

CITY OF CAPE CORAL
REQUEST FOR SOLE SOURCE OR SINGLE SOURCE PURCHASE

Requesting Department: STORMWATER

Vendor Name: CANADIAN ZOND, CA PRODUCTS

Vendor #4987 Products Etang CA, Ltee

Address: 570 De KAWITON CH, KAWITON AC JOE IVO

Phone: 1-450-243-0970 E-Mail: MPAGUETTE@CANADIANZOND.CA

Price: \$ 45,752.45

Description of item to be procured:

3/4 inch Reinforced torpede tubing, 3/4 inch self sinking bubble tubing and hardware for both

1.) Uniqueness of vendor's item/service. How is this vendor the only vendor uniquely qualified to provide the product or service:

THE VENDOR IS THE SOLE DEVELOPER AND MANUFACTURER OF THE BUBBLE TUBING AND TORPEDO TUBING. THE HARDWARE KITS ARE CUSTOM MADE BY A LOCAL COMPANY SPECIFICALLY FOR THE VENDOR TO MEET THEIR REQUIRES MEASUREMENTS NEEDED FOR BOTH BUBBLE AND TORPEDO TUBING.

2.) Market Research. Describe other, similar sources or products available in the market, if any, and why they are not acceptable:

RESEARCHED THE INTERNET FOR COMPANIES THAT OFFER THE EXACT PRODUCT WE ARE LOOKING FOR. THERE WAS NO COMPANY THAT OFFERED THE PRODUCTS. I THEN CALLED THE VENDOR AND FOUND OUT THEY ARE THE SOLE DEVELOPER AND MANUFACTURER AS STATED ABOVE.

3.) Proposed Actions. Describe the actions the department will take to overcome the present barriers to competition for any future acquisition of this product or service:

WE WILL CONTINUE TO RESEARCH DISTANT VENDORS ONLINE TO SEE IF THEY START PROVIDING THE EXACT PRODUCT WE NEED.

Department Director's Signature: [Signature]

Date: 7/10/24

Approval: Procurement Manager [Signature]

(not to exceed \$50,000.00)

Date: 7/10/24

Approval: City Manager _____

(not to exceed \$100,000.00) Date: _____

Council authorization required if exceeding \$100,000.00

Revised 1/6/2020- Per Ordinance #52-19, Article VII: Purchase and Sale of Real and Personal Property. Adopted 12/02/2019

Requisition: 2400 ⁴²⁰³ ~~2403~~



TO: Mark Mason, Director of Financial Services
Wanda Roop, Procurement Manager

FROM: Matt Williams, P.E., CFM, Public Works Director *MW 6/27/24*
Hugo Delgado, Stormwater Manager *HD 6.26.24*

DATE: June 20, 2024

SUBJECT: Sole Source Justification- Canadian Pond

BACKGROUND:

The Stormwater Operations Division oversees the maintenance of existing Bubble Curtain Algae systems throughout the City. The former company we dealt with to get the Bubble Curtain Air Hose no longer supplies the hose which they ordered from Canadian Pond as a distributor. Canadian Pond provides the 3/4" course Hose which we use in our present systems. This hose is proprietary to Canadian Pond.

Stormwater Operations is requesting to open a Purchase Order for Canadian Pond in the amount of \$45,752.45.

RECOMMENDATION:

We are recommending a Sole Source for Canadian Pond for the materials needed to properly maintain the Bubble Curtain system that is currently installed in the city of Cape Coral. There are similar products such as smaller hose, however, those products would not provide the necessary coverage we need, and it would require the complete renovation of the Compressor systems.

FUNDING:

Bubble Curtain Fund – Stormwater Operations- Canal Maintenance
441-30450-56401-30-75-538060 Project String C304501018-0000-564101.

