



PINECO®

Trattamento Acqua

GENERAL CATALOGUE

**water treatment
equipment**

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Pineco

Pineco is an Italian company well known for its high-quality standards in the field of water treatment equipment.

Our head-quarter and logistic centre are based in Verona, in the middle on the thermo-mechanical district. Our business structure includes Direction, Sales Dept, Development & Research Dept, Administration, Technical Dept, Logistic, and Production.

Pineco's competitive strategy based on innovation and reaserch, has allowed the achievement of great results and constant growth in the Italian market in the past 5 years.

Our great attention to quality guarantees product excellence as well as competitive prices. The long experience in water treatment field assures a complete and reliable technical support; our Technical Department is dedicated to supply constant support to our customers.



Filtration

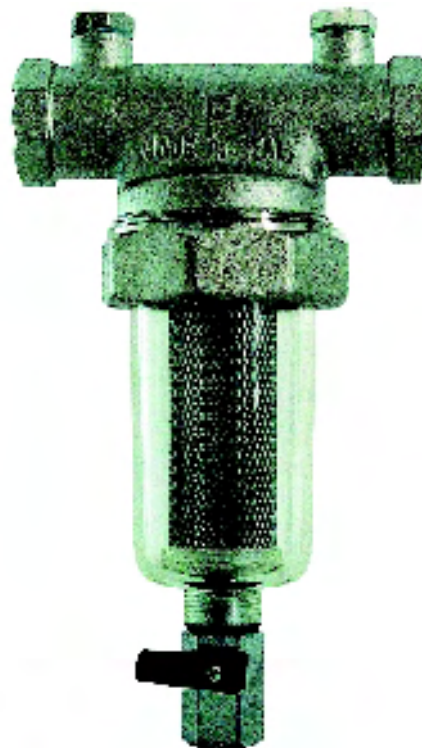
PIGI: self manual cleaning filter

Its special rhombus-shaped cartridge causes major turbulence during the flow. The turbulence removes any sediments dropped and clean the cartridge.

Components:

- Body, rings and drain valve made of printed nickel-plated brass OT 58;
 - Transparent bowl: made of Grillamid(r) for potable water, 10°C to 40°C resistant.
 - Cartridge: made of micro-porous steel AISI 316, double layer, filtration 100 micron rated.
- Certified for potable water treatments.

PIGI retains most of the sediments (sand, solid components etc.) from water. Recommended for any hydro and sanitary plant, PIGI prevents damages on water pressure reducer, valves and taps. The drain valve on the bottom allow the fast and easy cartridge clearing



PIGI 1"

Connectors diameter	1"	1 1/4"	Connectors diameter	1"	1 1/4"
Body height mm	156	156	Differential pressure bar	0.25	0.3
Total height mm	224	224	Max pressure bar	16	16
Total width mm	118	118	Max temperature °C	40	40
Flow rate m3/h	4.5	6.0	Filtering area cm	120	120
Micron rated	100	100	Weight kg	1.45	1.45

Filtration

PIGI: self manual cleaning filter

PIGI 2"					
Connectors diameter	1 1/2"	2"	Connectors diameter	1 1/2"	2"
Body height mm	205	205	Differential pressure bar	0.25	0.3
Total height mm	280	280	Max pressure bar	16	16
Total width mm	120	120	Max temperature °C	40	40
Flow rate m3/h	17	20	Filtering area cm	215	215
Micron rated	100	100	Weight kg	2.45	2.45

PIGI 3/4"					
Connectors diameter	1/2"	3/4"	Connectors diameter	1/2"	3/4"
Body height mm	132	132	Differential pressure bar	0.2	0.2
Total height mm	192	192	Max pressure bar	16	16
Total width mm	118	118	Max temperature °C	40	40
Flow rate m3/h	2.2	3.0	Filtering area cm	95	95
Micron rated	100	100	Weight kg	1.0	1.0

Filtration

Y filter

Manual self-cleaning Y sand filter. Body and cartridge made of stainless steel, screw joints, inflow and outflow manometers for cleaning check. Filtration 125 micron rated.

Pineco Y is available in different sizes: from 1 1/2" up to 6"

Technical features:

Maximum working pressure 10.0 bar

Fluid maximum temperature 60 °C (140 °F)

Salinity & acidity < 10.000 ppm TDS pH 3-9



PY Technical Sheet

MODEL	In/Out [in-mm]	Drain	Filtering Area [cm2]	Water Flow [m3/h]	Weight [kg]
PY1 1" ½	1" ½	1"	600	15	7
PY2	2"	1"	1.500	40	14
PY3	3"	1"	1.500	80	15
PY4	100 (flange)	1"	2.200	130	38
PY6	150 (flange)	1"	3.300	250	45

Filtration

Filter housing

PINECO housing are made of polypropylene and incorporate SAN bowls for the best resistance. PINECO Whole Houses are designed for potable water.

Thanks to the wide diameter range of its connectors, PINECO Whole Houses are the excellent option to any most expensive filter device



Head	Polypropylene and brass
Bowl	San
Ring nut	Polypropylene and brass
O Ring	Nbr 70 Sh
Standard pressure	8 Bar Max
Max pressure	35 Bar
Temperature resistance	0-50° C
Tested for	200,000 Cicles at 0-10 bar

Measures Connectors	Cartridge Height	Height	Lenght
1/2"	5"	176	98
3/4"	7"	226	122
3/4"	9 3/4"	294	122
1"	7"	231	122
1"	9 3/4"	299	122



Filtration

Cartridges

CAT: Vegetal carbon cartridge.

Flow interruption with saturated cartridge.
Available in 10" and 20".

	CAT 10"	CAT 20"
Flow rate lt/h	240	480



CRT: Wound cartridges 5 micron

Wound cartridge for plastic containers.

Filtration 5 rated.

so Filter Cartridge CRFA are available in different sizes;
5", 7" , 10", and 20".



	Flow rate lt/h			
	CRT 5"	CTR 7"	CRT 10"	CRT 20"
5 micron	300	700	800	1600

Filtration

Cartridges

CRFA: Wound cartridge 25 micron

Wound cartridge for plastic containers,
Filtration 25 micron rated.
Pineco Filter Cartridge CRFA are available in different
sizes; 5", 7", 10", and 20".

