

## ChargeBottle® P2

### Lightweight powder transfer containers

Suitable for pharma, chemical and food use:

- FDA compliant materials
- Good chemical compatibility
- Pressure rated for robust and varied application

Maximise product flow and yield:

- Joint free construction
- Optimum cone shape
- FDA compliant anti-static additive
- Optional wet/dry flush port

Suitable for aseptic processing:

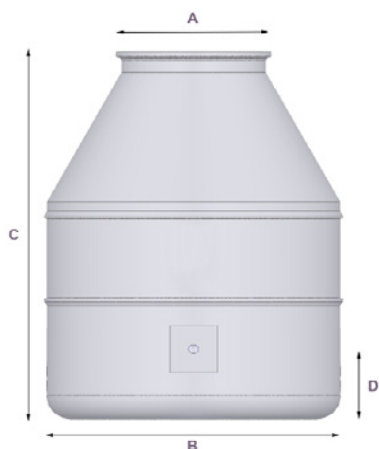
- Gamma stable

Applications:

- Bulk powders
- Granulates
- API
- Intermediates
- Buffer media
- Components (e.g. vial closures)



### Dimensions



	10L		20L	
<b>Connection (A) mm</b>	DN100 (4")	DN150 (6")	DN100 (4")	DN150 (6")
<b>Outside diameter (B) mm</b>	320	320	320	320
<b>Total height (C) mm</b>	341	295	440	394
<b>Port position height (D) mm</b>	75	73	75	75

## Range & Specifications

	10L		20L	
<b>Connection Size</b>	DN100 (4")	DN150 (6")	DN100 (4")	DN150 (6")
<b>Volume (L) (nominal)</b>	10L (15.6L effective)	10L (15.1L effective)	20L (22.8 effective)	20L (22.3 effective)
<b>Weight (approximate)</b>	1.5kg	1.5kg	2kg	1.9kg
<b>Connection Type</b>	Tri-Clamp			
	100mm BS4825 standard (compatible with ASME BPE, ISO 2852, DIN 32676 Series A&C and IDF)			
	150mm BS4825 non-standard equivalent (compatible with ASME BPE, DIN 32676 Series C)			
<b>Materials</b>	Marlex HHM 5502BN High Density Polyethylene (HDPE)			
	Excellent stiffness and durability			
	Good chemical compatibility			
	Gamma stable			
<b>Compliance</b>	FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)			
	USP Class VI			
<b>Pressure Rating</b>	500mBarG (7.2 psi)			
<b>Purge/Vent Port</b>	1" BS4825 tri-clamp port - available as an additional option			
<b>Handle Clamp</b>	Stainless steel clamp with over centre latch and two (2) hand grips - available as an additional option (sold separately)			

## Accessories

<b>Modular handle clamp</b>	Ergonomic handle grips to assist safer manual handling
<b>Vibratory collar</b>	Modular attachment pneumatically operated to assist powder flow
<b>Bottle hoist</b>	Fixed mobile or pneumatic hoists for automatic raise and lower docking
<b>Bottle wash station</b>	Manual or automatic washing of containers without breaking a containment seal
<b>Tri-Clamps</b>	Stainless steel or plastic (Nylon)
<b>Tri-Clamp gaskets</b>	EPDM, PTFE



