ATLANTA INDUSTRIES

SCAN & VISIT OUR WEBISTE

TÜV SÜD ISO 9001

AtlantaHDPE

High Density Polyethylene Pipes & Fittings

- Easy to Handle
- High Chemical Resistance
- Safe for Potable Water & Other Fluids
- Flexible
- Abrasion Resistance
- Lower Flow Resistance
- Tight Joints
- Light Weight
- Impact Resistance

Philippine Standard Quality Certification Mark

CERTIFIED Product Quality

LWUA

ADVANTAGES

Atlanta HDPE pipe offers a number of engineering advantages over conventional piping materials.

Ease of Handling

Atlanta HDPE pipe weighs considerably less than pipes made from conventional materials. Typically, it is only ¼ to 1/10 the weight of cast iron, steel or concrete pipes used for the same service. This affords significant savings in transportation and installation by reducing manpower and equipment needs to a minimum.

High Chemical Resistance

Atlanta HDPE pipe has replaced steel, stainless steel, cast iron and concrete piping where chemical or corrosion resistance is required. It is resistant to attack by acids, bases, salts and many hydrocarbon materials. In addition, even the most aggressive soil will not corrode Atlanta HDPE piping.

Flexible

Atlanta HDPE pipe is flexible, providing ease of installation. It can be curved, snaked, inserted or laid along natural ground contours, thereby reducing installation costs and equipment requirements.

Lowest Flow Resistance

The smooth interior of this pipe provides for higher flow design factors. The Hazen-Williams water flow coefficient for Atlanta HDPE pipe is 150 to 155, and the Manning "n" value is approximately 0.009. Resistance to scaling and corrosion allows the pipe to maintain its excellent flow properties throughout service life.

Lightweight

Can be easily handled and installed because the weight of PE pipe is just 1/7 of steel pipes.

Safe for Potable Water and Other Fluids

Because Atlanta HDPE piping does not contaminate fluid with metallic ions, it is often used in the transportation of pure materials, including deionized water. Atlanta HDPE piping materials also meet with the approval of the Bureau of Product Standards for the transport of potable water.

Impact Resistance

PE pipes doesn't break up to -80°C.

Abrasion Resistance

Atlanta HDPE pipe has smooth, tough interior surfaces which make it an excellent material for conveying a variety of abrasive slurries.

Tight Joints

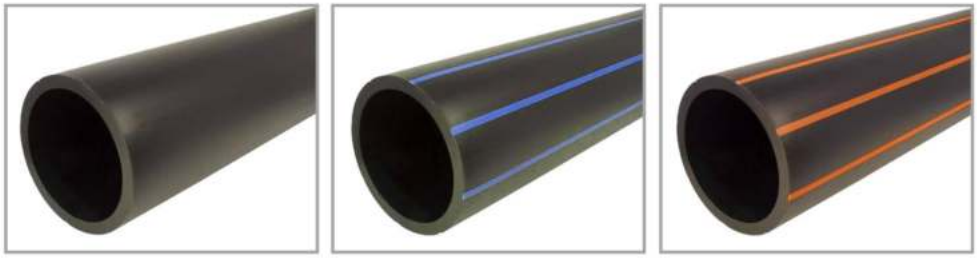
A choice of jointing systems is available depending upon the application and the size of the Atlanta HDPE pipe. These include butt fusion, electrofusion, socket fusion, extrusion welding, mechanical connectors and compression type fittings.

PHYSICAL PROPERTIES

PROPERTY	ASTM TEST	ACTUAL VALUE
Density, g/cm²	D 1505	0.926
Melt Flow Rate g/10min (max)	ASTM P1238	1.0
Environmental Stress* Cracking Resistance, (Hrs.) Condition A, B & C	D 1693	> 1500
Tensile Strength, Mpa	ISO 6259	23
Toxicity	ISO 3114	Pb - Less than 0.005 mg/L Cd - Less than 0.001 mg/L Hg - Less than 0.0005 mg/L
Modulus of Elasticity, PSI	ASTM D 638	79,190
Carbon Black	ISO 6964	2.19 ±0.25%
Thermal Stability (Oxidative Induction Time), min.	ISO 13949	82.23
Melt Flow Rate Deviation, +/- 30%	ISO 1133	-6.25%
Elongation at Break, %	ISO 6259	768%

