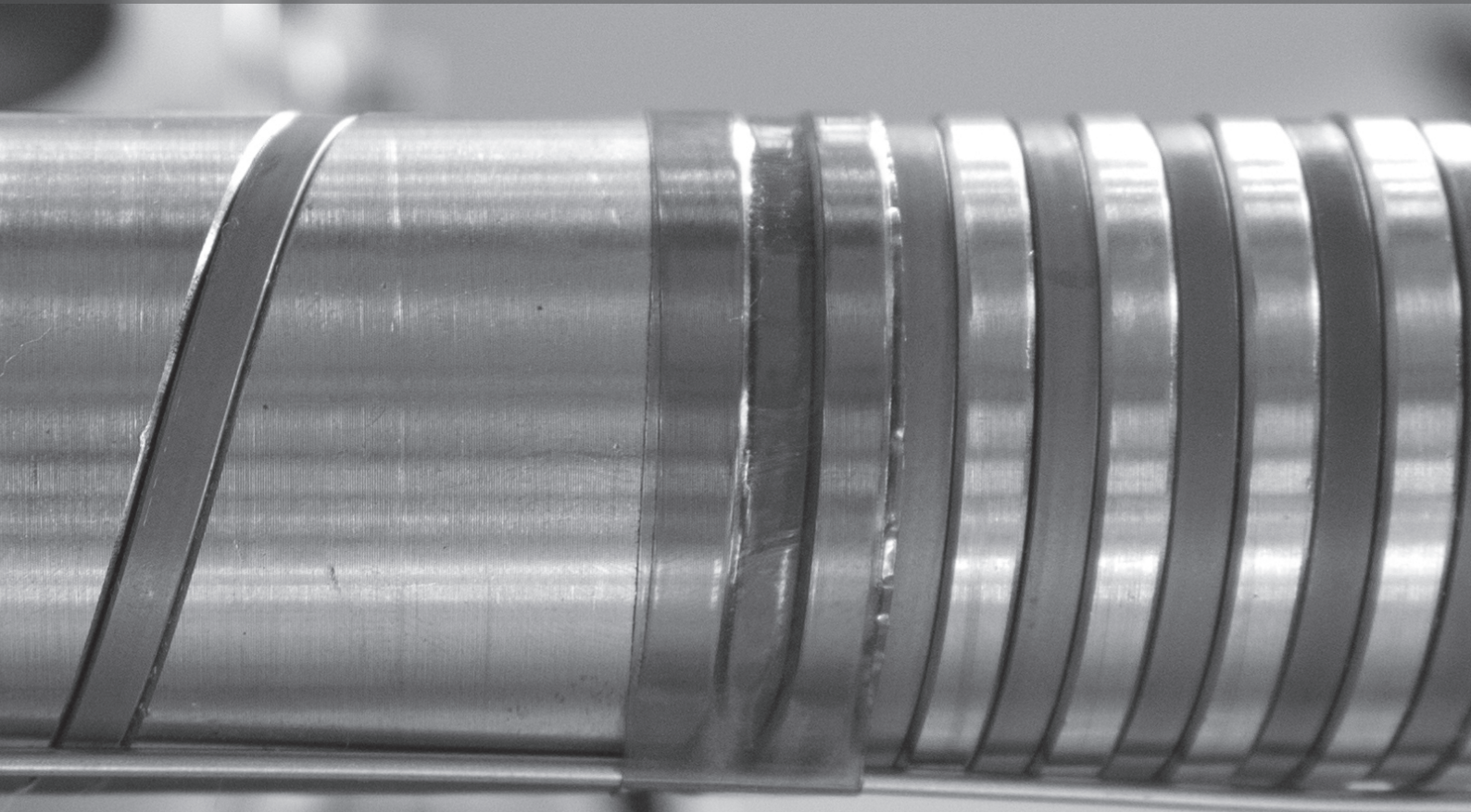


CATALOGO GENERAL / GENERAL CATALOGUE

Sistemas de inyección por canal caliente / Hot Runner System.



2.B Noquillas unitarias / Unitary Nozzles

Sistemas de inyección por canal caliente / Hot Runner System

Avda.del Cid - Políg.Ind. Torrubero 46136 MUSEROS - Valencia - SPAIN Telf. 961452016 / Fax.961452017
www.orymo.eu - info@orymo.eu

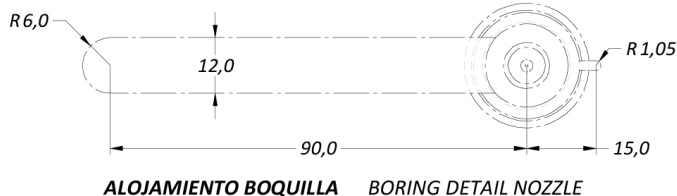
2.Boquillas unitarias / U nitary Nozzles