Flow rate lt/h				
	CRFA 5"	CRFA 7"	CRFA 10"	CRFA 20"
25 micron	400	800	1200	2200



CRRL: Washable net cartridges

Washable net cartridge for plastic containers.
Filtration 60 micron rated

Pineco filter cartridges CRRL are available in different sizes:
5", 7", 10" and 20".



Flow rate lt/h				
	CRRL 5"	CRRL 7"	CRRL 10"	CRRL 20"
60 micron	800	1200	1800	2600

Column Filters

Pineco Arsen

Arsenic removal column filter. Electronic valve, Ø 1" connectors.

Made with the finest material for potable water Pineco Arsen removes arsenic from water

Pineco Arsen is activated by an automated time-settable valve and works in 3 steps:

- backwash
- fast rinse
- activation

The filtering material is made of granular ferric hydroxide and pure granular quartzite.

The granular ferric hydroxide in removes arsenic, phosphate, selenium and any heavy metals from water.

The dimensions of the fiberglass cylinder depend on water properties as well as on the plant dimensions.



	Connectors diameter	Flow rate lt /h	Rated pressure bar	Lt Resins
ARSEN50	1"	300	2.0-7.0	50
ARSEN100	1"	500	2.0-7.0	100
ARSEN150	1"	900	2.0-7.0	150

Column Filters

Pineco Defer

Pineco iron removal devices remove any exceeding concentration of iron in water.

Iron concentration in potable water must not exceed 0,2 mg/l; a lower concentration might be required for technology purposes. The efficient control valve is automated and time settable. Our long lasting filtering material guarantees long term refills.

The dimensions of the fiberglass cylinder depends on water properties as well as plant dimensions.

PINECO DEFER is recommended for technologic purposes, residential and industrial plants.



	Connectors diameter	Flow rate lt /h	Rated pressure bar	Lt Resins
DEFER 50	1"	300-700	2.0-7.0	50
DEFER 75	1"	500-1100	2.0-7.0	75
DEFER 100	1"	600-1400	2.0-7.0	100
DEFER 140	1"	800-1800	2.0-7.0	140
DEFECL 50	1"	300-700	2.0-7.0	50
DEFECL 75	1"	500-1100	2.0-7.0	75
DEFECL 100	1"	600-1400	2.0-7.0	100
DEFECL 140	1"	800-1800	2.0-7.0	140

Column Filters

Pineco Carbon

With its high filtering and permeability capabilities Pineco Carbons reduces/removes chlorine, oils, and part of the hydrocarbons.

PINECO CARBON filters water from impurities and avoids unpleasant tastes and odors in water. Activated carbons filters are largely used in water treatments for technologic use, chlorine removal etc.

Easy to install, PINECO CARBON is controlled by its efficient and automated valve, the control valve is time settable. The sizes of the fiberglass cylinder depend on water properties as well as plant dimensions



	Connectors diameter	Flow rate lt /h	Rated pressure bar	Lt Resins
CARBON30	1"	800	2.0-7.0	30
CARBON75	1"	1300	2.0-7.0	75

Column Filters

Pineco Quarz

Multilayer-Quartz cleansing filter. Electronic valve, Ø 1" connectors Flow rate 600 lt/h



	Connectors diameter	Flow rate lt /h	Rated pressure bar	Lt Resins
QUARZ40	1"	600	2.0-7.0	40

Polyphosphate doser

Spillo DM

With its small dimensions and smart connectors, Spillo Polyphosphates Doser DM is designed to be installed under the boiler.

Spillo is supplied with female/female twist connectors for an easy installation. Spillo is designed to release 3-5 ppm polyphosphates in the water.

Polyphosphates avoid the formation of calcium bicarbonate and carbon dioxide; this protecting pipes and heated parts from lime scale deposit and avoiding carbon dioxide corrosion.

Through its movement, Spillo system -Pineco's patent -guarantees water transit and constant feed of polyphosphates;

The closure valve interrupts the water flow for an easy polyphosphates refill.

Spillo action:

- avoids the formation of calcium bicarbonate preventing incrustations
- creates a film inside the pipe that protects pipes from corrosion



Connectors Diameter	1/2 "
Connectors	F-F with nuts
Height	198 mm
Lenght	67 mm
Depth	67 mm
Dosing	3-5 ppm
Max Pressure	6 bar
Flow Rate	2 mc/h
Δ Pressure	0.2 bar
Water temperature	5 - 40 °C
Body	Ottone T58
Bowl	Grilamid
Soffietto	Silicone alimentare
Doser weight	850 gr
Polyphosphate weight	80 gr
Treated water	20 mc

Polyphosphate doser

Spillo LN

Spillo LN is designed for an easy installation in any situation. With adjustable flange and its special ring nut shape Spillo is suitable for any installation.

Spillo is designed to release 3-5 ppm of polyphosphates in the water.

Through its movement, Spillo system (Pineco's patent) guarantees the water transit and a constant feed of polyphosphates;

Polyphosphates avoid the formation of calcium bicarbonate and carbon dioxide; thus protect pipes and heating devices from lime scale and corrosion.

The closure valve interrupts the water flow easy polyphosphates addition.

Spillo action:

- avoid the formation of calcium bicarbonate preventing incrustations
- create a film inside the pipe that protects pipes from corrosion



Connectors Diameter	1/2 "
Connectors	F-F or M-M
Height	167 mm
Lenght	66 mm
Depth	95 mm
Dosing	3-5 ppm
Max Pressure	6 bar
Flow Rate	2 mc/h
Δ Pressure	0.2 bar
Water temperature	5 - 40 °C
Body	Ottone T58
Bowl	Grilamid
Soffietto	Silicone alimentare
Doser weight	850 gr
Polyphosphate weight	80 gr
Treated water	20 mc

Polyphosphate doser

Pinedos Maxi

Pinedos Maxi is a hydrodynamic polyphosphates doser designed for polyphosphates treatment of water plant, heater, cumulative boiler, big heat exchanger in flats, houses etc.

Polyphosphates avoid the formation of calcium bicarbonate and carbon dioxide; thus protect pipes and heating devices from lime scale and corrosion.

The quick 3/4" and 1" connectors facilitate the installation. The high quality standard of Spillo exclusive system - Pineco's patent - guarantees constant feed of polyphosphates. Great autonomy, up to 60 mc treated water.



