Gateway Corp.

Design For Manufacturing

2026.09.04

Outlines

Gateway Corp.

Description and Proposal

- General Information
- Tooling size and cavity layout
- Parting Line Analysis
- Draft analysis
- Mold Structure
- Gate location
- Ejector pin location

General Information

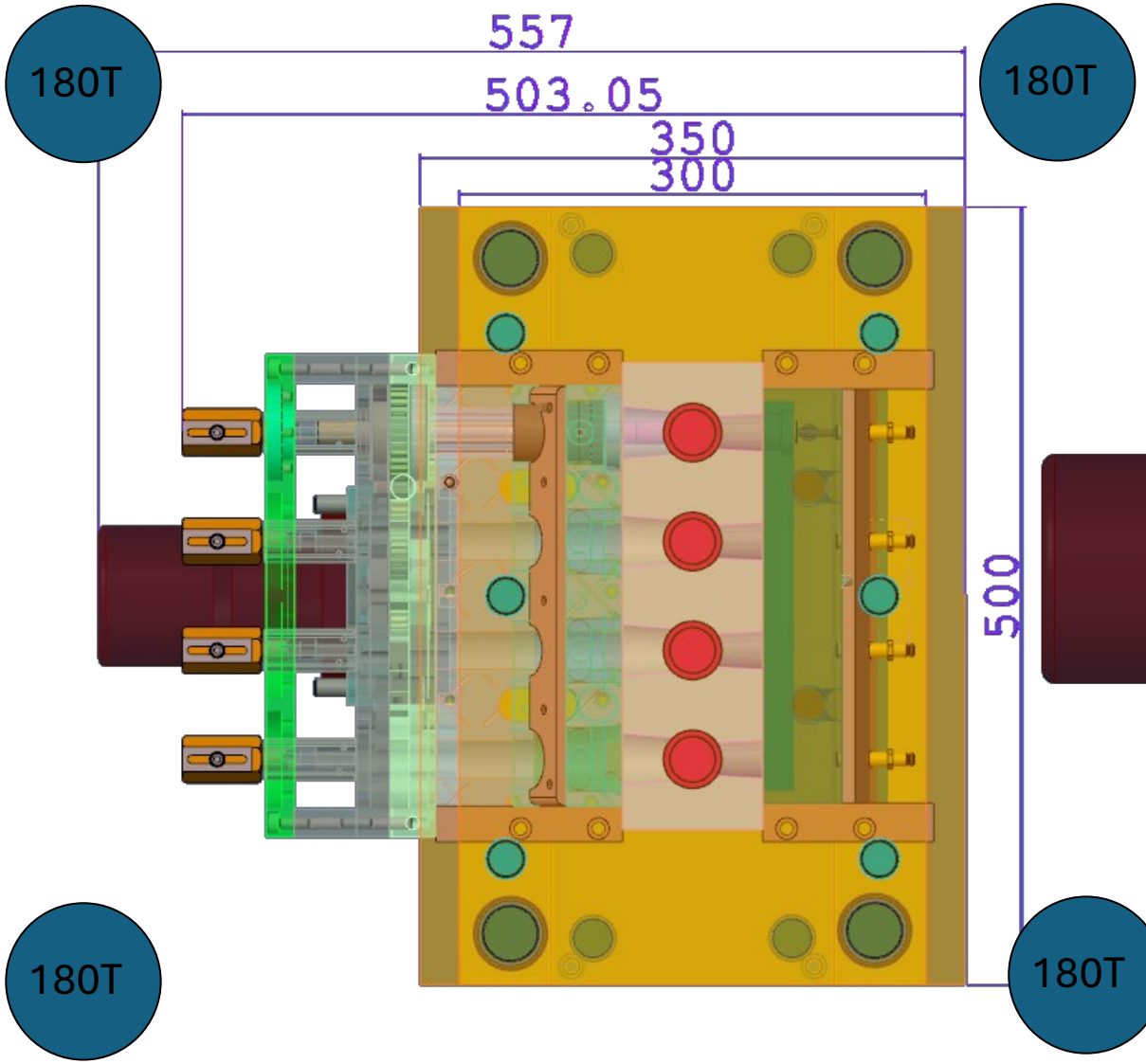
Gateway Corp.

