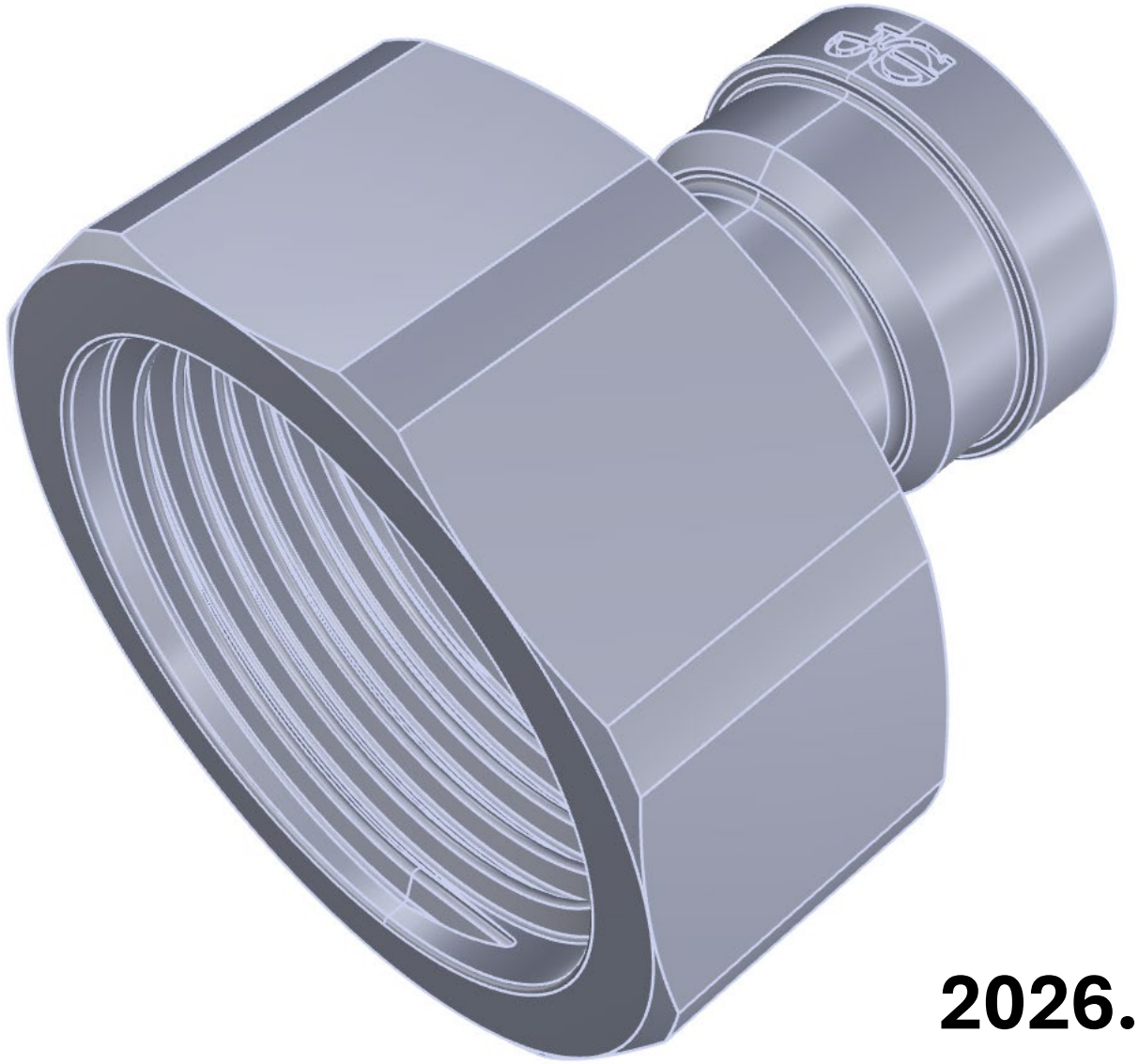
Gateway Corp.



