

**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**



## Factory Mutual Pipe and Fittings—Table of Contents

Click on the page number to jump to the page

Contents	Page
Pipe.....	4-5
Flange Adapters .....	6-7
Beveled Flange Adapters .....	8
Ductile Iron Backup Rings .....	9-10
Polypropylene Encased D.I. Rings.....	11
316 Stainless Steel Backup Rings .....	12
A 105 Forged Lap Joint Backup Rings .....	13-14
A 105 Forged Blind Flanges .....	15-16
FM Approved Flange Bolt Kits .....	17
Mechanical Joint Adapters .....	18
Electro-Fusion Couplings .....	19-20
Plain End D.I. Couplings .....	21
Plain End D.I. Flanges .....	22
Plain End D.I. Groove Transition Coupling .....	23
Molded 90° Ells 2" to 12".....	24
Molded 45° Ells 2" to 12".....	25
Molded Tees 2" to 12".....	26
Molded Reducers 3" to 12".....	27
Fabricated 3 segment 90° Ells 10" to 24".....	28
Fabricated 5 segment 90° Ells 2" to 24".....	29
Sweep Elbows.....	30
CL 267 Fab. 3 seg. and 5 seg. Full Bore 90° Ells.....	31-32
Fabricated 2 segment 45° Ells 10" to 24".....	33
Fabricated 3 segment 45° Ells 10" to 24" .....	34
CL 267 Fab. 2 seg. and 3 seg. Full Bore 45° Ells .....	35-36
Fabricated Tees 10" to 24".....	37
CL 267 Fab. Full Bore Tees .....	38-39
2" outlet Branch Saddle Reducing Tees .....	40
3" outlet Branch Saddle Reducing Tees .....	41
4" outlet Branch Saddle Reducing Tees .....	42
6" outlet Branch Saddle Reducing Tees .....	43
8" outlet Branch Saddle Reducing Tees .....	44
10" outlet Branch Saddle Reducing Tees .....	45
12" outlet Branch Saddle Reducing Tees .....	46
10" outlet Straight Reducing Tees .....	47
12" outlet Straight Reducing Tees .....	48
14" outlet Straight Reducing Tees .....	49
16" outlet Straight Reducing Tees .....	50
18" outlet Straight Reducing Tees .....	51
CL 267 Fab. Full Bore Reducing Tees .....	52-53
Swage Reducers 10" to 24" .....	54
Fabricated Reducers 10" to 24" .....	55-60
Wall Anchors / Thrust Anchors .....	61
Molded and Fabricated Caps .....	62
NPT Transition Fittings 2" to 4".....	63
Weld and Flanged Transition Fittings 2" to 20" .....	64

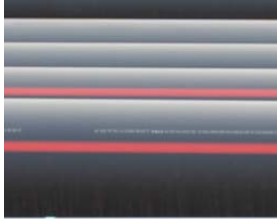
**\* All items marked with an asterisk are purchased from others with FM approval on these items**



## FM IPS Pipe

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

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions Min. Wall / I.D. (in)	Standard Item	Weight per foot (lbs.)
*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

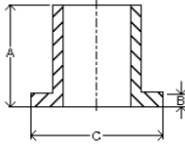
BLACK PE 4710 / 3608 / 3408 HDPE  
FACTORY MUTUAL APPROVED  
AVAILABLE IN BLACK OR WITH RED STRIPE

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions Min. Wall / I.D. (in)	Standard Item	Weight per foot (lbs.)
*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)



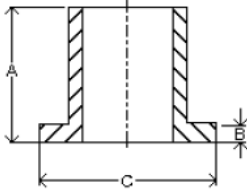
## FM IPS Flange Adapter

BLACK PE 4710 / 3608 / 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" 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. 2016 Supersedes all previous

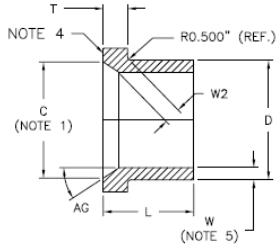


## FM IPS Flange Adapter

BLACK PE 4710 / 3608 / 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.)
*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

