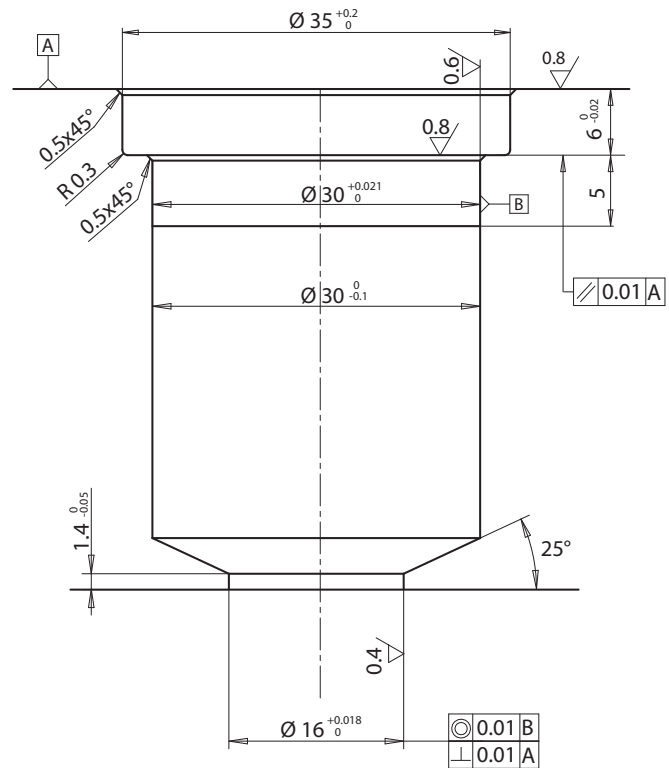
③ L	L 1B15	L 1B50	Heater code Codice resistenza	Watt	Thermocouple Codice termocoppia ugello ⑥	
					grounded - a massa .. - JG	insulated - isolata .. - JU
66	67.5	71	E21107	200	E05302-TF23	E16027-TF23
76	77.5	81	E21108	200		
86	87.5	91	E21109	200		
96	97.5	101	E21110	250		
106	107.5	111	E21111	250	E05504-TF23	E16029-TF23
116	117.5	121	E21112	250		
126	127.5	131	E21113	250		
136	137.5	141	E21114	270		
146	147.5	151	E21115	270	E05917-TF23	E16030-TF23
156	157.5	161	E21116	300		
166	167.5	171	E21117	300		
176	177.5	181	E21118	350		
186	187.5	191	E21119	350	E05913-TF23	E16031-TF23
196	197.5	201	E21120	350		
206	207.5	211	E21121	350		