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

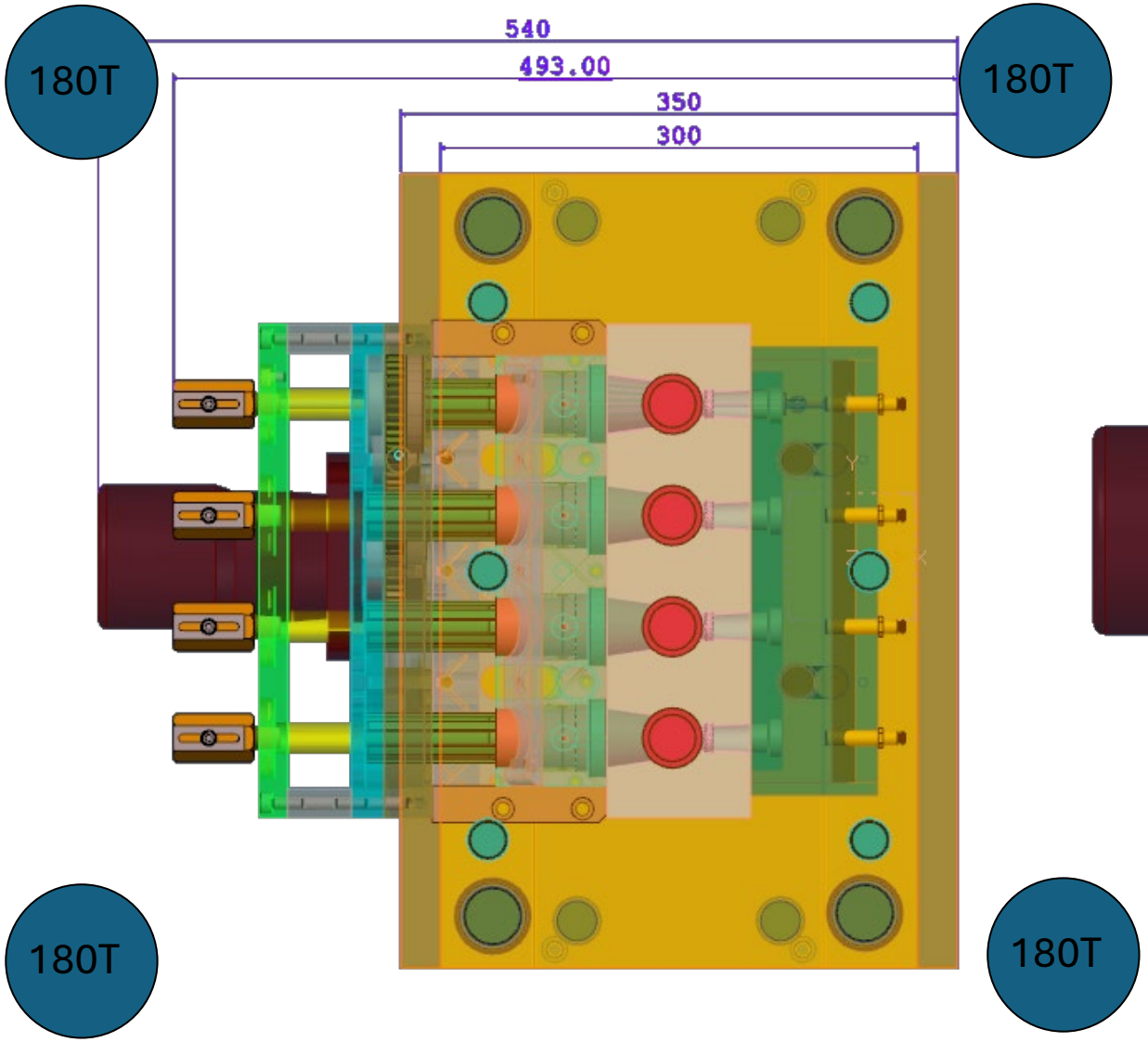
Gateway Corp.