Pinedos Maxi is recommended for:

- Heater and big boilers
- 3/4" and 1" joint water line
- Centralized treatment for flats, houses etc
- In water line following the water softener

Connectors	F-F
Connector diameter	3/4" and 1"
Height	210 mm
Lenght	90 mm
Depth	140 mm
Dosing	4-5 ppm
Max Pressure	12 bar
Flow Rate	5.8 mc/h

Polyphosphate doser

Pinedos Maxi

Δ Pressure	0.075 bar
Water temperature	5 - 40 °C
Body	Brass T58
Bowl	Grilamid
Soffietto	Silicon
Doser weight	2.70 Kg
Polyphosphate weight	200 gr
Treated water	60 mc ca

Metering Pumps

VSL and VSD

Water might need to be treated with products for specific problem such as extra hardness, weed, improper ph value, high bacteria presence.

Pineco's metering pumps and water meters release products in the water with high precision.

Pineco offers a wide range of products for any issue:

- **constant metering pumps:** these automated pumps release a constant quantity of product, no matter the flow
- **proportional metering pumps:** these automated pumps measure the flow and release a proportional quantity of product. The apposite PINECO CL meter placed on the pipe controls the flow and send impulses to activate the pump once the programmed flow quantity is reached.

PINECO pumps are made of molded glass filled and PPO housing for a proper protection against chemical and atmospheric agents. Electric insulation, electronic programmable microprocessor, electronic flow regulation. Automatic level control and injector integrated.

VSL

Constant metering pump with level control. The electronic connection automatically activates the meter pump that released the planned quantity of product.

Complete with:

- tank made of reinforced polyethylene (100 lt capacity)
- probe
- electronic flow regulation
- self venting device

Technical Features:

- flow rate 2l/h at 10 bar
- power supply 230 VAC (190 ÷ 265 VAC)
- stroke speed 0 ÷ 180 /min
- environment -10/+45°C
- sizes 97 x 50ø
- pre-assemble with brackets supports

VSD

Digital constant and proportional metering pumps driven by the external pulses such as Pineco CL water meter. Digital signal input.

Complete with:

- LCD display
- tank made of reinforced polyethylene (100 lt capacity)
- stroke speed adjustment and divider mode
- probe
- self venting device

Technical Features:

- constant mode/divide mode/multiply mode (1 to 1000)/ PPM mode
- flow rate 2l/h at 10 bar
- power supply 230 VAC (198 ÷ 242 VAC)
- stroke speed 0 ÷ 180 /min
- environment 5/+40°C
- sizes 97 x 50ø
- pre-assembled with brackets supports
- IP code: IP65
- set for passwords

Metering Pumps

·VSDP: Legionnaires' Disease Prevention

Metering pump designed to prevent Legionnaires' Diseases.

Digital proportional metering pumps to be driven by the external pulses of Pineco CL water meter.

Complete with stand-by and flow sensor input, alarm output and level control, recovery fault mode.

Made of molded glass filled and PPO housing for a proper protection against chemical and atmospheric agents. Electric insulation, electronic programmable microprocessor, electronic flow regulation. Automatic level control and injector integrated.

Complete with:

- LCD display
- tank made of reinforced polyethylene (100 lt capacity)
- probe
- self venting device

Technical Features:

- microprocessor technology
- manual stroke length
- analog and digital sign input
- constant mode/divide mode/multiply mode (1 to 1000)/ PPM mode
- flow rate 3l/h at 15 bar
- power supply 230 VAC (198 ÷ 242 VAC)
- stroke speed 0 ÷ 180 /min
- environment 5/+40°C
- sizes 97 x 50ø
- pre-assemble with brackets supports
- IP code: IP65
- set for passwords



Water Meters

Water Meters CL series

Turbine pulse emitter water meter.
Connected to the proportional meter pumps, PINECO CL water meters are the essential devices to release inhibitors, chlorine and descaler in the water.

Features:

PINECO CL water meters are the essential devices for **VSD and VSDP Pumps** for the proportional dosage of product such as polyphosphate, inhibitors, chlorine, etc.

PINECO CL meters allow an easy and accurate check for the most precise and reliable dosage.



Connectors	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Max Flow Rate	3	5	7	10	20	30
Standard flow rate m3/h	1,5	2,5	3,5	5	10	15
Max Pressure bar	16	16	16	16	16	16
Min flowrate lt	0,1	0,1	0,1	0,1	0,1	0,5
Max flow rate	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁶
Impulse frequency	4	4	4	4	4	4

Integrated systems

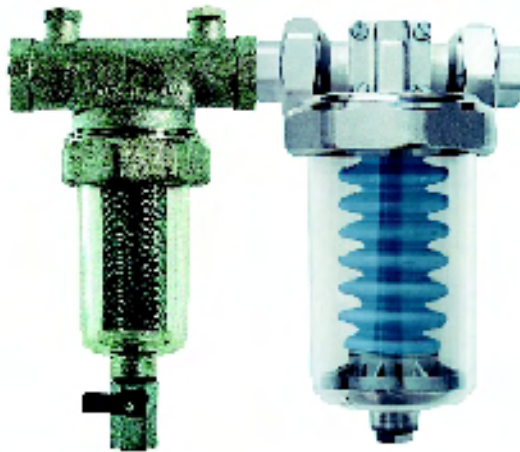
PG FOS 3/4" and PG FOS 1"

PG FOS 3/4" and 1" are integrated devices constituted by
filter (1) + polyphosphate doser (2)

It is formed by two main elements. PG FOS can be installed on new and old water plants.

1. Pigi 3/4" and 1" filter + Inox steel cartridge AISI 316 with double layer net structure, filtration 100 rated, high resistance Grilamid(r) bowl, purge valve for easy washing. PG FOS systems retain most of the impurities (sands, scales, etc) preserving taps, pressure reducer etc

2. Pinedos Maxi 3/4" and 1" hydrodynamic polyphosphates proportional doser for potable water treatment. The exclusive Spillo system (Pineco (r)) release descaler and anti-corrosive salts into water for immediate treatment.



