Fitting Specification



Package (Pcs/Ctn) Spec.(mm) H(mm) A(mm) Y-Tee dn32*25 95 85 40 dn40*32 100 100 30

Saddle Profile joigt	↑	Spec.(mm)	A(mm)	H(mm)	Package (Pcs/Ctn)
		dn63*25	44	35	120
ш	†	dn110*32	51	55	60
		dn160*40	55	60	40

Manifold (9 access)	5	Spec.(mm)	A(mm)	H1(mm)	H(mm)	Package (Pcs/Ctn)
	WW.	dn110*32	220	60	340	4

Manifold (10 access)	Spec.(mm)	A(mm)	H1(mm)	H(mm)	Package (Pcs/Ctn)
-	dn110*32	220	60	340	4

Manifold (8 access)	Spec.(mm)	A(mm)	H1(mm)	H(mm)	Package (Pcs/Ctn)
	dn110*32	175	100	850	1
***************************************	 dn160*40	225	100	850	1

Thermo-electro coupling	Spec.(mm)	Package (Pcs/Ctn)
	dn25	12
July 1999	dn32	12

Notice: All product information are taken latest "Kingbull product price-list" as final

Thermo-socket Fitting

Spec.(mm)	Package (Pcs/Ctn)
T25	50
T32	50
T40	70
T63	30
T75	18
T110	2
	T25 T32 T40 T63 T75

Union/Socket	Spec.(mm)	Package (Pcs/Ctn)
	S25	100
	S32	100
	S40	70
	S63	12
	S75	12
	S110	13

	45° Elbow	Spec.(mm)	Package (Pcs/Ctn)
		L25	150
		L32	80
		L40	40
		L63	45
		L75	27
		L110	9
	Reducing Tee	Spec.(mm)	Package

Package

90° Elbow	Spec.(mm)	Package (Pcs/Ctn)
	L25	120
	L32	70
	L40	90
	L63	36
	L75	20
	L110	6

Redu	cing Lee	Spec.(mm)	(Pcs/Ctn)
		T32*25	50
	T40*25	100	
		T40*32	80
1		T63*25	30
		T63*32	40
	ědá	T63*40	30
	لر	T75*25	30
	T75*32	30	
	_//	T75*40	24
	T75*63	19	
	T110*63	8	
		T110*75	5

Spec.(mm)	Package (Pcs/Ctn)
S32*25	60
S40*25	80
S40*32	70
S63*25	90
S63*32	90
S63*40	90
S75*63	48
S110*63	18
S110*75	16
	\$32*25 \$40*25 \$40*32 \$63*25 \$63*32 \$63*40 \$75*63 \$110*63

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13 14

Thermo-socket Fitting

End cap	Spec.(mm)	Package (Pcs/Ctn)
	D25 S	150
	D32	80
	D40	50
	D63	35
	D75	24
	D110	24

