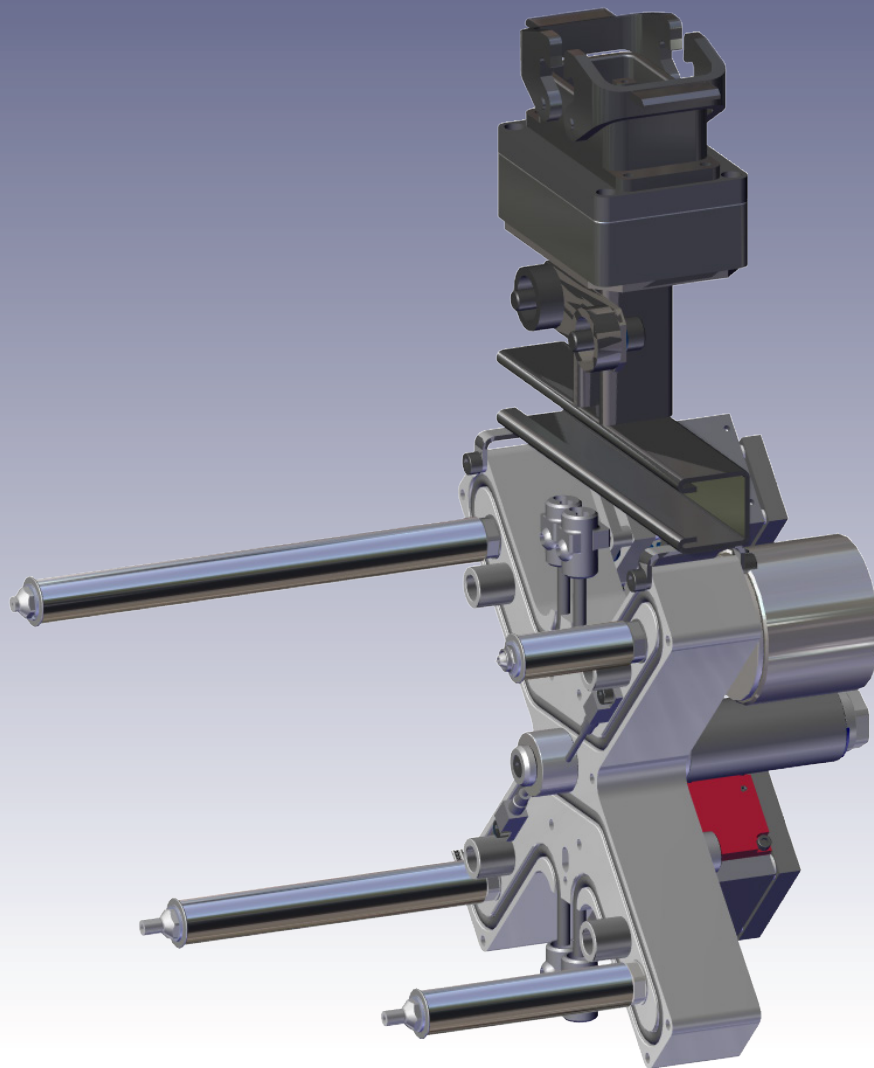


06E Product Catalog

Threaded Nozzles Hot Runner Series

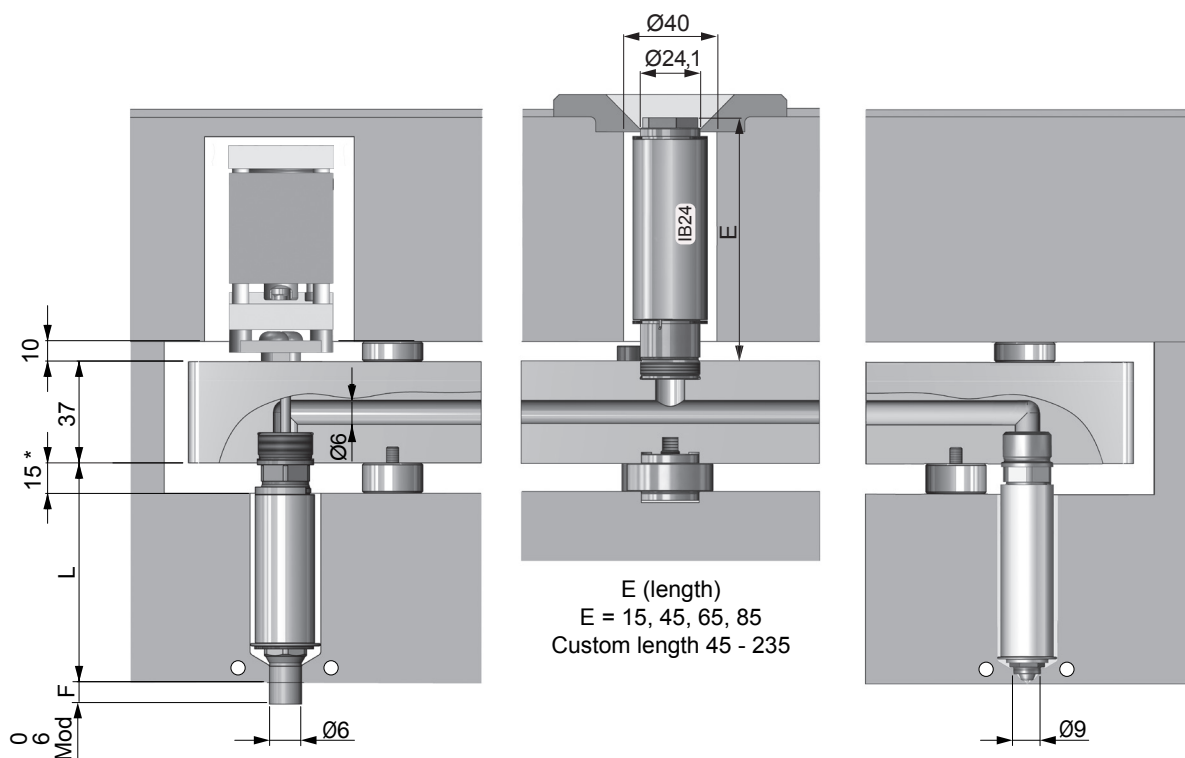


