

CHAPTER 6 : TANK AND PLUMBING

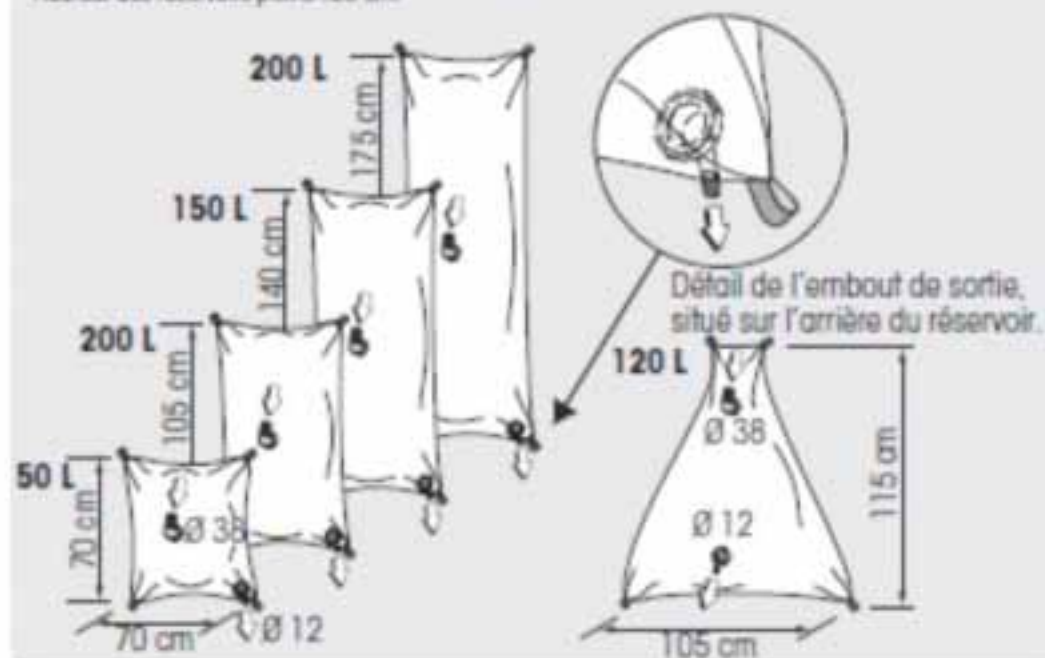
- WATER TANK
- HOLDING TANK
- CUSTOM TANK
- PIPE
- DECK FITTING
- VENTS
- PLUMBING
- HOLDING TANK FILTER
- IN/OUT FIT
- SEALING SYSTEM

WATER TANK :

Flexible water tank for fresh water

Shape of tank	Capacity	Reference
Carré	50 Litres	AR21187
	100 Litres	AR21188
Rectangulaire	150 Litres	AR21189
	200 Litres	AR21190
Triangulaire	120 Litres	AR21191

L'embout de remplissage Ø 38 mm est situé sur la face supérieure ;
l'embout de sortie Ø 12 mm est situé sur la face arrière
(sauf sur modèle triangulaire : remplissage et sortie sont sur la face supérieure).
Hauteur des réservoirs pleins : 25 cm.



Ercole water tank

Polyéthylène. Streight deck fill Ø38 mm. Pipe Ø16 mm.



<i>Model</i>	<i>Capacity L</i>	<i>Length mm</i>	<i>Width mm</i>	<i>Height mm</i>	<i>Reference</i>
Ercole 45	45 Litres	500	300	350	AR21192
Ercole 56	56 Litres	650	300	350	AR21193
Ercole 70	70 Litres	800	300	350	AR21194

HOLDING TANK :



WASTE WATER KIT

Includes tank + macerator + accessories

Polythene waste tank according to ISO 8099 regulation

Complete with 8 joints on both sides: 4 of $\frac{3}{4}$ e 4 $\frac{1}{2}$ " for charge, discharge and breather

KIT includes: macerator, Y valve, gas tank vent, activated carbon filter and control panel

The filter should be installed along the breather of the tank in the highest possible location

The activated carbons should never come into contact with the liquids in the tank