MW/HD:rg

Attachments: Vendor Quote
Sole Source justification

c: Alicia Pearce Smith, Public Works Business Manager *APS*

Sales Quote

V-DEV5623



Cape Coral
Richard Miles
1016 Cultural Park Boulevard
Cape Coral, Florida 33990
USA

Ship-to Address
Cape Coral
Richard Gainley
2451 SE 17th Ave
Cape Coral, Florida 33904
USA

Etang.ca
570 Ch. de Knowlton
Knowlton, QC
J0E 1V0

Document Date
June 11, 2024

Valid to
July 11, 2024

Salesperson
Mikael
Paquette

Payment Terms
Payable in advance

Shipment Method
INCOTERM 2020:
DDP - (See Ship-To
Address)

No.	Description	Quantity	Unit	Unit Price	Escompte/ Discount (%)	Line Amount
	City Of Cape Coral order for Bubble Curtains				0	
	No compressors*				0	
TORI34-100M- 328'	3/4" I.D. Reinforced Self-Sinking Torpedo Tubing - 100m (328')	6	Unit	1,870.33	0	11,221.98
01-5-TORI34- LINES	3/4" Industrial Torpedo Hardware	24	KIT	53.13	0	1,275.12
01-5- BUB34LINES- 316	3/4" Bubble Tubing@ SS 316 Industrial Hardware	24	KIT	222.53	0	5,340.72
BUB34-60M- 198'	3/4" I.D. Self-Sinking Bubble Tubing@ - 60m (198')	11	Unit	2,101.33	0	23,114.63
PREP	Packaging, preparation and handling fee	1	Unit	2,500.00	0	2,500.00
DOUANES	Customs fees	1	Unit	40.00	0	40.00
LIVRAISON	Shipping Details: shipped to :2451 SE, 17th Ave	1	Unit	2,280.00	0	2,280.00
	Signature not required, leave at door (not applicable for skid deliveries)				0	
	Remote locations excluded, additional fees may apply				0	

Website
www.canadianpond.ca

Phone No.
T: 450 243-0976

Email
info@canadianpond.ca

GST/HST Registration No.
890116908

Sales Quote V-DEV5623

June 11, 2024

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**Skid: residential delivery not
included**

0

Total USD \$	46,752.45
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Patrick McDonald, eng.
Co-Director of sales and business engineer
Canadian Pond.ca Products Ltd.
570 Knowlton Rd.
Lac-Brome, QC, J0E 1V0, Canada

June 18th, 2024

City of Cape Coral
1015 Cultural Park Boulevard
Cape Coral, FL 33990

Dear Richard Miles II and whom it may concern,

This is to inform you and the City Cape Coral, that Canadian Pond.ca Products Ltd and its trademarked technology Bubble Tubing® are the sole providers of this product. As the leader in aeration, we've developed an air diffusion system that is self-sinking, self-cleaning, flexible, high quality and industrial grade. The use of Bubble Tubing®, immersed in water creates a curtain of fine bubbles which, rising to the surface, expand and act as a barrier. A bubble curtain can prevent floating debris from entering a channel such as floating algae or plastic debris. Canadian Pond.ca Products Ltd has no authorized US distributors.

We also developed the self-sinking Torpedo tubing to be perfectly designed to function with Bubble Tubing®. It acts as an air feeder line. Torpedo tubing is a high-quality industrial-grade self-sinking reinforced feeder lines made in Canada and built for variable applications. Torpedo is made of a durable reinforced PVC making it much more resistant to heat than regular self-weighted tubing. Torpedo tubing includes a braided polyester liner which provides a high burst rate and ensures that the tubing keeps its shape. Canadian Pond.ca Products Ltd has no authorized US distributors for this product either.



Also, the associated hardware kits (fittings, clamps, unions, and adapters) were specially chosen to work with the Bubble Tubing® and Torpedo.

Canadian Pond.ca Products Ltd is ISO9001:2015 certified and our Bubble Tubing® has been third party validated for multiple applications including for bubble curtains.

