INDUSTRIAL PIPE FITTINGS, LLC

HOUSTON, TX / CORSICANA , TX / MISSOULA, MT

Factory Mutual Approved HDPE fittings for Underground Fire Protection

Industrial Pipe Fittings is proud to announce availability of the world's largest listing of Factory Mutual approved HDPE pipe fittings. Our FM listing covers the complete range of IPS sizes from 2" through 24" in class 150 and class 200.

FM APPROVED

On reviewing our catalog, you will find many FM approved fittings which are exclusively available from IPF. These include stub ends, beveled flange adapters to mate with FM butterfly valves, stainless steel and forged carbon steel backup rings, forged steel blind flanges, larger sizes of reducing tees, swage reducers, and NPT transition fittings.

IPF is committed to remain the leader in FM approved HDPE fittings. Our FM listing is under constant review for opportunities to expand our listing to better serve industry.

Industrial Pipe Fittings, LLC 6020 Osborn / Houston, TX 77033 / Ph. 800-241-4175 / Fax 713-645-1756
Web: www.hdpefittings.com

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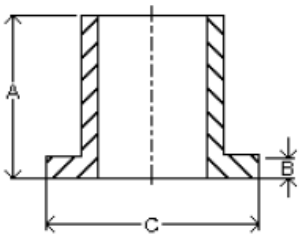

FM IPS Flange Adapter

BLACK PE 3408 HDPE

FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions A x B X C(in)	Standard Item	Weight per Item (lbs.)
2”	150	DR 11	6.00 X 0.35 X 3.75	Y	.33
2.375”	200	DR 9	6.00 X 0.49 X 3.75	Y	.40
3”	150	DR 11	6.00 X 0.47 X 4.75	Y	.83
3.50”	200	DR 9	6.00 X 0.68 X 4.75	Y	1.00
4”	150	DR 11	6.00 X 0.57 X 6.00	Y	1.70
4.50”	200	DR 9	6.00 X 0.84 X 6.00	Y	2.10
6”	150	DR 11	8.00 X 0.79 X 8.13	Y	6.00
6.625	200	DR 9	8.00 X 1.19 X 8.13	Y	6.60
8”	150	DR 11	8.63 X 1.00 X 10.75	Y	9.00
8.625”	200	DR 9	8.63 X 1.52 X 10.75	Y	10.00
10”	150	DR 11	8.75 X 1.22 X 12.75	Y	11.00
10.75”	200	DR 9	8.75 X 1.87 X 12.75	Y	15.00
12”	150	DR 11	9.13 X 1.43 X 15.50	Y	17.00
12.75”	200	DR 9	9.13 X 2.20 X 15.50	Y	22.00
14”	150	DR 11	11.50 X 1.56 X 17.00	Y	28.00
14.00”	200	DR 9	11.50 X 2.40 X 17.00	y	35.00
16”	150	DR 11	11.50 X 1.80 X 19.50	Y	33.00
16.00”	200	DR 9	11.50 X 2.75 X 19.50	Y	45.00
18”	150	DR 11	11.50 X 2.01 X 20.13	Y	41.00
18.00”	200	DR 9	11.50 X 3.08 X 20.13	Y	54.00
20”	150	DR 11	12.00 X 2.22 X 23.31	Y	56.00
20.00”	200	DR 9	12.00 X 3.41 X 23.31	Y	70.00
22”	150	DR 11	12.00 X 2.42 X 25.25	Y	68.00
20.00”	200	DR 9	12.00 X 3.74 X 25.25	Y	85.00
24”	150	DR 11	12.00 X 2.63 X 27.69	Y	83.00
20.00”	200	DR 9	12.00 X 4.07 X 27.69	Y	83.00

.

Dimensions and weights are approximate and subject to change

June 2007 Supersedes all previous

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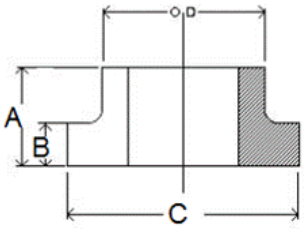

FM IPS Stub End

BLACK PE 3408 HDPE

FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions A x B X C(in)	Standard Item	Weight per Item (lbs.)
2”	150	DR 11	2.00 X 0.35 X 3.75	Y	.21
2.375”	200	DR 9	2.00 X 0.49 X 3.75	Y	.21
3”	150	DR 11	2.00 X 0.47 X 4.75	Y	1.00
3.50”	200	DR 9	2.00 X 0.68 X 4.75	Y	1.00
4”	150	DR 11	2.00 X 0.57 X 6.00	Y	1.70
4.50”	200	DR 9	2.00 X 0.84 X 6.00	Y	2.00
6”	150	DR 11	2.00 X 0.79 X 8.13	Y	2.00
6.625	200	DR 9	2.00 X 1.19 X 8.13	Y	2.00
8”	150	DR 11	2.00 X 1.00 X 10.75	Y	4.00
8.625”	200	DR 9	2.00 X 1.52 X 10.75	Y	4.00
10”	150	DR 11	3.00 X 1.22 X 12.75	Y	6.00
10.75”	200	DR 9	3.00 X 1.87 X 12.75	Y	6.00
12”	150	DR 11	3.00 X 1.43 X 15.50	Y	12.00
12.75”	200	DR 9	3.00 X 2.20 X 15.50	Y	12.00
14”	150	DR 11	4.00 X 1.56 X 17.00	Y	17.00
14.00”	200	DR 9	4.00 X 2.40 X 17.00	y	17.00
16”	150	DR 11	4.00 X 1.80 X 19.50	Y	20.00
16.00”	200	DR 9	4.00 X 2.75 X 19.50	Y	20.00
18”	150	DR 11	4.50 X 2.01 X 20.13	Y	28.00
18.00”	200	DR 9	4.50 X 3.08 X 20.13	Y	28.00
20”	150	DR 11	4.50 X 2.22 X 23.31	Y	28.00
20.00”	200	DR 9	4.50 X 3.41 X 23.31	Y	28.00
22”	150	DR 11	5.00 X 2.42 X 25.25	Y	28.00
22.00”	200	DR 9	5.00 X 3.74 X 25.25	Y	28.00
24”	150	DR 11	5.00 X 2.63 X 27.69	Y	28.00
24.00”	200	DR 9	5.00 X 4.07 X 27.69	Y	28.00

.

