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Infлотrolix Inc.
**INSTALLATION AND REMOVAL
INSTRUCTIONS
FOR AQUA-PROTEC & RPSM**

PROJECT	AP-01 – BL-01
SPECIFICATION	N/A
COMPONENT	AQUA-PROTEC & RPSM
BCS PART NUMBER	AP-01, BL-01
CUSTOMER COMPONENT NUMBER	N/A
SAMPLE	N/A

Name / Title

Signature

**Date
(YY/mm/dd)**

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Date of 1st revision (YYYY/mm/dd)	2009-05-01	Revision number:	A
Last revision date: (YYYY/mm/dd)	2014-05-08		G

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Revision List

Revision number	Date (YY/mm/dd)	Description
A	2009-06-01	Release of document
B	2010-08-15	Major change of the control panel
C	2011-01-15	Change in installation procedures
D	2011-12-05	Change in installation procedures
E	2012-03-01	Change in installation procedures
F	2013-05-23	Security seal and RPSM
G	2014-05-08	Cable tie, anchor ring, typical installation drawings



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1- GENERAL

This document contains the instructions for installing and removing the Aqua-Protec (AP-01) and the Retractable Pneumatic Sealing Module (RPSM) (BL-01 used as example and referred to as bladder). This document is intended for "Inflotrolix Certified" plumbers & technicians. The configuration instructions for the Aqua-Protec control panel are contained in a separate document. This document is exclusively intended for plumbing & control industry professionals.

2- TYPICAL INSTALLATION DRAWINGS

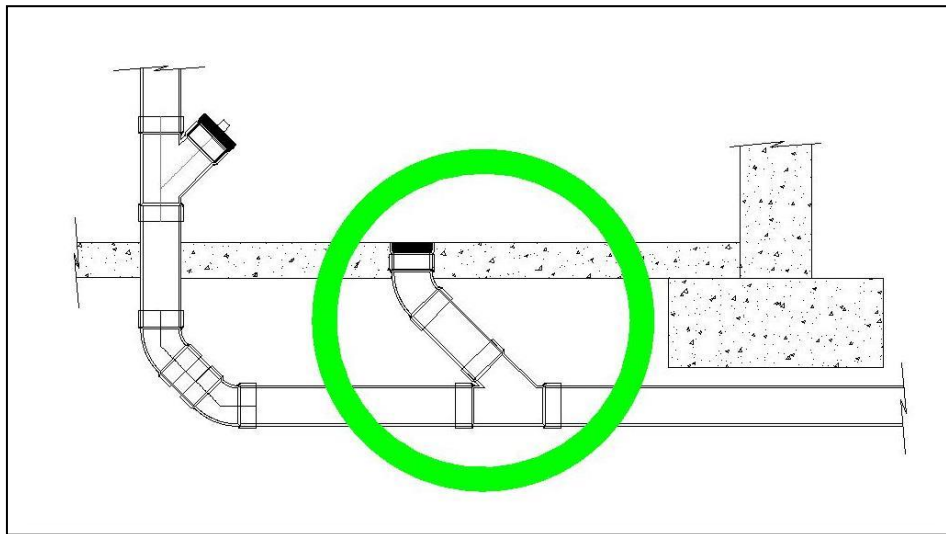


Figure 1: Typical installation

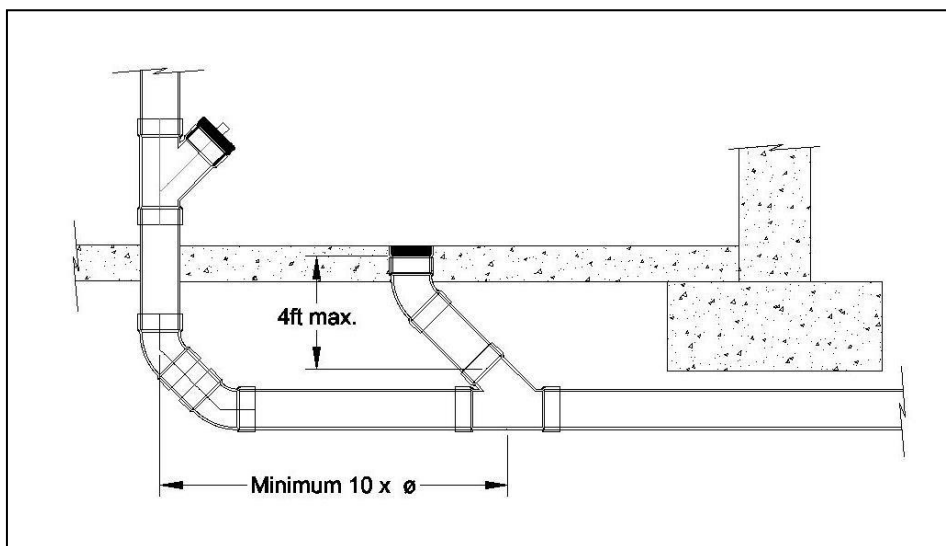


Figure 2: Typical installation –Cables used to extract the bladder limit the installation depth to 4ft. To limit presence of detergent suds we recommend sensors to be 10x pipe diameter away from plumbing stack.