** Testing for this is not requested by ISO 4427*

AVAILABLE WITH COLOR STRIPS

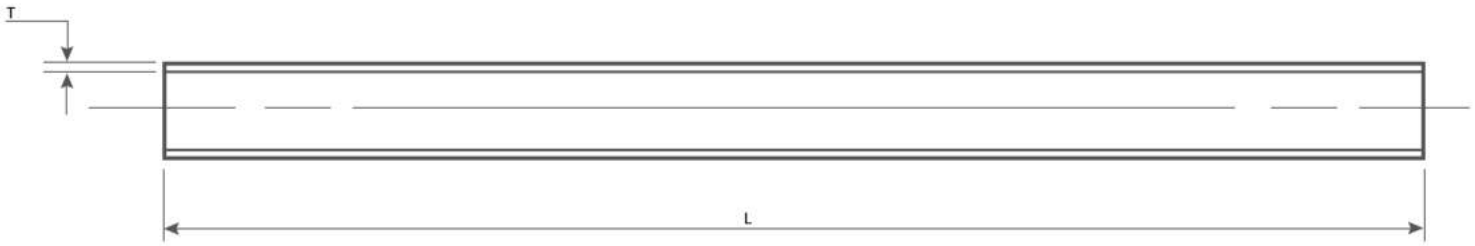


Plain Black

Black with Blue Strips
for Water Distribution

Black with Orange Strips
for Water Drainage

HDPE PIPE RANGE



APPLICATION: Potable Water Main Distribution and Service Connection System & Industrial Application.

STANDARD: Conforming to ISO R 161/1/ISO 3607 Series, SDR PR based on controlled Outside Diameter and in accordance to PNS ISO 4427-2002.

SIZES: 20mm to 630mm

JOINT METHOD: Butt Fusion, Flange Type, Compression Type, Electrofusion, Socket Fusion, Mechanical Fittings

NOMIMAL SIZE	OUTSIDE DIAMETER	STANDARD LENGTH	SDR 9	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26
			NOMINAL PRESSURE (PSI)					
			PN 20	PN 16	PN 12.5	PN 10	PN 8	PN 6.3
			290	232	181.25	145	116	87
in	mm	M	Thickness T (mm)	Thickness T (mm)	Thickness T (mm)	Thickness T (mm)	Thickness T (mm)	Thickness T (mm)
1/2	20	300	2.30	*1.90	*1.60	-	-	-
3/4	25	150	2.80	*2.30	*1.90	-	-	-
1	32	100	3.60	3.00	*2.40	*1.90	-	-
1-1/4	40	60	4.50	3.70	*3.00	*2.40	-	-
1-1/2	50	60	5.60	4.60	*3.70	*3.00	-	-
2	63	60	7.10	5.80	4.70	*3.80	-	-
2-1/2	75	60	8.40	6.80	5.60	4.50	-	-
3	90	6	10.10	8.20	6.70	5.40	4.30	**3.50
4	110	6	12.30	10.00	8.10	6.60	5.30	**4.20
6	160	6	17.90	14.60	11.80	9.50	7.70	**6.20
8	225	6	25.20	20.50	16.60	13.40	10.80	**8.60
10	280	6	31.30	25.40	20.60	16.60	13.40	**10.70
12	315	6	35.20	28.60	23.20	18.70	15.00	**12.10
14	355	6	39.70	32.20	26.10	21.10	16.90	**13.60
16	400	6	44.70	36.30	29.40	23.70	19.10	**15.30
18	450	6	50.30	40.90	33.10	26.70	21.50	**17.20
20	500	6	55.80	45.40	36.80	29.70	23.90	**19.10
22	560	6	62.22	50.80	41.20	33.20	**26.70	**21.40
24	630	6	70.00	57.20	46.30	37.40	**30.00	**24.10

Note: All (*) are based on our manufacturing standard.

*** Subject for Availability*

INJECTION MOULDED - BUTT FUSION SERIES

Moulded 90° Elbow

Nominal Size	
mm	in
315	12

Moulded 90° Elbow

Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

Moulded 45° Elbow

Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14

Moulded End Cap

Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

Moulded Tee

Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
400	16

Moulded Wye

Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12

Moulded Stub End

Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16
450	18
630	24

Moulded Coupling Reducer

Nominal Size	
mm	in
75 x 50	2-1/2 x 1-1/2
75 x 63	2-1/2 x 2
90 x 40	3 x 1-1/4
90 x 50	3 x 1-1/2
90 x 63	3 x 2
90 x 75	3 x 2-1/2
110 x 40	4 x 1-1/4
110 x 50	4 x 1-1/2
110 x 63	4 x 2
110 x 75	4 x 2-1/2
110 x 90	4 x 3
160 x 50	6 x 1-1/2

Nominal Size	
mm	in
160 x 63	6 x 2
160 x 75	6 x 2-1/2
160 x 90	6 x 3
160 x 110	6 x 4
225 x 90	8 x 3
225 x 110	8 x 4
225 x 160	8 x 6
315 x 110	12 x 4
315 x 160	12 x 6
315 x 225	12 x 8
450 x 315	18 x 12

Moulded Tee Reducer

Nominal Size	
mm	in
75 x 40	2-1/2 x 1-1/4
75 x 50	2-1/2 x 1-1/2
75 x 63	2-1/2 x 2
90 x 40	3 x 1-1/4
90 x 50	3 x 1-1/2
90 x 63	3 x 2
90 x 75	3 x 2-1/2
110 x 40	4 x 1-1/4
110 x 50	4 x 1-1/2