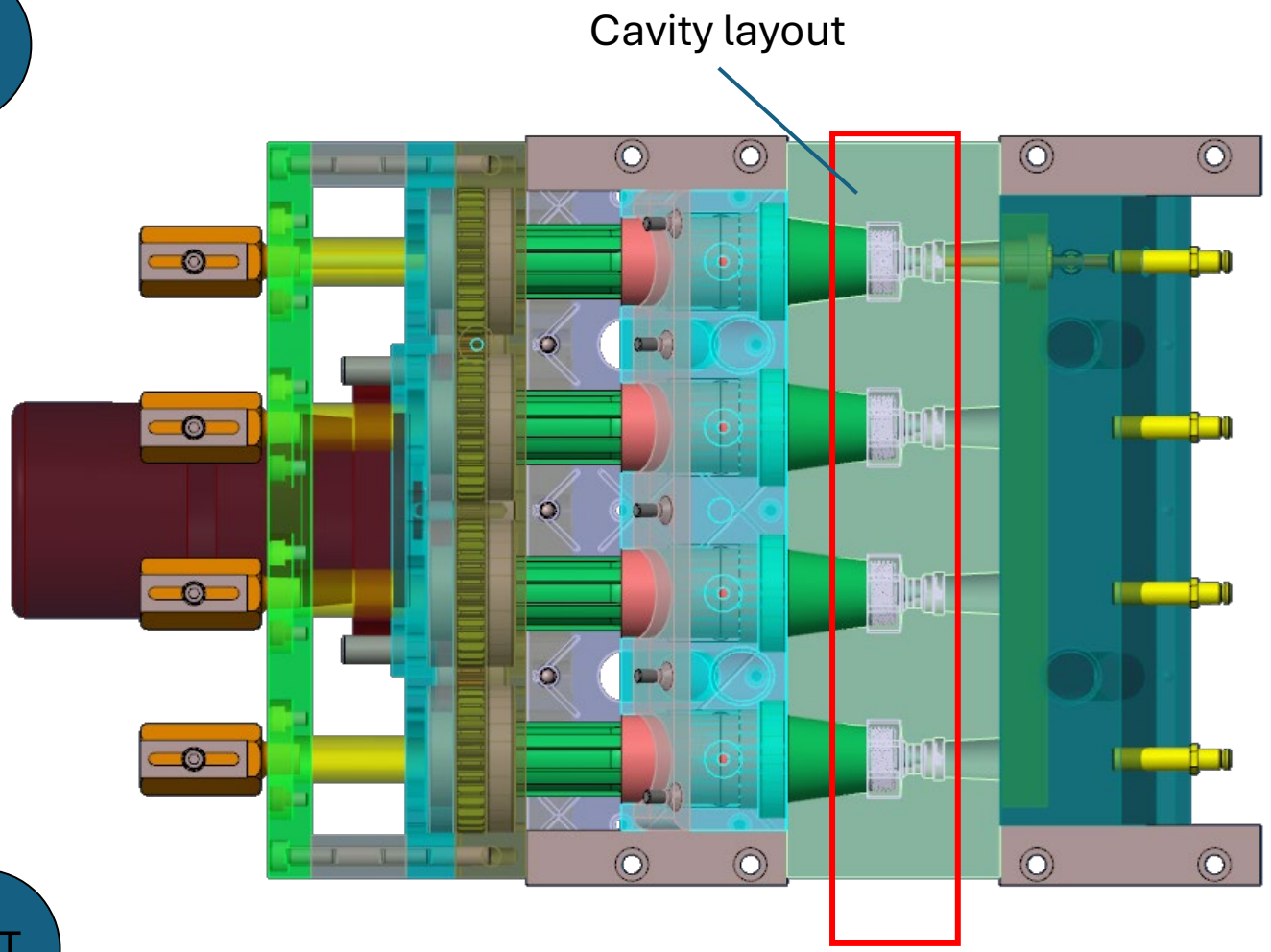
Customer Name	RWC
Part Name	8mm x 3/4 BSP FEMALE ADAPTOR BODY
Material	POM Acetal unfilled
Shrinkage	20/1000
Part No.	CP-45X16H
Cavities	1*4Cav.
Injection concept	Hot Runner System 4 drops for 4 Cav. open gate (YUDO)
Cavity Steel	Finkl D2 Tool Steel / 56~59 HRC
Core Steel	Finkl D2 Tool Steel / 56~59 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