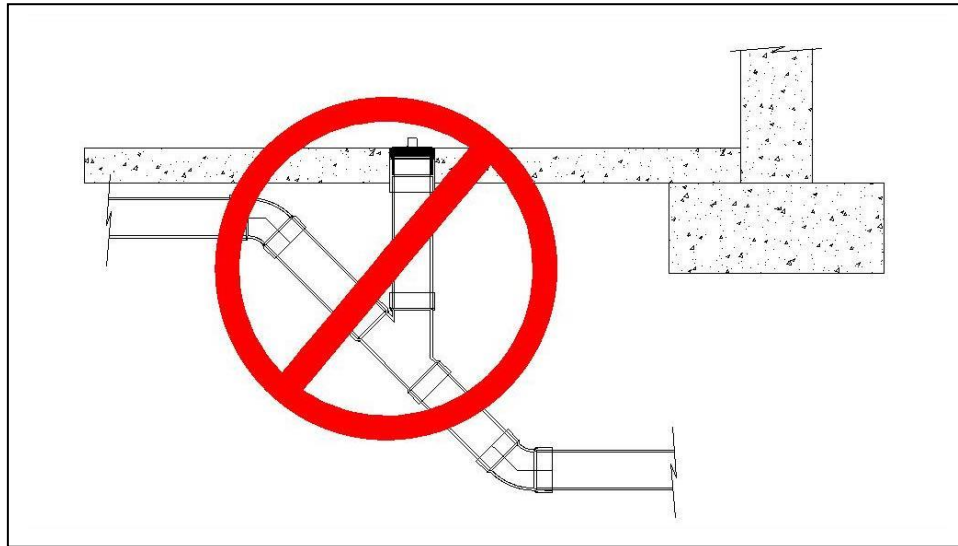


Figure 3: Not recommended installation

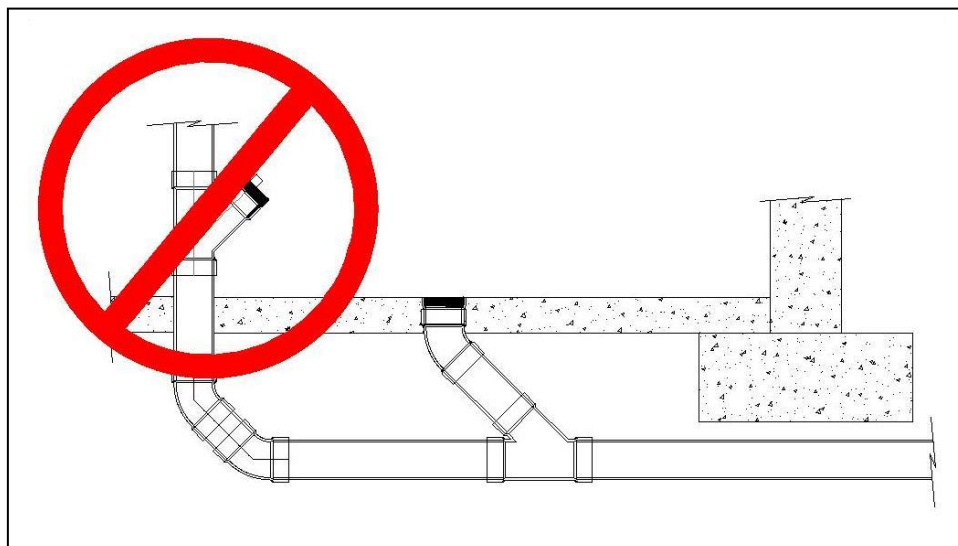








Figure 4: System will NOT protect plumbing fixtures located below that point
(e.g.: floor drain, shower drain, toilet, etc.).

