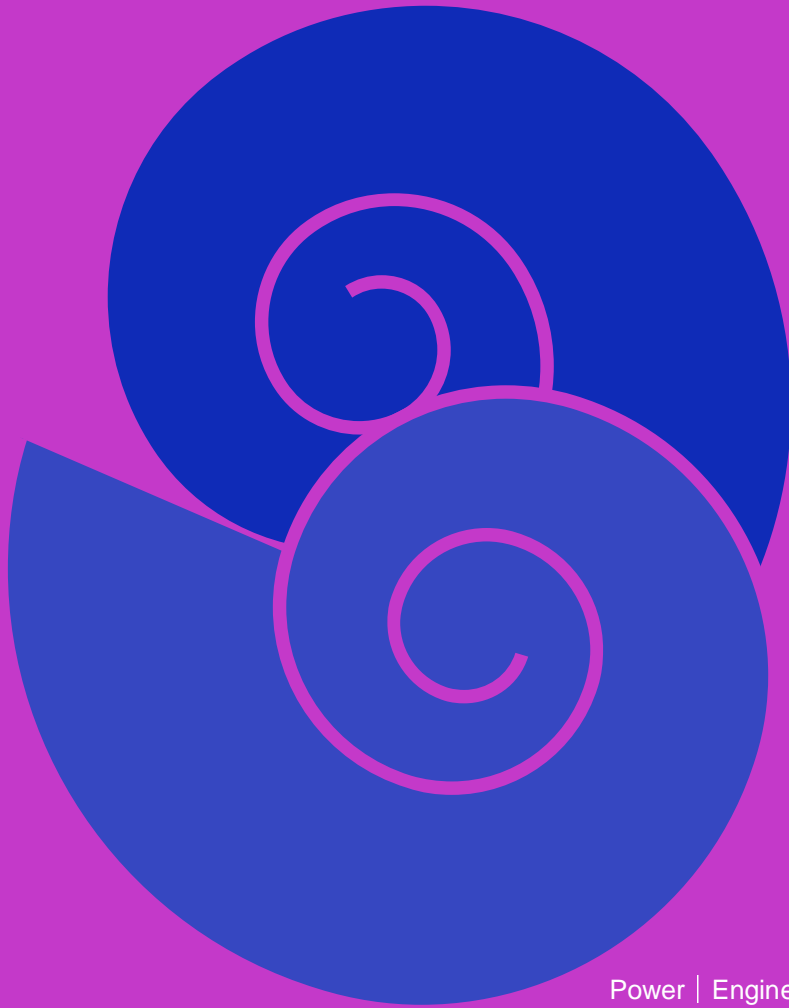




SRTP  
Yesaint



# Building Future

Power | Engineering | Environment | Oil & Gas | Project | Know How

**Yesaint**, acts as a professional industry products manufacturer & distributor, also IT supporter since its establishment. For many years, our skills and experience in design, produce, trade and consult lead us become one of the successful companies. We are confident that we provide the best service for your unique need.



### Business Scope

- Tube & Pipe
- Machinery
- SRTP
- Environment
- IT Support

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## SRTP

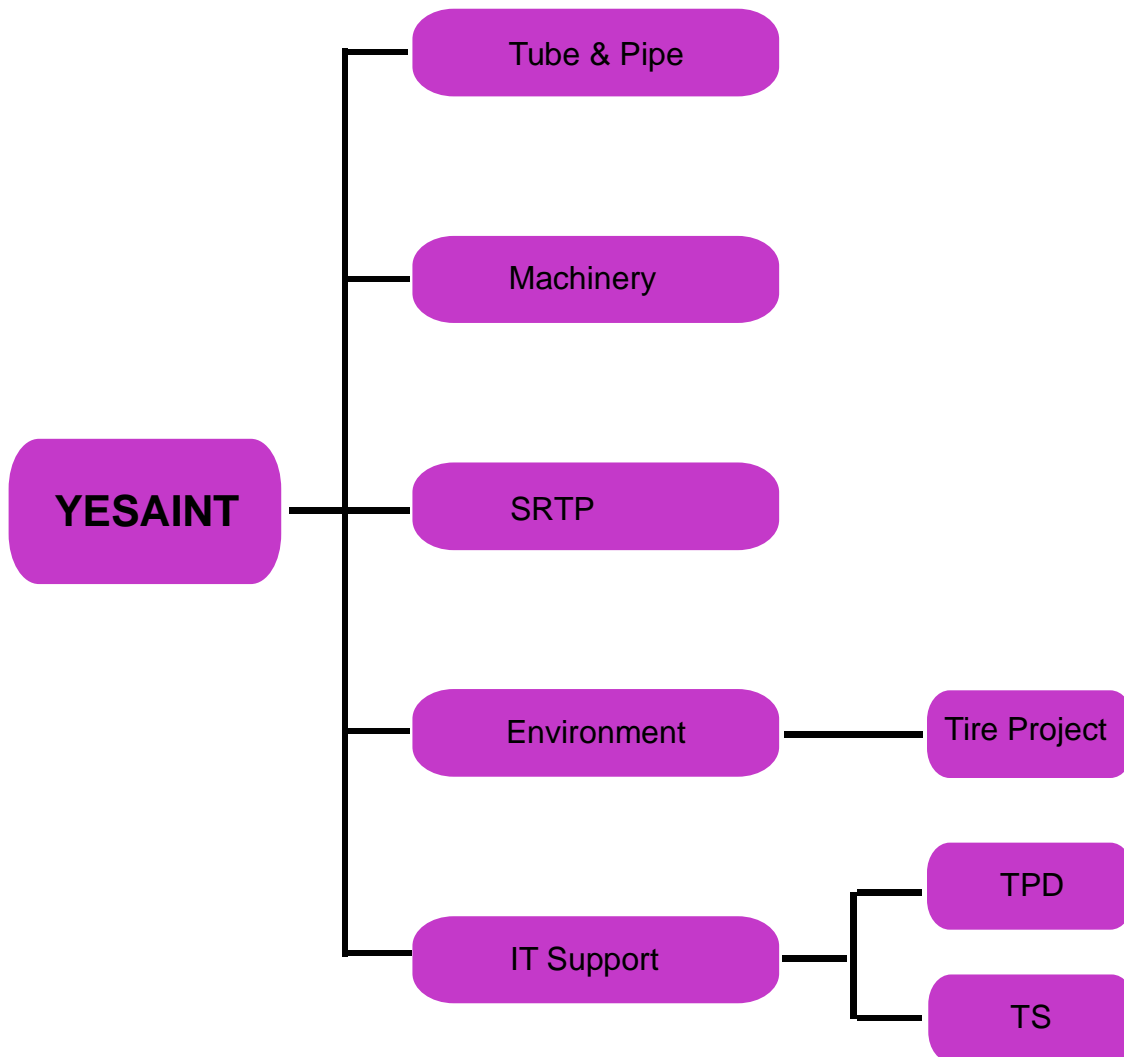
About Steel-wire Reinforced Thermoplastics (PE) composite-Pipe