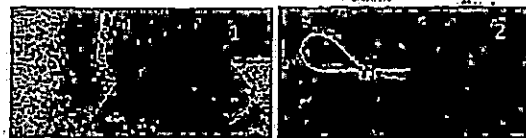
We thank you for your interest,



Patrick McDonald, eng. 18/08/2024

WHAT'S INCLUDED IN THE BOX:

- Bubble Tubing[®]
- Check Valve
- Clamps
- Plug



Note: There are many possibilities on how to install the system in water, this assembly instruction is not site specific. Refer to site plans or contact our technical support for assistance.

STEP 1 - BUBBLE TUBING[®] PREPARATION

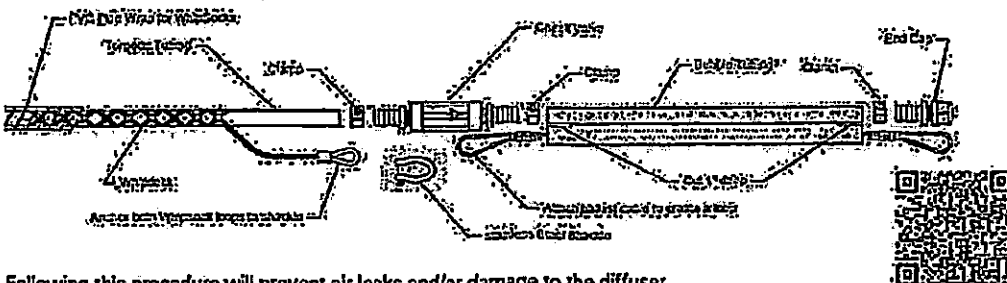
Before connecting Bubble Tubing[®] to Torpedo, or another air feeder line, uncoil it, making sure it is not twisted. (Picture #1) If possible, let the tubing rest in the sun uncoiled before installation of the system.

With a knife, cut 1 foot long of the ballast and the diffuser tubing on both ends of Bubble Tubing[®], leaving 1 foot of the steel cable exposed. Fold the steel cable toward the ballast of Bubble Tubing[®] to form an eyelet which needs to be locked by Crosby clips. (Picture #2) The loops can be used to pull on the tubing and to connect the whip sock (optional to purchase). (Picture #5)

STEP 2 - REACHING THE DESIRED LOCATION

Using a reel dispenser (Picture #7), uncoil Torpedo from a boat until you reach near the desired location for your Bubble Tubing[®] diffuser. Make sure to stop the boat before uncoiling the whole Torpedo tubing and to leave some slack to make all Bubble Tubing[®] connections on the boat.

STEP 3 - BUBBLE TUBING[®] CONNECTION



Following this procedure will prevent air leaks and/or damage to the diffuser.

Video is also available by following this link or scanning the QR code: <https://vimeo.com/350864572/7da0644d0d>

- 1) If you purchased the whip socks accessory kit, install the whip sock on Torpedo. (Instructions are in the Torpedo assembly manual.) Insert a clamp to the end of Torpedo, then, insert the tubing over the barbed part of the check valve. Make sure the airflow follows the directional arrow written on the check valve. (Arrow must point toward Bubble Tubing[®]) Tighten the clamp using a nut driver or ratchet.
- 2) With a knife, cut the ballast of Bubble Tubing[®], on both ends, in a V shape under the diffuser (Picture #3), do not cut the white bonding glue. (Picture #4)
- 3) On one end, insert a clamp to Bubble Tubing[®], using the cut made at #2. (Picture #4) Then, insert the tubing over the remaining portion of the check valve and tighten the clamp using a nut driver or a ratchet.
- 4) On the remaining end of Bubble Tubing[®], insert a clamp, then insert the tubing over the barbed portion of the plug and tighten the clamp around the tubing using a nut driver or ratchet. (Picture #6)
- 5) If you purchased the whip socks accessory kit, attach the eyelet steel cable of the ballast to both whip sock's eyelets with a shackle to secure the tubing. (Picture #5)

Refer to pictures #4-5-6 at the back of this page for expected results.



