



WOLSELEY

INDUSTRIAL GROUP

FACTORY MUTUAL APPROVED HDPE PIPE AND
FITTINGS FOR UNDERGROUND FIRE PROTECTION

Trust Earned Through Performance

ISO 9001:2015

Factory Mutual Approved HDPE Pipe and Fittings for Underground Fire Protection



We are proud to announce availability of the world's most comprehensive selection of Factory Mutual approved HDPE pipe and fittings.

Availability covers the complete range of IPS sizes from 2" through 24" in class 150, and class 200. Additionally, we have FM Class 267 HDPE pipe and fittings in sizes from 2" to 24".

*** All items marked with an asterisk are purchased from others with FM approval on these items**

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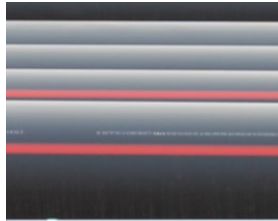
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* items marked with an asterisk are purchased from others with FM approval on these items



FM IPS Pipe
BLACK PE 4710 / 3608 / 3408 HDPE
FACTORY MUTUAL APPROVED
AVAILABLE IN BLACK OR WITH RED STRIPE

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>Min. Wall / I.D. (in)</u>	<u>Standard Item</u>	<u>Weight per foot (lbs.)</u>
*2" 2.375"	150	DR 11	0.216 / 1.917	Y	0.642
	200	DR 9	0.264 / 1.816	Y	0.766
	267	DR 7	0.339 / 1.656	Y	0.948
*3" 3.50"	150	DR 11	0.318 / 2.825	Y	1.395
	200	DR 9	0.389 / 2.676	Y	0.642
	267	DR 7	0.500 / 2.440	Y	2.058
*4" 4.50"	150	DR 11	0.409 / 3.663	Y	2.306
	200	DR 9	0.500 / 3.440	Y	2.751
	267	DR 7	0.643 / 3.137	Y	3.402
*6" 6.625	150	DR 11	0.602 / 5.348	Y	4.997
	200	DR 9	0.736 / 5.064	Y	5.963
	267	DR 7	0.946 / 4.619	Y	7.374
*8" 8.625"	150	DR 11	0.784 / 6.963	Y	8.470
	200	DR 9	0.958 / 6.593	Y	10.106
	267	DR 7	1.232 / 6.013	Y	12.498
*10" 10.75"	150	DR 11	0.977 / 8.678	Y	13.157
	200	DR 9	1.194 / 8.218	Y	15.618
	267	DR 7	1.536 / 7.494	Y	19.416
*12" 12.75"	150	DR 11	1.159 / 10.293	Y	18.508
	200	DR 9	1.417 / 9.747	Y	22.085
	267	DR 7	1.821 / 8.889	Y	27.312
*14" 14.00"	150	DR 11	1.273 / 11.302	Y	22.315
	200	DR 9	1.556 / 10.702	y	26.628
	267	DR 7	2.000 / 9.760	y	32.930
*16" 16.00"	150	DR 11	1.455 / 12.916	Y	29.146
	200	DR 9	1.778 / 12.231	Y	34.779
	267	DR 7	2.286 / 11.154	Y	43.010
*18" 18.00"	150	DR 11	1.636 / 14.531	Y	36.888
	200	DR 9	2.000 / 13.760	Y	44.017
	267	DR 7	2.571 / 12.549	Y	54.435
*20" 20.00"	150	DR 11	1.818 / 16.145	Y	45.541
	200	DR 9	2.222 / 15.289	Y	54.342
	267	DR 7	2.857 / 13.943	Y	67.203
*22" 20.00"	150	DR 11	2.000 / 17.760	Y	55.105
	200	DR 9	2.445 / 16.818	Y	65.754
*24" 20.00"	150	DR 11	2.182 / 19.375	Y	65.579
	200	DR 9	2.667 / 18.347	Y	78.253
	267	DR 7	3.429 / 16.731	Y	95.916



FM IPS Pipe

BLACK PE 4710 / 3608 / 3408 HDPE
FACTORY MUTUAL APPROVED
AVAILABLE IN BLACK OR WITH RED STRIPE

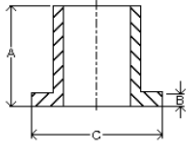
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>Min. Wall / I.D. (in)</u>	<u>Standard Item</u>	<u>Weight per foot (lbs.)</u>
*26" 26.000"	150	DR 11	2.364 / 20.989	N	77.440
	200	DR 9	2.889 / 19.876	N	92.535
*28" 28.000"	150	DR 11	2.545 / 22.604	N	89.785
	200	DR 9	3.111 / 21.404	N	107.312
*30" 30.000"	150	DR 11	2.727 / 24.218	N	102.467
	200	DR 9	3.333 / 22.933	N	122.270
*32" 32.000"	150	DR 11	2.909 / 25.833	N	116.585
	200	DR 9	3.556 / 24.462	N	139.116
*34" 34.000"	150	DR 11	3.091 / 27.447	N	131.613
	200	DR 9	3.778 / 25.991	N	157.049
*36" 36.000	150	DR 11	3.273 / 29.062	N	147.553
	200	DR 9	4.000 / 27.520	N	176.069

FM Approved HDPE pipe complies with AWWA C906-15, NFPA 24, FM 1613, and is NSF-61 certified for potable water service.

Pressure Capabilities for Water at 108 deg. F (42 deg. C) and lower, psi (kPa)					
Class	Operating	Surge Pressure Allowance		Maximum Pressure—Operating plus Surge	
	Pressure	Occasional	Recurring	Occasional	Recurring
150	150 (1034)	150 (1034)	75 (517)	300 (2069)	225 (1552)
200	200 (1379)	200 (1379)	100 (690)	400 (2759)	300 (2069)
267	267 (1841)	267 (1841)	133 (920)	534 (3683)	400 (2759)

Working Pressure, psi (kPa)				
Sustained Operating Temperature		Class 150	Class 200	Class 267
Deg. F	Deg. C			
≤ 108	≤ 42	150 (1034)	200 (1379)	267 (1841)
110	43	146 (1007)	195 (1345)	260 (1793)
115	46	142 (979)	190 (1310)	253 (1745)
120	49	136 (938)	183 (1262)	243 (1676)
125	52	133 (917)	178 (1228)	237 (1634)
130	54	127 (876)	170 (1172)	227 (1566)
135	57	121 (834)	163 (1124)	217 (1497)
140	60	118 (814)	158 (1090)	210 (1448)

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 Web: hdpe.com and wolseleyindustrialgroup.com

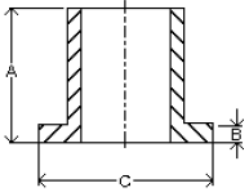


FM IPS Flange Adapter
BLACK PE 4710 / 3608 / 3408 HDPE
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>A x B X C(in)</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
2" 2.375"	150	DR 11	6.00 X 0.35 X 3.75	Y	.33
	200	DR 9	6.00 X 0.49 X 3.75	Y	.40
	267	DR 7	6.00 X 0.49 X 3.75	Y	.40
3" 3.50"	150	DR 11	6.00 X 0.47 X 4.75	Y	.83
	200	DR 9	6.00 X 0.68 X 4.75	Y	1.00
	267	DR 7	6.00 X 0.68 X 4.75	Y	1.00
4" 4.50"	150	DR 11	6.00 X 0.57 X 6.00	Y	1.70
	200	DR 9	6.00 X 0.84 X 6.00	Y	2.10
	267	DR 7	6.00 X 0.84 X 6.00	Y	2.10
6" 6.625	150	DR 11	8.00 X 0.79 X 8.13	Y	6.00
	200	DR 9	8.00 X 1.19 X 8.13	Y	6.60
	267	DR 7	8.00 X 1.19 X 8.13	Y	6.60
8" 8.625"	150	DR 11	8.63 X 1.00 X 10.75	Y	9.00
	200	DR 9	8.63 X 1.52 X 10.75	Y	10.00
	267	DR 7	8.63 X 1.52 X 10.75	Y	10.00
10" 10.75"	150	DR 11	8.75 X 1.22 X 12.75	Y	11.00
	200	DR 9	8.75 X 1.87 X 12.75	Y	15.00
	267	DR 7	8.75 X 1.87 X 12.75	Y	15.00
12" 12.75"	150	DR 11	9.13 X 1.43 X 15.50	Y	17.00
	200	DR 9	9.13 X 2.20 X 15.50	Y	22.00
	267	DR 7	9.13 X 2.20 X 15.50	Y	22.00
14" 14.00"	150	DR 11	11.50 X 1.56 X 17.00	Y	28.00
	200	DR 9	11.50 X 2.40 X 17.00	y	35.00
	267	DR 7	11.50 X 2.40 X 17.00	y	35.00
16" 16.00"	150	DR 11	11.50 X 1.80 X 19.50	Y	33.00
	200	DR 9	11.50 X 2.75 X 19.50	Y	45.00
	267	DR 7	11.50 X 2.75 X 19.50	Y	45.00
18" 18.00"	150	DR 11	11.50 X 2.01 X 20.13	Y	41.00
	200	DR 9	11.50 X 3.08 X 20.13	Y	54.00
	267	DR 7	11.50 X 3.08 X 20.13	Y	54.00
20" 20.00"	150	DR 11	12.00 X 2.22 X 23.31	Y	56.00
	200	DR 9	12.00 X 3.41 X 23.31	Y	70.00
	267	DR 7	12.00 X 3.41 X 23.31	Y	70.00
22" 20.00"	150	DR 11	12.00 X 2.42 X 25.25	Y	68.00
	200	DR 9	12.00 X 3.74 X 25.25	Y	85.00
	267	DR 7	12.00 X 3.06 X 25.6	Y	90.00
24" 20.00"	150	DR 11	12.00 X 2.63 X 27.69	Y	83.00
	200	DR 9	12.00 X 4.07 X 27.69	Y	83.00
	267	DR 7	14.00 X 3.33 X 28.00	Y	95.00

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous



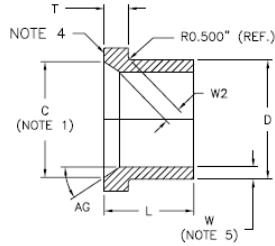
FM IPS Flange Adapter
BLACK PE 4710 / 3608 / 3408 HDPE
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>A x B X C(in)</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
*26" 26.000"	150	DR 11	15.00 X 2.96 X 30.00	N	.33
	200	DR 9	15.00 X 3.61 X 30.00	N	.40
*28" 28.000"	150	DR 11	15.00 X 3.18 X 32.30	N	.83
	200	DR 9	15.70 X 3.89 X 32.30	N	1.00
*30" 30.000"	150	DR 11	15.00 X 3.41 X 34.30	N	1.70
	200	DR 9	15.80 X 4.17 X 34.30	N	2.10
*32" 32.000	150	DR 11	15.00 X 3.64 X 36.50	N	6.00
*34" 34.000"	150	DR 11	15.00 X 3.86 X 38.50	N	9.00
*36" 36.000"	150	DR 11	16.50 X 4.09 X 40.80	N	11.00

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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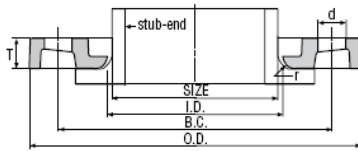


