

Technical drawing showing five types of shut-off valves (MO-3, MO-3B, MO-3D, MO-3DSL, MO-3DSLU) and their corresponding internal components (G, N, D) for different materials (HDPE, LDPE, PP, PS).

The valves are categorized into three groups based on their internal structure:

- Cylindrical shut off G** (Recommended): MO-3, MO-3B, MO-3D.
- Conical shut off N** (Suitable only for HDPE, LDPE, PP, PS): MO-3DSL.
- Conical shut off D** (Suitable only for HDPE, LDPE, PP, PS): MO-3DSLU.

The drawing includes dimensions for pin length, pin diameter, and valve body diameter.

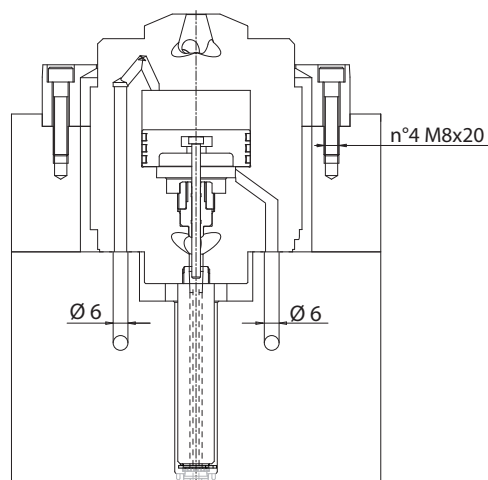
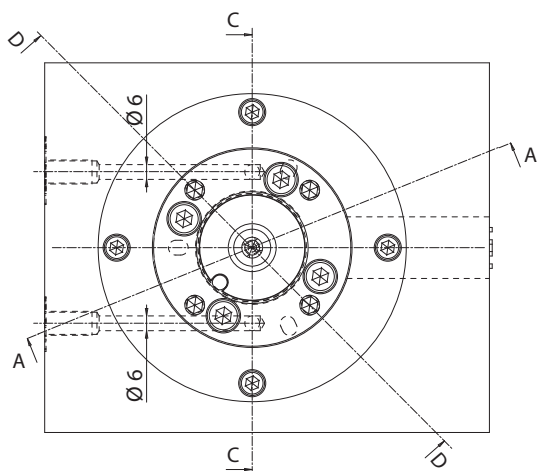
Legend:

- G**: Cylindrical shut off (Recommended)
- N**: Conical shut off (Suitable only for HDPE, LDPE, PP, PS)
- D**: Conical shut off (Suitable only for HDPE, LDPE, PP, PS)

Material Selection:

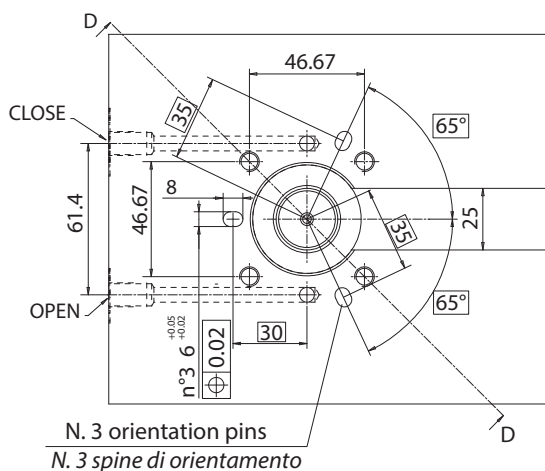
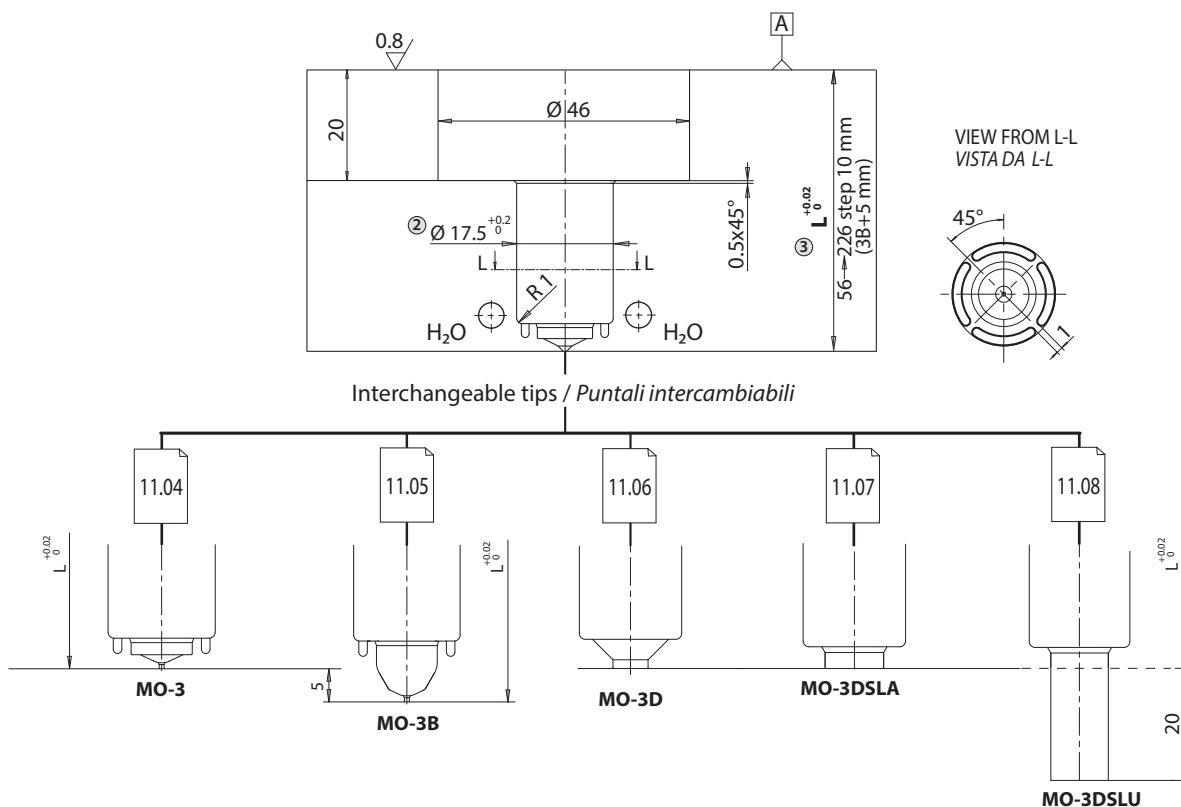
- G**: Recommended for all materials (HDPE, LDPE, PP, PS).
- N**: Suitable only for HDPE, LDPE, PP, PS.
- D**: Suitable only for HDPE, LDPE, PP, PS.

Edition 03/2020 - Edizione 03/2020





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**)

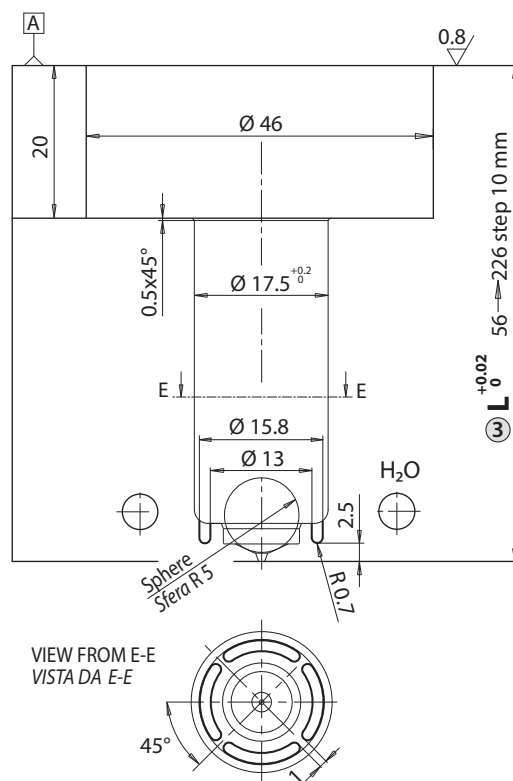
TIPO MO-3: Ugello TF per l'iniezione con gruppo otturazione idoneo allo stampaggio di particolari dove è richiesto un ottimo aspetto estetico del punto di iniezione. E' idoneo anche allo stampaggio di materiali con cariche abrasive.