Steel-wire Reinforced Thermoplastics (PE) composite-Pipe is a new type of double-face anti-corrosion pressure conduit made of net frame wound with left & right spinning high strength steel wires as the reinforcement and high density polyethylene (HDPE) as the basal body, by using high performance cementing resin layer to closely connect the wire net frame with both inner and outer HDPE layers and continuous forming on the extruding production line. It has such advantages as high strength, good rigidity, large circular rigidity, crepe-resistant, small linear expansion coefficient, long life-time, etc. It is widely used in such areas as water supply & sewer system, fire project, oil & natural gas, chemicals, power, etc.



# ORGANIZATION



Dear Sir or Madam,

Thanks very much for your attention to the brochure of Yesaint's SRTP division.

With steel wire inside our pipes, SRTP can be widely used in many popular industries, and can also take place of plastic pipes and steel pipes. To cooperate with esteemed company, we would like to look for business agent & stockist as our partner.

It would be our honor to work together with you.

Regards,

Yesaint

Contact us: [info@yesaint.com](mailto:info@yesaint.com)

Steel-wire Reinforced Thermoplastics (PE) composite-Pipe uses excellent quality steel wire mesh as the toughened entity, it uses HDPE as the base material. It is continuously shaped on extruding production line. It is a new type pressure pipe whose double surfaces are erosion-proof.

## Product Features

- Long service life; under standard condition it can be safely used for a minimum of fifty years;
- Of extremely good property of anti-corrosion;
- The inner wall is smooth without fouling; small transmission resistance; compared to the water transmission rate of steel pipe of the same inner diameter, the flow rate can be raised by 30%;
- Extremely good wear resistance, with its wear resistance being 4 times that of steel pipe;
- Very good toughness; it is unlikely to burst even in the case of severe deformation and thus it is of very good earthquake resistance;
- Light in weight, bendable, of excellent workability and lower construction cost.



1. Technique Parameter
2. Gas Solutions Purpose
3. Water Solutions Purpose



# TECHNIQUE PARAMETER

| Nominal Pressure Compensation Factor   |           |         |        |         |         |         |         |
|--|-----------|---------|--------|---------|---------|---------|---------|
| When pipelining of medium above 20°C or under 20°C, the nominal pressure of pipes should be revised. |           |         |        |         |         |         |         |
| Temperature °C   | -20≤t≤-10 | -10≤t≤0 | 0≤t≤20 | 20≤t≤30 | 30≤t≤40 | 40≤t≤50 | 50≤t≤60 |
| Compensation Factor  | 0.90      | 0.95    | 1.00   | 0.95    | 0.90    | 0.86    | 0.81    |

| Main Technique Properties |                                  |                              |
|---------------------------|----------------------------------|------------------------------|
| SN                        | Items of Technique Properties    | Index                        |
| 1                         | Medium Temperature               | -20°C ≤ t ≤ 65°C             |
| 2                         | Modulus of Elasticity            | 2.8-4.0Gpa                   |
| 3                         | Erosion Resistance               | Good                         |
| 4                         | Coefficient of Heat Conductivity | 0.2-0.3w/m.k                 |
| 5                         | Wall Roughness                   | R <sub>a</sub> =0.007        |
| 6                         | Coefficient of Linear Expansion  | 12-15×10 <sup>-5</sup> m/m.k |

