

The background features a complex, abstract design of thin, grey lines that form a series of overlapping, curved paths. Two prominent wireframe spheres are positioned in the lower half of the frame, one larger than the other, both composed of a dense grid of intersecting lines. The overall aesthetic is technical and futuristic.

# BlackVel Solutions Pte Ltd

## FLEXITANK

# INTRODUCTION



## ADVANTAGES

Flexitank has proven to be a more economical bulk packaging for the past decades. Let's have a look at the a brief illustration on the advantages of Flexitank compared to other traditional packaging.

## FLEXITANK

Cost: Low  
Loading / Discharge: Easy  
Storage Cost: Low  
Hygiene: Excellence  
Disposal: Environmental Friendly



## THE COMPANY

BlackVel Solutions Pte Ltd is no stranger to bulk packaging. With decades of experience in packaging, our experienced Management Team strive to bring the most innovative and economical bulk packaging for your industrial needs.

## THE PRODUCT

Since 1970s, Flexitank (which is a special bladder that is designed to fit inside a 20FT freight container) has been used as a carriage for non-hazardous liquid. This unique packaging offers considerable savings in transportation costs and eliminates the possibility of products contamination. Ever since then, more and more companies are changing their bulk shipment from traditional packing to Flexitank.



## 200L Drum

Cost: High  
Loading / Discharge: Difficult  
Storage Cost: Very High  
Hygiene: Risk of Contamination  
Disposal: Harmful to Environment

## 1,000L IBC

Cost: Very High  
Loading / Discharge: Very Difficult  
Storage Cost: High  
Hygiene: Risk of Contamination  
Disposal: Harmful to Environment

## ISO Tanker

Cost: Extremely Expensive  
Loading / Discharge: Moderate  
Storage Cost: Very very High  
Hygiene: Risk of Contamination  
Disposal: Harmful to Environment

# FLEXITANK SPECIFICATIONS



**Standard Flexitank.** BlackVel carries one standard Flexitank in our warehouse as we believe that is the best combination of specifications. However, we understand that different companies have different requirements, we also provide customise design on the Flexitank to cater for different needs.

## PACKED DIMENSION (ONE FLEXITANK)

Packed Size	113cm x 56cm x 45cm (H)
Weight / Carton	Approx 60kg (Flexitank Set Only)
Weight per set (including Metal Bars)	Approx 100kg

## QUALITY ASSURANCE

Quality Management System	ISO 9001:2000 Supervision
Insurance	Product Liability Insurance
Product Material	FDA, EC Standard
Kosher Certified	Yes

## SPECIFICATIONS

Item:	BV Flexitank (Highly Recommended)
Type:	Standard
Capacity:	24000L
Specifications:	2 Inner LLDPE (Food Grade) & 1 Layer Outer PP Woven
LLDPE Thickness	350 micron per layer
Bulkhead:	PP Woven
Valve Type:	3" Top Load & Discharge / 2" Bottom Load & Discharge
No. Of Valve:	1
Air Vent:	Yes
Galvanised Steel Bar:	Yes
Accessories:	Yes (E.g. Caution Sticker, Cable Tie etc)
Corrugated Paper:	Yes

# TECHNICAL SPECIFICATIONS

## PP WOVEN :

Description	Woven Polypropylene
Yarn Count: TD (DIN 53864) MD (DIN 53864)	1500 Denier 2000 Denier
Tensile Strength: TD (DIN 53857) MD (DIN 53857)	190 DAN/5cm 200 DAN/5cm
Elongation at Break: TD (DIN 53857) ND (DIN 53857)	18% 14%

**Polypropylene (PP) Woven** is typically used in 1 ton Bulkbag or FIBC, As it can withstand high temperature and its abrasive to friction, it is chosen to be the best material for the Flexitank's protective layer.



## INNER FILM:

Description:	2 ply Co-extrusion blown polyethylene Film
Nominal Thickness	350 micron each ply
Tensile Strength: MD (ASTM D6381V at 50mm) TD (ASTM D6381V at 50mm)	>= 36Mpa >= 36Mpa
Tear Resistance: MD (ASTM D1004) TD (ASTM D1004)	>=90N >=90N
Puncture Resistance: (ASTM D4833)	>=99N
Elongation MD (ASTM D6381 at 50mm) TD (ASTM D6381 at 50mm)	>=675% >=675%



**Polyethylene (PE)** is used predominantly in Film Application due to its toughness, Flexibility and relative transparency.

We are able to customise Flexitank with different valve.

Additional valve is possible upon request.