BUSHING / BOCCOLA



BUSHING CUTOUT / SEDE BOCCOLA

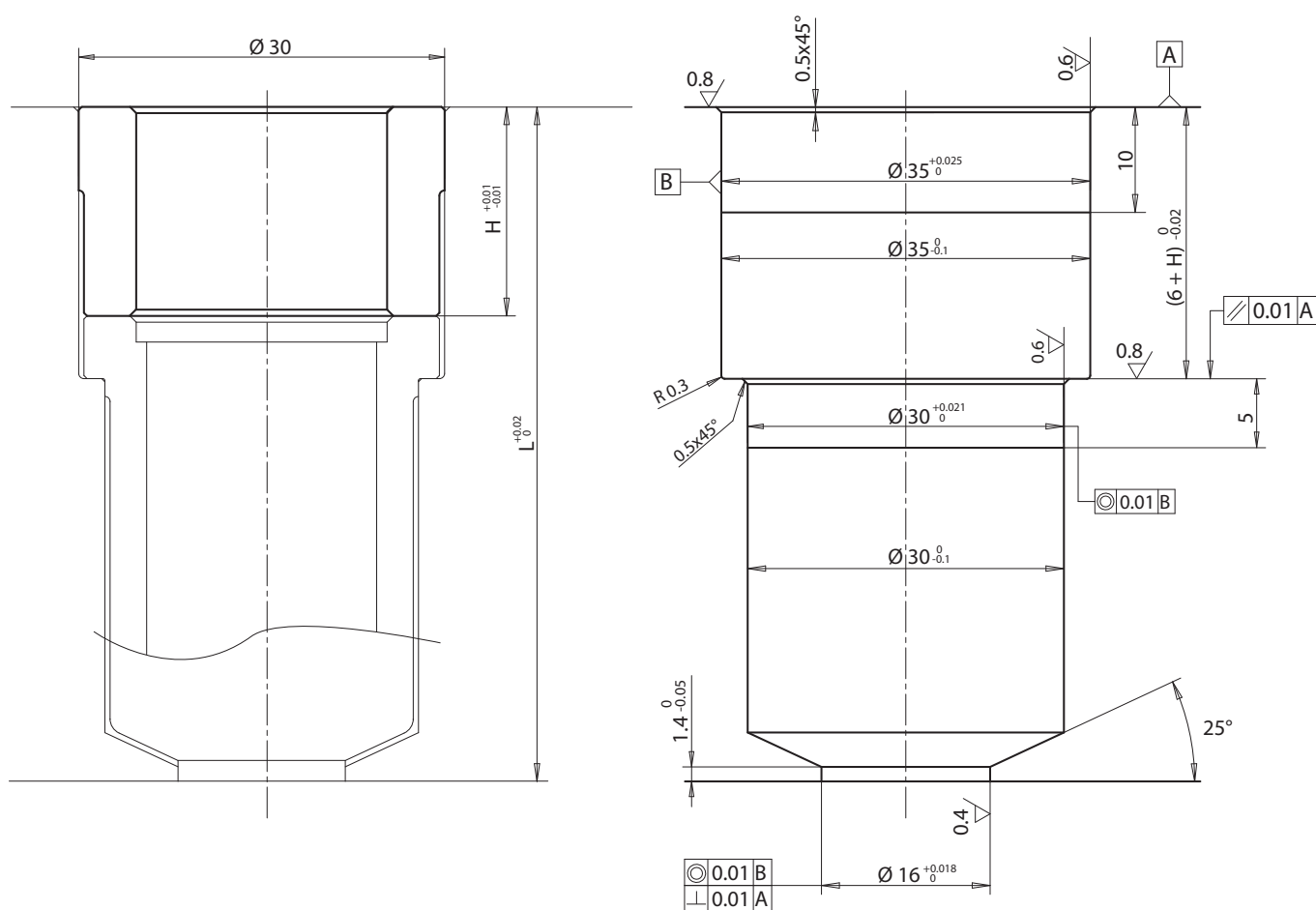


TF Ø 23	Nozzle Ø Ø Ugello	TYPE TIPO	Ø Y *	L	TF Ø 23 sliding nozzles/ugelli a rasamento		TF6 Ø 23 single nozzles/monougelli	
					code/codice	code/codice extra L	code/codice	code/codice extra L
23		1 - 1GLT	0.6 >> 1.2	46	E09611/ØY	E09612/ØY	E16950/ØY	E16952/ØY
				56	E09563/ØY	E09564/ØY	E16951/ØY	E16953/ØY
		2 - 2P	1.0 >> 2.0	46	E09824/ØY	E09826/ØY	E16954/ØY	E16956/ØY
				56	E09825/ØY	E09827/ØY	E16955/ØY	E16957/ØY
		3 cylindrical 3 cilindrico	0.8 >> 2	46	E09841/ØY	E09843/ØY	MOØ23 - pag. 11.20	
				56	E09842/ØY	E09844/ØY		
		3conical 3 conico	0.8 >> 1.3	46	E09922/ØY	E09924/ØY		
				56	E09923/ØY	E09925/ØY		

TD Ø 22	Nozzle Ø Ø Ugello	TYPE TIPO	Ø Y *	L	TD Ø 22 sliding nozzles/ugelli a rasamento		TD6 Ø 22 single nozzles/monougelli	
					code/codice	code/codice extra L	code/codice	code/codice extra L
22		1 - 1GLT	0.6 >> 1.2	36	E17085/ØY	E17087/ØY	E17085/ØY	E17087/ØY
				46	E17086/ØY	E17088/ØY	E17086/ØY	E17088/ØY
		2	1.0 >> 2.0	36	E17772/ØY	E17774/ØY	E17772/ØY	E17774/ØY
				46	E17773/ØY	E17775/ØY	E17773/ØY	E17775/ØY
		3 cylindrical 3 cilindrico	0.8 >> 1.3	36	E17647/ØY	E17649/ØY	--	--
				46	E17648/ØY	E17650/ØY	--	--
		3conical 3 conico	0.8 >> 1.6	36	E17659/ØY	E17661/ØY	--	--
				46	E17660/ØY	E17662/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