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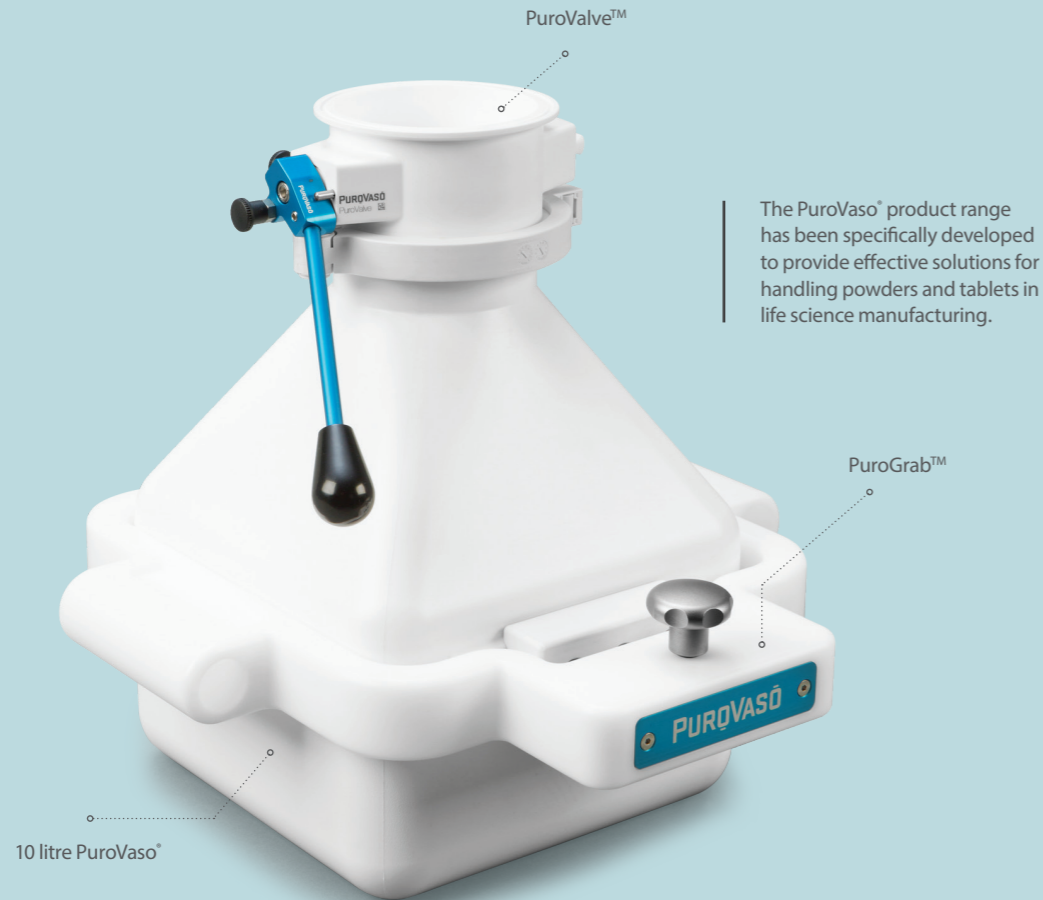
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THE QUEEN'S AWARDS  
FOR ENTERPRISE:  
INTERNATIONAL TRADE  
2012



**PUROVASO**  
Altogether Better



The PuroVaso® product range has been specifically developed to provide effective solutions for handling powders and tablets in life science manufacturing.



Innovative



Lightweight



Different sizes



Ergonomic



Recyclable

PuroVaso® embodies years of materials handling application experience into an 'Altogether Better' solution.

PuroVaso® containers are moulded from FDA compliant Polyethylene (PE) plastic materials, and offer the benefits of disposable single use technology whilst also being suitable for multi-use applications.

The manual handling of pharmaceutical products can often be difficult due to the weight of the container. At PuroVaso® we have changed the product to container weight ratio to ensure operators handling limits are driven by product weight and not by the weight of the container. The result is a unique combination of value and performance.

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# Greater Versatility

The PuroVaso® container range offers far greater versatility, delivering the optimum handling solution.

From 1 litre to 50 litre with five further sizes in-between, and with a choice of 100mm or 150mm necks, PuroVaso® offers the widest range of plastic container sizes available. No need to compromise on the container size, just select the container volume that matches your batch size.

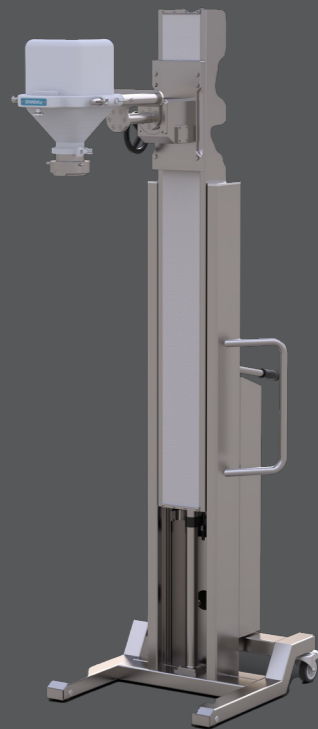
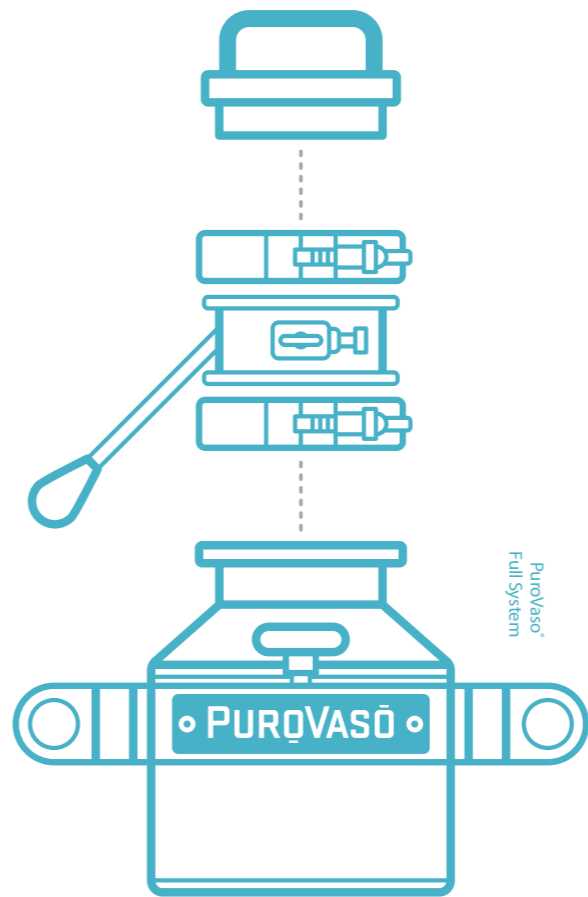
Altogether Better



# Smarter Handling

An intelligent range of accessories provide ergonomic handling solutions, for effortless handling.