FM IPS Beveled Flange Adapter
BLACK PE 4710 / 3608 / 3408 HDPE
FACTORY MUTUAL APPROVED
ALLOWS FULL DISC CLEARANCE FOR PRATT GROUNDHOG FM
BUTTERFLY VALVES (AND MOST OTHERS)

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>L x T (in)</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
*2" 2.375"	150	DR 11	6.56 X 0.55	N	.33
	200	DR 9	6.68 X 0.67	N	.40
	267	DR 7	6.68 X 0.67	N	.40
*3" 3.50"	150	DR 11	6.53 X 0.63	N	.83
	200	DR 9	6.71 X 0.81	N	1.00
	267	DR 7	6.71 X 0.81	N	1.00
*4" 4.50"	150	DR 11	7.35 X 0.68	N	1.70
	200	DR 9	7.97 X 1.26	N	2.10
	267	DR 7	7.97 X 1.26	N	2.10
*6" 6.625	150	DR 11	7.57 X 0.86	N	6.00
	200	DR 9	7.59 X 1.96	N	6.60
	267	DR 7	7.59 X 1.96	N	6.60
*8" 8.625"	150	DR 11	7.09 X 1.45	N	9.00
	200	DR 9	7.59 X 1.96	N	10.00
	267	DR 7	7.59 X 1.96	N	10.00
*10" 10.75"	150	DR 11	8.58 X 2.15	N	11.00
	200	DR 9	9.20 X 2.78	N	15.00
	267	DR 7	9.20 X 2.78	N	15.00
*12" 12.75"	150	DR 11	10.65 X 2.68	N	17.00
	200	DR 9	11.38 X 3.40	N	22.00
	267	DR 7	11.38 X 3.40	N	22.00
*14" 14.00"	150	DR 11	12.00 X 1.64	N	28.00
	200	DR 9	13.00 X 2.33	N	35.00
	267	DR 7	13.00 X 2.33	N	35.00
*16" 16.00"	150	DR 11	13.00 X 2.36	N	33.00
	200	DR 9	14.00 X 3.16	N	45.00
	267	DR 7	14.00 X 3.16	N	45.00
*18" 18.00"	150	DR 11	13.00 X 3.11	N	41.00
	200	DR 9	14.00 X 4.01	N	54.00
	267	DR 7	14.00 X 4.01	N	54.00
*20" 20.00"	150	DR 11	14.00 X 3.87	N	56.00
	200	DR 9	15.00 X 4.88	N	70.00
	267	DR 7	15.00 X 4.88	N	70.00
*22" 20.00"	150	DR 11	15.00 X 4.65	N	68.00
	200	DR 9	15.00 X 5.76	N	85.00
*24" 20.00"	150	DR 11	15.00 X 5.42	N	83.00
	200	DR 9	16.00 X 6.64	N	83.00

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous



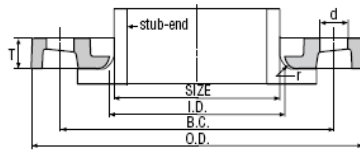
FM IPS D.I. Backup Ring
ASTM A536 D.I.(65/45/12) ANSI B 16.5 CLASS 150
FACTORY MUTUAL APPROVED
RED OXIDE COATING STANDARD—OTHER FINISHES AVAIL.

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

.Dimensions and weights are approximate and subject to change

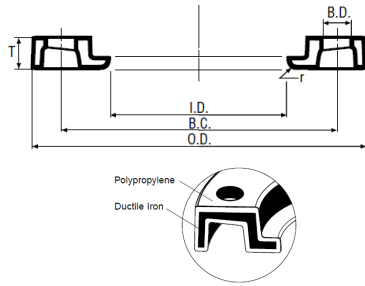
Feb. 2017 Supersedes all previous



FM IPS D.I. Backup Ring
ASTM A536 D.I.(65/45/12) ANSI B 16.5 CLASS 150
FACTORY MUTUAL APPROVED
RED OXIDE COATING STANDARD—OTHER FINISHES AVAIL.

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>O.D. x I.D. X T (in)</u>	<u>No. Bolts / Bolt Diameter</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
*26" 26.000"	150	DR 11	34.25 X 26.38 X 2.50	24 / 1-1/4"	N	109.00
	200	DR 9			N	109.00
*28" 28.000"	150	DR 11	36.50 X 28.38 X 2.59	28 / 1-1/4"	N	130.00
	200	DR 9			N	130.00
*30" 30.000"	150	DR 11	38.75 X 30.38 X 2.47	28 / 1-1/4"	N	139.00
	**200	DR 9	39.00 X 30.25 X 3.00		N	368.00
*32" 32.000	150	DR 11	41.75 X 32.38 X 2.56	28 / 1-1/4"	N	165.00
*34" 34.000"	150	DR 11	43.75 X 34.38 X 2.88	32 / 1-1/2"	N	191.00
*36" 36.000"	150	DR 11	46.00 X 36.38 X 3.00	32 / 1-1/2"	N	214.00

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.



FM IPS Polypro/D.I. Backup Ring
ASTM A536 D.I.(65/45/12) ANSI B 16.5 CLASS 150
FACTORY MUTUAL APPROVED
G.F. POLYPROPYLENE ENCAPSULATED DUCTILE IRON

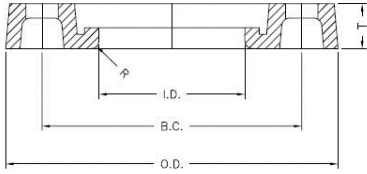
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>O.D. x I.D. X T (in)</u>	<u>No. Bolts / Bolt</u> <u>Diameter</u>	<u>Standard</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*2" 2.375"	150 200	DR 11 DR 9	6.46 X 2.63 X 0.71	4 / 5/8"	Y	1.80
					Y	1.80
*3" 3.50"	150 200	DR 11 DR 9	7.72 X 3.75 X 0.73	4 / 5/8"	Y	2.40
					Y	2.40
*4" 4.50"	150 200	DR 11 DR 9	9.33 X 4.75 X 0.98	8 / 5/8"	Y	4.20
					Y	4.20
*6" 6.625	150 200	DR 11 DR 9	11.69 X 7.09 X 1.18	8 / 3/4"	Y	7.10
					Y	7.10
*8" 8.625"	150 200	DR 11 DR 9	13.94 X 8.88 X 1.34	8 / 3/4"	Y	11.60
					Y	11.60
*10" 10.75"	150 200	DR 11 DR 9	16.73 X 11.00 X 1.52	12 / 7/8"	Y	16.00
					Y	16.00
*12" 12.75"	150 200	DR 11 DR 9	19.57 X 13.19 X 2.01	12 / 7/8"	Y	28.20
					Y	28.20
*14" 14.00"	150 200	DR 11 DR 9	21.34 X 14.38 X 2.05	12 / 1"	Y	35.70
					Y	35.70
*16" 16.00"	150 200	DR 11 DR 9	23.90 X 16.38 X 2.44	16 / 1"	Y	66.40
					Y	66.40
*18" 18.00"	150 200	DR 11 DR 9	25.51 X 18.38 X 2.44	16 / 1-1/8"	Y	60.60
					Y	60.60
*20" 20.00"	150 200	DR 11 DR 9	27.99 X 20.38 X 2.68	20 / 1-1/8"	Y	93.50
					Y	93.50
*22" 20.00"	150 200	DR 11 DR 9	30.31 X 22.38 X 3.19	20 / 1-1/4"	Y	104.90
					Y	104.90
*24" 24.00"	150 200	DR 11 DR 9	32.52 X 24.38 X 3.19	20 / 1-1/4"	Y	142.20
					Y	142.20

Features:
More corrosion resistant than Stainless Steel, and at a lower cost.

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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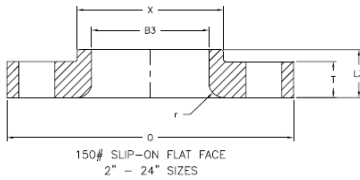


316 Stainless Steel Backup Ring
ASTM A351 CF8M STAINLESS STEEL
ANSI B 16.5 CLASS 150
FACTORY MUTUAL APPROVED

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

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FM IPS Forged Steel Backup Ring

ASTM A105 FORGED STEEL—ANSI B16.5 CLASS 150

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" 2.375"	150	DR 11	6.00 X 2.46 X 0.69	4 / 5/8"	Y	5.00
	200	DR 9			Y	5.00
	267	DR 7			Y	5.00
3" 3.50"	150	DR 11	7.50 X 3.60 X 0.88	4 / 5/8"	Y	8.00
	200	DR 9			Y	8.00
	267	DR 7			Y	8.00
4" 4.50"	150	DR 11	9.00 X 4.60 X 0.88	8 / 5/8"	Y	13.00
	200	DR 9			Y	13.00
	267	DR 7			Y	13.00
6" 6.625	150	DR 11	11.00 X 6.75 X 0.94	8 / 3/4"	Y	19.00
	200	DR 9			Y	19.00
	267	DR 7			Y	19.00
8" 8.625"	150	DR 11	13.50 X 8.75 X 1.06	8 / 3/4"	Y	30.00
	200	DR 9			Y	30.00
	267	DR 7			Y	30.00
10" 10.75"	150	DR 11	16.00 X 10.92 X 1.13	12 / 7/8"	Y	43.00
	200	DR 9			Y	43.00
	267	DR 7			Y	43.00
12" 12.75"	150	DR 11	19.00 X 12.92 X 1.19	12 / 7/8"	Y	64.00
	200	DR 9			Y	64.00
	267	DR 11			Y	64.00
14" 14.00"	150	DR 11	21.00 X 14.18 X 1.31	12 / 1"	Y	90.00
	200	DR 9			Y	90.00
	267	DR 7			Y	90.00
16" 16.00"	150	DR 11	23.50 X 16.19 X 1.38	16 / 1"	Y	98.00
	200	DR 9			Y	98.00
	267	DR 7			Y	98.00
18" 18.00"	150	DR 11	25.00 X 18.20 X 1.50	16 / 1-1/8"	Y	130.00
	200	DR 9			Y	130.00
	267	DR 7			Y	130.00
20" 20.00"	150	DR 11	27.50 X 20.38 X 1.63	20 / 1-1/8"	Y	165.00
	200	DR 9			Y	165.00
	267	DR 7			Y	165.00

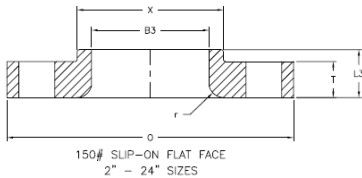
Rings can also be furnished hot dip galvanized, epoxy coated, teflon coated, or any finish as specified by the engineer — Price on request
Domestic FM rings are also available in A105 forged carbon steel lap joint rings— Price on request

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

Wolseley Industrial Group—Industrial Plastics Division

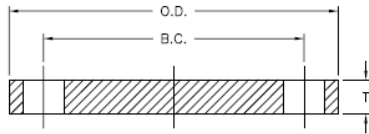
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FM IPS Forged Steel Backup Ring
ASTM A105 FORGED STEEL—ANSI B16.5 CLASS 150
FACTORY MUTUAL APPROVED
MILL LAQUER COATING STANDARD—OTHER FINISHES AVAIL.

