

G20F Vent Valve Quick Connector

ONE-STOP CONNECTION

Low-Pressure Use | No Surface Damage | Handle Operation |

The G20F series is a dedicated connector for vent valves, widely used in various battery packs. It is easy to use: align with the vent valve bayonet and fold the handle down to complete the connection.



Vent Valve Face Seal Connection Solution

- * Hook-on retention: safe and reliable
- * Handle operation: simple and effort-saving
- * Aluminum body: light and robust
- * Self-adjusting spring for a longer service life
- * Magnetic disc / suction cup valve opening for easy venting

G20F Series Quick Connector Features

1. Handle operation

Simple operation: align with the vent valve bayonet and fold the handle 90° to form a seal.

2. Face seal

Reliable sealing, easy seal replacement and simple maintenance.

3. Magnetic / suction cup design

Opens the vent valve for easy venting.

4. Aviation-grade aluminum

The connector housing is made of aviation-grade aluminum: lightweight and durable, ensuring connector life while reducing operator effort

Selected Bodies



G20F-PBA2K-42



G20F-PBAL-M40



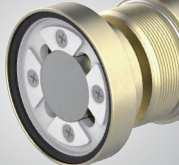
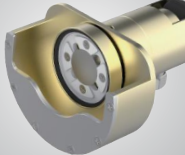
G20F-PMCM12

G20F Vent Valve Quick Connector

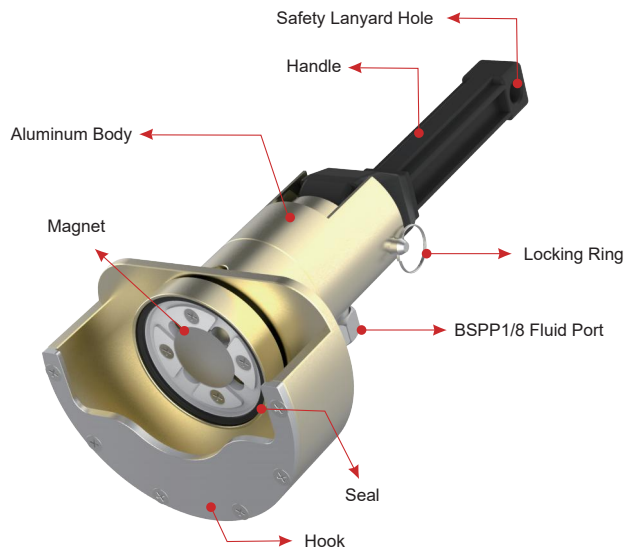
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G20F Quick Connector Advantages and Features

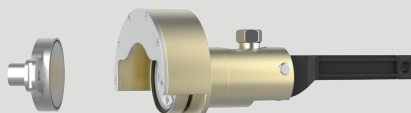
 Self-adjusting spring: Seal pressure adjusts automatically to the bore easy venting diameter, extending service life	 Magnetic / suction cup design: Opens the vent valve for	 Face seal: Reliable sealing; the seal is easy to replace, simplifying maintenance	 Aluminum Body: Lightweight and durable, reducing operator fatigue	 Handle operation: simple and effort-saving
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G20F Quick Connector Specifications

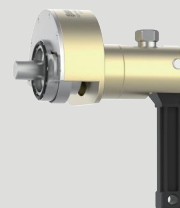


Max. Op. Pressure	Vacuum to 50 kPa
Sealing Range	Customised to the vent valve
Flow Port	BSPP1/8 Threaded Port
Material	Aluminum
Main Seal	Neoprene
Valve Opening Method	Magnet / Suction Cup
Operating Temp.	-20 °C to +120 °C

G20F Operation Demo



1. Fit the front of the connector onto the vent valve to be sealed



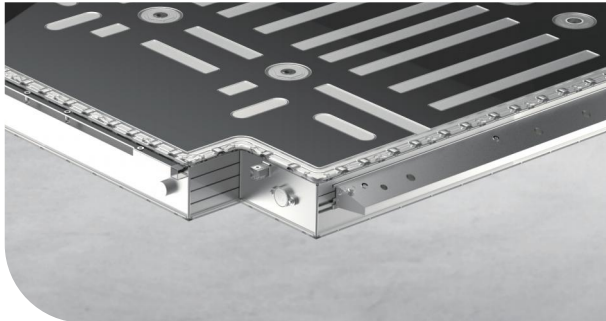
2. Fold the handle down to form the seal