	Connectors diameter	Flow rate m3 /h	Rated pressure bar	Pressure loss bar
PG FOS 3/4"	3/4"	3	16	0,2
PG FOS 1"	1"	4,5	16	0,2

Integrated systems

ACPG 1/2", ACPG 3/4" and ACPG 1"

ACPG 1/2" 3/4" and 1" are integrated descaler and anti-corrosive devices. It is formed by two main elements:

filter (1) + magnetic limescale remover (2)

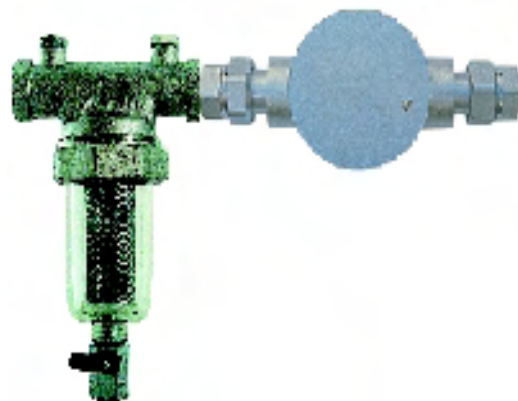
ACPG can be used for new and old water plants.

1. PIGI 1/2", 3/4" and 1" filter + Stainless steel cartridge AISI 316 with double layer net structure, average filtration 100 micron, high resistance Grilamid(r) bowl, purge valve for easy washing.

Features: PG FOS systems retain most of the impurities (sands, scales, etc) and preserving taps, pressure reducer etc

2. ANTICAL 20.000 magnetic lime scale remover offers an easy and economic solution to avoid lime scale. ANTICAL does not need any maintenance and does not release any chemical additive in the water line.

The metal body contains powerful magnets, the magnetic field effect on water prevent scale incrustations.



	Connectors diameter	Flow rate m3 /h	Rated pressure bar	Pressure loss bar
ACPG 1/2"	1/2"	3,2	16	0,2
ACPG 3/4"	3/4"	3,2	16	0,2
ACPG 1"	1"	4,5	16	0,2

Water softeners

Advantages of using water softeners

In nature water contains many salts, among them calcium and magnesium. The concentration of these dissolved salts determines hardness or lime scale.

Lime scale is the main cause of incrustations that damage pipes and domestic devices used for water (heaters, boilers, washing machines, taps etc).

Water softeners are the most effective solution to water hardness.

This treatment is recommended when the water hardness value exceeds 15°f and is necessary when it is higher than 25°f in heating plant. An easy DIY kit can show the level of hardness in water; hardness value can also be requested to the water supplier.



Water softeners represent the ultimate and reliable solution to lime scale.

Softeners' benefits:

- A better quality of potable water
- Energy and cost savings; softeners prevent lime scale incrustations that causes thermo insulation on heating devices
- Reduced consumption of soaps, shampoos, and conditioners. Softer laundry and more voluminous hairs
- Higher and longer lasting efficiency for heaters, boilers, washing machines, and dish washers as the softener protect them from scale incrustations.
- No more scale spots in showers, sinks, and water contaminated surfaces
- A better taps functioning.

Easy to install - dimensions.

Pineco softeners are easy to install and have small dimensions (from cm 30x67x50). They are the ideal solution that can be installed in basements, boiler rooms. Softener can also be installed next to the cold water intake.

Softener action:

Softener action can easily be explained; water is driven through a mass of special resins for potable water. Resins retain lime scale (ion exchange), avoiding exceeding water hardness.

The softener automatically purifies resins from the retained scale, resins are cleaned with salts (compacted salt for human consumption). This process is called resin regeneration.

Water Softeners

Pineco Softeners

PINECO softeners are designed and built with the best technologies and materials, for the most reliable and correct functioning. Our great knowledge and experience in this field guarantees great and long-lasting performances.

With our wide range of softeners for any domestic use, PINECO® softeners are the best answer to any need.

Which Softener?

First of all, it is essential to know which are the suitable softener's dimensions (softener dimensions are expressed in resin liter). Softener dimensions depend on water quantity and quality (hardness).

Once found the correct dimensions, the model can be chosen.

The selection of the model depends on the needs with regards to the resin regeneration function.

- electronic meter controlled: the resin regeneration is activated once the scheduled quantity (volume) of water has been softened. These models are also time settable.
- electronic based on time: the resin regeneration is regularly activated in time

Each model is available both in the integrated and double-structure version.

Users	Daily consumption of water	Size	Water hardness °f					
			Up to 25	26-30	31-35	36-40	41-45	46-50
up to 4	0.15 - 0.60	Resin Litre	8	8	15	15	15	25
from 5 to 8	0.75 - 1.20	Resin Litre	15	15	25	25	30	30
from 9 to 14	1.35 - 2.10	Resin Litre	25	30	40	40	50	50
from 15 to 21	2.25 - 3.10	Resin Litre	30	40	50	50	75	75
from 22 to 35	3.30 - 5.20	Resin Litre	50	75	75	100	140	140
from 36 to 52	5.40 - 7.80	Resin Litre	75	100	140	140	200	200

Water softeners

Pineco gamma

		PINECO CODE		INTEGRATED	DOUBLE STRUCTURE	
Liters of Resin	Type	Functioning			Cylinder + Tank	
		Meter controlled	Time	L x H x P	O x H	L x H x P
8	Integrated	AC8LOV	AC8LOT	30 x 67 x 50		
15	Double Structure	AC15LOV	AC15LOT	30 x 115 x 50		
15	Double Structure	DC15LOV	DC15LOT		118 x 110	31 x 90 x 31
25	Double Structure	DC25LOV	DC25LOT	30 x 115 x 50		
25	Integrated	AC25LOV	AC25LOT		23 x 110	31 x 90 x 31
30	Double Structure	DC30LOV	DC30LOT		26 x 110	31 x 90 x 31
40	Double Structure	DC40LOV	DC40LOT		26 x 132	46 x 68
50	Double Structure	DC50LOV	AC50LOT		26 x 158	48 x 68
75	Double Structure	DC75LOV	DC75LOT		26 x 158	50 x 80

