

**NEW**

# R-flex™

insulated piping systems



Insulated supply and return piping for:

- Hydronic heating
- Hydronic snow melting
- District heating
- Commercial and process piping
- Geothermal
- Agricultural piping
- Biomass heat sources
- Wood-fired boilers
- Solar
- Cooling towers & chilled water systems



### A solid proven system.

R-flex is a pre-insulated, flexible, energy-saving PEX piping system with a durable, waterproof outer cover. It consists of a long-lasting PEX carrier pipe or pipes surrounded by thick insulation layers, all contained in a unique double-wall outer casing for maximum protection. The flexibility and light weight of R-flex makes it far easier to install than rigid piping systems.

### Superior protection.

Surrounding the inner PEX carrier pipe are several layers of cross-linked polyethylene foam with a closed cellular structure. This unique design provides R-flex with a low water vapor absorption, enhanced R-value insulation, and an excellent resistance to extreme temperatures.

Most importantly, R-flex is able to maintain these insulation properties over time. Other insulation types, such as polyurethane (PUR) foam, can crush when the pipe is bent, causing them to lose their insulative properties.

### Barrier PEX offers several advantages.

- high resistance to corrosion and pressure at high temperatures
- exceptionally high abrasion resistance
- superb chemical resistance
- proven product with excellent longevity at high temperatures

### Flexible, fast, and easy.

R-flex derives a unique benefit from the use of the polyethylene foam insulation and the double-wall outer shell; increased flexibility. This feature provides an advantage when running R-flex between buildings, around trench corners, or through wall penetrations.

### The art of simplicity.

Traditional carrier pipes, such as copper or black iron, require installers to cut and install transition fittings to work around an obstacle. With R-flex, installers no longer have to cut pipe and add connecting points. R-flex bends around the obstacle.

### Design it with RadiantWorks Professional®

RadiantWorks Professional allows designers to properly determine the amount of R-flex required for a project and an estimated amount of transitional heat loss.

Design it once. Design it right. Design with RadiantWorks Professional!



## R-flex Single & Dual Coils

R-flex is a flexible pre-insulated PEX with a corrugated, double-wall HDPE cover suitable for direct burial. R-flex is manufactured in accordance with DIN 16892/16893, with a DIN 4726 oxygen barrier.

R-flex ratings: 200 Deg F at 80 psi; 180 Deg F at 100 psi; 73 Deg F at 160 psi

**See page 94 for more sizing information.**

**To calculate the total length of R-flex needed, add 5% to the straight-line distance measured. This accounts for laying R-flex in a serpentine pattern. Also be sure to account for the length of all bends. See the R-flex Design and Installation Manual for more details.**



**R-flex Single 328' Coils** – Pre-insulated single oxygen barrier PEX with corrugated, double-wall HDPE cover.

| DESCRIPTION                                    | QTY. | MODEL#          | ORDER#   | WT.LBS. |
|--|------|-----------------|----------|---------|
| 40mm (~ 1.5") x 160mm OD Jacket, R-flex Single | 1    | RFS-40X160-328  | 81012929 | 517     |
| 50mm (~ 2") x 160mm OD Jacket, R-flex Single   | 1    | RFS-50X160-328  | 81012886 | 552     |
| 63mm (~ 2.5") x 160mm OD Jacket, R-flex Single | 1    | RFS-63X160-328  | 81012887 | 618     |
| 75mm (~ 3") x 200mm OD Jacket, R-flex Single   | 1    | RFS-75X200-328  | 81012889 | 922     |
| 90mm (~ 3.5") x 200mm OD Jacket, R-flex Single | 1    | RFS-90X200-328  | 81012890 | 1048    |
| 110mm (~ 4") x 200mm OD Jacket, R-flex Single  | 1    | RFS-110X200-328 | 81012891 | 1250    |

**R-flex Single** – Custom lengths

| DESCRIPTION                                    | QTY. | MODEL#        | ORDER#   | WT.LBS.  |
|--|------|---------------|----------|----------|
| 40mm (~ 1.5") x 160mm OD Jacket, R-flex Single |      | RFS-40X160-1  | 81012951 | 1.56/ft. |
| 50mm (~ 2") x 160mm OD Jacket, R-flex Single   |      | RFS-50X160-1  | 81012952 | 1.67/ft. |
| 63mm (~ 2.5") x 160mm OD Jacket, R-flex Single |      | RFS-63X160-1  | 81012953 | 1.87/ft. |
| 75mm (~ 3") x 200mm OD Jacket, R-flex Single   |      | RFS-75X200-1  | 81012954 | 2.8/ft.  |
| 90mm (~ 3.5") x 200mm OD Jacket, R-flex Single |      | RFS-90X200-1  | 81012955 | 3.18/ft. |
| 110mm (~ 4") x 200mm OD Jacket, R-flex Single  |      | RFS-110X200-1 | 81012956 | 3.79/ft. |