\* All Class 267 Flanges are currently furnished by others



## 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)**

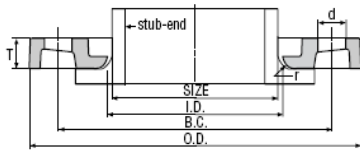
Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions L x T (in)	Standard Item	Weight per Item (lbs.)
*2" 2.375"	150	DR 11	6.56 X 0.55	N	.33
	200	DR 9	6.68 X 0.67	N	.40
	267	DR 7	6.68 X 0.67	N	.40
*3" 3.50"	150	DR 11	6.53 X 0.63	N	.83
	200	DR 9	6.71 X 0.81	N	1.00
	267	DR 7	6.71 X 0.81	N	1.00
*4" 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. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
 720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)





## 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.

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 0.75	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

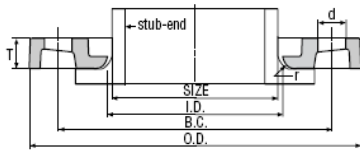
D.I. Rings can also be furnished hot dip galvanized or epoxy coated — Price on application. Domestic FM rings are only available in A105 forged carbon steel lap joint rings.

Dimensions and weights are approximate and subject to change

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**

720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



## 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</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>
*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

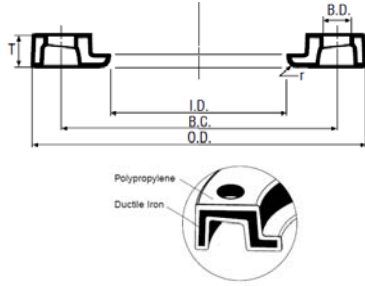
\*\*A36 Carbon Steel Plate Ring

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. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



### 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

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	6.46 X 2.63 X 0.71	4 / 5/8"	Y	1.80
	200	DR 9			Y	1.80
*3" 3.50"	150	DR 11	7.72 X 3.75 X 0.73	4 / 5/8"	Y	2.40
	200	DR 9			Y	2.40
*4" 4.50"	150	DR 11	9.33 X 4.75 X 0.98	8 / 5/8"	Y	4.20
	200	DR 9			Y	4.20
*6" 6.625	150	DR 11	11.69 X 7.09 X 1.18	8 / 3/4"	Y	7.10
	200	DR 9			Y	7.10
*8" 8.625"	150	DR 11	13.94 X 8.88 X 1.34	8 / 3/4"	Y	11.60
	200	DR 9			Y	11.60
*10" 10.75"	150	DR 11	16.73 X 11.00 X 1.52	12 / 7/8"	Y	16.00
	200	DR 9			Y	16.00
*12" 12.75"	150	DR 11	19.57 X 13.19 X 2.01	12 / 7/8"	Y	28.20
	200	DR 9			Y	28.20
*14" 14.00"	150	DR 11	21.34 X 14.38 X 2.05	12 / 1"	Y	35.70
	200	DR 9			Y	35.70
*16" 16.00"	150	DR 11	23.90 X 16.38 X 2.44	16 / 1"	Y	66.40
	200	DR 9			Y	66.40
*18" 18.00"	150	DR 11	25.51 X 18.38 X 2.44	16 / 1-1/8"	Y	60.60
	200	DR 9			Y	60.60
*20" 20.00"	150	DR 11	27.99 X 20.38 X 2.68	20 / 1-1/8"	Y	93.50
	200	DR 9			Y	93.50
*22" 20.00"	150	DR 11	30.31 X 22.38 X 3.19	20 / 1-1/4"	Y	104.90
	200	DR 9			Y	104.90
*24" 24.00"	150	DR 11	32.52 X 24.38 X 3.19	20 / 1-1/4"	Y	142.20
	200	DR 9			Y	142.20

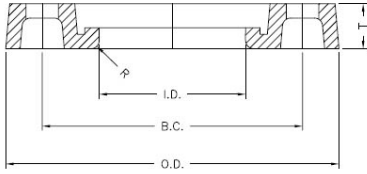
More corrosion resistant than Stainless Steel, and at a lower cost.