Nominal Size	
mm	in
110 x 63	4 x 2
110 x 63	4 x 2-1/2
110 x 75	4 x 3
110 x 90	6 x 1-1/2
160 x 50	6 x 2
160 x 75	6 x 2-1/2
160 x 90	6 x 3
160 x 110	6 x 4
225 x 90	8 x 3

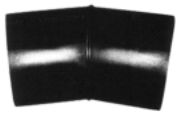
Nominal Size	
mm	in
225 x 110	8 x 4
225 x 160	8 x 6
280 x 90	10 x 3
280 x 110	10 x 4
280 x 160	10 x 6
315 x 75	12 x 2-1/2
315 x 110	12 x 4
315 x 160	12 x 6
315 x 225	12 x 8

Moulded Wye Reducer

Nominal Size	
mm	in
110 x 63	4 x 2
110 x 90	4 x 3
160 x 110	6 x 4
315 x 110	12 x 4

FABRICATED - BUTT FUSION SERIES

Fabricated 60° Elbow

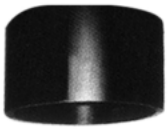


Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

Fabricated 90° Elbow

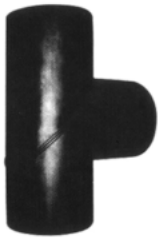
Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

Fabricated End Cap



Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16
450	18
500	20
560	22
630	24

Fabricated Tee



Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

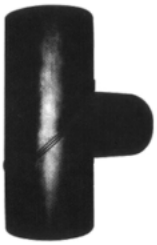
Fabricated Wye

Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

Fabricated Cross Tee Reducer

Nominal Size	
mm	in
110 x 75	4 x 2-1/2
110 x 90	4 x 3
160 x 110	6 x 4
225 x 160	8 x 6
280 x 160	10 x 6
280 x 225	10 x 8
315 x 225	12 x 8
315 x 280	12 x 10
355 x 280	14 x 10
355 x 315	14 x 12
400 x 315	16 x 12
400 x 355	16 x 14

Fabricated Tee Reducer



Nominal Size	
mm	in
110 x 75	4 x 2-1/2
110 x 90	4 x 3
160 x 110	6 x 4
225 x 160	8 x 6
280 x 160	10 x 6
280 x 225	10 x 8
315 x 225	12 x 8
315 x 280	12 x 10
355 x 280	14 x 10
355 x 315	14 x 12
400 x 315	16 x 12
400 x 355	16 x 14

Fabricated Wye Reducer

Nominal Size	
mm	in
110 x 75	4 x 2-1/2
110 x 90	4 x 3
160 x 110	6 x 4
225 x 160	8 x 6
280 x 160	10 x 6
280 x 225	10 x 8
315 x 225	12 x 8
315 x 280	12 x 10
355 x 280	14 x 10
355 x 315	14 x 12
400 x 315	16 x 12
400 x 355	16 x 14

ELECTROFUSION SERIES

90° Elbow

Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
315	12

45° Elbow

Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
315	12

Tee

Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
315	12

Tee Reducer

Nominal Size	
mm	in
25 x 20	3/4 x 1/2
32 x 20	1 x 1/2
32 x 25	1 x 3/4
40 x 20	1-1/4 x 1/2
40 x 25	1-1/4 x 3/4
40 x 32	1-1/4 x 1
50 x 20	1-1/2 x 1/2
50 x 25	1-1/2 x 3/4
50 x 32	1-1/2 x 1
50 x 40	1-1/2 x 1-1/4
63 x 20	2 x 1/2
63 x 25	2 x 3/4
63 x 32	2 x 1
63 x 40	2 x 1-1/4
63 x 50	2 x 1-1/2
75 x 63	2-1/2 x 2
90 x 40	3 x 1-1/4
90 x 50	3 x 1-1/2
90 x 63	3 x 2
110 x 40	4 x 1-1/4
110 x 50	4 x 1-1/2
110 x 63	4 x 2
110 x 90	4 x 3
160 x 50	6 x 1-1/2
160 x 63	6 x 2
160 x 90	6 x 3
160 x 110	6 x 4

Coupling

Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16
450	18
500	20
560	22
630	24

Saddle

Nominal Size	
mm	in
75 x 63	2-1/2 x 2
90 x 63	3 x 2
110 x 63	4 x 3
160 x 110	6 x 4
315 x 160	12 x 4

End Cap

Nominal Size	
mm	in
32	1
40	1-1/4
50	1-1/2
63	2

NON LOOSE COMPONENT SERIES

Male Threaded Adaptor

Size D (mm) x G (inch)
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 1/2"
32 x 3/4"
32 x 1"
*40 x 1"
*40 x 1-1/4"
*40 x 1-1/2"
*50 x 1-1/4"
*50 x 1-1/2"
*50 x 2"
*63 x 1-1/2"
*63 x 2"
*63 x 2-1/2"
*75 x 2-1/2"
*90 x 3"
*110 x 4"

** BSP Taper Male Threaded*

Female Threaded Adaptor

Size D (mm) x G (inch)
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 3/4"
32 x 1"
*40 x 1"
*40 x 1-1/4"
*40 x 1-1/2"
*50 x 1-1/4"
*50 x 1-1/2"
*63 x 2"
*75 x 2"
*75 x 2-1/2"
*90 x 3"
*110 x 4"