**Note:** A cut charge will be incurred with custom cut lengths.

**R-flex Dual 328' Coils** – Pre-insulated dual oxygen barrier PEX with corrugated, double-wall HDPE cover.

| DESCRIPTION                                   | QTY. | MODEL#         | ORDER#   | WT.LBS. |
|---|------|----------------|----------|---------|
| 1" x 125mm OD Jacket, R-flex Dual             | 1    | RFD-1X125-328  | 81012879 | 363     |
| 32mm (~ 1.25") x 125mm OD Jacket, R-flex Dual | 1    | RFD-32X125-328 | 81012880 | 407     |
| 40mm (~ 1.5") x 160mm OD Jacket, R-flex Dual  | 1    | RFD-40X160-328 | 81012882 | 585     |
| 50mm (~ 2") x 200mm OD Jacket, R-flex Dual    | 1    | RFD-50X200-328 | 81012884 | 894     |
| 63mm (~ 2.5") x 200mm OD Jacket, R-flex Dual  | 1    | RFD-63X200-328 | 81012885 | 1028    |

**R-flex Dual** – Custom lengths

| DESCRIPTION                                   | QTY. | MODEL#       | ORDER#   | WT.LBS.  |
|---|------|--------------|----------|----------|
| 1" x 125mm OD Jacket, R-flex Dual             |      | RFD-1X125-1  | 81012957 | 1.09/ft. |
| 32mm (~ 1.25") x 125mm OD Jacket, R-flex Dual |      | RFD-32X125-1 | 81012958 | 1.23/ft. |
| 40mm (~ 1.5") x 160mm OD Jacket, R-flex Dual  |      | RFD-40X160-1 | 81012959 | 1.77/ft. |
| 50mm (~ 2") x 200mm OD Jacket, R-flex Dual    |      | RFD-50X200-1 | 81012960 | 2.71/ft. |
| 63mm (~ 2.5") x 200mm OD Jacket, R-flex Dual  |      | RFD-63X200-1 | 81012961 | 3.12/ft. |

**Note:** A cut charge will be incurred with custom cut lengths.

## R-flex Dust Caps & Shrink Caps

**Single Pipe Dust Caps** – Non-waterproof - for interior terminations.



| DESCRIPTION                                    | QTY. | MODEL NO.      | ORDER NO. | WT.LBS. |
|--|------|----------------|-----------|---------|
| 40mmx1, 160mm OD, R-flex Single Pipe Dust Cap  | 1    | RFDC-40X1X160  | 81012967  | 0.5     |
| 50mmx1, 160mm OD, R-flex Single Pipe Dust Cap  | 1    | RFDC-50X1X160  | 81012934  | 0.5     |
| 63mmx1, 160mm OD, R-flex Single Pipe Dust Cap  | 1    | RFDC-63X1X160  | 81012935  | 0.5     |
| 75mmx1, 200mm OD, R-flex Single Pipe Dust Cap  | 1    | RFDC-75X1X200  | 81012936  | 0.5     |
| 90mmx1, 200mm OD, R-flex Single Pipe Dust Cap  | 1    | RFDC-90X1X200  | 81012937  | 0.5     |
| 110mmx1, 200mm OD, R-flex Single Pipe Dust Cap | 1    | RFDC-110X1X200 | 81012938  | 0.5     |

**Dual Pipe Dust Caps** – Non-waterproof - for interior terminations.



| DESCRIPTION                                   | QTY. | MODEL NO.     | ORDER NO. | WT.LBS. |
|---|------|---------------|-----------|---------|
| 1" x 2, 125mm OD, R-flex Dual Pipe Dust Cap   | 1    | RFDC-1X2X125  | 81012939  | 0.5     |
| 32mm x 2, 125mm OD, R-flex Dual Pipe Dust Cap | 1    | RFDC-32X2X125 | 81012940  | 0.5     |
| 40mm x 2, 160mm OD, R-flex Dual Pipe Dust Cap | 1    | RFDC-40X2X160 | 81012941  | 0.5     |
| 50mm x 2, 200mm OD, R-flex Dual Pipe Dust Cap | 1    | RFDC-50X2X200 | 81012942  | 0.5     |
| 63mm x 2, 200mm OD, R-flex Dual Pipe Dust Cap | 1    | RFDC-63X2X200 | 81012943  | 0.5     |

**Single Pipe Shrink Caps** – Waterproof - required for all direct burial connections in protective casings or inspection chamber.



