5DRAGON
Construction Corporation

FOR INQUIRIES

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5DRAGON
Construction Corporation

SDR PIPES

STRENGTH THAT RUNS DEEP



SDR PIPES

ADVANTAGES:



EASE HANDLING

5Dragon HDPE Pipes are lightweight and easy to transport and install, reducing labor and installation costs.



HIGH CHEMICAL RESISTANCE

5Dragon HDPE Pipes resist corrosion, chemicals, acids, and harsh environmental conditions for long-lasting performance.



FLEXIBLE DESIGNS

offer excellent flexibility, allowing easier installation even on uneven ground conditions.



LOW FLOW RESISTANCE

HDPE Pipes feature smooth inner surfaces that ensure efficient water flow and reduced pressure loss.



LIGHTWEIGHT CONSTRUCTION

HDPE Pipes are much lighter than traditional metal pipes, making handling faster and more efficient.



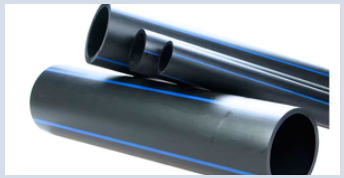
SAFE FOR PORTABLE WATER

5Dragon HDPE Pipes are safe for clean water applications and maintain water quality during transport.



ABRASION RESISTANCE

5Dragon HDPE Pipes have durable inner surfaces that resist wear and abrasion for long-term reliability.



IMPACT RESISTANCE

5Dragon HDPE Pipes are highly durable and resistant to cracking, impact, and extreme conditions.



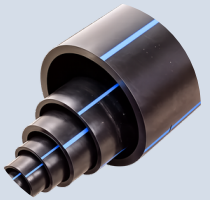
TIGHT AND LEAK FREE JOINTS

HDPE Pipes support strong fusion connections that provide secure and leak-free performance.

AVAILABLE COLORS



PLAIN BLACK



BLACK WITH BLUE STIPES

HDPE SIZE RANGE

NOMINAL 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

NEW HDPE LARGE DIAMETER SIZES

24	710	6	-	64.50	52.20	42.10	-	27.20
32	800	6	-	72.60	58.80	47.40	-	30.60
36	900	6	-	81.70	66.20	53.30	-	34.40
40	1000	6	-	90.20	72.50	59.30	-	38.20

INJECTION MOULDED



90 DEG ELBOW

Nominal Size	
mm	in
315	12



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



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



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



45 DEG 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



90 DEG 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

INJECTION 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



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



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

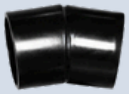


WYE

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

FABRICATED **BUTT FUSION SERIES**

60 DEG ELBOW



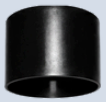
Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

90 DEG 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

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 **BUTT FUSION SERIES**

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



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

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

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

ELECTROFUSION SERIES

90 DEG 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 DEG 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

ELECTROFUSION SERIES

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

END CAP



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

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

EQUAL TEE



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

MALE TEE



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

NON-LOOSE COMPONENT SERIES

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"

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"

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

END CAP



Size mm
20
25
32
40
50
63
75
90
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"

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

NON-LOOSE COMPONENT SERIES

NON-LOOSE COMPONENT SERIES

REUCING 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 DEG



Size mm
20
25
32
40
50
63
75
90
110

MALE ELBOW 90 DEG



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"

FEMALE ELBOW 90 DEG



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"

PE CONNECTION



Branch Outlet Size mm
20
25
32

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

REDUCING ELBOW



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

HOW TO PROPERLY INSTALL

INSTALLING

BUTT FUSION WELDING



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



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



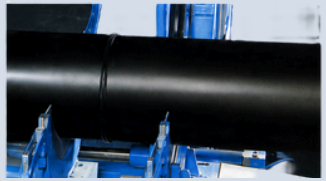
Check the line-up of pipe ends in the fusion machine to ensure that the pipe ends meet squarely and completely over the entire surface to be fused.



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.



Remove the heater plate from the pipe ends. Bring the heated pipe ends together with 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.



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.

APPLICATION OF SDR PIPES



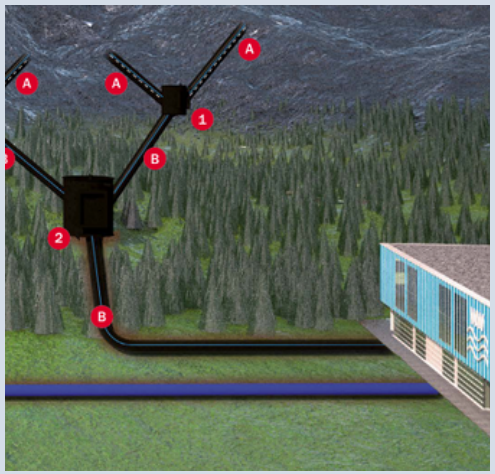
IRRIGATION SYSTEM

SDR pipes are ideal for irrigation projects because they are durable, leak-resistant, cost-effective, and provide efficient long-term water distribution for agricultural use.



WATER DISTRIBUTION LINES

SDR pipes improve water distribution systems by providing durable and leak-resistant pipelines that maintain consistent water pressure, reduce water loss, lower maintenance costs, and ensure reliable long-term water delivery.





INDUSTRIAL USE

SDR pipes are beneficial for industrial use because they are durable, corrosion-resistant, and capable of handling high-pressure applications, ensuring efficient fluid transport, lower maintenance costs, and reliable long-term performance.