



Piedmont

PERMEATE CONNECTOR TECHNICAL & COMMERCIAL DATA SHEET

PiPerLink



DS-SP-PC-v09.1 / 28-05-2024

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1. COMPANY PROFILE

PIEDMONT PACIFIC specializes in providing engineered products for corrosive and high-pressure environments. Our expertise in the water industry has a long history which has allowed us to develop unique products for the water treatment and desalination industry.

MISSION & VISION. To improve the connectivity and operator friendliness of RO plants with our permeate connector, engineered stainless steel and composite couplings in addition to fiberglass reinforced polyester cartridge filter housings, for wet and corrosive environments in order to maintain the mechanical integrity and safety of water treatment systems throughout their service life.

PIPERLINK PERMEATE CONNECTOR ADVANTAGE. This product is a versatile solution with multiple types of connections, made of non-corrosive materials and with the possibility of being manufactured to the customer's specifications. In addition, it comes integrated with a sample port. Piperlink is certified for drinking water according to industry standards.

QUALITY CONTROL. Piedmont employs strict manufacturing standards to ensure the quality, durability and strength of all our parts. With each batch, we record quality data on a certificate of material at the factory and continue to monitor quality through the packaging and labeling of the boxes to shipment of the parts. Our suppliers comply with these same high-quality standards and are audited regularly by our Quality Control.