Dimensions and weights are approximate and subject to change

Feb. 2016 Supersedes all previous

#### Wolseley Industrial Group—Industrial Plastics Division

720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



### 316 Stainless Steel Backup Ring

ASTM A351 CF8M STAINLESS STEEL

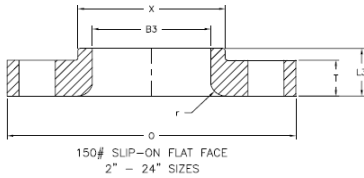
ANSI B 16.5 CLASS 150

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" 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

**Wolseley Industrial Group—Industrial Plastics Division**

720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



## 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

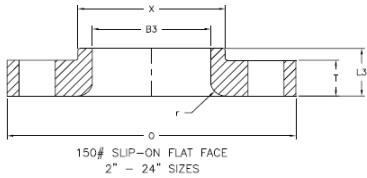
Continued on next page

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. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



## 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.**

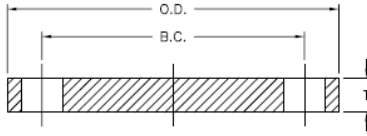
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>O.D. x I.D. X T(in)</u>	<u>No. Bolts / Bolt Diameter</u>	<u>Standard Item</u>	<u>Weight per Item (lbs.)</u>
22"	150	DR 11	27.50 X 20.38 X 1.63	20 / 1-1/8"	Y	165.00
22.00"	200	DR 9			Y	165.00
24"	150	DR 11	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 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. 2016 Supersedes all previous



## 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" 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

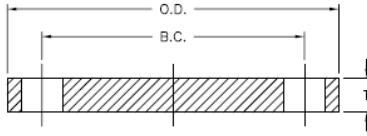
Continued on next page

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

Feb. 2016 Supersedes all previous





## FM IPS Forged Steel Blind Flange

ASTM A105 FORGED STEEL

FACTORY MUTUAL APPROVED

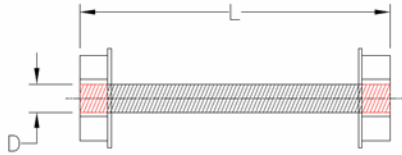
MILL LAQUER COATING STANDARD—OTHER FINISHES  
AVAILABLE ON REQUEST

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>SDR</u>	<u>Dimensions</u> <u>O.D. x B.C. 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>
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.**

Nominal Size Actual OD	Pressure Class (psi)	SDR	Number of bolts required	Dimensions D x L (in) HDPE TO HDPE Flange	Dimensions D x L (in) HDPE TO Metal Flange	Standard Item	Weight per set (lbs.)
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.

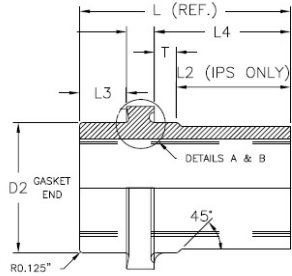
316 S.S. available on request.

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

Dimensions and weights are approximate and subject to change

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



## FM IPS MJ Adapter

BLACK PE 4710 / 3608 / 3408 HDPE  
 FACTORY MUTUAL APPROVED  
 FURNISHED WITH STAINLESS STEEL STIFFENER

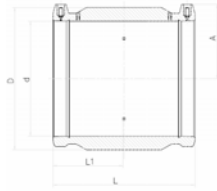
Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions L x L <sub>2</sub> (in)	No. Bolts / Bolt Diameter	Standard Item	Weight per Item (lbs.)
*3"	150	DR 11	10 1/4 X 6 1/2	4 / 4 1/2"	Y	5.00
3.50"	200	DR 9			Y	5.00
*4"	150	DR 11	10 1/4 X 6 1/2	4 / 4 -1/2"	Y	6.00
4.50"	200	DR 9			Y	6.00
*6"	150	DR 11	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

MJ Accessory Kits are AWWA—not FM approved.  
 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.

Dimensions and weights are approximate and subject to change

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
 720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



## FM IPS Electro-Fusion Coupling

BLACK PE 4710 / 3608 /3408 HDPE  
FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions D x L (in)	Standard Item	Weight per Item (lbs.)
*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

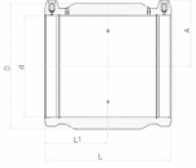
Dimensions may vary by manufacturer

Dimensions and weights are approximate and subject to change

Feb. 2016 Supersedes all previous

# WOLSELEY

INDUSTRIAL GROUP



## 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>
*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

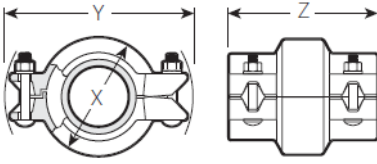
Dimensions may vary by manufacturer

Dimensions and weights are approximate and subject to change

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**

720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



## 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

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions X x Y x Z (in)	Standard Item	Weight per Item (lbs.)
*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.

