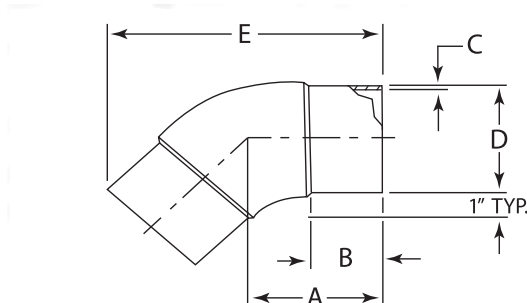


Butt 45 Degree Elbows

Elongated



Molded of
PE 100/4710/3408
Black
CODE 113

SDR 17 (Standard Dimension Ratio) 125 PSI (Working Pressure as 73.4 F)

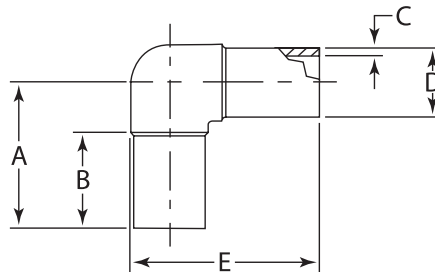
Nominal Diameter (inch)	A (inch)	B (inch)	C (inch) Wall	D (inch) OD	E (inch)	Weight (lbs.)	Product Code	Box Quantities
2" IPS	3.23	2.64	0.14	2.375	6.38	0.23	110 0002 17	20
3" IPS	4.72	3.86	0.206	3.5	9.33	0.72	110 0003 17	6
4" IPS	5.31	4.21	0.264	4.5	10.63	1.32	110 0004 17	3
6" IPS	6.89	5.35	0.39	6.625	14.09	3.77	110 0006 17	4
8" IPS	8.46	6.54	0.508	8.625	17.48	8.03	110 0008 17	1
10" IPS	10.04	7.64	0.633	10.75	20.94	14.44	110 0010 17	2
12" IPS	10.63	7.8	0.75	12.75	22.64	21.3	110 0012 17	1

SDR 11 (Standard Dimension Ratio) 200 PSI (Working Pressure as 73.4 F)

Nominal Diameter (inch)	A (inch)	B (inch)	C (inch) Wall	D (inch) OD	E (inch)	Weight (lbs.)	Product Code	Box Quantities
¾" IPS	2.28	2.05	0.095	1.05	4.29	0.05	110 0075 11	40
1" IPS	2.48	2.17	0.119	1.315	4.69	0.08	110 0001 11	30
1¼" IPS	2.83	2.44	0.151	1.66	5.31	0.14	110 0125 11	15
1½" IPS	3.07	2.64	0.173	1.9	5.91	0.21	110 0150 11	25
2" IPS	3.23	2.64	0.216	2.375	6.38	0.35	110 0002 11	20
3" IPS	4.72	3.86	0.318	3.5	9.33	1.07	110 0003 11	6
4" IPS	5.31	4.21	0.409	4.5	10.63	2	110 0004 11	3
6" IPS	6.89	5.35	0.603	6.625	14.09	5.55	110 0006 11	4
8" IPS	8.46	6.54	0.785	8.625	17.48	11.64	110 0008 11	1
10" IPS	10.04	7.64	0.978	10.75	20.94	21.3	110 0010 11	2
12" IPS	10.63	7.8	1.16	12.75	22.64	31.84	110 0012 11	1

Butt 90 Degree Elbows

Elongated



Molded of
PE 100/4710/3408
Black
CODE 113

SDR 17 (Standard Dimension Ratio) 125 PSI (Working Pressure as 73.4 F)

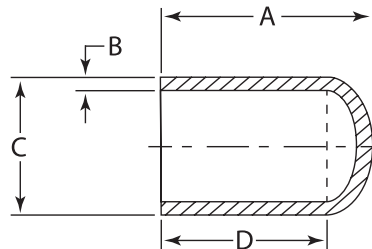
Nominal Diameter (inch)	A (inch)	B (inch)	C (inch) Wall	D (inch) OD	E (inch)	Weight (lbs.)	Product Code	Box Quantities
2" IPS	4.25	2.95	0.14	2.375	5.44	0.28	113 0002 17	14
3" IPS	5.91	4.06	0.206	3.5	7.66	0.8	113 0003 17	5
4" IPS	6.89	4.53	0.264	4.5	9.14	1.64	113 0004 17	6
6" IPS	9.06	5.63	0.39	6.625	12.37	4.8	113 0006 17	2
8" IPS	11.81	7.2	0.508	8.625	16.13	10.05	113 0008 17	1
10" IPS	13.78	8.27	0.633	10.75	19.15	18.33	113 0010 17	2
12" IPS	14.96	8.46	0.75	12.75	21.33	27.47	113 0012 17	1