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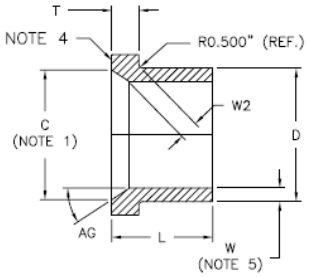

FM IPS Beveled Flange Adapter

BLACK PE 3408 HDPE

FACTORY MUTUAL APPROVED

ALLOWS FULL DISC CLEARANCE FOR PRATT GROUNDHOG FM BUTTERFLY VALVES (AND MOST OTHERS)

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions L x T (in)	Standard Item	Weight per Item (lbs.)
2”	150	DR 11	6.56 X 0.55	N	.33
2.375”	200	DR 9	6.68 X 0.67	N	.40
3”	150	DR 11	6.53 X 0.63	N	.83
3.50”	200	DR 9	6.71 X 0.81	N	1.00
4”	150	DR 11	7.35 X 0.68	N	1.70
4.50”	200	DR 9	7.97 X 1.26	N	2.10
6”	150	DR 11	7.57 X 0.86	N	6.00
6.625	200	DR 9	7.59 X 1.96	N	6.60
8”	150	DR 11	7.09 X 1.45	N	9.00
8.625”	200	DR 9	7.59 X 1.96	N	10.00
10”	150	DR 11	8.58 X 2.15	N	11.00
10.75”	200	DR 9	9.20 X 2.78	N	15.00
12”	150	DR 11	10.65 X 2.68	N	17.00
12.75”	200	DR 9	11.38 X 3.40	N	22.00
14”	150	DR 11	12.00 X 1.64	N	28.00
14.00”	200	DR 9	13.00 X 2.33	N	35.00
16”	150	DR 11	13.00 X 2.36	N	33.00
16.00”	200	DR 9	14.00 X 3.16	N	45.00
18”	150	DR 11	13.00 X 3.11	N	41.00
18.00”	200	DR 9	14.00 X 4.01	N	54.00
20”	150	DR 11	14.00 X 3.87	N	56.00
20.00”	200	DR 9	15.00 X 4.88	N	70.00
22”	150	DR 11	15.00 X 4.65	N	68.00
20.00”	200	DR 9	15.00 X 5.76	N	85.00
24”	150	DR 11	15.00 X 5.42	N	83.00
20.00”	200	DR 9	16.00 X 6.64	N	83.00

.
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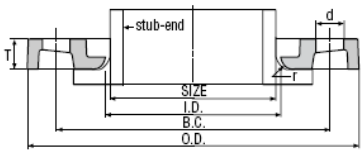

FM IPS D.I. Backup Ring

BLACK PE 3408 HDPE

FACTORY MUTUAL APPROVED

RED OXIDE COATING STANDARD—OTHER FINISHES AVAIL.

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions O.D. x I.D. X T (in)	No. Bolts / Bolt Diameter	Standard Item	Weight per Item (lbs.)
2”	150	DR 11	6.00 X 2.46 X 0.75	4 / 5/8”	Y	3.00
2.375”	200	DR 9			Y	3.00
3”	150	DR 11	7.50 X 3.60 X 0.94	4 / 5/8”	Y	4.00
3.50”	200	DR 9			Y	4.00
4”	150	DR 11	9.00 X 4.60 X 0.94	8 / 5/8”	Y	5.50
4.50”	200	DR 9			Y	5.50
6”	150	DR 11	11.00 X 6.75 X 1.00	8 / 3/4”	Y	7.00
6.625	200	DR 9			Y	7.00
8”	150	DR 11	13.50 X 8.75 X 1.12	8 / 3/4”	Y	11.00
8.625”	200	DR 9			Y	11.00
10”	150	DR 11	16.00 X 10.92 X 1.19	12 / 7/8”	Y	16.00
10.75”	200	DR 9			Y	16.00
12”	150	DR 11	19.00 X 12.92 X 1.50	12 / 7/8”	Y	23.00
12.75”	200	DR 9			Y	23.00
14”	150	DR 11	21.00 X 14.18 X 1.63	12 / 1”	Y	37.00
14.00”	200	DR 9			y	37.00
16”	150	DR 11	23.50 X 16.19 X 1.88	16 / 1”	Y	49.00
16.00”	200	DR 9			Y	49.00
18”	150	DR 11	25.00 X 18.20 X 1.80	16 / 1-1/8”	Y	50.00
18.00”	200	DR 9			Y	50.00
20”	150	DR 11	27.50 X 20.38 X 2.06	20 / 1-1/8”	Y	61.00
20.00”	200	DR 9			Y	61.00
22”	150	DR 11	29.50 X 22.38 X 2.13	20 / 1-1/4”	Y	72.00
20.00”	200	DR 9			Y	72.00
24”	150	DR 11	32.00 X 24.38 X 2.13	20 / 1-1/4”	Y	91.00
24.00”	200	DR 9			Y	91.00

D.I. Rings can also be furnished hot dip galvanized or epoxy coated — Price on application. Domestic FM rings are only available in A105 forged carbon steel lap joint rings.

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Dimensions and weights are approximate and subject to change March 2006 Supersedes all previous

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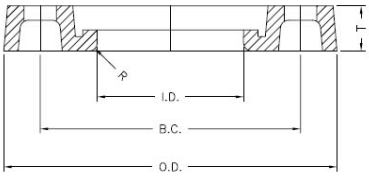

FM 316 Stainless Steel Backup Ring

ASTM A351 CF8M STAINLESS STEEL

FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions O.D. x I.D. X T(in)	No. Bolts / Bolt Diameter	Standard Item	Weight per Item (lbs.)
2”	150	DR 11	6.00 X 2.46 X 0.75	4 / 5/8”	N	3.00
2.375”	200	DR 9			N	3.00
3”	150	DR 11	7.50 X 3.60 X 0.94	4 / 5/8”	N	5.00
3.50”	200	DR 9			N	5.00
4”	150	DR 11	9.00 X 4.60 X 0.94	8 / 5/8”	N	6.00
4.50”	200	DR 9			N	6.00
6”	150	DR 11	11.00 X 6.75 X 1.00	8 / 3/4”	N	9.00
6.625	200	DR 9			N	9.00
8”	150	DR 11	13.50 X 8.75 X 1.12	8 / 3/4”	N	12.00
8.625”	200	DR 9			N	12.00
10”	150	DR 11	16.00 X 10.92 X 1.27	12 / 7/8”	N	20.00
10.75”	200	DR 9			N	20.00
12”	150	DR 11	19.00 X 12.92 X 1.77	12 / 7/8”	N	37.00
12.75”	200	DR 9			N	37.00
14”	150	DR 11	21.00 X 14.18 X 1.78	12 / 1”	N	50.00
14.00”	200	DR 9			N	50.00
16”	150	DR 11	23.50 X 16.19 X 2.17	16 / 1”	N	67.00
16.00”	200	DR 9			N	67.00
18”	150	DR 11	25.00 X 18.20 X 2.06	16 / 1-1/8”	N	76.00
18.00”	200	DR 9			N	76.00
20”	150	DR 11	27.50 X 20.38 X 2.27	20 / 1-1/8”	N	90.00
20.00”	200	DR 9			N	90.00
22”	150	DR 11	29.50 X 22.50 X 2.43	20 / 1-1/4”	N	100.00
22.00”	200	DR 9			N	100.00
24”	150	DR 11	32.00 X 24.38 X 2.60	20 / 1-1/4”	N	116.00
24.00”	200	DR 9			N	116.00