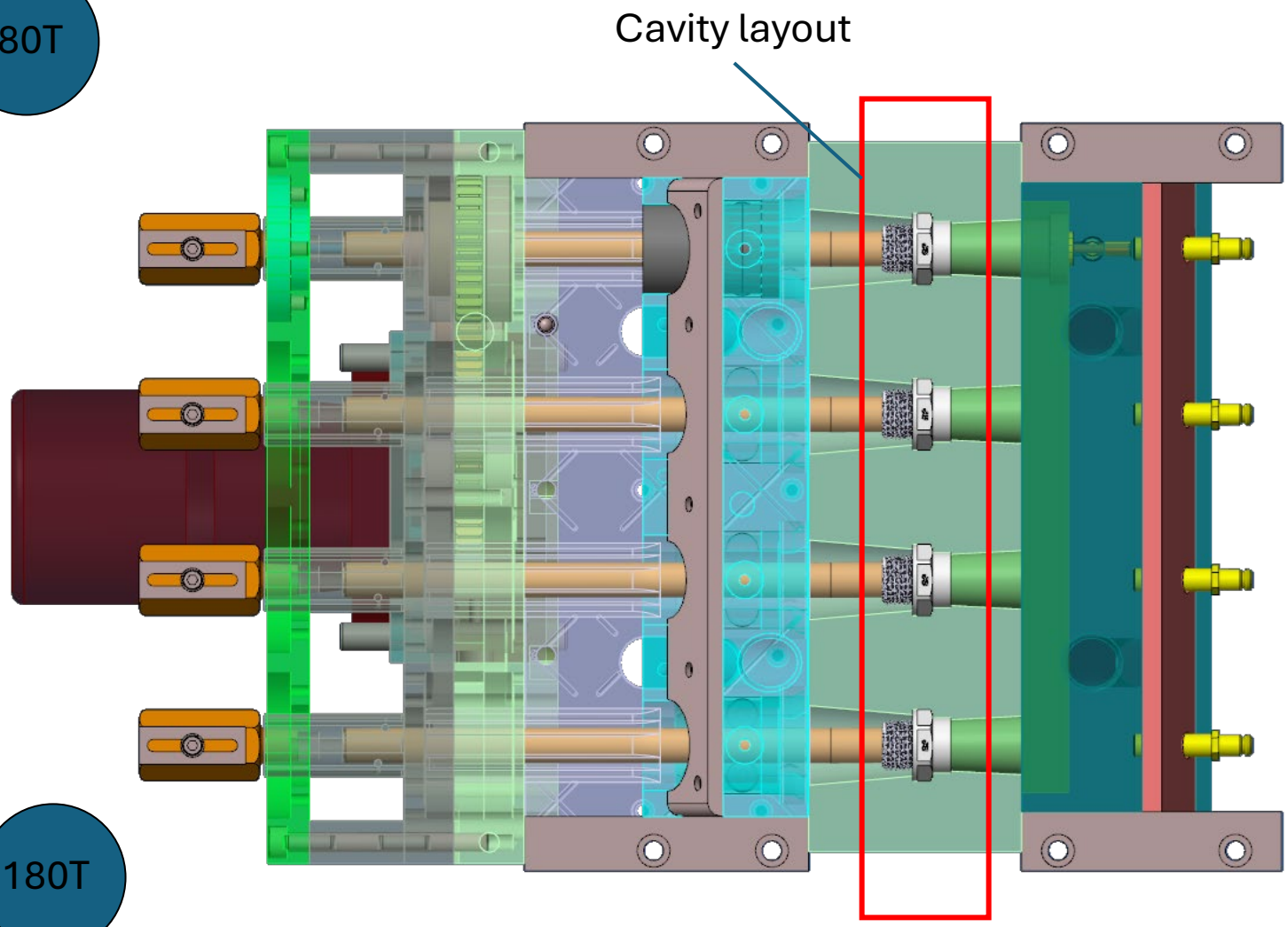
Customer Name	RWC
Part Name	12mm x 1/2 BSP STRAIGHT ADAPTOR BODY
Material	POM Acetal unfilled
Shrinkage	20/1000
Part No.	CP-01U14M-01
Cavities	1*4Cav.
Injection concept	Hot Runner System 4 drops for 4 Cav. open gate (YUDO)
Cavity Steel	Finkl D2 Tool Steel / 56~59 HRC
Core Steel	Finkl D2 Tool Steel / 56~59 HRC
Number of slider	2
Number of lifter	N/A
Injection machine Type	180TON (Recommended value)
Tool supplier	Gateway Corp.
Designer	Robin / Ben
Proposal version	2026-09-04

Tooling size and cavity layout

Gateway Corp.