Stabilize your Process _____



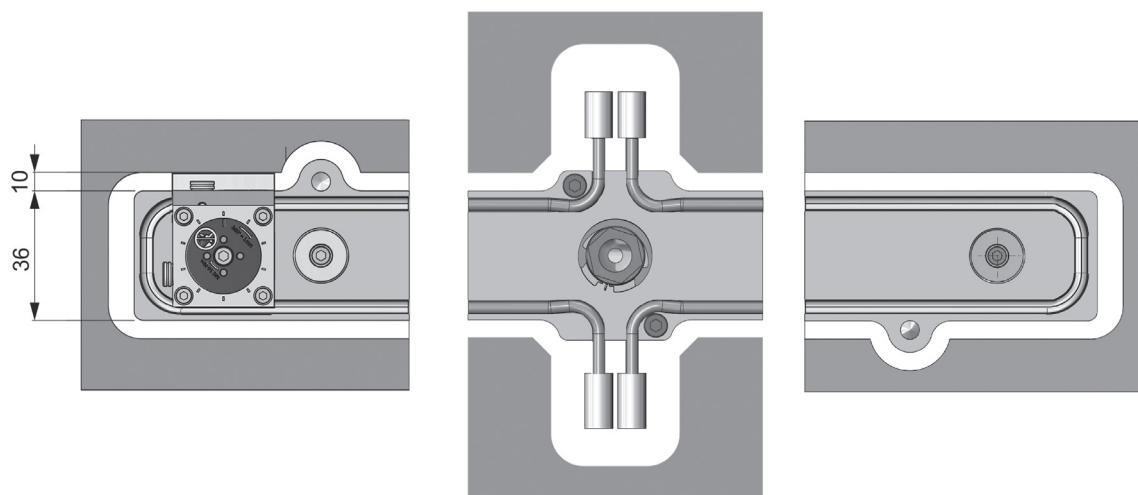
Hot Runner System - Thrust Pad Manifold

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.