| Mechanical Properties  |                                       |  |  |
|--|---------------------------------------|--|--|
| Items  |                                       |  | Index  |
| Hydraulic Test   | Feedwater System                      | Temperature: 20°C                                | Free of crack and leakage                        |
|  |                                       | Time: 1 Hour                                     |  |
|  |                                       | Pressure: Nominal Pressure × 2                   |  |
|  |                                       | Temperature: 80°C                                |  |
|  |                                       | Time: 165 Hours                                  |  |
|  | Pressure: Nominal Pressure × 2 × 0.71 |  |  |
|  | Gas System                            | Temperature: 20°C                                |  |
|  |                                       | Time: 1 Hour                                     |  |
|  |                                       | Pressure: Nominal Pressure × 1.6 × 1.5           |  |
|  |                                       | Temperature: 80°C                                |  |
| Time: 165 Hours  |                                       |  |  |
| Pressure: Nominal Pressure × 1.6 × 1.5 × 0.71                                |                                       |  |  |
| Bursting Pressure Test   | Feedwater System                      | Temperature: 20°C                                | Bursting   |
|  |                                       | Bursting Pressure ≥ Nominal Pressure × 3.0       |  |
|  | Gas System                            | Temperature: 20°C                                |  |
|  |                                       | Bursting Pressure ≥ Nominal Pressure × 3.3 × 1.6 |  |
| Thermal Stability (200°C) min  |                                       |  | > 20   |
| Weather-Resistance (after the pipes suffered more than 3.5GJ/m aging energy) |                                       |  | Free of crack and leakage; Except for Black SRTP |

## GAS SOLUTIONS PURPOSE

| DN/mm |           | MPa                           |           |           |           |           |
|-------|-----------|-------------------------------|-----------|-----------|-----------|-----------|
|       |           | 0.4                           | 0.6       | 0.8       | 1.0       | 1.25      |
| OD    | Tolerance | Wall thickness & Tolerance mm |           |           |           |           |
| 50    | +1.2      |                               | 4.5 +1.2  | 5.0 +1.2  | 5.5 +1.5  | 5.5 +1.5  |
| 63    | +1.2      |                               | 4.5 +1.2  | 5.0 +1.2  | 5.5 +1.5  | 5.5 +1.5  |
| 75    | +1.2      |                               | 5.0 +1.2  | 5.0 +1.2  | 5.5 +1.5  | 6.0 +1.5  |
| 90    | +1.4      |                               | 5.5 +1.5  | 5.5 +1.5  | 5.5 +1.5  | 6.0 +1.5  |
| 110   | +1.5      | 5.5 +1.5                      | 7.0 +1.5  | 7.0 +1.5  | 7.5 +1.5  | 8.5 +1.5  |
| 140   | +1.7      | 5.5 +1.5                      | 8.0 +1.5  | 8.5 +1.5  | 9.0 +1.5  | 9.5 +1.5  |
| 160   | +2.0      | 6.0 +1.5                      | 9.0 +1.5  | 9.5 +1.5  | 10.0 +2.0 | 10.5 +2.0 |
| 200   | +2.3      | 6.0 +1.5                      | 9.5 +1.5  | 10.5 +2.0 | 11.0 +2.0 | 12.5 +2.2 |
| 225   | +2.5      | 8.0 +1.5                      | 10.0 +2.0 | 10.5 +2.0 | 11.0 +2.0 |           |
| 250   | +2.5      | 10.5 +2.0                     | 11.0 +2.0 | 12.0 +2.2 | 12.5 +2.2 |           |
| 315   | +2.7      | 11.5 +2.0                     | 11.5 +2.0 | 13.0 +2.5 | 13.0 +2.5 |           |
| 355   | +2.8      | 12.0 +2.2                     | 12.0 +2.2 | 14.0 +2.5 |           |           |
| 400   | +3.0      | 12.5 +2.2                     | 12.5 +2.2 | 15.0 +2.5 |           |           |
| 450   | +3.2      | 13.5 +2.5                     | 13.5 +2.5 | 16.0 +2.8 |           |           |
| 500   | +3.2      | 15.5 +2.8                     | 15.5 +2.8 | 18.0 +3.0 |           |           |
| 560   | +3.2      | 20.0 +3.0                     | 20.0 +3.0 |           |           |           |
| 630   | +3.2      | 23.0 +3.0                     | 23.0 +3.0 |           |           |           |

| DN  | Symbol | MPa                      |     |     |     |      |
|-----|--------|--------------------------|-----|-----|-----|------|
|     |        | 0.4                      | 0.6 | 0.8 | 1.0 | 1.25 |
|     |        | Steel Wire not less than |     |     |     |      |
| 50  | Q      |                          | 14  | 18  | 18  | 24   |
| 63  | Q      |                          | 24  | 28  | 30  | 36   |
| 75  | Q      |                          | 24  | 30  | 30  | 36   |
| 90  | Q      |                          | 60  | 64  | 64  | 72   |
| 110 | Q      | 30                       | 30  | 30  | 40  | 62   |
| 140 | Q      | 30                       | 30  | 30  | 40  | 62   |
| 160 | Q      | 40                       | 50  | 72  | 82  | 102  |
| 200 | Q      | 62                       | 86  | 112 | 112 |      |
| 225 | Q      | 72                       | 90  | 108 | 112 |      |
| 250 | Q      | 90                       | 124 | 132 | 144 |      |
| 315 | Q      | 96                       | 136 |     |     |      |
| 355 | Q      | 102                      | 144 |     |     |      |
| 400 | Q      | 180                      | 180 |     |     |      |
| 450 | Q      | 196                      | 272 |     |     |      |
| 500 | Q      | 180                      | 272 |     |     |      |
| 560 | Q      | 304                      |     |     |     |      |
| 630 | Q      | 336                      |     |     |     |      |