2.1BOQUILLAS UNITARIAS / UNITARY NOZZLES 49 - 59

2.1 Boquillas MZS 49 - 51

2.2 Boquillas MZN2 52 - 55

2.3 Boquillas MZK5 56- 59

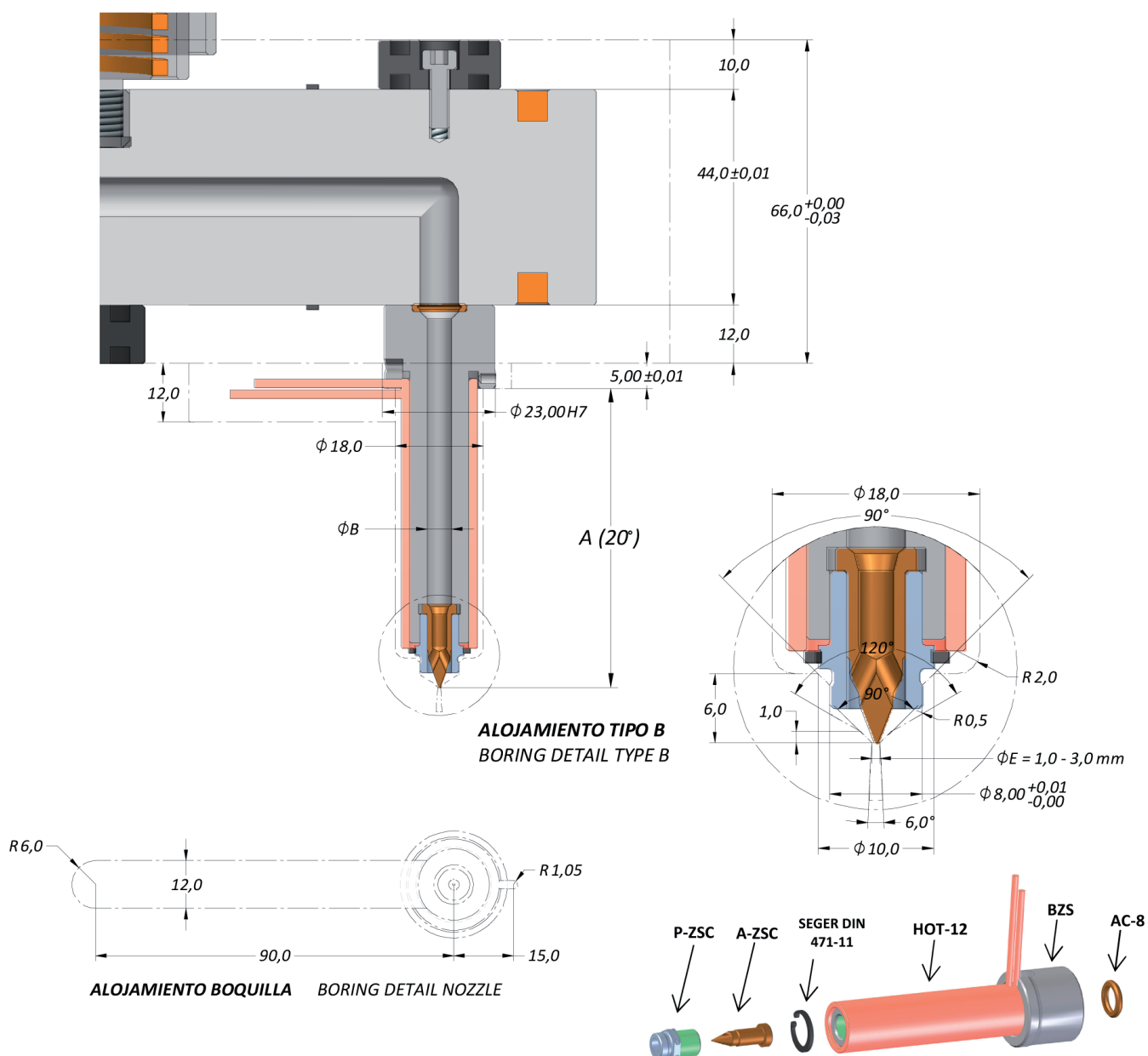


REF. BOQUILLA REF. NOZZLE	ØB
MZSC	4,0
MZS05C	5,0

Par de apriete puntera (Nm): 15 / Torque nozzle tip insert (Nm): 15

IMPORTANTE / IMPORTANT: Aplicar la dilatación térmica / Apply the thermal expansion

$$TE = L_{\text{nozzle}} \times \frac{(\text{Process temperature} - 20^{\circ}\text{C}) \times 12}{1000000}$$



NOZZLE				THERMAL EXPANSION			
SERIE ZS	A (20°)	W	REF.HEATER	200 °	250 °	300 °	330 °
MZSC-040	41,0	225	HOT-12035	0,09	0,11	0,14	0,15
MZSC-060	61,0	250	HOT-12055	0,13	0,17	0,20	0,23
MZSC-080	81,0	300	HOT-12075	0,17	0,22	0,27	0,30
MZSC-100	101,0	400	HOT-12095	0,22	0,28	0,34	0,37
MZSC-120	121,0	450	HOT-12115	0,26	0,33	0,41	0,45

REF.BOQUILLA REF.NOZZLE	ØB
MZSC	4,0
MZS05C	5,0

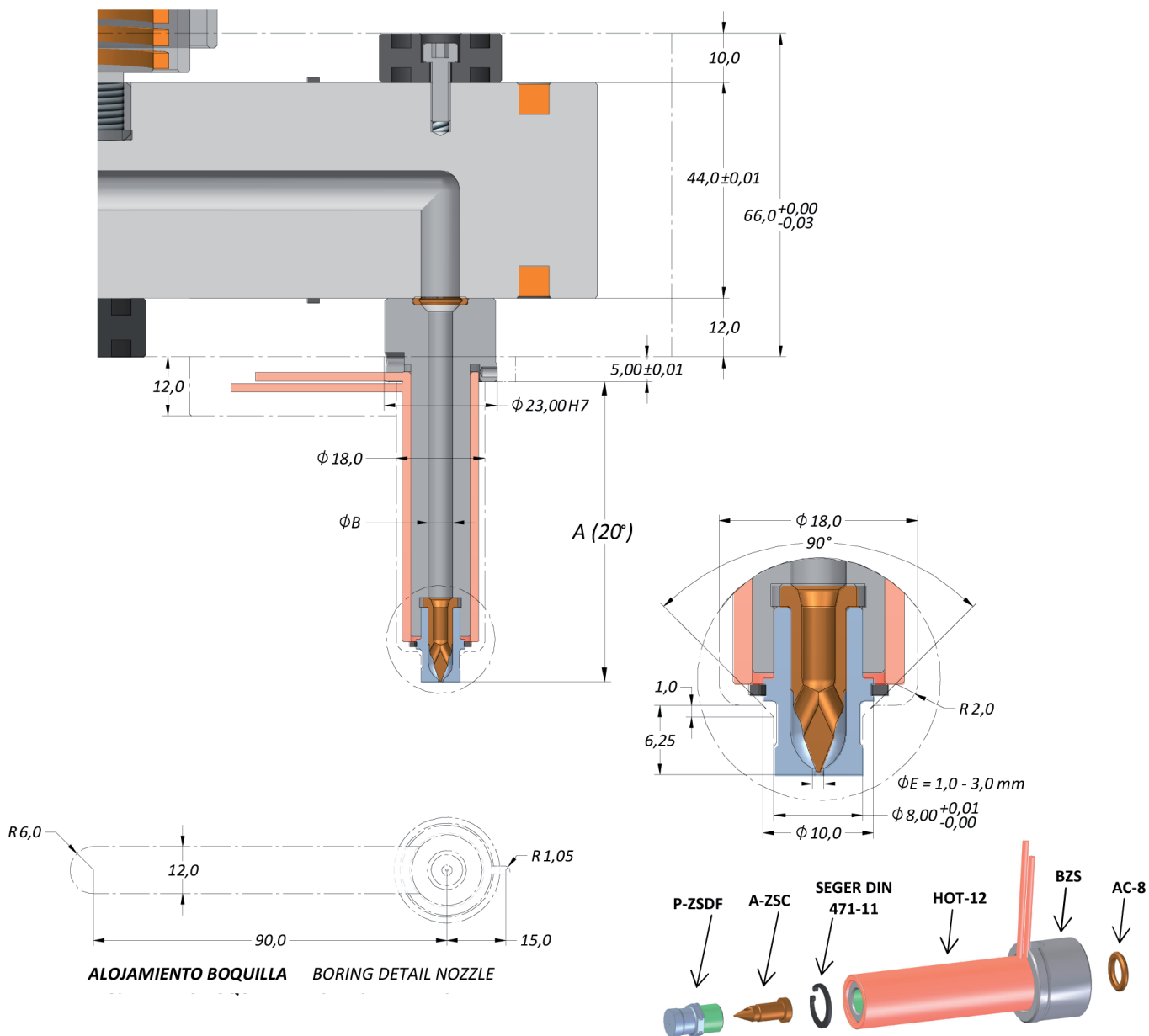
Llave puntera: 9 / Hexagon socket nozzle tip insert: 9

Par de apriete puntera (Nm): 15 / Torque nozzle tip insert (Nm): 15

Para más medidas de bloque consultar pág.61-62 / For more manifold measures see page 61-62

IMPORTANTE / IMPORTANT: Aplicar la dilatación térmica / Apply the thermal expansion

$$TE = L \text{ nozzle} \times \frac{(\text{Process temperature} - 20^\circ\text{C}) \times 12}{1000000}$$