Thrust pad selection

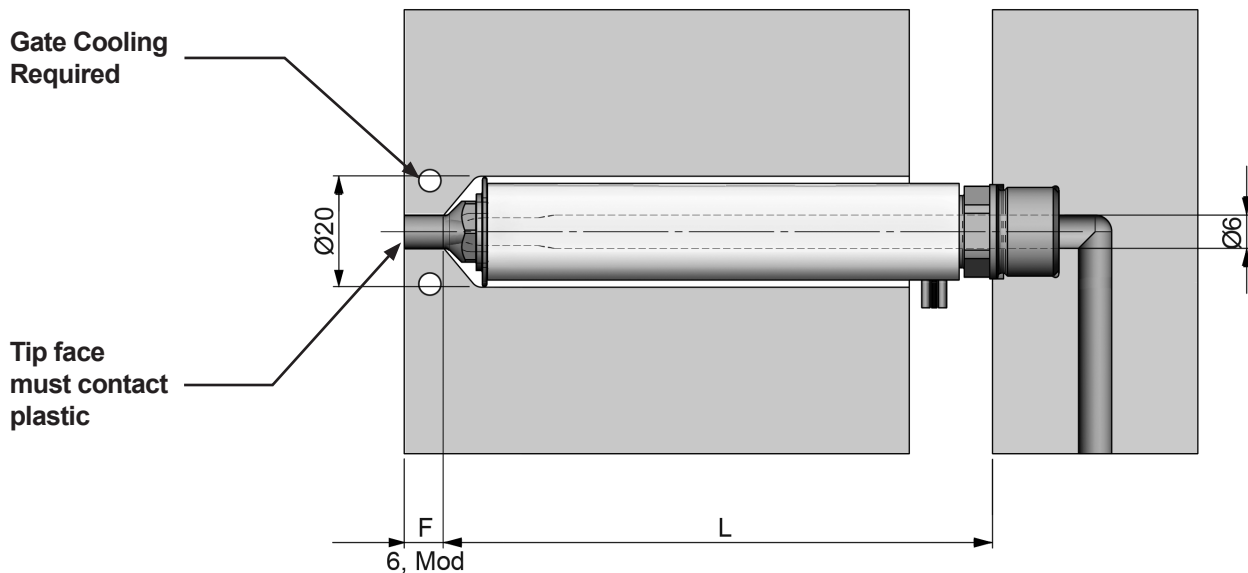
Inlet bushing

*min.10¹⁾ For a specific application, please consult Synventive



Nozzle Lengths

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.