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>O.D. x I.D. X T(in)</u>	<u>No. Bolts / Bolt Diameter</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
22" 22.00"	150 200	DR 11 DR 9	27.50 X 20.38 X 1.63	20 / 1-1/8"	Y	165.00
24" 24.00"	150 200	DR 11 DR 9			Y	220.00
			32.00 X 24.38 X 1.81	20 / 1-1/4"	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 request
 Domestic FM rings are also available in A105 forged carbon steel lap joint rings—Price on request.



FM IPS Forged Steel Blind Flange

ASTM A105 FORGED STEEL

FACTORY MUTUAL APPROVED

MILL LAQUER COATING STANDARD—OTHER FINISHES

AVAILABLE ON REQUEST

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

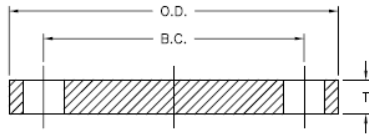
Blinds can also be furnished hot dip galvanized, epoxy coated, Teflon coated, or any finish as specified by the engineer — Price on request
Domestic FM blinds are also available in A105 forged carbon steel — Price on request.

Dimensions and weights are approximate and subject to change

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Wolseley Industrial Group—Industrial Plastics Division

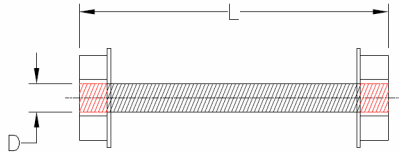
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FM IPS Forged Steel Blind Flange
ASTM A105 FORGED STEEL
FACTORY MUTUAL APPROVED
MILL LAQUER COATING STANDARD—OTHER FINISHES
AVAILABLE ON REQUEST

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>O.D. x B.C. X T(in)</u>	<u>No. Bolts / Bolt Diameter</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
22" 20.00"	150	DR 11	27.50 X 25.00 X 1.69	20 / 1-1/8"	N	285.00
	200	DR 9			N	285.00
24" 24.00"	150	DR 11	32.00 X 29.50 X 1.88	20 / 1-1/4"	N	430.00
	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 request
 Domestic FM blinds are also available in A105 forged carbon steel — Price on request



FM Approved Bolt Kits
ASTM A193 GRADE B7 STUD WITH A193 2H NUTS
AND HEAVY FLAT WASHERS
CAN BE USED WITH ALL FM PRESSURE CLASSES
STANDARD BLACK C.S. OR 316 S.S.

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>SDR</u>	<u>Number</u> <u>of bolts</u> <u>required</u>	<u>Dimensions</u> <u>D x L (in)</u> <u>HDPE TO HDPE Flange</u>	<u>Dimensions</u> <u>D x L (in)</u> <u>HDPE TO Metal Flange</u>	<u>Standard</u> <u>Item</u>	<u>Weight per</u> <u>set (lbs.)</u>
2" 2.375"	267	DR 7	4	5/8 X 4 1/2	5/8 X 4	Y	1.45
3" 3.50"	267	DR 7	4	5/8 X 5 1/2	5/8 X 4 1/2	Y	2.52
4" 4.50"	267	DR7	8	5/8 X 5 1/2	5/8 X 5	Y	5.405
6" 6.625	267	DR7	8	3/4 X 7	3/4 X 5 1/2	Y	9.21
8" 8.625"	267	DR 7	8	3/4 X 7 1/2	3/4 X 6	Y	9.60
10" 10.75"	267	DR 7	12	7/8 X 9	7/8 X 7	Y	22.80
12" 12.75"	267	DR 7	12	7/8 X 10	7/8 X 7 1/2	Y	24.50
14" 14.00"	267	DR 7	12	1 X 11	1 X 8 1/2	Y	35.10
16" 16.00"	267	DR 7	16	1 X 12	1 X 9	Y	50.00
18" 18.00"	267	DR 7	16	1 1/8 X 13	1 1/8 X 9 1/2	Y	69.10
20" 20.00"	267	DR 7	20	1 1/8 X 14	1 1/8 X 10 1/2	Y	91.20
24" 24.00"	267	DR 7	20	1 1/4 X 15	1 1/4 X 11 1/2	Y	121.30

Can be furnished black or coated Blue Xylan (TFE) coating—HD Galvanized, or other finishes are available on request

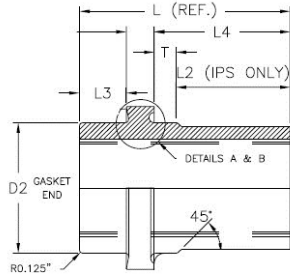
316 S.S. also available on request

Gaskets are not recommended for high pressure FM installations, and are not included

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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FM IPS MJ Adapter
BLACK PE 4710 / 3608 / 3408 HDPE
FACTORY MUTUAL APPROVED
FURNISHED WITH STAINLESS STEEL STIFFENER

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>L x L₂ (in)</u>	<u>No. Bolts / Bolt</u> <u>Diameter</u>	<u>Standard</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*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

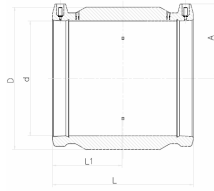
MJ Accessory Kits are AWWA—not FM approved
MJ adapters are designed to clear the disc of MJ butterfly valves

Note: the fusion end is of sufficient length for use with electro-fusion couplings

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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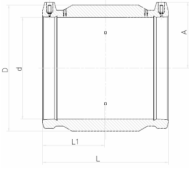
FM IPS Electro-Fusion Coupling

BLACK PE 4710 / 3608 /3408 HDPE

FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>D x L (in)</u>	<u>Standard</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*2" 2.375"	150	DR 11	3.23 X 4.61	Y	0.60
	200	DR 9		Y	0.60
*3" 3.50"	150	DR 11	4.65 X 5.87	Y	1.32
	200	DR 9		Y	1.32
*4" 4.50"	150	DR 11	6.51 X 6.14	Y	1.67
	200	DR 9		Y	1.67
*6" 6.625	150	DR 11	8.70 X 8.35	Y	4.36
	200	DR 9		Y	4.36
*8" 8.625"	150	DR 11	11.20 X 9.48	Y	8.45
	200	DR 9		Y	8.45
*10" 10.75"	150	DR 11	13.41 X 10.50	Y	15.24
	200	DR 9		Y	15.24
*12" 12.75"	150	DR 11	15.84 X 11.50	Y	23.90
	200	DR 9		Y	23.90
*14" 14.00"	150	DR 11	17.24 X 12.13	Y	35.19
	200	DR 9		Y	35.19
*16" 16.00"	150	DR 11	19.65 X 13.54	Y	47.10
	200	DR 9		Y	47.10
*18" 18.00"	150	DR 11	22.13 X 14.96	Y	65.60
	200	DR 9		Y	65.60
*20" 20.00"	150	DR 11	24.57 X 16.46	Y	91.50
	200	DR 9		Y	91.50
*22" 20.00"	150	DR 11	29.13 X 15.75	Y	156.40
	200	DR 9		Y	156.40
*24" 24.00"	150	DR 11	30.59 X 19.50	Y	176.00
	200	DR 9		Y	176.00

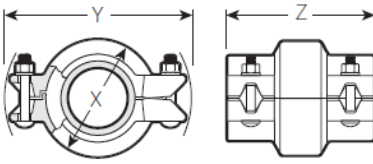
Dimensions may vary by manufacturer



FM IPS Electro-Fusion Coupling
BLACK PE 4710 / 3608 /3408 HDPE
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>D x L (in)</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
*26" 26.000"	150	DR 11	32.28 X 17.32	N	132.72
	200	DR 9		N	0.60
*28" 28.000"	150	DR 11	34.65 X 17.52	N	198.52
	200	DR 9		N	198.52
*30" 30.000"	150	DR 11	37.01 X 17.52	N	223.98
	200	DR 9		N	223.98
*32" 32.000"	150	DR 11	39.17 X 18.50	N	257.20
	200	DR 9		N	257.20

Dimensions may vary by manufacturer



FM IPS Plain End Coupling

DUCTILE IRON MEETS ASTM A536 65-45-12
FACTORY MUTUAL APPROVED
CLASS 200 CAN BE USED FOR CLASS 150 AND 200

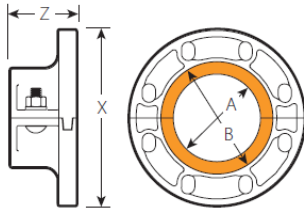
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>X x Y x Z (in)</u>	<u>Standard</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*2" 2.375"	200	DR 9	3.69 X 5.94 x 3.63	Y	3.50
*3" 3.50"	200	DR 9	4.63 x 7.00 x 4.56	Y	7.70
*4" 4.50"	200	DR 9	5.58 x 8.13 x 5.81	Y	11.60
*6" 6.625	200	DR 9	8.00 x 10.88 x 5.88	Y	16.40
*8" 8.625"	200	DR 9	10.19 x 13.25 x 6.00	Y	24.90
*10" 10.75"	200	DR 9	12.38 x 15.88 x 6.50	Y	37.40
*12" 12.75"	200	DR 9	14.38 x 18.00 x 7.00	Y	49.00
*14" 14.00"	200	DR 9	16.25 x 19.88 x 8.58	Y	81.00
*16" 16.00"	200	DR 9	18.30 x 23.88 x 9.00	N	100.00
*18" 18.00"	200	DR 9	20.30 x 25.63 x 9.50	N	127.00
*20" 20.00"	200	DR 9	22.30 x 27.44 x 10.00	N	142.00

Standard Finish is enamel—HD Galvanized, electroplated, epoxy, or other finishes are available on request
Standard bolts and nuts are carbon steel electro zinc plated — Hot dip galvanized and stainless steel is available on request
Standard gasket material is EPDM - hydrocarbon resistant Nitrile is available on request

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

Wolseley Industrial Group—Industrial Plastics Division
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FM IPS Plain End Flange
DUCTILE IRON MEETS ASTM A536 65-45-12
FACTORY MUTUAL APPROVED
CLASS 200 CAN BE USED FOR CLASS 150 AND 200

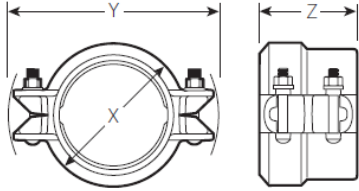
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>A x B x X x Z (in)</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
*4" 4.50"	200	DR 9	4.50 x 5.78 x 9.00 x 3.38	Y	12.50
*6" 6.625	200	DR 9	6.63 x 7.97 x 11.00 x 4.00	Y	17.30
*8" 8.625"	200	DR 9	8.63 x 10.00 x 13.50 x 4.50	Y	30.80

Flange drilling meets ANSI B16.5 Class 150, ANSI B16.1 Class 125, and AWWA C207
 Standard Finish is enamel—HD Galvanized, electroplated, epoxy, or other finishes are available on request
 Standard bolts and nuts are carbon steel electro zinc plated — Hot dip galvanized and stainless steel is available on request
 Standard gasket material is EPDM - hydrocarbon resistant Nitrile is available on request

Dimensions and weights are approximate and subject to change

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FM IPS Plain End Groove Transition
DUCTILE IRON MEETS ASTM A536 65-45-12
FACTORY MUTUAL APPROVED
CLASS 200 CAN BE USED FOR CLASS 150 AND 200