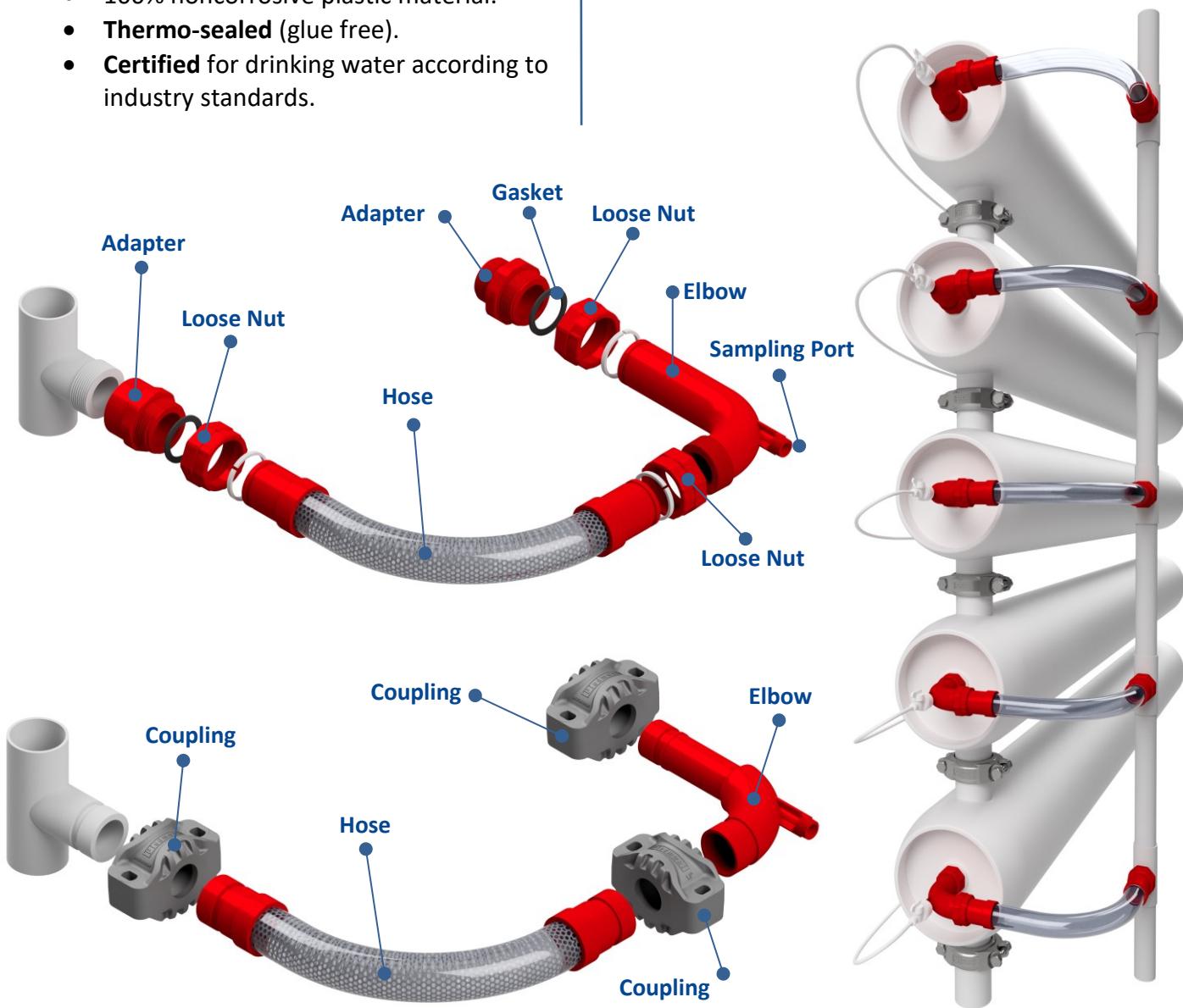


2. FEATURES & BENEFITS

PiPerLink

- **A solution for every RO vessel** brand, type of connection and size.
- **Versatility** in design and variety of connection type that allows cost savings in the design, manufacturing and installation of plants.
- Improved hydraulics which leads to **energy savings** due to a **lower pressure drop**.
- 100% noncorrosive plastic material.
- **Thermo-sealed** (glue free).
