

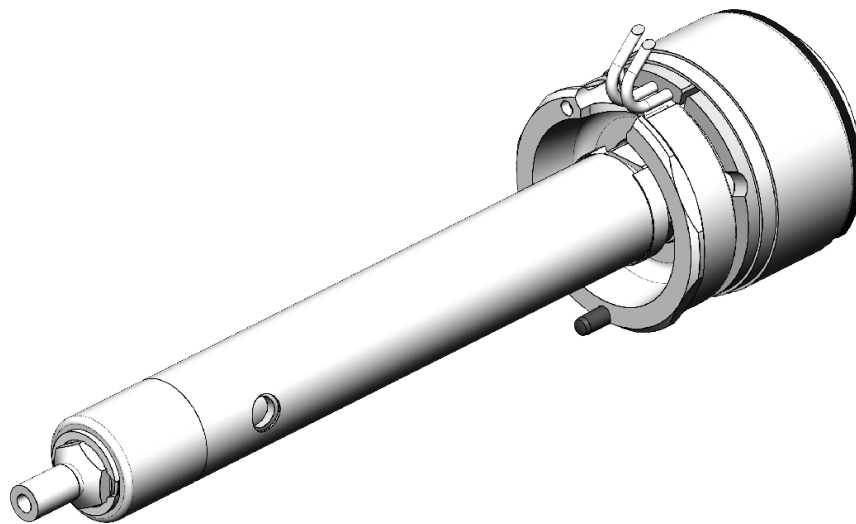


BARNES™
MOLDING SOLUTIONS

HOT RUNNER TECHNOLOGY

06S-03 Sprue Bushings

Product Catalog



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**Product Type**

Hot runner nozzles in the 06 S range
→ Nozzle size 06: Flow bore - Ø 6 mm
→ Nozzle style S: Sprue Bushing

Different gate options can be implemented.

Major Dimensions (mm)

J	Flow bore	Ø 6 ¹⁾
Jib1	Flow bore inlet bushing	Ø 4, Ø 5, Ø 6
LSB	Nozzle length	50...190 ²⁾
F	Tip extension	see page 4, 5
D	Cutout	Ø 20
Dt	Tip Ø	see page 4
H	Gate Orifice	see page 4
K	Head height	40
Dk	Head diameter	Ø 40
Ds	Ø of Head centering	Ø 40
R	Nozzle contact radius	0...40
AD	Nozzle contact angle	90°...120°

Application

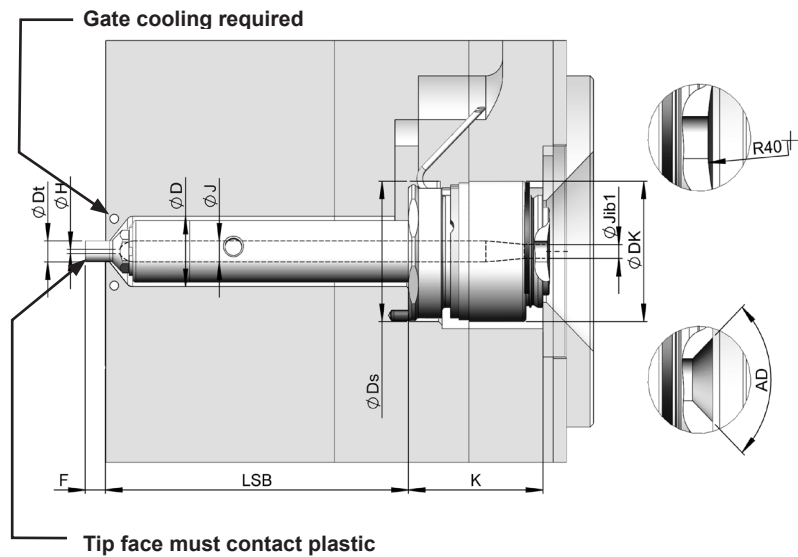
For all usual thermoplastics Max. shot weight per nozzle (g):
→ 120 (open, low viscosity)

Heating

→ Externally heated, 230 V AC
→ Replaceable heater & thermocouple
→ Nozzle heater zones, 125...259 W
→ Head heater, 450 W
Thermocouples, EN 60584
Fe-CuNi 0 = Typ J;
NiCr-Ni = Typ K

- ¹⁾ Standard flow bore value = Ø 6
consult Synventive for custom dimensions Ø 4, Ø 5
²⁾ Standard lengths shown, consult Synventive for custom lengths.

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



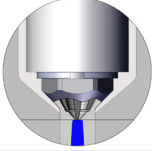
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LSB (mm)	Heater zone power (Watt)	
	Nozzle	Head
50	125 W	450 W
60	125 W	450 W
70	139 W	450 W
80	139 W	450 W
90	159 W	450 W
100	159 W	450 W
110	179 W	450 W
120	179 W	450 W
130	199 W	450 W
150	219 W	450 W
170	239 W	450 W
190	259 W	450 W

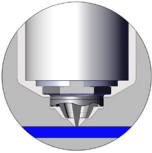


Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.
H = Gate orifice diameter, F = Tip extension, Dt = Tip Diameter, Mod = Modifiable

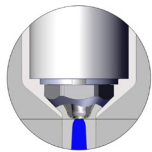
TTP Thermal Gate – Torpedo - Plunged Through

