Ventilation problems blown away

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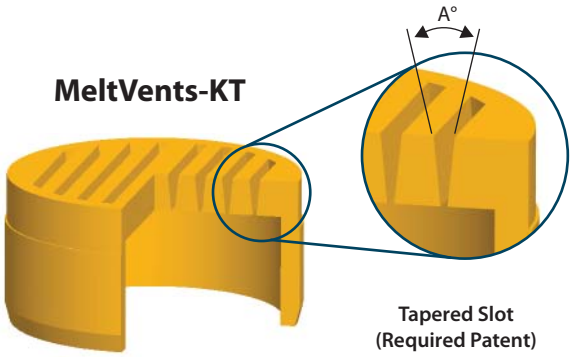
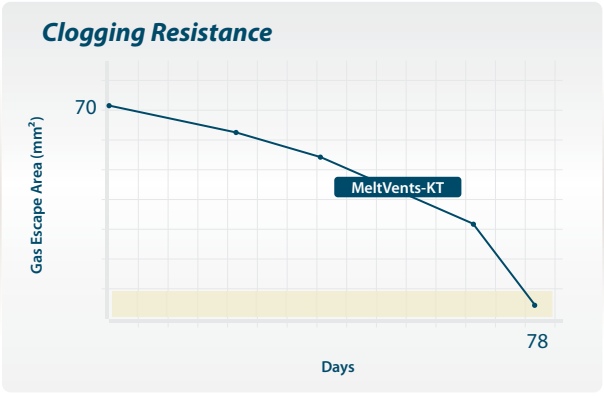
MeltVents-KT

Gravity Casting / Low-Pressure Casting

Super-Self-Cleaning

MeltVents-KT increases the productivity of permanent mold like no other type of vent, because they have exclusive super tapered slots (Required Patent) that reduce aluminum clogging.

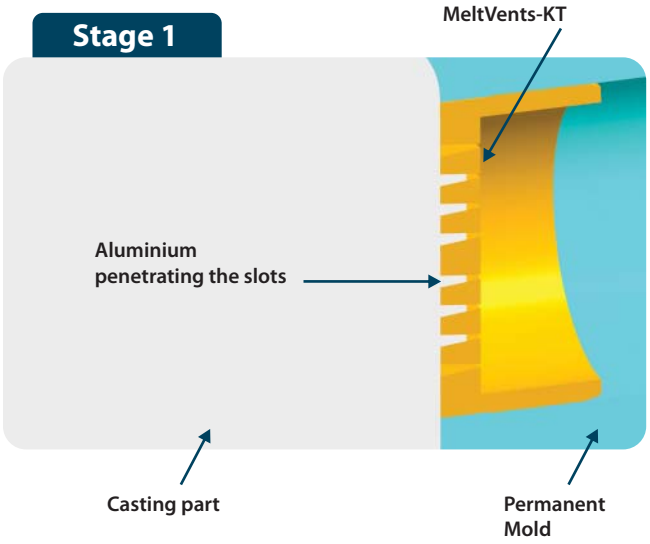




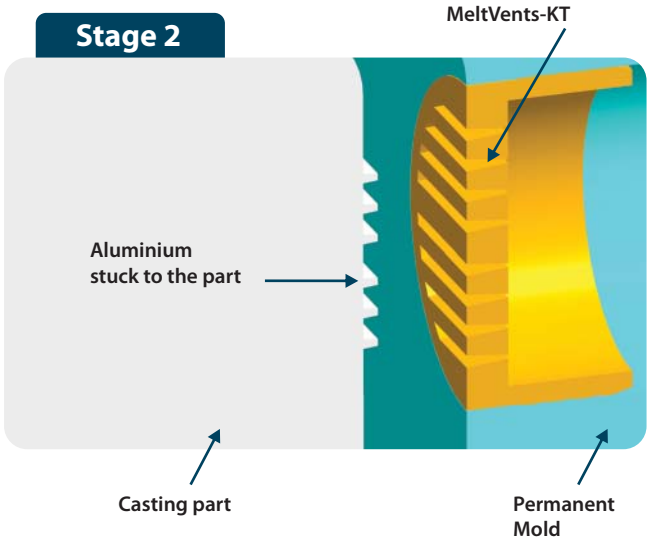
Tests done in gravity casting, using 5 vents with Ø 10mm, demonstrated the great efficiency of the super tapered slots in relation to the aluminum clogging.

Cut illustration in Aluminium casting process

Stage 1 - Mold filling:
Moment when the aluminum touches MeltVents-KT, during the mold filling, causing a slight penetration in the slots with INVERTED taper.



Stage 2 - Extraction stage:
Extraction Stage, showing that the penetrated aluminum did not stuck inside the slots as a result of the draft.



High Resistance

MeltVents-KT

Vents for Permanent Mold in Grafity Casting and Low-Pressure Casting

Ventistamp achieved excellent results producing the MeltVents-KT pattern in Bronze-Aluminum Alloy. It is a high performance alloy because it has:

- Great resistance to high temperature, for this reason, it is also used in the manufacturing of injection pistons of the aluminum injectors.
- A higher thermal conductivity when compared to Stainless Steel Alloys (approximately 250% higher). This feature allows the vent to accelerate the aluminum cooling process, what reduces the aluminum fluidity and avoids its penetration into the slots.

Advantages:

1. *Maximum clogging resistance*
2. *Longer life span*
3. *Better quality of the casting part*
4. *Greater productivity of permanent mold*

Standard dimensions:

Ideal for Low-Pressure Casting:
Slot: 0,1 mm

Part No.	Diameter	Height
KTM10H10-06	6 mm	10 mm
KTM10H10-08	8 mm	10 mm
KTM10H10-10	10 mm	10 mm
KTM10H10-12	12 mm	10 mm
KTM10H10-14	14 mm	10 mm
KTM10H10-16	16 mm	10 mm
KTM10H10-20	20 mm	10 mm

Ideal for Grafity Casting:
Slot: 0,2 mm

Part No.	Diameter	Height
KTM20H10-04	4 mm	10 mm
KTM20H10-05	5 mm	10 mm
KTM20H10-06	6 mm	10 mm
KTM20H10-08	8 mm	10 mm
KTM20H10-10	10 mm	10 mm
KTM20H10-12	12 mm	10 mm
KTM20H10-14	14 mm	10 mm
KTM20H10-16	16 mm	10 mm
KTM20H10-20	20 mm	10 mm

Other dimensions may be available on special request.

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