- **Certified** for drinking water according to industry standards.

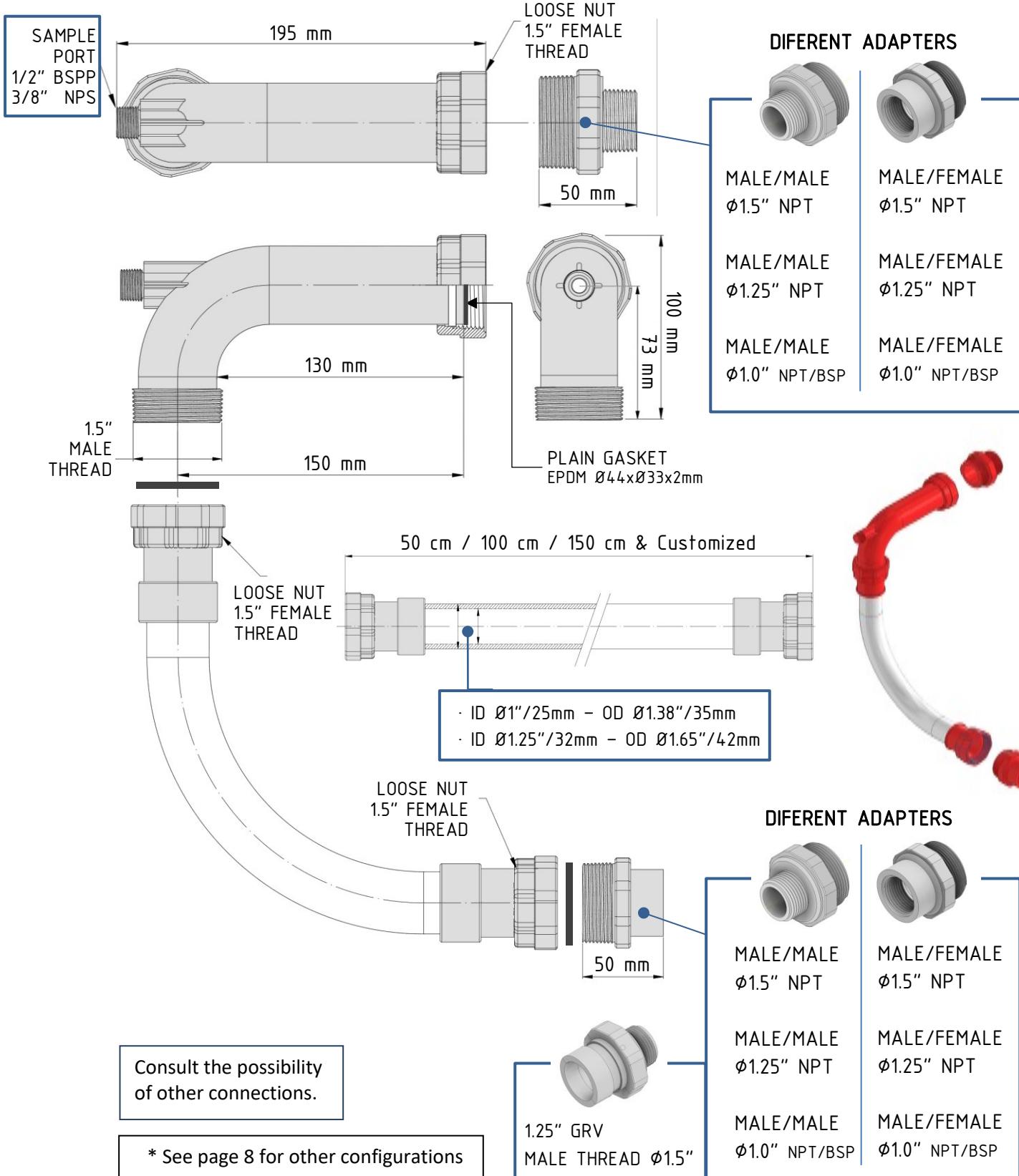
- **One product / One manufacturer / One supplier**
- **Customizable products** for a plug-and-play installation without any secondary operation (no need to cut to size, weld, glue...)
- More cost effective.
- Reduction of connections, lower risk of leaks.
- **Integrated sample port.** Probing can be done without disassembling the permeate connector.