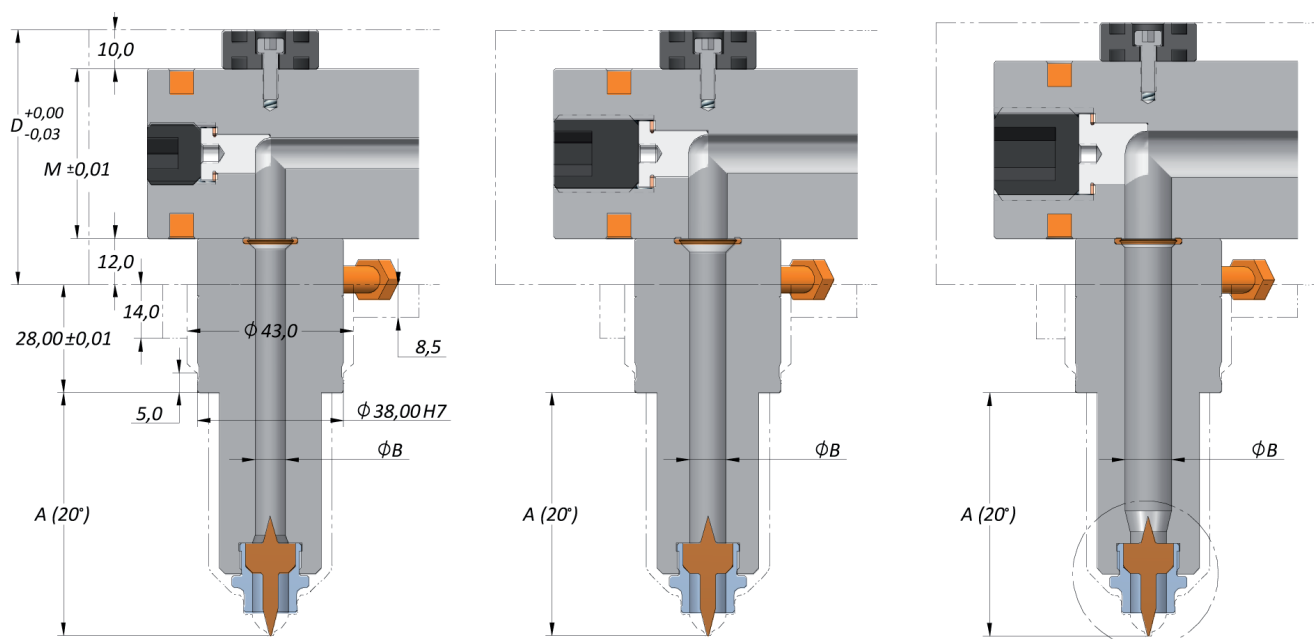


REF.BOQUILLA REF.NOZZLE	ØB
MZSDF	4,0
MZS05DF	5,0

Par de apriete puntera (Nm): 15 / Torque nozzle tip insert (Nm): 15

IMPORTANTE / IMPORTANT: Aplicar la dilatación térmica / Apply the thermal expansion

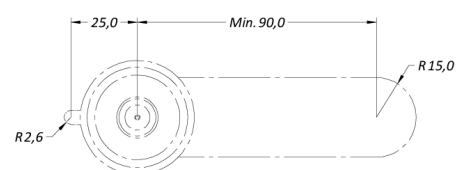
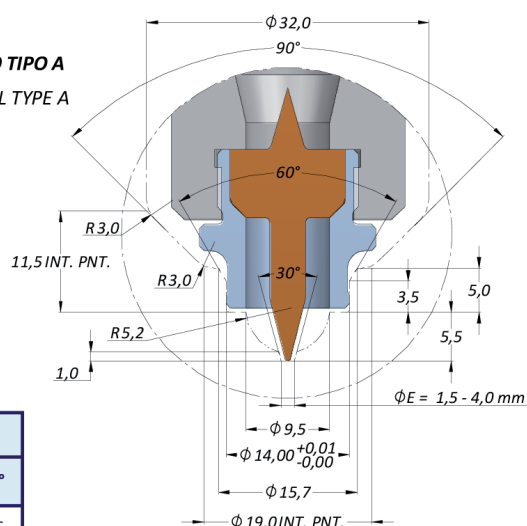
$$TE = L_{\text{nozzle}} \times \frac{(\text{Process temperature} - 20^{\circ}\text{C}) \times 12}{1000000}$$



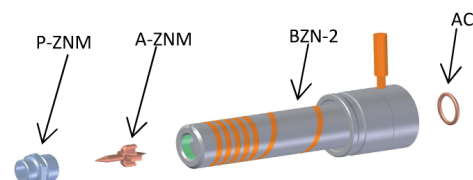
SERIE ESV	ØB	M	D
MZN08M2	8,0	44,0	66,0
MZN10M2	9,5	44,0	66,0
MZN12M2	12,0	46,0	68,0
MZN14M2	14,0	46,0	68,0

NOZZLE				THERMAL EXPANSION			
SERIE ESV	A (20°)	TERMOCOUPLE	W	200°	250°	300°	330°
MZNM2-040	43,0	154DLBLHN	270	0,09	0,12	0,14	0,16
MZNM2-060	63,0	TM-15160	400	0,14	0,17	0,21	0,23
MZNM2-080	83,0	TM-15160	480	0,18	0,23	0,28	0,31
MZNM2-100	103,0	154DOBLHN	480	0,22	0,28	0,35	0,38
MZNM2-120	123,0	TM-15200	535	0,27	0,34	0,41	0,46
MZNM2-140	143,0	TM-15200	660	0,31	0,39	0,48	0,53
MZNM2-160	163,0	TM-15250	800	0,35	0,45	0,55	0,61
MZNM2-200	203,0	TM-15300	800	0,44	0,56	0,68	0,76

ALOJAMIENTO TIPO A
BORING DETAIL TYPE A



ALOJAMIENTO BOQUILLA BORING DETAIL NOZZLE



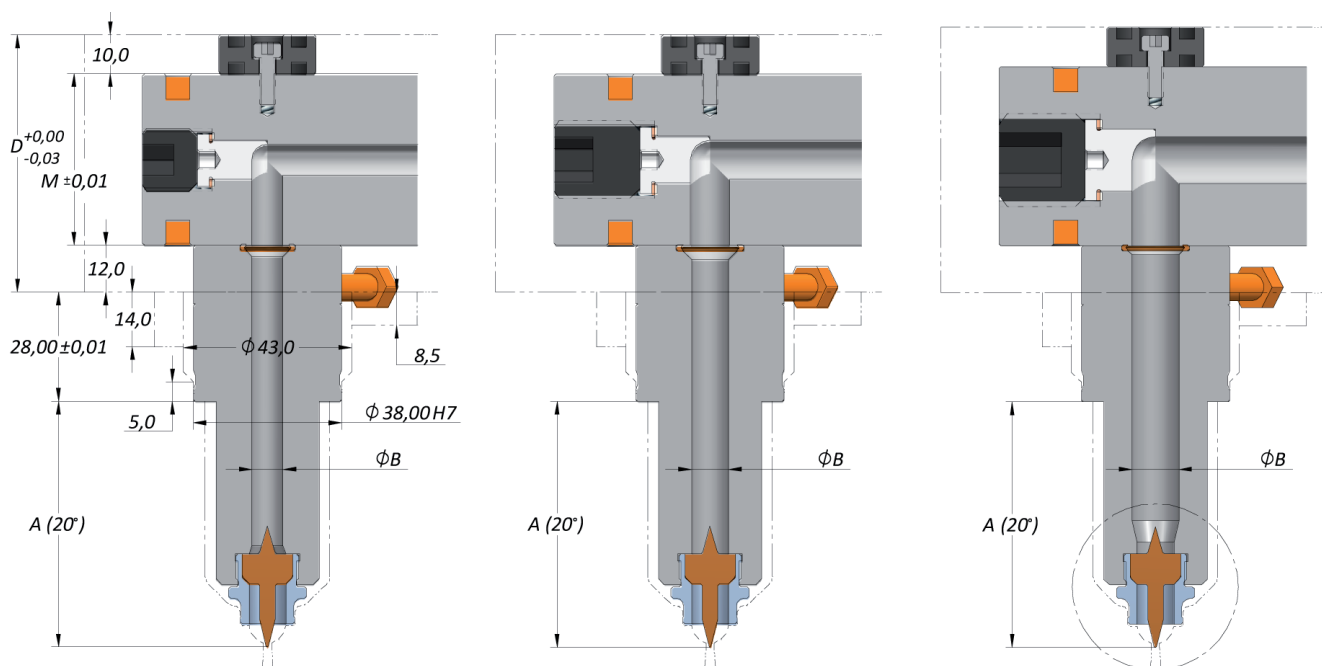
Llave puntera: 18 / Hexagon socket nozzle tip insert: 18