G20F Vent Valve Quick Connector

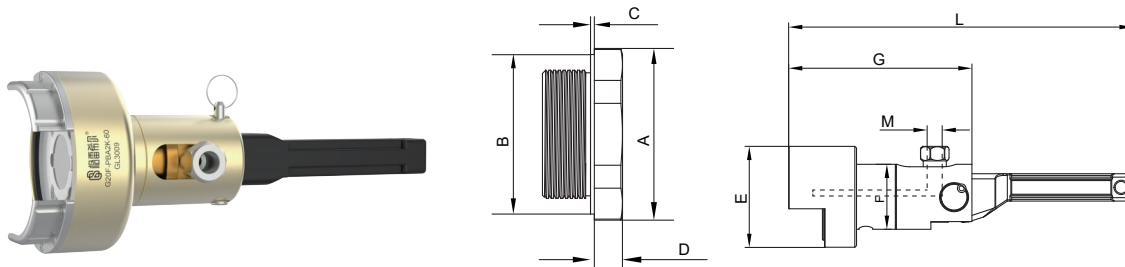
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Application Cases



Vent Valve



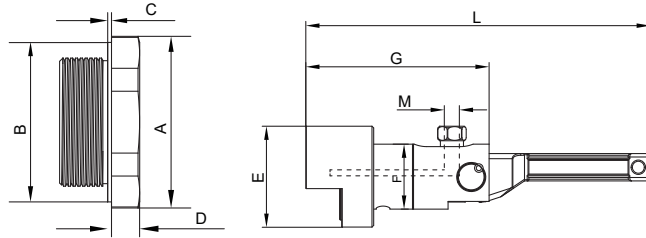
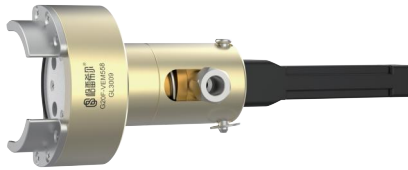
Magnetic Vent Valve

Vent Valve Model	Model	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Dim. G	Dim. L	Fluid Port M	Seal No.
PMCM-12*1.5/11-210723	G20F-PMCM-M12E	21	18.2	1	5.8	26	-	-	49	-	SG20F-PMCM-M12E
PMCM-M16E	G20F-PMCM-M16E	29	24.4	3.8	6.2	34	38	89.1	183.3	BSPP1/8	SG20F-PMCM-M16E
PBAL-M20E	G20F-PBAL-M20E	30.3	27.9	1.5	8	36	38	90.9	184	BSPP1/8	SG20F-PBAL-M20E
PBAL-M20E-15D	G20F-PBAL-M20E-15D	30.3	27.9	1.2	10.8	36	38	90.9	184	BSPP1/8	SG20F-PBAL-M20E-15D
PBA2K-42	G20F-PBA2K-42	41.8	69.9	1.8	6.1	83.8	38	95.8	190	BSPP1/8	SG20F-PBA2K-42
PBA2K-42	G20F-PBA2K-42-SKQ	41.8	69.9	1.8	6.1	83.8	38	95.8	190	BSPP1/8	SG20F-PBA2K-42-SKQ
PBA2K-42JZ	G20F-PBA2K-42JZ	41.8	69.9	1.8	6.1	82	38	125.5	219.7	BSPP1/8	SG20F-PBA2K-42JZ
PBAL-M32E	G20F-PBAL-M32E	46	42	2.5	7.5	58	38	99.2	193.4	BSPP1/8	SG20F-PBAL-M32E
PBA4K-50	G20F-PBA4K-50	49.6	46.6	2	5.3	58	38	98.5	192.7	BSPP1/8	SG20F-PBA4K-50
PBA2K-50G	G20F-PBA2K-50G	49.8	47.4	1.5	4.5	64.5	38	98	192.2	BSPP1/8	SG20F-PBA2K-50G
D50-M5B	G20F-D50-M5B	50	46	1.8	6.8	58	38	100.6	194.8	BSPP1/8	SG20F-D50-M5B
PBAL-M40E	G20F-PBAL-M40E	53.6	49.8	1.2	8.8	58	38	107.2	201.4	BSPP1/8	SG20F-PBAL-M40E
PBA2K-60	G20F-PBA2K-60	59.8	57.6	1.6	4.6	73.5	38	93.8	188	BSPP1/8	SG20F-PBA2K-60
PBA2K-60	G20F-PBA2K-60G-LTNM	59.8	57.6	1.6	4.6	73.5	38	93.8	188	BSPP1/8	SG20F-PBA2K-60G-LTNM
PBA4K-70	G20F-PBA4K-70	70	67	2	6.5	83.8	38	100.2	194.4	BSPP1/8	SG20F-PBA4K-70