RECTANGULAR TANK

<i>Capacity L</i>	<i>Length mm</i>	<i>Width mm</i>	<i>Height mm</i>	<i>Reference</i>
47 L	480	400	250	AR19851
78L	700	400	300	AR19852
130L	880	500	300	AR19853

BREVELLED TANK

<i>Capacity L</i>	<i>Length mm</i>	<i>Width mm</i>	<i>Height mm</i>	<i>Reference</i>
50 L	550	430	290	AR19854
75 L	790	430	290	AR19855
100 L	880	500	300	AR19856



WASTE MANAGEMENT SYSTEM

Heavy duty macerator evacuation pump(50890 series)

Ready to install with inlet, outlet and vent hose
connection to 1 1/2"

Hard mounting strap

Level indicator(optional)

Maximum elevation head 4 m

Capacity 19l/min

Self priming pump

Pumping soil and waste water

<i>Model</i>	<i>Tank capacity</i>	<i>Supply V</i>	<i>Fuse A</i>	<i>Length mm</i>	<i>Width mm</i>	<i>Height mm</i>	<i>Delivery L/min</i>	<i>Reference</i>
324004012	41 L	12 V	10 A	650	390	200	19L/min	AR19895
324006012	63 L	12 V	10 A	950	390	200	19L/min	AR19896
324006024	63 L	24 V	5 A	950	390	200	19L/min	AR19897
324010012	103 L	12 V	10 A	1050	390	200	19L/min	AR19898
324010024	103 L	24 V	5 A	1050	390	200	19L/min	AR19899

CUSTOM TANK :



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We manufacturing custom tank in steel, Stainless steel, aluminium, polyethylene and polypropylene. In our work-shop at Mouans-Sartoux

PIPE :

Pipe anti-odor



HARDWALL SMOOTH COVER RUBBER HOSE

Extremely flexible designed as sewage pipe for marine toilets.
Its main advantage is to avoid the spreading of odours from the toilet drains

Tube: white, smooth, odour-free and anti-bacterial quality rubber

Permeability level lower than 1%

Suitable also for connect biologic tank, biologic pump and bilge pump

Standard: according to European, FDA and ISO 8099:2000

<i>Inside diameter</i>	<i>Outside diameter</i>	<i>Working pressure</i>	<i>Max Pressure</i>	<i>Temperature range</i>	<i>Length</i>	<i>Reference</i>
Ø 16 mm	Ø 26 mm	7 bars	21 bars	-40°C/+120°C	30,5 m	AR19975
Ø 19 mm	Ø 29 mm	7 bars	21 bars	-40°C/+120°C	30,5 m	
Ø 25 mm	Ø 35 mm	7 bars	21 bars	-40°C/+120°C	30,5 m	AR19977
Ø 38 mm	Ø 48 mm	7 bars	21 bars	-40°C/+120°C	30,5 m	AR21140



STEEL WIRE PVC HOSE NON TOXIC ALIPOMP/SAN

Extremely flexible designed sewage pipe for marine toilets

Tube: smooth white special PVC compound. Impermeability good level compound

Reinforcement: steel wire helix

Cover: weathering and most chemicals resistant white PVC

Surface: smooth extruded

<i>Inside diameter</i>	<i>Pressure</i>	<i>Temperature range</i>	<i>Length</i>	<i>Reference</i>
Ø 16 mm	6 Bar	-15°C +60°C	30 m	AR19999
Ø 19 mm	5 Bar	-15°C +60°C	30 m	AR20000
Ø 25 mm	5 Bar	-15°C +60°C	30 m	AR20001

- Tuyaux tous liquides



Collier de serrage

Réf : **AR08310** Ø 30-45mm



Tuyau haute résistance.

Très flexible et robuste, renforcé avec une spirale PVC. Transparent pour le contrôle constant du passage des liquides. Température utilisation de -5°C à +60°C. Pression de service à 20°C.