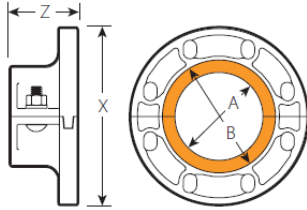
Standard bolts and nuts are carbon steel electro zinc plated — Hot dip galvanized and stainless steel is available on request.

Standard gasket material is EPDM - hydrocarbon resistant Nitrile is available on request.

Dimensions and weights are approximate and subject to change

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



**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.

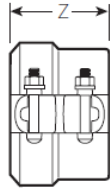
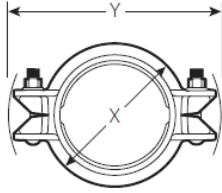
Standard bolts and nuts are carbon steel electro zinc plated — Hot dip galvanized and stainless steel is available on request.

Standard gasket material is EPDM - hydrocarbon resistant Nitrile is available on request.

Dimensions and weights are approximate and subject to change

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
 720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



## 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</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	3.31 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.

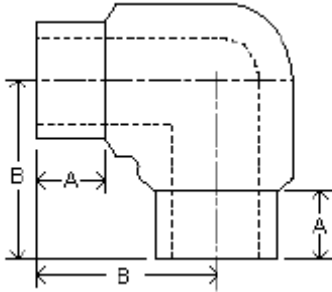
Standard bolts and nuts are carbon steel electro zinc plated — Hot dip galvanized and stainless steel is available on request

Standard gasket material is EPDM - hydrocarbon resistant Nitrile is available on request.

Dimensions and weights are approximate and subject to change

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
 720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



## FM Molded IPS 90° Ells

BLACK PE 4710 / 3608 / 3408 HDPE  
FACTORY MUTUAL APPROVED

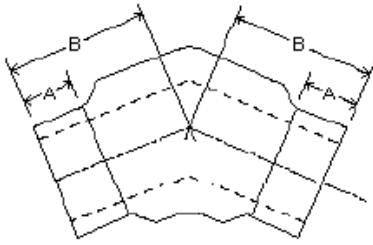
Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions A x B (in)	Standard Item	Weight per Item (lbs.)
2" 2.38"	150	DR 11	2.5 X 4.0	Y	.80
	200	DR 9		Y	.80
	267	DR 7		Y	.80
3" 3.50"	150	DR 11	3.0 X 5.5	Y	2
	200	DR 9		Y	2
	267	DR 7		Y	2
4" 4.50"	150	DR 11	3.0 X 6.0	Y	4
	200	DR 9		Y	4
	267	DR 7		Y	4
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

\* All Class 267 Fittings are currently furnished by others

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous





## FM Molded IPS 45<sup>0</sup> Ells

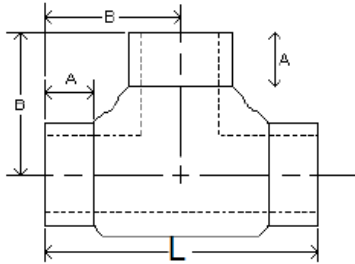
BLACK PE 4710 / 3608 / 3408 HDPE  
FACTORY MUTUAL APPROVED

<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

\* All Class 267 Fittings are currently furnished by others

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM Molded IPS Tees

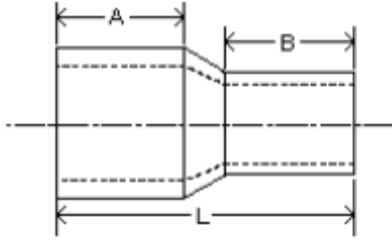
BLACK PE 4710 / 3608 / 3408 HDPE  
FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions A X B X L (in)	Standard Item	Weight per Item (lbs.)
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