.
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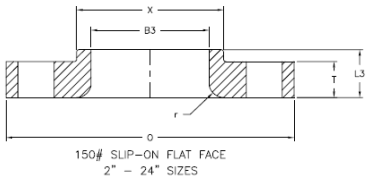

FM IPS Forged Steel Backup Ring

ASTM A105 FORGED STEEL

FACTORY MUTUAL APPROVED

MILL LAQUER COATING STANDARD—OTHER FINISHES AVAIL.

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions O.D. x I.D. X T(in)	No. Bolts / Bolt Diameter	Standard Item	Weight per Item (lbs.)
2”	150	DR 11	6.00 X 2.46 X 0.69	4 / 5/8”	Y	5.00
2.375”	200	DR 9			Y	5.00
3”	150	DR 11	7.50 X 3.60 X 0.88	4 / 5/8”	Y	8.00
3.50”	200	DR 9			Y	8.00
4”	150	DR 11	9.00 X 4.60 X 0.88	8 / 5/8”	Y	13.00
4.50”	200	DR 9			Y	13.00
6”	150	DR 11	11.00 X 6.75 X 0.94	8 / 3/4”	Y	19.00
6.625	200	DR 9			Y	19.00
8”	150	DR 11	13.50 X 8.75 X 1.06	8 / 3/4”	Y	30.00
8.625”	200	DR 9			Y	30.00
10”	150	DR 11	16.00 X 10.92 X 1.13	12 / 7/8”	Y	43.00
10.75”	200	DR 9			Y	43.00
12”	150	DR 11	19.00 X 12.92 X 1.19	12 / 7/8”	Y	64.00
12.75”	200	DR 9			Y	64.00
14”	150	DR 11	21.00 X 14.18 X 1.31	12 / 1”	Y	90.00
14.00”	200	DR 9			y	90.00
16”	150	DR 11	23.50 X 16.19 X 1.38	16 / 1”	Y	98.00
16.00”	200	DR 9			Y	98.00
18”	150	DR 11	25.00 X 18.20 X 1.50	16 / 1-1/8”	Y	130.00
18.00”	200	DR 9			Y	130.00
20”	150	DR 11	27.50 X 20.38 X 1.63	20 / 1-1/8”	Y	165.00
20.00”	200	DR 9			Y	165.00
24”	150	DR 11	32.00 X 24.38 X 1.81	20 / 1-1/4”	Y	220.00
24.00”	200	DR 9			Y	220.00

Rings can also be furnished hot dip galvanized, epoxy coated, teflon coated, or any finish as specified by the engineer — Price on application. Domestic FM rings are also available in A105 forged carbon steel lap joint rings— Price on application.

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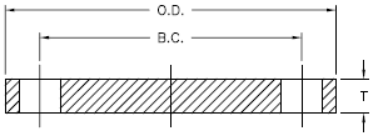

FM IPS Forged Steel Blind Flange

ASTM A105 FORGED STEEL

FACTORY MUTUAL APPROVED

MILL LAQUER COATING STANDARD—OTHER FINISHES AVAILABLE ON REQUEST

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions O.D. x B.C. X T(in)	No. Bolts / Bolt Diameter	Standard Item	Weight per Item (lbs.)
2”	150	DR 11	6.00 X 4.75 X 0.75	4 / 5/8”	N	5.00
2.375”	200	DR 9			N	5.00
3”	150	DR 11	7.50 X 6.00 X 0.94	4 / 5/8”	N	9.00
3.50”	200	DR 9			N	9.00
4”	150	DR 11	9.00 X 7.50 X 0.94	8 / 5/8”	N	17.00
4.50”	200	DR 9			N	17.00
6”	150	DR 11	11.00 X 9.50 X 1.00	8 / 3/4”	N	26.00
6.625	200	DR 9			N	26.00
8”	150	DR 11	13.50 X 11.75 X 1.13	8 / 3/4”	N	45.00
8.625”	200	DR 9			N	45.00
10”	150	DR 11	16.00 X 14.25 X 1.19	12 / 7/8”	N	70.00
10.75”	200	DR 9			N	70.00
12”	150	DR 11	19.00 X 17.00 X 1.25	12 / 7/8”	N	110.00
12.75”	200	DR 9			N	110.00
14”	150	DR 11	21.00 X 18.75 X 1.38	12 / 1”	N	140.00
14.00”	200	DR 9			N	140.00
16”	150	DR 11	23.50 X 21.25 X 1.44	16 / 1”	N	180.00
16.00”	200	DR 9			N	180.00
18”	150	DR 11	25.00 X 22.75 X 1.56	16 / 1-1/8”	N	220.00
18.00”	200	DR 9			N	220.00
20”	150	DR 11	27.50 X 25.00 X 1.69	20 / 1-1/8”	N	285.00
20.00”	200	DR 9			N	285.00
24”	150	DR 11	32.00 X 29.50 X 1.88	20 / 1-1/4”	N	430.00
24.00”	200	DR 9			N	430.00

Blinds can also be furnished hot dip galvanized, epoxy coated, Teflon coated, or any finish as specified by the engineer — Price on application. Domestic FM blinds are also available in A105 forged carbon steel — Price on application.