Par de apriete puntera (Nm): 60 / Torque nozzle tip insert (Nm): 60

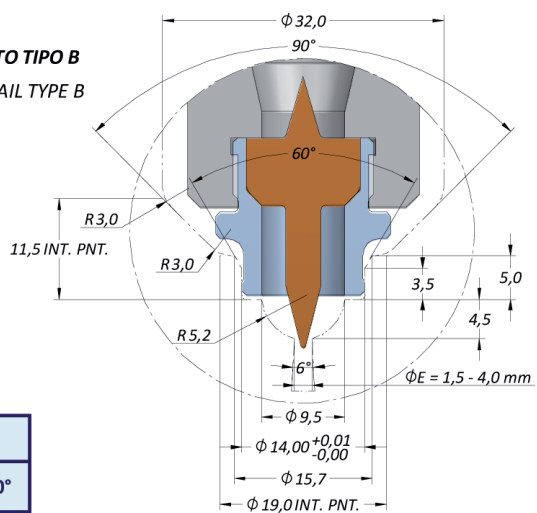
Para más medidas de bloque consultar pág.61-62 / For more manifold measures see page 61-62

IMPORTANTE / IMPORTANT: Aplicar la dilatación térmica / Apply the thermal expansion

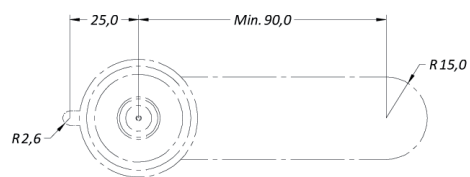
$$TE = L_{\text{nozzle}} \times \frac{(\text{Process temperature} - 20^{\circ}\text{C}) \times 12}{1000000}$$



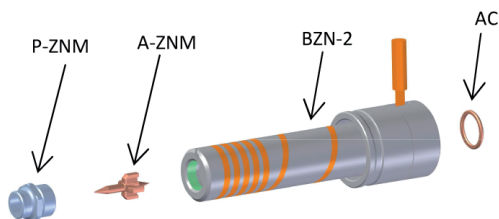
SERIE ESV	ØB	M	D
MZN08M2	8,0	44,0	66,0
MZN10M2	9,5	44,0	66,0
MZN12M2	12,0	46,0	68,0
MZN14M2	14,0	46,0	68,0



NOZZLE				THERMAL EXPANSION			
SERIE ESV	A (20°)	TERMOCOUPLE	W	200°	250°	300°	330°
MZNM2-040	43,0	154DLBLHN	270	0,09	0,12	0,14	0,16
MZNM2-060	63,0	TM-15160	400	0,14	0,17	0,21	0,23
MZNM2-080	83,0	TM-15160	480	0,18	0,23	0,28	0,31
MZNM2-100	103,0	154DOBLHN	480	0,22	0,28	0,35	0,38
MZNM2-120	123,0	TM-15200	535	0,27	0,34	0,41	0,46
MZNM2-140	143,0	TM-15200	660	0,31	0,39	0,48	0,53
MZNM2-160	163,0	TM-15250	800	0,35	0,45	0,55	0,61
MZNM2-200	203,0	TM-15300	800	0,44	0,56	0,68	0,76



ALOJAMIENTO BOQUILLA BORING DETAIL NOZZLE



Llave puntera: 18 / Hexagon socket nozzle tip insert: 18

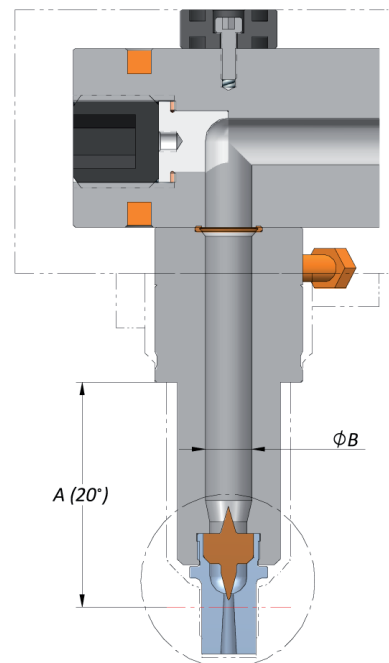
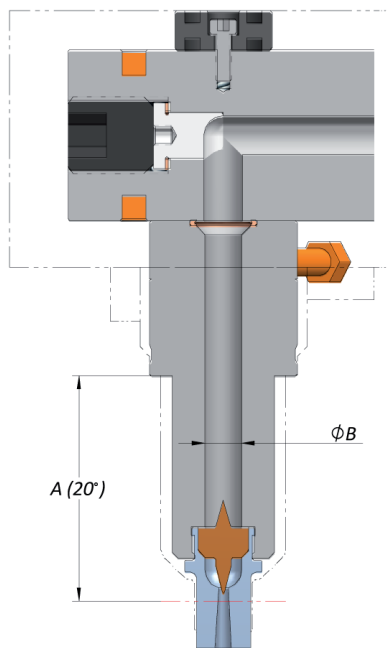
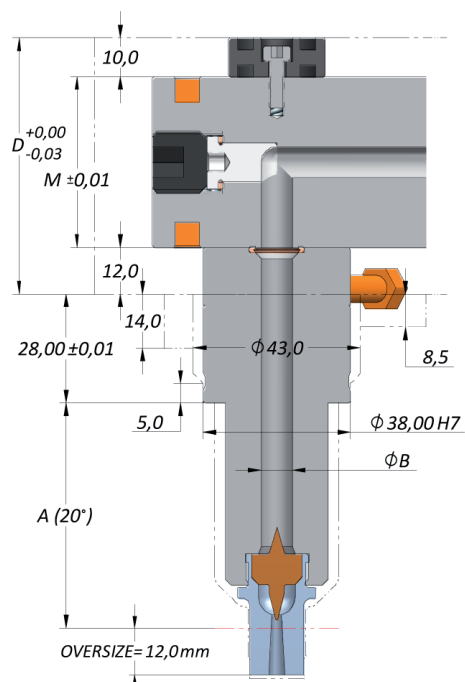
Par de apriete puntera (Nm): 60 / Torque nozzle tip insert (Nm): 60

Para más medidas de bloque consultar pág.61-62 / For more manifold measures see page 61-62

IMPORTANTE / IMPORTANT: Aplicar la dilatación térmica / Apply the thermal expansion