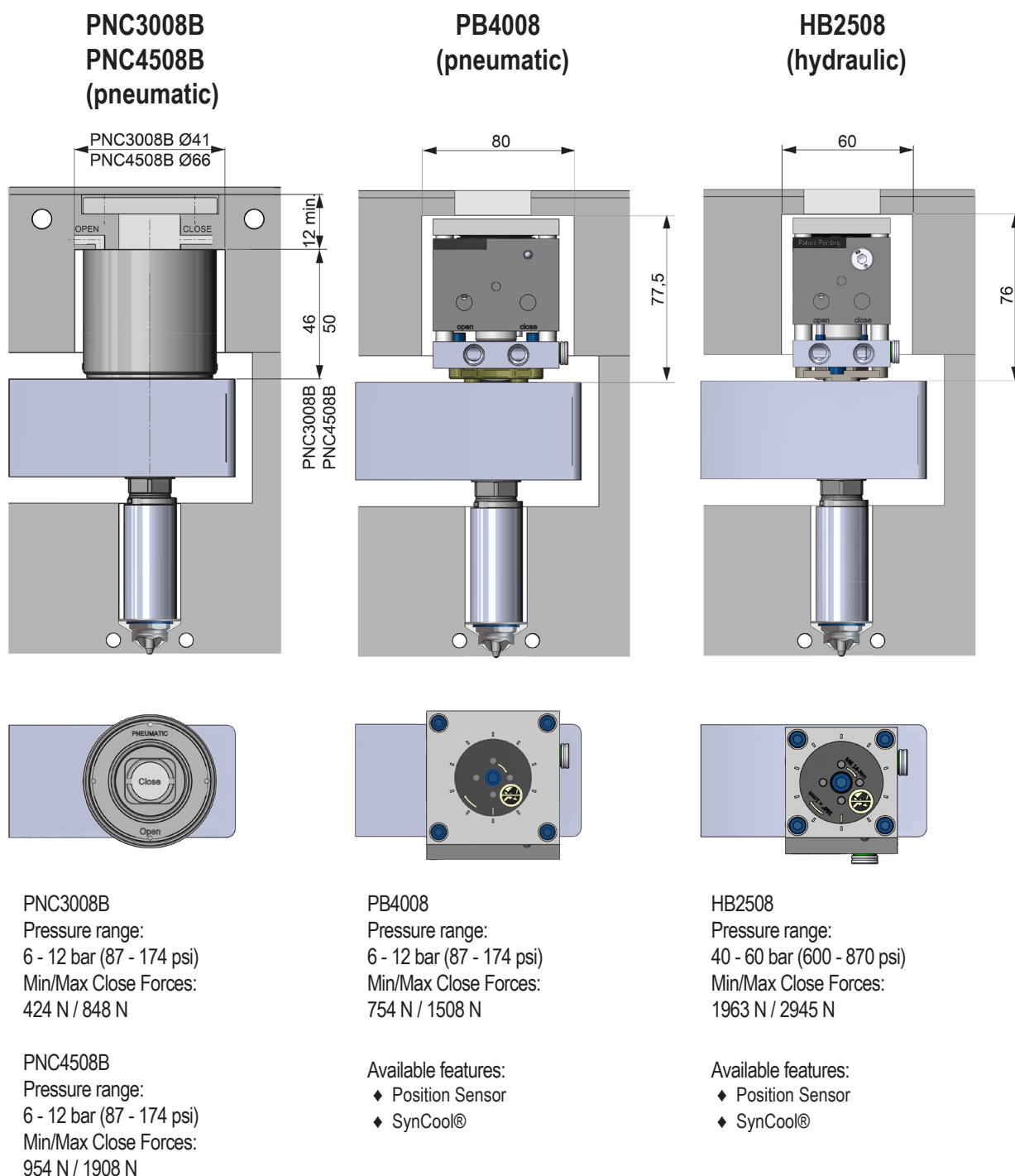


L (mm)	Heater zone power (Watt)	L (mm)	Heater zone power (Watt)
	Power1		Power 1
One control area (thermocouple) Standard lengths		One control area (thermocouple) Custom lengths	
60	125 W	>60-<80	125 W
70	125 W	>80-<100	139 W
80	139 W	>100-<120	159 W
90	139 W	>120-<140	179 W
100	159 W	>140-<180	199 W
110	159 W	>180-<200	239 W
120	179 W	>200-220	259 W
130	179 W		
140	199 W		
160	199 W		
180	219 W		
200	239 W		



Available Actuators

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.



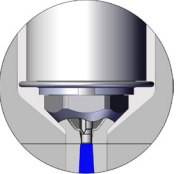
Electric actuators are also available for the 06E nozzle.
 See the actuator catalog CAT-03-0001_EN-REV##



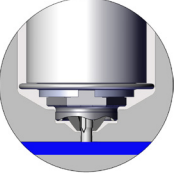
Nozzle Tip Styles

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.
H = Gate orifice diameter, F = Tip extension, Dt = Tip Diameter, Mod = Modifiable

VSP Valve Gate - Straight Pin - Plunged Through

Tip Style	Description	Dt = Ø6 F = 0, 6, Mod H = 1.6		
	Standard		✓	

VSW Valve Gate - Straight Pin - Blind

Tip Style	Description	Dt = Ø9		
		H = 0.8	H = 1.2	H = 1.6
	Standard	✓	✓	✓

✓ Preferred

(✓) Available

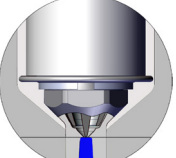
✗ Not Available



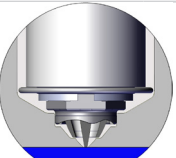
Nozzle Tip Styles

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.
H = Gate orifice diameter, F = Tip extension, Dt = Tip Diameter, Mod = Modifiable

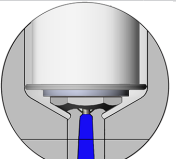
TTP Thermal Gate – Torpedo - Plunged Through

Tip Style	Description	Dt = Ø6 F = 0, 6, Mod		
		H = 0.8	H = 1.2	H = 1.6
	Standard	✓	✓	✓

