GORE® Packaging Vents For hazardous liquids, institutional cleaners & agrochemicals



PREVENT LEAKS AND DEFORMATIONS AND ENHANCE CONTAINER SAFETY

Concentrated or hazardous chemical formulations need packaging that breathes without leaking, to equalize pressure imbalances that would otherwise deform the container and cause dangerous spills or costly returns. GORE® Packaging Vents minimize these risks with a breathable barrier membrane that reliably maintains container integrity — and consistently passes DOT and ADR requirements.

Plug-In Vents

- D38/D17/D15: One of our most robust, reliable vents for the most aggressive industrial chemicals and "dangerous goods" packaging. Optimized for ADR Drop Test Specifications.
- D15 Converse: For cartridges or other packaging that require exterior vent integration. Ideal for dosing/dispensing applications.
- D10: A high-performance, small-footprint vent designed to enhance safety, sustainability and savings in applications like dispensers for household or institutional cleaners.
- D3: Equalizes pressure ONLY from the outside to the inside, for specialty applications including the smallest cartridges/dispensers that don't off-gas, but need pressure-balancing for product flow.

Benefits of Plug-In Vents:

- Meet the demanding needs of nearly all hazardous chemicals and cleaners within the field of agricultural, household and institutional applications.
- D38/D17/D15 consistently demonstrate compliance with DOT and ADR requirements in varied container systems.
- Easy to integrate via snap-fit or press-fit.

Liners

- Foam Liners: Full-surface membranes laminated to two different thicknesses for all flat-cap designs. Easy drop-in replacements for all single-point or unvented liners, in applications from consumer chemicals to DOT and ADR-regulated packaging.
- Pulp Induction Liners: For agrochemical bottles.
 Weldable installation ensures tamper-evidence;
 membrane construction provides needed
 breathability for gas-scavenging chemicals and off-gassing liquids.

Benefits of Liners:

- Developed for fertilizer, pesticides, household chemicals and cleaners.
- Easy to integrate without re-design of cap.
- All liners are available in single- and multi-up roll goods as well as in various widths.



Plug-In Vents





Typical Application	IBCs/Drums	Drums/Containers
Packaging Size	50 – 1500 liters	5 – 60 liters

Product Series	D	38	D	17
	Standard Series	High Airflow Series	Standard Series	High Airflow Series
Packaging Content/Application	Hazardous Chemicals and Agrochemicals	Hazardous Chemicals and Agrochemicals	Hazardous Chemicals, Agrochemicals	Biostimulants, Organic Fertilizers





Order Numbers ...

for Snap-Fit Integration CMF300278 CMF300279 CMF300206 CMF300281	for Press-Fit Integration	CMF300207	CMF300277	CMF300181	CMF300280
	for Snap-Fit Integration	CMF300278	CMF300279	CMF300206	CMF300281

Product Performance Characteristics

Typical Airflow at dp = 12 mbar ¹	45 l/h	137 l/h	5.6 l/h	15 I/h
Water Entry Pressure (WEP)	> 0.6 bar	> 0.3 bar	> 0.6 bar	> 0.3 bar
Drop Test Optimized Ye		Yes		25
Traceability	Yes: Individuall	y laser-marked	Yes: Individual	y laser-marked
Membrane Type	SC5	SG5	SC5	SG5
Laminate: membrane backing material	ePTFE PE/PP	ePTFE PE/PP	ePTFE PE/PP	ePTFE PE/PP
Vent Housing: material	HDPE		НС	PE
Vent Housing: color	Natural	White Natural		ural

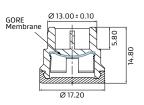
Vent Design and Dimensions

Units are in mm

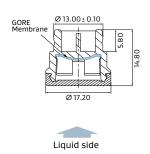
Dimensions without tolerances follow DIN 16742

Snap-Fit Integration: GORE Membrane Ø13.00±0.10 Ø37.50 Liquid side

Press-Fit Integration:



Snap-Fit Integration:



 $^{1\ \} Values\ are\ based\ on\ measurements\ without\ liquid\ contact.\ More\ detailed\ information\ can\ be\ found\ in\ our\ White\ Papers.$

Press-Fit Integration:

Plug-In Vents







Typical ApplicationContainers/BottlesCartridgesTrigger Sprayers/Dispensers/BottlesPackaging Size1–30 liters1–5 liters0.2–2 liters

Product Series	D1	15	D15 Co	nverse	D1	0
	High Repellency Series	Standard Series	High Repellency Series	Standard Series	High Repellency Series	High Airflow Series
Packaging Content/Application	Agrochemicals	Hazardous Chemicals	Institutional Domestic		Household Institutional Domestic	Cleaners and







Order Numbers ...

for Press-Fit Integration	CMF300161	CMF300180	CMF300275	CMF300276	CMF300223	CMF300274
for Snap-Fit Integration	_	_	-	_	-	_