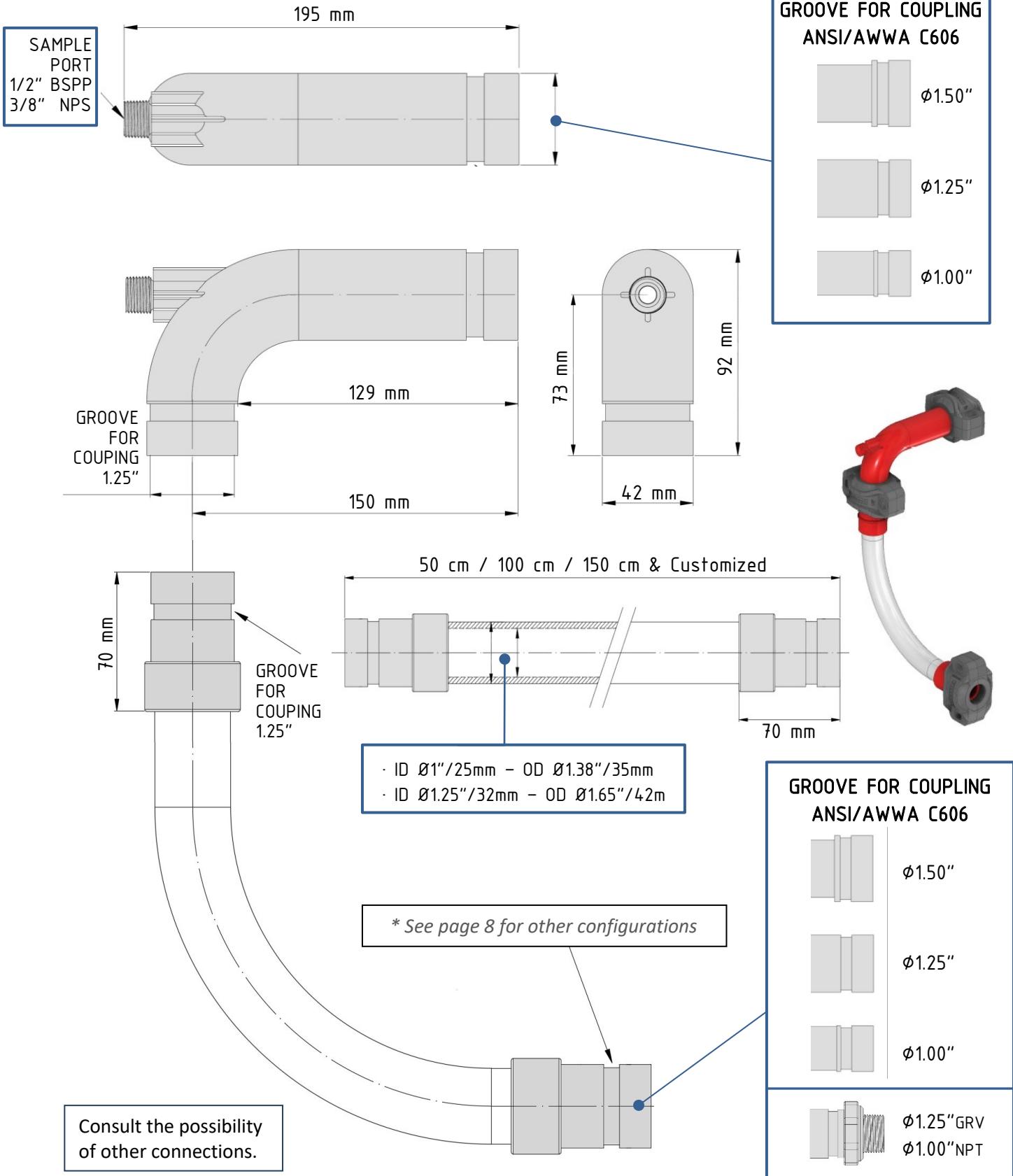


3. SPECIFICATIONS

	ELBOW	HOSE
DIMENSIONS Ø:	1"/1.25"/1.5"	1"/ 1.25"/ 1.5"
LENGTH:	150 mm	50 cm / 100 cm / 150 cm /Customized upon request
MATERIALS:	PP (Polypropylene) + EPDM Elbow with UV Protector	PP (Polypropylene) + PVC + POM
COLOUR:	Red (others upon request)	Transparent / Opaque with UV Protector
CONNECTIONS:	Loose Nut + Adapter / Coupling	Loose Nut + Adapter / Coupling / Welded
THREAD TYPES:	NPT / BSP (others upon request)	NPT / BSP (others upon request)
SAMPLE PORT:	3/8" Male NPS 1/2" Male BSPP	-
DESIGN PRESSURE:	6 bars / 87 PSI	6 bars / 87 PSI
DESIGN TEMPERATURE:	60°C to -5°C / 140°F to 23°F	60°C to -5°C / 140°F to 23°F
CERTIFICATIONS:	Drinking water according to industry standards - NSF 61 Certificate	Drinking water according to industry standards - NSF 61 Certificate
COMPATIBLE RO VESSEL:	Reverse Osmosis RO Systems. Ultrafiltration UF Systems.	