# WATER SOLUTIONS PURPOSE

| DN/mm |           | MPa                           |                      |                      |                      |                      |                      |                      |
|-------|-----------|-------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|       |           | 0.8                           | 1.0                  | 1.25                 | 1.6                  | 2.0                  | 2.5                  | 3.5                  |
| OD    | Tolerance | Wall thickness & Tolerance mm |                      |                      |                      |                      |                      |                      |
| 50    | +1.2      |                               |                      |                      | 5.0 <sup>+1.2</sup>  | 5.0 <sup>+1.2</sup>  | 5.5 <sup>+1.5</sup>  | 6.0 <sup>+1.5</sup>  |
| 63    | +1.2      |                               |                      |                      | 5.5 <sup>+1.5</sup>  | 5.5 <sup>+1.5</sup>  | 5.5 <sup>+1.5</sup>  | 6.0 <sup>+1.5</sup>  |
| 75    | +1.2      |                               |                      |                      | 7.0 <sup>+1.5</sup>  | 7.0 <sup>+1.5</sup>  | 7.5 <sup>+1.5</sup>  | 8.5 <sup>+1.5</sup>  |
| 90    | +1.4      |                               |                      |                      | 8.0 <sup>+1.5</sup>  | 8.5 <sup>+1.5</sup>  | 9.0 <sup>+1.5</sup>  | 9.5 <sup>+1.5</sup>  |
| 110   | +1.5      |                               | 5.5 <sup>+1.5</sup>  | 5.5 <sup>+1.5</sup>  | 9.0 <sup>+1.5</sup>  | 9.5 <sup>+1.5</sup>  | 10.0 <sup>+2.0</sup> | 10.5 <sup>+2.0</sup> |
| 140   | +1.7      |                               | 5.5 <sup>+1.5</sup>  | 5.5 <sup>+1.5</sup>  | 9.5 <sup>+1.5</sup>  | 10.5 <sup>+2.0</sup> | 11.0 <sup>+2.0</sup> | 12.5 <sup>+2.2</sup> |
| 160   | +2.0      |                               | 6.0 <sup>+1.5</sup>  | 6.0 <sup>+1.5</sup>  | 10.0 <sup>+2.0</sup> | 10.5 <sup>+2.0</sup> | 11.0 <sup>+2.0</sup> |                      |
| 200   | +2.3      |                               | 6.0 <sup>+1.5</sup>  | 6.0 <sup>+1.5</sup>  | 12.0 <sup>+2.2</sup> | 12.0 <sup>+2.2</sup> | 12.5 <sup>+2.2</sup> |                      |
| 225   | +2.5      |                               | 8.0 <sup>+1.5</sup>  | 8.0 <sup>+1.5</sup>  | 13.0 <sup>+2.5</sup> | 13.0 <sup>+2.5</sup> |                      |                      |
| 250   | +2.5      | 8.0 <sup>+1.5</sup>           | 10.5 <sup>+2.0</sup> | 10.5 <sup>+2.0</sup> | 14.0 <sup>+2.5</sup> |                      |                      |                      |
| 315   | +2.7      | 9.5 <sup>+1.5</sup>           | 11.5 <sup>+2.0</sup> | 11.5 <sup>+2.0</sup> | 15.0 <sup>+2.8</sup> |                      |                      |                      |
| 355   | +2.8      | 10.0 <sup>+1.8</sup>          | 12.0 <sup>+2.2</sup> | 12.0 <sup>+2.2</sup> | 16.0 <sup>+2.8</sup> |                      |                      |                      |
| 400   | +3.0      | 10.5 <sup>+2.0</sup>          | 12.5 <sup>+2.2</sup> | 12.5 <sup>+2.2</sup> | 18.0 <sup>+3.0</sup> |                      |                      |                      |
| 450   | +3.2      | 11.5 <sup>+2.0</sup>          | 13.5 <sup>+2.5</sup> | 13.5 <sup>+2.5</sup> |                      |                      |                      |                      |
| 500   | +3.2      | 12.5 <sup>+2.2</sup>          | 15.5 <sup>+2.8</sup> | 15.5 <sup>+2.8</sup> |                      |                      |                      |                      |
| 560   | +3.2      | 17.0 <sup>+3.0</sup>          | 20.0 <sup>+3.0</sup> |                      |                      |                      |                      |                      |
| 630   | +3.2      | 20.0 <sup>+3.0</sup>          | 23.0 <sup>+3.0</sup> |                      |                      |                      |                      |                      |