PE Plastic Flange	Spec.(mm)	Package (Pcs/Ctn)	
	63	30	
	75	24	
	110	15	

PE Metal Flange	Spec.(mm)	Package (Pcs/Ctn)	
	63	16	
Q	75	16	
	110	16	

Brass Stop Valve	Spec.(mm)	Package (Pcs/Ctn)
	25	9
	32	10
	40	8
	63	2

Ground Heat Pump Tool





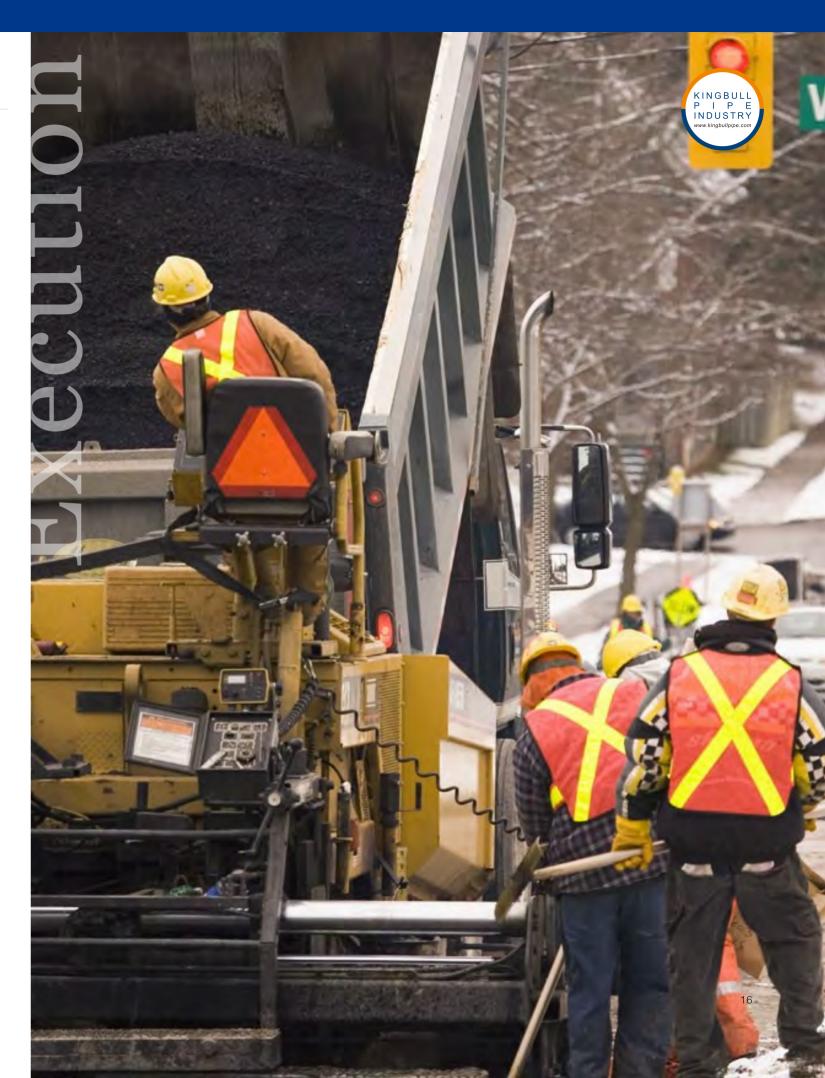








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Construction installation

1. The preheating mechanism of U type pipe

PEpipe and U type joints apply electro fusion or heat fusion

Electro fusion operation:

©Check the pipe and fitting to make sure they are clean and dry.

OMark the insert depth, scrape the surface of the pipe.

Olnsert the pipe to the fittings to the marked line.

© Straight the pipe and fittings. Before charging, to ensure the pipe and fittings are on the same axis, and then to fix pipe and fittings.

Ocharging and heating

©Cooling: when cooling done, the pipe and fitting can not be moved.

PE thermal Socket Connection Parameter (Welding Temperature is ±260°C)

Outer Diameter	Heating Hour (S)		Max transition hour	Min Cooling hour	
(mm)	SDR11	SDR17.6	(s)	(min)	
20	5		4	2	
25	7		4	2	
32	8		6	4	
40	12		6	4	
50	18		6	4	
63	24		8	6	
75	30	15	8	6	
90	40	22	8	6	
110	50	30	10	8	

PE Butt-welded Connection Parameter (Welding Temperature is $\pm 260\,^{\circ}\!\!\mathrm{C})$

Wall thickness (mm)	Height of curve edge of heating (mm) working pressure is 0.15Mpa	Heat Absorbing Hour 10*e Absorbing Pressure 0.02MPa	Max transition hour(s)	Pressurization Hour(s)	Cooling Hour of weld seam under pressure holding condition (min)
< 4.5	0.5	45	5	5	6
4.5 – 7	1.0	45 – 70	5 – 6	5 – 6	6 – 10
7 – 12	1.5	70 – 120	6 – 8	6 – 8	10 – 16
12 – 19	2.0	120 – 190	10 – 12	11 – 14	16 – 24
19 – 26	2.5	190 – 260	10 – 12	11 – 14	24 – 32
26 – 37	3.0	260 – 370	12 – 16	14 – 19	32 – 45
37 – 50	3.5	370 – 500	16 – 20	19 – 25	45 – 60
50 – 70	4.0	500 – 700	20 – 25	25 – 35	60 – 80

Take the first time hydrostatic test.

© Test pressure: working pressure should be less than or equal to 1.0Mpa which is 1.5 times or working pressure, but not less than 0.6Mpa; When the working pressure is more than 1.0 Mpa, the working pressure should add 0.5 Mpa.

©Keep the pressure on less than 15 min. the pressure drop should not less than 3%, no leakage.

2.Place the pipes

© When the drill hole di done and the inner surface solidify, the pipe should be placed into the

© When placing the pipe, it's better to weld a steel bar 300*Ø16 with the pipe and then use a PE couple Dn32 or Dn25, to keep the U type joint safe. Then slowly place down the pipe to the design depth.

© When place down the pipe, U type pipe should fill with water and keep the U type pipe separately. When place the pipe, the pipe should be drag and to keep the pipe straight, no angle should occur.

3.Backfill and seal hole

© When the pipe are placed into the holes, the holes should fill with cement. When the buried pipe reach to 40 meter, the backfill work should stop before the nearby hole completely drilled.

- 4. Clean the pipe and mark the in and out pipe line.
- 5. Joint the buried pipe and horizontal pipeline with thermal fusion or electrofusion.
- 6. Take the second pressure test.

7.Backfill pipe ditch

© Backfill material should be small loose and even, not including stone or hard things. The pipe should not be impact by the backfill material.

8. When the pipe and manifold are completely connected, to take the third time pressure test.

©The pressure test time should no less than 2 hours, on leakage.

9. After the whole system are completed, to take the fourth time pressure test.

©The pressure test time should no less than 12 hours and after the pressure stability, the head loss should less than 3% and ensure no leakage.

17 18