** Come With Reinforced Stainless Steel Ring Cap*
** BSP Taper Male Threaded*

End Cap

Size mm
20
25
32
40
50
63
75
90
110

Straight Coupler

Size mm
20 x 20
25 x 25
32 x 32
40 x 40
50 x 50
63 x 63
75 x 75
90 x 90
110 x 110

Female Tee

Size D (mm) x G (inch)
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 3/4"
32 x 1"
*40 x 1"
*40 x 1-1/4"
*40 x 1-1/2"
*50 x 1-1/4"
*50 x 1-1/2"
*50 x 2"
*63 x 2"
*75 x 2"
*75 x 2-1/2"
*90 x 3"
*110 x 4"

** Come With Reinforced Stainless Steel Ring Cap*
** BSP Taper Male Threaded*

Reducing Coupler

Size mm
25 x 20
32 x 20
32 x 25
40 x 20
40 x 25
40 x 32
50 x 20
50 x 25
50 x 32
50 x 40
63 x 25
63 x 32
63 x 40
63 x 50
75 x 50
75 x 63
90 x 63
90 x 75

Male Tee

Size mm
20
25
32
*40
*50
*63
*75
*90
*110

** BSP Taper Male Threaded*

Equal Tee

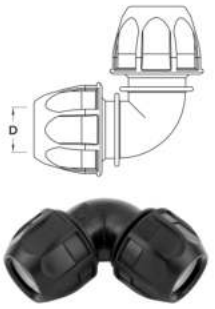
Size mm
20
25
32
40
50
63
75
90
110

NON LOOSE COMPONENT SERIES

Reducing Tee

Size D x D2 (mm)
25 x 20
32 x 20
32 x 25
40 x 25
40 x 32
50 x 20
50 x 25
50 x 32
50 x 40
63 x 25
63 x 32
63 x 40
63 x 50
75 x 50
75 x 63
90 x 63
90 x 75

Equal Elbow 90°



Size mm
20
25
32
40
50
63
75
90
110

Reducing Elbow

Size D (mm) x D1 (mm)
25 x 20
32 x 20
32 x 25
50 x 25
50 x 32

Male Elbow 90°

Size D (mm) x G (inch)
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 3/4"
32 x 1"
40 x 1"
40 x 1-1/4"
40 x 1-1/2"
50 x 1-1/4"
50 x 1-1/2"
63 x 2"
75 x 2"
75 x 2-1/2"
90 x 2"

** BSP Taper Male Threaded*

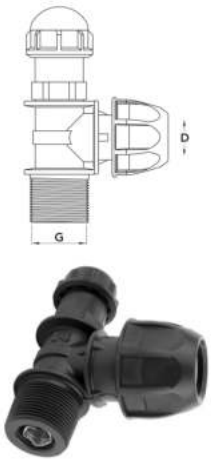
Female Elbow 90°

Size D (mm) x G (inch)
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 3/4"
32 x 1"
40 x 1"
40 x 1-1/4"
50 x 1-1/4"
50 x 1-1/2"
63 x 2"
75 x 2"
75 x 2-1/2"
90 x 2"

** Come With Reinforced Stainless Steel Ring Cap*
** BSP Taper Male Threaded*

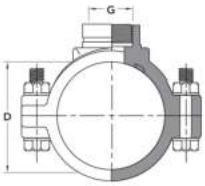
Gate Valve

Size mm
20
25
32



Tapping Ferrule (PE Pipe Connector)

Size G (inch) x D (mm)
1" x 20
1" x 25
1" x 32
1-1/4" x 20
1-1/4" x 25
1-1/4" x 32



Saddle Clamp

Size D (mm) x G (inch)	No. Bolt & Nuts
63mm x 1/2"	4
63mm x 3/4"	4
63mm x 1"	4
63mm x 1-1/4"	4
75mm x 1/2"	4
75mm x 3/4"	4
75mm x 1"	4
75mm x 1-1/4"	4
75mm x 1-1/2"	4
90mm x 1/2"	4
90mm x 3/4"	4
90mm x 1"	4
110mm x 1/2"	4
110mm x 3/4"	4
110mm x 1"	4
110mm x 1-1/4"	4
110mm x 1-1/2"	4
110mm x 2"	4

Rubber Gasket

O-Ring

PE - PE Connection

Branch Outlet Size mm
20
25
32

ATLANTA BUTT FUSION WELDING MACHINES

Atlanta BF Machine 160/4 + Handle

Technical Parameters	
Model	SHDS164A4
Welding Range (mm)	50, 63, 75, 90, 110, 125, 140, 160
Heating Plate Max Temp.	270°C
Heating Plate Surface Diff. (170°-250°C)	≤±5°C
Operating Voltage	AC 220V
Heating Plate Power	1.5 kW
Milling Cutter Power	0.7 kW
Total Power	2.2 kW
Weight	48 kg