Description and Proposal





Parting Line Analysis

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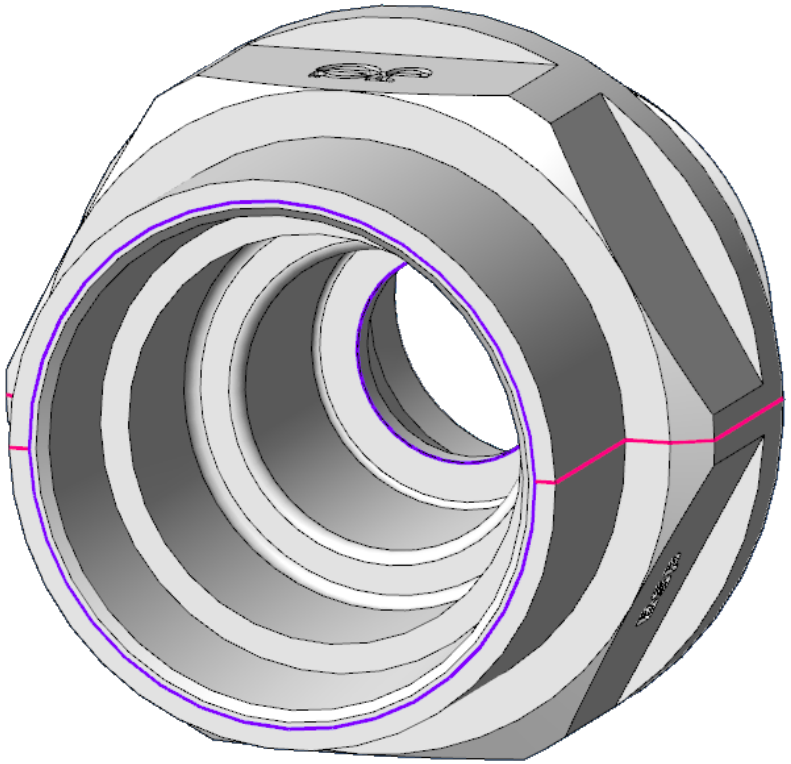
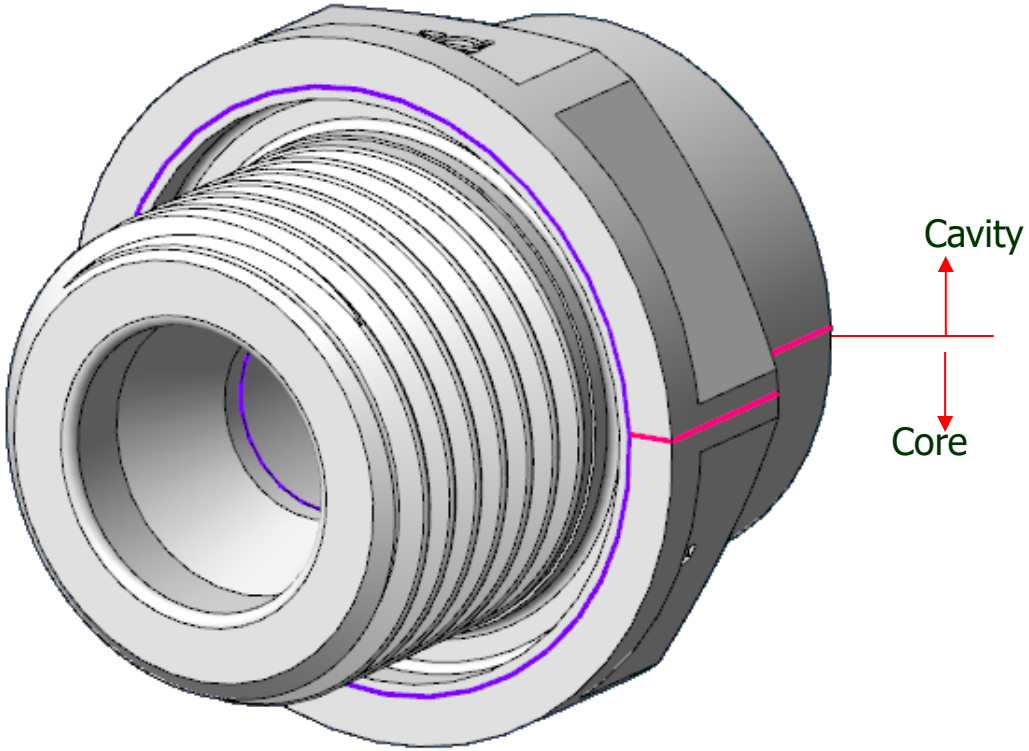
Parting line / Lifter

