

Ⓜ Non JIS material definition is listed on P.1359 - 1360

RoHS

MSTV

Ⓜ ① Sleeve (body): SUS303
 ② Valve: SUS303
 ③ Spring: SUS type
 Operating temperature limit: 200°C

Cross-sectional view

Details of part A

D=2

D=(3 · 6)

D=2

D=(3 · 6)

Open valve **Closed valve**

Head diameter H	Tip			Stroke st	Gas exhaust clearance t	Spring dia. d	(Spring load) N	Part Number			U/Price 1~6	
	d1	d2	h					Type	D	L		F
4	1.0	0.9	0.3	0.05~0.1	0.03~0.06	2.9	0.68	MSTV	2	20	—	Quotation
5	1.0	0.9		0.2~0.3	0.1~0.15	2.9	0.68		3	20	0.3	
8	1.5	1.3	0.3~0.4	0.15~0.2	3.8	1.96	6		25	0.5		

Order Part Number — L — F
 MSTV2 — 20
 MSTV3 — 20 — 0.3

Price **Quantity discount rate** P.45

Quantity	1~6	7~20	21~30
Rate	—	5%	10%

Ⓜ To be quoted on price & lead time above Max. Q'ty.

Days to Ship **1** Day
 Ⓜ Delivery days depend on subsidiary. P.45

Characteristics

- Effective gas exhaust
 - reduces molding defects. (reduction of burns, shrink, poor potting, weld lines, etc.)
 - can shorten a molding cycle.
- Being made of stainless steel, it is resistant to corrosion.

Notes on handling

- Resin leak from the valve and burrs may occur depending on the molding condition and the type of resin.
- Select a mounting location carefully because the shape of the gas vent unit will be transferred on the surface of mold products.
- Cleanse the resin gas exhaust passage and the gas vent unit periodically.
- For the shape of a gas exhaust passage, refer to the right diagram.
- Take the tip protrusion (value F) into account for a residence area of resin gas to specify L1.

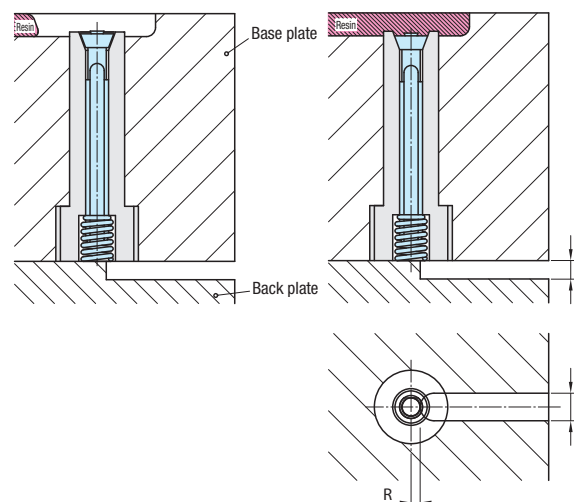
Processing example of dimensions for gas exhaust passage

Part Number	Type	D	s × w		ℓ
			Cross-sectional area of the gas exhaust passage		
MSTV	2	20	s=0.5 or longer 0.85mm ² or larger	Specify the spring seating surface that is 3/4 or longer of the entire perimeter.	
	3	20	s=0.5 or longer 0.85mm ² or larger		
	6	25	s=0.5 or longer 2.30mm ² or larger		

Operation principle

The spring opens the valve and gas that resins produce and air in the mold is exhausted.

When resins reach the valve, the valve closes by resin pressure and exhaust finishes.



MSTVS

Ⓜ When T dimension is 15 or smaller, V1=V No discrimination groove

Ⓜ SUS303

MSTVM

Ⓜ SUS304 equivalent

V	V1	Part Number	T	U/Price 1~6
1.5	2	MSTVS	5	T5.0~25.0
2	2.5		8	T25.1~50.0

Order Part Number — T
 MSTVS5 — 19.5

Days to Ship **3** Days **Express A** P.46
 Ⓜ Delivery days depend on subsidiary. P.45

Alterations Part Number — T — (TK)
 MSTVS5 — 18.95 — TK

Alteration	Code	Spec.	1Code
TK	TK	Changes T dimension tolerance. T+0.1 ... T-0.02 Ⓜ When TK is used, T dimension alteration in 0.01mm increments possible	Quotation

φ D	Hex (S)	V	M (Coarse thread)	Part Number	T	U/Price 1~6
3	4	1.5	8 (P1.25)	MSTVM	3	12
6	5	2	10 (P1.5)		6	15

Order Part Number — T
 MSTVM6 — 15

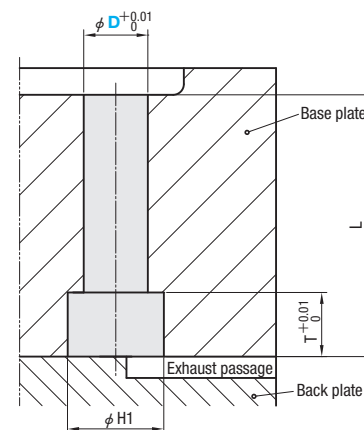
Days to Ship **1** Day
 Ⓜ Delivery days depend on subsidiary. P.45

Price **Quantity discount rate** P.45

Quantity	1~6	7~20
Rate	—	5%

Ⓜ To be quoted on price & lead time above Max. Q'ty.

Example of dimensions for molding holes (for MSTV)

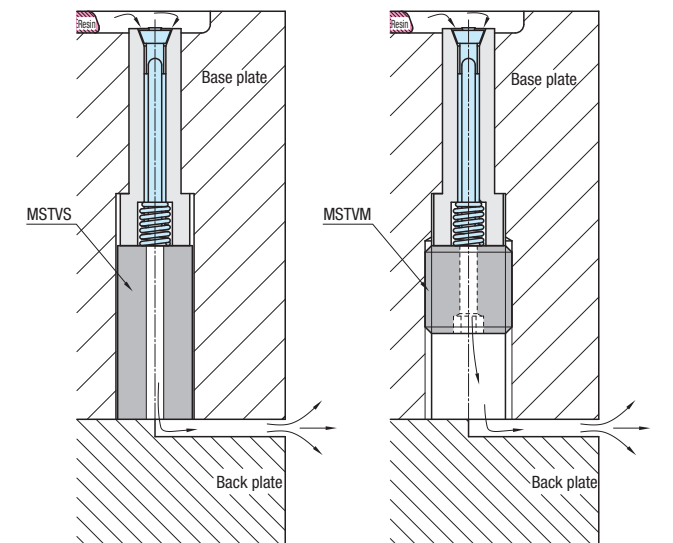


Part Number	Type	D	L	Tip protrusion F	T	H1
MSTV	2	20	—	—	6	5 ※
	3	20	0.3	—		6
	6	25	0.5	—		8.5

※If you use the spacer for gas vent unit MSTVS or MSTVM for the gas vent unit MSTV2—20, H1=6 and use MSTVS5/MSTVM5.

EX Example

- If the base plate is thick for L dimension, use spacer (MSTVS · MSTVM), etc.
- If you use MSTVM and you are concerned about the case it loosens, take measures against loosening such as double lock.



Date Marked Pins
Recycle Marked Pins
Pins with Gas Vent