GATE AREA / SEDE UGELLO

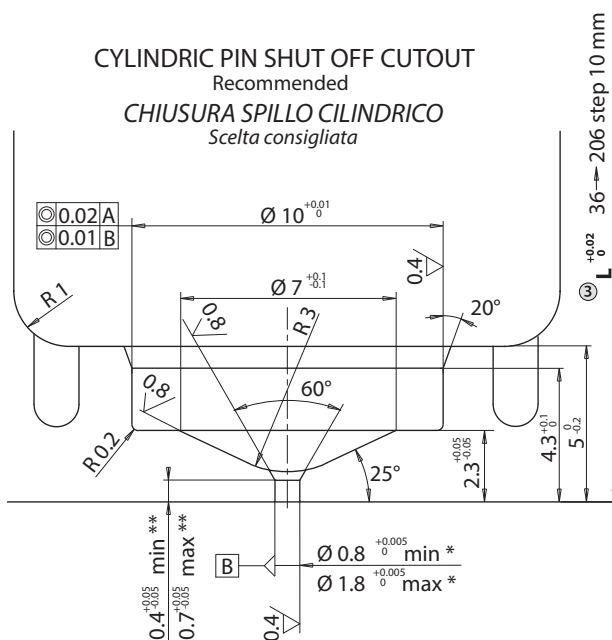
E18757
 Bi-hex wrench **Ø10**
 Tightening torque 18 Nm
 Chiave poligonale **Ø10**
 Coppia serraggio 18 Nm

Available upon request / *Disponibile su richiesta*

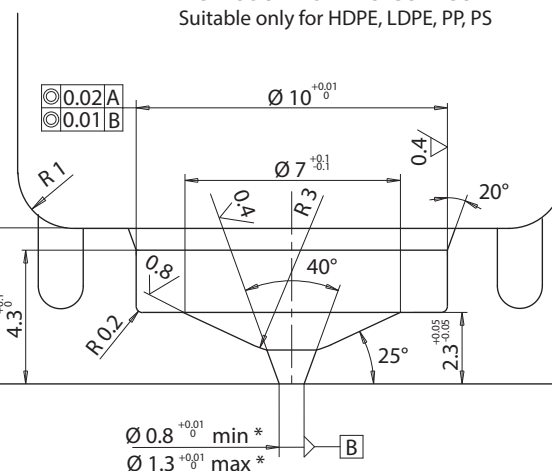
A technical drawing of a mechanical assembly, likely a valve or pump component, shown in a cross-sectional view. The assembly consists of several layers: a top flange, a middle section with a series of vertical slots or teeth, and a bottom section with a central shaft. The drawing is labeled with 'a' and 'b' at the bottom, indicating different views or sections. The central shaft is labeled 'c'.