| DESCRIPTION   | QTY. | MODEL NO.         | ORDER NO. | WT.LBS. |
|---|------|-------------------|-----------|---------|
| 40-50mm x 1, 160mm OD, R-flex Single Pipe Shrink Cap  | 1    | RFSC-40-50X1X160  | 81012664  | 0.5     |
| 63mm x 1, 160mm OD, R-flex Single Pipe Shrink Cap     | 1    | RFSC-63X1X160     | 81012540  | 0.5     |
| 75-110mm x 1, 200mm OD, R-flex Single Pipe Shrink Cap | 1    | RFSC-75-110X1X200 | 81012541  | 0.5     |

**Dual Pipe Shrink Caps** – Waterproof - required for all direct burial connections in protective casings or inspection chamber.



| DESCRIPTION                                      | QTY. | MODEL NO.     | ORDER NO. | WT.LBS. |
|--|------|---------------|-----------|---------|
| 1" x 2 x 125mm OD, R-flex Dual Pipe Shrink Cap   | 1    | RFSC-1X2X125  | 81012542  | 0.5     |
| 32mm x 2 x 125mm OD, R-flex Dual Pipe Shrink Cap | 1    | RFSC-32X2X125 | 81012543  | 0.5     |
| 40mm x 2 x 160mm OD, R-flex Dual Pipe Shrink Cap | 1    | RFSC-40X2X160 | 81012544  | 0.5     |
| 50mm x 2 x 200mm OD, R-flex Dual Pipe Shrink Cap | 1    | RFSC-50X2X200 | 81012545  | 0.5     |
| 63mm x 2 x 200mm OD, R-flex Dual Pipe Shrink Cap | 1    | RFSC-63X2X200 | 81012546  | 0.5     |

**Debris Plugs for R-flex PEX** – Use these to cap R-flex and keep jobsite debris out of the PEX tubing.



| DESCRIPTION            | QTY. | MODEL NO.  | ORDER NO. | WT.LBS. |
|------------------------|------|------------|-----------|---------|
| 1", R-flex Pex Plug    | 1    | RFPP-1"    | 81013021  | 0.5     |
| 32mm, R-flex Pex Plug  | 1    | RFPP-32mm  | 81013022  | 0.5     |
| 40mm, R-flex Pex Plug  | 1    | RFPP-40mm  | 81013023  | 0.5     |
| 50mm, R-flex Pex Plug  | 1    | RFPP-50mm  | 81013024  | 0.5     |
| 63mm, R-flex Pex Plug  | 1    | RFPP-63mm  | 81013025  | 0.5     |
| 75mm, R-flex Pex Plug  | 1    | RFPP-75mm  | 81013026  | 0.5     |
| 90mm, R-flex Pex Plug  | 1    | RFPP-90mm  | 81013027  | 0.5     |
| 110mm, R-flex Pex Plug | 1    | RFPP-110mm | 81013028  | 0.5     |

## R-flex Connections

**Compression Adapters** – PEX x MNPT, brass – for connecting R-flex to metal fittings. Included steel plate and bolt make it easy to slide collar over PEX.



| DESCRIPTION                               | QTY. | MODEL NO.      | ORDER NO. | WT.LBS. |
|---|------|----------------|-----------|---------|
| 1" x 1" MNPT, R-flex, Adapter, Comp       | 1    | RFA-1X100MPT   | 81012552  | 1.0     |
| 32mm x 1" MNPT, R-flex, Adapter, Comp     | 1    | RFA-32X100MPT  | 81012553  | 1.0     |
| 40mm x 1-1/4" MNPT, R-flex, Adapter, Comp | 1    | RFA-40X125MPT  | 81012554  | 1.5     |
| 50mm x 1-1/2" MNPT, R-flex, Adapter, Comp | 1    | RFA-50X150MPT  | 81012665  | 2.5     |
| 63mm x 2" MNPT, R-flex, Adapter, Comp     | 1    | RFA-63X200MPT  | 81012556  | 3.5     |
| 75mm x 2-1/2" MNPT, R-flex, Adapter, Comp | 1    | RFA-75X250MPT  | 81012589  | 4.0     |
| 90mm x 3" MNPT, R-flex, Adapter, Comp     | 1    | RFA-90X300MPT  | 81012558  | 7.5     |
| 110mm x 4" MNPT, R-flex, Adapter, Comp    | 1    | RFA-110X400MPT | 81012590  | 10.0    |