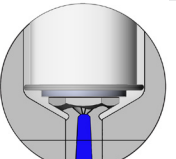
TTW Thermal Gate – Torpedo - Blind

Tip Style	Description	Dt = Ø9		
		H = 0.8	H = 1.2	H = 1.6
	Standard	✓	✓	✓

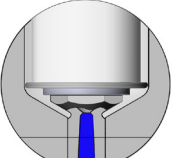
TNK Thermal Gate – Full Flow - Plunged Through

Tip Style	Description	Dt = Ø6 / Mod Dt = 5-6 F = 6, Mod F = 0-6		
		H = 1.2 Mod 1,4	H = 1.6 Mod 1,8	H = 2.0
	Standard (cold runner applications)	✓	✓	✓

TTK Thermal Gate – Torpedo - K

Tip Style	Description	Dt = Ø6 / Mod Dt = 5-6 F = 6, Mod F = 0-6		
		H = 1.2 Mod 1,4	H = 1.6 Mod 1,8	H = 2.0
	Standard (cold runner applications, semi crystalline materials)	✓	✓	✓

TPK Thermal Gate – Full Flow - K

Tip Style	Description	Dt = Ø6 / Mod Dt = 5-6 F = 6, Mod F = 0-6		
		H = 1.2 Mod 1,4	H = 1.6 Mod 1,8	H = 2.0
	Standard (cold runner applications)	✓	✓	✓



Preferred



Available

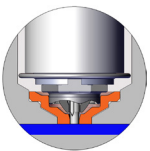
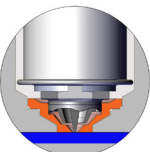
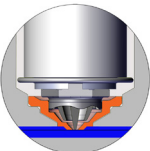


Not Available



Wear Inserts

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.
H = Gate orifice diameter, F = Tip extension, Dt = Tip Diameter, Mod = Modifiable

Part	Description	F = 0, 6, Mod		
		H=0.8	H=1.2	H=1.6
	WI-VSW Wear Insert	✓	✓	✓
	WI-TTW Wear Insert (without Dimple)	✓	✓	✓
		F = 0		
	Wear Insert (with Dimple)	✓	✓	✓