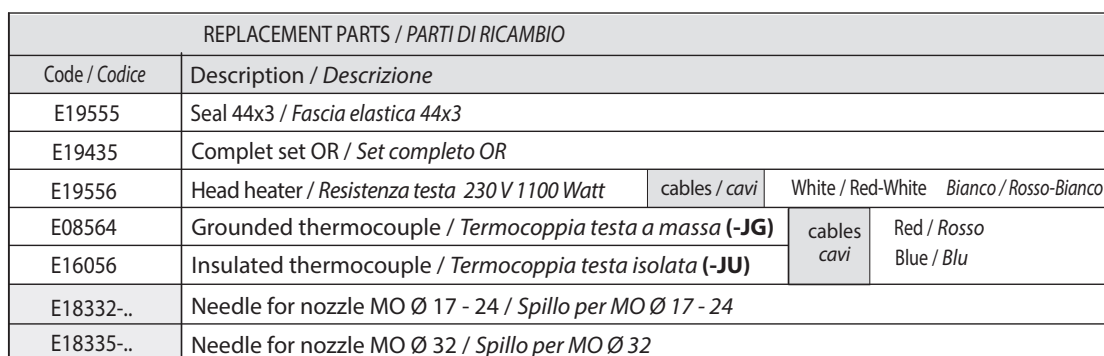
Scelta consigliata



Suitable only for HDPE, LDPE, PP, PS



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



		(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		

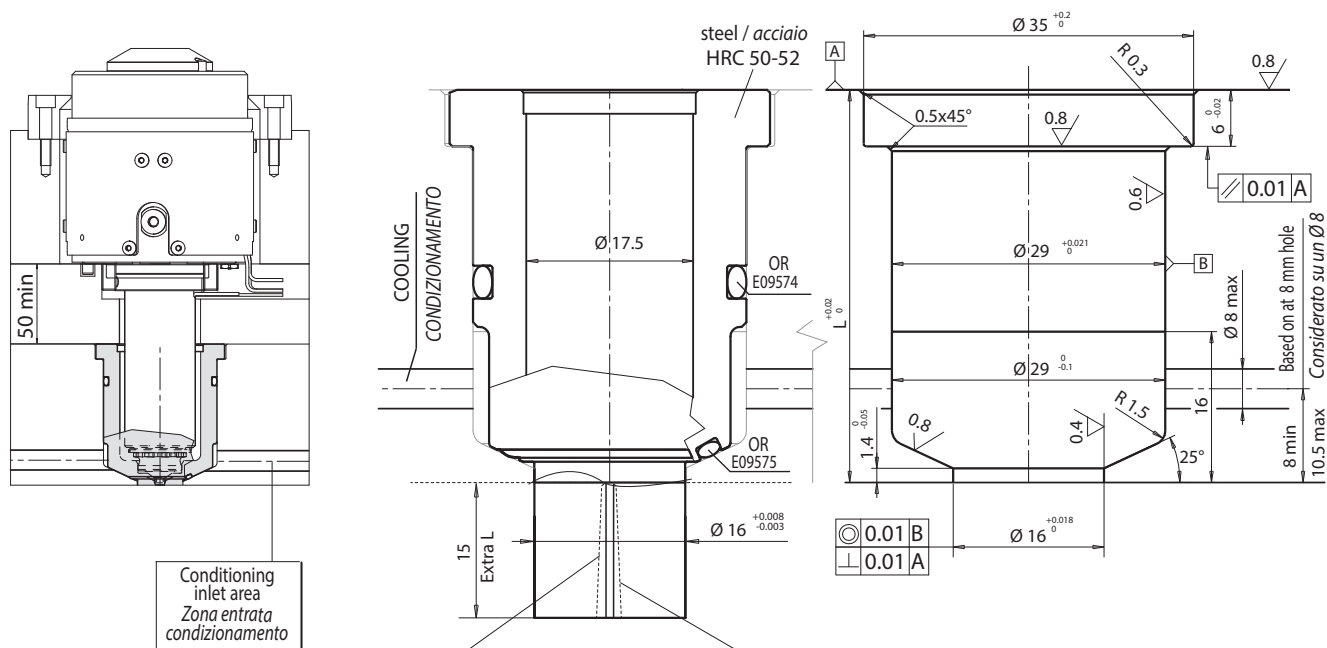


- COOLING BUSHING
- BOCCOLA CONDIZIONATA

Execution upon request / Eseguita su richiesta

- COOLING BUSHING SEAT
- SEDE BOCCOLA CONDIZIONATA

- COOLING BUSHING WITH EXTRA LENGTH
- BOCCOLA CONDIZIONATA CON EXTRALUNGHEZZA



EXECUTION UPON REQUEST:
THERMOPLAY RESERVES THE RIGHT TO EVALUATE THE FEASIBILITY OF THE GATE DIAMETER WITH RESPECT TO THE EXTRA LENGTH.

ESECUZIONE SU RICHIESTA:
THERMOPLAY SI RISERVA IN FASE D'ORDINE DI VALUTARE LA FATTIBILITÀ DEL DIAMETRO DEL FORO RISPETTO ALL'ALTEZZA DELL'EXTRALUNGHEZZA

DRAFT ANGLE IS AT CUSTOMERS CHARGE
SFOMATURA A CURA DEL CLIENTE

- INJECTION DIAMETER Ø Y
- DIAMETRO DI INIEZIONE Ø Y

Suffix Suffisso	3T cilindric cilindrico	3T conical conico
Ø Y		
08	0.8	0.8
09	0.9	0.9
10	1.0	1.0
11	1.1	1.1
12	1.2	1.2
13	1.3	1.3
14	1.4	--
15	1.5	--
16	1.6	--
17	1.7	--
18	1.8	--

	Type Tipo	Code/suffix Codice/suffisso	L	Type Tipo	Code/suffix Codice/suffisso	L+Extra L
3	CYLINDRIC CILINDRICO	E09690/ØY	36		E09692/ØY	36+15
		E09691/ØY	46		E09693/ØY	46+15
	CONIC CONICO	E09918/ØY	36		E09920/ØY	36+15
		E09919/ØY	46		E09921/ØY	46+15
3D		E09700	36		--	--
		E09701	46		--	--

Ordering code example:

E09690/09 = Bushing for nozzles type 3; Bushing for nozzle total length (L) 36 mm, without extra length and with injection hole 0.9 mm.

Esempio d'ordine:

E09690/09 = Boccia portaugello condizionata per ugelli tipo 3; altezza totale (L) 36 mm, senza extralunghezza e con foro d'iniezione Ø 0.9 mm.

Spacers are not provided with cooling bushes.
Available lengths are 36 and 46 as mentioned above.
Le boccole portaugello condizionate sono prive di distanziali e vengono fornite alle lunghezze 36 e 46 mm.