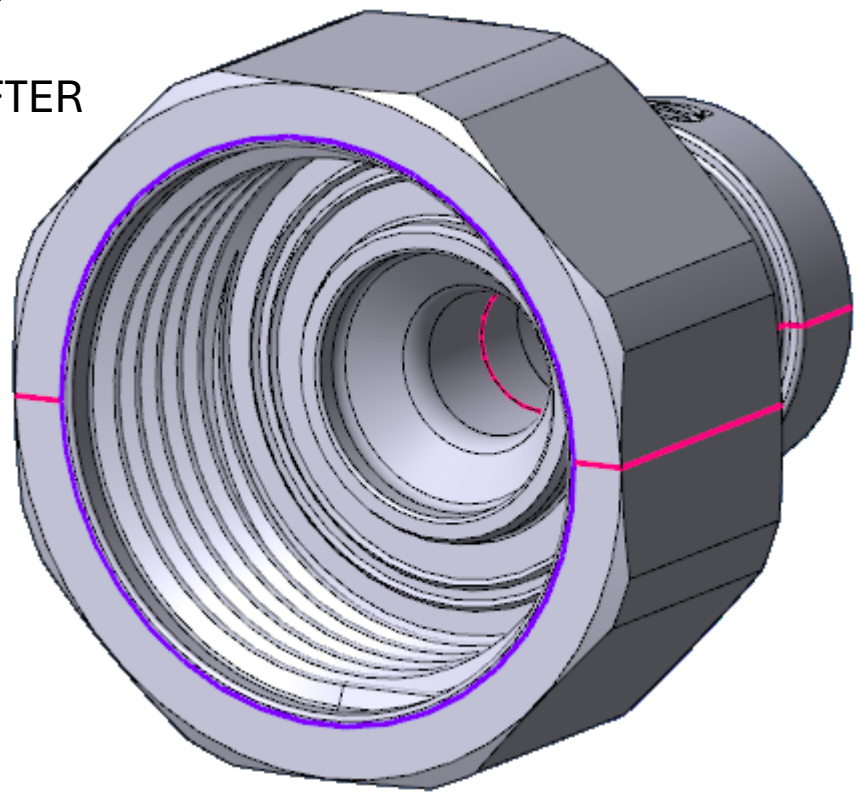
Parting Line Analysis

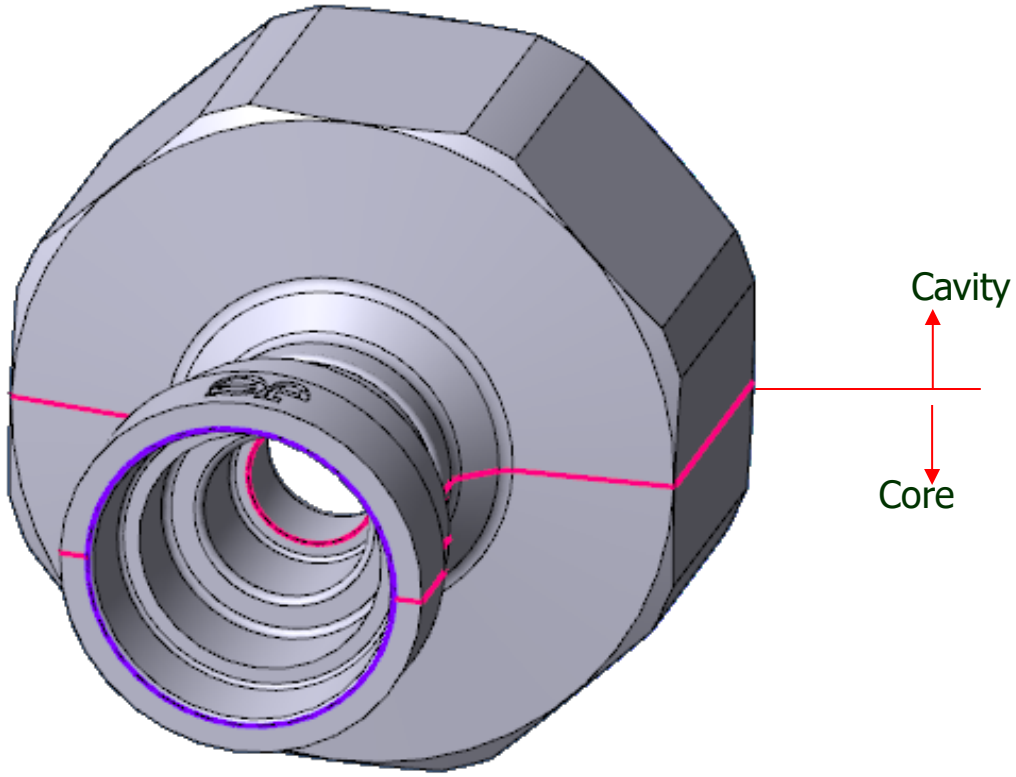
Gateway Corp.