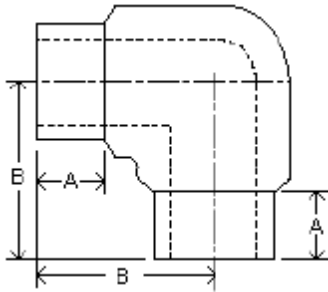
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>X x Y x Z (in)</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
*2" 2.375"	200	DR 9	3.31 x 5.44 x 2.78	Y	3.00
*3" 3.50"	200	DR 9	4.38 x 6.99 x 3.20	Y	6.60
*4" 4.50"	200	DR 9	5.68 x 8.25 x 3.90	Y	8.40
*6" 6.625	200	DR 9	7.84 x 11.25 x 4.00	Y	14.80
*8" 8.625"	200	DR 9	10.18 x 13.96 x 4.16	Y	21.70
*10" 10.75"	200	DR 9	12.63 x 16.81 x 4.56	Y	34.30
*12" 12.75"	200	DR 9	14.58 x 18.76 x 4.85	Y	37.50

Facilitates transition from plain end HDPE to grooved steel pipe and fittings
Standard Finish is enamel—HD Galvanized, electroplated, epoxy, or other finishes are available on request
Standard bolts and nuts are carbon steel electro zinc plated — Hot dip galvanized and stainless steel is available on request
Standard gasket material is EPDM - hydrocarbon resistant Nitrile is available on request

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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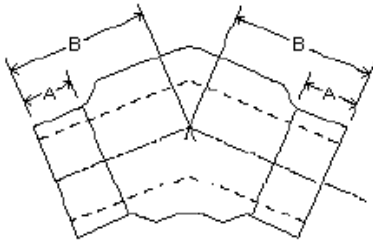
FM Molded IPS 90° Ells
BLACK PE 4710 / 3608 / 3408 HDPE
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>A x B (in)</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
2" 2.38"	150	DR 11	2.5 X 4.0	Y	.80
	200	DR 9		Y	.80
	267	DR 7		Y	.80
3" 3.50"	150	DR 11	3.0 X 5.5	Y	2
	200	DR 9		Y	2
	267	DR 7		Y	2
4" 4.50"	150	DR 11	3.0 X 6.0	Y	4
	200	DR 9		Y	4
	267	DR 7		Y	4
6" 6.63"	150	DR 11	4.0 X 8.0	Y	7.5
	200	DR 9		Y	7.5
	267	DR 7		Y	7.5
8" 8.63"	150	DR 11	6.0 X 11.80	Y	21
	200	DR 9		Y	22
	267	DR 7		Y	24
*10" 10.75"	150	DR 11	6.00 X 13.25	Y	37.5
	200	DR 9		Y	43.5
*12" 12.75"	150	DR 11	7.50 X 15.88	Y	54
	200	DR 9		Y	68

Dimensions and weights are approximate and subject to change

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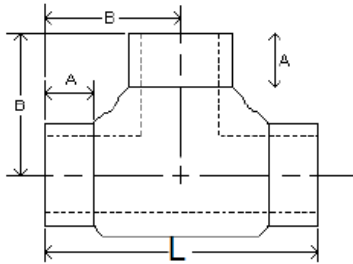
FM Molded IPS 45⁰ Ells
BLACK PE 4710 / 3608 / 3408 HDPE
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>A x B (in)</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
2" 2.38"	150	DR 11	2.5 X 4.5	Y	.80
	200	DR 9		Y	.80
	267	DR 7		Y	.80
3" 3.50"	150	DR 11	3.2 X 5.5	Y	2
	200	DR 9		Y	2
	267	DR 7		Y	2
4" 4.50"	150	DR 11	3.0 X 5.0	Y	4
	200	DR 9		Y	4
	267	DR 7		Y	4
6" 6.63"	150	DR 11	4.4 X 7.0	Y	7.5
	200	DR 9		Y	7.5
	267	DR 7		Y	7.5
8" 8.63"	150	DR 11	6.0 X 11.00	Y	21
	200	DR 9		Y	21.5
	267	DR 7		Y	25
*10" 10.75"	150	DR 11	6.0 X 13.25	Y	40.8
	200	DR 9		Y	47.5
*12" 12.75"	150	DR 11	7.5 X 15.75	Y	64
	200	DR 9		Y	74

Dimensions and weights are approximate and subject to change

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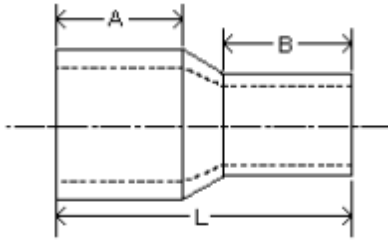
FM Molded IPS Tees
BLACK PE 4710 / 3608 / 3408 HDPE
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class</u> <u>(psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
2" 2.38"	150	DR 11	2.50 X 4.25 X 8.50	Y	1.0
	200	DR 9		Y	1.0
	267	DR 7		Y	1.0
3" 3.50"	150	DR 11	3.0 X 5.75 X 11.375	Y	2.2
	200	DR 9		Y	2.2
	267	DR 7		Y	2.2
4" 4.50"	150	DR 11	3.0 X 6.25 X 12.25	Y	3.8
	200	DR 9		Y	3.8
	267	DR 7		Y	3.8
6" 6.63"	150	DR 11	4.0 X 8.25 X 16.25	Y	10.0
	200	DR 9		Y	10.0
	267	DR 7		Y	10.0
8" 8.63"	150	DR 11	6.0 X 12.125 X 24.25	Y	27.5
	200	DR 9		Y	27.5
	267	DR 7		Y	27.5
*10" 10.75"	150	DR 11	6.0 X 13.25 X 26.50	Y	27.5
	200	DR 9		Y	27.5
*12" 12.75"	150	DR 11	7.5 X 15.88 X 31.276	Y	27.5
	200	DR 9		Y	27.5

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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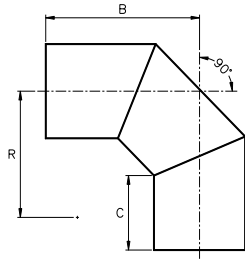
FM Molded IPS Reducers
BLACK PE 4710 / 3608 / 3408 HDPE
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>A x B X L(in)</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
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
	267	DR7		N	1
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
	267	DR 7		N	1.5
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
	267	DR 7		N	1.6
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
	267	DR 7		Y	8
8" X 4" 8.63" X 4.50"	150	DR 11	4.50 X 3.50 X 12.00	Y	8
	200	DR 9		Y	8
	267	DR 7		Y	10
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
	267	DR 7		Y	10
*10" X 8" 10.75" X 8.63"	150	DR 11	6.00 X 6.00 X 16.00	Y	16.5
	200	DR 9		Y	28
*12" X 10" 12.75" X 10.75"	150	DR 11	6.00 X 6.00 X 16.00	Y	25.4
	200	DR 9		Y	29.6

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

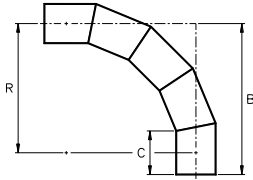
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FM Fabricated IPS 3-Segment 90 Ell
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Feed Stock</u>	<u>Dimensions</u> <u>R x C x B (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
10"	150	DR 9	12 1/2 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 3/8 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 1/8 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 x 8 x 26 1/16	N	239
22.000"	200	DR 7		N	286
24"	150	DR 9	24 X 8 X 27	N	298
24.000"	200	DR 7		N	356

2"-8" are available on request
Custom angle elbows are available upon request—Price on application



FM Fabricated IPS 5-Segment 90 EI
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
FACTORY MUTUAL APPROVED

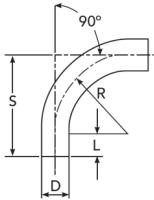
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock</u>	<u>Dimensions</u> <u>R x C x B (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
2" 2.375"	160	DR 9	12 7/8 x 4 x 14 3/4	N	2
	200	DR 7		N	2
3" 3.500"	160	DR 9	13 1/2 x 4 x 15 1/4	N	4
	200	DR 7		N	4
4" 4.500"	160	DR 9	14 1/8 x 5 x 16 7/8	N	7
	200	DR 7		N	8
6" 6.625"	160	DR 9	15 1/8 x 6 x 15 7/8	N	16
	200	DR 7		N	19
8" 8.625"	160	DR 9	16 x 6 1/2 x 20 3/8	N	29
	200	DR 7		N	35
10" 10.750"	160	DR 9	17 1/2 x 6 1/2 x 21 3/8	N	47
	200	DR 7		N	58
12" 12.750"	160	DR 9	19 1/2 x 8 x 24 7/8	N	77
	200	DR 7		N	95
14" 14.000"	160	DR 9	21 x 8 x 26 1/4	N	97
	200	DR 7		N	120
16" 16.000"	160	DR 9	23 7/8 x 8 x 28 7/8	N	137
	200	DR 7		N	164
18" 18.000"	160	DR 9	27 x 8 x 31 3/8	N	189
	200	DR 7		N	225
20" 20.000"	160	DR 9	29 7/8 x 8 x 34	N	251
	200	DR 7		N	300
22" 22.000"	160	DR 9	33 x 8 x 36 5/8	N	325
	200	DR 7		N	389
24" 24.000"	160	DR 9	36 1/8 x 8 x 39 1/4	N	413
	200	DR 7		N	493

Custom angles are available in any degree — Price on application

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

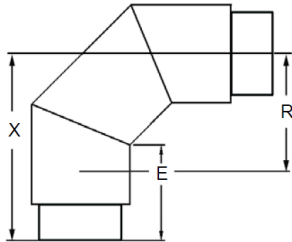
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FM IPS Sweep 90 Ell
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Feed Stock</u>	<u>Dimensions</u> <u>L x R x S (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
*2" 2.375"	160	DR 11	6.0 x 7.13 x 13.13	N	1.4
	200	DR 9		N	1.5
*3" 3.500"	160	DR 11	6.0 x 10.5 x 16.5	N	3.8
	200	DR 9		N	3.9
*4" 4.500"	160	DR 11	6.0 x 13.5 x 19.5	N	7
	200	DR 9		N	7.5
*6" 6.625"	160	DR 11	7.0 x 19.9 x 26.9	N	20
	200	DR 9		N	22.3
*8" 8.625"	160	DR 11	10.0 x 24.5 x 34.5	N	46
	200	DR 9		N	48.7
*10" 10.750"	160	DR 11	11.0 x 32.25 x 43.2	N	78.6
	200	DR 9		N	94
*12" 12.750"	160	DR 11	13.0 x 38.3 x 51.3	N	131.2
	200	DR 9		N	156.8
*14" 14.000"	160	DR 11	13.0 x 38.9 x 51.9	N	156
	200	DR 9		N	191.2

Custom angles are available in 30 deg., 45 deg., and 60 deg.— Price on application



FM Fabricated IPS 3-Segment 90 Ell
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
EXTERNALLY REINFORCED PE 4710 HDPE
FULL BORE INSIDE DIAMETER
CLASS 267 FACTORY MUTUAL APPROVED

