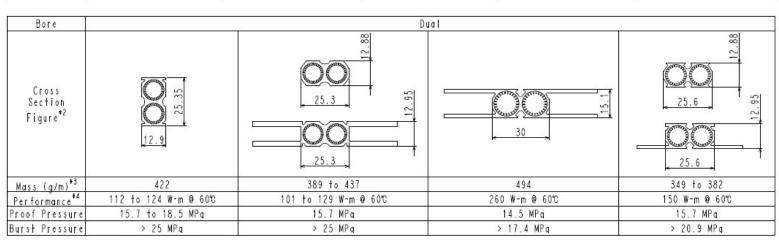
Heat Pipe

■ MELCO Heat Pipe Standard Lineup

Single-bore

Воге	Single*1				
Cross Section Figure ^{‡2}	14.73 14.73	23 23 (adjustable) (adjustable)	25.35 (adjustable)	14.2	Ø
Mass (g/m)*3	217 to 271	209 to 265	385	277	54
Performance*4	172 W-m @ 60℃	100 W-m @ 60℃	140 W-m @ 60℃	140 W-m @ 60℃	9 W-m @ 100℃
Proof Pressure	9.5 MPa	15.7 MPa	15.7 MPa	8.2 MPa	15.7 MPa
Burst Pressure	> 11.7 MPa	> 20.9 MPa	> 20.9 MPa	> 16.5 MPa	> 20.9 MPa

Double-bore

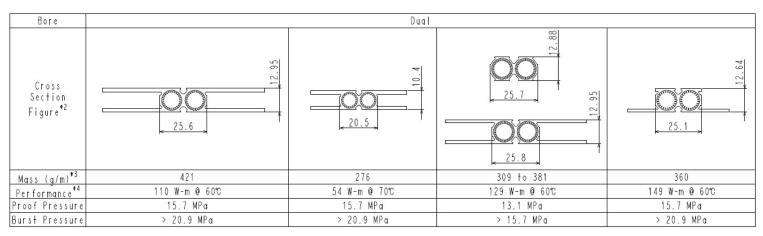


- Notes *1: Dual bore extrusion can be supplied.
 - *2: Flanges can be formed if required.
 - *3: Nominal mass including working fluid (ammonia) but excluding the end caps, fill tubes and flanges
 - *4: Nominal on-orbit performance per bore

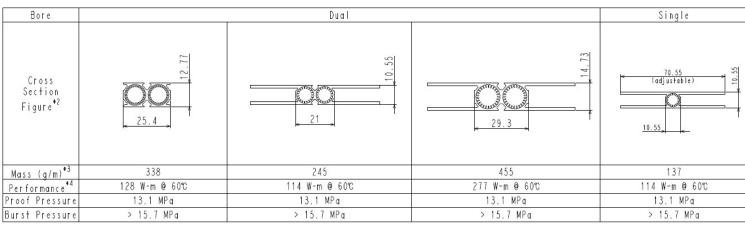
Heat Pipe

■ MELCO Heat Pipe Standard Lineup

Double-bore



Double-bore



- Notes *2: Flanges can be formed if required.
 - *3: Nominal mass including working fluid (ammonia) but excluding the end caps, fill tubes and flanges
 - *4: Nominal on-orbit performance per bore

Heat Pipe

■ 3-D Bent Heat Pipe

- MELCO precision bending techniques for 3-D heat pipes
- Flexible combination of in-plane and out-of-plane bending per customer requirements
- Available for both single and double bore heat pipes
- Launched successfully on several JAXA communication and observation mission satellites





■ 3-D Printed Heat Pipe

- 3D-Printed heat pipes under development
- Intended for use of thermal control inside the heat generating components
- BBM model of groove structure design has been built for assessment and will be qualified by 2025.



3D-Printed Heat Pipe Cross Section (external diameter: 6mm)