G20F Vent Valve Quick Connector

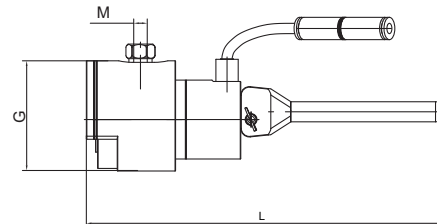
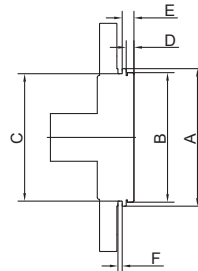
ONE-STOP CONNECTION

Low-Pressure Use | No Surface Damage | Handle Operation |



Magnetic Vent Valve

Vent Valve Model	Model	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Dim. G	Dim. L	Fluid Port M	Seal No.
VALVE-M12E	G20F-VALVE-M12E	17	17	1	10	34	38	57.5	149.4	BSP1/8	SG20F-VALVE-M12E
BBG-M12E	G20F-BBG-M12E	19.6	17	1	10.2	32	32	78.9	177.2	M5	SG20F-BBG-M12E
VEM615	G20F-VEM615	24	22	1.7	4.9	38	38	94.4	188.7	BSP1/8	SG20F-VEM615
VOIR-M16E	G20F-VOIR-M16E	24.5	20	2	10.6	42	42	106	193.3	-	SG20F-VOIR-M16E
SKQ-M16E	G20F-SKQ01-M16E	24.5	-	-	11.6	40.5	40.5	107	208.8	BSP1/8	SG20F-SKQ01-M16E
PRV-2.5	G20F-PRV-2.5	27.5	25.5	R1.8	5	34	38	90.9	184.4	BSP1/8	SG20F-PRV-2.5
VEM378A	G20F-VEM378A	41.8	69.9	1.8	6.1	83.8	38	95.8	190	BSP1/8	SG20F-VEM378A
SST-M32E	G20F-SST-M32E	45	42	1.3	8.7	58	38	99.7	194	BSP1/8	SG20F-SST-M32E
M32E-HJ01	G20F-M32E-HJ01	46	41.4	1.6	4.3	58	38	99.1	193.4	BSP1/8	SG20F-M32E-HJ01
CHIKU-M32E	G20F-CHIKU-M32E	46	33.6	3.8	7.6	58	38	98.9	193.2	BSP1/8	SG20F-CHIKU-M32E
VEM621	G20F-VEM621	49.6	46.6	2	5.3	58	38	98.5	192.7	BSP1/8	SG20F-VEM621
VEM482V	G20F-VEM482V	50.7	47.1	1.8	6	58	38	99.2	193.4	BSP1/8	SG20F-VEM482V
VEM558	G20F-VEM558	54	48	2	9.5	72	38	107	201.2	BSP1/8	SG20F-VEM558
SST-M40E	G20F-SST-M40E	54	49	2	9.5	59	38	108.5	203.2	BSP1/8	SG20F-SST-M40E
FOUND-M40-3	G20F-FOUND-M40-3	54	50	1.8	9.5	59	38	107.2	201.5	BSP1/8	SG20F-FOUND-M40-3
FRD-M40E	G20F-FRD-M40E	56	51	2	7.5	68	38	111	205.3	BSP1/8	SG20F-FRD-M40E
VEP725A	G20F-VEP725A	56.3	80.8	4.8	16.2	97	65	82.3	171	M5	SG20F-VEP725A
CATL-PCM42E	G20F-CATL-PCM42E	60.4	51.2	4	6.5	72	38	96.7	190.9	BSP1/8	SG20F-CATL-PCM42E
FY-D70	G20F-FY-D70	70	67	1.8	8.1	83.8	38	101.7	180	BSP1/8	SG20F-FY-D70
ER22-FBFS	G20F-ER22-FBFS	116.1	116.1	4.7	29	120.1	120.1	101.2	245.7	BSP1/8	SG20F-ER22-FBFS
1899FBF	G20F-1899FBF	116.1	116.1	4.7	24	132.1	132.1	103.4	244.9	BSP1/8	SG20F-1899FBF