Atlanta BF Machine 200/4 + Handle

Technical Parameters	
Model	SHDS164A4
Welding Range (mm)	90, 110, 125, 140, 160, 180, 200
Heating Plate Max Temp.	270°C
Heating Plate Surface Diff. (170°-250°C)	≤±5°C
Operating Voltage	AC 220V
Heating Plate Power	1.5 kW
Milling Cutter Power	0.7 kW
Total Power	2.2 kW
Weight	64 kg

Atlanta BF Machine SHD 250 Hydraulic

Technical Parameters	
Model	SHD 250
Welding Scope (mm)	63, 75, 90, 110, 125, 140,160, 180, 200, 225, 250
Highest Temperature Heating Plate	270°C
Temperature of 170 ~250°C Heating Plate Surface	≤±5°C
Pressure Regulating Range	0 - 6.3 Mpa
Working Voltage	220V
Heating Plate Power	2 kW
Milling Power	1.1 kW
Hydraulic Power Station	0.75 kW
Lifting Power	none
Total Power	3.85 kW
Weight	143 kg

Atlanta BF Machine SHD 315 Hydraulic

Technical Parameters	
Model	SHD 315
Welding Scope (mm)	90, 110, 125,140,160, 180, 200, 225, 250, 280, 315
Highest Temperature Heating Plate	270°C
Temperature of 170 ~250°C Heating Plate Surface	≤±5°C
Pressure Regulating Range	0 - 6.3 Mpa
Working Voltage	220V
Heating Plate Power	2 kW
Milling Power	1.1 kW
Hydraulic Power Station	0.75 kW
Lifting Power	none
Total Power	4.85 kW
Weight	216 kg

ATLANTA BUTT FUSION AND ELECTROFUSION MACHINES

Atlanta BF Machine SHD 450 Hydraulic

Technical Parameters	
Model	SHD 450
Welding Scope (mm)	200, 225, 250, 280, 315, 355, 400, 450
Highest Temperature Heating Plate	270°C
Temperature of 170 ~250°C Heating Plate Surface	≤±7°C
Pressure Regulating Range	0 - 8 Mpa
Working Voltage	380V
Heating Plate Power	5.38 kW
Milling Power	1.5 kW
Hydraulic Power Station	1.5 kW
Lifting Power	0.25 kW (optional)
Total Power	8.38 kW
Weight	560 kg

Atlanta BF Machine SHD 630 Hydraulic

Technical Parameters	
Model	SHD 630
Welding Scope (mm)	315, 355, 400, 450, 500, 560, 630
Highest Temperature Heating Plate	270°C
Temperature of 170 ~250°C Heating Plate Surface	≤±7°C
Pressure Regulating Range	0 - 8 Mpa
Working Voltage	380V
Heating Plate Power	9.35 kW
Milling Power	1.5 kW
Hydraulic Power Station	1.5 kW
Lifting Power	0.25 kW (optional)
Total Power	12.35 kW
Weight	780 kg

Atlanta EF Machine SHD 3.5KW

Technical Parameters	
Model	SHD 3.5KW
Input Voltage	48V±10%, 220V±20% or 380V±20%
Output Voltage	46 - 65 Hz
Output Power	8 - 135 VAC
Control Mode	Constant Volt / Constant Current / Constant Power
Recording Number of Data	500
Time Control Precision	≤±0.01%
Temperature Measuring Precision	±0.5°C
Data Output Port	Rs232
Packing Size (mm)	330 x 200 x 270

Atlanta EF Machine SHD 8KW

Technical Parameters	
Model	SHD 8KW
Input Voltage	48V±10%, 220V±20% or 380V±20%
Output Voltage	40 - 65 Hz
Output Power	8 - 135 VAC
Control Mode	Constant Volt / Constant Current / Constant Power
Recording Number of Data	500
Time Control Precision	≤±0.01%
Temperature Measuring Precision	±0.5°C
Data Output Port	Rs232
Packing Size (mm)	330 x 200 x 270

Atlanta EF Machine SHD 12KW

Technical Parameters	
Model	SHD 12KW
Input Voltage	48V±10%, 220V±20% or 380V±20%
Output Voltage	46 - 65 Hz
Output Power	8 - 135 VAC
Control Mode	Constant Volt / Constant Current / Constant Power
Recording Number of Data	500
Time Control Precision	≤±0.01%
Temperature Measuring Precision	±0.5°C
Data Output Port	Rs232
Packing Size (mm)	330 x 200 x 270

INSTALLATION

BUTT FUSION WELDING

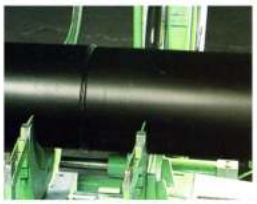
1. Wipe pipe ends inside and to remove dirt, oil, grease and other foreign materials.

2. Square the end of each pipe section to be fused by using the facing tool of the fusion machine. Remove cuttings and burrs from pipe ends.