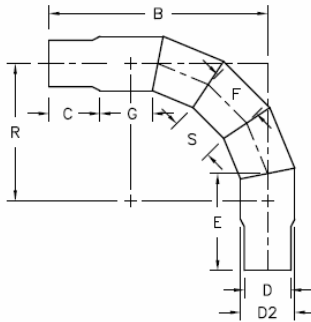
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock O.D.</u>	<u>Dimensions</u> <u>R x X x E (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*4" 4.50"	267	6.625	10.0 x 19.2 x 12.0	N	CALL
*6" 6.625"	267	8.625	10.7 x 20.6 x 12.5	N	CALL
*8" 8.625"	267	10.750	13.5 x 23.1 x 13	N	CALL
*10" 10.750"	267	12.75	16.0 x 26.5 x 14.5	N	CALL
*12" 12.750"	267	14.00	14.5 x 27.4 x 16.0	N	CALL
*14" 14.000"	267	16.00	16.8 x 29.2 x 16.0	N	CALL
*16" 16.000"	267	18.00	18.4 x 30.5 x 16.0	N	CALL
*18" 18.000"	267	20.00	20.4 x 32.1 x 16.0	N	CALL
*20" 20.000"	267	22.00	22.4 x 33.7 x 16.0	N	CALL
*22" 22.00"	267	24.00	24.5 x 35.3 x 16.0	N	CALL
*24" 24.00"	267	26.00	26.5 x 38.9 x 18.0	N	CALL

Custom angles are available in any degree 11.25⁰ - 90⁰ .— Price on application

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

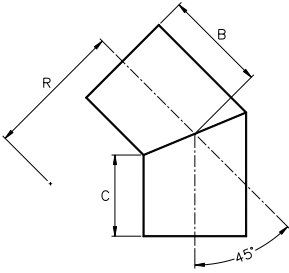
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FM Fabricated IPS 5-Segment 90 Ell
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
EXTERNALLY REINFORCED PE 4710 HDPE
FULL BORE INSIDE DIAMETER
CLASS 267 FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock</u>	<u>Dimensions</u> <u>R x C x B (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*8" 8.625"	267	DR 7	17 1/4 x 8 x 29	N	CALL
*10" 10.750"	267	DR 7	17 1/4 x 8 x 31 1/8	N	CALL
*12" 12.750"	267	DR 7	19 1/2 x 8 x 33	N	CALL
*14" 14.000"	267	DR 7	21 x 8 x 34 3/8	N	CALL
*16" 16.000"	267	DR 7	24 x 8 x 37	N	CALL
*18" 18.000"	267	DR 7	27 x 8 x 16	N	CALL
*20" 20.000"	267	DR 7	30 x 8 x 16	N	CALL

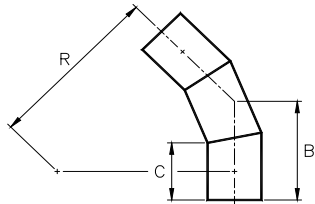
Custom angles are available in any degree 11.25^o - 90^o - Price on application



FM Fabricated IPS 2-Segment 45⁰ Ell
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Feed Stock</u>	<u>Dimensions</u> <u>R x C x B (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
10" 10.750"	150	DR 9	12 1/2 X 6 1/2 X 8 3/4	Y	22
	200	DR 7		Y	26
12" 12.750"	150	DR 9	13 5/8 X 8 X 10 5/8	Y	38
	200	DR 7		Y	45
14" 14.000"	150	DR 9	14 3/8 X 8 X 10 7/8	Y	48
	200	DR 7		Y	58
16" 16.000"	150	DR 9	15 1/4 X 8 X 11 5/16	Y	66
	200	DR 7		Y	79
18" 18.000"	150	DR 9	16 1/8 X 8 X 11 3/4	Y	83
	200	DR 7		Y	100
20" 20.000"	150	DR 9	17 1/4 X 8 X 12 1/8	N	108
	200	DR 7		N	129
22" 22.000"	150	DR 9	23 x 8 x 12 1/2	N	136
	200	DR 7		N	162
24" 24.000"	150	DR 9	24 X 8 X 13	N	168
	200	DR 7		N	201

2"-8" are available on request
Custom angle elbows are available upon request—Price on application



FM Fabricated IPS 3-Segment 45⁰ EII
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

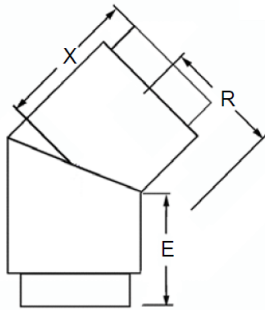
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Feed Stock</u>	<u>Dimensions</u> <u>R x C x B (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
2" 2.375"	150	DR 9	12 7/8 X 4 X 7	N	1
	200	DR 7		N	1
3" 3.50"	150	DR 9	13 1/2 X 4 X 7 1/4	N	2
	200	DR 7		N	2
4" 4.50"	150	DR 9	14 1/8 X 5 X 8 1/2	N	4
	200	DR 7		N	5
6" 6.625"	150	DR 9	15 1/8 X 6 X 10	N	10
	200	DR 7		N	12
8" 8.625"	150	DR 9	16 X 6 1/2 X 10 7/8	N	18
	200	DR 7		N	22
10" 10.750"	150	DR 9	17 1/2 X 6 1/2 X 11 1/4	N	29
	200	DR 7		N	35
12" 12.750"	150	DR 9	19 1/2 X 8 X 13 1/2	N	48
	200	DR 7		N	60
14" 14.000"	150	DR 9	21 X 8 X 13 7/8	N	60
	200	DR 7		N	74
16" 16.000"	150	DR 9	23 7/8 X 8 X 14 3/4	N	83
	200	DR 7		N	99
18" 18.000"	150	DR 9	27 X 8 X 15 5/8	N	111
	200	DR 7		N	132
20" 20.000"	150	DR 9	29 7/8 X 8 X 16 1/2	N	144
	200	DR 7		N	171
22" 22.000"	150	DR 9	33 X 8 X 17 1/4	N	183
	200	DR 7		N	219
24" 24.000"	150	DR 9	36 1/8 X 8 X 18 1/8	N	228
	200	DR 7		N	272

Custom angle elbows are available upon request—Price on application

Dimensions and weights are approximate and subject to change.

Feb. 2017 Supersedes all previous

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Web: hdpe.com and wolseleyindustrialgroup.com



FM Fabricated IPS 3-Segment 45 Ell
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
EXTERNALLY REINFORCED PE 4710 HDPE
FULL BORE INSIDE DIAMETER
CLASS 267 FACTORY MUTUAL APPROVED

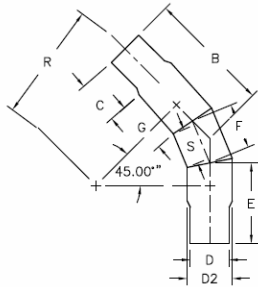
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock O.D.</u>	<u>Dimensions</u> <u>R x X x E (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*4" 4.50"	267	6.625	10.0 x 13.4 x 12.0	N	CALL
*6" 6.625"	267	8.625	10.7 x 14.3 x 12.5	N	CALL
*8" 8.625"	267	10.750	13.5 x 15.2 x 13	N	CALL
*10" 10.750"	267	12.75	16.0 x 17.1 x 14.5	N	CALL
*12" 12.750"	267	14.00	14.5 x 18.9 x 16.0	N	CALL
*14" 14.000"	267	16.00	16.8 x 19.3 x 16.0	N	CALL
*16" 16.000"	267	18.00	18.4 x 19.7 x 16.0	N	CALL
*18" 18.000"	267	20.00	20.4 x 20.1 x 16.0	N	CALL
*20" 20.000"	267	22.00	22.4 x 20.6 x 16.0	N	CALL
*22" 22.00"	267	24.00	24.5 x 21.0 x 16.0	N	CALL
*24" 24.00"	267	26.00	26.5 x 23.4 x 18.0	N	CALL

Custom angles are available in any degree 11.25⁰ - 90⁰

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

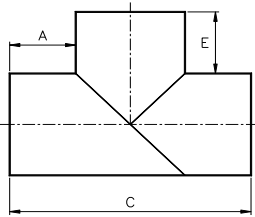
Wolseley Industrial Group—Industrial Plastics Division
 740 S. 28th St. / Washougal, WA 98671 / Ph. 800-634-5082 / Fax 360-835-3521
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 Web: hdpe.com and wolseleyindustrialgroup.com



FM Fabricated IPS 3-Segment 45⁰ Ell
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
SDR 7 FEEDSTOCK OVERWRAPPED WITH PE 4710 HDPE
FULL BORE INSIDE DIAMETER
Class 267 Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock</u>	<u>Dimensions</u> <u>R x C x B (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*8" 8.625"	267	DR 7	16 1/4 X 8 X 27	N	CALL
*10" 10.750"	267	DR 7	17 1/4 X 8 X 29	N	CALL
*12" 12.750"	267	DR 7	19 1/2 X 8 X 29 5/8	N	CALL
*14" 14.000"	267	DR 7	21 X 8 X 30 1/8	N	CALL
*16" 16.000"	267	DR 7	24 X 8 X 31	N	CALL
*18" 18.000"	267	DR 7	27 X 8 X 31 3/4	N	CALL
*20" 20.000"	267	DR 7	30 X 8 X 32 5/8	N	CALL

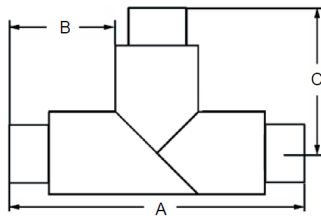
Custom angle elbows are available upon request—Price on request



FM Fabricated 3-Segment IPS Tee
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Feed Stock</u>	<u>Dimensions</u> <u>A x C x E (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
10" 10.750"	150	DR 9	8 x 26 3/4 x 8	Y	38
	200	DR 7		Y	48
12" 12.750"	150	DR 9	8 x 28 3/4 x 8	Y	66
	200	DR 7		Y	82
14" 14.000"	150	DR 9	9 x 32 x 9	Y	82
	200	DR 7		Y	102
16" 16.000"	150	DR 9	9 x 34 x 9	Y	135
	200	DR 7		Y	167
18" 18.000"	150	DR 9	10 x 38 x 10	Y	178
	200	DR 7		Y	221
20" 20.000"	150	DR 9	10 x 40 x 10	N	249
	200	DR 7		N	309
22" 22.000"	150	DR 9	12 x 42 x 10	N	312
	200	DR 7		N	390
24" 24.000"	150	DR 9	12 x 48 x 12	N	385
	200	DR 7		N	481

8" available on request - Price on application



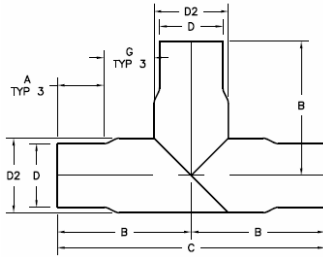
FM Fabricated 3-Segment IPS Tee
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
EXTERNALLY REINFORCED PE 4710 HDPE
FULL BORE INSIDE DIAMETER
CLASS 267 FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock O.D.</u>	<u>Dimensions</u> <u>A x B x C (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*4" 4.50"	267	6.625	30.6 X 10.0 X 15.3	N	CALL
*6" 6.625"	267	8.625	36.6 X 14.0 X 18.3	N	CALL
*8" 8.625"	267	10.75	39.8 X 14.5 X 19.9	N	CALL
*10" 10.750"	267	12.75	41.8 X 14.5 X 20.9	N	CALL
*12" 12.750"	267	14.00	48.0 X 17.0 X 24.0	N	CALL
*14" 14.000"	267	16.00	50.0 X 17.0 X 25.0	N	CALL
*16" 16.000"	267	18.00	54.0 X 18.0 X 27.0	N	CALL
*18" 18.000"	267	20.00	56.0 X 18.0 X 28.0	N	CALL
*20" 20.000"	267	22.00	62.0 X 20.0 X 31.0	N	CALL
*22" 24.000"	267	22.00	64.0 X 20.0 X 32.0	N	CALL
*24" 24.000"	267	26.00	70.0 X 22.0 X 35.0	N	CALL