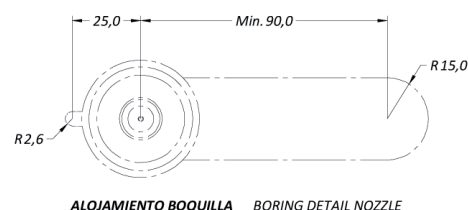
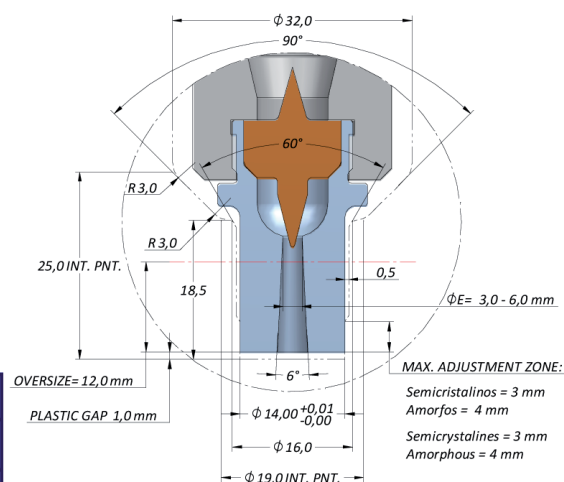
$$TE = L_{\text{nozzle}} \times \frac{(\text{Process temperature} - 20^{\circ}\text{C}) \times 12}{1000000}$$

Sistemas de inyección por canal caliente / Hot Runner System

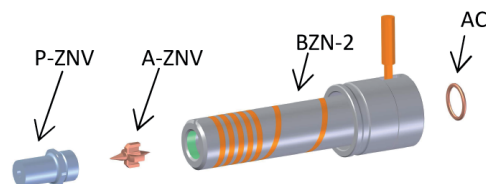


SERIE ESV	ØB	M	D
MZN08V2	8,0	44,0	66,0
MZN10V2	9,5	44,0	66,0
MZN12V2	12,0	46,0	68,0
MZN14V2	14,0	46,0	68,0

NOZZLE				THERMAL EXPANSION			
SERIE ESV	A (20°)	TERMOCOUPLE	W	200°	250°	300°	330°
MZNV2-040	38,0	154DLBLHN	270	0,08	0,10	0,13	0,14
MZNV2-060	58,0	TM-15160	400	0,13	0,16	0,19	0,22
MZNV2-080	78,0	TM-15160	480	0,17	0,22	0,26	0,29
MZNV2-100	98,0	154DOBLHN	480	0,21	0,27	0,33	0,36
MZNV2-120	118,0	TM-15200	535	0,25	0,33	0,40	0,44
MZNV2-140	138,0	TM-15200	660	0,30	0,38	0,46	0,51
MZNV2-160	158,0	TM-15250	800	0,34	0,44	0,53	0,59
MZNV2-200	198,0	TM-15300	800	0,43	0,55	0,67	0,74



ALOJAMIENTO BOQUILLA BORING DETAIL NOZZLE



Llave puntera: 18 / Hexagon socket nozzle tip insert: 18

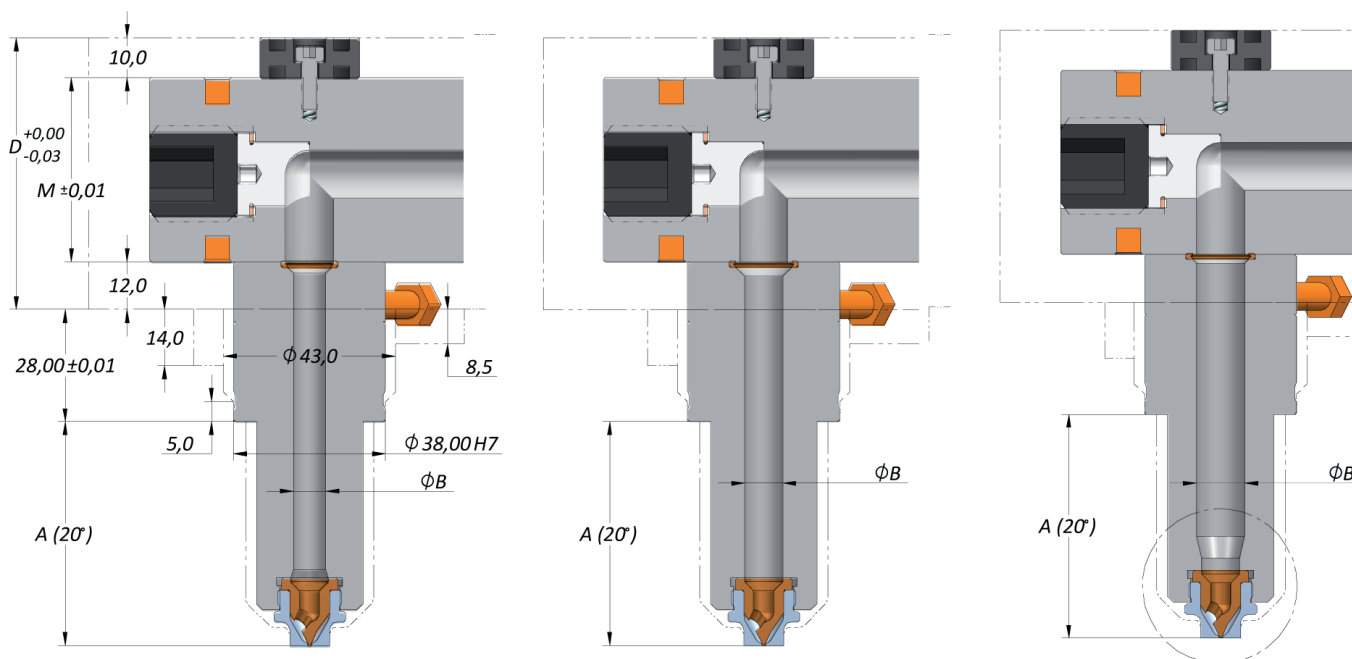
Par de apriete puntera (Nm): 60 / Torque nozzle tip insert (Nm): 60

Para más medidas de bloque consultar pág.61-62 / For more manifold measures see page 61-62

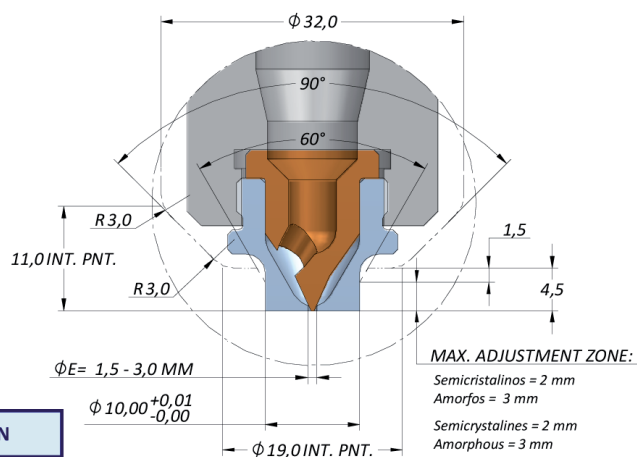
IMPORTANTE / IMPORTANT: Aplicar la dilatación térmica / Apply the thermal expansion

$$TE = L_{\text{nozzle}} \times \frac{(\text{Process temperature} - 20^{\circ}\text{C}) \times 12}{1000000}$$

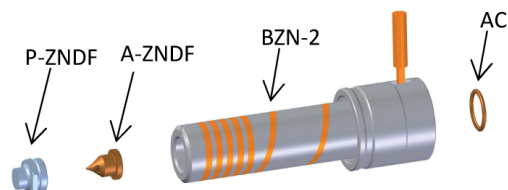
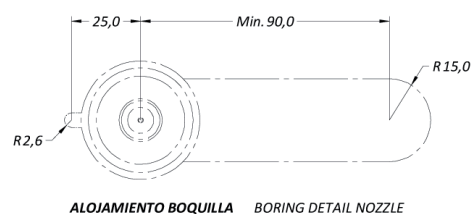
Sistemas de inyección por canal caliente / Hot Runner System