3. Check the line-up of pipe ends in the fusion machine to see the that the pipe ends meet squarely and completely over the entire surface to be fused.

4. Insert the heater plate between the aligned pipe ends. Bring and hold the pipe ends in contact with the heater plate. Maintain contact and allow the pipe to heat and soften.

5. Remove heater plate from pipe end. Bring the heated pipe ends together with a firm pressure. Pressure is necessary to cause the heated material to flow together, thus giving a fusion bead flash around the entire circumference of the pipe.



6. Allow the joint to cool and solidify until the bead feels hard. Inspect the joint for a uniform non-porous appearance. If the joints appear faulty, simply cut the joints and repeat the procedure.

PUSH FIT FITTING INSTALLATION

1. Cutting The Pipe
Inspect and remove any damages found within the surface of the pipe. Cut the squarely with the use of a pipe cutter; Ensure that the end of the pipe is even & flat.

2. Mark The Pipe To Ensure Its Insertion Depth
Unscrew & loosen the nut in preparation for pipe insertion.

3. Pipe Insertion
Insert the pipe by pushing it into the fitting until the end of the pipe reaches the stopper, this must be done until the pipe can no longer be pushed inwards.
Note: Check if the pipe is completely inserted within the fitting by inspecting the insertion depth marking.

4. Tightening the Nut
Carefully tighten the nut by twisting the nut clockwise.

5. Fully Installed
The whole installation process is complete. Check the pipe connection.

AtlantaHDPE
High Density Polyethylene Pipes & Fittings

CHEMICAL RESISTANCE

REAGANT	70°F (21°C)	140°F (60°C)
Acetic Acid* 1-10%	S	S
Acetic Acid* 10-60%	S	M
Acetic Acid* 80-100%	S	M
Acetone	M	U
Acrylic Emulsions*	S	S
Aluminum Chloride-Dilute	S	S
Aluminum Chloride Conc.	S	S
Aluminum Fluoride Conc.	S	S
Aluminum Sulfate Conc.	S	S
Alums (All Types) Conc.	S	S
Ammonia 100% Dry Gas	S	S
Ammonium Carbonate	S	S
Ammonium Chloride Sat'd	S	S
Ammonium Fluoride 20%	S	S
Ammonium Hydroxide 0.888 S.Q	S	S
Ammonium Metaphospate Sat'd	S	S
Ammonium Nitrate Sat'd	S	S
Ammonium Ferrous Sulfate Sat'd	S	S
Ammonium Sulfate Sat'd	S	S
Ammonium Sulfide Sat'd	S	S
Ammonium Thiocyanate Sat'd	S	S
Amyl Acetate	M	U
Amyl Alcohol* 100%	S	S
Amyl Chloride 100%	N	U
Aniline 100%	S	N
Antimony Chloride	S	S
Aqua Regia	U	U
Barium Carbonate Sat'd	S	S
Barium Chloride	S	S
Barium Hydroxide	S	S
Barium Sulfate Sat'd	S	S
Barium Sulfide Sat'd	S	S
Beer	S	S
Benzine	M	U
Benzene Sulfonic Acid*	S	S
Bismuth Carbonate Sat'd	S	S
Bleach Lye 10% Black Liquor	S	S
Borax Cold Sat'd	S	S
Boric Acid Dilute	S	S
Boric Acid Conc.	S	S
Bromic Acid 10%	S	S
Bromine Liquid 100%	S	U
Butanediol* 10%	M	S
Butanediol* 60%	S	S
Butanediol* 100%	S	S
Butyl Alcohol* 100%	S	S
Calcium Bisulfide	S	S
Calcium Carbonate Sat'd	S	S
Calcium Chlorate Sat'd	S	S
Calcium Chloride Sat'd	S	S
Calcium Hydroxide	S	S
Calcium Hyphochlorite Bich Sol.	S	S
Calcium Nitrate 50%	S	S
Calcium Sulfate	S	S
Camphor Oil	N	U
Carbon Dioxide 100% Dry	S	S
Carbon Dioxide 100% Wet	S	S
Carbon Dioxide Cold Sat'd	S	S
Carbon Disulphide	N	U
Carbon Monoxide	S	S
Carbon Tetrachloride	M	U
Carbonic Acid	S	S
Castor Oil* Conc.	S	S
Chloride Dry Gas 100%	S	M
Chloride Moist Gas	M	U