**Compression Couplings** – PEX x PEX, brass – for joining R-flex coils together.



| DESCRIPTION                   | QTY. | MODELNO.    | ORDERNO. | WT.LBS. |
|-------------------------------|------|-------------|----------|---------|
| 1", R-flex, Coupling, Comp    | 1    | RFC-1X100   | 81012837 | 2.0     |
| 32mm, R-flex, Coupling, Comp  | 1    | RFC-32X32   | 81012838 | 2.5     |
| 40mm, R-flex, Coupling, Comp  | 1    | RFC-40X40   | 81012839 | 3.5     |
| 50mm, R-flex, Coupling, Comp  | 1    | RFC-50X50   | 81012840 | 5.0     |
| 63mm, R-flex, Coupling, Comp  | 1    | RFC-63X63   | 81012841 | 8.0     |
| 75mm, R-flex, Coupling, Comp  | 1    | RFC-75X75   | 81012842 | 10.5    |
| 90mm, R-flex, Coupling, Comp  | 1    | RFC-90X90   | 81012843 | 17.0    |
| 110mm, R-flex, Coupling, Comp | 1    | RFC-110X110 | 81012844 | 24.0    |

**Compression Elbows** – PEX x PEX, brass



| DESCRIPTION                | QTY. | MODELNO.    | ORDERNO. | WT.LBS. |
|----------------------------|------|-------------|----------|---------|
| 1", R-flex, Elbow, Comp    | 1    | RFE-1X100   | 81012845 | 2.0     |
| 32mm, R-flex, Elbow, Comp  | 1    | RFE-32X32   | 81012846 | 2.5     |
| 40mm, R-flex, Elbow, Comp  | 1    | RFE-40X40   | 81012847 | 4.0     |
| 50mm, R-flex, Elbow, Comp  | 1    | RFE-50X50   | 81012848 | 5.5     |
| 63mm, R-flex, Elbow, Comp  | 1    | RFE-63X63   | 81012849 | 8.5     |
| 75mm, R-flex, Elbow, Comp  | 1    | RFE-75X75   | 81012850 | 11.0    |
| 90mm, R-flex, Elbow, Comp  | 1    | RFE-90X90   | 81012851 | 18.5    |
| 110mm, R-flex, Elbow, Comp | 1    | RFE-110X110 | 81012852 | 27.0    |

**Compression Tees, Equal** – PEX x PEX x PEX, brass



| DESCRIPTION              | QTY. | MODEL NO.       | ORDER NO. | WT.LBS. |
|--------------------------|------|-----------------|-----------|---------|
| 1", R-flex, Tee, Comp    | 1    | RFT-1X1X1       | 81012853  | 3.0     |
| 32mm, R-flex, Tee, Comp  | 1    | RFT-32X32X32    | 81012854  | 3.0     |
| 40mm, R-flex, Tee, Comp  | 1    | RFT-40X40X40    | 81012855  | 5.5     |
| 50mm, R-flex, Tee, Comp  | 1    | RFT-50X50X50    | 81012856  | 7.5     |
| 63mm, R-flex, Tee, Comp  | 1    | RFT-63X63X63    | 81012857  | 12.0    |
| 75mm, R-flex, Tee, Comp  | 1    | RFT-75X75X75    | 81012858  | 16.0    |
| 90mm, R-flex, Tee, Comp  | 1    | RFT-90X90X90    | 81012859  | 26.0    |
| 110mm, R-flex, Tee, Comp | 1    | RFT-110X110X110 | 81012860  | 37.0    |

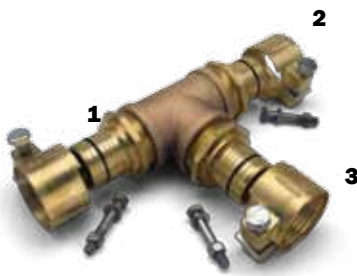
**Compression Tees, Unequal** – (1)Run x (2)Run x (3)Branch = PEX x PEX x PEX, brass

| DESCRIPTION                     | (1 - 2 - 3) | QTY. | MODEL NO.    | ORDER NO. | WT.LBS. |
|---------------------------------|-------------|------|--------------|-----------|---------|
| 40 x 40 x 32, R-flex, Tee, Comp | 1           | 1    | RFT-40X40X32 | 81012861  | 5.0     |
| 40 x 32 x 40, R-flex, Tee, Comp | 1           | 1    | RFT-40X32X40 | 81012862  | 5.0     |
| 40 x 32 x 32, R-flex, Tee, Comp | 1           | 1    | RFT-40X32X32 | 81012863  | 5.0     |