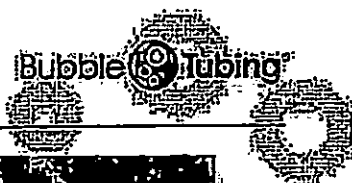


Figure 4: Bubble Tubing cut with clamp.



Figure 5: Check valve connection and secured steel cable eyelet from ballast.



Figure 6: Plug installation.

STEP 4 – INSTALLING BUBBLE TUBING® IN WATER

Once all the connections are secured, progressively turn on the compressor. Scan QR code for video on how to start the system. Make sure not to tangle or twist the tubing. With the reel dispenser slowly continue lowering the tubing into the water as it sinks to the bottom. You should see bubbles and be able to use them as visual references to make sure the tubing is diffusing at the desired location. Try positioning Bubble Tubing® keeping it as level as possible. The tubing can be placed in a circle, curve, or straight line to follow a continuous bathymetric line.



In the event of strong water currents or waves, Bubble Tubing® may be displaced. If there is a high risk of these conditions occurring, it is advisable to anchor your tubing. We recommend the use of a sonar or "depth finder" if you do not know the specific bathymetric contour in the water. (Figure #1 and 2)

Figure 1: Incorrect installation. Bubbles are not coming out evenly from Bubble Tubing®. Air bubbles will release at start and end where depth is shallower.



Figure 2: Correct installation. Air bubbles are releasing evenly along the same depth.



MAINTENANCE

Bubble Tubing® is designed to permanently stay at the bottom of water. Various conditions (biofilm, calcification, etc.) can reduce aeration performance with time (less bubbles visible at the surface). In this case, cleaning the tubing might be needed. For optimal performance, when in hard water conditions, we recommend cleaning the tubing once or twice a year, based on water quality. BioPurge and EcoPurge are the only products tested and approved to clean the Bubble Tubing. Do not use chlorine, Javex, Drano or any other chemical product to clean the tubing. Do not use a compressor providing more than 50 PSI without whip socks or 150 PSI with whip socks or a shop compressor not equipped with a pressure regulator.

WARRANTY

CanadianPond.ca Products Ltd offers a 1-year warranty on Bubble Tubing®

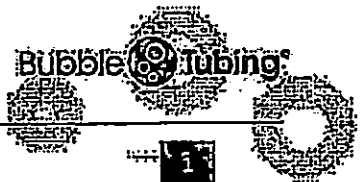
Warranty Claim Procedure

Be sure to have the original invoice on hand before contacting us for a claim. Contact CanadianPond.ca Products Ltd. at 450-243-0976 or by email info@canadianpond.ca. No returns will be accepted without a return authorization number provided by Canadian Pond.ca Products Ltd.

Terms and conditions

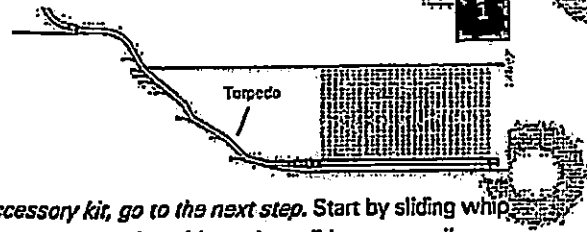
For any questions regarding your purchase, please refer to the terms and conditions by scanning this QR Code before contacting Info@canadianpond.ca.





