

# PE-RT

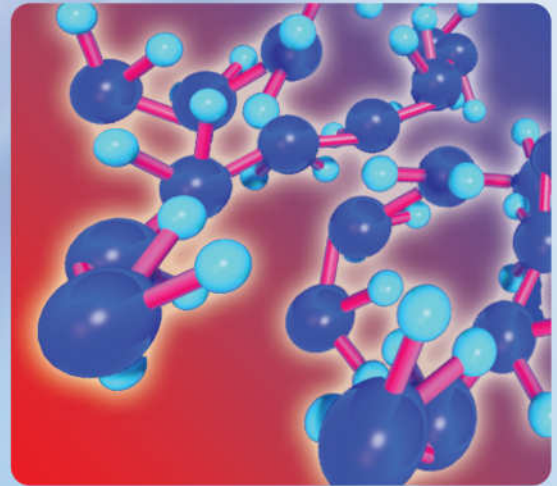
**WATERTEC**

Simply Better

Introducing the PE-RT pipe system, a pipe system that easy to use, light weight, easy to cut to required length, strong and durable. Bending and flexibility ensures easier handling and faster installation.

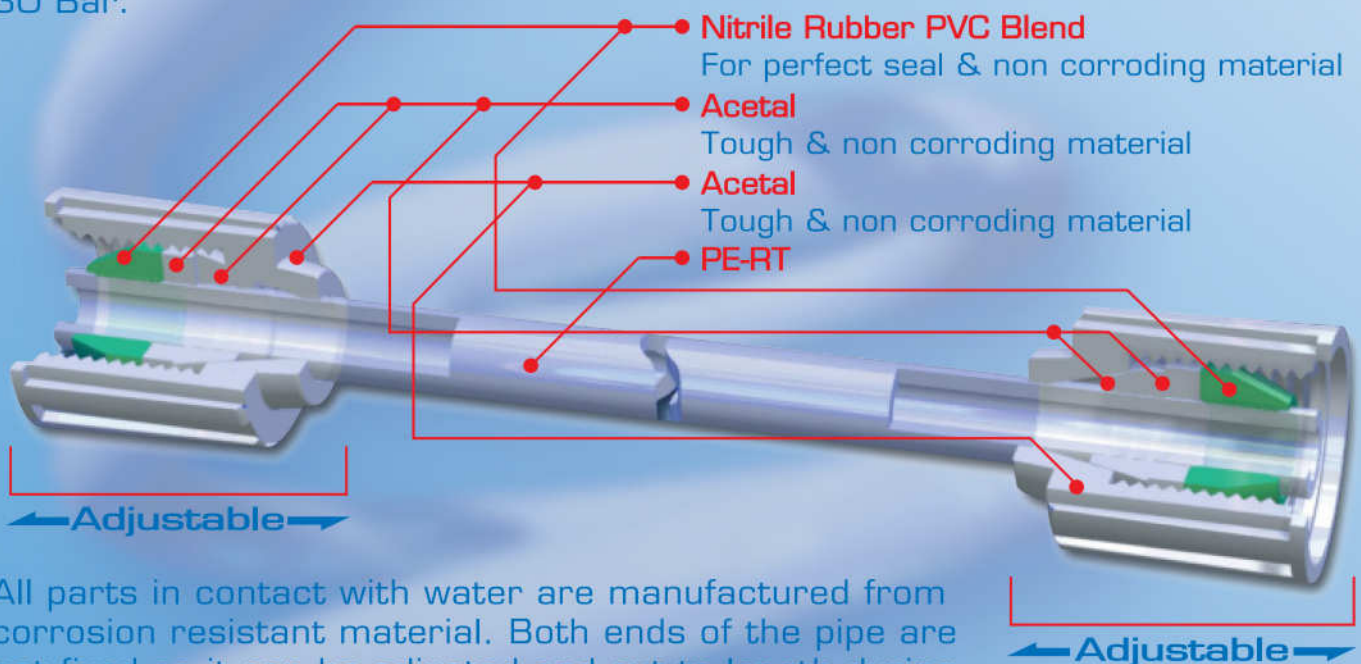


PE-RT pipe is manufactured from a special blend of Polyethylene, having a unique molecular structure with a controlled side chain distribution without being cross-linked. This provides a very strong polymer that gives high performance in terms of heat and pressures.