\* All Class 267 Fittings are currently furnished by others

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM Molded IPS Reducers

BLACK PE 4710 / 3608 / 3408 HDPE  
FACTORY MUTUAL APPROVED

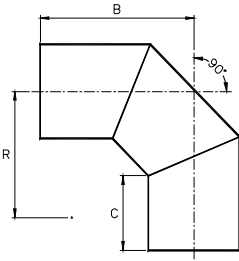
Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions A x B X L(in)	Standard Item	Weight per Item (lbs.)
3" X 2" 3.50" X 2.375"	150	DR 11	3.00 X 2.75 X 6.75	Y	.8
	200	DR 9		Y	.8
	267	DR7		N	1
4" X 2" 4.50" X 2.375"	150	DR 11	3.00 X 2.25 X 7.50	Y	1
	200	DR 9		Y	1
	267	DR 7		N	1.5
4" X 3" 4.50" X 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

\* All Class 267 Fittings are currently furnished by others

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)

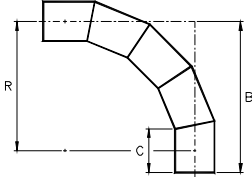


## FM Fabricated IPS 3-Segment 90 Ell

BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
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 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

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



## FM Fabricated IPS 5-Segment 90 Ell

BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
FACTORY MUTUAL APPROVED

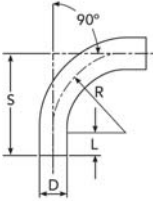
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock</u>	<u>Dimensions</u> <u>R x C x B (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
2" 2.375"	160	DR 9	12 7/8 x 4 x 14 3/4	N	2
	200	DR 7		N	2
3" 3.500"	160	DR 9	13 1/2 x 4 x 15 1/4	N	4
	200	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 — Call for quote.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)

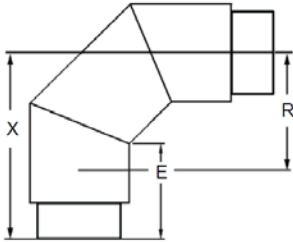


## FM IPS Sweep 90 Ell

BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
FACTORY MUTUAL APPROVED

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Feed</u> <u>Stock</u>	<u>Dimensions</u> <u>L x R x S (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>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.— Call for quote.



## 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**

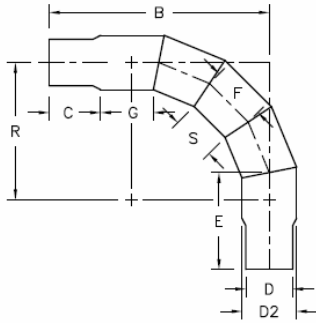
Nominal Size Actual OD	Pressure Class (psi)	Feed Stock O.D.	Dimensions R x X x E (in)	Std. Item	Weight per Item (lbs.)
*4" 4.50"	267	6.625	10.0 x 19.2 x 12.0	N	CALL
*6" 6.625"	267	8.625	10.7 x 20.6 x 12.5	N	CALL
*8" 8.625"	267	10.750	13.5 x 23.1 x 13	N	CALL
*10" 10.750"	267	12.75	16.0 x 26.5 x 14.5	N	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 11.25<sup>0</sup> - 90<sup>0</sup>.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
 720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



**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

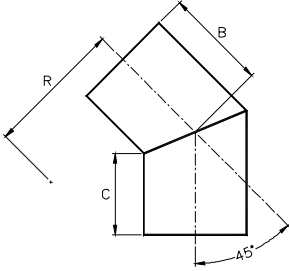
Custom angles are available in any degree 11.25<sup>0</sup>- 90<sup>0</sup>.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
 720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



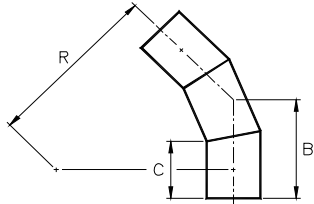


## FM Fabricated IPS 2-Segment 45<sup>0</sup> Ell

BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
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" 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

Custom angle elbows are available in any degree — Call for quote.  
2"-8" available on request.