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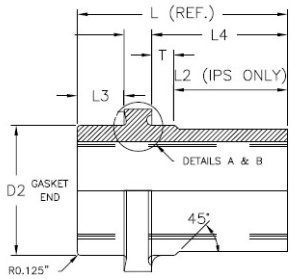

FM IPS MJ Adapter

BLACK PE 3408 HDPE

FACTORY MUTUAL APPROVED

FURNISHED WITH STAINLESS STEEL STIFFENER

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions L x L_2 (in)	No. Bolts / Bolt Diameter	Standard Item	Weight per Item (lbs.)
3”	150	DR 11	10 1/4 X 6 1/2	4 / 4 1/2”	Y	5.00
3.50”	200	DR 9			Y	5.00
4”	150	DR 11	10 1/4 X 6 1/2	4 / 4 -1/2”	Y	6.00
4.50”	200	DR 9			Y	6.00
6”	150	DR 11	11 1/4 X 7 1/4	4 / 4”	Y	9.00
6.625	200	DR 9			Y	9.00
8”	150	DR 11	12 3/4 X 8 3/4	6 / 7”	Y	12.00
8.625”	200	DR 9			Y	12.00
10”	150	DR 11	13 3/4 X 9 5/8	8 / 7”	Y	20.00
10.75”	200	DR 9			Y	20.00
12”	150	DR 11	14 3/4 X 10 1/8	8 / 7”	Y	37.00
12.75”	200	DR 9			Y	37.00
14”	150	DR 11	17 1/2 X 12 1/2	10 / 7”	Y	50.00
14.00”	200	DR 9			Y	50.00
16”	150	DR 11	17 1/4 X 12 1/2	12 / 7”	Y	67.00
16.00”	200	DR 9			Y	67.00
18”	150	DR 11	15 1/4 X 10 3/8	12 / 7”	Y	76.00
18.00”	200	DR 9			Y	76.00
20”	150	DR 11	15 1/4 X 10 1/4	14 / 7”	Y	90.00
20.00”	200	DR 9			Y	90.00
24”	150	DR 11	15 1/4 X 10	14 / 7”	Y	116.00
24.00”	200	DR 9			Y	116.00

Use MJ kits in the non-FM section of this price book. MJ Kits are AWWA—not FM approved.
IPF MJ adapters are designed to clear the disc of MJ butterfly valves.
The fusion end is of sufficient length for use with electro-fusion couplings.

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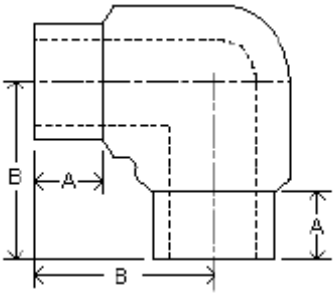
Dimensions and weights are approximate and subject to change

June 2007 Supersedes all previous

INDUSTRIAL PIPE FITTINGS, LLC

HOUSTON, TX / CORSICANA , TX / MISSOULA, MT



FM Molded IPS 90^0 Ells

BLACK PE 3408 HDPE

FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions A x B (in)	Standard Item	Weight per Item (lbs.)
2”	150	DR 11	2.5 X 4.0	Y	.80
2.38”	200	DR 9		Y	.80
3”	150	DR 11	3.0 X 5.5	Y	2
3.50”	200	DR 9		Y	2
4”	150	DR 11	3.0 X 6.0	Y	4
4.50”	200	DR 9		Y	4
6”	150	DR 11	4.0 X 8.0	Y	7.5
6.63”	200	DR 9		Y	7.5
8”	150	DR 11	6.0 X 11.80	Y	10
8.63”	200	DR 9		Y	10

Dimensions and weights are approximate and subject to change.

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Web: www.hdpefittings.com

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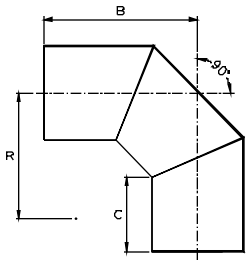

FM Fabricated IPS 3-Segment 90 Ell

BLACK ASTM F714 HDPE

Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Feed Stock	Dimensions R x C x B (in)	Std. Item	Weight per Item (lbs.)
10”	150	DR 9	12 5/8 X 6 1/2 X 16 1/8	Y	37
10.750”	200	DR 7		Y	43
12”	150	DR 9	13 5/8 X 8 X 18 5/8	Y	61
12.750”	200	DR 7		Y	72
14”	150	DR 9	14 1/4 X 8 X 19 1/4	Y	75
14.000”	200	DR 7		Y	89
16”	150	DR 9	15 1/4 X 8 X 20 1/4	Y	100
16.000”	200	DR 7		Y	120
18”	150	DR 9	16 1/4 X 8 X 21 1/4	Y	135
18.000”	200	DR 7		Y	161
20”	150	DR 9	17 1/4 X 8 X 22 1/4	N	175
20.000”	200	DR 7		N	209
22”	150	DR 9	23 1/16 x 8 x 26 1/16	N	239
22.000”	200	DR 7		N	286
24”	150	DR 9	24 1/16 X 8 X 27 1/16	N	298
24.000”	200	DR 7		N	356

Custom angle elbows are available upon request—Price on application.

Dimensions and weights are approximate and subject to change.

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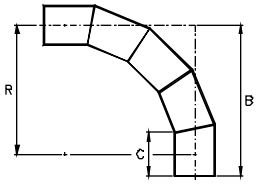

FM Fabricated IPS 5-Segment 90 Ell

BLACK ASTM F714 HDPE

FACTORY MUTUAL APPROVED

Nominal Size / Actual OD	Pressure Class (psi)	Feed Stock	Dimensions R x C x B (in)	Std. Item	Weight per Item (lbs.)
2”	160	DR 9	13 1/8 x 4 x 14 3/4	N	2
2.375”	200	DR 7		N	2
3”	160	DR 9	13 5/8 x 4 x 15 1/4	N	4
3.500”	200	DR 7		N	4
4”	160	DR 9	14 1/4 x 5 x 16 7/8	N	7
4.500”	200	DR 7		N	8
6”	160	DR 9	15 1/4 x 6 x 18 7/8	N	16
6.625”	200	DR 7		N	19
8”	160	DR 9	16 1/4 x 6 1/2 x 20 3/8	N	29
8.625”	200	DR 7		N	35
10”	160	DR 9	17 1/4 x 6 1/2 x 21 3/8	N	47
10.750”	200	DR 7		N	58
12”	160	DR 9	19 1/2 x 8 x 24 7/8	N	77
12.750”	200	DR 7		N	95
14”	160	DR 9	21 x 8 x 26 1/4	N	97
14.000”	200	DR 7		N	120
16”	160	DR 9	24 x 8 x 28 7/8	N	137
16.000”	200	DR 7		N	164
18”	160	DR 9	27 x 8 x 31 3/8	N	189
18.000”	200	DR 7		N	225
20”	160	DR 9	30 x 8 x 34	N	251
20.000”	200	DR 7		N	300
22”	160	DR 9	33 x 8 x 36 5/8	N	325
22.000”	200	DR 7		N	389
24”	160	DR 9	36 x 8 x 39 1/4	N	413
24.000”	200	DR 7		N	493

Custom angles are available in any degree — Call for quote.