✓ Preferred

(✓) Available

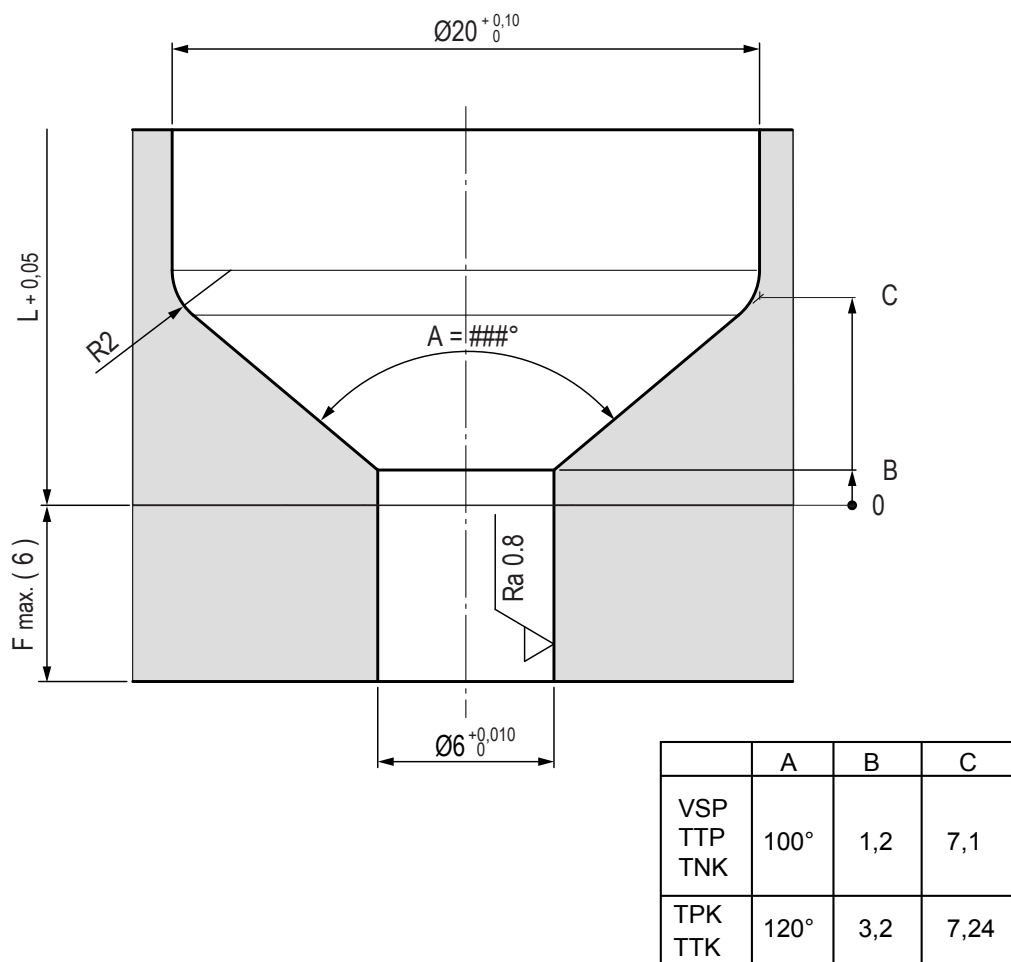
✗ Not Available



Nozzle Tip Cutout Dimensions

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.
Dimensions for reference only. Reference system drawing for complete dimensions prior to machining gate detail in mold.

VSP, TTP, TNK, TTK, TPK- Nozzle tip cutout dimensions



Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.
Reference system drawing for complete dimensions prior to machining gate detail in mold.

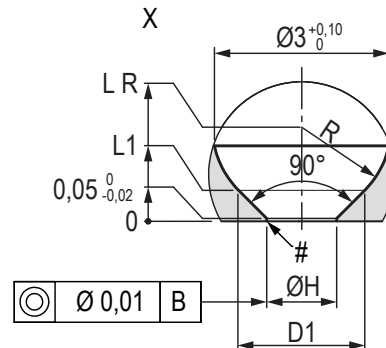
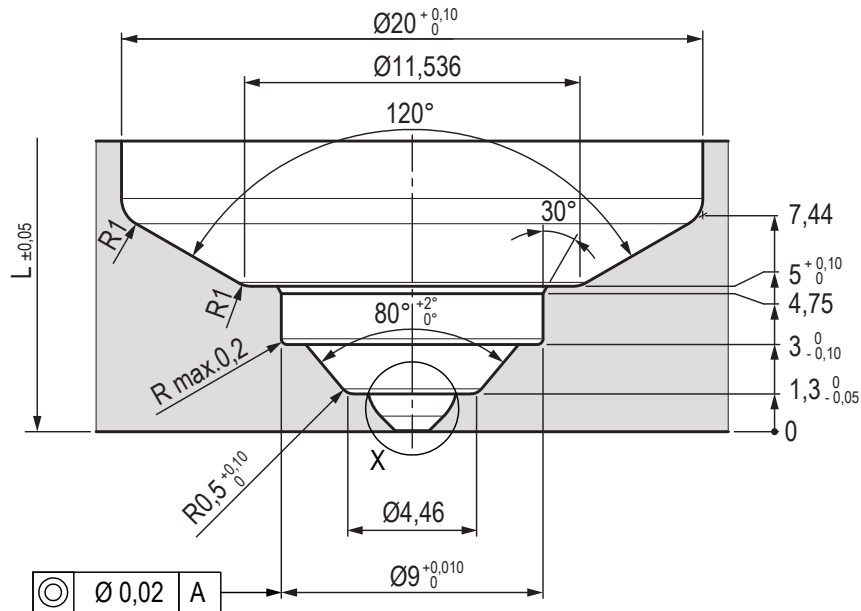
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Nozzle Tip Cutout Dimensions

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.
Dimensions for reference only. Reference system drawing for complete dimensions prior to machining gate detail in mold.