SERIE ESV	ØB	M	D
MZN08DF2	8,0	44,0	66,0
MZN10DF2	9,5	44,0	66,0
MZN12DF2	12,0	46,0	68,0
MZN14DF2	14,0	46,0	68,0



NOZZLE				THERMAL EXPANSION			
SERIE ESV	A (20°)	TERMOCOUPLE	W	200°	250°	300°	330°
MZNDF2-040	36,0	154DLBLHN	270	0,08	0,10	0,12	0,13
MZNDF2-060	56,0	TM-15160	400	0,12	0,15	0,19	0,21
MZNDF2-080	76,0	TM-15160	480	0,16	0,21	0,26	0,28
MZNDF2-100	96,0	154DOBLHN	480	0,21	0,26	0,32	0,36
MZNDF2-120	116,0	TM-15200	535	0,25	0,32	0,39	0,43
MZNDF2-140	136,0	TM-15200	660	0,29	0,38	0,46	0,51
MZNDF2-160	156,0	TM-15250	800	0,34	0,43	0,52	0,58
MZNDF2-200	196,0	TM-15300	800	0,42	0,54	0,66	0,73



Llave puntera: 16 / Hexagon socket nozzle tip insert: 16

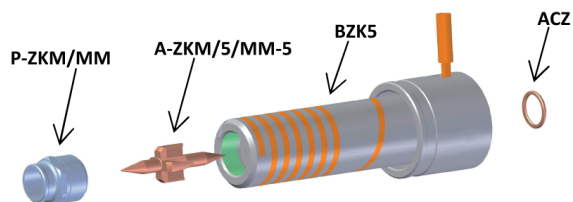
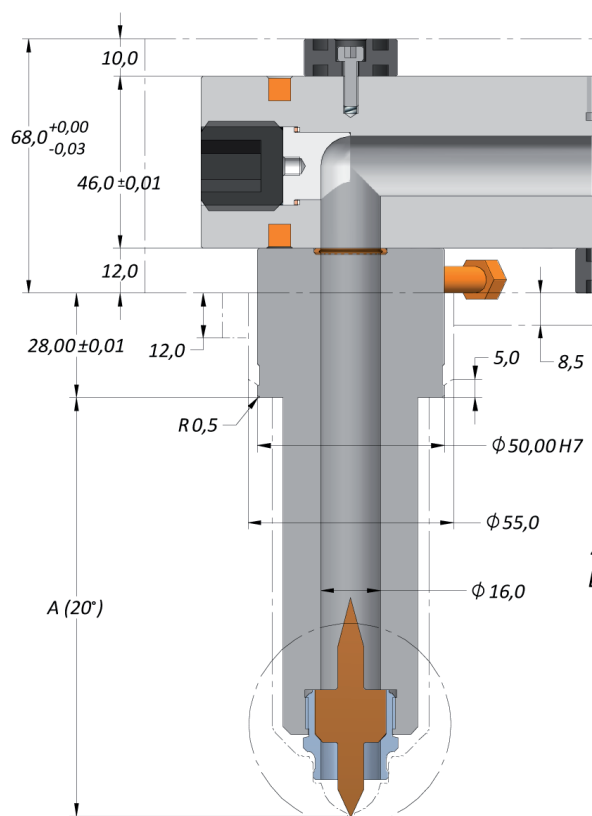
Par de apriete puntera (Nm): 60 / Torque nozzle tip insert (Nm): 60

Para más medidas de bloque consultar pág.61-62 / For more manifold measures see page 61-62

IMPORTANTE / IMPORTANT: Aplicar la dilatación térmica / Apply the thermal expansion

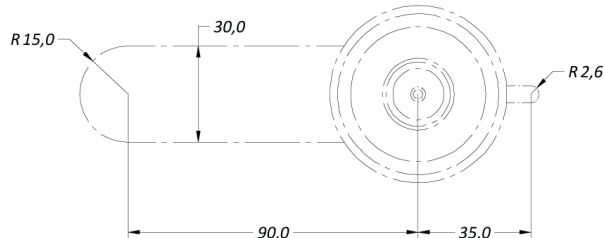
$$TE = L_{\text{nozzle}} \times \frac{(\text{Process temperature} - 20^{\circ}\text{C}) \times 12}{1000000}$$

Sistemas de inyección por canal caliente / Hot Runner System

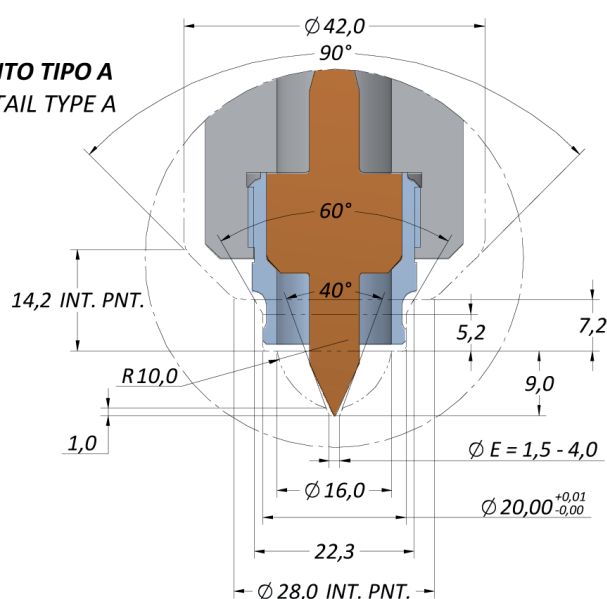


SALIDA DE CABLES

DETAIL WIRE EXIT



ALOJAMIENTO TIPO A
BORING DETAIL TYPE A



NOZZLE				THERMAL EXPANSION			
REFERENCE	A	W	THERMOCOUPLE	200 °	250 °	300 °	330 °
MZKM5-100	112,0	620	TM-15200	0,24	0,31	0,38	0,42
MZKM5-200	212,0	900	TM-15300	0,46	0,59	0,71	0,79
MZKM5-300	312,0	900	TM-15400	0,67	0,86	1,05	1,16

Termopar tipo J, rojo+, azul - .

Tornillo zona acceso DIN 912 (12.9) M5x25.

No se suministra aro centrador.

Junta de estanqueidad ACZK.

Par de apriete de tornillos zona acceso 10 Nm.

Par de apriete puntera 100 Nm.

Llave puntera: 23

Termopar suplemento acceso 154DLBLHN.

Thermocouple J type, red +, blue - .

Back plate screw DIN 912 (12.9) M5x25.

Locating ring not supplied.

O-ring back plate code ACZK.

Torque back plate screw 10 Nm.