This material which made by LG SP980 with NSF approval, has very good resistance to chemicals and is unaffected by varying pH levels. It can withstand temperatures from  $-100^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$  and pressures up to 30 Bar.

PE stands for Polyethylene and RT for Raising Temperature resistance. The material's chemical abbreviation is PE-RT.



All parts in contact with water are manufactured from corrosion resistant material. Both ends of the pipe are not fixed so it can be adjusted and cut to length during installation. The lock nut grooves provide grip to hand tighten it without using any tool.

# PE-RT Hose

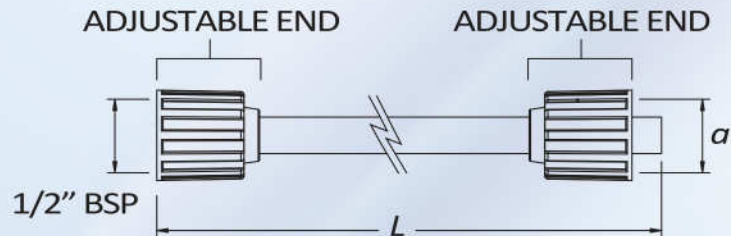


In some countries water is consumed directly from the tap. PE-RT hose are approved for portable water system.



Cutting the pipe is easy, just use a simple tool such as shear or pipe cutter.

## PE-RT Standard Dimension



No	Description	L	a
1	PERT Hose 12in	12"	1/2in BSP
2	PERT Hose 16in	16"	1/2in BSP
3	PERT Hose 20in	20"	1/2in BSP
4	PERT Hose 24in	24"	1/2in BSP
5	PERT Hose 100m	100m	1/2in BSP

## Specification

### Properties

**Physical**  
Melt Index  
Density  
Softning Point (Vicat)

### Test Method

ASTM D1238  
ASTM D1505  
ASTM D1525

### Condition

190°C/2.16kg  
23°C  
-

### Unit

g/10min  
g/cm<sup>3</sup>  
°C

### Value

0.6  
0.938  
124

### Mechanical

Tensile Strength at Yield  
Tensile Strength at Break  
Elongation at Break  
Izod Impact Strength  
Flexural Modulus  
Hardness (Shore D)  
E.S.C.R. (F50)

ASTM D638  
ASTM D638  
ASTM D638  
ASTM D256  
ASTM D790  
ASTM D2240  
ASTM D1693

50mm/min  
50mm/min  
50mm/min  
1/4", 23°C  
2.8mm/min  
Shore D  
50°C

kg/cm<sup>2</sup>  
kg/cm<sup>2</sup>  
%  
kg\*cm/cm  
kg/cm<sup>2</sup>  
-  
hr

190  
350  
700  
N.B  
5,600  
56  
>10,000

\*NOTE: Above given value should only be used as a guide and should not be considered as a guarantee.

## Pressure Test

### Item

Internal Pressure Test  
Internal Pressure Test  
Internal Pressure Test  
Thermal Stability by  
Hydrostatic Pressure Test

### Test Method

KS M3416  
KS M3416  
KS M3416  
KS M3416

### Condition

20°C, 10MPa  
95°C, 3.6MPa  
95°C, 3.5MPa  
110°C, 1.9MPa

### Test Time

1h  
165h  
1,000h  
8,760h

### Result

Pass  
Pass  
Pass  
Pass

The sizes in the drawings and actual products might have slight differences. We reserved the right to modify without prior notice.