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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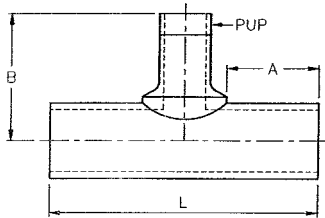
FM Fabricated 3-Segment IPS Tee
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
SDR 7 FEEDSTOCK OVERWRAPPED WITH PE 4710 HDPE
FULL BORE INSIDE DIAMETER
CLASS 267 FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock</u>	<u>Dimensions</u> <u>A x B x C (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*8" 8.625"	267	DR 7	8 X 20 1/3 X 40 5/8	Y	CALL
*10" 10.750"	267	DR 7	8 X 21 3/8 X 42 3/4	Y	CALL
*12" 12.750"	267	DR 7	8 X 22 3/8 X 44 3/4	Y	CALL
*14" 14.000"	267	DR 7	8 X 23 X 46	Y	CALL
*16" 16.000"	267	DR 7	8 X 24 X 48	Y	CALL
*18" 18.000"	267	DR 7	8 X 25 X 50	Y	CALL
*20" 20.000"	267	DR 7	8 X 26 X 52	N	CALL

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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FM IPS Branch Saddle Reducing Tees
2" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

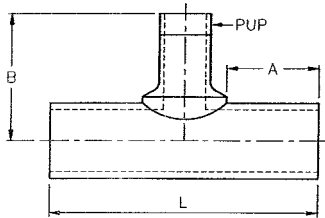
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
4" X 2" 4.50" X 2.375"	150	5 1/2 X 8 1/4 X 15 3/8	N	8
	200		N	9
6" X 2" 6.625" X 2.375"	150	6 X 9 3/8 X 16 3/8	N	11
	200		N	13
8"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

Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long - any pup length available as specified

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous price sheets

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FM IPS Branch Saddle Reducing Tees
3" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

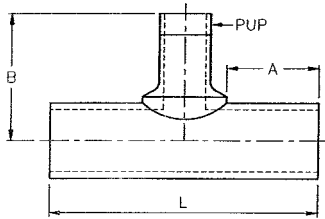
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
4" X 3" 4.50" X 3.50"	150	5 1/2 X 7 X 16	N	9
	200		N	10
6" X 3" 6.625" X 3.50"	150	6 X 8 X 17	N	15
	200		N	17
8" X 3" 12.75" X 3.50"	150	6 1/2 X 9 X 18	N	20
	200		N	23
10" X 3" 10.75" X 3.50"	150	6 1/2 X 10 1/8 X 18	N	27
	200		N	31
12" X 3" 12.75" X 3.50"	150	8 X 11 1/8 X 21	N	39
	200		N	46
14" X 3" 14.000" X 3.50"	150	8 X 11 3/4 X 21	N	46
	200		N	54
16" X 3" 16.000" X 3.50"	150	8 X 12 3/4 X 21	N	58
	200		N	68
18" X 3" 18.000" X 3.50"	150	8 X 13 3/4 X 21	N	71
	200		N	84
20" X 3" 20.000" X 3.50"	150	8 X 14 3/4 X 21	N	86
	200		N	101
22" X 3" 22.000" X 3.50"	150	8 X 15 3/4 X 21	N	102
	200		N	121
24" X 3" 24.000" X 3.50"	150	8 X 16 3/4 X 21	N	120
	200		N	142

Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long - any pup length available as specified

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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1701 S. 16th St., Suite 100 / La Porte, TX 77571 / Ph. 855-233-4373 / Fax 281-471-2275
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FM IPS Branch Saddle Reducing Tees
4" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

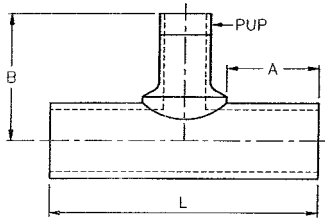
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
6" X 4" 6.625" X 4.50"	150	6 X 9 13/16 X 17	Y	26
	200		Y	28
	*267	6.7 x 13.3 x 19.0	N	CALL
8" X 4" 12.75" X 4.50"	150	6 1/2 X 10 13/16 X 18	Y	32
	200		Y	35
	*267	6.2 x 14.3 x 19.0	N	CALL
10" X 4" 10.75" X 4.50"	150	6 1/2 X 11 3/4 X 18	Y	39
	200		Y	45
	*267	6.2 x 15.4 x 19.0	N	CALL
12" X 4" 12.75" X 4.50"	150	8 X 12 3/4 X 21	Y	53
	200		Y	61
	*267	8.2 x 16.4 x 23.0	N	CALL
14" X 4" 14.000" X 4.50"	150	8 X 13 1/2 X 22 5/8	Y	60
	200		Y	69
	*267	10.2 x 17.4 x 27.0	N	CALL
16" X 4" 16.000" X 4.50"	150	8 X 14 1/2 X 22 5/8	Y	73
	200		Y	85
	*267	10.2 x 18.2 x 27.0	N	CALL
18" X 4" 18.000" X 4.50"	150	8 X 15 1/2 X 22 5/8	Y	88
	200		Y	102
	*267	10.2 x 19.0 x 27.0	N	CALL
20" X 4" 20.000" X 4.50"	150	8 X 16 1/2 X 22 5/8	N	104
	200		N	121
	*267	7.2 x 20.0 x 31.0	N	CALL
22" X 4" 22.000" X 4.50"	150	8 X 17 1/2 X 22 5/8	N	122
	200		N	143
	*267	7.2 x 21.0 x 31.0	N	CALL
24" X 4" 24.000" X 4.50"	150	8 X 18 1/2 X 22 5/8	N	141
	200		N	166
	*267	7.2 x 22.0 x 31.0	N	CALL

Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long - any pup length available as specified

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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FM IPS Branch Saddle Reducing Tees
6" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

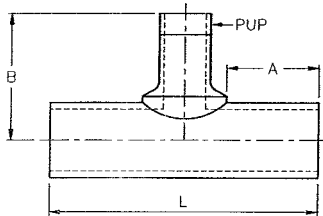
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
8" X 6" 8.625" X 6.625"	150	6 1/2 X 12 13/16 X 21 5/8	Y	35
	200		Y	38
	*267	6.2 X 14.3 X 21.0	N	CALL
10" X 6" 10.75" X 6.625"	150	6 1/2 X 13 7/8 X 21 5/8	Y	47
	200		Y	54
	*267	6.2 X 15.4 X 21.0	N	CALL
12" X 6" 12.75" X 6.625"	150	8 X 14 7/8 X 24 5/8	Y	61
	200		Y	71
	*267	7.7 X 16.4 X 24.0	N	CALL
14" X 6" 14.000" X 6.625"	150	8 X 15 1/2 X 24 5/8	Y	69
	200		Y	80
	*267	10.2 x 17.2 x 26.0	N	CALL
16" X 6" 16.000" X 6.625"	150	8 X 16 1/2 X 24 5/8	Y	83
	200		Y	97
	*267	10.2 x 18.2 x 27.0		CALL
18" X 6" 18.000" X 6.625"	150	8 X 17 1/2 X 24 5/8	Y	99
	200		Y	117
	*267	10.2 X 18.6 X 29.0	N	CALL
20" X 6" 20.000" X 6.625"	150	8 X 18 1/2 X 24 5/8	N	118
	200		N	138
	*267	12.2 X 19.6 X 33.0	N	CALL
22" X 6" 22.000" X 6.625"	150	8 X 19 1/2 X 24 5/8	N	138
	200		N	162
	*267	12.2 X 20.6 X 33.0	N	CALL
24" X 6" 24.000" X 6.625"	150	8 X 20 1/2 X 24 5/8	N	159
	200		N	188
	*267	12.2 X 21.6 X 33.0	N	CALL

Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long - any pup length available as specified

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

Wolseley Industrial Group—Industrial Plastics Division
740 S. 28th St. / Washougal, WA 98671 / Ph. 800-634-5082 / Fax 360-835-3521
1701 S. 16th St., Suite 100 / La Porte, TX 77571 / Ph. 855-233-4373 / Fax 281-471-2275
Web: hdpe.com and wolseleyindustrialgroup.com



FM IPS Branch Saddle Reducing Tees
8" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

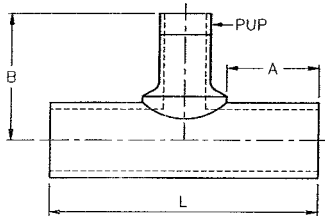
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
12" X 8" 12.75" X 8.625"	150	8 X 13 3/4 X 26 3/4	N	89
	200		N	100
	*267	8.6 X 25.4 X 28.0	N	CALL
14" X 8" 14.000" X 8.625"	150	8 X 15 1/2 X 26 3/4	N	97
	200		N	111
	*267	9.6 X 26.5 X 30.0	N	CALL
16" X 8" 16.000" X 8.625"	150	8 X 16 1/2 X 26 3/4	N	113
	200		N	129
	*267	10.6 X 27.8 X 32.0	N	CALL
18" X 8" 18.000" X 8.625"	150	8 X 17 1/2 X 26 3/4	N	129
	200		N	149
	*267	10.6 X 28.8 X 32.0	N	CALL
20" X 8" 20.000" X 8.625"	150	8 X 18 1/2 X 26 3/4	N	149
	200		N	172
	*267	12.6 X 29.6 X 36.0	N	CALL
22" X 8" 22.000" X 8.625"	150	8 X 19 1/2 X 26 3/4	N	170
	200		N	198
	*267	12.6 X 30.6 X 36.0	N	CALL
24" X 8" 24.000" X 8.625"	150	8 X 20 1/2 X 26 3/4	N	194
	200		N	225
	*267	12.6 X 31.6 X 36.0	N	CALL

Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long - any pup length available as specified

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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FM IPS Branch Saddle Reducing Tees
10" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

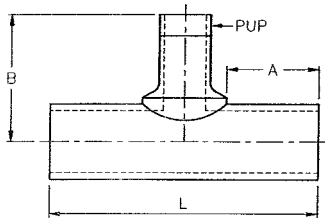
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
14" X 10" 14.000" X 10.75"	150	8 X 14 X 29 7/8	N	122
	200		N	138
	*267	9.6 X 27.4 X 32.0	N	CALL
16" X 10" 16.000" X 10.75"	150	8 X 15 X 29 7/8	N	139
	200		N	158
	*267	10.6 X 28.0 X 34.0	N	CALL
18" X 10" 18.000" X 10.75"	150	8 X 16 X 29 7/8	N	157
	200		N	180
	*267	10.6 X 29.0 X 34.0	N	CALL
20" X 10" 20.000" X 10.75"	150	8 X 17 X 29 7/8	N	178
	200		N	205
	*267	12.6 X 30.0 X 38.0	N	CALL
22" X 10" 22.000" X 10.75"	150	8 X 18 X 29 7/8	N	201
	200		N	232
	*267	12.6 X 31.2 X 38.0	N	CALL
24" X 10" 24.000" X 10.75"	150	8 X 19 X 29 7/8	N	226
	200		N	262
	*267	12.6 X 32.2 X 38.0	N	CALL

Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long - any pup length available as specified

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

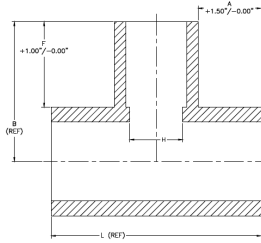
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FM IPS Branch Saddle Reducing Tees
12" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
16" X 12" 16.000" X 12.75"	150	8 X 17 X 31 7/8	N	158
	200		N	181
	*267	10.5 X 30.0 X 36.0	N	CALL
18" X 12" 18.000" X 12.75"	150	8 X 18 X 31 7/8	N	178
	200		N	204
	*267	10.5 X 31.0 X 36.0	N	CALL
20" X 12" 20.000" X 12.75"	150	8 X 19 X 31 7/8	N	199
	200		N	230
	*267	12.5 X 32.0 X 40.0	N	CALL
22" X 12" 22.000" X 12.75"	150	8 X 20 X 31 7/8	N	224
	200		N	259
	*267	12.5 X 33.0 X 40.0	N	CALL
24" X 12" 24.000" X 12.75"	150	8 X 21 X 31 7/8	N	251
	200		N	291
	*267	12.5 X 34.0 X 40.0	N	CALL

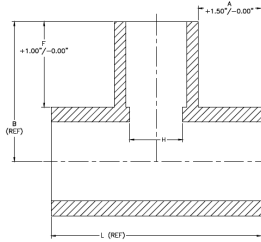
Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long - any pup length available as specified



FM IPS Straight Reducing Tees
10" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
14" X 10" 14.000" X 10.75"	150	8 X 18 X 27	N	158
	200		N	181
16" X 10" 16.000" X 10.75"	150	8 X 19 X 27	N	158
	200		N	181
18" X 10" 18.000" X 10.75"	150	8 X 20 X 27	N	178
	200		N	204
20" X 10" 20.000" X 10.75"	150	8 X 21 X 27	N	199
	200		N	230
22" X 10" 22.000" X 10.75"	150	8 X 22 X 27	N	224
	200		N	259
24" X 10" 24.000" X 10.75"	150	8 X 23 X 27	N	251
	200		N	291

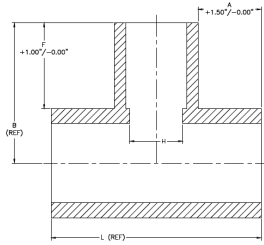
Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long—any pup length available as specified



FM IPS Straight Reducing Tees
12" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
16" X 12" 16.000" X 12.75"	150	8 X 20 X 29	N	158
	200		N	181
18" X 12" 18.000" X 12.75"	150	8 X 21 X 29	N	178
	200		N	204
20" X 12" 20.000" X 12.75"	150	8 X 22 X 29	N	199
	200		N	230
22" X 12" 22.000" X 12.75"	150	8 X 23 X 29	N	224
	200		N	259
24" X 12" 24.000" X 12.75"	150	8 X 24 X 29	N	251
	200		N	291

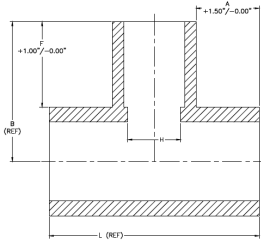
Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long—any pup length available as specified



FM IPS Straight Reducing Tees
14" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
18" X 14" 18.000" X 14.00"	150	8 X 22 X 31	N	178
	200		N	204
20" X 14" 20.000" X 14.00"	150	8 X 23 X 31	N	199
	200		N	230
22" X 14" 22.000" X 14.00"	150	8 X 24 X 31	N	224
	200		N	259
24" X 14" 24.000" X 14.00"	150	8 X 25 X 31	N	251
	200		N	291

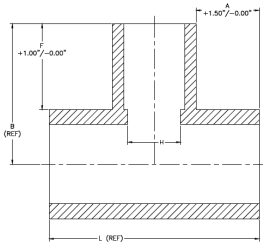
Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long—any pup length available as specified



FM IPS Straight Reducing Tees
16" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
20" X 16" 20.000" X 16.00"	150	8 X 24 X 33	N	199
	200		N	230
22" X 16" 22.000" X 16.00"	150	8 X 25 X 33	N	224
	200		N	259
24" X 16" 24.000" X 16.00"	150	8 X 26 X 33	N	251
	200		N	291

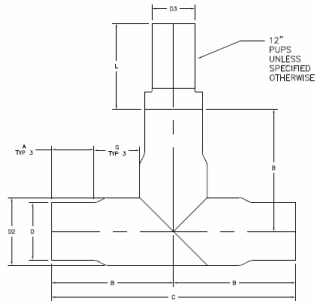
Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long—any pup length available as specified



FM IPS Straight Reducing Tees
18" Branch
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
22" X 18" 22.000" X 18.00"	150	8 X 27 X 35	N	224
	200		N	259
24" X 18" 24.000" X 18.00"	150	8 X 28 X 35	N	251
	200		N	291

Reducing tees are furnished without pup unless specified in the order
Dimensions shown does not include the pup which is standard 22" long—any pup length available as specified



FM IPS Reducing Tees

BLACK ASTM F714 HDPE 4710 / 3608 / 3408
SDR 7 FEEDSTOCK OVERWRAPPED WITH 4710 HDPE
Class 267 Factory Mutual Approved

<u>Nominal Size</u> Actual OD	<u>Pressure Class (psi)</u>	<u>Dimensions</u> C X B X L (in)	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
*8" X 6"*** 8.625" X 6.625"	267	40 5/8 X 20 1/3 X 11	Y	CALL
*10" X 6" 10.75" X 6.625"	267	42 3/4 X 21 3/8 X 16	Y	CALL
*12" X 6" 12.75" X 6.625"	267	44 3/4 X 22 3/8 X 16	Y	CALL
*14" X 6" 14.00" X 6.625"	267	46 X 23 X 16	Y	CALL
*16" X 6" 16.00" X 6.625"	267	48 X 24 X 16	Y	CALL
*18" X 6" 18.00" X 6.625"	267	50 X 25 X 17	Y	CALL
*20" X 6" 20.00" X 6.625"	267	52 X 26 X 17	N	CALL
*10" X 8" ** 10.75" X 8.625"	267	42 3/4 X 21 3/8 X 16	N	CALL
*12" X 8" ** 12.75" X 8.625"	267	44 3/4 X 22 3/8 X 17	N	CALL
*14" X 8" 14.00" X 8.625"	267	46 X 23 X 16	Y	CALL
*16" X 8" 16.00" X 8.625"	267	48 X 24 X 16	Y	CALL
*18" X 8" 18.00" X 8.625"	267	50 X 25 X 17	Y	CALL
*20" X 8" 20.00" X 8.625"	267	52 X 26 X 17	N	CALL

Unless otherwise shown, Tee with short style machined reducer and pup

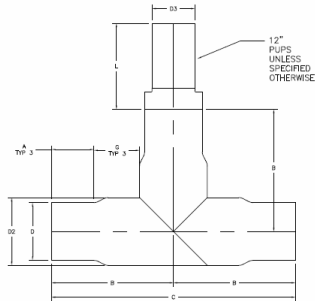
** Tee with Swage Reducer

*** Tee with Molded Reducer

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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FM IPS Reducing Tees

BLACK ASTM F714 HDPE 4710 / 3608 / 3408
SDR 7 FEEDSTOCK OVERWRAPPED WITH 4710 HDPE
Class 267 Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Dimensions</u> <u>C X B X L (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*12" X 10" ** 12.75" X 10.75"	267	44 3/4 X 22 3/8 X 16	Y	CALL
*14" X 10" 14.00" X 10.75"	267	46 X 23 X 16	Y	CALL
*16" X 10" 16.00" X 10.75"	267	48 X 24 X 16	Y	CALL
*18" X 10" 18.00" X 10.75"	267	50 X 25 X 17	Y	CALL
*20" X 10" 20.00" X 10.75"	267	52 X 26 X 17	Y	CALL
*14" X 12" ** 14.00" X 12.75"	267	46 X 23 X 18	Y	CALL
*16" X 12" 16.00" X 12.75"	267	48 X 24 X 16	N	CALL
*18" X 12" 18.00" X 12.75"	267	50 X 25 X 17	N	CALL
*20" X 12" 20.00" X 12.75"	267	52 X 26 X 17	N	CALL
*16" X 14" ** 16.00" X 14.00"	267	48 X 24 X 18	Y	CALL
*18" X 14" 18.00" X 14.00"	267	50 X 25 X 17	Y	CALL
*20" X 14" 20.00" X 14.00"	267	52 X 26 X 17	Y	CALL
*18" X 16" ** 18.00" X 16.00"	267	50 X 25 X 18	N	CALL
*20" X 16" 20.00" X 16.00"	267	52 X 26 X 17	N	CALL

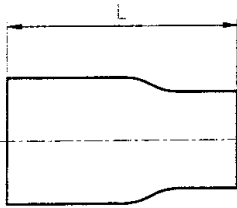
Unless otherwise shown, Tee with short style machined reducer and pup

** Tee with Swage Reducer

Dimensions and weights are approximate and subject to change.

Feb. 2017 Supersedes all previous

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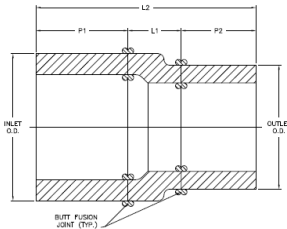
FM IPS Swage Reducer
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>L (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
10" X 8" 10.750" X 8.625"	150	16	Y	16
	200		Y	19
	*267		N	22
12" X 8" 12.750" X 8.625"	150	17	Y	23
	200		Y	28
12" X 10" 12.750" X 10.75"	150	16	Y	23
	200		Y	28
	*267		Y	30
14" X 10" 14.000" X 10.75"	150	18	Y	30
	200		Y	35
14" X 12" 14.000" X 12.75"	150	18	Y	33
	200		Y	39
	*267		Y	42
16" X 14" 16.000" X 14.00"	150	18	Y	42
	200		Y	50
	*267		Y	55
18" X 14" 18.000" X 14.00"	150	18	Y	49
	200		Y	59
18" X 16" 18.000" X 16.00"	150	18	Y	54
	200		Y	65
	*267		Y	75
20" X 18" 20.000" X 18.00"	150	20	N	75
	200		N	89
	*267		N	95
22" X 20" 22.000" X 20.00"	150	20	N	92
	200		N	109
24" X 22" 24.000" X 22.00"	150	20	N	110
	200		N	138