<i>Diamètre intérieur</i>	<i>Diamètre extérieur</i>	<i>Pression d'utilisation</i>	<i>Rayon de courbure</i>	<i>Référence</i>
Ø 20 mm	Ø 24.8 mm	6.5 bars	110 mm	AR14824
Ø 25 mm	Ø 29.8 mm	6.5 bars	140 mm	AR14825
Ø 30 mm	Ø 35 mm	6 bars	175 mm	AR14826
Ø 35 mm	Ø 40.4 mm	6 bars	195 mm	AR14827



Pipe pvc for hot water

Réf: **AR14976** Ø INT 19mm, Ø ext 28mm, Ø courbure 115m



Pipe FOR HOT WATER

Réf: **AR14703** ØINT 12mm

Ø ext 19 mm, Ø courbure 130 mm

Longueur : 20m



Flexible hoses for all utilisation

Réf: **AR14888** Ø int 19mm, Ø ext 26mm pression service 15b

Réf: **AR14889** Ø int 25mm, Ø ext 33mm pression service 13b

Réf: **AR14890** Ø int 38mm, Ø ext 48mm,pression service 8b

Longueur : 25m



High strength pipe

Very flexible and robust, food-grade PVC reinforced with a steel spiral. Transparent to the constant control of the passage of liquids or white for the sewage, it supports liquids from -5 ° C to +65 ° C. Pressure at 20 ° C.

<i>Diamètre intérieur</i>	<i>Diamètre extérieur</i>	<i>Pression d'utilisation</i>	<i>Rayon de courbure</i>	<i>Longueur</i>	<i>Couleur</i>	<i>Référence</i>
Ø 16 mm	Ø 22.4 mm	6 bars	35 mm	30 m	Transparent	AR14659
Ø 20 mm	Ø 26.8 mm	5 bars	50 mm	30 m	Transparent	AR14661
Ø 25 mm	Ø 33 mm	5 bars	60 mm	10 m	Transparent	AR14663
Ø 30 mm	Ø 38.4 mm	4.5 bars	70 mm	10 m	Transparent	AR14664
Ø 38 mm	Ø 47 mm	4 bars	90 mm	10 m	Blanc	AR14667

DECK FITTING AND VENTS :

- Nables aluminiums et plastiques



<i>Model</i>	<i>Application</i>	<i>Diameter</i>	<i>Reference</i>
St. Steel deck fitting	Water tank	Ø 38 mm	AR12825
St. Steel deck fitting	Fuel tank	Ø 50 mm	AR12826
St. Steel deck fitting	Fuel tank	Ø 38 mm	AR12827
St. Steel deck fitting	Holing tank	Ø 38 mm	AR12828
Blue plug + chain	Water tank		AR12837
Black plug + chain	Holing tank		AR12838
Red plug + chain	Fuel tank		AR12839

○ **Nables Bronze et laiton**



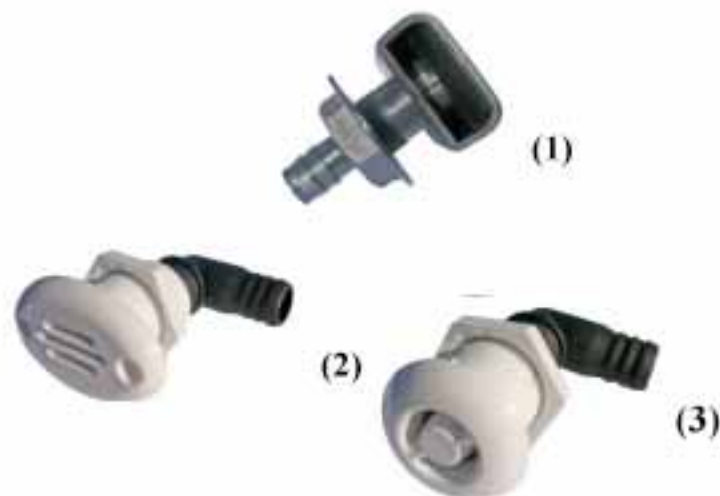
<i>Model</i>	<i>Application</i>	<i>Diameter</i>	<i>Reference</i>
Bronze deck fitting	<u>Water tank</u>	Ø 38 mm	AR12833
Bronze deck fitting	Fuel tank	Ø 50 mm	AR12834