Product Performance Characteristics

Typical Airflow at dp = 12 mbar ¹	1.6 l/h	4.2 l/h	0.9 l/h	4.2 l/h	0.38 l/h	2.3 l/h
Water Entry Pressure (WEP)	> 0.5 bar	> 0.6 bar	> 0.5 bar	> 0.6 bar	> 0.5 bar	> 0.3 bar
Drop Test Optimized	Ye	es	Y	es	N	lo
Traceability	Yes: Individually laser-marked		On lot level		On lot level	
Membrane Type	SE0	SC5	SF0	SC5	SF0	SH0
Laminate: membrane backing material	ePTFE -	ePTFE PE/PP	ePTFE –	ePTFE PE/PP	1	TFE -
Vent Housing: material	HDPE		НС	PE	Р	P
Vent Housing: color	Natural		Nat	ural	Wh	nite

Vent Design and Dimensions

Units are in mm	Press-Fit Integration:	Press-Fit Integration:	Press-Fit Integration:	
Dimensions without tolerances follow DIN 16742	Ø 13.00 ± 0.10 Ø 15.10 GORE Membrane	Ø 15.10 Ø 13.00 ± 0.10 GORE Membrane	Ø 8.53 ± 0.04 Ø 9.90 GORE Membrane	
	Liquid side	Liquid side	Liquid side	

 $^{1\ \} Values\ are\ based\ on\ measurements\ without\ liquid\ contact.\ More\ detailed\ information\ can\ be\ found\ in\ our\ White\ Papers.$

Plug-In Vents



Typical Application	Specialities
Packaging Size	0.2 – 1 liters
Product Series	D3
	Standard Series
Packaging Content/Application	Applications requiring



or vacuum-elimination

Order Numbers ...

for Press-Fit Integration	CMF300246
for Snap-Fit Integration	-

Product Performance Characteristics

Typical Airflow at dp = 12 mbar ¹	0.04 l/h
Water Entry Pressure (WEP)	> 0.6 bar
Drop Test Optimized	No
Traceability	On lot level
Membrane Type	SC1
Laminate: membrane backing material	ePTFE PET
Vent Housing: material	PP
Vent Housing: color	Gray

Vent Design and Dimensions

Units are in mm	Press-Fit Integration:
Dimensions without tolerances follow DIN 16742	Ø 2.50 ± 0.03 Ø 3.10 GORE Membrane
	Liquid side

Quality Assurance for Plug-In Vents

In-Line Airflow Test (Not applicable to D10 and D3)

100% of the vents are airflowinspected during production. This ensures that every part meets the specified airflow requirements.

Water Entry Pressure Test

WEP testing allows more control of the membrane integration process and also verifies the membrane's water entry pressure resistance.

In-Line Camera Test

100% optical testing ensures that the membrane is integrated properly and is free of defects.

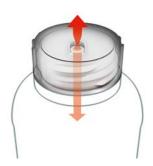
Tracking

Each D38, D17 and D15 vent is laser-marked with an individual tracking code. This enables Gore to reference the actual production data at any time.

Drop Test

(Not applicable to D10 and D3)

Compliant with European ADR standard 6.1



Liners





Typical Application Bottles Bottles

Packaging Content Hazardous Chemicals and Agrochemicals Agrochemicals





Product Family Foam Liner Pulp Induction Liner

Product Series	Standar	rd Series	High Perforr	High Performance Series		High Repellency Series	
Series Numbers	323G	324G	383G	384G	СМ6В	CM6C	CM8C

Product Performance Characteristics

Product Performance Character	ISTICS						
Typical Airflow at dp = 12 mbar ^a	0.7 l/h/cm²		1.8 l/h/cm²		0.17 l/h ^b 0.18 l/h ^c	0.29 l/h ^b 0.42 l/h ^c	1.93 l/h ^b 5.93 l/h ^c
Water Entry Pressure (WEP)	> 1.4 bar		> 1.4 bar		> 0.5 bar		> 0.3 bar
Traceability	On lot level				On lot level		
Membrane Liner Construction	ePTFE + PE foam				ePTFE + PE + aluminum + PET + wax + pulp		
Thickness	1.1 mm	1.9 mm	1.1 mm	1.9 mm		1.0 mm	
Venting Hole Diameter		N/A – full surf	ace venting	0.6 mm	2.0 mm	2.0 mm	
Venting Method	(ve	cap thread venting venting through hole in cap also possible)			cap thread venting (venting through hole in cap also possible)		
						R	

- a This value is based on an optimum closure bottle design in combination with a typical closure torque.
- b This value is based on a roll good slit width of 52.3 mm intended for disc diameters up to 46.3 mm.
- c This value is based on a roll good slit width of 69.9 mm intended for disc diameters up to 63.9 mm.

All liners are available in various widths.

Does your application require advanced performance? Contact us at packvent@wlgore.com

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