## VALVE :

	3" Valve	2" Valve
Valve Type	Butterfly , Camlock	Ball, Camlock
Material	PP (Food Grade)	PP (Food Grade)
Color	Gray	Black
External Diameter	85mm	62mm
Internal Diameter	62mm	40mm
Material of Handle	Metal + Rubber	PP
Advantage	Faster Flow	Slower Flow (Compared to 3" Valve)
Applications	Variety (Able to connect to a reducer to change 3" to 2")	Limited



# HEATER PAD



## USE DURING:

- Winter
- Transporting products that has high melting point

Heater Pad or Reheating Device is used to reheat solidified products in the flexitank upon arrival at destination. This Reusable Device is designed to allow maximum exposure of heat when placed underneath the solidified Flexitank. In extreme case when on heater pad is not enough to liquefy the harden product, another Heater Pad is placed on top as a “blanket” for intense heating.

Description:	Heater Pad
Material:	Caoutchouc + Steel
Inside Diameter:	8 mm
Outside Diameter:	16 mm
Outlet Hose:	Reinforced Rubber 25 mm
Inlet Hose:	25 mm
Working Pressure:	< 0.5 Mpa
Temperature Range:	< 150°C
Heat Source:	Steam

## Packed Dimension

Heater Pad is packed in compact size to maximise ease of handling.

Layout Dimensions:	5.58 m (Width) X 2.1 m (Length)
Packed Dimensions:	2.25 m (Length) X 0.54 m (Width) X 0.19 m (Height)
Approximate Weight:	55kg



# EMERGENCY REWORK



**OUR EXPERIENCE.** BlackVel has been actively assisting our overseas counterparts in numerous emergency rework. We are well versed in handling different scenario and has successfully executed severe cases at ease.

Our Emergency Rework includes :

- Cross Pumping from leaking Flexitank to new Flexitank
- Cross Pumping from leaking Flexitank to other packaging such as IBC Tank
- Surveying the extend of leakages from the leaking flexitank
- Cross Pumping on the Vessel in the sea

Apart from being an active team in Singapore PSA, we are also well situated in different parts of the world to provide

**We have assisted our overseas counterparts in numerous emergency rework cases.**

a complete service and support for our valuable customers. As BlackVel carries other packaging, we are flexible in repacking the salvaged products into other packaging as required by our customers. This flexibility enables us to win the trust of our local and overseas clients.

## Overseas Emergency Rework

As below are a list of countries that BlackVel is to conduct Emergency Rework

1. Asia
  - Singapore
  - Malaysia
  - Thailand
  - Philippines
  - Sri Lanka
  - China
  - Korea
2. Europe
  - Russia
  - England
  - Turkey
3. South America
  - Brazil
  - Argentina



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# OUR SUPPORT

BlackVel provides the relevant services for our customers:

## 1. Suggestions for product acceptance

BlackVel will request customers to send a copy of the product MSDS before proceeding to procure the Flexitank. This is to ensure that all products loaded are compatible to the Flexitank and eliminate any foreseen accident.

## 2. Guide for container selection

A list of container selection guide will be given to customers to ensure that the correct containers are arranged

## 3. Guide for Fitting

BlackVel will engage her own Team to carry out the Fitting Service as this will ensure that correct procedure has been carried out.

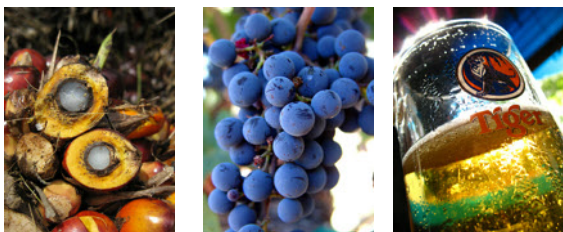
## 4. Technical Support for Loading and Discharging

Our Technical support personnel are capable in all aspects of technical know-how of flexitank operations.

## 5. Disposal

We are able to carry disposal service in different countries but it will be subjected to the respective countries rules and regulations. An additional disposal charge could incurred in certain countries.

# APPLICATIONS



Our Flexitanks are suitable for the carriage of most types of non-hazardous

### FOOD PRODUCTS

Animal Oils	Coconut Oil	Corn Oil	Dark Soy Sauce	Flat Beer	Fish Oil/Sauce
Fruit Juice	Malt	Glucose	Jam	Olive Oil	Palm Oil
Peanut Oil	Soya Bean Oil	Syrup	Vegetable Oil	Water	Wine

### CHEMICAL PRODUCTS (Non-Hazardous)

Adhesive	Base Oil	Biodiesel (Methyl Ester)	Castor Oil	Detergents	Emulsions
Glycerine (Crude/Refined)	Fatty Acids	Transformer Oil	Lube Oil	Mineral Oil	Natural Latex
Surfactants	Synthetic Latex	Tall Oil Fatty Acid	Furnace Oil	Polyol	White Oil

If your product is not listed here, please email to us a copy of your product MSDS (Material Safety Data Sheet). We will run a check on whether your product is compatible with the Flexitank.

**BlackVel Solutions PL**

195, Pearl's Hill Terrace  
#03-31  
Singapore 168976

(65) 65368220  
Info@blackvel.com  
www.blackvel.com