Suction Cup Version

Vent Valve Model	Model	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Dim. G	Dim. L	Fluid Port M	Seal No.
PBAL-M20E-15DF	G20F-P-M20E-15DF-NM	30.3	27.2	1.5	9.9	25.8	3.5	46	207	M5-6 Push-In	SG20F-P-M20E-15DF-NM
PBA2K-50F	G20F-PBA2K-50F-NM	49.6	47.4	1.5	4.2	44.7	1.9	64.5	201.8	BSP1/8	SG20F-PBA2K-50F-NM
VEM482VF	G20F-VEM482VF-NM	50.7	47.1	1.8	6	48	2.6	66.5	208.3	BSP1/8	SG20F-VEM482VF-NM
VEM603F	G20F-VEM603F-NM	51.6	47.8	1.6	4.4	48.6	2.9	68.5	194.5	BSP1/8	SG20F-VEM603F-NM
VEP774AF	G20F-VEP774AF-NM	52	48	2	4.9	49.8	3.1	68.5	207.5	BSP1/8	SG20F-VEP774AF-NM
FOUND-M40-3	G20F-FOUND-M40-3-NM	54	50	1.8	9.5	-	-	67.5	207	BSP1/8	SG20F-FOUND-M40-3-NM
VEM558F	G20F-VEM558F-NM	56	48.4	2	9.3	48	2.7	67.5	207	BSP1/8	SG20F-VEM558F-NM
VEM569F	G20F-VEM569F-NM	59.8	57.6	1.7	4.55	57.4	3	73.5	201.3	BSP1/8	SG20F-VEM569F-NM
VEM356F	G20F-VEM356F-NM	70	67	2.5	6.5	67.4	3	89	210.3	BSP1/8	SG20F-VEM356F-NM

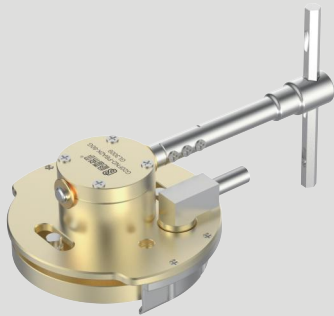
G20FN

Vent Valve Quick Connector

ONE-STOP CONNECTION

Low-Pressure Use | No Surface Damage | Handle Operation |

The G20FN series is a mini connector dedicated to vent valves in space-limited battery packs, widely used in various compact battery packs. It is easy to use: align with the vent valve bayonet and turn the handle to complete the connection.



Vent Valve Face Seal Connection Solution

- * Hook-on retention: safe and reliable
- * Handle / press operation: simple and effort-saving
- * Aluminum body: light and robust
- * Self-adjusting spring for a longer servicelife
- * Magnetic disc / suction cup valve opening for easy venting

G20FN Series Quick Connector Features

1. Rotating handle operation, simple to use

Align with the vent valve bayonet and turn the handle 90° to form a seal.

2. Face seal

Reliable sealing, easy seal replacement and simple maintenance.

3. Magnetic / suction cup design

Opens the vent valve for easy venting.

4. Aviation-grade aluminum

The connector housing is made of aviation aluminum: lightweight and durable, ensuring connector life while reducing operator effort.