Tip Style	Description	Dt = Ø6 F = 0, 6, Mod		
		H = 0.8	H = 1.2	H = 1.6
	TTP Standard Doc008996_RIS.png	✓	✓	✓

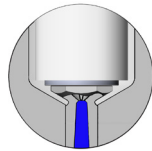
TTW Thermal Gate – Torpedo - Blind

Tip Style	Description	Dt = Ø9		
		H = 0.8	H = 1.2	H = 1.6
	TTW Standard Doc009076_RIS.png	✓	✓	✓

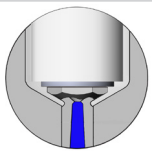
TNK Thermal Gate – Full Flow - Plunged Through

Tip Style	Description	Dt = Ø6 F = 0, 6, Mod		
		H = 0.8	H = 1.2	H = 1.6
	TNK Standard Doc009077_RIS.png	✓	✓	✓

TTK Thermal Gate – Torpedo - K

Tip Style	Description	Dt = Ø6 F = 6, Mod H=1.2 / Mod 1.2 - 2.0		
	TTK Standard (cold runner applications, semi crystalline materials) Doc009078_RIS.png		✓	

TPK Thermal Gate – Full Flow - K

Tip Style	Description	Dt = Ø6 F = 6, Mod H=1.2 / Mod 1.2 - 2.0		
	TPK Standard (cold runner applications) Doc009079_RIS.png		✓	

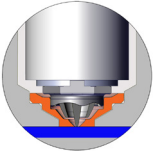
✓ Preferred

(✓) Available

✗ Not Available



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-TTW	Wear Insert (without Dimple) Doc009080_RIS.png	✓	✓	✓
	Wear Insert (with Dimple) Doc009081_RIS.png	✓	✓	✓



Preferred



Available

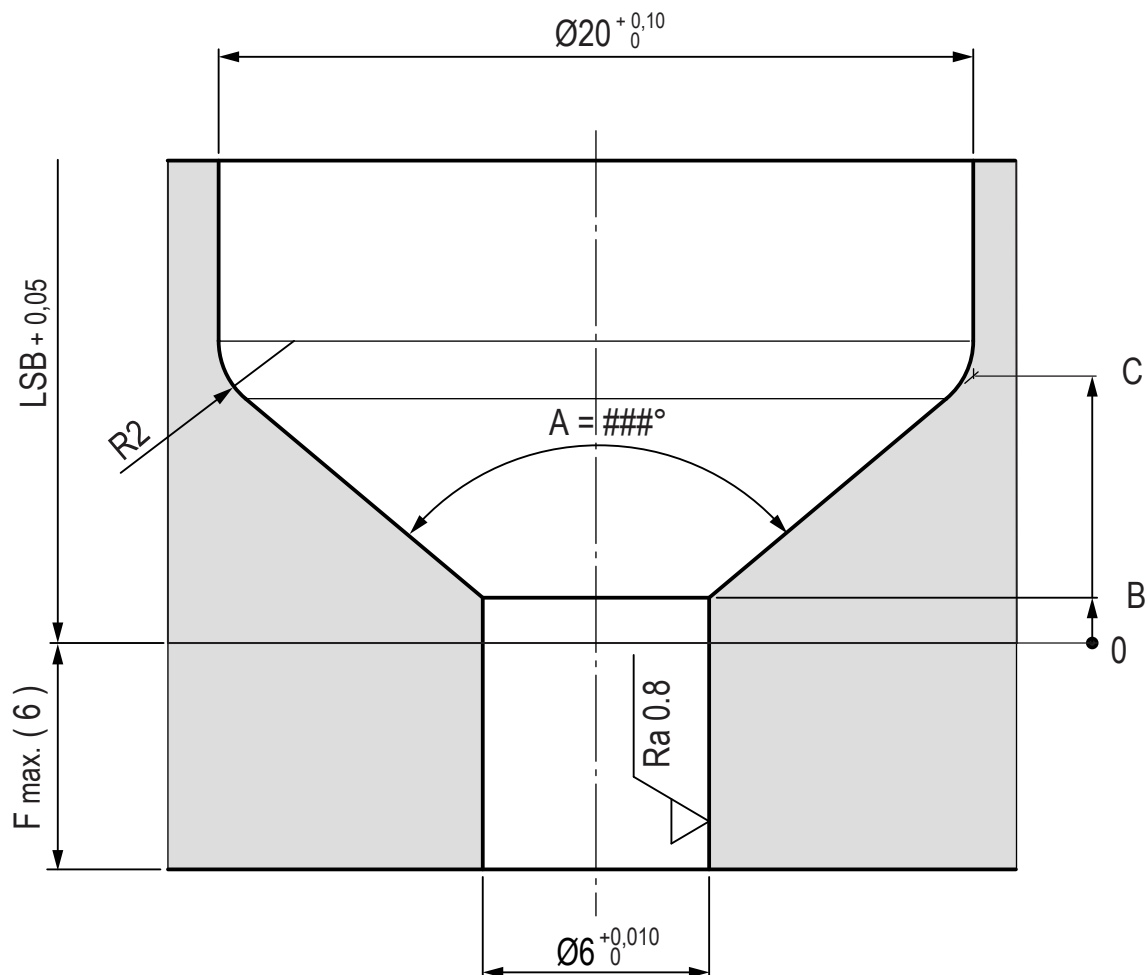


Not Available



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.

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



	A	B	C
TTP	100°	1,2	7,1
TNK TTK TPK	120°	3,2	7,24

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