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# Material Choice

PuroVaso® containers are available in three different choices of Polyethylene (PE) plastic materials.

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Pure White  
Provides a UV protection

Translucent White  
Allows visualisation of fill level

Conductive Black  
LDPE plastic for ATEX and static sensitive applications.



An anti-static 'Translucent White' allows the visualisation of the fill level within the plastic container. The anti-static 'Pure White' provides a UV protection for light sensitive materials that may be stored and transported within the pharma

process bottle. All PuroVaso® containers are suitable for ATEX dust applications, whilst the 'Conductive Black' is also suitable for ATEX gas applications.

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# + Safety Compliance

Naturally, the PuroVaso® containers are manufactured from materials that comply with FDA and relevant European regulations. The containers can be sterilised using Gamma Irradiation and VHP methods.

To further widen the application area, the materials selected have been extensively tested by a third party specialist for conductivity resulting in the PuroVaso® containers being available in an FDA conforming Conductive Black for the most arduous ATEX environments.

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# Valve Options

## PuroValve™

Manufactured from FDA conforming engineering plastic material for a lightweight valve solution.

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PuroValve™



PuroVaso® containers are designed to fit any valve type with a tri-clamp connection. A choice of DN100 or DN150 tri-clamp necks allows the use with a wide range of international standard tri-clamp connections.

The PuroValve™ perfectly compliments the lightweight ergonomic handling solutions from PuroVaso®. The valve's components are precision machined from FDA conforming high performance engineering plastics. Weighing only 500g, the PuroValve™ has quick-release features allowing the complete valve to be disassembled without tools within minutes for cleaning.

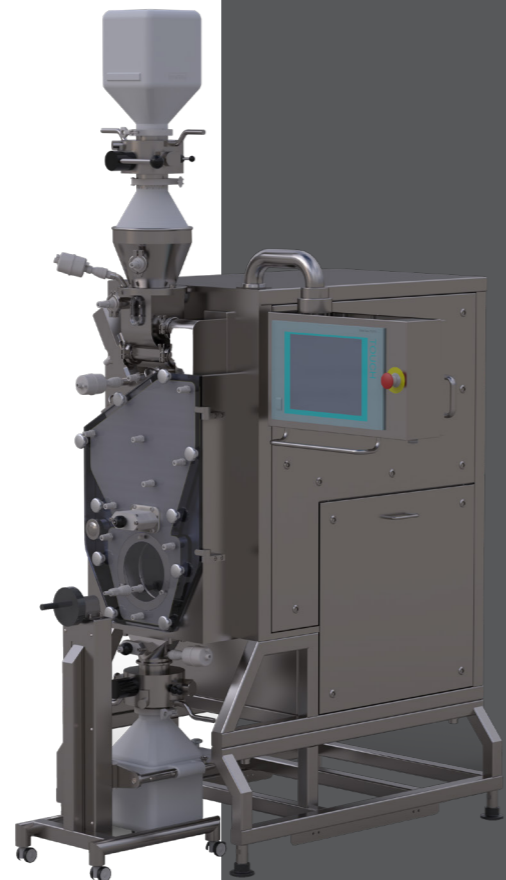


# Intelligent Design

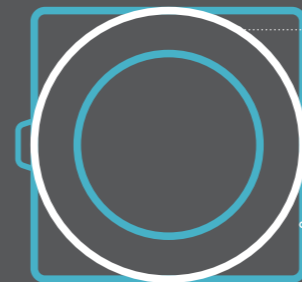
## PuroValve™

A container shape designed to allow better use of space.

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## PuroVasö® improved container structure



Standard Container  
Circular container holds less volume and increases storage costs.

PuroVasö® Container  
Square container holds higher volumes, maximising the use of space.

A square bottle geometry maximises facility space and reduces equipment stack-up heights. The smarter use of the PuroVasö® container geometry reduces storing and transporting costs. The square geometry means the container is suitable for tumble blending, and the discharge cone angles allows effective powder discharge.