Parting line / Lifter

P.L

LIFTER

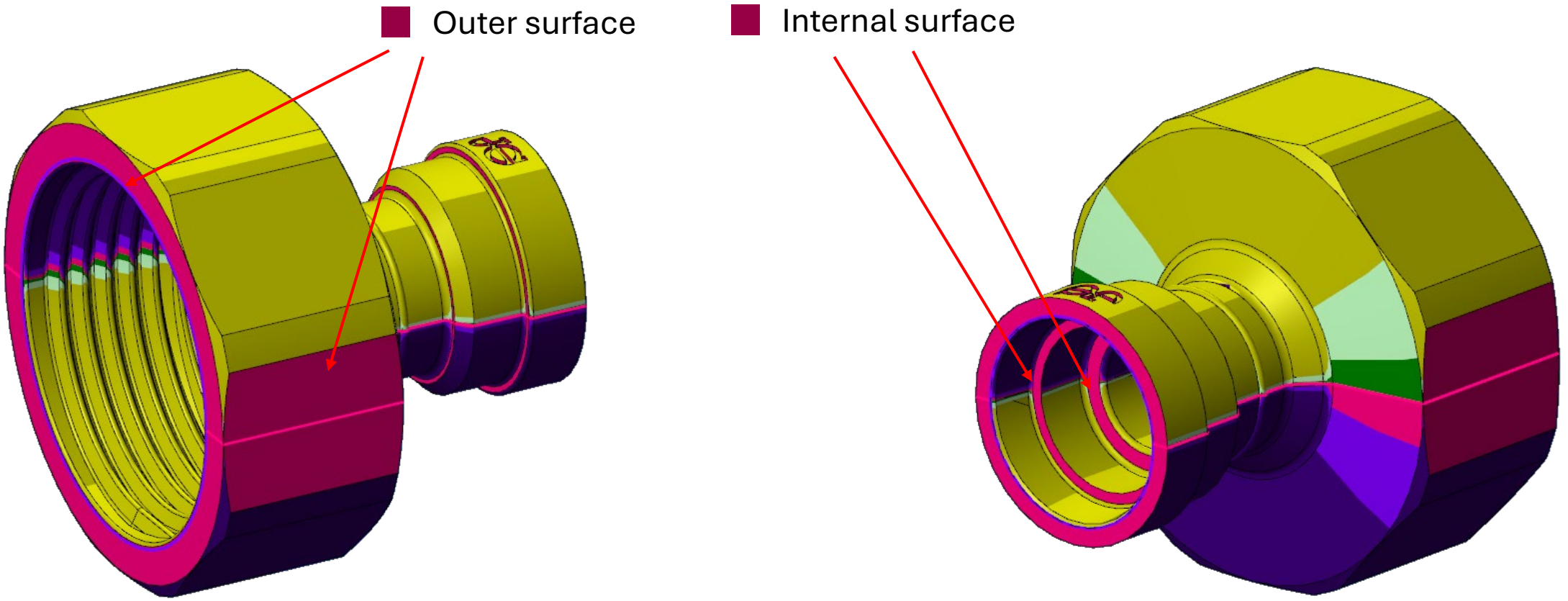




Draft Analysis

Gateway Corp.