ELBOW

PLE-150LN-125GRV 	PLE-150LN-150M 	SAMPLE PORT 3/8" MALE NPT 1/2" MALE BSPP 	
PLE-100GRV-125GRV 	PLE-125GRV-125GRV 	PLE-150GRV-125GRV 	Consult the possibility of other connections.
PLE-100GRV-150M 	PLE-125GRV-150M 	PLE-150GRV-150M 	

ELBOW > HOSE

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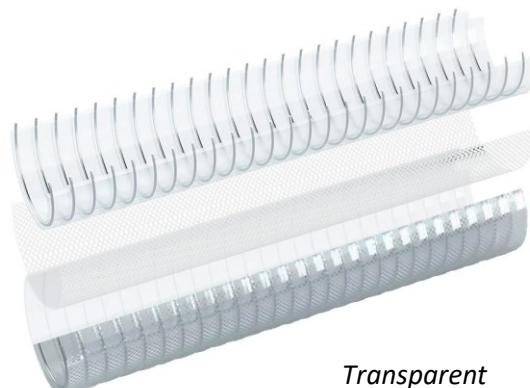
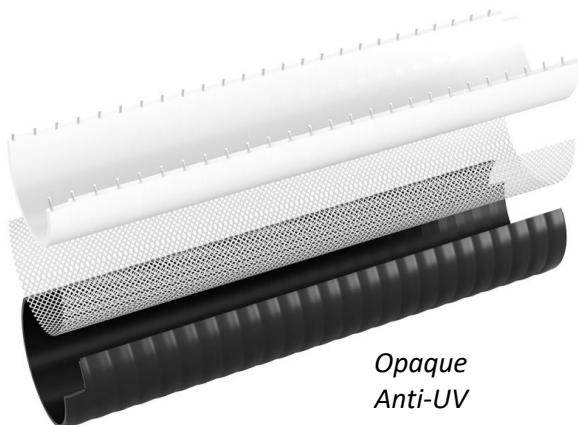
HOSE > COLLECTOR

		ON DEMAND	

ADAPTERS > LOOSE NUT & OTHERS

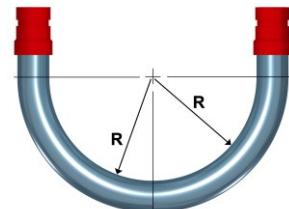
MALE THREAD 1.5" MALE 1" NPT/BSPP	MALE THREAD 1.5" MALE 1.25" NPT	MALE THREAD 1.5" MALE 1.5" NPT	MALE THREAD 1.5" FEMALE 1" NPT/BSPP	MALE THREAD 1.5" FEMALE 1.25" NPT	MALE THREAD 1.5" FEMALE 1.5" NPT
MALE 1" NPT COUPLING 1.25"	MALE THREAD 1.5" COUPLING 1.25"	MALE THREAD 1.5" WELD SOCKET 1.5"	Consult the possibility of other connections.		

HOSE CHARACTERISTICS



Two-layer, Phthalate-free, food approved PVC hose with double reinforcement, textile and galvanized steel spiral, for suction and delivery of solid and liquids as well as food stuffs.

- For food use according to EU and FDA regulations.
- Certified to NSF/ANSI/CAN 61
- Good resistance to pressure and vacuum in suction.
- The tube wall is smooth inside and outside.
- Good chemical resistance, associated with the PVC resistance table.
- The recommended temperature for use is between -5° C and 60° C.
- No phthalates and free of Cd/Pb/Ba.
- With UV protection (only opaque model)



TECHNICAL DATA								
Ø INT (mm/in)	Ø EXT (mm)	WEIGHT (g/m)	WORKING PRESSURE (Bar)	BURSTING PRESSURE (Bar)	BENDING RADIUS (mm)	VACUUM MH ₂ O	COLOUR	ANTI UV
25 / 1.00"	35 / 1.38"	670	15	60	90	9	Transparent	NO
25 / 1.00"	35 / 1.38"	680	12	48	80	9	Opaque	SI
32 / 1 1/4"	42 / 1.65"	800	12	48	110	9	Transparent	NO
32 / 1 1/4"	42 / 1.65"	800	12	48	100	9	Opaque	SI

- Available hose lengths: **50 cm / 100 cm / 150 cm or as per customer.**

NOTE: Hose length is from face to face.