Dimensions and weights are approximate and subject to change.

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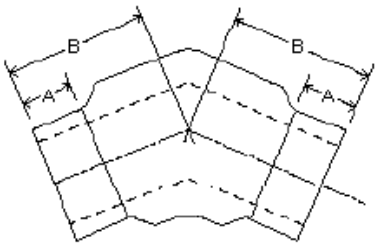

FM Molded IPS 45^0 Ells

BLACK PE 3408 HDPE

FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions A x B (in)	Standard Item	Weight per Item (lbs.)
2”	150	DR 11	2.5 X 4.5	Y	.80
2.38”	200	DR 9		Y	.80
3”	150	DR 11	3.2 X 5.5	Y	2
3.50”	200	DR 9		Y	2
4”	150	DR 11	3.0 X 5.0	Y	4
4.50”	200	DR 9		Y	4
6”	150	DR 11	4.0 X 10.0	Y	7.5
6.63”	200	DR 9		Y	7.5
8”	150	DR 11	6.0 X 10.00	Y	10
8.63”	200	DR 9		Y	10

Dimensions and weights are approximate and subject to change.

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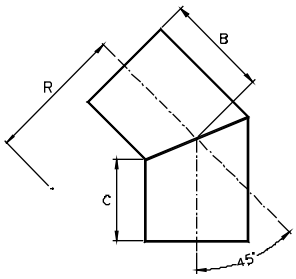

FM Fabricated IPS 2-Segment 45^0 Ell

BLACK ASTM F714 HDPE

Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Feed Stock	Dimensions R x C x B (in)	Std. Item	Weight per Item (lbs.)
10”	150	DR 9	12 5/8 X 6 1/2 X 8 3/4	Y	37
10.750”	200	DR 7		Y	43
12”	150	DR 9	13 5/8 X 8 X 10 5/8	Y	61
12.750”	200	DR 7		Y	72
14”	150	DR 9	14 1/4 X 8 X 10 7/8	Y	75
14.000”	200	DR 7		Y	89
16”	150	DR 9	15 1/4 X 8 X 11 5/16	Y	100
16.000”	200	DR 7		Y	120
18”	150	DR 9	16 1/4 X 8 X 11 3/4	Y	135
18.000”	200	DR 7		Y	161
20”	150	DR 9	17 1/4 X 8 X 12 1/8	N	175
20.000”	200	DR 7		N	209
22”	150	DR 9	23 1/16 x 8 x 12 9/16	N	239
22.000”	200	DR 7		N	286
24”	150	DR 9	24 1/16 X 8 X 13	N	298
24.000”	200	DR 7		N	356

Custom angle elbows are available in any degree — Call for quote.

Dimensions and weights are approximate and subject to change.

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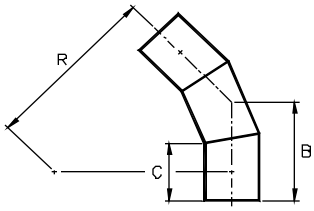

FM Fabricated IPS 3-Segment 45^0 Ell

BLACK ASTM F714 HDPE

Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Feed Stock	Dimensions R x C x B (in)	Std. Item	Weight per Item (lbs.)
2”	150	DR 9	13 1/8 X 4 X 7	N	1
2.375”	200	DR 7		N	1
3”	150	DR 9	13 5/8 X 4 X 7 1/4	N	2
3.50”	200	DR 7		N	2
4”	150	DR 9	14 1/4 X 5 X 8 1/2	N	4
4.50”	200	DR 7		N	5
6”	150	DR 9	15 1/4 X 6 X 10	N	10
6.625”	200	DR 7		N	12
8”	150	DR 9	16 1/4 X 6 1/2 X 10 7/8	N	18
8.625”	200	DR 7		N	22
10”	150	DR 9	17 1/4 X 6 1/2 X 11 1/4	N	29
10.750”	200	DR 7		N	35
12”	150	DR 9	19 1/2 X 8 X 13 1/2	N	48
12.750”	200	DR 7		N	60
14”	150	DR 9	21 X 8 X 13 7/8	N	60
14.000”	200	DR 7		N	74
16”	150	DR 9	24 X 8 X 14 3/4	N	83
16.000”	200	DR 7		N	99
18”	150	DR 9	27 X 8 X 15 5/8	N	111
18.000”	200	DR 7		N	132
20”	150	DR 9	30 X 8 X 16 1/2	N	144
20.000”	200	DR 7		N	171
22”	150	DR 9	33 X 8 X 17 1/4	N	183
22.000”	200	DR 7		N	219
24”	150	DR 9	36 X 8 X 18 1/8	N	228
24.000”	200	DR 7		N	272

Custom angle elbows are available upon request—Price on application.

Dimensions and weights are approximate and subject to change.

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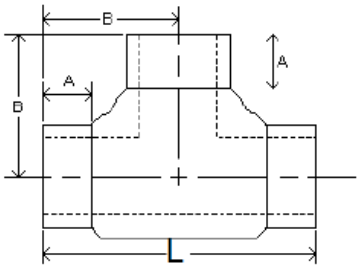

FM Molded IPS Tees

BLACK PE 3408 HDPE

FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions A X B XL (in)	Standard Item	Weight per Item (lbs.)
2”	150	DR 11	2.50 X 4.25 X 8.50	Y	1.0
2.38”	200	DR 9		Y	1.0
3”	150	DR 11	3.0 X 5.75 X 11.375	Y	2.2
3.50”	200	DR 9		Y	2.2
4”	150	DR 11	3.0 X 6.25 X 12.25	Y	3.8
4.50”	200	DR 9		Y	3.8
6”	150	DR 11	4.0 X 8.25 X 16.25	Y	10.0
6.63”	200	DR 9		Y	10.0
8”	150	DR 11	6.0 X 12.125 X 24.25	Y	27.5
8.63”	200	DR 9		Y	27.5

Dimensions and weights are approximate and subject to change.