REAGANT	70°F (21°C)	140°F (60°C)
Chloride Liquid	M	U
Chlorobenzene	M	U
Chloroform	M	U
Chlorosulfonic Acid 100%	M	U
Chrome Alum Sat'd	S	S
Chromic Acid 20%	S	S
Chromic Acid Up to 50%	S	S
Chromic Acid and Sulfuric Acid	M	U
Cider*	M	U
Citric Acid Sat'd	S	S
Coconut Oil Alcohols*	S	S
Cola Concentrates*	S	S
Copper Chloride Sat'd	S	S
Copper Cyanide Sat'd	S	S
Copper Fluoride 2%	S	S
Copper Nitrate Sat'd	S	S
Copper Sulfate Dilute	S	S
Copper Sulfate Sat'd	S	S
Cottonseed Oil*	S	S
Cuprous Chloride Sat'd	S	S
Cychohexanol*	S	S
Cyclohexanone*	M	U
Detergents Synthetic*	S	S
Developers, Photographic	S	S
Dextrin Sat'd	S	S
Dextrose Sat'd	S	S
Dibutyphthalate	S	M
Disodium Phosphate	S	S
Diazo Salts	S	S
Diethylene Glycol*	S	S
Diglycolic Acid*	S	S
Dimethylamine	M	U
Emulsions, Photogrpahic*	S	S
Ethyl Acetate 100%	M	U
Ethyl Alcohol* 100%	S	S
Ethyl Alcohol* 35%	S	S
Ethyl Butyrate	S	U
Ethyl Chloride	M	U
Ethyl Ether	U	U
Ethylene Chloride	U	U
Ethylene Chlorohydrin	U	U
Ethylene Dichloride	M	U
Ethylne Glycol*	S	S
Ferric Chloride Sat'd	S	S
Ferric Nitrate Sat'd	S	S
Ferrous Chloride Sat'd	S	S
Ferrous Sulphate	S	S
Fish Solubles*	S	S
Fluboric Acid	S	S
Flourine	S	U
Fluosilicic Acid 32%	S	S
Fluosilicic Acid Conc.	S	S
Formaldehyde* 40%	S	N
Formic Acid* 0-20%	S	S
Formic Acid* 20-50%	S	S
Formic Acid* 100%	S	S
Fructose Sat'd	S	S
Fruit Pulp	S	S
Fuel Oil	S	U
Furfural 100%	M	U
Furfuryl Alcohol	M	U
Gallic Acid* Sat'd	S	S
Gasoline	M	U
Gin	S	U
Glucose	S	S

REAGANT	70°F (21°C)	140°F (60°C)
Glycerine*	S	S
Glycol*	S	S
Glycolic Acid* 30%	S	S
Grade Sugar Sat'd Aq.	S	S
Hexanol, Tert.*	S	S
Hydrobromic Acid 50%	S	S
Hydrocyanic Acid Sat'd	S	S
Hydrochloric Acid 10%	S	S
Hydrochloric Acid 30%	S	S
Hydrochloric Acid 35%	S	S
Hydrochloric Acid Conc.	S	S
Hydrofluoric Acid 40%	S	S
Hydrofluoric Acid 60%	S	S
Hydrofluoric Acid 75%	S	S
Hydrogen 100%	S	S
Hydrogen Bromide 10%	S	S
Hydrogen Chlorine Gas Dry	S	S
Hydrogen Peroxide 30%	S	S
Hydrogen Peroxide 90%	S	M
Hydrogen Phosphide 100%	S	S
Hydroquinone	S	S
Hydrogen Sulfide	S	S
Hypochlorus Acid Conc.	S	S
Inks*	S	S
Iodine (Alc. Sol.) Conc.	S	U
Lactic Acid 10%	S	S
Lactic Acid 90%	S	S
Latex	S	S
Lead Acetate Sat'd	S	S
Lube Oil	S	M
Magnesium Carbonate Sat'd	S	S
Magnesium Chloride Sat'd	S	S
Magnesium Hydroxide Sat'd	S	S
Magnesium Nitrate Sat'd	S	S
Magnesium Sulphate Sat'd	S	S
Mercuric Chloride Sat'd	S	S
Mercuric Cyanide Sat'd	S	S
Mercurous Nitrate Sat'd	S	S
Mercury	S	S
Methyl Alcohol 100%	S	S
Methyl Bromide	M	U
Methyl Chloride	M	U
Methyl Ethyl Ketone 100%	M	U
Methylsulfuric Acid*	S	S
Methylene Chloride 100%	M	U
Milk	S	S
Mineral Oils	S	U
Molasses Comm.	S	S
Nickel Chloride Sat'd	S	S
Nickel Nitrate Conc.	S	S
Nickel Sulfate Sat'd	S	S
Nicotine Dilute	S	S
Nicotinic Acid*	S	S
Nitric Acid 0-30%	S	S
Nitric Acid 30-50%	S	M
Nitric Acid 70%	S	M
Nitric Acir 95-98%	U	S
Nitrobenzene 100%	U	U
Octyl Cresol	S	U
Oils and Fats	S	U
Oleic Acid Conc.	S	U
Oleum Conc.	U	U
Orange Extract	S	S
Oxalic Acid Dilute	S	S
Oxalic Acid Sat'd	S	S

S - Satisfactory
U - Unsatisfactory
M - Marginal
N - Not Known

Some Reagents are marked with an asterisk (*). Although Atlanta HDPE Pipe is chemically resistant to these agents, excess temperatures and pressures can under certain conditions, lead to stress cracking. On Reagents marked marginal, chemical attacks will be recognized by a loss of physical properties of the pipe.