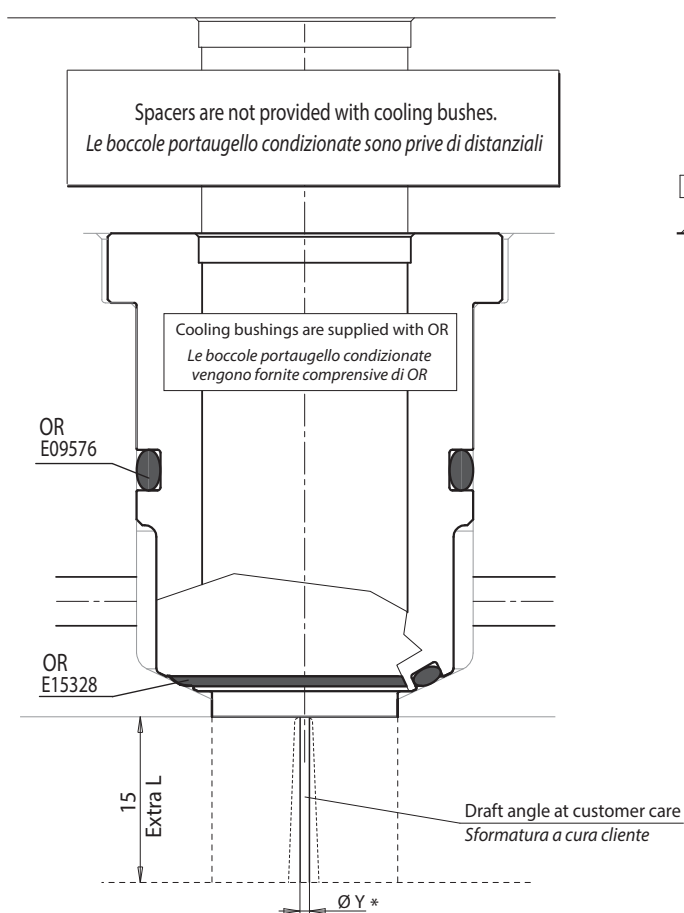


TF Ø 23 sliding nozzles ugelli a rasamento	E09579	E09580	E09581	E09582	E09583	E09584	E09585	E09586	E09587	E09588	E09589	E09590	E09591	E09592	E09593	E09643
H	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
TF6 Ø 23 single nozzles monougelli	E16966	E16967	E16968	E16969	E16970	E16971	E16972	E16973	E16974	E16975	E16976	E16977	E16978	E16979	E16980	E16981

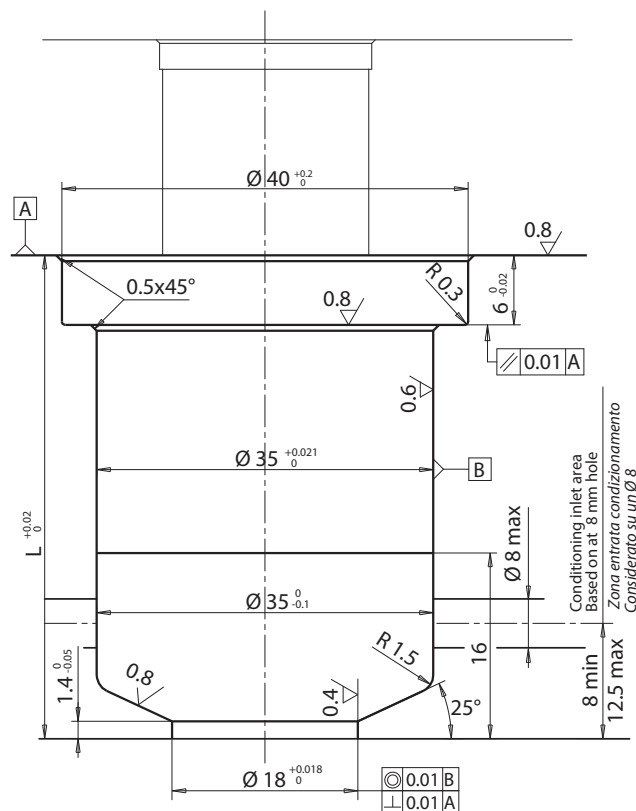
TD Ø 22 sliding nozzles <i>ugelli a rasamento</i>	E17561	E06826	E17562	E06827	E07086	E17563	E17564	E17565	E17566	E17567
H	10	20	30	40	50	60	70	80	90	100
TD6 Ø 22 single nozzles <i>monougelli</i>	E17561	E06826	E17562	E06827	E07086	E17563	E17564	E17565	E17566	E17567