Water softener

Technical Sheet

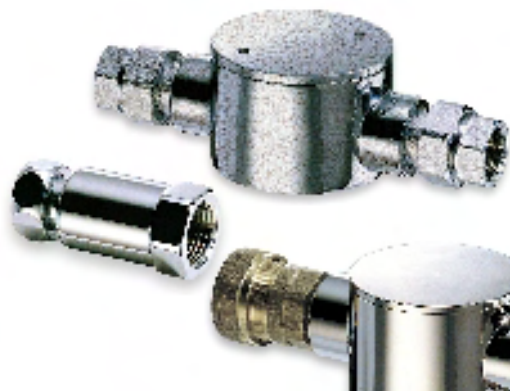
	Connectors diameter	Cycle capacity	Standard flow rate lt/h	Max flow rate lt/h	Pressure bar min/max
AC8LOV/AC8LOT	3/4"	48	90	1200	1.5/8.0
AC15LOV/AC15LOT	3/4"	90	1000	1360	1.5/8.0
DC15LOV/DC15LOT	3/4"	90	1000	1360	1.5/8.0
AC25LOV/AC25LOT	3/4"	150	1400	1800	1.5/8.0
DC25LOV/DC25LOT	3/4"	150	1400	1800	1.5/8.0
DC30LOV/DC30LOT	1"	180	1800	2400	1.5/8.0
DC40LOV/DC40LOT	1"	240	1900	2400	1.5/8.0
DC50LOV/DC50LOT	1"	300	2000	2400	1.5/8.0
DC75LOV/DC75LOT	1"	450	2400	3000	1.5/8.0
DC75LGT/DC75LGV	1 1/4"	450	3200	4000	1.5/8.0

	Regeneration duration	Salt Comsupton for regeneration	Tank Capacity lt	Tank Capacity Salt Tablets Kg
AC8LOV/AC8LOT	60'	1,4	35	25
AC15LOV/AC15LOT	125'	2,5	75	50
DC15LOV/DC15LOT	125'	2,5	85	65
AC25LOV/AC25LOT	105'	3,6	75	50
DC25LOV/DC25LOT	105'	3,6	85	65
DC30LOV/DC30LOT	100'	4,3	85	65
DC40LOV/DC40LOT	115'	5,9	100	75
DC50LOV/DC50LOT	135'	7,3	100	75
DC75LOV/DC75LOT	125'	11,3	140	110
DC75LGT/DC75LGV	125'	11,3	140	100

Magnetic lime-scale inhibitor

Pineco Antical

Magnetic lime scale removers transform calcium carbonate into round-shape molecules; this prevent the molecules combining into larger structures (lime scale) and avoid incrustations. PINECO offers a wide range of magnetic lime scale removers for domestic and industrial use.



Antical 10.000



Magnetic lime scale inhibitor for single application (boiler, washing machine etc)

	Code	Connector diameter	Flow rate lt/min	Lenght
Antical 10.000	AC101	1/2"	21	60 mm
Antical 10.000	ACDIMA	1/2"	21	60 mm
Antical 10.000	AC102	3/4"	39	70 mm
Antical 10.000	AC104	3/4"	39	150 mm
Antical 10.000	AC105	1"	50	160 mm

Magnetic lime-scale inhibitor

Antical 20.000

To be installed in the water line following the water meter. Designed for flats, houses and duplex. The use of water filters above Antical is strongly recommended. If installed next to water tanks, a minimum distance of 1 meter is required.



	Code	Connectors diameter	Flow rate lt/min	Length	Width
Antical 20.000	AC201	FF 1/2"	28 at 2 bar	190 mm	88 mm
Antical 20.000	AC202	FF 3/4"	48 at 2 bar	205 mm	88 mm
Antical 20.000	AC203	FF 1"	88 at 2 bar	220 mm	88 mm

Antical 30.000/40.000



To be installed in the water line following the water meter. Designed for condominiums and industrial plants. The use of water filters above Antical is strongly recommended. If installed next to water tanks, a minimum distance of 1 meter is required.

	Code	Connectors diameter	Flow rate lt/min	Length	Width
Antical 30.000 1 1/4"	AC301	FF 1/2"	28 at 2 bar	190 mm	88 mm
Antical 30.000 1 1/2"	AC302	FF 3/4"	48 at 2 bar	205 mm	88 mm
Antical 30.000 2"	AC303	FF 1"	88 at 2 bar	220 mm	88 mm
Antical 30.000 3"	AC401	FF 3"	35-38 at 3 bar	440 mm	140 mm

Potabilization

Easy steril

Potable water might contain unpleasant and contaminating elements that attenuate its consumption.

EASY STERIL is recommended to improve potable water quality; EASY STERIL reduces contaminating elements in domestic water for a better quality of potable water. EASY STERIL can easily be installed under the sink, for minimum encumbrance.

EASY STERIL operates in three steps.

-Step 1: extra-filtration 5 micron rated to remove any suspended part (melt blown filter)

-Step 2: activated carbons filter to remove contaminating chemical elements (chlorine and derivatives, oils etc), organic substances, pesticides, detergents, microbiologic contaminants (moulds, bacteria, spores, virus)

-Step 3: Bacteria abatement through UV rays



Components:

- plastic tank for potable water
- electronic ballast for UV control (upper cap)
- "melt blown" filtering system 5 micron rated (can 1)
- compounded active coal filter (can 2)
- electronic open/close and 12 volt lamp switch (complete isolation)
- fluid meter with water/ stop for empty cartridge warning.
- transformer 220V-12V

Characteristics

- volumetric flow 3-4 l/min
- size h. 40 cm L. 25 cm P. 13

Reverse osmosis

Easy steril

Direct reverse osmosis system.
Flow rate 60/70 lt/h.
Automated membranes clearing after use.
Salt control system.
Delivery tap and quick connectors included



Reverse Osmosis

IO300

Reverse osmosis is the process to separate foreign substances in water throughout semi permeable membranes. A semi permeable membrane is a membrane that allows pure water to pass through, retaining bacteria as well as organic and inorganic elements.

Water saltiness depends on the kind of salts and contamination.

In many industrial fields, reverse osmosis is integrated with a pressure pumps to support the elevated consumption. IO 300 is PINECO's device for reverse osmosis; for potable water treatment. PINECO IO 300 is formed by an additional tap/valve (to add to the kitchen faucet/tap/valve), an accumulation tank, and a bactericidal UV rays device.



Characteristics

- 12 lt tank
- 150/200 lt of treated water in a day for standard pressure and temperature water conditions
- UV ray lamp after stocking
- Pre-assembled system, ready to use system
- Special membrane
- Micrometrical filter (can 1)
- Sintered coal filter (can 2)
- Valve/tap
- Dimensions : L 28 cm, W 14 cm, H 42 cm + tank

Potabilization

UV rays

UV rays disinfect water penetrating bacteria and viruses to destroy their genetic material. This simple operation disinfects water from bacteria and viruses avoiding unpleasant smell or taste without the use of chemical substances .

Recommended for well water treatment, Pineco UV lamps can be used to disinfect any water contaminated with bacteria. UV lamp must be installed upstream the water line. Simple to install it requires little supervision, maintenance, and space. Improved safety, minimum service time, low operation and maintenance costs.