SDR 11 (Standard Dimension Ratio) 200 PSI (Working Pressure as 73.4 F)

Nominal Diameter (inch)	A (inch)	B (inch)	C (inch) Wall	D (inch) OD	E (inch)	Weight (lbs.)	Product Code	Box Quantities
¾" IPS	2.68	2.05	0.095	1.05	3.2	0.05	113 0075 11	40
1" IPS	2.91	2.17	0.119	1.315	3.57	0.09	113 0001 11	25
1 ¼" IPS	3.35	2.44	0.151	1.66	4.18	0.16	113 0125 11	15
1 ½" IPS	3.7	2.64	0.173	1.9	4.65	0.22	113 0150 11	10
2" IPS	4.25	2.95	0.216	2.375	5.44	0.43	113 0002 11	14
3" IPS	5.91	4.06	0.318	3.5	7.66	1.25	113 0003 11	5
4" IPS	6.89	4.53	0.409	4.5	9.14	2.42	113 0004 11	6
6" IPS	9.06	5.63	0.603	6.625	12.37	6.76	113 0006 11	2
8" IPS	11.81	7.2	0.785	8.625	16.13	15.08	113 0008 11	1
10" IPS	13.78	8.27	0.978	10.75	19.15	27.06	113 0010 11	2
12" IPS	14.96	8.46	1.16	12.75	21.33	41.05	113 0012 11	1

Butt End Caps

Elongated



Molded of
PE 100/4710/3408
Black
CODE 114

SDR 17 (Standard Dimension Ratio) 125 PSI (Working Pressure at 73.4 °F)

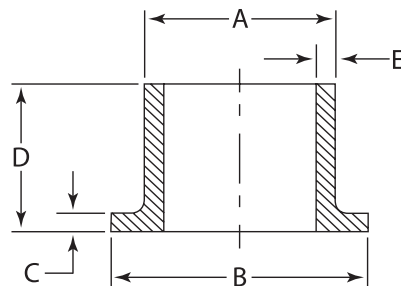
Nominal Diameter (inch)	A (inch)	B (inch) Wall	C (inch) OD	D (inch)	Weight (lbs.)	Product Code	Box Quantities
2" IPS	3.23	0.14	2.375	2.52	0.12	114 0002 17	40
3" IPS	4.72	0.206	3.5	3.7	0.39	114 0003 17	16
4" IPS	5.31	0.264	4.5	3.98	0.71	114 0004 17	10
6" IPS	6.89	0.39	6.625	4.84	1.98	114 0006 17	4
8" IPS	8.66	0.508	8.625	5.83	4.23	114 0008 17	1
10" IPS	9.84	0.633	10.75	6.3	7.53	114 0010 17	2
12" IPS	11.77	0.75	12.75	7.52	12.4	114 0012 17	1

SDR 11 (Standard Dimension Ratio) 200 PSI (Working Pressure at 73.4 °F)

Nominal Diameter (inch)	A (inch)	B (inch) Wall	C (inch) OD	D (inch)	Weight (lbs.)	Product Code	Box Quantities
¾" IPS	2.05	0.095	1.05	1.77	0.02	114 0075 11	100
1" IPS	2.2	0.119	1.315	1.77	0.04	114 0001 11	70
1¼" IPS	2.52	0.151	1.66	1.99	0.07	114 0125 11	50
1½" IPS	2.83	0.173	1.9	2.2	0.1	114 0150 11	35
2" IPS	3.23	0.216	2.375	2.52	0.19	114 0002 11	40
3" IPS	4.72	0.318	3.5	3.7	0.59	114 0003 11	16
4" IPS	5.31	0.409	4.5	3.98	1.07	114 0004 11	10
6" IPS	6.89	0.603	6.625	4.84	2.88	114 0006 11	4
8" IPS	8.66	0.785	8.625	5.83	6.32	114 0008 11	1
10" IPS	9.84	0.978	10.75	6.3	10.9	114 0010 11	2
12" IPS	11.77	1.16	12.75	7.52	18.39	114 0012 11	1

Butt Flange Adapters

Elongated



Molded of
PE100/4710/3408
Black
CODE 112

SDR 17 (Standard Dimension Ratio) 125 PSI (Working Pressure at 73.4 °F)