| DN  | Symbol | MPa                      |     |      |     |     |     |     |
|-----|--------|--------------------------|-----|------|-----|-----|-----|-----|
|     |        | 0.8                      | 1.0 | 1.25 | 1.6 | 2.0 | 2.5 | 3.5 |
|     |        | Steel Wire not less than |     |      |     |     |     |     |
| 50  | L, T   |                          |     |      | 14  | 18  | 18  | 24  |
| 63  | L, T   |                          |     |      | 24  | 28  | 30  | 36  |
| 75  | L, T   |                          |     |      | 24  | 30  | 30  | 36  |
| 90  | L, T   |                          |     |      | 60  | 64  | 64  | 72  |
| 110 | L, T   |                          |     | 30   | 30  | 30  | 40  | 62  |
| 140 | L, T   |                          |     | 30   | 30  | 30  | 40  | 102 |
| 160 | L, T   |                          |     | 40   | 50  | 72  | 82  | 144 |
| 200 | L, T   |                          |     | 62   | 86  | 112 | 112 |     |
| 225 | L, T   |                          |     | 72   | 90  | 108 | 112 |     |
| 250 | L, T   |                          | 82  | 90   | 124 | 132 | 144 |     |
| 315 | L, T   |                          | 82  | 96   | 135 | 144 |     |     |
| 355 | L, T   |                          | 86  | 102  | 144 |     |     |     |
| 400 | L, T   |                          | 136 | 180  | 180 |     |     |     |
| 450 | L, T   |                          | 148 | 196  | 272 |     |     |     |
| 500 | L, T   |                          | 164 | 180  |     |     |     |     |
| 560 | L, T   | 240                      | 304 |      |     |     |     |     |
| 630 | L, T   | 280                      | 336 |      |     |     |     |     |



## Fitting Characters

- It can be used for connection with all sizes of pipes of SDR series.
- It can be used for connection of pipes of same kind, same class but different number (different density, different melting index, different colors).
- Reliable connection ability, the strength of joint is high, gas sealing property is good, melting property is very stable.
- Buried hidden screw electric heat wire can effectively resist oxidization and erosion so as to guarantee stability of welding property.
- It is not easily affected by ambient temperature and man-made factors.
- Welding technology is rather simple. It is easy to operate, construction is rather convenient.



Electric-melt 45°  
Bend



Electric-melt 90°  
Bend



Electric-melt Flange  
Joint



Electric-melt Different  
Diameters Connection  
Tee Joint



Electric-melt Direct  
Connection with Different  
Diameters



Electric-melt Same  
Diameters Connection  
Tee Joint



Electric-melt Direct  
Connection with Same  
Diameters

# FITTING

## Electric-melt 45° Bend



| Name                   | Specification | L (mm) | L1 (mm) | D (mm) | D1 (mm) |
|------------------------|---------------|--------|---------|--------|---------|
| Electric-melt 45° Bend | D50           | 85     | 65      | 68     | 50      |
|                        | D63           | 90     | 65      | 82     | 63      |
|                        | D75           | 89     | 67      | 95     | 75      |
|                        | D90           | 102    | 76      | 112    | 90      |
|                        | D110          | 112    | 85      | 140    | 110     |
|                        | D140          | 138    | 100     | 175    | 140     |
|                        | D160          | 142    | 105     | 195    | 160     |
|                        | D200          | 170    | 125     | 245    | 200     |
|                        | D250          | 184    | 123     | 295    | 250     |
|                        | D315          | 200    | 133.5   | 362    | 315     |
| D400                   | 235           | 150    | 475     | 400    |         |

## Electric-melt 90° Bend



| Name                   | Specification | L (mm) | L1 (mm) | D (mm) | D1 (mm) |
|------------------------|---------------|--------|---------|--------|---------|
| Electric-melt 90° Bend | D50           | 83     | 47      | 66     | 50      |
|                        | D63           | 87     | 53      | 80     | 63      |
|                        | D75           | 100    | 58      | 94     | 75      |
|                        | D90           | 123    | 74      | 113    | 90      |
|                        | D110          | 140    | 78      | 140    | 110     |
|                        | D140          | 163    | 87      | 176    | 140     |
|                        | D160          | 174    | 100     | 197    | 160     |
|                        | D200          | 191    | 103     | 240    | 200     |
|                        | D250          | 253    | 132     | 308    | 250     |
|                        | D315          | 259    | 135     | 373    | 315     |
| D400                   | 348           | 143    | 472     | 400    |         |

## Electric-melt Direct Connection with Same Diameters



| Name  | Specification | L (mm) | L1 (mm) | D1 (mm) | D (mm) |
|---|---------------|--------|---------|---------|--------|
| Electric-melt Direct Connection with Same Diameters | D50           | 95     | 45      | 50      | 66     |
|   | D63           | 109    | 53      | 63      | 86     |
|   | D75           | 123    | 60      | 75      | 95     |
|   | D90           | 154    | 75      | 90      | 113    |
|   | D110          | 153    | 76      | 110     | 141    |
|   | D140          | 182    | 90      | 140     | 176    |
|   | D160          | 187    | 94      | 160     | 200    |
|   | D200          | 211    | 106     | 200     | 243    |
|   | D225          | 235    | 110     | 225     | 270    |
|   | D250          | 265    | 128     | 250     | 305    |
|   | D315          | 270    | 135     | 315     | 372    |
| D400  | 310           | 151    | 400     | 464     |        |
| D500  | 385           | 193    | 500     | 569     |        |