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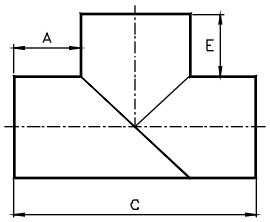

FM Fabricated 3-Segment IPS Tee

BLACK ASTM F714 HDPE

FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	Feed Stock	Dimensions A x C x E (in)	Std. Item	Weight per Item (lbs.)
10”	160	DR 9	6 1/2 x 23 3/4 x 6 1/2	Y	38
10.750”	200	DR 7		Y	48
12”	160	DR 9	8 x 28 3/4 x 8	Y	66
12.750”	200	DR 7		Y	82
14”	160	DR 9	8 x 30 x 8	Y	82
14.000”	200	DR 7		Y	102
16”	160	DR 9	8 x 32 x 8	Y	135
16.000”	200	DR 7		Y	167
18”	160	DR 9	8 x 34 x 10	Y	178
18.000”	200	DR 7		Y	221
20”	160	DR 9	8 x 36 x 10	N	249
20.000”	200	DR 7		N	309
22”	160	DR 9	8 x 38 x 10	N	312
22.000”	200	DR 7		N	390
24”	160	DR 9	8 x 40 x 10	N	385
24.000”	200	DR 7		N	481

Dimensions and weights are approximate and subject to change. June 2007 Supersedes all previous

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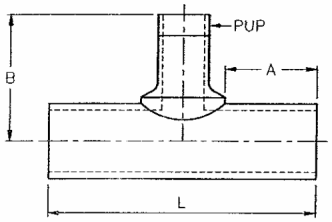

FM IPS Branch Saddle Reducing Tees 2” Branch

BLACK ASTM F714 HDPE
Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
4” X 2”	150	5 1/2 X 30 3/4 X 15 3/8	N	8
4.50” X 2.375”	200		N	9
6” X 2”	150	6 X 31 7/8 X 16 3/8	N	11
6.625” X 2.375”	200		N	13
8” X 2”	150	6 1/2 X 32 7/8 X 17 3/8	N	16
12.75” X 2.375”	200		N	19
10” X 2”	150	6 1/2 X 33 7/8 X 17 3/8	N	23
10.75” X 2.375”	200		N	27
12” X 2”	150	8 X 34 7/8 X 20 3/8	N	35
12.75” X 2.375”	200		N	41
14” X 2”	150	8 X 35 1/2 X 20 3/8	N	41
14.000” X 2.375”	200		N	48
16” X 2”	150	8 X 36 1/2 X 20 3/8	N	52
16.000” X 2.375”	200		N	61
18” X 2”	150	8 X 37 1/2 X 20 3/8	N	64
18.000” X 2.375”	200		N	76
20” X 2”	150	8 X 38 1/2 X 20 3/8	N	78
20.000” X 2.375”	200		N	93
22” X 2”	150	8 X 39 1/2 X 20 3/8	N	94
22.000” X 2.375”	200		N	111
24” X 2”	150	8 X 40 1/2 X 20 3/8	N	111
24.000” X 2.375”	200		N	132

Dimensions and weights are approximate and subject to change.

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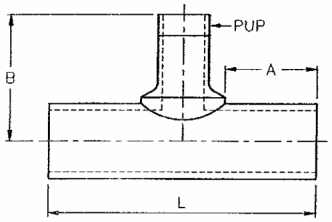

FM IPS Branch Saddle Reducing Tees 3” Branch

BLACK ASTM F714 HDPE

Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
4” X 3”	150	5 1/2 X 31 3/4 X 15 3/8	N	9
4.50” X 3.50”	200		N	10
6” X 3”	150	6 X 32 3/4 X 17	N	15
6.625” X 3.50”	200		N	17
8” X 3”	150	6 1/2 X 33 3/4 X 18	N	20
12.75” X 3.50”	200		N	23
10” X 3”	150	6 1/2 X 33 3/4 X 18	N	27
10.75” X 3.50”	200		N	31
12” X 3”	150	8 X 3 3/4 X 21	N	39
12.75” X 3.50”	200		N	46
14” X 3”	150	8 X 36 1/2 X 21	N	46
14.000” X 3.50”	200		N	54
16” X 3”	150	8 X 37 1/2 X 21	N	58
16.000” X 3.50”	200		N	68
18” X 3”	150	8 X 38 1/2 X 21	N	71
18.000” X 3.50”	200		N	84
20” X 3”	150	8 X 39 1/2 X 21	N	86
20.000” X 3.50”	200		N	101
22” X 3”	150	8 X 40 1/2 X 21	N	102
22.000” X 3.50”	200		N	121
24” X 3”	150	8 X 41 1/2 X 21	N	120
24.000” X 3.50”	200		N	142

Dimensions and weights are approximate and subject to change.

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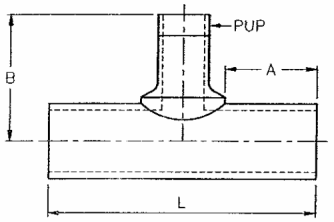

FM IPS Branch Saddle Reducing Tees 4” Branch

BLACK ASTM F714 HDPE

Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
6” X 4” 6.625” X 4.50”	150	6 X 29 3/8 X 17	Y	26
	200		Y	28
8” X 4” 12.75” X 4.50”	150	6 1/2 X 33 1/4 X 18	Y	32
	200		Y	35
10” X 4” 10.75” X 4.50”	150	6 1/2 X 34 3/8 X 18	Y	39
	200		Y	45
12” X 4” 12.75” X 4.50”	150	8 X 35 3/8 X 21	Y	53
	200		Y	61
14” X 4” 14.000” X 4.50”	150	8 X 36 X 22 1/2	Y	60
	200		Y	69
16” X 4” 16.000” X 4.50”	150	8 X 37 X 22 1/2	Y	73
	200		Y	85
18” X 4” 18.000” X 4.50”	150	8 X 38 X 22 1/2	Y	88
	200		Y	102
20” X 4” 20.000” X 4.50”	150	8 X 39 X 22 1/2	N	104
	200		N	121
22” X 4” 22.000” X 4.50”	150	8 X 40 X 22 1/2	N	122
	200		N	143
24” X 4” 24.000” X 4.50”	150	8 X 41 X 22 1/2	N	141
	200		N	166

Dimensions and weights are approximate and subject to change.