P.L

LIFTER





Draft Analysis

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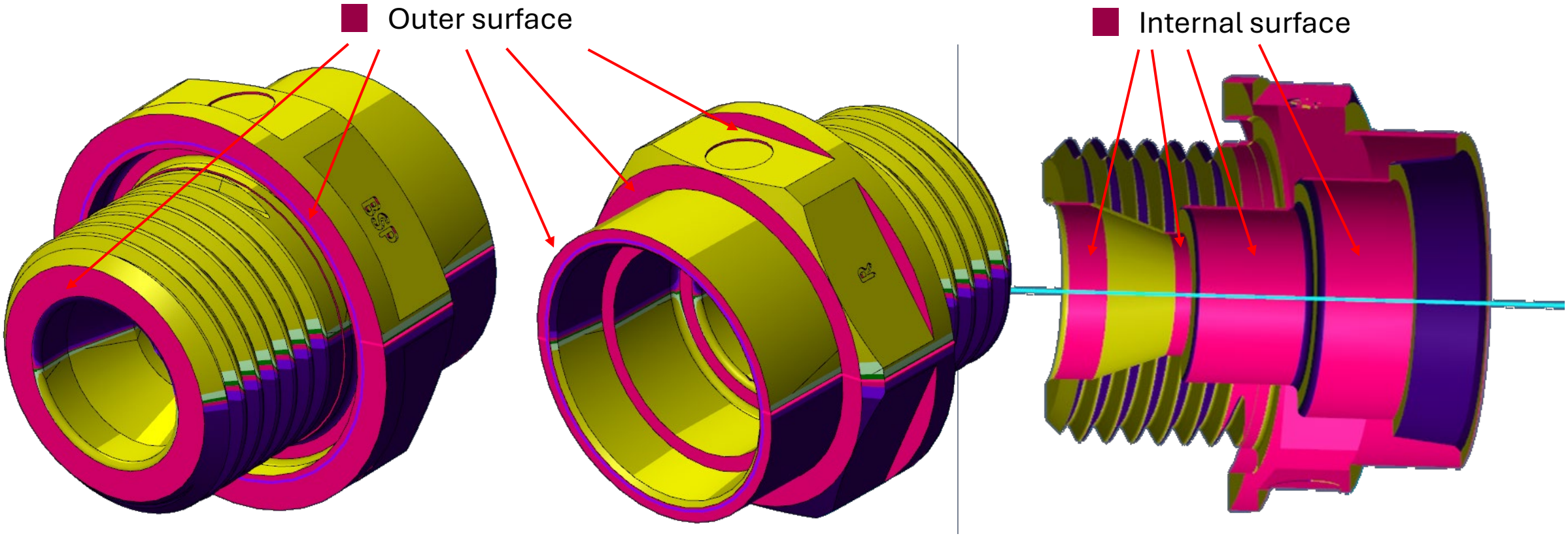
Description and Proposal



The red surfaces shows no draft angle for model. We suggest adding a 1° draft to avoid drag marks during ejection.
Please review and confirm your approval.