4. OPTIONS & CONFIGURATIONS

MODEL CODIFICATION & OPTIONS

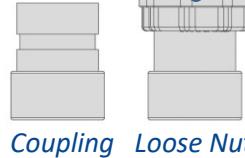
Elbow PLE	Ø Diameter	RO Connector	Hose Connector	Sample
	1.00 in	LN NPT + Adapter	M NPT (1.5")	1/2" BSP
	1.25 in	GRV	GRV (1.25")	3/8" NPT
	1.50 in			
	Example: PLE-150LN-150M-1/2			

Hose PLH	Elbow Connector	Ø Manifold	Ø Manifold Connector	Ø ID Hose	Length Hose	Color Hose
	LN NPT (1.5in)	1.00 in	LN NPT + Adapter	1" /25	50 cm	Opaque
	GRV (1.25in)	1.25 in	GRV	1.25" /32	100 cm	Transp.
		1.50 in	W		150 cm	

M: Male • LN: Loose Nut • GRV: Grooved Coupling • W: Welded • NPT: NPT Thread • BSP: BSP Thread • T: Transparent • O: Opaque

Adapters

- Male
- Female
- Welded



Coupling Loose Nut

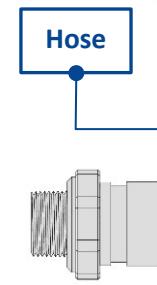
Manifold Connector Type

Adapter
Male / Female

RO Connector
Type

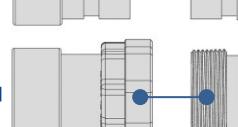


Loose Nut Coupling



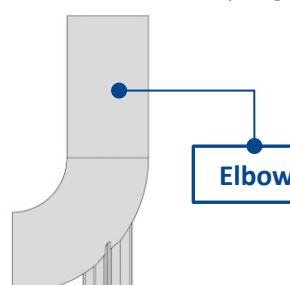
Hose
Adapter Elbow / Manifold
Coupling 1.25" / 1" Male NPT
Other diameters on demand

Coupling
1.25"