BUSHING / BOCCOLA



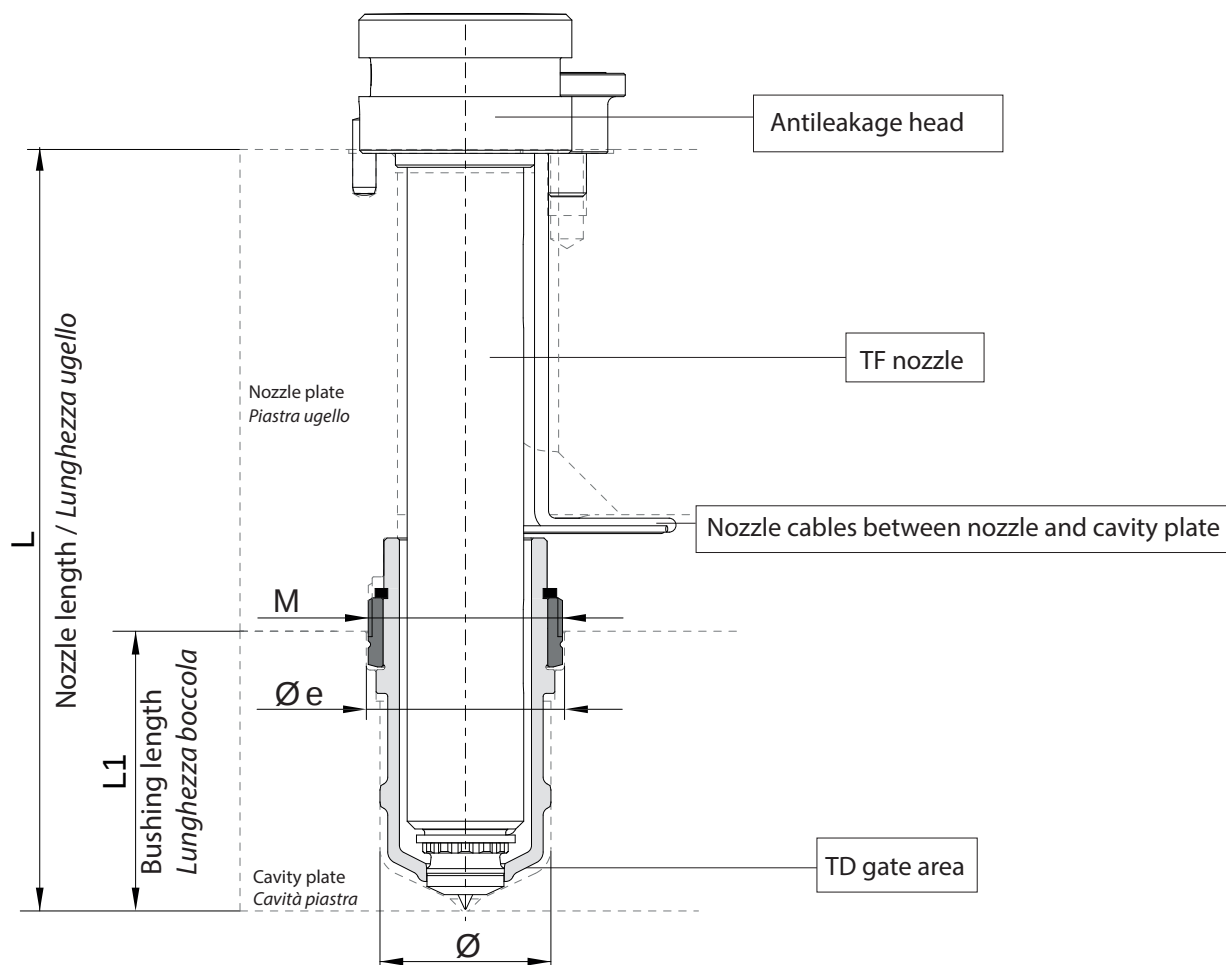
BUSHING CUTOUT / SEDE BOCCOLA



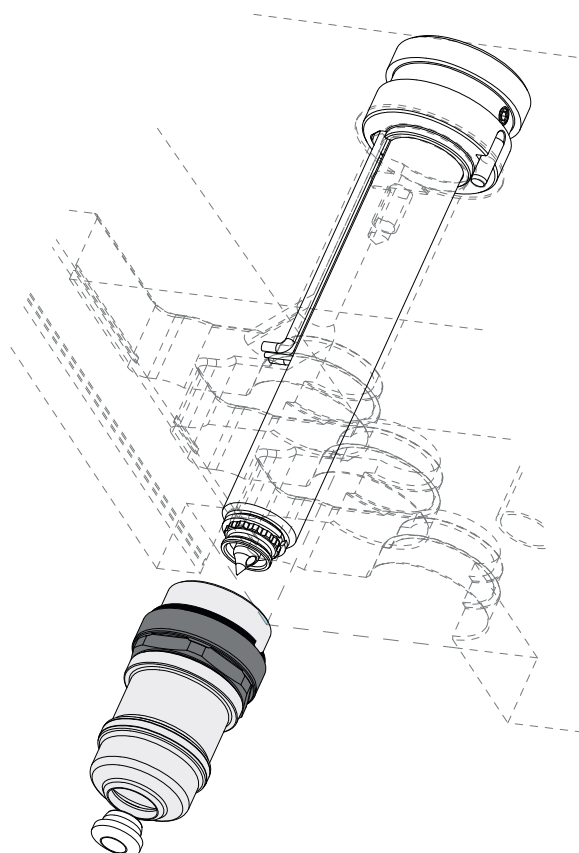
* Thermoplay reserves the right to evaluate the feasibility of the gate diameter with respect to the extra length
Thermoplay si riserva in fase d'ordine di valutare la fattibilità del diametro del foro rispetto all'altezza dell'extralunghezza

TF Ø 23	Nozzle Ø Ugello	TYPE TIPO	Ø Y *	L	TF Ø 23 sliding nozzles/ugelli a rasamento		TF6 Ø 23 single nozzles/monougelli	
					code/codice	code/codice extra L	code/codice	code/codice extra L
					code/codice	code/codice extra L	code/codice	code/codice extra L
TF Ø 23	23	1 - 1GLT	0.6 >> 1.2	46	E09613/ØY	E09614/ØY	E16982/ØY	E16984/ØY
				56	E09572/ØY	E09573/ØY	E16983/ØY	E16985/ØY
		2 - 2P	1.0 >> 2.0	46	E09828/ØY	E09830/ØY	E16986/ØY	E16988/ØY
				56	E09829/ØY	E09831/ØY	E16987/ØY	E16989/ØY
		3 cylindrical 3 cilindrico	0.8 >> 1.8	46	E09845/ØY	E09847/ØY	MOØ23 - pag. 11.21	
				56	E09846/ØY	E09848/ØY		