WHAT'S INCLUDED IN THE BOX:

- Torpedo
- Clamps
- Union
- All other hardware



STEP 1 – IF YOU PURCHASED WHIP SOCKS

Optional, if your system does not use a whip sock accessory kit, go to the next step. Start by sliding whip socks on the Torpedo and Heat Resistant Hose. *Hint: Compress the whip sock to slide more easily over the tubing.* (Picture #2 & 3) A rubberized tape, included with the whip sock kit, must be installed 5 inches over whip sock and extended 5 inches over the tube for bonding. The application of rubberized tape where the whip sock ends is necessary for safety and to prevent slipping in case of failure. (Picture #4)



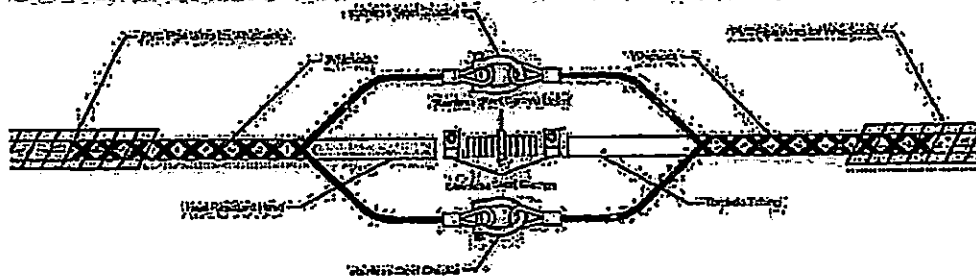
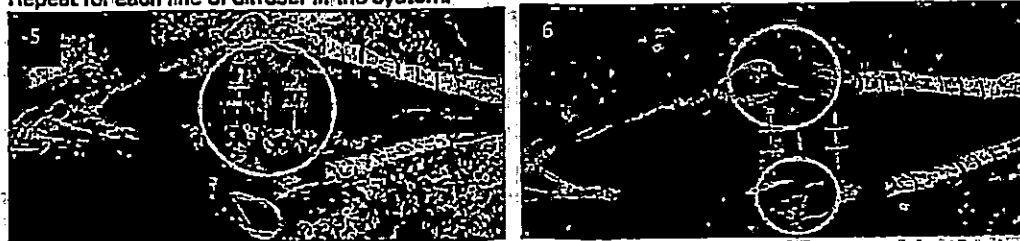
STEP 2 - CONNECTING TORPEDO TO HEAT RESISTANT HOSE

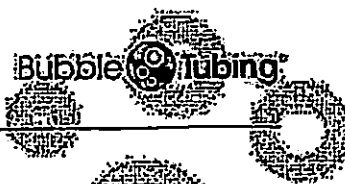
Make sure the Torpedo hose is protected from direct sunlight and/or high heat sources. As shown in image #1, Torpedo connections usually start at the shore. If a section of the Torpedo Pipe must be out of water, you can bury that section to ensure a longer lifespan.

Insert a clamp to the end of the Heat Resistant Hose and Torpedo. Insert a barbed connector in the middle and insert the Heat Resistant Hose and Torpedo tubing over the barbed parts of the union. Tighten the clamps using a wrench or ratchet. (Picture #5) Make sure the connection is secured.

Optional, if your system does not use a whip sock accessory kit, go to the next step. Attach the eyelets of both whip socks together using the supplied shackles. (Picture #6)

Repeat for each line of diffuser in the system.





STEP 3 – TORPEDO FEEDER LINE LENGTH

When connected, uncoil Torpedo Tubing towards the water. Make sure the torpedo feeder line is long enough to reach the desired area for the diffuser in water. *If required, cut the tubing with a knife.*

STEP 4 – OPTIONAL: CONNECTION TORPEDO TO TORPEDO

Optional, if your system does not require this connection, go to the next step. Start by inserting whip socks to both Torpedo tubing, as seen in step 1. Insert a clamp to the end of both Torpedo tubing. Insert a barbed union in the middle and insert each Torpedo tubing over the barbed parts of the union. Tighten the clamps around Torpedo using a wrench or ratchet. Make sure the connection is secured. Attach the eyelets of both whip socks together using the supplied shackles. (Picture #6)

STEP 5 – INSTALLATION

Uncoil Torpedo to the shore and put the rest of the coil in the boat. Using a reel dispenser (Picture #7), uncoil Torpedo air feeder line in the water until you reach the desired location for your Bubble Tubing[®] or another diffuser.