**SEE NEXT PAGE  
FOR IMAGE**

## R-flex Connections

**Compression Tees, Unequal (continued)** – (1)Run x (2)Run x (3)Branch = PEX x PEX x PEX, brass



| DESCRIPTION (1 - 2 - 3)           | QTY. | MODEL NO.      | ORDER NO. | WT.LBS. |
|-----------------------------------|------|----------------|-----------|---------|
| 50 x 50 x 40, R-flex, Tee, Comp   | 1    | RFT-50X50X40   | 81012864  | 6.5     |
| 50 x 40 x 50, R-flex, Tee, Comp   | 1    | RFT-50X40X50   | 81012865  | 6.5     |
| 50 x 40 x 40, R-flex, Tee, Comp   | 1    | RFT-50X40X40   | 81012866  | 6.5     |
| 63 x 63 x 50, R-flex, Tee, Comp   | 1    | RFT-63X63X50   | 81012867  | 11.0    |
| 63 x 50 x 63, R-flex, Tee, Comp   | 1    | RFT-63X50X63   | 81012868  | 11.0    |
| 63 x 50 x 50, R-flex, Tee, Comp   | 1    | RFT-63X50X50   | 81012869  | 11.0    |
| 75 x 75 x 63, R-flex, Tee, Comp   | 1    | RFT-75X75X63   | 81012870  | 16.0    |
| 75 x 63 x 75, R-flex, Tee, Comp   | 1    | RFT-75X63X75   | 81012871  | 16.0    |
| 75 x 63 x 63, R-flex, Tee, Comp   | 1    | RFT-75X63X63   | 81012872  | 16.0    |
| 90 x 90 x 75, R-flex, Tee, Comp   | 1    | RFT-90X90X75   | 81012873  | 23.0    |
| 90 x 75 x 90, R-flex, Tee, Comp   | 1    | RFT-90X75X90   | 81012874  | 23.0    |
| 90 x 75 x 75, R-flex, Tee, Comp   | 1    | RFT-90X75X75   | 81012875  | 23.0    |
| 110 x 110 x 90, R-flex, Tee, Comp | 1    | RFT-110X110X90 | 81012876  | 35.0    |
| 110 x 90 x 110, R-flex, Tee, Comp | 1    | RFT-110X90X110 | 81012877  | 35.0    |
| 110 x 90 x 90, R-flex, Tee, Comp  | 1    | RFT-110X90X90  | 81012878  | 35.0    |

### Threaded Brass Coupling (without R-flex Adapters)



| DESCRIPTION                  | QTY. | MODEL NO.        | ORDER NO. | WT.LBS. |
|------------------------------|------|------------------|-----------|---------|
| 1", Coupling, Brass, FPT     | 1    | RC-100FPTX100FPT | 81012902  | 1.0     |
| 1-1/4", Coupling, Brass, FPT | 1    | RC-125FPTX125FPT | 81012903  | 1.0     |
| 1-1/2", Coupling, Brass, FPT | 1    | RC-150FPTX150FPT | 81012904  | 1.0     |
| 2", Coupling, Brass, FPT     | 1    | RC-200FPTX200FPT | 81012905  | 1.5     |
| 2-1/2", Coupling, Brass, FPT | 1    | RC-250PTFX250FPT | 81012906  | 3.0     |
| 3", Coupling, Brass, FPT     | 1    | RC-300FPTX300FPT | 81012907  | 4.0     |
| 4", Coupling, Brass, FPT     | 1    | RC-400FPTX400FPT | 81012908  | 5.5     |

### Threaded Brass Elbows (without R-flex Adapters)



| DESCRIPTION               | QTY. | MODEL NO.        | ORDER NO. | WT.LBS. |
|---------------------------|------|------------------|-----------|---------|
| 1", Elbow, Brass, FPT     | 1    | RE-100PTFX100FPT | 81012909  | 1.0     |
| 1-1/4", Elbow, Brass, FPT | 1    | RE-125FPTX125FPT | 81012910  | 1.0     |
| 1-1/2", Elbow, Brass, FPT | 1    | RE-150FPTX150FPT | 81012911  | 1.5     |
| 2", Elbow, Brass, FPT     | 1    | RE-200FPT200FPT  | 81012912  | 2.0     |
| 2-1/2", Elbow, Brass, FPT | 1    | RE-250FPTX250FPT | 81012913  | 3.5     |
| 3", Elbow, Brass, FPT     | 1    | RE-300FPTX300FPT | 81012914  | 5.5     |
| 4", Elbow, Brass, FPT     | 1    | RE-400FPTX400FPT | 81012915  | 9.0     |

### Threaded Brass Tees (without R-flex Adapters)



| DESCRIPTION             | QTY. | MODEL NO.               | ORDER NO. | WT.LBS. |
|-------------------------|------|-------------------------|-----------|---------|
| 1", Tee, Brass, FPT     | 1    | RT-100FPTX100FPTX100FPT | 81012916  | 1.0     |
| 1-1/4", Tee, Brass, FPT | 1    | RT-125FPTX125FPTX125FPT | 81012917  | 1.5     |
| 1-1/2", Tee, Brass, FPT | 1    | RT-150FPTX150FPTX150FPT | 81012918  | 2.0     |
| 2", Tee, Brass, FPT     | 1    | RT-200FPTX200FPTX200FPT | 81012919  | 3.0     |
| 2-1/2", Tee, Brass, FPT | 1    | RT-250FPTX250FPTX250FPT | 81012920  | 5.0     |
| 3", Tee, Brass, FPT     | 1    | RT-300FPTX300FPTX300FPT | 81012921  | 7.5     |
| 4", Tee, Brass, FPT     | 1    | RT-400FPTX400FPTX400FPT | 81012922  | 10.5    |