	Connectors	Flow rate lt/h	Lamp life hours	Size LxH	Pressure Bar	Watt
UV 500	½"	700	10,000	364x63	7	15
UV 1000	½"	1350	10,000	544x63	7	21
UV 2500	¾"	2700	10,000	924x63	7	40
UV 5000	1 ½"	5450	10,000	940x160	10	65

Chemicals

Ecosol

Pineco ECOSOL is an anti-freeze and corrosion inhibitor recommended for solar plants. Its bi-distilled glycerine formula ensures better performances than any glycole anti-freeze. Resistant up to -23 °C.



Packaging

10 Kg bottle code ECOSOL10

30 Kg tank code ECOSOL30

Chemical Physical Characteristics

Dilution : Use Pure

Color: Light Yellow

Smell: Neutral

Density: 1.25+/-0.02gr/cc

Boiling Point: 290 °C

N.b. The product is to be used pure, not to be diluted. No anti-corrosive product needed.

Chemicals

Limpia

Pineco LIMPIA is a clearing product for heating plants. Its special formula provides an excellent solution to prevent damages caused by incrustations and residual material inside plants.

Pineco LIMPIA clears the heating plant from incrustations and ferrous deposits.

It is recommended for Pineco LGN pumps.

Packaging

3 Kg bottle code LIMPIA3

5 Kg tank code LIMPIA5

30 Kg tank code LIMPIA30



Chemical Physical Characteristics

Dilution : 10-30%

Color: Orange

Smell: Sharp

PH: 7 +/- 0.2gr/cc

Chemicals

Ecoleghe

Ecoleghe removes encrustations on zinc-coated pipe, aluminum and light alloy parts. Its special formula allows to use Ecoleghe on zinc-coated materials

Application

- Air conditioning systems
- heating coils
- Potable water plants
- Zinc-coated pipe

Use

Dilute one part of Ecoleghe in 3-5 parts of water (cold or hot) and inject with the appropriate pump until bubbles stop. After the use, wash the use rinse out with 1% alkaline neutralizer (e.g. Pineco Neutrafos).



Packaging:

- 5 Kg tank code LEG5
- 30 Kg tank code LEG30

Chemical Physical Characteristics

Dilution: 20-30%

Color: None

Smell: None

pH solution at 10%: at 20°C: $1,2 \pm 0,2$

Density: a 20°C: 1,380

Solubility in 20°C water : Total

Chemicals

EcoNormale

Strong action encrustations remover for heating systems and heat exchangers . EcoNormale removes scale incrustation from heating systems and heat exchangers (heating coils, boilers, steel and copper heat exchangers) .Made with the excellent components and the finest inhibitors, ECONORMALE is a superlative product.

Applications

- heaters
- boilers
- heating coils
- heat exchangers

Use

Dilute 1 part of Econormale into 3-5 part of water and inject with the appropriate pump until bubbles stop. Once the product is exhausted the original color will change. We recommend to use Pineco Neutrafos neutralizer after the application

Packaging:

- 5 Kg tank
- 10 Kg tank
- 30 Kg tank

Chemical Physical Characteristics

Dilution: 10-30%

Color: Red

Odor Sharp

pH solution at 10%: 20°C: $1,2 \pm 0,1$

Density: at 20°C: 1,165

Solubility in 20°C water : Total



Chemicals

EcoSpeciale

Non-fumigating encrustations remover for heating systems and heat exchangers
PINECO EcoSpeciale removes scale incrustations and tarnish from heating systems and heat exchangers (heating coils, boilers, steel and copper heat exchangers).
Non fumigating PINECO EcoSpeciale contains corrosion inhibitors

Applications

- heaters
- boilers
- heating coils
- heat exchangers
- cooling towers

Use

Dilute 1 part of EcoSpeciale into 1-2 part of water and inject with the appropriate pump until bubbles stop. Once the product is exhausted the original color will change. We recommend to use Pineco Neutrafos neutralizer after the application.

Packaging:

- 1 Kg bottle
- 5 Kg tank
- 10 Kg tank
- 30 Kg tank

Chemical Physical Characteristics

Dilution: 30-50%

Color:: Moss

Smell: Characteristic

pH solution at 10%: at 20°C: $1,2 \pm 0,1$

Density: a 20°C: 1,088

Solubility in 20°C water : Total



Chemicals

Antialga Plus

Pineco Antialga Plus is an antialgae and micro-biocide product for heating plants and cooling towers. Pineco Antialghe prevent the formation of algae and bacterial flora inside heating plants and cooling towers. Its special formula contains quaternary ammonium salts that are usually used for bactericidal and anti legionella products. Recommended for under floor and traditional heating plants, solar panels, cooling towers and refrigerator groups

Use

Dilute 3 parts of Antialga into 100 parts of water for close plants and 5 parts of Antialga into 100 parts of water for any other case; inject directly into the plant by pump or expansion tank.



Packaging

- 1 Kg bottle
- 3 Kg tank
- 5 Kg tank

Chemical Physical Characteristics

Dilution : 1-1,5%

Color: None

Smell: None

pH solution at 10%: 8

Solubility in 20°C water : Total

Chemicals

Ecolisi

Protective incrustation inhibitor and anticorrosive for heating systems. By creating an inner film, Pineco Ecolisi protects iron, copper, and aluminum parts from incrustation and corrosion. Ecolisi is compatible with antifreeze products. Recommended for heating and air conditioning plants, heating pumps, solar panel (new and used)

Use

Dilute 1 part of into 100 parts of water and inject directly into the plant by pump or expansion tank.



Packaging

1 Kg bottle

Chemical Physical Characteristics

Dilution : 1%

Color: None

Smell: Particular

pH solution at 10%: at 20°C: 9 ± 1

Density: a 20°C: $1,005 \pm 0,005$

Chemicals

Ecofanghi

Recovering and mud seizing product for heating plants. Pineco Ecofanghi cleans and remove incrustations from heating and cooling plants. Effective against scale, mud, ferric oxide deposited in pipes and radiator; Pineco Ecofanghi brings to these substances to the surface. The complete removal of residuals is achieved by empty the plant. Recommended for heating and conditioning plants, solar panels.