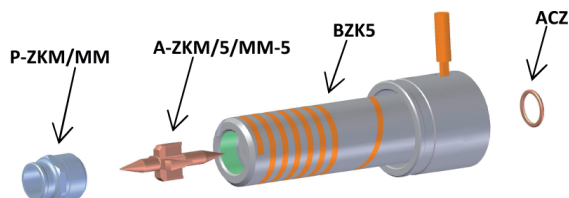
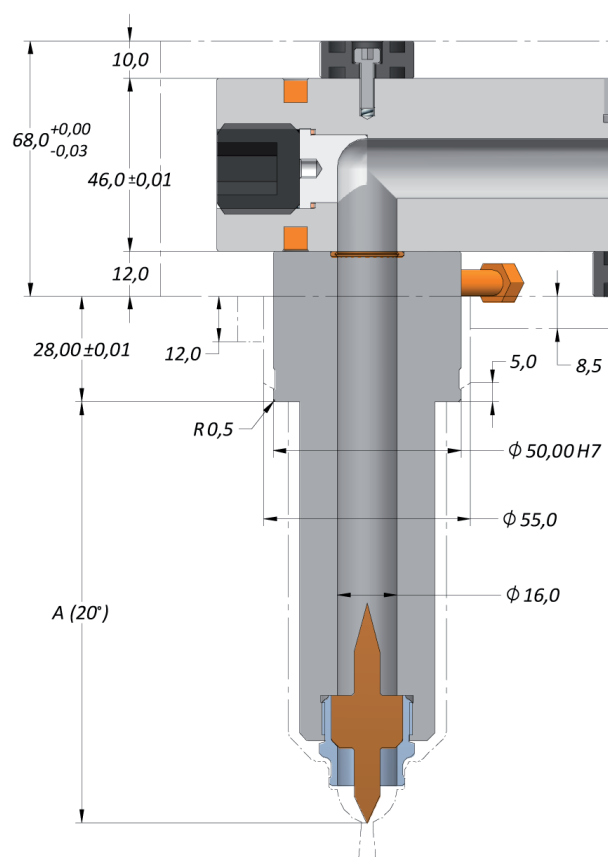
Torque nozzle tip insert 100 Nm.

Hexagon socket nozzle tip insert: 23

Back plate thermocouple code 154DLBLHN.

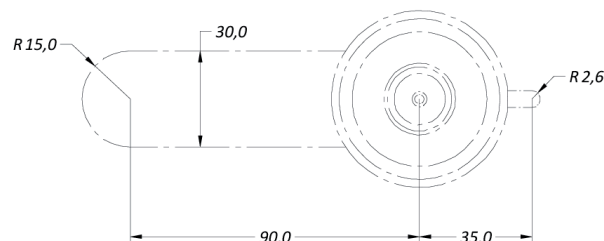
IMPORTANTE / IMPORTANT: Aplicar la dilatación térmica / Apply the thermal expansion

$$TE = L_{\text{nozzle}} \times \frac{(\text{Process temperature} - 20^{\circ}\text{C}) \times 12}{1000000}$$

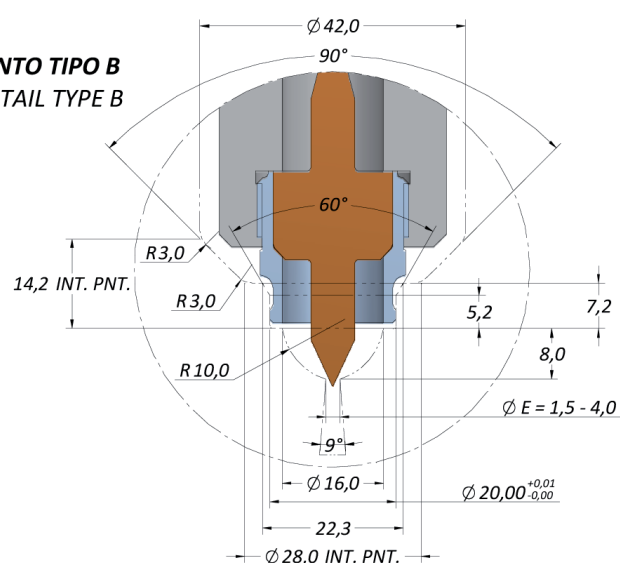


SALIDA DE CABLES

DETAIL WIRE EXIT



ALOJAMIENTO TIPO B
BORING DETAIL TYPE B



NOZZLE				THERMAL EXPANSION			
REFERENCE	A	W	THERMOCOUPLE	200 °	250 °	300 °	330 °
MZKM5-100	112,0	620	TM-15200	0,24	0,31	0,38	0,42
MZKM5-200	212,0	900	TM-15300	0,46	0,59	0,71	0,79
MZKM5-300	312,0	900	TM-15400	0,67	0,86	1,05	1,16

Termopar tipo J, rojo+, azul - .

Tornillo zona acceso DIN 912 (12.9) M5x25.

No se suministra aro centrador.

Junta de estanqueidad ACZK.

Par de apriete de tornillos zona acceso 10 Nm.

Par de apriete puntera 100 Nm.

Llave puntera: 23

Termopar suplemento acceso 154DLBLHN.

Thermocouple J type, red +, blue - .

Back plate screw DIN 912 (12.9) M5x25.

Locating ring not supplied.

O-ring back plate code ACZK.

Torque back plate screw 10 Nm.

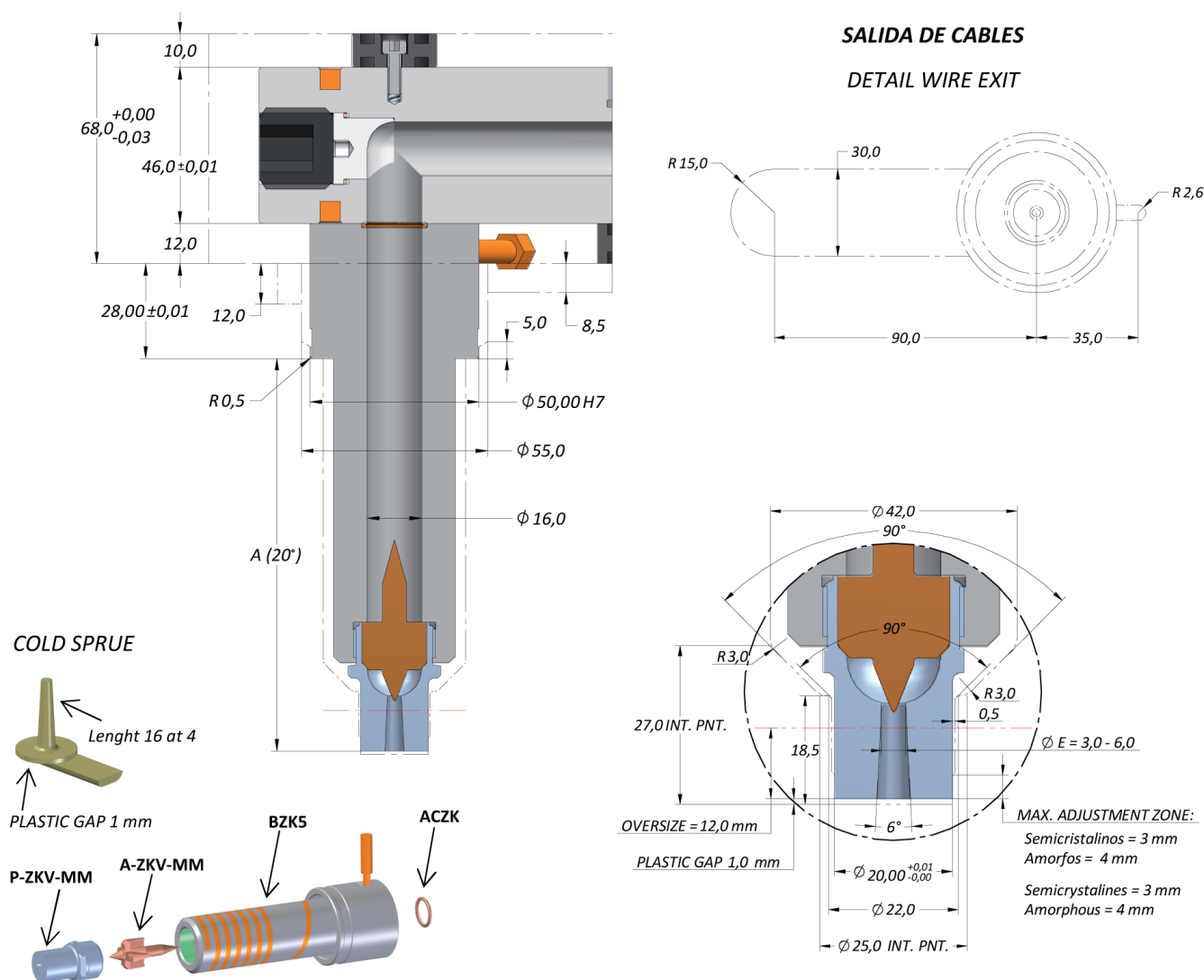
Torque nozzle tip insert 100 Nm.