## R-flex Bushings & Casings

**Threaded Brass Bushings (without R-flex Adapters)** – Use with Threaded Brass Tees to connect different R-flex run sizes.



| DESCRIPTION                            | QTY. | MODEL NO.        | ORDER NO. | WT.LBS. |
|--|------|------------------|-----------|---------|
| 1-1/4"MPT x 1" FPT, Bushing, Brass     | 1    | RB-125MPTX100FPT | 81012923  | 0.5     |
| 1-1/2"MPT x 1-1/4" FPT, Bushing, Brass | 1    | RB-150MPTX125FPT | 81012924  | 0.5     |
| 1-1/2"MPT x 1" FPT, Bushing, Brass     | 1    | RB-150MPTX100FPT | 81012962  | 0.5     |
| 2"MPT x 1-1/2" FPT, Bushing, Brass     | 1    | RB-200MPTX150FPT | 81012925  | 1.0     |
| 2"MPT x 1" FPT, Bushing, Brass         | 1    | RB-200MPTX100FPT | 81012963  | 1.0     |
| 2-1/2"MPT x 2" FPT, Bushing, Brass     | 1    | RB-250MPTX200FPT | 81012926  | 1.0     |
| 2-1/2"MPT x 1-1/2" FPT, Bushing, Brass | 1    | RB-250MPTX150FPT | 81012964  | 1.5     |
| 3"MPT x 2-1/2" FPT, Bushing, Brass     | 1    | RB-300MPTX250FPT | 81012927  | 2.0     |
| 3"MPT x 2" FPT, Bushing, Brass         | 1    | RB-300MPTX200FPT | 81012965  | 2.0     |
| 4"MPT x 3" FPT, Bushing, Brass         | 1    | RB-400MPTX300FPT | 81012928  | 3.5     |
| 4"MPT x 2-1/2" FPT, Bushing, Brass     | 1    | RB-400MPTX250FPT | 81012966  | 3.0     |

**Protective Sleeve Casing for R-flex** – For waterproof sealing and insulating of straight connections. Includes 2 HDPE halves, insulation, sealer kit, and bolts. Must add shrink caps to seal ends of R-flex.



| DESCRIPTION                                     | QTY. | MODEL NO.   | ORDER NO. | WT.LBS. |
|---|------|-------------|-----------|---------|
| 125-200mm pipes, R-flex Casing, Straight Sleeve | 1    | RFCS-125200 | 81012549  | 13.0    |

**Protective Y Casing for R-flex** – For waterproof sealing and insulating of dual to single connections. Includes 2 HDPE halves, insulation, sealer kit, and bolts. Must add shrink caps to seal ends of R-flex.



| DESCRIPTION                       | QTY. | MODEL NO.   | ORDER NO. | WT.LBS. |
|-----------------------------------|------|-------------|-----------|---------|
| 125-200mm pipes, R-flex Casing, Y | 1    | RFKY-125200 | 81012547  | 19.0    |

**Protective Elbow Casing for R-flex** – For waterproof sealing and insulating of elbow connections. Includes 2 HDPE halves, insulation, sealer kit, and bolts. Must add shrink caps to seal ends of R-flex.



| DESCRIPTION                           | QTY. | MODEL NO.   | ORDER NO. | WT.LBS. |
|---------------------------------------|------|-------------|-----------|---------|
| 125-200mm pipes, R-flex Casing, Elbow | 1    | RFCE-125200 | 81012548  | 21.0    |

**Protective Tee Casing for R-flex** – For waterproof sealing and insulating of tee connections. Includes 2 HDPE halves, insulation, sealer kit, and bolts. Must add shrink caps to seal ends of R-flex.



| DESCRIPTION                         | QTY. | MODEL NO.   | ORDER NO. | WT.LBS. |
|-------------------------------------|------|-------------|-----------|---------|
| 125-200mm pipes, R-flex Casing, Tee | 1    | RFCT-125200 | 81012550  | 26.0    |

## R-flex Accessories

**Protective Inspection Chamber for R-flex** – Allows access to connections and/or valves. Includes HDPE chamber with 6 connection points, inspection lid, sealer kit and screws. Must add shrink caps to seal ends of R-flex, and jacket repair sleeves for sealing the R-flex to the chamber.



| DESCRIPTION                             | QTY. | MODEL NO.   | ORDER NO. | WT.LBS. |
|---|------|-------------|-----------|---------|
| 125-200mm pipes, R-flex Inspect Chamber | 1    | RFIC-125200 | 81012551  | 75.0    |

**R-flex Jacket Repair Tape** – To repair accidental damage to R-flex outer cover. Wrap the tape over damaged area and heat with heat gun.



| DESCRIPTION                                | QTY. | MODEL NO.   | ORDER NO. | WT.LBS. |
|--|------|-------------|-----------|---------|
| 3/4" x 33', R-flex Heat Shrink Repair Tape | 1    | RFRT-075X33 | 81012591  | 7.0     |

**R-flex Jacket Repair Sleeve** – To repair accidental damage to R-flex outer cover. Slide the sleeve over damaged area and heat with heat gun.