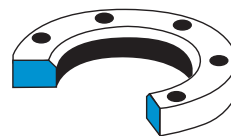
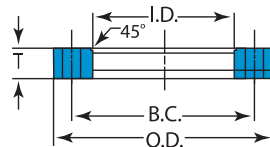
Nominal Diameter (inch)	A (inch) OD	B (inch)	C (inch)	D (inch)	E (inch) Wall	Weight (lbs.)	Product Code	Box Quantities
2" IPS	2.375	3.94	0.55	6.1	0.14	0.37	112 0002 17	12
3" IPS	3.5	5	0.67	6.1	0.206	0.71	112 0003 17	6
4" IPS	4.5	6.61	0.79	6.1	0.264	1.27	112 0004 17	4
6" IPS	6.625	8.5	1.02	8.07	0.39	3.02	112 0006 17	4
8" IPS	8.625	10.63	1.02	10.67	0.508	6.02	112 0008 17	2
10" IPS	10.75	12.99	1.18	11.5	0.633	10.06	112 0010 17	14
12" IPS	12.75	15.75	1.38	10.83	0.75	14.17	112 0012 17	14

SDR 11 (Standard Dimension Ratio) 200 PSI (Working Pressure at 73.4 °F)

Nominal Diameter (inch)	A (inch) OD	B (inch)	C (inch)	D (inch)	E (inch) Wall	Weight (lbs.)	Product Code	Box Quantities
¾" IPS	1.05	1.85	0.39	4.02	0.095	0.07	112 0075 11	40
1" IPS	1.315	2.36	0.39	4.02	0.119	0.11	112 0001 11	24
1¼" IPS	1.66	2.8	0.39	4.02	0.151	0.16	112 0125 11	30
1½" IPS	1.9	3.15	0.39	4.02	0.173	0.12	112 0150 11	25
2" IPS	2.375	3.94	0.55	6.1	0.216	0.48	112 0002 11	12
3" IPS	3.5	5	0.67	6.1	0.318	0.93	112 0003 11	6
4" IPS	4.5	6.61	0.79	6.1	0.409	1.66	112 0004 11	4
6" IPS	6.625	8.5	1.02	8.07	0.603	4.07	112 0006 11	4
8" IPS	8.625	10.63	1.26	10.67	0.785	8.73	112 0008 11	2
10" IPS	10.75	12.99	1.38	11.5	0.978	14.11	112 0010 11	14
12" IPS	12.75	15.75	1.5	10.83	1.16	19.88	112 0012 11	14

Ductile Iron Backing Rings

Conventional Cross Section in Ductile Iron



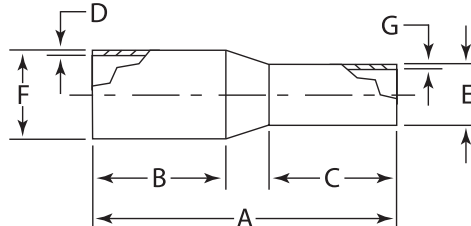
- **Description** A conventional cross section (reduced section modulus) in ductile iron.
- **Utilization** A back-up ring for IPS or AFR connections. Butt-welded or integrally flared stub-ends.
- **Materials** Cast in ductile iron A536. Tensile strength 80,000 psi, yield 55,000 psi, elongation 6%.
- **Dimensions** Vital dimensions AWWA C207. Mates with ANSI B16.5, B16.47; AWWA C207.
- **Finish** Red oxide primer, hot dipped galvanized.

***FREIGHT ALLOWED NOT ALLOWED ON ANY BACKING RING ORDER.**

Pipe Diameter (inch)	OD	Flange Thickness	ID	Bolt #	Bolt Hole Diameter	Bolt Circle	Product Code	Unit Weight (lbs)
1"	3.5	0.44	0.91	4	0.63	2.38	AA-DIG-SDR11-01B	1.0
1 1/4"	4.63	0.5	1.72	4	0.63	3.5	AA-DIG-SDR11-0114B	1.7
1 1/2"	5.0	0.5	1.97	4	0.63	3.88	AA-DIG-SDR11-0112B	2.0
2"	6.0	0.5	2.75	4	0.75	4.75	AA-DIG-SDR11-02B	3.0
3"	7.5	0.5	3.56	4	0.75	6.0	AA-DIG-SDR11-03B	4.5
4"	9.0	0.56	4.56	8	0.75	7.50	AA-DIG-SDR11-04B	6.5
6"	11.0	0.63	6.75	8	0.88	9.5	AA-DIG-SDR11-06B	8.5
8"	13.5	0.63	8.75	8	0.88	11.75	AA-DIG-SDR11-08B	12.0
10"	16.0	0.63	10.88	12	1.0	14.25	AA-DIG-SDR11-10B	16.0
12"	19.0	0.75	12.88	12	1.0	17.0	AA-DIG-SDR11-12B	27.0

