

**PE/Al/PE(PEX/Al/PEX,PERT/Al/PERT)**  
**Overlap-welded Composite Pipe for Gas Transportation**

**Construction**

PE/Al/PE Overlap-welded Composite pipe is produced using an overlap-welded aluminum pipe as a core, with an extruded inside layer and outer layer of Polyethylene(PE) special used for gas pipe. An adhesive layer is used to bond the inside layer and outer layer to the wall of the aluminum pipe.

**Pipe Color**

Inside layer: black

Outer layer : yellow

**Executive Standard**

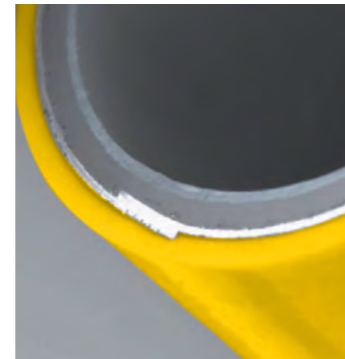
GB/T18997.1, ISO17484-1, AS 4176.8

**Performances**

- \* High-class PE special used for gas pipe.
- \* Good corrosion resistance and high strength.
- \* Coiled pipe need much less fittings.
- \* Easy installation and connection.

**Properties**

Bend radius	≥ 5D(D means outside diameter)		
Working temperature	40°C-60°C		
Oxygen -permeability	0		
Coefficient of roughness	0.0004mm		
Hydrostatic Sustained Pressure Test	10h,60°C ,2.72Mpa, No burst occur		
Delamination	No delaminate when tested with the adapter tool (1.1ID)		
Fusion Line Test	No visible damage when tested with the adapter tool(1.1 ID)		
Resistance to gas group performance	Test Medium	The maximum rate of change of average quality	The average maximum tensile force control loop rate of change of radial
	Mineral Oil	+ 0.5	± 12
	Tert -butyl Mercaptan	- 0.5	
	Methanol Into Ethylene Glycol	+ 1.0	
	Toluene	+ 1.0	



**Joining**

\* Compression Joining \* Press Joining

**Applications**

Application for indoor NG and LPG gas pipe systems with a maximum operating pressure 0.4MPa.

**Specification**

Description	Picture	Spec. (mm)	Wall Thickness (mm)	Min ring Strengths (N)	Min burst Pressure (Mpa)	Package (m/coil)
PE/Al/PE Overlap-welded Composite Pipe For Gas		1216	2.0	2300	6.00	200
		1620	2.0	2500	5.00	100
		2025	2.5	2500	4.00	100
		2532	3.0	2650	4.00	100

**Press Fitting Series for PE(-RT)/Al/PE(-RT) Gas Pipe**

Description	Picture	Spec. (mm)	Description	Picture	Spec. (mm)
Unequal straight union		S20*16	Male straight union		S16*1/2
		S25*16			S16*3/4
		S25*20			S20*1/2
		S32*20			S20*3/4
		S32*25			S20*1
Female Straight Union		S16*1/2F	Female tee		S25*1/2
		S16*3/4F			S25*3/4
		S20*1/2F			S25*1
		S20*3/4F			S32*1
		S25*3/4F			S32*11/4
Male tee		T16*1/2*16	Male elbow		T16*1/2F*16
		T20*1/2*20			T20*1/2F*20
					T20*3/4F*20
					T25*1/2F*25
					T25*3/4F*25
Female elbow		L16*1/2	Wall-plated female elbow		L16*1/2
		L20*1/2			L16*3/4
		L20*3/4			L20*1/2
		L25*3/4			L20*3/4
Equal tee		T16*16*16	Unequal tee		L25*3/4
		T20*20*20			L16*1/2F(Z)
		T25*25*25			L20*1/2F(Z)
		T32*32*32			
<b>Tools</b>					
Battery Power Press-fitting Tools		16/20/25/32	Manual Press-fitting Tools		16/20
Pipe Cutter		16/20/25/32	Reamer (with blade)		16/20/25 20/25/32

### Ball Valve for Gas Pipe

Description	Picture	Size	DN	Description	Picture	Size	DN
Ball Valve (F/F) Working Pressure: 6.0 PSI		(1/2) "	15	Ball Valve (M/F) Working Pressure: 6.0 PSI		(1/2) "	15
		(3/4) "	19			(3/4) "	19
		1" "	25			1" "	25
		1(1/4) "	32			1(1/4) "	32
		1(1/2) "	40			1(1/2) "	40
		2" "	50			2" "	50
Ball Valve (F/F) Working Pressure: 6.0 PSI		(1/2) "	14.5	Ball Valve (M/F) Working Pressure: 6.0 PSI		(1/2) "	14.5
		(3/4) "	19			(3/4) "	19
		1" "	25			1" "	25
		1(1/4) "	32			1(1/4) "	32
		1(1/2) "	40			1(1/2) "	40
		2" "	50			2" "	50
Ball Valve (F/Flare) Working Pressure: 2.5Mpa		(3/8) "	11	Ball Valve (F/Flare) Working Pressure: 2.5Mpa		1/2*5/8	10
		(1/2) "	11			3/4*5/8	11
		(3/4) "	20				
Ball Valve (F/Flare) Working Pressure: 2.5Mpa		1/2*3/8	10	Ball Valve (F/F) Working Pressure: 2.5Mpa		(3/8) "	10
		1/2*1/2	10			(1/2) "	10
		1/2*5/8	10			(3/4) "	15
		3/4*5/8	15				
INLINE SHUT-OFF VALVES		(1/2) "	16	MULTI-WELDED COPPER TO PEX		(1/2) "	16
		(3/4) "	20				
		1" "	25				
HOSETAIL SHUT-OFF VALVES		(1/2) "	16				
		(3/4) "	20*16				

### Installation steps



1 Cut off Kingbull pipe vertically with pipe cutter, make sure that the cross section must be vertical to the axis.



2 Round and bevel the endholes and make a no-less-than-2-minimeter incline.



3 Choose the right size fitting, push the inserts into the pipe up to the baffle ring until the pipe is visible through the inspection windows, and take care not to damage the o-ring .



4 Choose the right size clamp by the mark on the moulds, matching the press fitting.



5 Open the clamp jaw, and place the fitting in the mould, ensure that baffle ring must close tightly to the mould.



6 Press, make sure the moulds are clean and close completely when pressing.