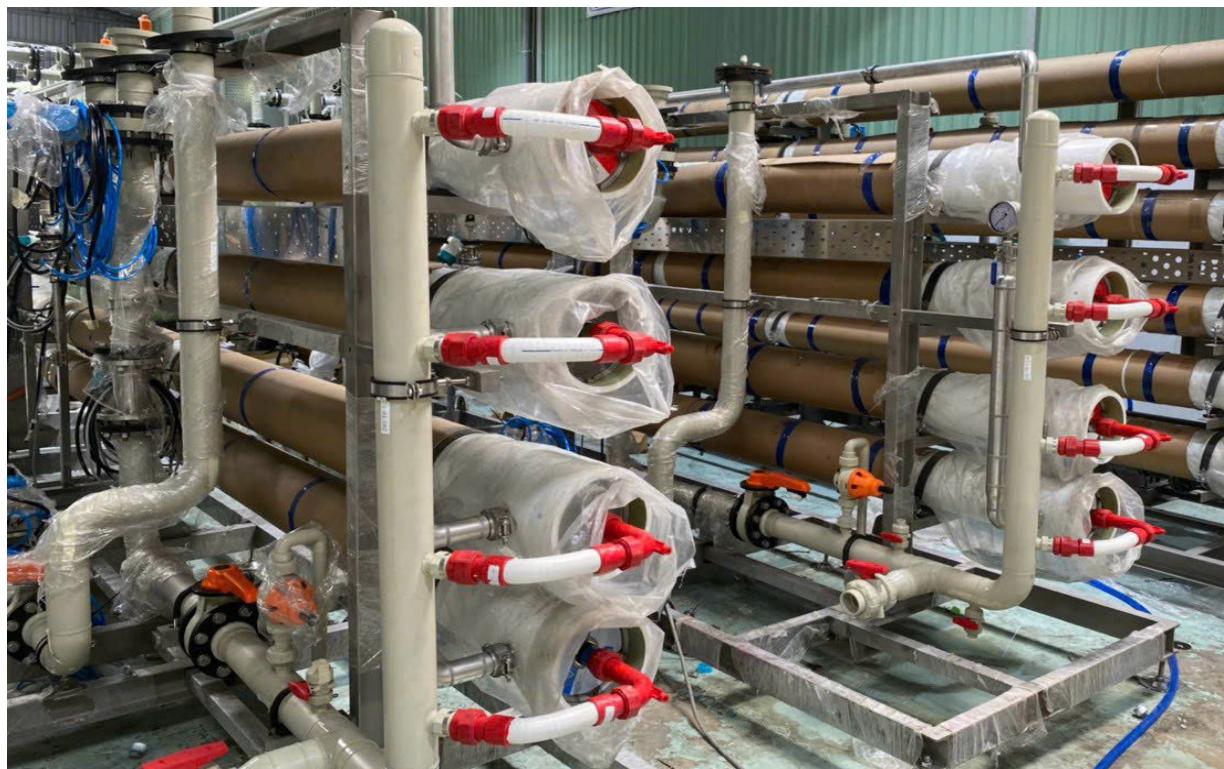


Loose Nut Male

Elbow



Port 3/8" NPS
Port 1/2" BSPP



7. LIMITED WARRANTY AND STANDARD TERMS AND CONDITIONS

The warranty described hereinafter covers products manufactured by Piedmont Pacific Corporation ("Supplier"), such as couplings, fittings and filter housing ("Products") and sold by Supplier, directly or through one of its authorized distributors, subject to the terms and conditions set forth hereunder.

1. WARRANTY

Subject to the terms and conditions set forth hereinafter, Supplier warrants to the original purchaser ("Purchaser") that the Products are free from manufacturing defects for a period of twelve (12) months after installation or eighteen (18) months after delivery ("Warranty Period") of the Products to Purchaser, whichever occurs first, only when used in normal conditions of operation in accordance with Supplier's instructions or recommendations and within the range of operating conditions specified by Supplier. This warranty does not extend to parts or components manufactured or incorporated by a third party and not forming part of the Products when Purchaser has acquired it from Supplier or one of its authorized distributors.

2. WARRANTY SERVICE

Supplier's obligation under this warranty is limited to replacement of the Products that prove to have a manufacturing defect within the Warranty Period. Prior to returning any Products, Purchaser shall obtain Supplier's authorization. Shipment expenses of the Products are at Purchaser's charge. Supplier shall determine, after examination of the Products, of whether returned Products are defective or not. Replacement Products shall be returned by freight. If Supplier determines that returned Products have no manufacturing defect or that the warranty is considered void in accordance with Section 3 hereto, Supplier shall notify Purchaser accordingly.

3. AVOIDANCE OF WARRANTY

This warranty shall be void and unenforceable with regard to any Products that have been damaged by accident, mishandling, abuse nor unprotected storage, or that have been repaired, modified, altered, disassembled or otherwise tampered with by anyone other than Supplier or its authorized representative, or if any replacement part or component not authorized by Supplier has been used, or if Products have not been installed, used, operated or maintained in accordance with the operating documentation and Supplier's instructions and recommendations and within the range of operating conditions specified by Supplier.

4. LIMITATIONS AND EXCLUSIONS

This warranty does not cover disposable items, such as fuses, lamps, probes, sensors, filters, cartridges or other disposable items that must be replaced periodically under the normal and foreseeable operating conditions of the Products warranted hereby. Provided Customer has respected the payment terms and schedule agreed upon, Purchaser will be able to exercise the rights granted under this warranty.

This warranty and the remedies described herein are exclusive and in lieu of any or all other warranty or remedies, expressed or implied, including without limitation any implied warranty of merchantability or fitness for a particular purpose. In no event shall the Supplier be liable for any consequential, incidental or other similar types of damages, or for damages for the loss of production or profits, or for injury to persons or property. No person has the authority to bind the Supplier to other than what is set forth above.