Use:

Dilute 0.5-2 parts of Ecofanghi into 100 parts of water. Leave the product into the plant for 2-3 weeks, then empty the plant and rinse with clean water. Proceed to fulfill the plant with water and Ecolisi to prevent mud formations,

Packaging

1 Kg bottle

Chemical Physical Characteristics

Dilution : 0.5-2%

Color: None

Smell: Particular

pH solution at 20°: $13 \pm 0,5$

Density at 20°C: $1,045 \pm 0,005$



Chemicals

Neutrafos

Pineco Neutrafos is a neutralizer to be used after encrustations removal treatment. Neutrafos remove any residual of acids left in the plant after the treatment.

Application

- heaters
- boilers
- heating coils
- heat exchangers

After the encrustations removal treatment



Use

Dilute 2-3 parts of Neutrafos part in 100 parts of water and inject in the system, leave the solution in the plant for 15-30 minutes and rinse with water.

Packaging:

5 kg tank

Chemical Physical Characteristics

Dilution: 2-3%

Color: None

Smell: None

pH solution at 10%: at 20°C: $1,2 \pm 0,2$

Density: a 20°C: 1,380

Solubility in 20°C water : Total

Chemicals

Ecofiltri

Detergent for filters and air conditioning plants. Pineco Ecofiltri cleans removes grease form filters and air conditioning parts.

Use

Dilute 1 part of Ecofiltri into 10 parts of water. It can be used for manual cleaning, spray cleaning and immersion cleaning.

Packaging

1 Kg bottle
5 Kg tank
10 Kg tank



Chemical Physical Characteristics

Dilution : 10%
Color: Light blue
Smell: Particular
pH solution at 10%: at 20°C: $11,2 \pm 0,3$
Density: a 20°C: 1,125
Solubility in 20°C water : Total

Chemicals

Turafalle

Leak inhibitor for heating plants. Fixes small leaks on radiators and pipes. It is compatible with any fluid for close plants. Recommended for heating plants

Use

Dilute 3 parts of Turafalle into 100 parts of water into the heated plant. Shake before use.

Packaging

1 Kg bottle

5 Kg tank



Chemical Physical Characteristics

Dilution : 3%

Color: White

Smell: Particular

pH solution at 20°: 8,5

Density at 20°C: 1,03

Dry % >8,5

Chemicals

Unico

Pineco UNICO dissolves paper, rags, gauzes, hairs, soaps, products, fat substances that might obstruct pipes.

With its special formule Pineco Unico is a potent remedy that can be used also for PVC and lead pipes.

Use

Pour Unico into the obstructed pipe using the equipped funnel and gloves. Let Unico sit for few minutes then pour a small quantity of water. After few minutes, let the water flow copiously



Warning

Pineco Unico does not produce hazardous gas nor fume during its action; a slightly acid vapor might occur in particular conditions. Do not add water nor other substances in order to avoid improper reactions. Avoid contact with chromium-plated and zinc-coated parts.

Packaging

1,3 Kg bottle equipped with funnel and gloves

Chemical Physical Characteristics

Color: Light yellow

Smell: Sharp

pH solution at 10%: at 20°C: $1,2 \pm 0,2$

Chemicals

Dispro

Pineco Dispro removes incrustations and restores under-floor heating plants.

Use

Dilute 3kg of Dispro every 100 lt of water in the plant. Leave the product in the plant for 60 days, then empty the plant. Fill the floor plant with Pineco Antialga Plus.



Chemical Physical Characteristics

Dilution: 3%

Color: Light Yellow

Smell: Sharp

Ph: 7 ± 0.2

Density at 20 °C : 1.050 ± 0.005

Unblocking – Grease Removers - Spray

Econet

Ready to use grease remover for heaters and stoves

Econet is the perfect product to clean and remove grease from heater, burner heads, floor of thermal power station etc. Econet can also be used to clean rims and any greasy surface

Use

Spray evenly on the surface and let the product sit for few seconds then dry. If used on rims or aluminum surfaces rinse with abundant water to avoid ring stains.



Chemical Physical Characteristics

Color: Light orange

Smell: Particular

pH solution at 10%: at 20°C: $12,8 \pm 0,1$

Density: a 20°C: 1,020

Solubility in 20°C water : Total

Unblocking – Grease Removers - Spray

PinecoMenta

Water-soluble hand soap with lanolin

Pinecomenta is a cleansing gel with an elevated stability. Its special water-soluble abrasive formula removes any residual. Hydrocarbon solvents free, Pinecomenta is a balanced mixture surfactant and protective components designed for the best results.

Use

Use 3-4 gr. (or more for hostile dirty) of Pinecomenta and rub the hands. Rinse with water

Packaging

0,5 Kg jar

5 Kg jar (soap pump included)



Chemical Physical Characteristics

Aspect : Gel

Color: Pink

Smell: Jasmine

pH solution at 10%: at 20°C: $8,0 \pm 0,2$

Average Viscosity at 20° : Total

Solubility in 20°C water : Total

Average Viscosity at 20° : 13000 cps

Unblocking – Grease Removers - Spray

Clima San

Pineco CLIMASAN is a bactericide detergent for conditioning plant. It removes microbes and fungi that often cause unpleasant odors, leaving a refreshing fragrances.

Pineco CLIMASAN can be used to disinfect any conditioning plant. Pineco CLIMASAN is safe and totally atossic, non-corrosive and non-irritating (if used in standard conditions).



Ecofughe

Pineco Ecofughe is the fastest and safest way to find gas and air leak in underpressure pipes.

The formation of bubbles indicates a leak in the pipe. Pineco Ecofughe can discover even the smaller leaks and can be used for any kind of gas (gas, carbon dioxide, compressed air, cooling systems).



EcoZinc

Is the ideal product for finishing touches on zinc-coated welding. Forming a protective film, Pineco Ecozinc protects iron based materials from oxidation. Pineco Ecozinc resists to atmospheric agents and can be varnished. Fast-dry, no drain.



Sealers

New SaldaSystems

Bicomponent sealing past. New Saldasystems fixes any material: metal, ceramic, wood, hard plastic, combustible tank, and wet material (even underwater). New Saldasystems solidifies in 10-15' minutes. Fixes any leak, no disassembly need. Joints pipes with different diameters and metallic composition. Can be painted. Recommended for radiators, sinks, joints, tanks, camper, caravan, car, boats, silencer, motorcycle.

Use

Remove any grease from the surface, clean and make it rougher with sandpaper or wire brush. Knead for 1 minute the necessary quantity of paste until it becomes uniform; apply to the surface and press strongly.