Butt Reducers

Concentric
Elongated



Molded of
PE100/4710/3408
Black
CODE 118

SDR 17 (Standard Dimension Ratio) 125 PSI (Working Pressure at 73.4 °F)

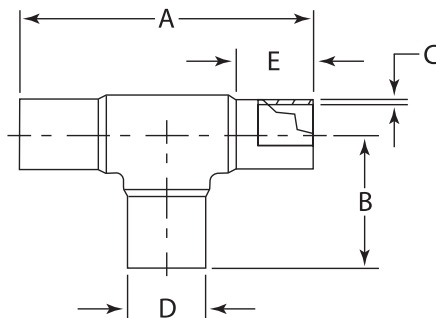
Nominal Diameter (inch)	A (inch)	B (inch)	C (inch)	D (inch) Wall	E (inch) OD	F (inch) OD	G (inch) Wall	Weight (lbs.)	Product Code	Box Qty.
3 x 2" IPS	7.87	3.94	2.95	0.206	2.375	3.5	0.14	0.47	118 0302 17	25
4 x 2" IPS	9.06	4.33	2.95	0.264	2.375	4.5	0.14	0.8	118 0402 17	3
4 x 3" IPS	9.06	4.33	3.94	0.264	3.5	4.5	0.206	0.94	118 0403 17	5
6 x 3" IPS	11.42	5.12	3.94	0.39	3.5	6.625	0.206	2.18	118 0603 17	3
6 x 4" IPS	11.42	5.12	4.33	0.39	4.5	6.625	0.264	2.39	118 0604 17	3
8 x 6" IPS	12.8	6.1	5.12	0.508	6.625	8.625	0.39	4.92	118 0806 17	2
10 x 8" IPS	14.37	6.25	5.813	0.75	8.625	10.75	0.508	10.21	118 1008 17	2
12 x 8" IPS	16.54	7.09	6.1	0.75	8.625	12.75	0.508	12.82	118 1208 17	1
12 x 10" IPS	16.54	7.09	6.69	0.75	10.75	12.75	0.633	14.43	118 1210 17	1

SDR 11 (Standard Dimension Ratio) 200 PSI (Working Pressure at 73.4 °F)

Nominal Diameter (inch)	A (inch)	B (inch)	C (inch)	D (inch) Wall	E (inch) OD	F (inch) OD	G (inch) Wall	Weight (lbs.)	Product Code	Box Qty.
2 x 1½" IPS	6.5	2.95	2.64	0.216	1.9	2.375	0.173	0.29	118 2150 11	25
3 x 2" IPS	7.87	3.94	2.95	0.318	2.375	3.5	0.216	0.7	118 0302 11	25
4 x 2" IPS	9.06	4.33	2.95	0.409	2.375	4.5	0.216	1.21	118 0402 11	5
4 x 3" IPS	9.06	4.33	3.94	0.409	3.5	4.5	0.318	1.41	118 0403 11	5
6 x 3" IPS	11.42	5.12	3.94	0.603	3.5	6.625	0.318	3.21	118 0603 11	3
6 x 4" IPS	11.42	5.12	4.33	0.603	4.5	6.625	0.409	3.54	118 0604 11	3
8 x 6" IPS	12.8	6.1	5.12	0.785	6.625	8.625	0.603	7.31	118 0806 11	2
10 x 8" IPS	14.37	6.25	5.875	1.16	8.625	10.75	0.785	14.45	118 1008 11	2
12 x 8" IPS	16.54	7.09	6.1	1.16	8.625	12.75	0.785	19.11	118 1208 11	1
12 x 10" IPS	16.54	7.09	6.69	1.16	10.75	12.75	0.978	21.66	118 1210 11	1

Butt Tees

Elongated



Molded of
PE100/4710/3408
Black
CODE 115

SDR 17 (Standard Dimension Ratio) 125 PSI (Working Pressure at 73.4 F)