Mold Structure

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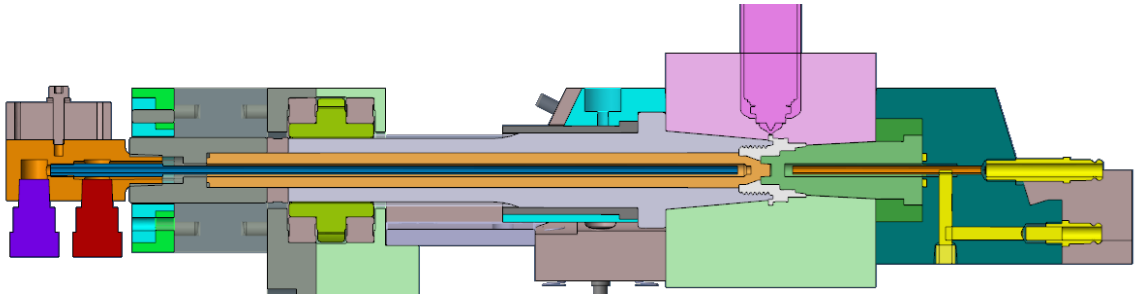
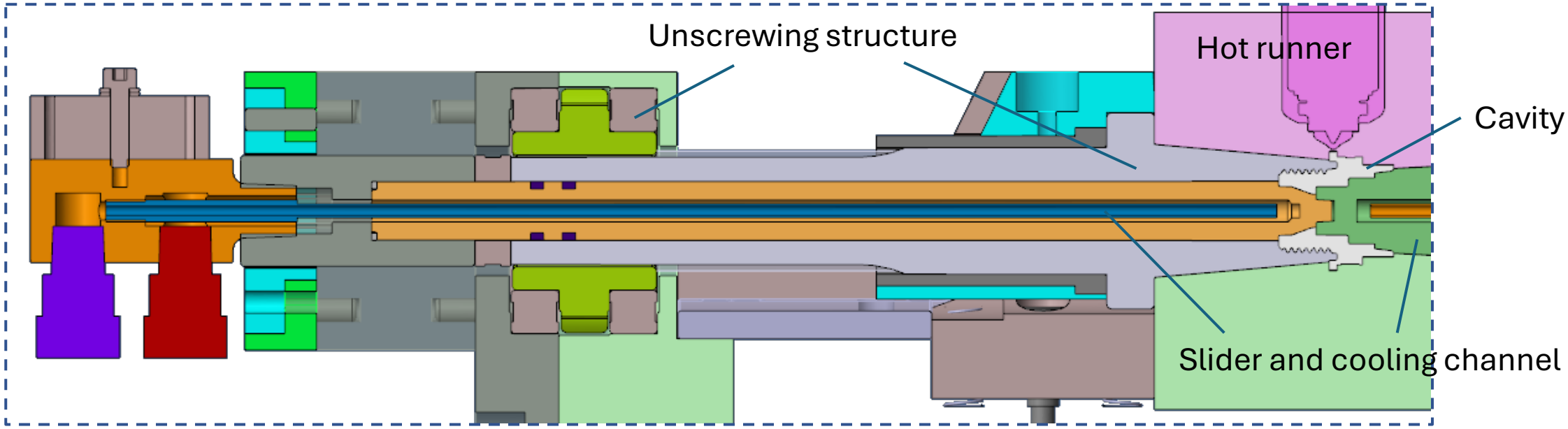
Description and Proposal