## FM Fabricated IPS 3-Segment 45<sup>0</sup> Ell

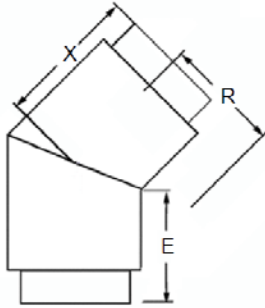
BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Feed Stock	Dimensions R x C x B (in)	Std. Item	Weight per Item (lbs.)
2" 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. 2016 Supersedes all previous



## 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**

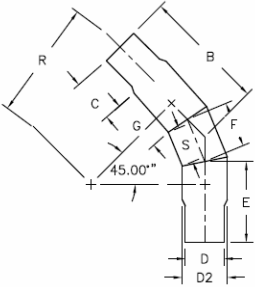
Nominal Size Actual OD	Pressure Class (psi)	Feed Stock O.D.	Dimensions R x X x E (in)	Std. Item	Weight per Item (lbs.)
*4" 4.50"	267	6.625	10.0 x 13.4 x 12.0	N	CALL
*6" 6.625"	267	8.625	10.7 x 14.3 x 12.5	N	CALL
*8" 8.625"	267	10.750	13.5 x 15.2 x 13	N	CALL
*10" 10.750"	267	12.75	16.0 x 17.1 x 14.5	N	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 11.25<sup>0</sup> - 90<sup>0</sup>.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
 720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



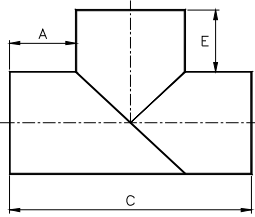
**FM Fabricated IPS 3-Segment 45° Ell**  
**BLACK ASTM F714 HDPE 4710 / 3608 / 3408**  
**SDR 7 FEEDSTOCK OVERWRAPPED WITH PE 4710 HDPE**  
**FULL BORE INSIDE DIAMETER**  
**Class 267 Factory Mutual Approved**

<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.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous

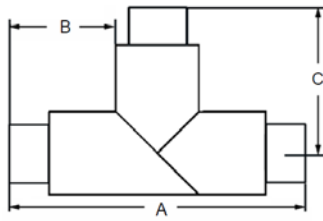


## FM Fabricated 3-Segment IPS Tee

BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
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"	150	DR 9	8 x 26 3/4 x 8	Y	38
10.750"	200	DR 7		Y	48
12"	150	DR 9	8 x 28 3/4 x 8	Y	66
12.750"	200	DR 7		Y	82
14"	150	DR 9	9 x 32 x 9	Y	82
14.000"	200	DR 7		Y	102
16"	150	DR 9	9 x 34 x 9	Y	135
16.000"	200	DR 7		Y	167
18"	150	DR 9	10 x 38 x 10	Y	178
18.000"	200	DR 7		Y	221
20"	150	DR 9	10 x 40 x 10	N	249
20.000"	200	DR 7		N	309
22"	150	DR 9	12 x 42 x 10	N	312
22.000"	200	DR 7		N	390
24"	150	DR 9	12 x 48 x 12	N	385
24.000"	200	DR 7		N	481

8" available on request.



## FM Fabricated 3-Segment IPS Tee

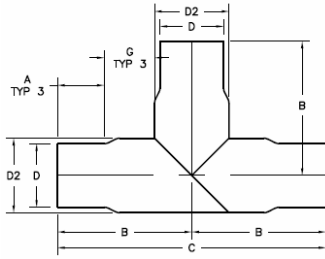
**BLACK ASTM F714 HDPE 4710 / 3608 / 3408**  
**EXTERNALLY REINFORCED PE 4710 HDPE**  
**FULL BORE INSIDE DIAMETER**  
**CLASS 267 FACTORY MUTUAL APPROVED**

<b>Nominal Size</b> <b>Actual OD</b>	<b>Pressure</b> <b>Class (psi)</b>	<b>Feed</b> <b>Stock O.D.</b>	<b>Dimensions</b> <b>A x B x C (in)</b>	<b>Std.</b> <b>Item</b>	<b>Weight per</b> <b>Item (lbs.)</b>
*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. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
 720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



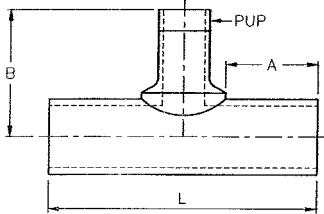
**FM Fabricated 3-Segment IPS Tee**  
**BLACK ASTM F714 HDPE 4710 / 3608 / 3408**  
**SDR 7 FEEDSTOCK OVERWRAPPED WITH PE 4710 HDPE**  
**FULL BORE INSIDE DIAMETER**  
**CLASS 267 FACTORY MUTUAL APPROVED**

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

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
 720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