Description and Proposal

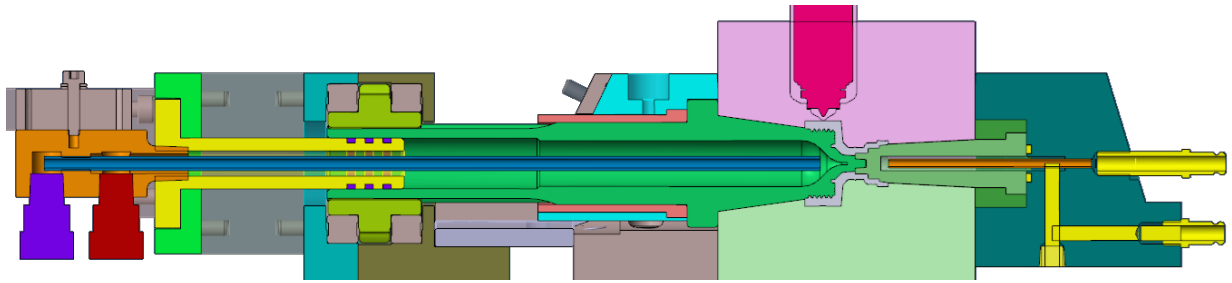


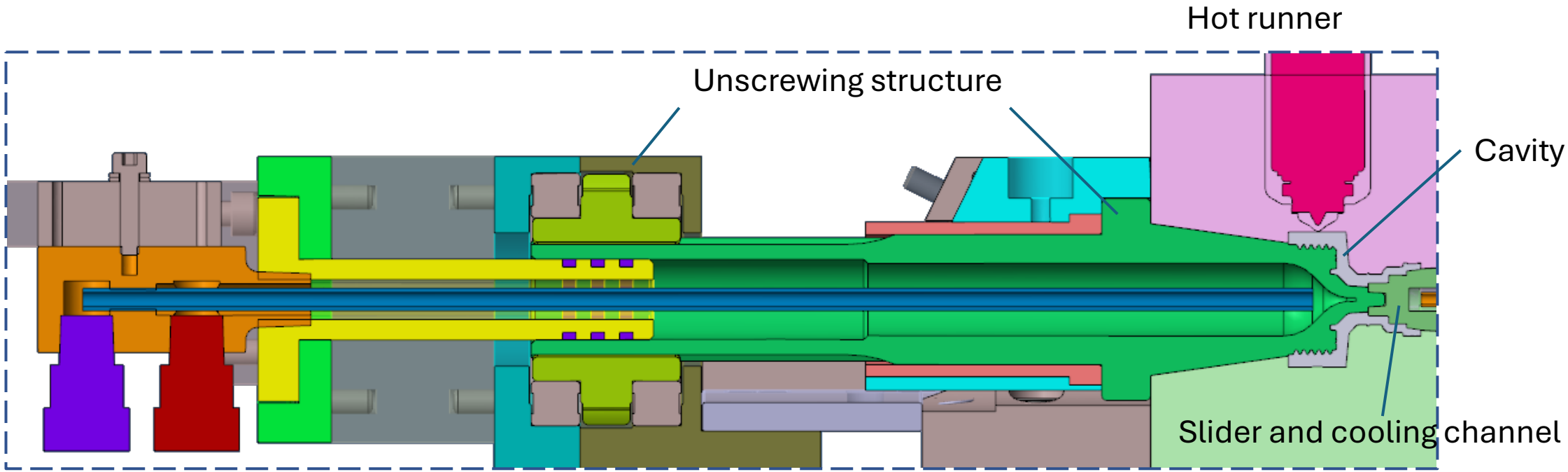
The red surfaces shows no draft angle for model. We suggest adding a 1° draft to avoid drag marks during ejection.
Please review and confirm your approval.

Mold Structure

Gateway Corp.