For diffuser connections, follow the Bubble Tubing[®] instructions manual.

In the event of strong water currents or waves, Torpedo hose may be displaced. If there is a high risk of these conditions occurring, it is advisable to anchor your tubing.

We recommend the use of a sonar or 'depth finder' if you do not know the specific bathymetric contour in the water.

MAINTENANCE

Torpedo is designed to permanently stay at the bottom of water. BioPurge and EcoPurge are the only products tested and approved to clean the tubing. Do not use chlorine, Javex, Drano or any other chemical product to clean the tubing.

WARRANTY

CanadianPond.ca Products Ltd offers a 3-year warranty on Torpedo.

Warranty Claim Procedure

Be sure to have the original invoice on hand before contacting us for a claim. Contact CanadianPond.ca Products Ltd. at 450-243-0976 or by email info@canadianpond.ca. No returns will be accepted without a return authorization number provided by Canadian Pond.ca Products Ltd.

Terms and conditions

For any questions regarding your purchase, please refer to the terms and conditions by scanning this QR Code before contacting info@canadianpond.ca.



Bubble Tubing® Linear Diffuser

Bubble Tubing® is a flexible linear air diffuser made in Canada, kink resistant and retains its original shape.

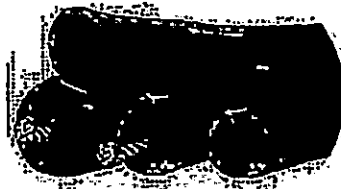
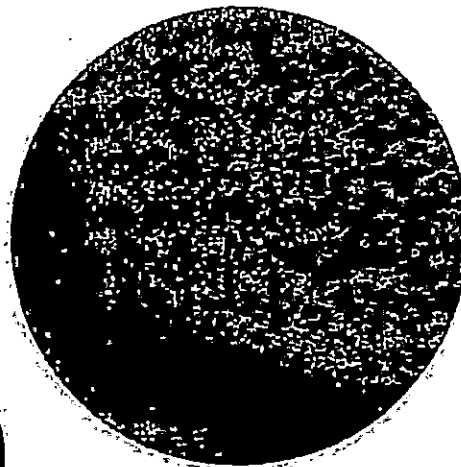
With a row of perforations on each side, Bubble Tubing® produce many air bubbles (1mm to 3mm diameter). Bubbles rise evenly from where it was installed. Bubble Tubing® is an extremely effective diffuser for a wide range of applications. Most versions of the tubing include a ballast fused to the tubing to keep it at the bottom of the water.

For Industrial applications, varying lengths of Bubble Tubing® are available. Installation is facilitated by the integrated stainless steel cable.

Bubble Tubing® does not contain any moving parts, its maintenance is quick and easy.

"Overall, the results obtained for the CanadianPond.ca Products Ltd. Aeration systems were uniformly excellent and produced some of the highest SOTE values GSEE Inc. has observed."

GSEE, Inc.
Environmental Consultants,
Laverne, TN



Applications:

- Aeration
- Underwater Sound Attenuation
- Aquatic Bubble Barrier
- Water Mixing
- Pathogen Reduction
- Deicing
- Depletion

Third Party Tested:

- Aeration - GSEE
- Deicing - CFD - C Core
- Sound Attenuation - GKM Consultants
- Debris Depletion - CFD - C Core

Maintenance / Warranty:

- Use bubble purge product periodically to remove the bio-film that clogs the diffuser.
- Safe for aquatic plants and fish.
- Short burst of overpressure can also be used to clean the tubing.
- 5 year warranty.

Dimensions and Formats:

- Dimensions: 1/2", 3/4", 1" and 1.25" ID.
- Weighted, non-weighted.
- Available in rolls or spools.
- Custom length available.