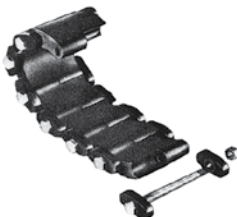
| DESCRIPTION                        | QTY. | MODEL NO. | ORDER NO. | WT.LBS. |
|------------------------------------|------|-----------|-----------|---------|
| 125mm, R-flex Shrink Repair Sleeve | 1    | RFRS-125  | 81012592  | 1.0     |
| 160mm, R-flex Shrink Repair Sleeve | 1    | RFRS-160  | 81012593  | 1.0     |
| 200mm, R-flex Shrink Repair Sleeve | 1    | RFRS-200  | 81012594  | 1.0     |

**R-flex Caution Tape** – Place in backfill along entire length of R-flex.



| DESCRIPTION                  | QTY. | MODEL NO. | ORDER NO. | WT.LBS. |
|------------------------------|------|-----------|-----------|---------|
| 100 ft., R-flex Caution Tape | 1    | RFCT      | 81012947  | 1.0     |

**R-flex Link Belt** – Used when boring a hole in an existing wall. Seals wall penetrations between R-flex outer cover and wall.



| DESCRIPTION                          | QTY. | MODEL NO. | ORDER NO. | WT.LBS. |
|--------------------------------------|------|-----------|-----------|---------|
| 125mm outer casing, R-flex Link Belt | 1    | RFLB-125  | 81012948  | 1.5     |
| 160mm outer casing, R-flex Link Belt | 1    | RFLB-160  | 81012949  | 5.0     |
| 200mm outer casing, R-flex Link Belt | 1    | RFLB-200  | 81012950  | 6.0     |

**R-flex Wall Sleeve & Link Belt Kit** – Used when wall is to be poured in place. Seals wall penetrations between R-flex outer cover and wall.



| DESCRIPTION   | QTY. | MODEL NO.   | ORDER NO. | WT.LBS. |
|---|------|-------------|-----------|---------|
| 125mm outer casing, R-flex Wall Sleeve and Belt Kit | 1    | RFLBKit-125 | 81012931  | 12.0    |
| 160mm outer casing, R-flex Wall Sleeve and Belt Kit | 1    | RFLBKit-160 | 81012932  | 10.0    |
| 200mm outer casing, R-flex Wall Sleeve and Belt Kit | 1    | RFLBKit-200 | 81012933  | 13.0    |

## Determining size and amount of R-flex to order

R-flex U.S. equivalents

|                        | Metric        | 25 mm    | 32 mm    | 40 mm    | 50 mm    | 63 mm    | 75 mm    | 90 mm    | 110 mm   |
|------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                        | US Equivalent | 1"       | 1-1/4"   | 1-1/2"   | 2"       | 2-1/2"   | 3"       | 3-1/2"   | 4"       |
| Single                 | 160 mm        |          |          | 81012929 | 81012886 | 81012887 |          |          |          |
|                        | 200 mm        |          |          |          |          |          | 81012889 | 81012890 | 81012891 |
| Dual                   | 125 mm        | 81012879 | 81012880 |          |          |          |          |          |          |
|                        | 160 mm        |          |          | 81012882 |          |          |          |          |          |
|                        | 200 mm        |          |          |          | 81012884 | 81012885 |          |          |          |
| Approx. Max. Flow, gpm |               | 12       | 17       | 25       | 40       | 70       | 90       | 140      | 200      |