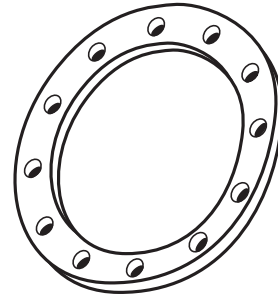
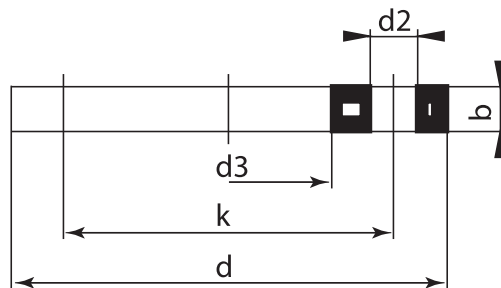
Nominal Diameter (inch)	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lbs.)	Product Code	Box Quantities
2" IPS	8.66	4.33	0.14	2.375	2.48	0.53	115 0002 17	7
3" IPS	11.81	5.91	0.206	3.5	3.54	1.45	115 0003 17	10
4" IPS	13.78	6.89	0.264	4.5	3.94	2.58	115 0004 17	3
6" IPS	18.11	9.06	0.39	6.625	4.72	7.24	115 0006 17	2
8" IPS	23.62	11.81	0.508	8.625	5.71	16.6	115 0008 17	1
10" IPS	27.56	13.78	0.633	10.75	6.3	28.9	115 0010 17	1
12" IPS	31.57	15.97	0.75	12.75	7.52	45.32	115 0012 17	1

SDR 11 (Standard Dimension Ratio) 200 PSI (Working Pressure at 73.4 F)

Nominal Diameter (inch)	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lbs.)	Product Code	Box Quantities
¾" IPS	5	2.5	0.095	1.05	1.77	0.09	115 0075 11	25
1" IPS	5.67	2.83	0.119	1.315	1.77	0.17	115 0001 11	15
1¼" IPS	6.61	3.31	0.151	1.66	2.01	0.3	115 0125 11	10
1½" IPS	7.99	4	0.173	1.9	2.52	0.47	115 0150 11	15
2" IPS	8.66	4.33	0.216	2.375	2.48	0.82	115 0002 11	7
3" IPS	11.81	5.91	0.318	3.5	3.54	2.18	115 0003 11	10
4" IPS	13.78	6.89	0.409	4.5	3.94	4.02	115 0004 11	3
6" IPS	18.11	9.06	0.603	6.625	4.72	10.91	115 0006 11	2
8" IPS	23.62	11.81	0.785	8.625	5.71	24.61	115 0008 11	1
10" IPS	27.56	13.78	0.978	10.75	6.3	42.6	115 0010 11	1
12" IPS	31.57	15.97	1.16	12.75	7.52	67.85	115 0012 11	1

PP Gray Steel Backing Ring ANSI

Fiber Reinforced



Steel Insert, Injection Molded. High Stiffness, Dimensional and Heat Stability

Pipe Diameter (inch)	OD (mm-inch)	d (Inch)	d2 (inch)	d3 (inch)	b (inch)	k (inch)	Product Code	Unit Weight (lbs)
1/2"	20 - 1/2" - MOP 160 psi	3.74	0.63	1.102	0.472	2.38	AA-PPBR-SDR11-012B	0.463
3/4"	25 - 3/4" - MOP 160 psi	4.016	0.63	1.339	0.472	2.75	AA-PPBR-SDR11-034B	0.529
1"	32 - 1" - MOP 160 psi	4.488	0.630	1.654	0.630	3.120	AA-PPBR-SDR11-01B	0.860
1 1/4"	40 - 1 1/4" - MOP 160 psi	5.118	0.630	2.008	0.630	3.500	AA-PPBR-SDR11-0114B	1.124
1 1/2"	50 - 1 1/2" - MOP 160 psi	5.236	0.630	2.441	0.709	3.880	AA-PPBR-SDR11-0112B	1.235
2"	63 - 2" - MOP 160 psi	6.378	0.787	3.071	0.709	4.750	AA-PPBR-SDR11-02B	1.852
2 1/2"	75-2 1/2" - MOP 160 psi	7.244	0.787	3.622	0.709	5.500	AA-PPBR-SDR11-0212B	3.740
3"	90 - 3" - MOP 160 psi	7.638	0.787	4.370	0.709	6.000	AA-PPBR-SDR11-03B	2.425
4"	110/125 - 4" - MOP 160 psi	9.015	0.787	5.236	0.709	7.500	AA-PPBR-SDR11-04B	3.461
6"	160 - 6" - MOP 160 psi	11.141	0.866	7.008	0.945	9.500	AA-PPBR-SDR11-06B	5.291
8"	200/225 - 8" - MOP 160 psi	13.582	0.866	9.291	0.945	11.750	AA-PPBR-SDR11-08B	7.716
10"	250 - 10" - MOP 160 psi	16.22	0.984	11.339	1.063	14.250	AA-PPBR-SDR11-10B	13.669
12"	315 - 12" - MOP 160 psi	19.17	0.984	13.307	1.260	17.000	AA-PPBR-SDR11-12B	28.418