Construction / Requirement:

- Material: PVC
- Made in Canada
- Resist deterioration from exposure to UV rays, chemicals, salinity and changes in pH or temperature of water.
- Stainless steel cable integrated (on tubing of 3/4", 1" and 1.25" size).
- Diffuser
- Factory made Holes
- Ballast
- Stainless Steel Cable
- 40 psi - 2.8 BAR minimum pressure compressor capacity

Contact us for our expertise!

570 Knowlton, Lac-Brome, Québec, J0E 1V0, Canada

T: 450 243-0976

info@bubbletubing.com

Bubbletubing.com

Bubble Tubing® is a trademark owned by CanadianPond.ca Products Ltd.



Torpedo Tubing, Self-Sinking Air Feeder Line



Torpedo tubing is a high-quality industrial grade self-sinking reinforced feeder line made in Canada and built for variable applications.

Torpedo is made of a durable reinforced PVC making it much more resistant to heat than regular selfweighted tubing.

Torpedo tubing includes a braided polyester rope which provides a high burst rate and ensures that the tubing keeps its shape.

The PVC material resists deterioration, corrosion and UVs. Torpedo can also withstand a broad range of chemicals, salinities, pH and temperatures.

The thickness of the wall prevents perforation and kinks. The added weight of the wall guarantees selfsinking.

The Torpedo tubing is made to be and tested in water. Exposing this hose out of the water can affect its performance if exposed to heat.



Torpedo hose in a pond connecting Bubble Tubing® lines and the compressor.

Dimensions and formats

- Offered in the following ID sizes: 1/2", 3/4", 1", 1.25" et 1.5" ID
- Available by the foot, coil or reel
- Cuts easily with an X-Acto type knife

Application

- Aeration
- De-icing
- Bubble curtains

Markets

- Wastewater
- Agriculture
- Energy Sector
- Mines

Tubing Options

TOR11/2

Maximum Pressure: 160 PSI - 10.3 BAR
 0.678" ID x 0.935" DE 0.35 lb/ft
 1.66 cm ID x 2.43 cm DE 0.62 kg/m

TOR13/4

Maximum Pressure: 300 PSI - 20.7 BAR
 0.8" ID x 1.14" DE 0.78 lb/ft
 2 cm ID x 3.5 cm DE 0.92 kg/m

TOR15

Maximum Pressure: 150 PSI - 10.3 BAR
 1.550" ID x 2.630" DE 2.61 lb/ft 1.94 cm ID x 6.63 cm DE 2.97 kg/m

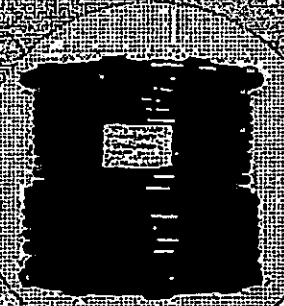
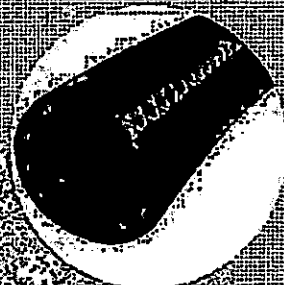
TOR11.0 rt

Maximum Pressure: 150 PSI - 10.3 BAR
 1.06" ID x 1.8" DE 1.2 lb/ft
 2.69 cm ID x 4.60 cm DE 1.79 kg/m

TOR11.25

Maximum Pressure: 750 PSI - 51.7 BAR
 1.325" ID x 2.255" DE 1.9 lb/ft
 3.37 cm ID x 5.73 cm DE 2.62 kg/m

Braided sheath made of polyester



Canadian Pond.ca Products Ltd. Your partner for the maintenance and preservation of water bodies

570 Knappton, Lac-Brome, Québec J0E 1Y0 CANADA
 T: 450-443-0076 info@canadianpond.ca canadianpond.ca

Canadian Pond