5. Mini version

For testing after vehicle assembly and in narrow spaces; length greatly reduced

Selected Bodies



G20FN-PBA2K-42G



G20FN-PBA4K-50



G20FND-PMCM-12E

G20FN

Vent Valve Quick Connector

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G20FN Quick Connector Advantages and Features



Self-adjusting spring:
Seal pressure adjusts automatically to the bore diameter, extending service life



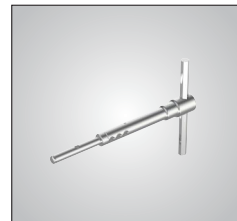
Magnetic / suction cup design:
Opens the vent valve for easy venting



Face seal:
Reliable sealing; the seal is easy to replace, simplifying maintenance

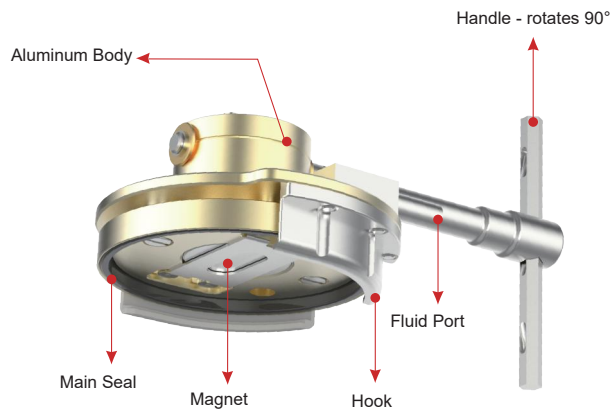


Aluminum Body:
Lightweight and durable, reducing operator fatigue



Handle operation:
simple and effort-saving

G20FN Quick Connector Specifications

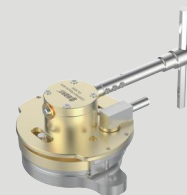


Max. Op. Pressure	Vacuum to 30 kPa,
Sealing Range	customised to the vent valve
Flow Port	BSPP1/8 Threaded Port
Material	Aluminum
Main Seal	Neoprene
Valve Opening Method	Magnet / Suction Cup / Silicone
Operating Temp	-20 °C to +120 °C

G20FN Operation Demo



1. Fit the front of the connector onto the vent valve to be sealed



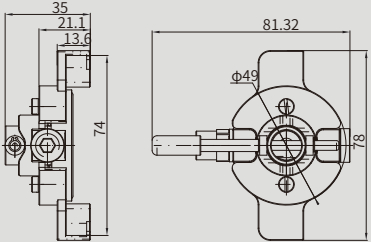
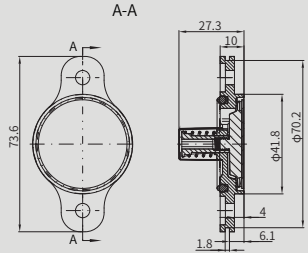
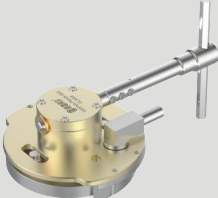
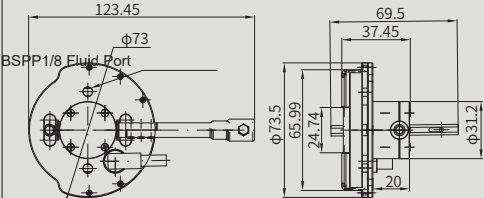
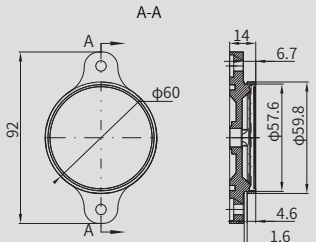
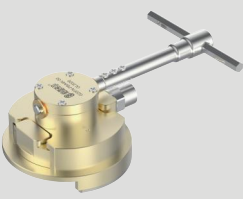
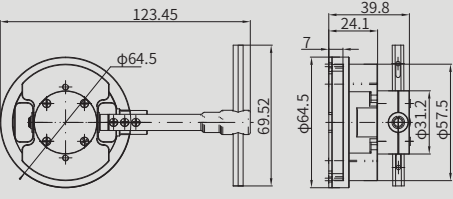
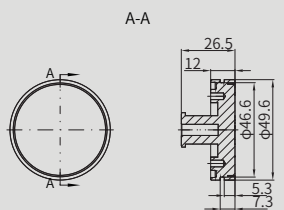
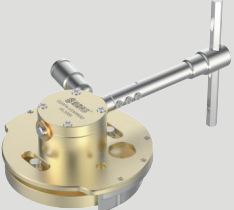
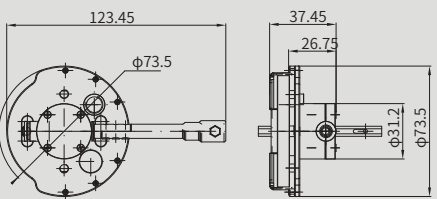
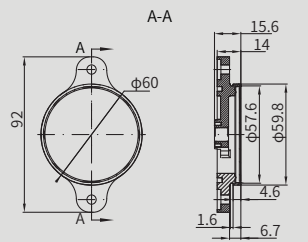
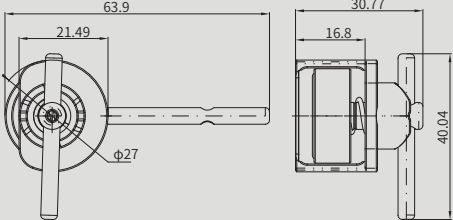
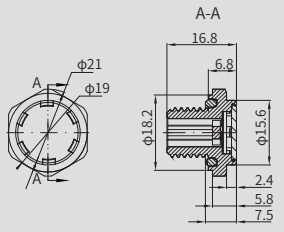
2. Rotate the handle to form the seal

