LBGV-X

Cavity Inserts for Gas Release Harmonica Shape Large

Part Number

Cavity Inserts for Gas Release List

Shape type	Shape	Size lineup	Material	Part Number	Characteristics	
Harmonias		A (Length): 100 B (Width): 70 to 100 T (Height): 60 to 120	SUS420J2 or equivalent	LBGV-X	A product for large molds with excellent corrosion resista Suitable for use with super engineering plastics and engineering plastics.	
Harmonica		A (Length): 40,80 B (Width): 40 to 80 T (Height): 12 to 80	S50C	BGV	A product for medium-sized or smaller molds. Also suitable for use with general-purpose resin.	
Round shape	, câta	D (Diameter): 6, 8, 10 L (Length): 10, 12, 15	SUS440C	BGVS	Excellent corrosion resistance, releasing gas from the round outer slit.	

How to Mount

(See Example)

When Using

clogging.

hard object.

Harmonica Shape Overview

ex

Fixed side

Movable side

Back up plate

Example

Molding products

Features

PI

- A specific number of plates given gas release groove (S) processing is combined to make a gas release cavity insert block. (Figure 1)
- Clogged resin or tar can easily be removed by removing the fixing bolt (MSB) and disassembling during maintenance.
- · Gas as well as air is released from the 0.03 or 0.05mm groove, lowering flow resistance and facilitating molding.
- The vent surface can be processed to suit the shape of finished products. (See Example)
- · Effective in releasing gas during mold processing in medium to large size molds.

3. We recommend the addition of a relief groove in order to decrease resin clogging

4. A/B dimension tolerances are positive. Insert into mold by actual fitting process. 5. A tap hole is added on the bottom of the cavity insert. It is for fixing the insert.

1. In BGV, groove thickness (S) can be selected. Select 0.03 for groove depth when

insert in the blueprint when processing the vent surface, to avoid problems.

3. Note that tapering on the vent surface enlarges the groove area and may cause

4. Positioning should be carefully done since groove shapes may appear on the

5. This product achieves dimensional precision by performing the final machining in

the shape of a block which is a combination of plates with gas release grooves.

Be sure to reassemble in original order if you happen to disassemble it. You can

identify the correct order by the diagonal 0.1 mm depth V groove on the bottom of

the insert. Slight imbalance may occur due to precision error in shoulder bolt and

hole. Thus assembly should be done on a flat surface with dimension fitting.

6. Each plate for BGV is raw material. Note that it will be damaged if struck with a

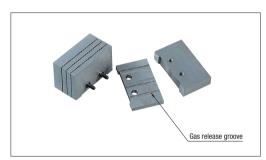
finished product depending on the groove depth and the kind of resin.

resin has a high fluidity, and 0.05 when resin has a low fluidity. 2. Be sure to identify bolt hole and tap hole (BGV only) on the inside of the cavity

in the gas release groove. Ideally, a relief groove should be added by alteration of approximately 0.5 to 1.0 mm thickness, leaving 5 to 12 mm of the gas release

1. Insert where gas is apt to collect such as final filling section. 2. Process the vent surface to suit product type as necessary.

groove from the vent surface. (Figure 2)



LBGV



Fig.1

0.5~1.0mm Gas release groove 5~12mm Relief groove Example 1. Machining a relief groove on existing gas release groove. Vent surface Gas release groov fter processing 5∼12mm 0 0 Relief groove

Fig.2: Cavity Inserts for Gas Release Example of relief groove addition

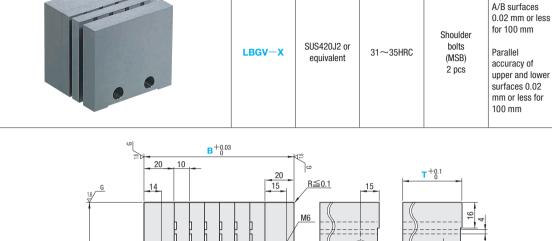
Example 2. Machining a relief groove on each plate parallel to

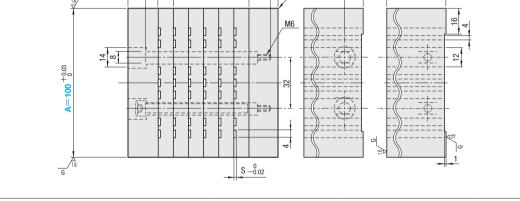
Round Shape Overview

the vent surface.

Squareness for

Hardness Accessories Precision Standard





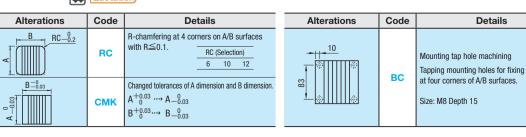
Number of	Number of grooves	Supplied bolts	s	Part Number	в	- -	
plates				Туре	Α	D	I
5	21	MSB8 — 40	0.03	LBGV—X	100	70	100 120
6	28	MSB8 — 50				80	
7	35	MSB8 — 60				90	
8	42	MSB8 — 70				100	

Part Number Orde LBGV-X100





в



Details