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

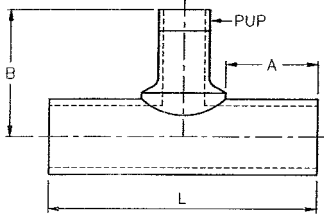
Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
4" X 2" 4.50" X 2.375"	150	5 1/2 X 8 1/4 X 15 3/8	N	8
	200		N	9
6" X 2" 6.625" X 2.375"	150	6 X 9 3/8 X 16 3/8	N	11
	200		N	13
8" X 2" 12.75" X 2.375"	150	6 1/2 X 10 7/8 X 17 3/8	N	16
	200		N	19
10" 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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous price sheets





## FM IPS Branch Saddle Reducing Tees

### 3" Branch

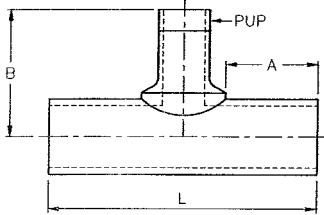
BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
4" X 3" 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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM IPS Branch Saddle Reducing Tees 4" Branch

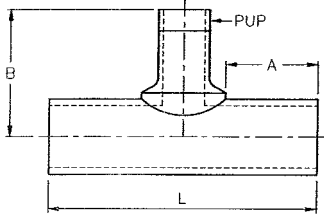
BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

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 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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM IPS Branch Saddle Reducing Tees 6" Branch

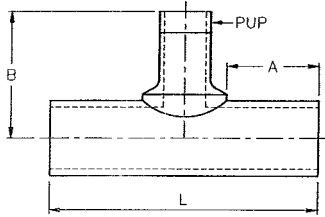
BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

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 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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM IPS Branch Saddle Reducing Tees 8" Branch

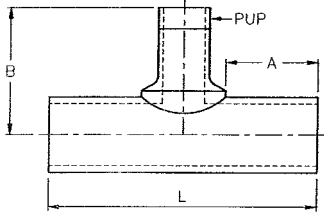
BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM IPS Branch Saddle Reducing Tees

### 10" Branch

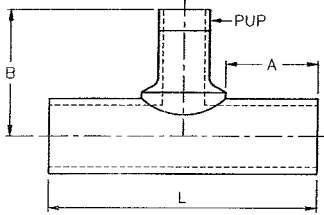
BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
14" X 10" 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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



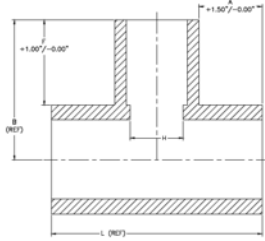
## FM IPS Branch Saddle Reducing Tees 12" Branch BLACK ASTM F714 HDPE 4710 / 3608 / 3408 Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</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>
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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM IPS Straight Reducing Tees 10" Branch

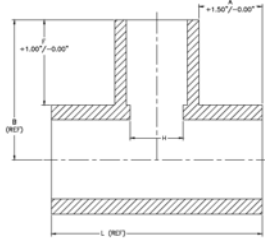
BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

<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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM IPS Straight Reducing Tees 12" Branch

**BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved**

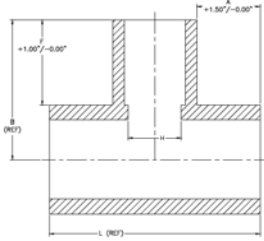
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</u> <u>Class (psi)</u>	<u>Dimensions</u> <u>A X B X L (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>Item (lbs.)</u>
16" X 12" 16.000" X 12.75"	150	8 X 20 X 29	N	158
	200		N	181
18" X 12" 18.000" X 12.75"	150	8 X 21 X 29	N	178
	200		N	204
20" X 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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous





## FM IPS Straight Reducing Tees 14" Branch

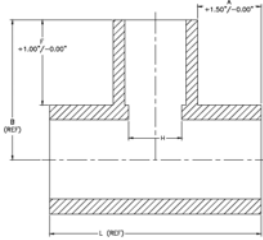
BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure</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>
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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous

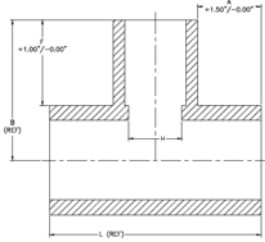


## FM IPS Straight Reducing Tees 16" Branch

BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions A X B X L (in)	Std. Item	Weight per Item (lbs.)
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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.

