



Technical drawings of five types of shut-off valves: MO-3, MO-3B, MO-3D, MO-3DSL, and MO-3DSL. Each drawing includes a side view and a top view. The side views show the valve body, handle, and pin. The top views show the internal structure and dimensions. Dimensions include pin length (Lunghezza spillo), diameter (Ø Di), and specific dimensions like 0.2, 0.63, and 20. The drawings are labeled with numbers 11.04 through 11.08. The MO-3D drawing is highlighted with a grey background.

MO-3 (11.04): Cylindrical shut off **G**. Recommended. *Chiusura cilindrica G*. Scelta consigliata.

MO-3B (11.05): Cylindrical shut off **G**. Recommended. *Chiusura cilindrica G*. Scelta consigliata.

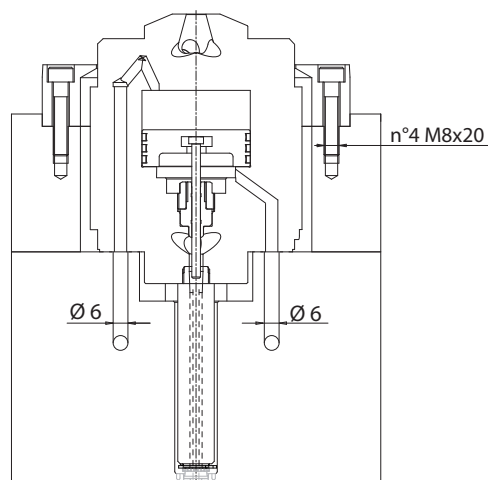
MO-3D (11.06): Conical shut off **N**. Suitable only for HDPE, LDPE, PP, PS. *Chiusura conica N*. Idoneo solo per HDPE, LDPE, PP, PS.

MO-3DSL (11.07): Conical shut off **N**. Suitable only for HDPE, LDPE, PP, PS. *Chiusura conica N*. Idoneo solo per HDPE, LDPE, PP, PS.

MO-3DSL (11.08): Conical shut off **N**. Suitable only for HDPE, LDPE, PP, PS. *Chiusura conica N*. Idoneo solo per HDPE, LDPE, PP, PS.