Gate location

Description and Proposal

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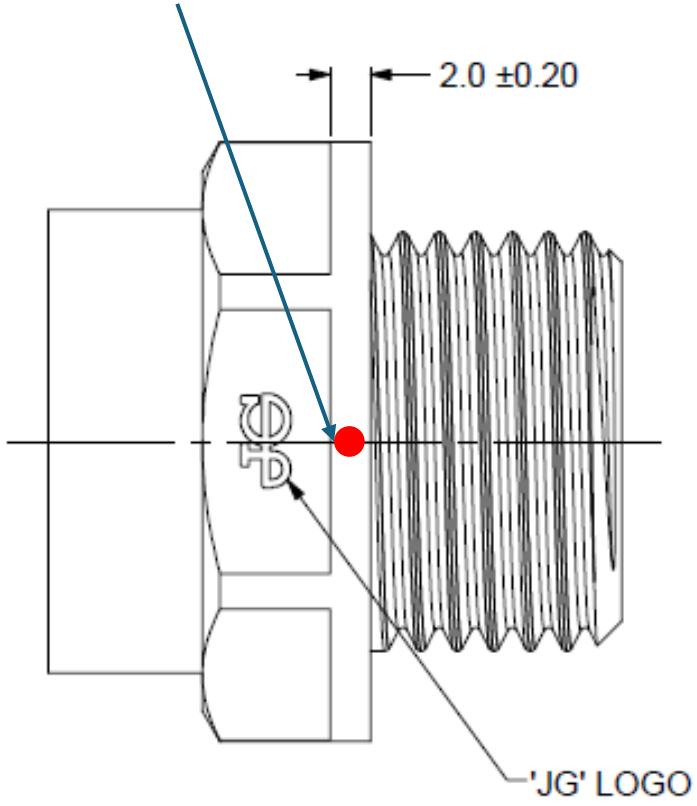
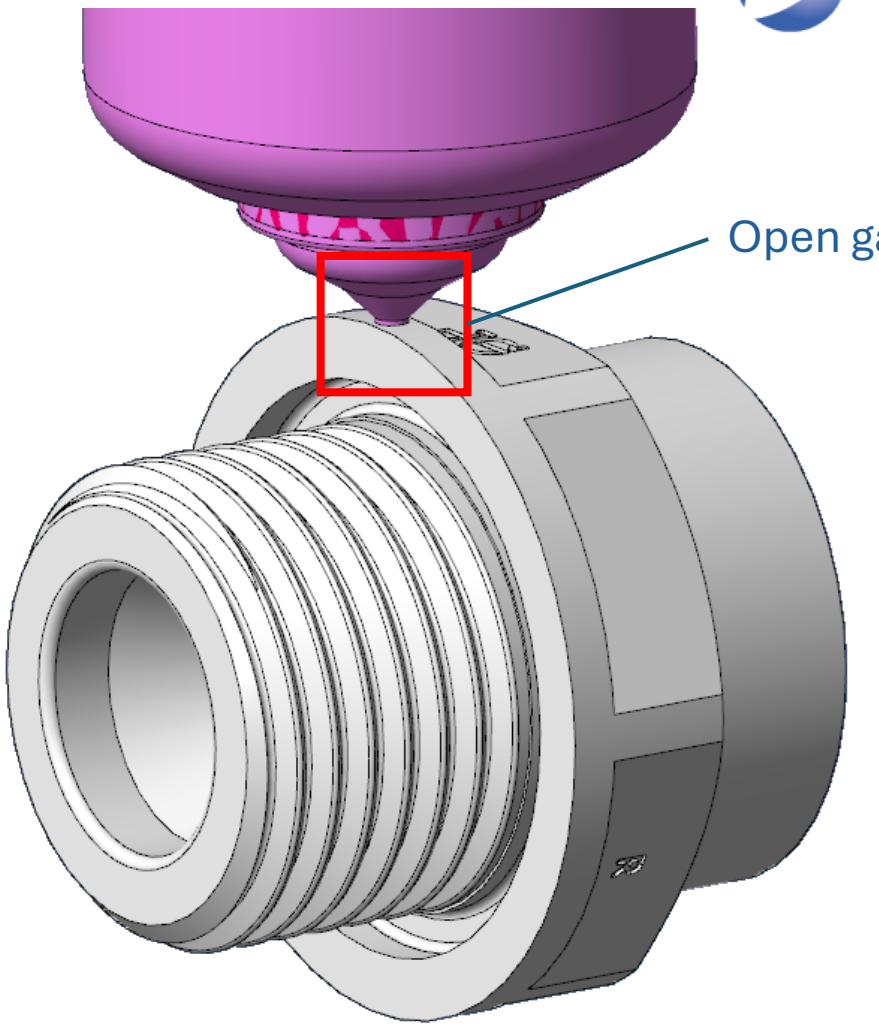
Gate location and gate size is around ø1.8 mm





We plan to set the gate location at red dot area. However, a gate mark will be left at this position.
Please review and confirm if this is acceptable.