		3conical 3conico	0.8 >> 2	46	E09930/ØY	E09932/ØY		
				56	E09931/ØY	E09933/ØY		
		1D-3D	--	46	E09702	--	E16998	--
				56	E09703	--	E16999	--
		2D	--	46	E09834	--	E17000	--
				56	E09835	--	E17001	--

TD Ø 22	Nozzle Ø Ugello	TYPE TIPO	Ø Y *	L	TD Ø 22 sliding nozzles/ugelli a rasamento		TD6 Ø 22 single nozzles/monougelli	
					code/codice	code/codice extra L	code/codice	code/codice extra L
					code/codice	code/codice extra L	code/codice	code/codice extra L
TD Ø 22	22	1 - 1GLT	0.6 >> 1.2	36	E17575/ØY	E17577/ØY	E17575/ØY	E17577/ØY
				46	E17576/ØY	E17578/ØY	E17576/ØY	E17578/ØY
		2	1.0 >> 2.0	36	E17788/ØY	E17790/ØY	E17788/ØY	E17790/ØY
				46	E17789/ØY	E17791/ØY	E17789/ØY	E17791/ØY
		3 cylindrical 3 cilindrico	0.8 >> 1.3	36	E17623/ØY	E17625/ØY	--	--
				46	E17624/ØY	E17626/ØY	--	--
		3conical 3conico	0.8 >> 1.6	36	E17635/ØY	E17637/ØY	--	--
				46	E17636/ØY	E17638/ØY	--	--



For nozzle Per ugello	Ø	M	Ø e
TF Ø 14	18	M22	24
TF Ø 17	22	M25	25.5
TF Ø 23	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.*