3- CONTENTS OF AQUA-PROTEC SYSTEM

QTY	DESCRIPTION	IMAGE
1	Aqua-Protec (AP-01)	
1	Retractable Pneumatic Sealing Module (RPSM) (BL-01) Referred to as bladder in the manual	
1	Installation rod 5ft (TI-01) or 2ft (TI-02) and sizing tool	
1	Universal clean-out cover (CU-01)	
1	Universal clean-out cover O-ring (large one)	
1	Anchoring ring (AA-01)	

1 Anchoring ring seal



1 Cable gland



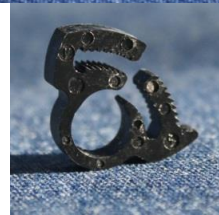
1 Cable gland O-ring (small one)



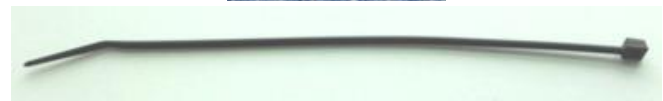
1 Cable gland nut



1 double snap grip clamp



1 Cable tie



1 Compression ring (cast iron)



2 Hex bolts (cast iron)





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2 Washers (cast iron)



1 Stainless Steel hex screw



1 Aqua-Protec Non-petroleum based lubricant vial



1 Aqua-Protec security seal



1 User manual

User Manual



1 Warranty (AP-01 and BL-01)

WARRANTY




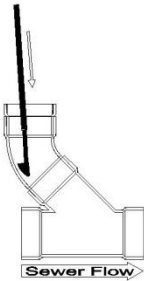
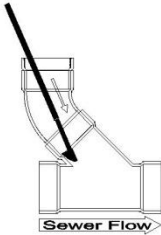
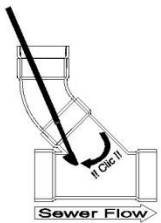
4- REQUIRED TOOLS & EQUIPMENT

- Gloves
- Installation tool (GI-01)
- Nylon pipe brush and steel pipe brush
- Marker
- Cutting tool
- Cable ties
- Hex head screwdriver (5/16")
- Camera (optional)
- Ratchet with ½ inch box (cast iron install)

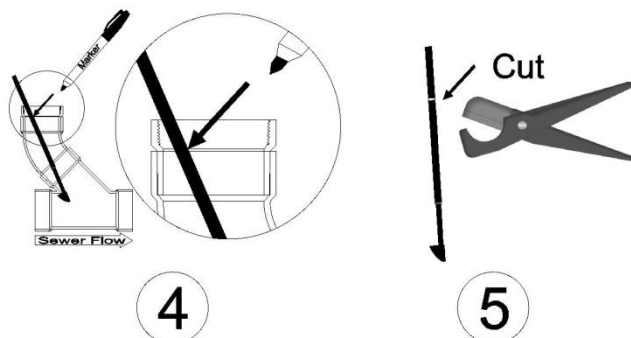


5- INSTALLATION AND REMOVAL OF THE RPSM

5.1 Preparation of Clean-Out for Insertion and the measurement taking

STEP	DESCRIPTION	ILLUSTRATION
	Remove existing cover from the clean-out.	
	Use a flexible pipe brush to clean and remove debris from clean-out assembly.	
	Attach the Installation tool (GI-01) on the Installation rod (TI-01). Sizing tool should be screwed onto receiving end of the installation rod; the assembly should be finger-tight. Position yourself facing the municipal-side of the main sewer pipe.	
	Insert the Installation rod until the sizing tool snaps into place	   <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">1</div> <div style="text-align: center;">2</div> <div style="text-align: center;">3</div> </div>

With a felt marker, draw a reference mark on the Installation rod flush with the bottom of the threads.



Twist the Installation rod 180°, and then slowly pull the sizing tool out of the clean-out assembly.

5.2 Pre-Installation Assembly

STEP	DESCRIPTION	ILLUSTRATION
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5.2.1

Remove the control panel (AP-01) of its packaging.

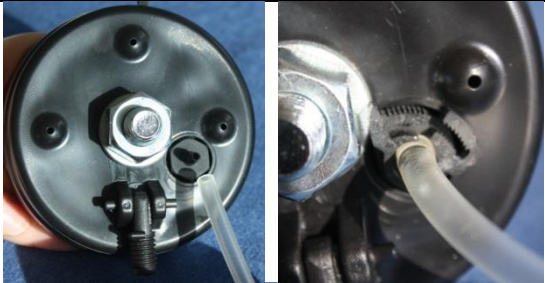
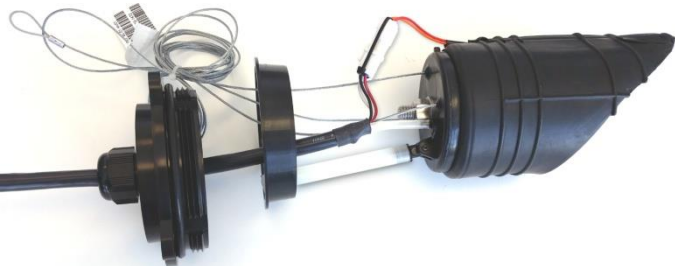


5.2.2







Take the Universal clean-out cover (CU-01) and bladder out of its packaging.