TTW - Nozzle tip cutout dimensions



= $\sqrt[3]{-0.02}$

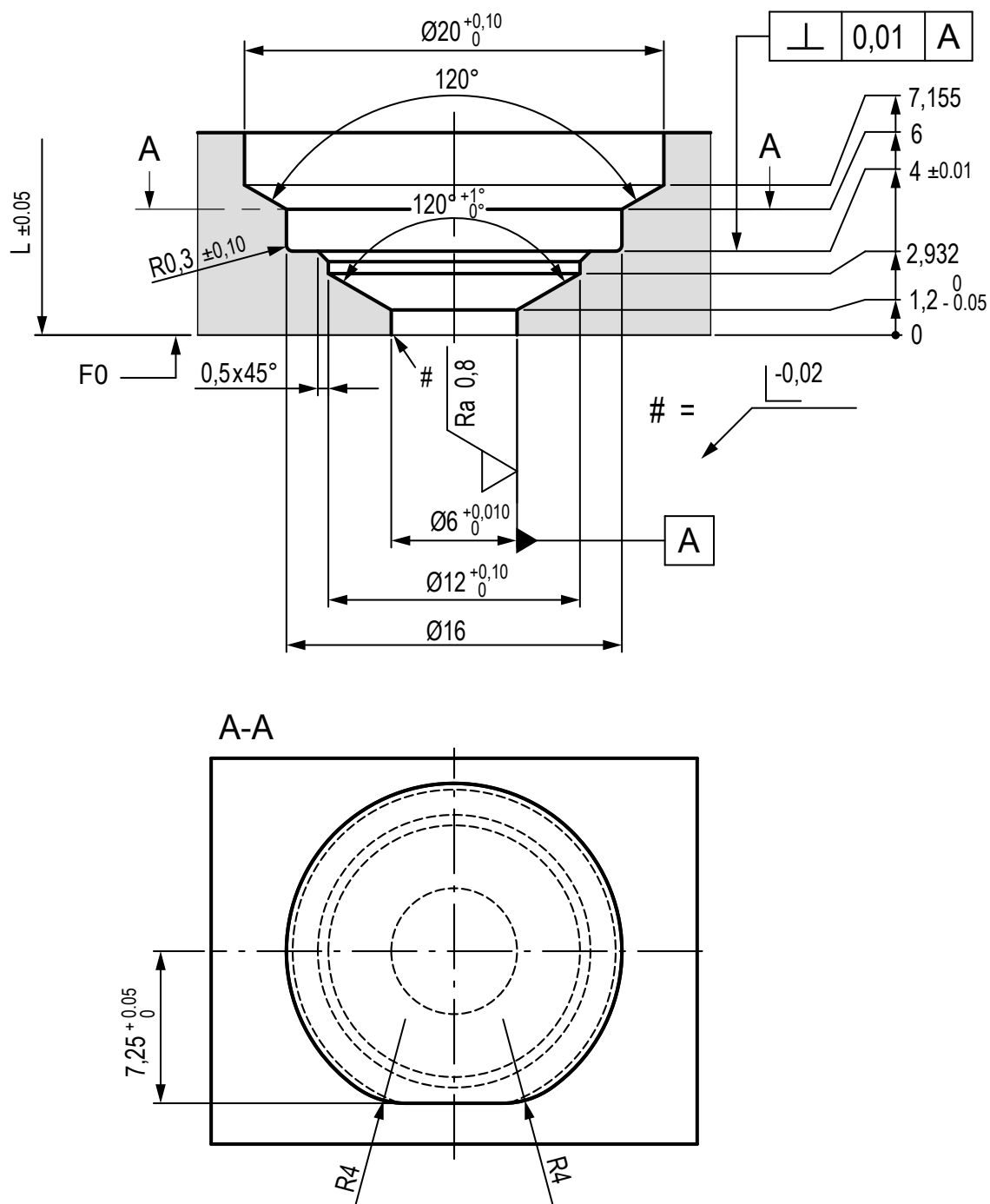
ØH	R	L1	D1	LR
0.8	1.65	0.81	2.33	1.98
1.2	1.53	0.53	2.17	1.62
1.6	1.5	0.31	2.12	1.37

- At the area of the nozzle gate replaceable, hardened (52 +2/-1HRC) inserts are recommended by Synventive.
- Synventive recommends that the gate area geometry is manufactured by grinding and not EDM with a surface quality of $\sqrt[3]{Ra0.8}$

Wear Insert Cutout Dimensions

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.
Dimensions for reference only. Reference system drawing for complete dimensions prior to machining gate detail in mold.

WI-VSW, WI-TTW - Wear insert cutout dimensions



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