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

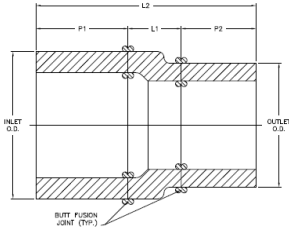
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FM IPS Fabricated Concentric Reducer
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>P1 X L1 X P2 (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
10" X 6" 10.75" X 6.625"	150	8 X 4 X 6	N	CALL
	200		N	CALL
	*267		N	CALL
12" X 6" 12.750" X 6.625"	150	8 X 4 X 6	N	CALL
	200		N	CALL
	*267		N	CALL
14" X 6" 14.00" X 6.625"	150	8 X 4 X 6	N	CALL
	200		N	CALL
	*267		N	CALL
16" X 6" 16.00" X 6.625	150	8 X 4 X 6	N	CALL
	200		N	CALL
	*267		N	CALL
18" X 6" 18.00" X 6.625	150	8 X 5 X 6	N	CALL
	200		N	CALL
	*267		N	CALL

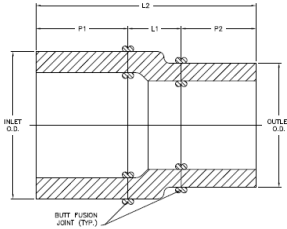
Custom pup lengths are available upon request



FM IPS Fabricated Concentric Reducer
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Dimensions</u> <u>P1 X L X P2 (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
14" X 8" 14.00" X 8.625"	150	8 X 4 X 6	N	CALL
	200		N	CALL
	*267		N	CALL
16" X 8" 16.00" X 8.625"	150	8 X 4 X 6	N	CALL
	200		N	CALL
	*267		N	CALL
18" X 8" 18.00" X 8.625"	150	8 X 5 X 6	N	CALL
	200		N	CALL
	*267		N	CALL
20" X 8" 20.00" X 8.625"	150	8 X 5 X 6	N	CALL
	200		N	CALL
	*267		N	CALL

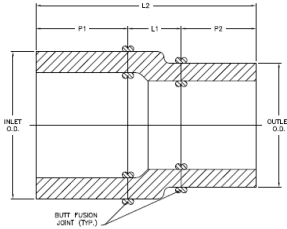
Custom pup lengths are available upon request



FM IPS Fabricated Concentric Reducer
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>P1 X L X P2 (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
14" X 10" 14.00" X 10.75"	150	8 X 4 X 8	N	CALL
	200		N	CALL
	*267		N	CALL
16" X 10" 16.00" X 10.75"	150	8 X 4 X 8	N	CALL
	200		N	CALL
	*267		N	CALL
18" X 10" 18.00" X 10.75"	150	8 X 5 X 8	N	CALL
	200		N	CALL
	*267		N	CALL
20" X 10" 20.00" X 10.75	150	8 X 5 X 8	N	CALL
	200		N	CALL
	*267		N	CALL
22" X 10" 22.00" X 10.75	150	8 X 5 X 8	N	CALL
	200		N	CALL
24" X 10" 24.00" X 10.75"	150	8 X 6 X 8	N	CALL
	200		N	CALL

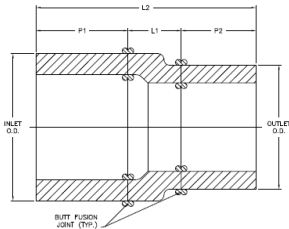
Custom pup lengths are available upon request



FM IPS Fabricated Concentric Reducer
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>P1 X L X P2 (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
16" X 12" 16.00" X 12.75"	150	8 X 4 X 8	N	CALL
	200		N	CALL
	*267		N	CALL
18" X 12" 18.00" X 12.75"	150	8 X 5 X 8	N	CALL
	200		N	CALL
	*267		N	CALL
20" X 12" 20.00" X 12.75	150	8 X 5 X 8	N	CALL
	200		N	CALL
	267		N	CALL
22" X 12" 22.00" X 12.75	150	8 X 5 X 8	N	CALL
	200		N	CALL
24" X 12" 24.00" X 12.75"	150	8 X 6 X 8	N	CALL
	200		N	CALL

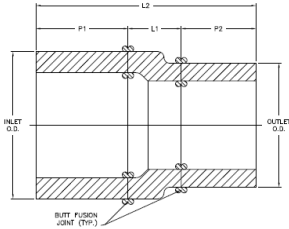
Custom pup lengths are available upon request



FM IPS Fabricated Concentric Reducer
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions P1 X L X P2 (in)	Std. Item	Weight per Item (lbs.)
18" X 14" 18.00" X 14.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL
	*267		N	CALL
20" X 14" 20.00" X 14.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL
	267		N	CALL
22" X 14" 22.00" X 14.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL
24" X 14" 24.00" X 14.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL
20" X 16" 20.00" X 16.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL
	267		N	CALL
22" X 16" 22.00" X 16.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL
24" X 16" 24.00" X 16.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL

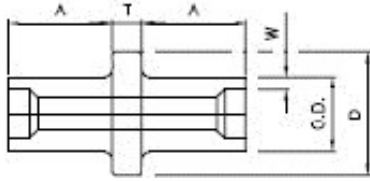
Custom pup lengths are available upon request



FM IPS Fabricated Concentric Reducer
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions P1 X L X P2 (in)	Std. Item	Weight per Item (lbs.)
22" X 18" 22.00" X 14.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL
24" X 18" 24.00" X 14.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL
24" X 20" 22.00" X 16.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL

Custom pup lengths are available upon request



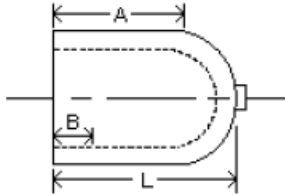
FM IPS Wall Anchor / Thrust Anchor
BLACK ASTM F714 HDPE 4710 / 3608 / 3408
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock</u>	<u>Dimensions</u> <u>A x T x D (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
3" 3.50"	150	DR 9	5.5 x 0.75 x 4.5	N	2
	200	DR 7		N	2
4" 4.50"	150	DR 9	5.5 x .9 x 6.625	N	4
	200	DR 7		N	4
	267	DR 7		N	6
6" 6.625"	150	DR 9	7 x 1.3 x 8.625	N	8
	200	DR 7		N	12
	267	DR 6		N	15
8" 8.625"	150	DR 9	7 x 1.73 x 10.75	N	12
	200	DR 7		N	22
	267	DR 6		N	25
10" 10.75"	150	DR 9	7 x 2.15 x 12.75	N	20
	200	DR 7		N	34
	267	DR 6		N	38
12" 12.75"	150	DR 9	7 x 2.5 x 16	N	36
	200	DR 7		N	52
	267	DR 6		N	60
14" 14.00"	150	DR 9	10 x 2.8 x 18	N	56
	200	DR 7		N	80
	267	DR 6		N	89
16" 16.00"	150	DR 9	10 x 3.2 x 20	N	74
	200	DR 7		N	106
	267	DR 6		N	112
18" 18.00"	150	DR 9	10 x 3.375 x 20	N	88
	200	DR 7		N	110
	267	DR 6		N	120
20" 20.00"	150	DR 9	10 x 3.375 x 24	N	112
	200	DR 7		N	140
	267	DR 6		N	150
22" 22.00"	150	DR 9	10 x 3.375 x 26	N	136
	200	DR 7		N	170
	267	DR 7	11 x 2.0 x 25.6	N	CALL
24" 24.00"	150	DR 9	10 x 3.375 x 28	N	168
	200	DR 7		N	204
	267	DR 7	13 x 2.0 x 28.0	N	CALL

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

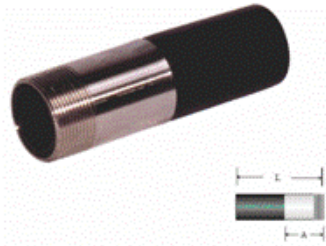
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1701 S. 16th St., Suite 100 / La Porte, TX 77571 / Ph. 855-233-4373 / Fax 281-471-2275
Web: hdpe.com and wolseleyindustrialgroup.com



FM Molded IPS Caps
BLACK PE 4710 / 3608 / 3408 HDPE
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>L(in)</u>	<u>Standard</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
2" 2.375"	150 200	DR 11 DR 9	2.80-4.25	Y Y	.3 .3
3" 3.50"	150 200	DR 11 DR 9	3.25-4.80	Y Y	.5 .5
4" 4.50"	150 200	DR 11 DR 9	4.00-8.50	Y Y	1.0 1.0
6" 6.63"	150 200	DR 11 DR 9	4.50-10.25	Y Y	2.4 2.4
8" 8.63"	150 200	DR 11 DR 9	4.75-12.41	Y Y	4.4 4.4
10" 10.75"	150 200	DR 11 DR 9	3.0	Y Y	6.5 6.5
12" 12.75"	150 200	DR 11 DR 9	4.0	Y Y	15.5 15.5
14" 14.00"	150 200	DR 11 DR 9	4.0	Y Y	15.5 15.5
16" 16.00"	150 200	DR 11 DR 9	4.0	Y Y	15.5 15.5
18" 18.00"	150 200	DR 11 DR 9	4.0	Y Y	15.5 15.5
20" 20.00"	150 200	DR 11 DR 9	4.0	Y Y	15.5 15.5
22" 24.00"	150 200	DR 11 DR 9	5.5	Y Y	
24" 24.00"	150 200	DR 11 DR 9	5.5	Y Y	15.5 15.5

10" and larger caps are fabricated and may be furnished with 12" pup on request.



FM Full Bore NPT Transition Fitting

AVAILABLE IN C.S., 316 S.S. AND BRASS
BLACK PE 4710 / 3608 / 3408 HDPE PIPE
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock</u>	<u>Dimensions</u> <u>A x L (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*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
*6" 6.625"	150	DR 11	4 1/2 X 9	Y	4.00
	200	DR 9		Y	4.00

Dimensions and weights are approximate and subject to change

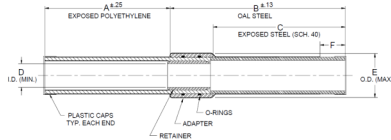
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FM Weld Transition Fitting

AVAILABLE IN C.S., AND 316 S.S.

MAY BE FURNISHED WITH BEVEL FOR WELDING, OR WITH
A105 FLANGES



<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock</u>	<u>Dimensions</u> <u>A x B (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
*2" 2.375"	150	DR 11	4 x 9	N	CALL
	200	DR 9		N	CALL
*3" 3.500"	150	DR 11	5 x 9	N	CALL
	200	DR 9		N	CALL
*4" 4.500"	150	DR 11	12.06 X 14.88	N	CALL
	200	DR 9		N	CALL
*6" 6.625"	150	DR 11	17.4 X 17.9	N	CALL
	200	DR 9		N	CALL
*8" 8.625"	150	DR 11	24.44 X 22.88	N	CALL
	200	DR 9		N	CALL
*10" 10.750"	150	DR 11	22.5 X 27.09	N	CALL
	200	DR 9		N	CALL
*12" 12.750"	150	DR 11	20.44 X 27.88	N	CALL
	200	DR 9		N	CALL
*14" 14.000"	150	DR 11	CALL	N	CALL
	200	DR 9		N	CALL
*16" 16.000"	150	DR 11	CALL	N	CALL
	200	DR 9		N	CALL
*18" 18.000"	150	DR 11	CALL	N	CALL
	200	DR 9		N	CALL
*20" 20.000"	150	DR 11	CALL	N	CALL
	200	DR 9		N	CALL

Dimensions and weights are approximate and subject to change

Feb. 2017 Supersedes all previous

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