June 2007 Supersedes all previous

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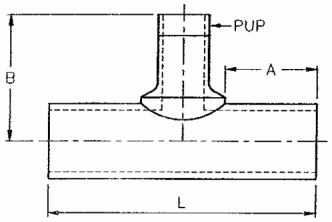
Web: www.hdpefittings.com

INDUSTRIAL PIPE FITTINGS, LLC

HOUSTON, TX / CORSICANA , TX / MISSOULA, MT



FM IPS Branch Saddle Reducing Tees 6” Branch

BLACK ASTM F714 HDPE

Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
8” X 6” 8.625” X 6.625”	150	6 1/2 X 32 X 21 5/8	Y	35
	200		Y	38
10” X 6” 10.75” X 6.625”	150	6 1/2 X 36 1/2 X 21 5/8	Y	47
	200		Y	54
12” X 6” 12.75” X 6.625”	150	8 X 37 1/2 X 24 5/8	Y	61
	200		Y	71
14” X 6” 14.000” X 6.625”	150	8 X 38 1/4 X 24 5/8	Y	69
	200		Y	80
16” X 6” 16.000” X 6.625”	150	8 X 39 1/4 X 24 5/8	Y	83
	200		Y	97
18” X 6” 18.000” X 6.625”	150	8 X 40 1/4 X 24 5/8	Y	99
	200		Y	117
20” X 6” 20.000” X 6.625”	150	8 X 41 1/4 X 24 5/8	N	118
	200		N	138
22” X 6” 22.000” X 6.625”	150	8 X 42 1/4 X 24 5/8	N	138
	200		N	162
24” X 6” 24.000” X 6.625”	150	8 X 43 1/4 X 24 5/8	N	159
	200		N	188

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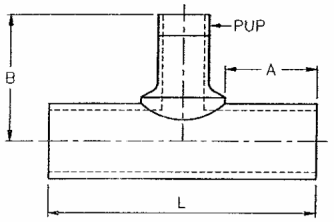

FM IPS Branch Saddle Reducing Tees 8” Branch

BLACK ASTM F714 HDPE

Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
10” X 8”	150	8 X 38 3/4 X 26 3/4	N	54
10.75” X 8.625”	200		N	61
12” X 8”	150	8 X 39 3/4 X 26 3/4	N	89
12.75” X 8.625”	200		N	100
14” X 8”	150	8 X 39 1/2 X 26 3/4	N	97
14.000” X 8.625”	200		N	111
16” X 8”	150	8 X 40 1/2 X 26 3/4	N	113
16.000” X 8.625”	200		N	129
18” X 8”	150	8 X 41 1/2 X 26 3/4	N	129
18.000” X 8.625”	200		N	149
20” X 8”	150	8 X 42 1/2 X 26 3/4	N	149
20.000” X 8.625”	200		N	172
22” X 8”	150	8 X 43 1/2 X 26 3/4	N	170
22.000” X 8.625”	200		N	198
24” X 8”	150	8 X 44 1/2 X 26 3/4	N	194
24.000” X 8.625”	200		N	225

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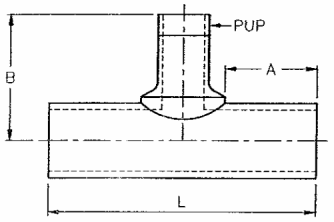

FM IPS Branch Saddle Reducing Tees
10” Branch

BLACK ASTM F714 HDPE
Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
14” X 10”	150	8 X 38 3/4 X 29 7/8	N	122
14.000” X 10.75”	200		N	138
16” X 10”	150	8 X 39 3/4 X 29 7/8	N	139
16.000” X 10.75”	200		N	158
18” X 10”	150	8 X 40 3/4 X 29 7/8	N	157
18.000” X 10.75”	200		N	180
20” X 10”	150	8 X 41 3/4 X 29 7/8	N	178
20.000” X 10.75”	200		N	205
22” X 10”	150	8 X 42 3/4 X 29 7/8	N	201
22.000” X 10.75”	200		N	232
24” X 10”	150	8 X 43 3/4 X 29 7/8	N	226
24.000” X 10.75”	200		N	262

Dimensions and weights are approximate and subject to change.

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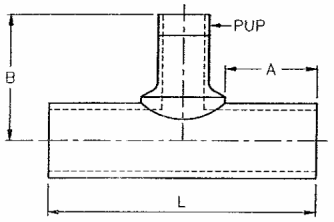

FM IPS Branch Saddle Reducing Tees 12” Branch

BLACK ASTM F714 HDPE

Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
16” X 12” 16.000” X 12.75”	150	8 X 40 X 31 7/8	N	158
	200		N	181
18” X 12” 18.000” X 12.75”	150	8 X 41 X 31 7/8	N	178
	200		N	204
20” X 12” 20.000” X 12.75”	150	8 X 42 X 31 7/8	N	199
	200		N	230
22” X 12” 22.000” X 12.75”	150	8 X 43 X 31 7/8	N	224
	200		N	259
24” X 12” 24.000” X 12.75”	150	8 X 44 X 31 7/8	N	251
	200		N	291

Dimensions and weights are approximate and subject to change.

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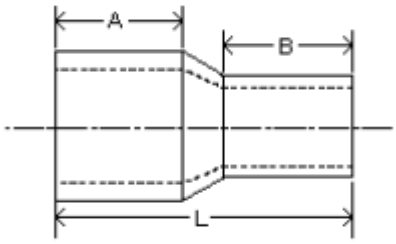


FM Molded IPS Reducers

BLACK PE 3408 HDPE

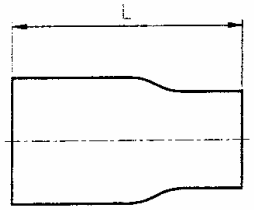
FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions A x B X L(in)	Standard Item	Weight per Item (lbs.)
3" X 2" 3.50" X 2.375"	150	DR 11	3.00 X 2.75 X 6.75	Y	.8
	200	DR 9		Y	.8
4" X 2" 4.50" X 2.375"	150	DR 11	3.00 X 2.25 X 7.50	Y	1
	200	DR 9		Y	1
4" X 3" 4.50" X 3.50"	150	DR 11	3.00 X 2.75 X 6.75	Y	1.4
	200	DR 9		Y	1.4
6" X 4" 6.63" X 4.50"	150	DR 11	3.00 X 3.50 X 8.00	Y	5
	200	DR 9		Y	5
8" X 6" 8.63" X 6.63"	150	DR 11	4.50 X 4.50 X 11.00	Y	8
	200	DR 9		Y	8

Dimensions and weights are approximate and subject to change. June 2007 Supersedes all previous

INDUSTRIAL PIPE FITTINGS, LLC

HOUSTON, TX / CORSICANA , TX / MISSOULA, MT



FM IPS Swage Reducer

BLACK ASTM F714 HDPE

Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions L (in)	Std. Item	Weight per Item (lbs.)
10” X 8”	150	16	Y	16
10.750” X 8.625”	200		Y	19
12” X 8”	150	17	Y	23
12.750” X 8.625”	200		Y	28
12” X 10”	150	16	Y	23
12.750” X 10.75”	200		Y	28
14” X 10”	150	18	Y	30
14.000” X 10.75”	200		Y	35
14” X 12”	150	18	Y	33
14.000” X 12.75”	200		Y	39
16” X 14”	150	18	Y	42
16.000” X 14.00”	200		Y	50
18” X 14”	150	18	Y	49
18.000” X 14.00”	200		Y	59
18” X 16”	150	18	Y	54
18.000” X 16.00”	200		Y	65
20” X 18”	150	20	N	75
20.000” X 18.00”	200		N	89
22” X 20”	150	20	N	92
22.000” X 20.00”	200		N	109
24” X 22”	150	20	N	110
24.000” X 22.00”	200		N	138

Dimensions and weights are approximate and subject to change.