G20FN

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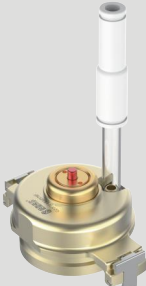
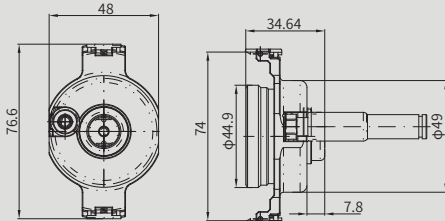
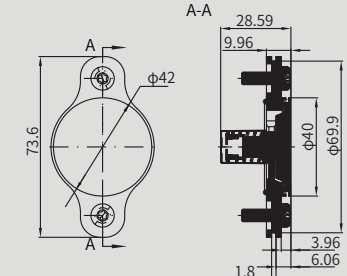
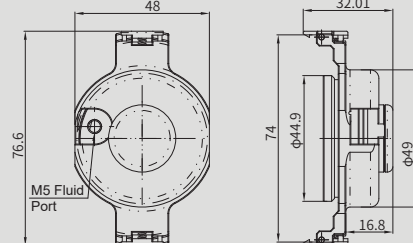
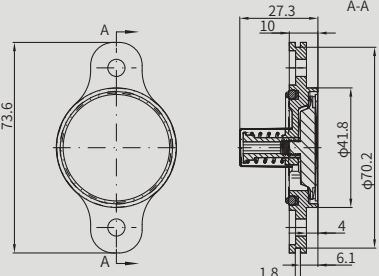
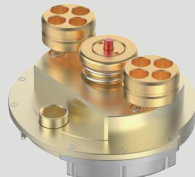
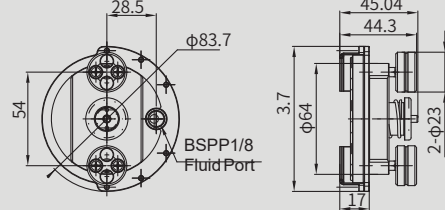
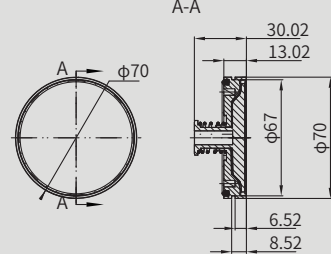
Model	Product Diagram	Vent Valve Diagram
 G20FN-PBA2K-42G		
 G20FND-PBA2K-60G		
 G20FN-PBA4K-50		
 G20FN-VEM569D		
 G20FND-PMCM-12E		

G20FN

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Model	Product Diagram	Vent Valve Diagram
 G20FN-VEM378F		
 G20FN-PBA2K-42VII		
 G20FN-PBA2K-70WG		
 G20FN-VEM582	