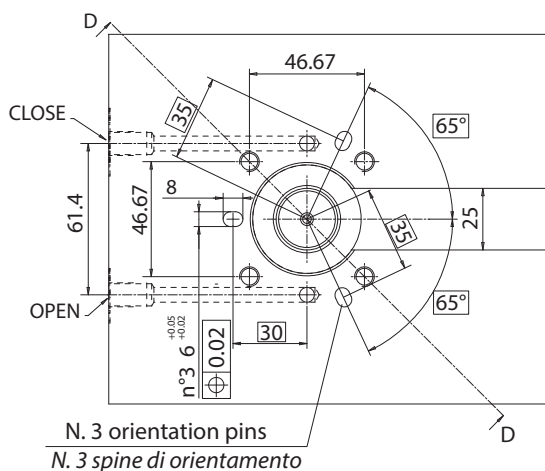
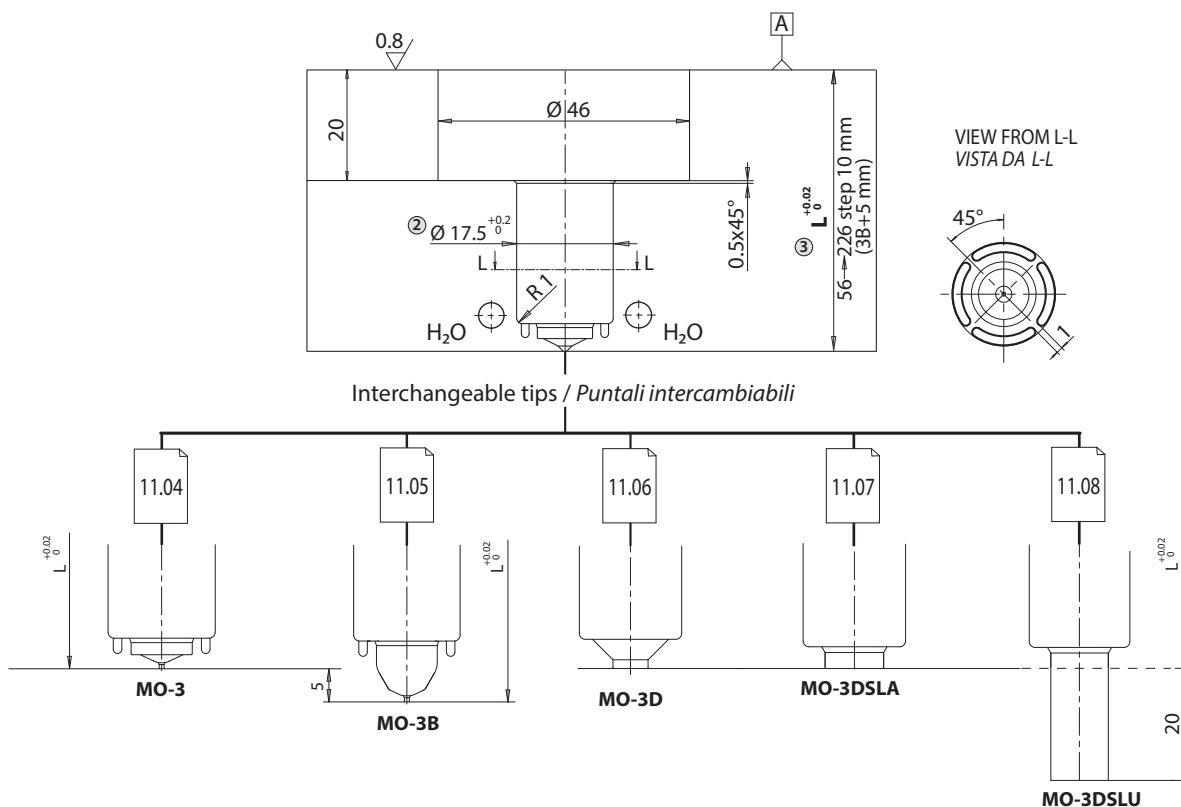
Technical drawing of a circular mechanical part, likely a flange or end plate, showing a top view. The drawing includes the following features and dimensions:

- Outer Diameter:** Indicated by a dimension line and the symbol $\varnothing 6$ at the top left.
- Inner Diameter:** Indicated by a dimension line and the symbol $\varnothing 6$ at the bottom left.
- Section Lines:** Two sets of section lines are shown, labeled **A-A** and **C-C**, indicating the locations of cross-sections A and C.
- Internal Features:** The drawing shows a central hole with a smaller concentric hole inside it. There are also several small circular features (possibly holes or indentations) arranged in a circular pattern around the central hole.
- Dimension Lines:** Various dimension lines are used to specify the radii and diameters of the different features.





NOZZLE SEAT / SEDE UGELLO



Suffix Suffisso ⑦	R
../R000	R 0
../R095	R 9.5
../R100	R 10
../R105	R 10.5
../R110	R 11
../R127	R 12.7
../R130	R 13
../R135	R 13.5
../R150	R 15
../R155	R 15.5
../R160	R 16
../R165	R 16.5
../R195	R 19.5
../R200	R 20
../R210	R 21
../R220	R 22
../R250	R 25
../R300	R 30
../R350	R 35
../R400	R 40
../A070	A 70°
../A090	A 90°
../A120	A 120°

Ordering code example / Esempio d'ordine ugello:

①	②	③		④		⑤		⑥		⑦		⑧									
M	O	1	7	0	8	6	-	3	B	-	N	-	1	3	R	1	9	5	-	J	G

- ① **MO** : Single nozzle with 4 head flow bores (nozzle head) (**MO**) / Tipo monougello con 4 canali di portata nella testa (**MO**)
- MOC** : 1 flowbore (nozzle head) option, optimized for color changes (**MOC**) / Opzione 1 foro nella testa, ottimizzato per cambio colore (**MOC**)
- ② **1 7** : Nozzle Ø (**Ø17-23-32**) / Diametro ugello (**Ø17-23-32**)
- ③ **0 8 6** : Length (**L=86 nozzle lengths: see table**) / Lunghezza ugello (**L=86 lunghezze ugelli: vedi tabella**)
- ④ **3 B** : Tip type / Tipo puntale (**Ø17-23-32 3-B-3D-3DSLA-3DSLU**)
- ⑤ **N** : Closure type (**N conical - G cylindrical**) / Tipo chiusura (**N conica - G cilindrica**)
- ⑥ **1 3** : Closing ØDi (**1.3 mm; range: see table**) / Diametro chiusura ØDi (**1.3 mm; range: vedi tabella**)
- ⑦ **R 1 9 5** : Radius (**R=19.5**) / Raggio testa (**R=19.5**)
- ⑧ **J G** : Thermocouple type (**JG grounded - JU insulated**) / Tipo termocoppia (**JG a massa - JU isolata**)

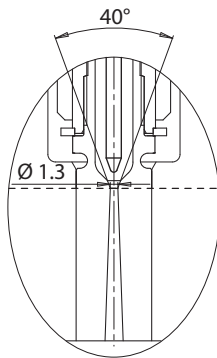


TYPE MO-3DSLÜ: The valve gate nozzle TF is suitable for moulding parts where an optimum gate aesthetics is required. It is also suitable for moulding materials with abrasive fillers. Unlike from the MO-3 nozzle type the sealing area of the nozzle seat can be easily machined on the cavity side. With respect to the MO-3D, the tip has been strengthened to allow the execution of larger sprues. With the respect to the MO-3DSLÄ nozzle, the tip is longer and can be shaped to follow the profile of the moulded part. The circular witness mark of the tip will remain on the moulded part.

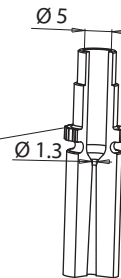
TIPO MO-3DSLÜ: Ugello TF per l'iniezione con gruppo otturazione idoneo allo stampaggio di particolari dove è richiesto un ottimo aspetto estetico del punto di iniezione. E' idoneo anche allo stampaggio di materiali con cariche abrasive. A differenza dell'ugello MO-3 la lavorazione della matrice per la tenuta dell'ugello può essere eseguita dal lato cavità stampo. Rispetto all'ugello MO-3D il puntale è stato irrobustito per permettere l'esecuzione di materozze con dimensioni maggiori. Rispetto all'ugello MO-3DSLÄ ha una lunghezza maggiore del puntale che può essere sagomata per seguire il profilo del particolare stampato. Sul particolare stampato rimarrà il segno circolare del puntale.

TIP GROUP / GRUPPO PUNTALE

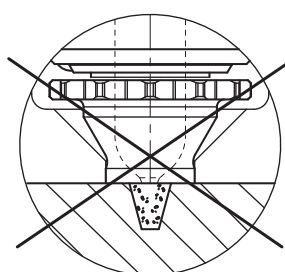
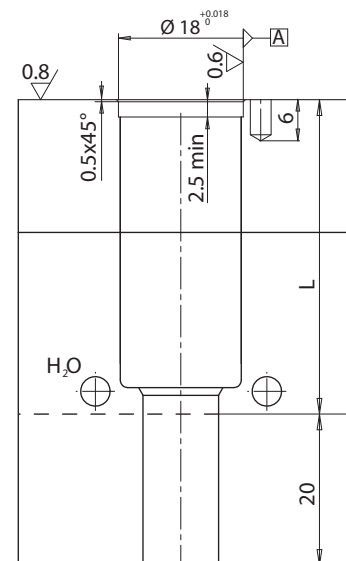
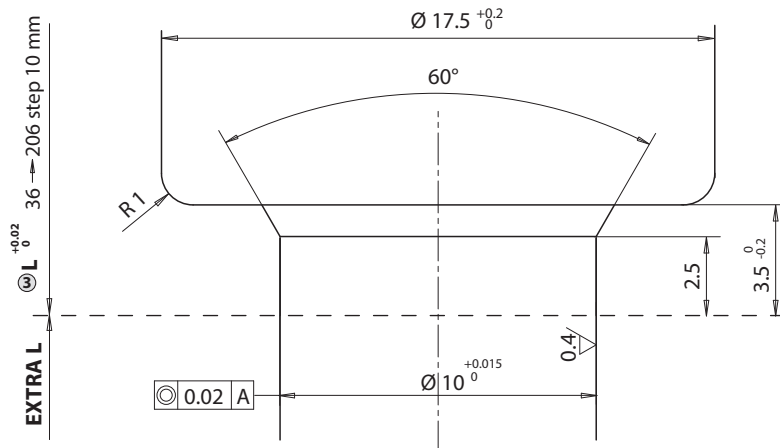
⑤ Type / Tipo	Code / Codice
MO-3DSLÜ	E19911