<i>Model</i>	<i>Application</i>	<i>Diameter</i>	<i>Reference</i>
Brass deck fitting	<u>Water tank</u>	Ø 50 mm	AR12835
Brass deck fitting	Fuel tank	Ø 50 mm	AR12836

○ **Vents**

<i>Model</i>	<i>Max thickness</i>	<i>Diameter</i>	<i>Reference</i>
Event réservoir (1)	16 mm	Ø 16 mm	AR11004
Event ovale (2)	24 mm	Ø 16 mm	AR11127
Event Ø 42 mm (3)	24 mm	Ø 16 mm	AR11126



- **Plumbing**



Passe coque pour vannes ¼ tour homologué pour montage sous la ligne de flottaison. Fabrication en polymère chargé en fibre de verre. Anti corrosion et anti-électrolyse.

<i>Désignation</i>	<i>Diamètre</i>	<i>Référence</i>
Passe coque	Ø 3/4" BSP	AR15191
Passe coque	Ø 1" BSP	AR15192
Passe coque	Ø 1"1/4 BSP	AR15193
Passe coque	Ø 1"1/2 BSP	AR15194
Passe coque	Ø 2"	AR15195



Vannes ¼ tour homologuées pour montage sous la ligne de flottaison. Approbation IMCI CONFORME 0 LA NORME iso9093-2. Montage sur tout type de coque. Fabrication en polymère chargé en fibre de verre. Anti corrosion et anti-électrolyse. Bille et joints en Téflon. Coloris noir avec poignée bleue. Autorise le passage de « jus » de fonds de cale ou de carburant.

<i>Désignation</i>	<i>Diamètre</i>	<i>Référence</i>
Vanne	Ø 3/4" BSP	AR15187
Vanne	Ø 1" BSP	AR15188
Vanne	Ø 1"1/4 BSP	AR15189
Vanne	Ø 1"1/2 BSP	AR15190

○ **Y Valve**



Y valve (Ø 38mm) to direct the "black water or clean" or to a storage tank or direct.

Référence : AR10692



Y-valve (1 input - 2 output Ø 38mm) to direct the "black water or clean" or to a storage tank or direct vent.

Can be padlocked.

Référence : AR19793

HOLDING TANK FILTER

○ Holding tank filter Vétus

Each waste water tank requires an air breather line, through which unpleasant odours may escape. This can be prevented by the installation of a no-smell filter into the breather line. The no-smell filter element contains a special odour-absorbing material. The filter can be installed very easily, with 2 hose connectors for Ø 16, 25 or 38 mm. The filter element is exchangeable and should be renewed once a year.



Modèle NSF

Reference	Ø pipe (mm)
AR21591	16
AR21592	25
AR21593	38

Anti-odor pipe



Ø 38 : AR21140

Ø 25 : AR19977

Spare cartridge vétus : AR21594

- **holding tank filter Sealand**



Réf : **AR14435** for flexible 5/8"

Réf : **AR21492** for flexible 1"1/2

Spare cartridge :

Réf : **AR14436** for flexible 5/8"

Réf : **AR14438** for flexible 1"1/2

- **Connection**

Half couplings with lock, with barbed reduced

DN	Ø sur douille
25	DAR 25
40	DAR 25
40	DAR 30
40	DAR 35
40	DAR 40
50	DAR 45
50	DAR 52
50	DG en extension 60
65	DAR 65
80	DAR 80
100	DAR 100
100	DAR 105
150	DAR 152



specify at ordering the workpiece material: Aluminum, Bronze or Polypropylene

Junction with double locks.

DN 1	DN 2	Désignation
32	20	junction wiht double locks
32	25	junction wiht double locks
40	20	junction wiht double locks
40	25	junction wiht double locks
40	32	junction wiht double locks
50	25	junction wiht double locks
50	32	junction wiht double locks
50	40	junction wiht double locks
65	40	junction wiht double locks
65	50	junction wiht double locks
80	40	junction wiht double locks
80	50	junction wiht double locks
80	65	junction wiht double locks
90	80	junction wiht double locks
100	40	junction wiht double locks
100	50	junction wiht double locks
100	65	junction wiht double locks
100	80	junction wiht double locks
150	100	junction wiht double locks