Hexagon socket nozzle tip insert: 23

Back plate thermocouple code 154DLBLHN.

IMPORTANTE / IMPORTANT: Aplicar la dilatación térmica / Apply the thermal expansion

$$TE = L_{\text{nozzle}} \times \frac{(\text{Process temperature} - 20^{\circ}\text{C}) \times 12}{1000000}$$



NOZZLE				THERMAL EXPANSION			
REFERENCE	A	W	THERMOCOUPLE	200 °	250 °	300 °	330 °
MZKV5-100	104,0	620	TM-15200	0,22	0,29	0,35	0,39
MZKV5-200	204,0	900	TM-15300	0,44	0,56	0,69	0,76
MZKV5-300	304,0	900	TM-15400	0,66	0,84	1,02	1,13

Termopar tipo J, rojo+, azul -.

Tornillo zona acceso DIN 912 (12.9) M5x25.

No se suministra aro centrador.

Junta de estanqueidad ACZK.

Par de apriete de tornillos zona acceso 10 Nm.

Par de apriete puntera 100 Nm.

Llave puntera: 24

Termopar suplemento acceso 154DLBLHN.

Thermocouple J type, red +, blue -.

Back plate screw DIN 912 (12.9) M5x25.

Locating ring not supplied.

O-ring back plate code ACZK.

Torque back plate screw 10 Nm.

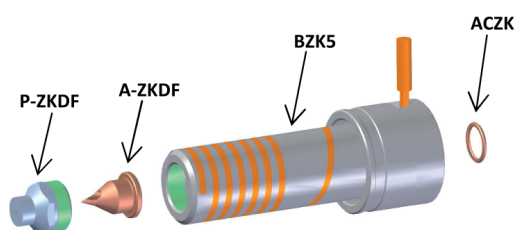
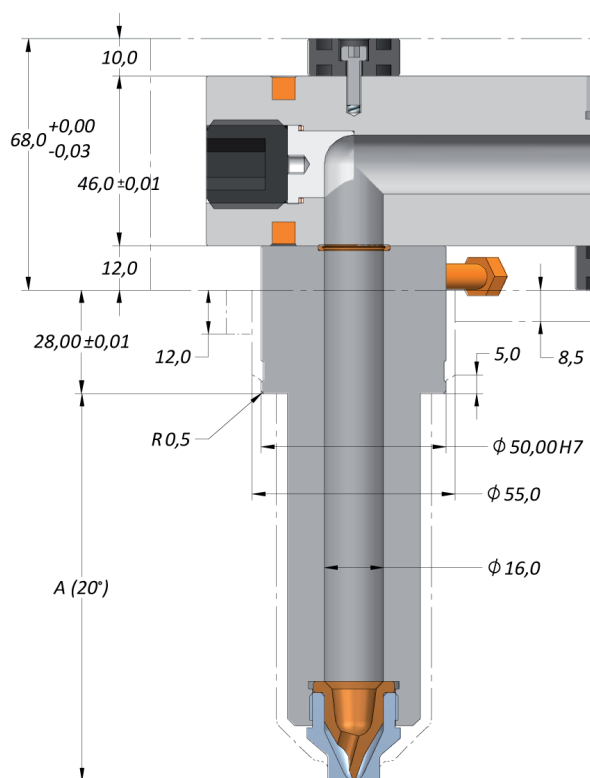
Torque nozzle tip insert 100 Nm.

Hexagon socket nozzle tip insert: 24

Back plate thermocouple code 154DLBLHN.

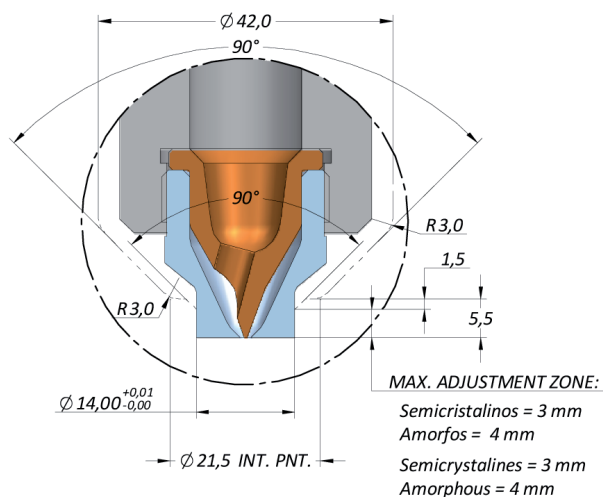
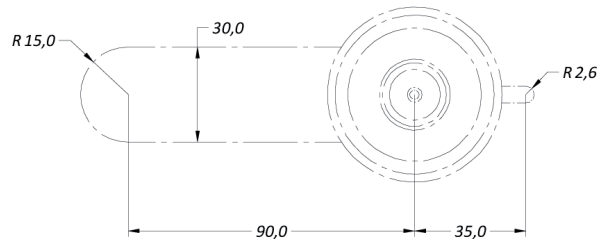
IMPORTANTE / IMPORTANT: Aplicar la dilatación térmica / Apply the thermal expansion

$$TE = L_{\text{nozzle}} \times \frac{(\text{Process temperature} - 20^{\circ}\text{C}) \times 12}{1000000}$$



SALIDA DE CABLES

DETAIL WIRE EXIT



NOZZLE				THERMAL EXPANSION			
REFERENCE	A	W	THERMOCOUPLE	200 °	250 °	300 °	330 °
MZKDF5-100	105,0	620	TM-15200	0,23	0,29	0,35	0,39
MZKDF5-200	205,0	900	TM-15300	0,44	0,56	0,69	0,76
MZKDF5-300	305,0	900	TM-15400	0,66	0,84	1,02	1,13

Termopar tipo J, rojo+, azul -.

Tornillo zona acceso DIN 912 (12.9) M5x25.

No se suministra aro centrador.

Junta de estanqueidad ACZK.

Par de apriete de tornillos zona acceso 10 Nm.

Par de apriete puntera 100 Nm.

Llave puntera: 23

Termopar suplemento acceso 154DLBLHN.

Thermocouple J type, red +, blue -.

Back plate screw DIN 912 (12.9) M5x25.

Locating ring not supplied.

O-ring back plate code ACZK.

Torque back plate screw 10 Nm.

Torque nozzle tip insert 100 Nm.

Hexagon socket nozzle tip insert: 23

Back plate thermocouple code 154DLBLHN.

IMPORTANTE / IMPORTANT: Aplicar la dilatación térmica / Apply the thermal expansion

$$TE = L_{nozzle} \times \frac{(\text{Process temperature} - 20^{\circ}\text{C}) \times 12}{1000000}$$

SOPORTE 24/7 / SUPPORT 24/7



Tel. 902240670 International / Tel. + 34 961452016 / Fax. +34-961452017
e-mail: info@orymo.eu



Sistemas de inyección por canal caliente / Hot Runner System