Ejector pin location

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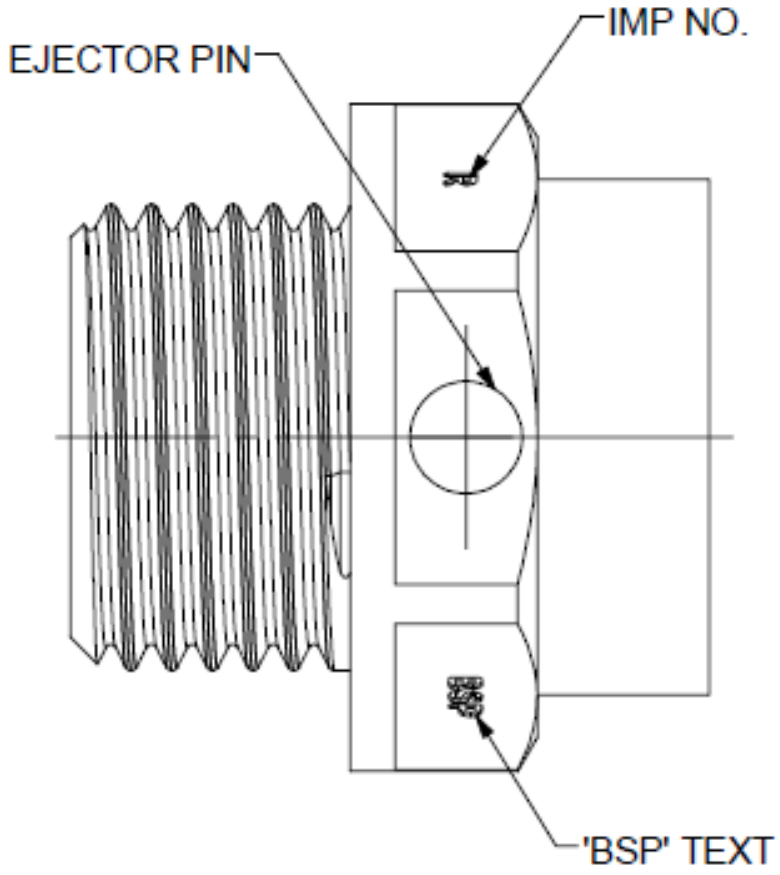
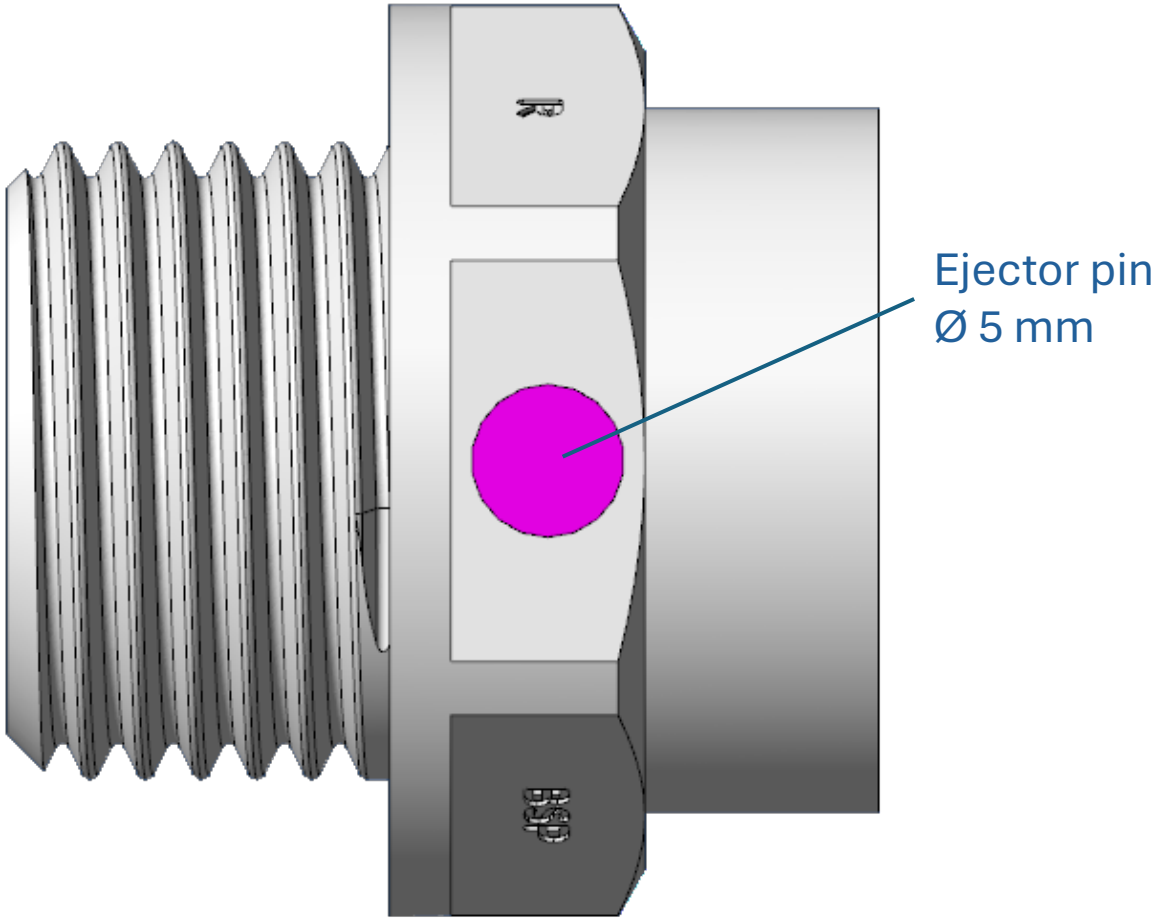
Description and Proposal





We will place the ejector pins according to the drawing.