STEP	DESCRIPTION	ILLUSTRATION
5.2.3	Take the Anchoring ring (AA-01) and seals out from packaging. Seal to be installed only for cast iron installation.	 
5.2.4	Depending of the type of pipe, install the cable gland on the correct side of the Universal clean-out cover (CU-01). Do not forget to install the seal on the cable gland first. (left photo: ABS; right photo: cast iron)	 
5.2.5	Insert the end of the umbilical cable through the Universal clean-out cover (CU-01) and the cable gland. The main part of cable gland should always be on the exterior side of the clean-out.	
5.2.6	Feed the umbilical cable through the Anchoring ring (AA-01). The perimeter lip (wide part) should always be on top (next to universal cap).	
5.2.7	Connect the 4pin splash-proof connector of the umbilical cable to the 4pin splash-proof connector of the RPSM.	
	Use a cable tie to double secure the connection.	

STEP	DESCRIPTION	ILLUSTRATION
5.2.8	Connect the air hose of the umbilical cable to the barb fitting on the bladder. Use the double snap grip clamp to secure the air hose in place.	
5.2.9	Attach Installation rod to the bladder bolt-on swivel (finger tight).	
5.2.10	Secure tip of the rod with the hex screw aligned with top of anchoring ring	
5.2.11	The pre-installation assembly should look like this.	

5.3 Insertion and positioning

STEP	DESCRIPTION	ILLUSTRATION
5.3.1	Open the panel with a flathead screwdriver.	
5.3.2	Plug the AC adapter into an electrical outlet.	
5.3.3	In the panel, connect the 3 pin battery connector to the PCB.	
5.3.4	Using a metallic tool, make a connection between the 3 water sensors. The yellow light on panel should light up when touching the sensors.	 
5.3.5	Apply lubricant on the bladder. Lubricant needs to be applied all the way around the top part of the bladder.	

- 5.3.6 Apply Aqua-Protec lubricant on the middle part of the sole of the bladder. Then apply some more on the bottom part of the sole.



- 5.3.7 Insert bladder into the clean-out assembly facing the municipal - side of the sewer pipe.

- 5.3.8 Insert and properly position the bladder inside the wye pushing the rod and keeping the extraction cables taut.



- 5.3.9 Position the Anchoring ring so that it rests securely on the bottom lip of the threaded section of the cleanout entry.

Attach the extraction cables to the Anchoring ring with a cable tie.



- 5.3.10 Hands tighten the Universal Cleanout cap in place and tighten the cable gland to insure water tightness.



- 5.3.11 For a cast iron installation, install the compression ring on top of the Universal Cleanout cap.



- 5.3.12 Tighten the compression ring
with the 2 HEX bolts and
washers contained in the bag



- 5.3.13 Apply the security seal








- 5.3.14 The assembly should be
positioned as such.



- 5.3.15 Using the Configuration Manual, proceed with Aqua-Protec system configuration

5.4 Removal of the bladder

STEP	DESCRIPTION	ILLUSTRATION
5.4.1	Shut-down the control panel. (See shut-down procedure from Configuration manual)	 A photograph of the Aqua-Protec control panel. It is a light green rectangular unit with the Aqua-Protec logo at the top. Below the logo is a small LCD screen and several control buttons, including a power button, a directional pad, and a large black knob on the right side.
5.4.2	Loosen the cable gland	 A close-up photograph showing a person's hands using a screwdriver to loosen a black cable gland on a black plastic component.
5.4.3	Loosen and remove the Universal cleanout cap from the clean-out.	 A close-up photograph showing a person's hands removing a black universal cleanout cap from a black plastic component.
5.4.4	Keeping the anchor ring attached, carefully pull on the Installation rod and the extraction cables until the bladder is retracted out of the clean-out. Lubricate as required.	 A close-up photograph showing a person's hands pulling on a black cable to retract a white bladder from a black plastic component.  A close-up photograph showing the white bladder fully retracted out of the black plastic component.



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6- SAFETY CONSIDERATIONS

It is important that the installer ensures that the Aqua-Protec is safely installed for users. Particular attention should be paid to the anchoring of the control panel on the wall and of the passage of the umbilical cord. This cable should be anchored to prevent anyone from tripping and get hooked, which could result in injury or system damage. Ideally, the cable will be installed under the floor and concealed in the walls so that no one can trip on it.