# FITTING

Electric-melt Flange Joint



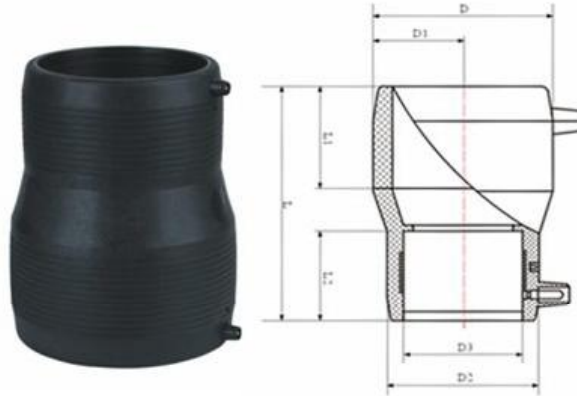
| Name                       | Specification | L (mm) | L1 (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) |
|----------------------------|---------------|--------|---------|--------|---------|---------|---------|
| Electric-melt Flange Joint | D50           | 119    | 115     | 94     | 66      | 50/2    | 43      |
|                            | D63           | 122    | 112     | 114    | 82      | 63/2    | 59      |
|                            | D75           | 134    | 126     | 129    | 98      | 75/2    | 64      |
|                            | D90           | 138    | 126     | 176    | 141     | 110/2   | 90      |
|                            | D110          | 142    | 148     | 144    | 119     | 45      | 79/2    |
|                            | D140          | 172    | 187     | 211    | 176     | 140/2   | 119/2   |
|                            | D160          | 175    | 197     | 226    | 201     | 160/2   | 137/2   |
|                            | D200          | 173    | 203     | 258    | 243     | 200/2   | 173/2   |
|                            | D250          | 208    | 223     | 335    | 301     | 250/2   | 218/2   |
|                            | D315          | 196    | 212     | 390    | 355     | 315/2   | 304/2   |
| D400                       | 201           | 216    | 485     | 458    | 400/2   | 391/2   |         |
| D500                       | 284           | 324    | 570     | 500    | 439/2   | 480/2   |         |

Electric-melt Same Diameters Connection Tee Joint



| Name  | Specification | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | D (mm) | D1 (mm) | D2 (mm) |
|---|---------------|--------|---------|---------|---------|--------|---------|---------|
| Electric-melt Same Diameters Connection Tee Joint | D50           | 152    | 47      | 90      | 45      | 67     | 50      | 50      |
|   | D63           | 180    | 56      | 111     | 55      | 81     | 63      | 63      |
|   | D75           | 204    | 58      | 121     | 61      | 98     | 75      | 75      |
|   | D90           | 246    | 73      | 150     | 75      | 111    | 90      | 90      |
|   | D110          | 244    | 75      | 170     | 98      | 139    | 110     | 110     |
|   | D140          | 327    | 101     | 214     | 106     | 192    | 140     | 140     |
|   | D160          | 326    | 97      | 209     | 101     | 195    | 160     | 160     |
|   | D200          | 376    | 106     | 234     | 113     | 241    | 200     | 200     |
|   | D250          | 420    | 119     | 276     | 128     | 299    | 250     | 250     |
|   | D315          | 582    | 158     | 336     | 125     | 373    | 315     | 315     |
| D400  | 642           | 162    | 439     | 146     | 466     | 400    | 400     |         |

## Electric-melt Direct Connection with Different Diameters



| Name   | Specification | L (mm) | L1 (mm) | L2 (mm) | D (mm) | D1 (mm) | D2 (mm) | D3 (mm) |
|--|---------------|--------|---------|---------|--------|---------|---------|---------|
| Electric-melt Direct Connection with Different Diameters | D63/50        | 118    | 58      | 51      | 80     | 63/2    | 65      | 50      |
|  | D75/50        | 134    | 60      | 51      | 94     | 75/2    | 65      | 50      |
|  | D75/63        | 134    | 60      | 54      | 94     | 75/2    | 80      | 63      |
|  | D90/50        | 157    | 70      | 51      | 112    | 90/2    | 65      | 50      |
|  | D90/63        | 157    | 70      | 55      | 112    | 90/2    | 80      | 63      |
|  | D90/75        | 158    | 70      | 62      | 112    | 90/2    | 94      | 75      |
|  | D110/50       | 204    | 96      | 58      | 138    | 110/2   | 69      | 50      |
|  | D110/63       | 210    | 90      | 56      | 140    | 110/2   | 80      | 63      |
|  | D110/75       | 216    | 113     | 87      | 139    | 110/2   | 114     | 75      |
|  | D110/90       | 216    | 113     | 83      | 139    | 110/2   | 114     | 90      |
|  | D140/110      | 231    | 107     | 63      | 160    | 140/2   | 140     | 110     |
|  | D160/50       | 250    | 105     | 59      | 198    | 160/2   | 70      | 50      |
|  | D160/63       | 250    | 105     | 61      | 198    | 160/2   | 70      | 63      |
|  | D160/75       | 250    | 102     | 80      | 198    | 160/2   | 114     | 75      |
|  | D160/90       | 250    | 102     | 76      | 198    | 160/2   | 114     | 90      |
|  | D160/110      | 241    | 101     | 78      | 198    | 160/2   | 140     | 110     |
|  | D160/140      | 240    | 102     | 79      | 196    | 160/2   | 170     | 140     |
|  | D200/50       | 274    | 110     | 70      | 242    | 200/2   | 90      | 50      |
|  | D200/63       | 274    | 110     | 71      | 242    | 200/2   | 90      | 63      |
|  | D200/75       | 261    | 105     | 71      | 238    | 200/2   | 115     | 75      |
|  | D200/90       | 261    | 105     | 68      | 238    | 200/2   | 115     | 90      |
|  | D200/110      | 269    | 110     | 88      | 240    | 200/2   | 140     | 110     |
|  | D200/160      | 262    | 105     | 95      | 238    | 200/2   | 196     | 160     |
|  | D250/50       | 280    | 114     | 62      | 303    | 250/2   | 90      | 50      |
|  | D250/63       | 280    | 114     | 62      | 303    | 250/2   | 90      | 63      |
|  | D250/75       | 280    | 114     | 85      | 303    | 250/2   | 116     | 75      |
|  | D250/90       | 280    | 114     | 82      | 303    | 250/2   | 116     | 90      |
|  | D250/110      | 280    | 114     | 83      | 303    | 250/2   | 141     | 110     |
|  | D250/160      | 274    | 114     | 119     | 304    | 250/2   | 198     | 160     |
|  | D250/200      | 266    | 112     | 129     | 303    | 250/2   | 242     | 200     |
| D315/250   | 308           | 123    | 129     | 369     | 315/2  | 241     | 200     |         |
| D315/200   | 285           | 121    | 131     | 370     | 315/2  | 303     | 350     |         |
| D400/315   | 334           | 139    | 152     | 446     | 400/2  | 371     | 315     |         |