Sealers

Turafalle

PTFE sealer for big joints and high temperature

- PTFE based sealer
- Useful 2" to 4" metallic screw joints
- Substitute for hemp and tape
- Seal for gas, air, water, GPL, hydrocarbons, oils and many chemical products
- Manipulation time: 15-30 minutes
- Functional hardening time 1-3 hrs
- Final hardening time 24 hrs
- -50°C + 150°C resistant
- Excellent performance on grease, oil, GPL, glycol, refrigerator fluid, water, acid, and basis leaks



Use

Remove any grease or oil from the screw, remove any chrome plating from the joints. Apply the product on the first part of the external thread (male) and screw the joint. Do not apply under -10° temperature

Packaging

300 gr. bottle

Pineco sealers contain methacrylic esters based resins that can irritate eye and skin, In case of eye or skin contact wash the area with soap and water, Rinse well with water. The use of gloves and block cream are recommended for prolonged use. Pineco is not responsible for inappropriate use of the product. Professional use only.

Sealers

Speciale 51

Medium-density sealer for water, gas and oxygen.

- Anaerobic sealer medium resistance
- Useful for 1/4" to 2" metallic screw joints
- Substitute for hemp and tape
- Tested for high-pressure gas and GPL up to 26 BAR
- Tested for gaseous oxygen up to 10 bar and 60°C
- Recommended for gas, air, water, GPL, hydrocarbons, oils and many chemical products
- Manipulation time: 15-30 minutes
- Functional hardening time 1-3 hrs
- Final hardening time 3-6 hrs



Use

Remove any grease or oil from the screw, remove any chrome plating from the joints. Apply the product on the first part of the external thread (male) and screw the joint. Do not apply under -10° temperature.

Packaging

100 gr. bottle
250 gr. bottle

Pineco sealers contain methacrylic esters based resins that can irritate eye and skin, In case of eye or skin contact wash the area with soap and water, Rinse well with water. The use of gloves and block cream are recommended for prolonged use. Pineco is not responsible for inappropriate use of the product. Professional use only.

Sealers

Special 208

Special Sealer for Maintenance

- Anaerobic mono-component product.

Methacrylic resin based

- Indicated for 1/4" to 1" 1/2" metallic screw joints

- Substitute for hemp and tape

- -50°C + 150°C resistant

- Manipulation time: 10-15 minutes

- Functional hardening time 1-2 hrs

- Final hardening time 12-24 hrs

- Does not shrink and remains flexible, allowing seal to be undone.

- Ideal for difficult fixing

- Vibrations resistant

- Great effect on cold water, oil, GPL, and methane's leaks.



Use

Remove any grease or oil from the screw, remove any chrome plating from the joints. Apply the product on the first part of the external thread (male) and screw the joint. Do not apply under -10° temperature

Packaging

50 gr. bottle

100 gr. bottle

250 gr. bottle

Pineco sealers contain methacrylic esters based resins that can irritate eye and skin, In case of eye or skin contact wash the area with soap and water, Rinse well with water. The use of gloves and block cream are recommended for prolonged use. Pineco is not responsible for inappropriate use of the product. Professional use only.

Sealer

Ecologic Seal

PTFE Medium-density sealer

- PTFE based sealer
- Useful up to 3/4" metallic screw joints
- Substitute for hemp and tape
- Seal for gas, air, water, GPL, hydrocarbons, oils and many chemical products
- Manipulation time: 20-30 minutes
- Functional hardening time 2-3 hrs
- Final hardening time 12-24 hrs
- -50°C + 150°C resistant
- Does not shrink and remains flexible, allowing seal to be undone
- resistant to vibrations, temperature variations, hot/cold water, gas, and glycol



Use

Remove any grease or oil from the screw, remove any chrome plating from the joints. Apply the product on the first part of the external thread (male) and screw the joint. Do not apply under -10° temperature

Packaging

100 gr. bottle
250 gr. bottle

Pineco sealers contain methacrylic esters based resins that can irritate eye and skin, In case of eye or skin contact wash the area with soap and water, Rinse well with water. The use of gloves and block cream are recommended for prolonged use. Pineco is not responsible for inappropriate use of the product. Professional use only.

Sealers

SpecialeInox 316

Sealer For Stainless Steel

- Anaerobic mono-component product
- methacrylic resin based
- Useful for 1/4" to 3" stainless steel screw joints
- Substitute for hemp and tape
- -50°C to + 150°C resistant
- Fast effect on steel: 10-15 minutes
- Functional hardening time 1 hour
- Final hardening time 24 hrs
- Does not shrink and remains flexible, allowing seal to be undone
- Great effect on hot/cold water, and glycol s leaks.



Use

Remove any grease or oil from the screw, remove any chrome plating from the joints. Apply the product on the first part of the external thread (male) and screw the joint. Do not apply under -10° temperature

Packaging

100 gr. bottle
250 gr. bottle

Pineco sealers contain methacrylic esters based resins that can irritate eye and skin, In case of eye or skin contact wash the area with soap and water, Rinse well with water. The use of gloves and block cream are recommended for prolonged use. Pineco is not responsible for inappropriate use of the product. Professional use only.

Sealers

Teflon Tapes

Teflon® Du Pont Tapes are the modern solution for ring joint gaskets. PTFE tapes are an interesting alternative to hemp : they assure the best results in quality, plant cleaning, and time saving.

Pineco offers exclusively Teflon® Du Pont tapes which represent a benchmark in the sector for the best quality standards.

- Composition 100% PTFE Teflon® Du Pont
- Resistant to any chemical product and solvent, with exception for high-temperature gaseous fluorine, chlorine trifluoride, and fused alkali metals.
- -200° C to +260° C resistant
- Odorless, tasteless, insoluble and low friction coefficient



Application

- Ring joints and plastic materials
- Available sizes application field: please refer to the following scheme.

Code	Colour	Thickness mm	Height mm	Lenght mt	Use	Note
RT 1212 00 76	blue	0.076	12	12	generic	
RT 1212 01 GAS	yellow	0.1	12	12	water and gas	
RT1212 01 RO	pink	0.1	12	12	vapour	High density
RT 1215 02 PR	blue	0.2	12	15	water and gas	professional
RT 1915 02 PR	yellow	0.2	19	15	water and gas	professional
RT 2515 02 PR	red	0.2	25	15	water and gas	professional

Our Technical Department provides accurate laboratory analysis
and fast solutions



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