# + Low Cost Recyclable

PuroVaso® containers allow for lower capital expenditure and lower operation costs. Moulded from Polyethylene (PE), the containers offer a much lower initial investment cost compared with stainless containers. Unlike single use flexibles, the PuroVaso® containers can be washed to allow it to be re-used many times over.

At the end of the PuroVaso® containers useful life, the containers can be recycled. The Polyethylene (PE) materials can be ground down, melted and re-pelletised to allow them to be used in the manufacture of non-food contact products.

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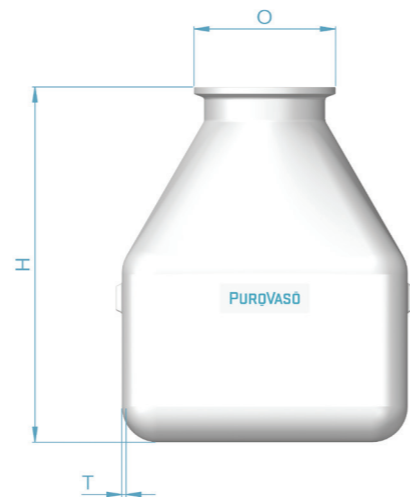
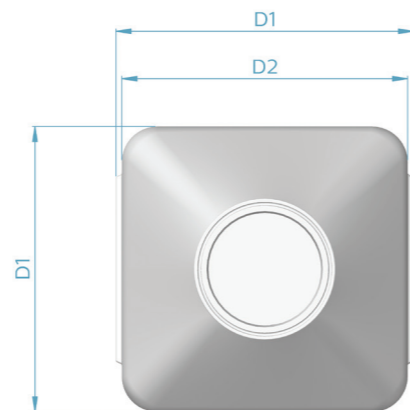


# Technical Details

## Product Code Configurator

	Container Volume	Neck Size	Container Material
	1		
	2		
	5		
	10		PW
	15	4	OW
PV	30	6	CB
	50		

e.g. PV15 4 CB is a 15L PuroVaso® with a DN100 neck manufactured in Conductive Black material.



## PuroVaso® Technical details at a glance

Volume	Neck (O)	Height (H)	Footprint (D2)	Overall width (D1)	Weight (W)	PuroGrab™ Size
1 litre	DN100	122 mm	140 mm	150 mm	0.6 kg	PuroGrab™ 140
2.5 litres	DN100	192 mm	140 mm	150 mm	0.7 kg	PuroGrab™ 140
5 litres	DN100	229 mm	240 mm	250 mm	1.5 kg	PuroGrab™ 240
10 litres	DN100	299 mm	240 mm	250 mm	1.6 kg	PuroGrab™ 240
15 litres	DN100	389 mm	240 mm	250 mm	2.5 kg	PuroGrab™ 240
5 litres	DN150	229 mm	240 mm	250 mm	1.5 kg	PuroGrab™ 240
10 litres	DN150	299 mm	240 mm	250 mm	1.6 kg	PuroGrab™ 240
15 litres	DN150	389 mm	240 mm	250 mm	2.5 kg	PuroGrab™ 240
30 litres	DN150	378 mm	350 mm	360 mm	3.5 kg	PuroGrab™ 350
50 litres	DN150	548 mm	350 mm	360 mm	5.5 kg	PuroGrab™ 350

Please note, the accuracy is +/- 2mm

### Tri-clamp connection

DN100 necks are compatible with BS4825 Pt.3, DIN 32676 series A & C, ASME BPE 2012, ISO 2037 and SMS 3008/3017.

DN150 necks are compatible with BS4825 Pt.3, DIN 32676 series C and ASME BPE 2012.

### Materials of Construction

PuroVaso® containers are moulded from polyethylene (PE) to provide a crevice free construction and are available in the following material choices:

- OW Anti-static 'Translucent White' (previously 'Opaque White') allowing visualisation of fill levels
- PW Anti-static 'Pure White' providing UV protection for materials in storage
- CB 'Conductive Black' for blending applications, gas ATEX applications and when handling more static sensitive materials.

### Over Pressure Rating

- 1L - 10L up to 1 bar (14.5psi)
- 30L - 50L non-Pressure rated

### Compliance

- FDA CFR 177.1520 (c) 178.3297, 178.2010
- EC-directive 10/2011
- BSE/TSE Free, Melamine and Phthalate Free, Nitrosamine Free, USP<B8> (Translucent White (OW) only)

### Sterilisation

All material choices allow for Gamma Irradiation and VHP sterilisation methods

### Temperature Rating

- Normal operating temperature up to 40°C
- Cleaning temperature up to 70°C

### ATEX Rating\*

- All PuroVaso® containers are suitable for Zone 20, 21 and 22 rated areas
- Conductive Black containers are suitable for Zone 0/20, 1/21 and 2/22 areas
- \* refer to manual for specific conditions

**PUROVASO**  
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v9 April 2023