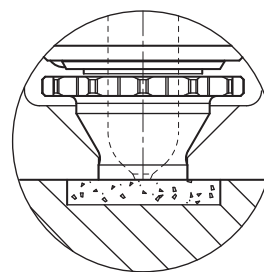
Poligonal key / Chiave poligonale E18762
 ○ 10 Tightening torque 18 Nm
 ○ 10 Coppia di serraggio 18 Nm



GATE AREA / SEDE UGELLO

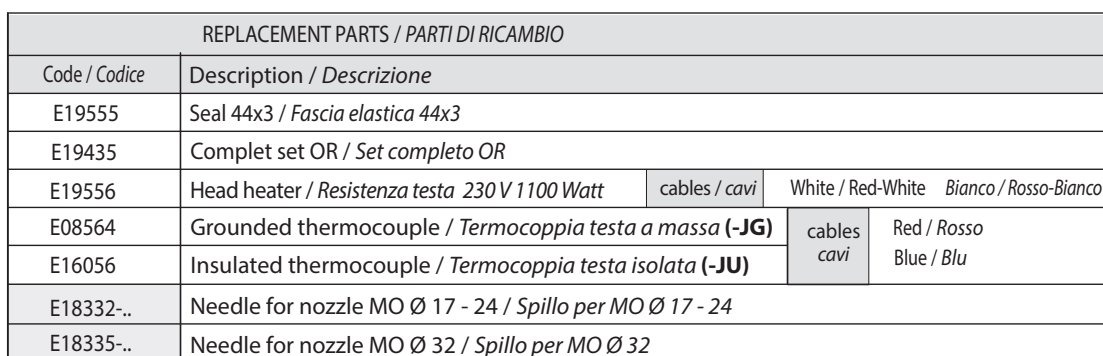


NO
NO



YES
SI

The nozzle MUST NOT come in contact with the mould moving half.
 L'ugello in fase di esercizio non deve andare in battuta sull'acciaio della parte mobile dello stampo.



			(11)		(12)				(13)			(14)			(15)
E18014	M	O	1	7	0	8	6	-	3	B	-	N	-	1	3

- SPARE PARTS MO / RICAMBI MO**



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

Description / Descrizione	Code Codice
Standard stop thermocouple ring <i>Anello ferma termocoppia standard</i>	E18771
Stop thermocouple ring for seat Ø17 <i>Anello ferma termocoppia per sede ugello Ø17</i>	E19837

L	③ L Type 3BT Tipo 3BT	Heater code Codice resistenza	Watt	Thermocouple Codice termocoppia ugello ⑧	
				grounded - a massa .. - JG	insulated - isolata .. - JU
56	61	E09394	200	E05302-F17	E16027-F17
66	71	E09395	200		
76	81	E09310	200		
86	91	E09311	200		
96	101	E09312	200		
106	111	E09313	200	E05504-F17	E16029-F17
116	121	E09314	200		
126	131	E09315	200		
136	141	E09316	200		
146	151	E09317	200		
156	161	E09318	220	E05917-F17	E16030-F17
166	171	E09319	220		
176	181	E09320	220		
186	191	E09321	220		
196	201	E09322	235		
206	211	E09323	235	E05913-F17	E16031-F17
216	221	E09324	235		
226	231	E09325	235		