# FITTING

Electric-melt Different  
Diameters Connection  
Tee Joint



| Name   | Specification | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | D (mm) | D1 (mm) | D2 (mm) |
|--|---------------|--------|---------|---------|---------|--------|---------|---------|
| Electric-melt<br>Different<br>Diameters<br>Connection<br>Tee Joint | D63/50        | 180    | 55      | 94      | 49      | 81     | 63      | 50      |
|  | D75/50        | 202    | 59      | 114     | 49      | 98     | 75      | 50      |
|  | D75/63        | 202    | 59      | 117     | 62      | 98     | 75      | 63      |
|  | D90/50        | 246    | 73      | 116     | 49      | 111    | 90      | 50      |
|  | D90/63        | 246    | 73      | 120     | 57      | 111    | 90      | 63      |
|  | D90/75        | 246    | 73      | 149     | 74      | 111    | 90      | 75      |
|  | D110/50       | 243    | 75      | 135     | 46      | 140    | 110     | 63      |
|  | D110/63       | 243    | 75      | 141     | 53      | 140    | 110     | 63      |
|  | D110/75       | 243    | 75      | 156     | 73      | 140    | 110     | 75      |
|  | D110/90       | 243    | 75      | 159     | 75      | 140    | 110     | 90      |
|  | D160/50       | 325    | 96      | 171     | 48      | 195    | 160     | 50      |
|  | D160/63       | 325    | 96      | 178     | 55      | 195    | 160     | 63      |
|  | D160/75       | 325    | 96      | 236     | 116     | 195    | 160     | 75      |
|  | D160/90       | 325    | 96      | 194     | 75      | 195    | 160     | 90      |
|  | D160/110      | 325    | 96      | 233     | 116     | 195    | 160     | 110     |
|  | D160/140      | 325    | 96      | 234     | 120     | 195    | 160     | 140     |
|  | D200/50       | 377    | 105     | 197     | 48      | 240    | 200     | 50      |
|  | D200/63       | 377    | 105     | 211     | 64      | 240    | 200     | 63      |
|  | D200/75       | 377    | 105     | 219     | 74      | 240    | 200     | 75      |
|  | D200/90       | 377    | 105     | 218     | 74      | 240    | 200     | 90      |
|  | D200/110      | 377    | 105     | 354     | 113     | 240    | 200     | 110     |
|  | D200/160      | 377    | 105     | 256     | 121     | 240    | 200     | 160     |
|  | D250/50       | 416    | 106     | 232     | 47      | 298    | 250     | 50      |
|  | D250/63       | 416    | 106     | 247     | 63      | 298    | 250     | 63      |
|  | D250/75       | 416    | 106     | 255     | 72      | 298    | 250     | 75      |
|  | D250/90       | 416    | 106     | 252     | 72      | 298    | 250     | 90      |
|  | D250/110      | 416    | 106     | 287     | 109     | 298    | 250     | 110     |
|  | D250/160      | 416    | 106     | 283     | 112     | 298    | 250     | 160     |
|  | D250/200      | 416    | 106     | 301     | 136     | 298    | 250     | 200     |
|  | D315/90       | 583    | 159     | 362     | 92      | 372    | 315     | 90      |
|  | D315/110      | 583    | 159     | 390     | 116     | 372    | 315     | 110     |
|  | D315/160      | 583    | 159     | 379     | 117     | 372    | 315     | 160     |
|  | D315/200      | 583    | 159     | 391     | 146     | 372    | 315     | 200     |
| D315/250   | 583           | 159    | 381     | 147     | 372     | 315    | 250     |         |
| D400/110   | 670           | 161    | 448     | 90      | 467     | 400    | 110     |         |
| D400/160   | 670           | 161    | 501     | 143     | 467     | 400    | 160     |         |
| D400/200   | 670           | 161    | 487     | 147     | 467     | 400    | 200     |         |
| D400/250   | 670           | 161    | 489     | 170     | 467     | 400    | 250     |         |
| D400/315   | 670           | 161    | 461     | 170     | 467     | 400    | 315     |         |