**Important:** Add approximately 5% to the straight line distance to allow for a serpentine pattern of R-Flex.

## R-flex Specifications Chart

| Specifications (conforms to DIN 16892, SDR-11) |          |                 |                      |                      |                   |                     |                     |                     |                     |                       |                          |                          |                         |                    |
|--|----------|-----------------|----------------------|----------------------|-------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|--------------------------|--------------------------|-------------------------|--------------------|
|  | Order #  | Description     | PEX ID               | PEX OD               | Jacket OD         | Bend Radius         | Coil Length         | Coil Diameter       | Coil Height         | Coil Weight           | Fluid Cap. /100m (328ft) | Insulation Thickness     | Casing R-Value          |                    |
| Single   | 81012929 | 160/40 R-flex   | 32.6 mm<br>(1.28")   | 40 mm<br>(1.57")     | 160 mm<br>(6.30") | 350 mm<br>(13.8")   | 100 m**<br>(328 ft) | 2300 mm<br>(90.6")  | 850 mm<br>(33.50")  | 232 kg<br>(512 lbs)   | 83.00 L<br>(21.93 gal)   | 47.5 mm<br>(1.88")       | 6.79                    |                    |
|  | 81012886 | 160/50 R-flex   | 40.8 mm<br>(1.61")   | 50.0 mm<br>(1.97")   |                   | 450 mm<br>(17.80")  |                     |                     |                     | 248 kg<br>(547 lbs)   | 131.31 L<br>(34.69 gal)  | 42.5 mm<br>(1.68")       | 6.07                    |                    |
|  | 81012887 | 160/63 R-flex   | 51.6 mm<br>(2.03")   | 63.0 mm<br>(2.48")   |                   | 550 mm<br>(21.7")   |                     |                     |                     | 278 kg<br>(613 lbs)   | 208.76 L<br>(55.15 gal)  | 37.0 mm<br>(1.46")       | 5.27                    |                    |
|  | 81012889 | 200/75 R-flex   | 61.4 mm<br>(2.42")   | 75.0 mm<br>(2.95")   | 200 mm<br>(7.90") | 800 mm<br>(31.5")   |                     |                     | 1400 mm<br>(55.20") | 416 kg<br>(917 lbs)   | 296.67 L<br>(78.37 gal)  | 52.0 mm<br>(2.05")       | 7.4                     |                    |
|  | 81012890 | 200/90 R-flex   | 73.6 mm<br>(2.90")   | 90.0 mm<br>(3.54")   |                   | 1100 mm<br>(43.4")  |                     |                     |                     | 473 kg<br>(1,043 lbs) | 426.02 L<br>(112.55 gal) | 44.0 mm<br>(1.74")       | 6.28                    |                    |
|  | 81012891 | 200/110 R-flex  | 90.0 mm<br>(3.55")   | 110.0 mm<br>(4.33")  |                   | 1200 mm<br>(47.3")  |                     |                     |                     | 564 kg<br>(1,244 lbs) | 638.41 L<br>(168.65 gal) | 34.0 mm<br>(1.33")       | 4.84                    |                    |
| Dual   | 81012879 | 125/2x1 R-flex* | 0.863"<br>(21.92 mm) | 1.125"<br>(28.58 mm) | 4.90"<br>(125 mm) | 11.80"<br>(300 mm)  | 100 m**<br>(328 ft) | 2300 mm<br>(90.60") | 82.70"<br>(2100 m)  | 27.60"<br>(700 mm)    | 358 lbs<br>(162 kg)      | 19.94 gal<br>(75.46 L)   | 1.11"<br>(28.0 mm)      | 4.01               |
|  | 81012880 | 125/2x32 R-flex | 26.2 mm<br>(1.03")   | 32.0 mm<br>(1.26")   | 125 mm<br>(4.90") | 300 mm<br>(11.80")  |                     |                     |                     | 2100 mm<br>(82.70")   | 700 mm<br>(27.60")       | 182 kg<br>(402 lbs)      | 107.48 L<br>(28.40 gal) | 22.3 mm<br>(0.88") |
|  | 81012882 | 160/2x40 R-flex | 32.6 mm<br>(1.28")   | 40.0 mm<br>(1.57")   | 160 mm<br>(6.30") | 600 mm<br>(23.70")  |                     |                     | 850 mm<br>(33.50")  | 263 kg<br>(580 lbs)   | 166.00 L<br>(43.86 gal)  | 34.0 mm<br>(1.34")       | 4.84                    |                    |
|  | 81012884 | 200/2x50 R-flex | 40.8 mm<br>(1.61")   | 50.0 mm<br>(1.97")   | 200 mm<br>(7.90") | 800 mm<br>(31.50")  |                     |                     |                     | 1400 mm<br>(55.20")   | 403 kg<br>(889 lbs)      | 262.62 L<br>(69.38 gal)  | 46.0 mm<br>(1.81")      | 6.57               |
|  | 81012885 | 200/2x63 R-flex | 51.6 mm<br>(2.03")   | 63.0 mm<br>(2.48")   |                   | 1200 mm<br>(47.30") |                     |                     |                     |                       | 464 kg<br>(1,023 lbs)    | 417.52 L<br>(110.30 gal) | 33.0 mm<br>(1.30")      | 4.69               |

\* Pex pipe is certified to ASTM F876, SDR-9 dimensions.

\*\* Custom lengths are available upon request. Contact distributor for details.