specify at ordering the workpiece material: Aluminum, Bronze or Polypropylene

Caps with lock and chain

DN	Désignation
15	Bouchon avec verrou
20	Bouchon avec verrou
25	Bouchon avec verrou
32	Bouchon avec verrou
40	Bouchon avec verrou
50	Bouchon avec verrou
65	Bouchon avec verrou
80	Bouchon avec verrou
100	Bouchon avec verrou



specify at ordering the workpiece material: Aluminum, Bronze or Polypropylene

HALF-COUPLING SLEEVE AND COLLAR WITH TUMBLERS WITH SEAL

Ø sur douille

DGC 13

DGC 16

DGC 19

DGC 25



specify at ordering the workpiece material: Aluminum, Bronze or Polypropylene

Adapters "e", with barbed fitting

DN	Ø on sleeve
3/4	21,5
1	27,4
1 1/4	34,1
1 1/2	40,5
2	53,2
2 1/2	66,7
3	76
3	79,4
4	102
4	104,8



specify at ordering the workpiece material: Aluminum, Bronze or Polypropylene

Adapters "c", with barbed fitting

DN	Ø on sleeve
¾	21,5
1	27,4
1¼	34,1
1½	40,5
2	53,2
2½	66,7
3	76
3	79,4
4	102
4	104,8



specify at ordering the workpiece material: Aluminum, Bronze or Polypropylene

Storz coupling half a gorge bush

Model	Ø on sleeve
D.25	Douille 25
C.52	Douille réduite 38
C.52	Douille réduite 42
C.52	Douille réduite 45
C.52	Douille 52
B.75	Douille réduite 70
B.75	Douille 75
A.110	Douille réduite 100
A.110	Douille 110



specify at ordering the workpiece material: Aluminum, Bronze or Polypropylene

Connection joint connection with international (ship side)

DN	reference
40	AR21608
65	AR21607

Only bronze.



- Filling / Sealing

FAK : Case of 1^{ère} intervention



The material is contained in an aluminum case dimensions: 582 x 385 x 277 mm waterproof

- 1 protective clothing with oil cap
- 1 pair of goggles ventilated
- 1 gloves long sleeves for
- 2 plasti-plac-use protective unique: 900 x 900 mm
- 1 plate-thick neoprene foam. 5mm-1m x 50 mm
- 1 hammer protection
- 1 spanner wrench bronze
- 1 pliers protected polyurethane
- 1 screwdriver protected polyurethane – lame diam. 7
- 1 cotton twine ball
- 4 sandows diam. 6mm en 5 mètres
- 6 absorbent towels
- 4 wooden wedges
- 2 Cones / pinoches wood
- 2 truncated cones wood
- 1 shutter – petit modèle diam. 8 cm
- 1 shutter – grand modèle diam. 12 cm

Reference : AR21619

VETTER : Hig pressure anti-leak system

The sealing of leaks that occur on pressure piping, fittings and moldings are generally notor difficult to control with dock seals leak standards.

The different lengths of hoses allow a very good adaptation to different pipe diameters.

AVANTAGES

universal use

easy operation

For cons-pressures up to max. 9 bar (90 m EC)

Use specifically on the elements in T, elbows or pipes
connection problems

Delivery as a basic kit and kit Premium

Panel with additional sealing of various materials (NBR, EPDM, FKM) - increased resistance

SECURITY

valve discharge pressure between the pressure regulator and hose
filling

metal element on the flexible sealing stainless steel

Test pressure 1.6 times the operating pressure

electrostatic conductivity constant sealing hoses (DIN ISO 8031/8.97) connection ground on both sides of the flexible sealing couplings.





CAUTION: The equipment requires a compressed air source.



KIT DE BASE : AR21620

A flexible sealing 1,5 m + 1 + a filling valve for filling flexible sealing panel + 1 + 1 + 1 bleed valve carrying case.

KIT PREMIUM : AR21621

3 flexible sealing 1.5 / 2.5 and 3, 5m + 1 + 1 refill valve filler hose pressure regulator + 1(200/300 bar / 4500psi + 3 + 1 panels seal drain valve + 1 case transport.