One of the worldwide leaders in technology for SRTP (Steel-wire Reinforced Thermoplastics (PE) composite-Pipe) industry

[www.ESRTP.com](http://www.ESRTP.com)

# QUALITY



Electric Heat Constant Temperature Dry Case



Fused Mass Flow Speed Determinator



Electron Universal Testing Machine



Tubular Product Pressure Resistance Blasting Machine



Analysis Balance



ISO9001:2000



Manufacture License

# APPLICATION

## Infrastructure

The infrastructure application includes:

- Municipal low pressure projects
- De-watering outlets
- Culverts
- Drainage systems
- Sanitary- and Storm Sewers
- Potable water transmission & distribution
- Sewage forcemains
- Gravity sewers
- Pressure water systems



## Cable Jacketing

It is used for protection of cables.

- Electricity cables
- Telephone cables
- Optical cables
- TV-cables

## Inspection Chambers

A wide range of different manholes and inspection chambers for sewerage and storm water applications is available to meet special demands of customers.

- Sewage systems
- Storm water
- Drainage
- Separators



## Road Construction and Culverts

The pipes are suitable for a wide range of drainage applications.

- Drainage pipe in building sites, roadworks, storm water drains and culverts
- Light, durable telescopic wells
- Culverts

# APPLICATION

## Building Systems

- Mini Waste
- Water Treatment Plants



## Industrial applications

- Oilfield: It can be used for concentrated transport pipe of oil field, waste pipe, transport pipe of crude oil and finished oil, pipes through which poly material are inserted in the oil well, halogen water disposal pipe, etc. It is particularly good for transport of oil, gas, water containing high content of sulphur.
- Coal mines: It can be used for pipe for water coal paste, coal bed gas, fine coal, etc.
- Other mines: It can be used for pipes transporting mineral paste, project pipe and pump transport pipe, etc.



## Environmental Applications

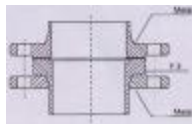
- Seawater Desalination Plant



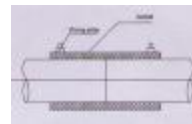
## PROJECT

Steel-wire Reinforced Thermoplastics (PE) composite-Pipe mainly applies electric heat melting link and flange link. For electric heat melting link, insert the composite pipe into an electric heat melting pipe, heating by electric wire may melt the surface of pipe and fill gap between the pipe material and pipe, until surface of pipe material forms melting material, two kinds of melt combine and cool and link together. Link between the composite pipe and metal pipe, valve & meter applies flange link.

Tensile strength and explosion strength of joint for both electric heat melting link and flange link of composite pipe are higher than those of the pipe material.



Flange Link Sketch



Electric Heat Melting Link Sketch

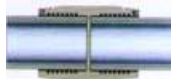


Full automatic welding machine

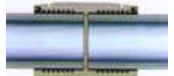
Construction and installation of Steel-wire Reinforced Thermoplastic (PE) composite-Pipe is convenient, safe and reliable.

Due to its distinct advantages of erosion-proof, abrasion proof, crepe proof, simple installation, reasonable price, long lifetime, the composite pipes are widely used in such areas as gas, oil, chemical, municipal works, mines, metallurgical industry, power industry, etc.

Electric melting welding: insert the composite pipe into an electric heat melting pipe, heating by electric wire may melt the surface of pipe and fill gap between the pipe material and pipe, until surface of pipe material forms melting material, two kinds of melt combine and cool and link together.



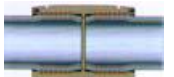
Electric melting pipe whose inner surface has been made clean should be appropriately placed with pipe material whose outer surface has been treated.



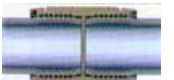
Heated by resistant wire, inner surface plastic starts to expand.



Melting area enlarges, heat is spread to the surface of pipe material and make it melt.



Expanded heat pipe and melted plastics are limited by ambient cold area, so that required melting & expansion pressure can be met.



Turn off the welding machine, when it cools down, welding finishes, it can be put into use.

### After Sales

To guarantee customer's interest and make full use of composite pipes, we provide following service:

- Standards, construction and inspection norms for acceptance documents for S RTP
- Coordinate with customers for plan and design of pipelines
- Provide technical support and consultation
- Provide relative documents on welding technology and installation technology
- Provide special construction tools
- Provide training on pipe installation, repair & maintenance
- Coordinate with construction unit for construction

### Business Opportunity

To develop our business & production capacity, currently we need lots of PE80 and PE100 material from Middle East region, the resources only from plants will be accepted. If you have any interests in cooperation with us, please contact us promptly!

### Project Design

We offer full design of the project according to your request.

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