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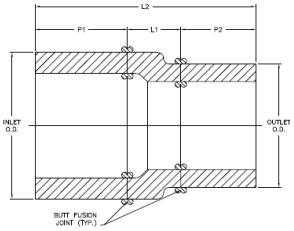

FM IPS Fabricated Concentric Reducer

BLACK ASTM F714 HDPE

Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions L (in)	Std. Item	Weight per Item (lbs.)
10” X 8”	150	17.47	N	16
10.750” X 8.625”	200		N	19
12” X 8”	150	19.68	N	23
12.750” X 8.625”	200		N	28
12” X 10”	150	19.13	N	23
12.750” X 10.75”	200		N	28
14” X 12”	150	20.90	N	33
14.000” X 12.75”				
16” X 12”	150	21.72	N	42
16.000” X 14.00”				
16” X 14”	150	22.00	N	42
16.000” X 14.00”				
18” X 14”	150	22.77	N	49
18.000” X 14.00”				
18” X 16”	150	22.22	N	54
18.000” X 16.00”				

Shorter multi-step reducers can be built by fusing multiple center cones together - Call for quote.

Dimensions and weights are approximate and subject to change.

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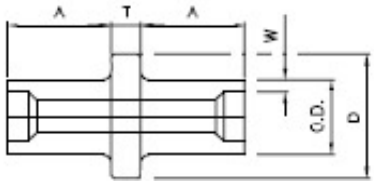

FM IPS Wall Anchor / Thrust Anchor

BLACK ASTM F714 HDPE

FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	Feed Stock	Dimensions A x T x D (in)	Std. Item	Weight per Item (lbs.)
3” 3.500”	160	DR 9	5 1/2 x 3/4 x 4 1/2	N	2
	200	DR 7		N	2
4” 4.500”	160	DR 9	5 1/2 x .9 x 6 5/8	N	4
	200	DR 7		N	4
6” 6.625”	160	DR 9	7 x 1.3 x 8 5/8	N	8
	200	DR 7		N	12
8” 8.625”	160	DR 9	7 x 1.73 x 10 3/4	N	12
	200	DR 7		N	22
10” 10.750”	160	DR 9	7 x 2.15 x 12 3/4	N	20
	200	DR 7		N	34
12” 12.750”	160	DR 9	7 x 2.5 x 16	N	36
	200	DR 7		N	52
14” 14.000”	160	DR 9	10 x 2.8 x 18	N	56
	200	DR 7		N	80
16” 16.000”	160	DR 9	10 x 3.2 x 20	N	74
	200	DR 7		N	106
18” 18.000”	160	DR 9	10 x 3.375 x 20	N	88
	200	DR 7		N	110
20” 20.000”	160	DR 9	10 x 3.375 x 24	N	112
	200	DR 7		N	140
22” 22.000”	160	DR 9	10 x 3.375 x 26	N	136
	200	DR 7		N	170
24” 24.000”	160	DR 9	10 x 3.375 x 28	N	168
	200	DR 7		N	204

20” TO 24” Class 200 Wall Anchors will be tested soon — Call for quote.

Dimensions and weights are approximate and subject to change.

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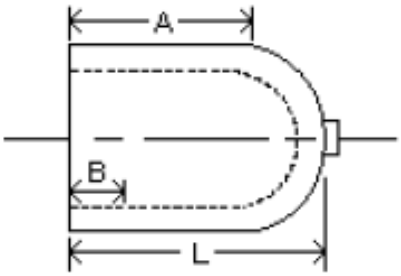

FM Molded IPS Caps

BLACK PE 3408 HDPE
FACTORY MUTUAL APPROVED
(10" AND 12" ARE FABRICATED)

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions A x B X L(in)	Standard Item	Weight per Item (lbs.)
2"	150	DR 11	2.25 X 1.50 X 2.875	Y	.3
2.375"	200	DR 9		Y	.3
3"	150	DR 11	3.00 X 1.50 X 3.25	Y	.5
4350"	200	DR 9		Y	.5
4"	150	DR 11	3.00 X 1.50 X 4.00	Y	1.0
4.50"	200	DR 9		Y	1.0
6"	150	DR 11	2.875 X 1.50 X 4.50	Y	2.4
6.63"	200	DR 9		Y	2.4
8"	150	DR 11	2.125 X 1.50 X 4.75	Y	4.4
8.63"	200	DR 9		Y	4.4
*10"	150	DR 11	1.0 X 3.0 X 4.00	Y	6.5
10.75"	200	DR 9		Y	6.5
*12"	150	DR 11	1.0 X 4.0 X 5.00	Y	15.5
12.75"	200	DR 9		Y	15.5

* 10" and 12" are Fabricated

Dimensions and weights are approximate and subject to change

June 2007 Supersedes all previous .

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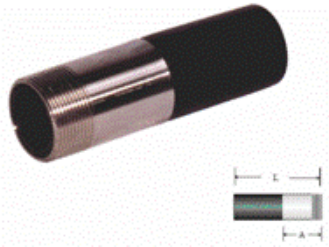

FM Full Bore NPT Transition Fitting

AVAILABLE IN 316 S.S. AND BRASS
BLACK PE 3408 HDPE PIPE
FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	Feed Stock	Dimensions A x L (in)	Std. Item	Weight per Item (lbs.)
2” 2.375”	150	DR 11	4 x 9	Y	1.50
	200	DR 9		Y	1.50
3” 3.500”	150	DR 11	5 x 9	Y	3.00
	200	DR 9		Y	3.00
4” 4.500”	150	DR 11	4 1/2 X 9	Y	4.00
	200	DR 9		Y	4.00

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