Description and Proposal



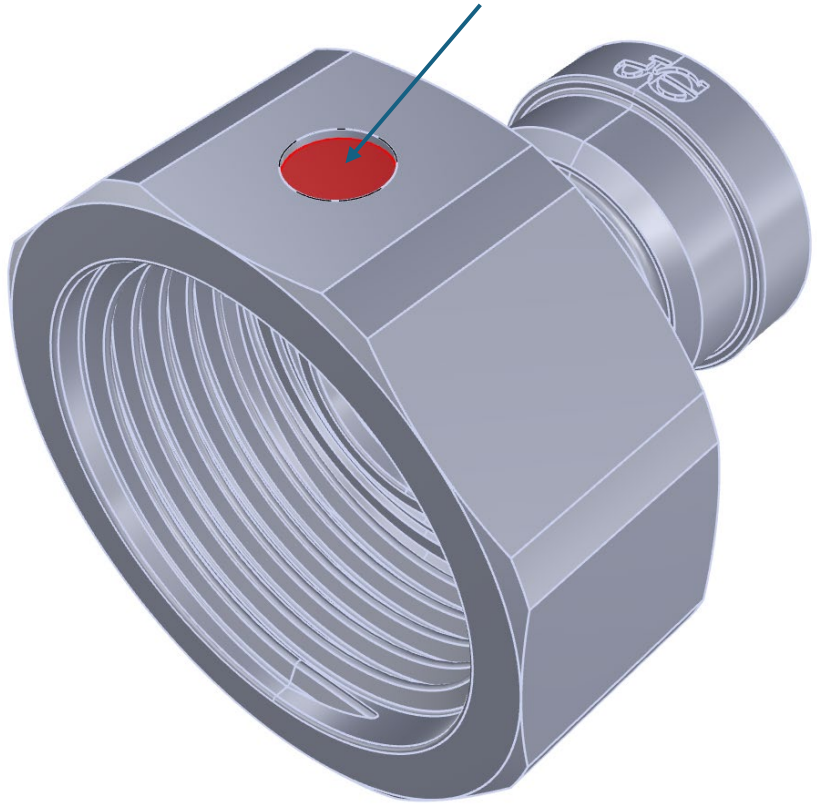


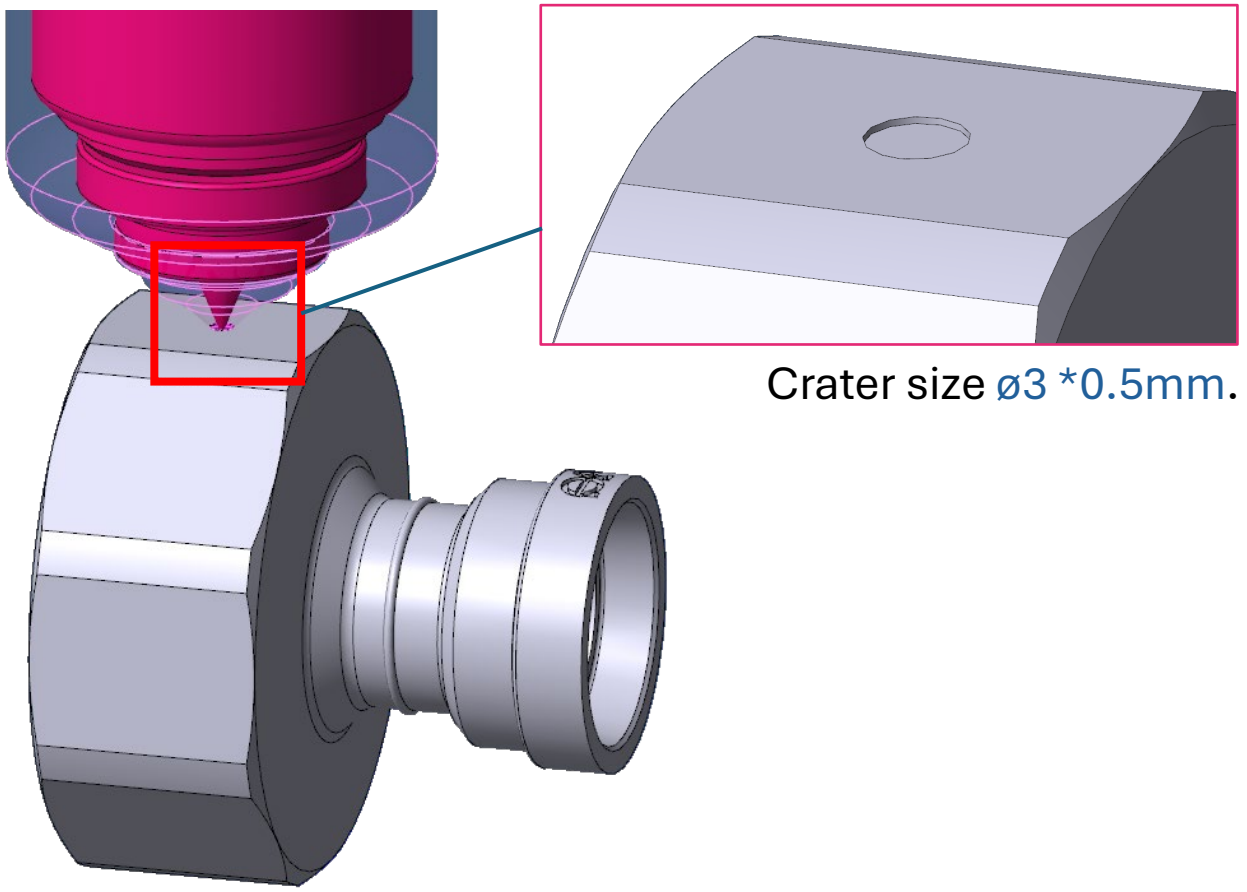
Gate location

Gateway Corp.

Description and Proposal

Gate location and crater size is around ø3 * 0.5mm





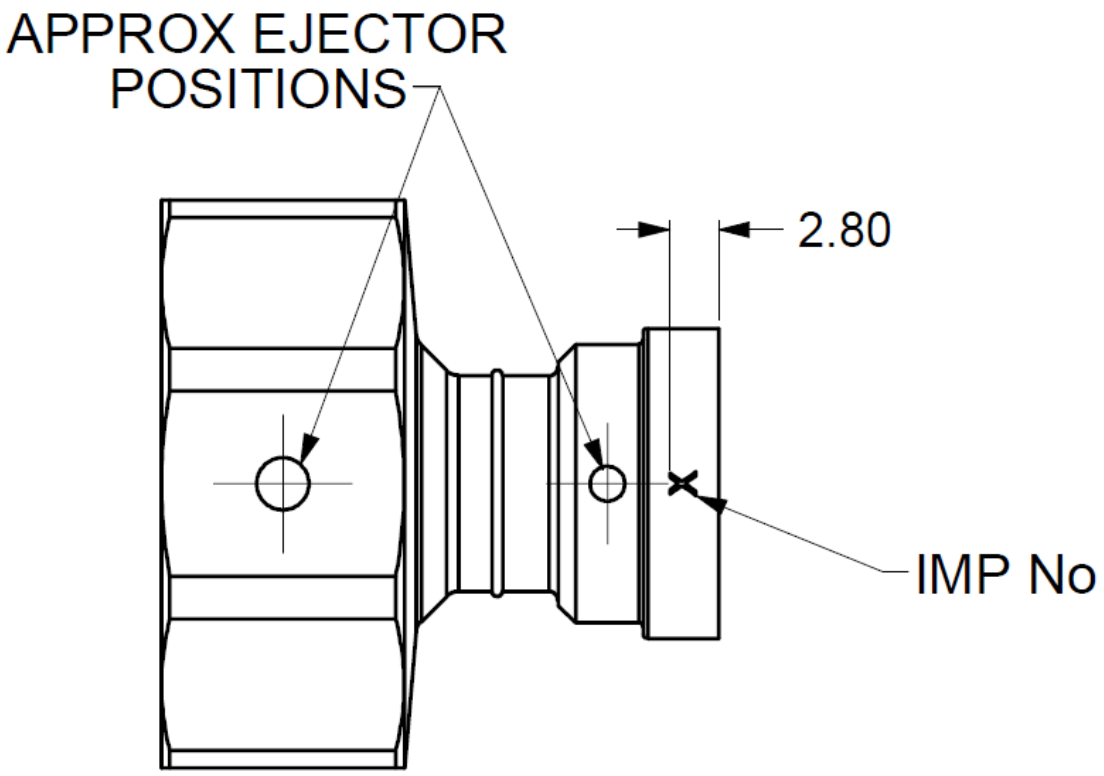
Crater size ø3 *0.5mm.