Flexible d'étanchéité de rechange :

Reference	AR21622	AR21623	AR21624
Model	Sealing flexible 1,500 mm	Sealing flexible 2,500 mm	Sealing flexible 3,500 mm
Maximum operating pressure (bar)	10	10	10
Try pressure (bar)	16	16	16
Against pressure max. (bar)	9	9	9
Volume nominal (L)	0,74	1,33	1,86
Need in air at 10 bar (L)	8,14	14,63	20,4
Temprature (°C)	-30° / +80°	-30° / +80°	-30° / +80°
Weight (*) (kg)	1,14	1,38	1,77

Leak bandage

A quick and uncomplicated when this is to seal leaking pipes often → ladies giving off hazardous liquids to humans and the environment.

With the bandage XL leaks, major leaks pose more problems. In the case of the tire leak LB 5-20 XL, the width of the sealing surface has been extended from 19 to 38 cm, which greatly increases the usability.

Bandages not only help seal leaks in pipes and storytelling → nears round with diameters of 5-48 cm, but also to seal longitudinal cracks by setting up the bandage along the crack and securing it with a beam wood ratchet and a strap.



Avantages

- Fill with an air pump off
- Ease of Use
- seals a pipe on its periphery
- Many possible uses

Sécurité

- → test pressure 1.3 times greater than the operating pressure
- Brief guide on the tire
- Anti-static properties and self-extinguishing

Désignation	Bandage LB 5-20	Bandage LB 20-48	Bandage LB 5-20 XL
Dimensions (L x l x h) (cm)	98 x 21	177 x 21	100 x 40
Surface d'étanchéité (cm)	Largeur 19	Largeur 19	Largeur 38
Suppression de service (bar)	1,5	1,5	1,5
Pression d'essai (bar)	1,95	1,95	1,95
Pression d'étanchéité (mCE)	14	14	14
Volume nominal (L)	9	16	30
Besoin en air (L)	22,5	40,	75
Poids coussin individuel (kg)	2,3	4	5,5
Référence	AR21625	AR21626	AR21627

Leak sealing compound

The ideal first aid kit when this is to seal leaks are difficult to access on you - buluresvalve very small flanges and piping systems in which flow of chemicals or petrochemicals as oil, gasoline, hydrocarbons, acids and bases, solvents and cleaners.

Can not be used to seal water leaks since the leak sealant is water soluble.



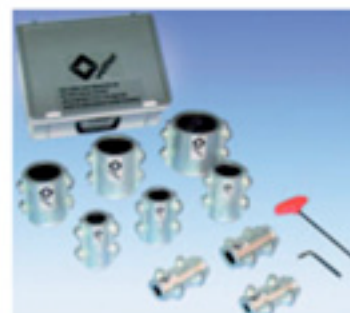
Reference	Model
AR21628	Kit of 8 box 500 ml

pipe sleeve

Where aggressive liquids escaping from small cracks and holes in the pipe system may be responsible so large damages. Headlines A pipe Vetter mastered this type of damage immediately. They are used to mechanically seal the pressure pipe up to 16 bar. It is possible to seal without problem even leaks in pipes at minimum nominal diameter from 1/2".

Fonctionnement :

- Establish the inner seal off the leak
- Ask the sealing sleeve over
- Tighten the screws → so that the sealing sleeve can be pushed into the leak
- Close the sealing collar with screws hexagon socket
- The problem is solved



Reference	Model	Include in the kit Réf : AR21616
AR21629	Sealing sleeve pipe 1/2"	1
AR21630	Sealing sleeve pipe 3/4"	1
AR21631	Sealing sleeve pipe 1"	1
AR21632	Sealing sleeve pipe 1 1/4"	1
AR21633	Sealing sleeve pipe 1 1/2"	1
AR21634	Sealing sleeve pipe 2"	1
AR21635	Sealing sleeve pipe 2 1/2"	1
AR21640	Travel box 400 x 300 x 183 mm	1
AR21639	Allen key	1
AR21638	Skrewdriver allen key	1
AR21636	Sealing sleeve pipe 3"	1
AR21637	Sealing sleeve pipe 4"	1



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