CHEMICAL RESISTANCE

REAGANT	70°F (21°C)	140°F (60°C)
Ozone 100%	S	U
Perchloric Acid 10%	S	S
Petroleum Ether	U	U
Phenol 90%	U	U
Phosphoric Acid Up to 30%	S	S
Phosphoric Acid Over 30%	S	S
Phosphoric Acid 90%	S	S
Phosphorous (Yellow) 100%	S	N
Phosphorous Pentoxide 100%	S	N
Photographic Solutions	S	S
Pickling Baths		
Sulfuric Acid*	S	S
Hydrochloric Acid*	S	S
Sulfuric- Nitric*	S	U
Plating Solutions		
Brass	S	S
Cadmium*	S	S
Chromium*	N	N
Copper*	S	S
Gold*	S	S
Indium*	S	S
Lead*	S	S
Nickel*	S	S
Rhodium*	S	S
Silver*	S	S
Tin*	S	S
Zinc*	S	S
Potassium Bicarbonate Sat'd	S	S
Potassium Borate 1%	S	S
Potassium Bromate 10%	S	S
Potassium Bromide Sat'd	M	S
Potassium Carbonate	S	S
Potassium Chlorate Sat'd	S	S
Potassium Chloride Sat'd	S	S
Potassium Chromate 40%	S	S
Potassium Cyanide Sat'd	S	S
Potassium Dichromate 40%	S	S
Potassium Ferricyanide Sat'd	S	S
Potassium Ferrocyanide Sat'd	S	S
Potassium Fluoride	S	S

REAGANT	70°F (21°C)	140°F (60°C)
Potassium Hydroxide 20%	S	S
Potassium Hydroxide Conc.	S	S
Potassium Nitrate Sat'd	M	S
Potassium Perborate Sat'd	S	S
Potassium Perchloride 10%	S	S
Potassium Sulfate Conc.	S	S
Potassium Sulfide Conc.	S	S
Potassium Sulfite Conc.	S	S
Potassium Persulfate Sat'd	S	S
Propargyl Alcohol*	S	S
Propyl Alcohol*	S	S
Propylene Dichloride 100%	S	S
Propylene Glycol*	S	S
Rayon Coagulating Bath*	S	S
Sea Water	S	S
Selenic Acid	S	S
Shortening*	S	S
Silicic Acid	S	S
Silver Nitrate Solution	S	S
Soap Solution* (Any Conc'n)	S	S
Sodium Acetate Sat'd	S	S
Sodium Benzoate 35%	S	S
Sodium Bicarbonate Sat'd	S	S
Sodium Bisulfate Sat'd	S	S
Sodium Bisulfite Sat'd	S	S
Sodium Borate	S	S
Sodium Bromide Dilute Solution	S	S
Sodium Carbonate Conc.	S	S
Sodium Carbonate	S	S
Sodium Chlorate Sat'd	S	S
Sodium Chloride Sat'd	S	S
Sodium Cyanide	S	S
Sodium Dichromate Sat'd	S	S
Sodium Ferricyanide	S	S
Sodium Ferrocyanide Sat'd	S	S
Sodium Fluoride Sat'd	S	S
Sodium Hydroxide Conc.	S	S
Sodium Hypochlorite	S	S
Sodium Nitrate	S	S
Sodium Sulfate	S	S

REAGANT	70°F (21°C)	140°F (60°C)
Sodium Sulfide 25%	S	S
Sodium Sulfide Sat'd Solution	S	S
Sodium Sulfite Sat'd	S	S
Stannous Chloride Sat'd Solution	S	S
Stannic Chloride Sat'd	S	S
Starch Solution* Sat'd	S	S
Stearic Acid 100%	S	S
Sulfuric Acid 0-50%	N	S
Sulfuric Acid 70%	S	M
Sulfuric Acid 80%	S	U
Sulfuric Acid 96%	M	U
Sulfuric Acid 98%	M	U
Sulfuric Acid Fuming	U	U
Sulfurous Acid	S	S
Tallow	S	M
Tannic Acid* 10%	S	S
Tanning Extracts Comm.	S	S
Tartaric Acid Sat'd	N	N
Tetrahydrofurane	N	N
Titanium Tetrachloride Sat'd	S	N
Toluene	M	U
Transformer Oil	S	M
Trisodium Phosphate Sat'd	S	S
Trichloroethylene	U	U
Urea Up to 30%	S	S
Urine	S	S
Vinegar Comm.	S	S
Vanilla Extract*	S	S
Wetting Agents*	S	S
Whiskey*	S	N
Wines	S	S
Xylene	M	U
Yeast	S	S
Zinc Chloride Sat'd	S	S
Zinc Sulfate Sat'd	S	S

PROJECTS

PERIGRINE PROJECT
Global City, Clark, Pampanga

PROJECTS

ROCKWELL 205 SANTOLAN
Boni Serrano Ave., Quezon City


HDPE IRRIGATION SYSTEM
Unisan, Quezon Province


PHILIPPINE ARENA
Albaquerque, Bulacan


TOLEDO | BATKINGS PROJECT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