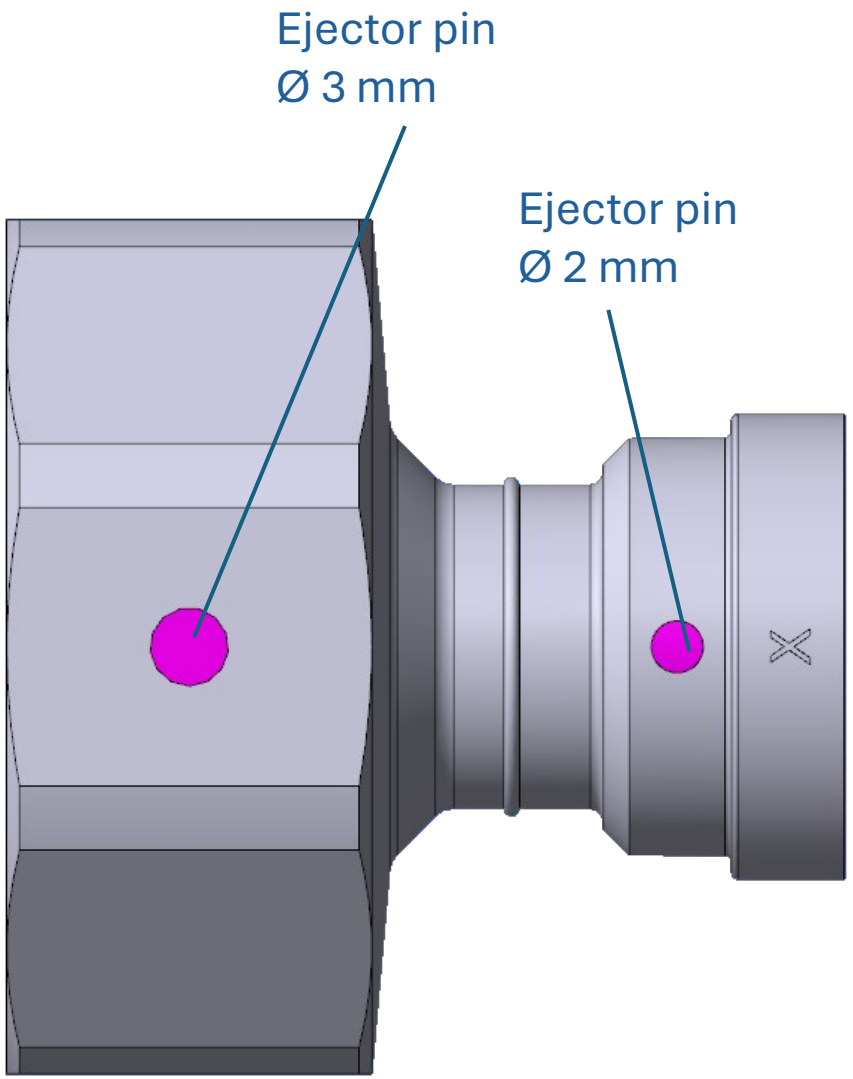
We plan to set the gate location at the red dot area and add a 0.5 mm deep crater.
Please review and confirm if this is acceptable.

Ejector pin location

Gateway Corp.

Description and Proposal





We will place the ejector pins according to the drawing.