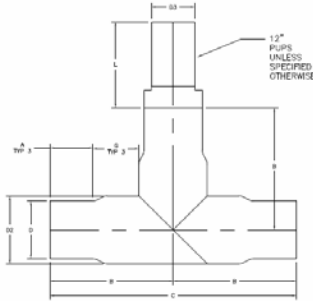


### FM IPS Straight Reducing Tees 18" Branch

**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. The dimension shown does not include the pup which is 22" long, but can be any dimension specified.



## FM IPS Reducing Tees

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

Nominal Size Actual OD	Pressure Class (psi)	Dimensions C X B X L (in)	Std. Item	Weight per Item (lbs.)
*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

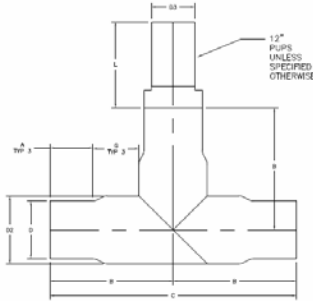
\*\*\*Tee with Molded Reducer

\*\* Tee with Swage Reducer

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

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM IPS Reducing Tees

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

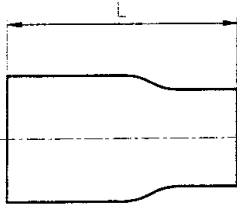
Nominal Size Actual OD	Pressure Class (psi)	Dimensions C X B X L (in)	Std. Item	Weight per Item (lbs.)
*12" X 10" ** 12.75" X 10.75"	267	44 3/4 X 22 3/8 X 16	Y	CALL
*14" X 10" 14.00" X 10.75"	267	46 X 23 X 16	Y	CALL
*16" X 10" 16.00" X 10.75"	267	48 X 24 X 16	Y	CALL
*18" X 10" 18.00" X 10.75"	267	50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

\*\* Tee with Swage Reducer  
Unless otherwise shown, Tee with short style machined reducer and pup

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous

**Wolseley Industrial Group—Industrial Plastics Division**  
720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)



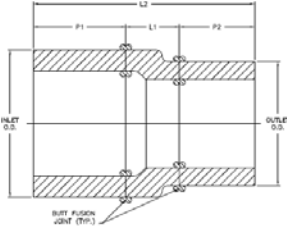
## FM IPS Swage Reducer

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>L (in)</u>	<u>Std.</u> <u>Item</u>	<u>Weight per</u> <u>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. 2016 Supersedes all previous



## FM IPS Fabricated Concentric Reducer

BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

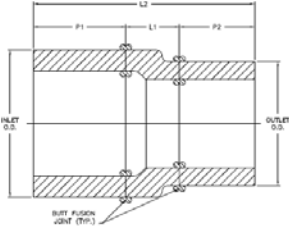
<u>Nominal Size</u> <u>Actual OD</u>	<u>Pressure Class (psi)</u>	<u>Dimensions</u> <u>P1 X L1 X P2 (in)</u>	<u>Std. Item</u>	<u>Weight per Item (lbs.)</u>
10" X 6" 10.75" X 6.625"	150	8 X 4 X 6	N	CALL
	200		N	CALL
	*267		N	CALL
12" X 6" 12.750" X 6.625"	150	8 X 4 X 6	N	CALL
	200		N	CALL
	*267		N	CALL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

Continued next page:

The large end pup may be deleted, and any of these reducers can be shop welded to any fitting in this catalog. Additionally, the small end pup can be deleted and a molded reducer, flange adapter, MJ, or other fitting can be attached. - Call for quote.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM IPS Fabricated Concentric Reducer

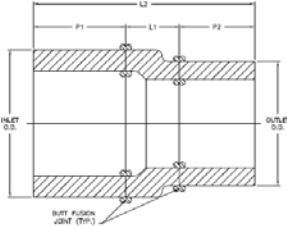
BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

Nominal Size Actual OD	Pressure Class (psi)	Dimensions P1 X L X P2 (in)	Std. Item	Weight per Item (lbs.)
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

Continued next page:

The large end pup may be deleted, and any of these reducers can be shop welded to any fitting in this catalog. Additionally, the small end pup can be deleted and a molded reducer, flange adapter, MJ, or other fitting can be attached. - Call for quote.





## FM IPS Fabricated Concentric Reducer

BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

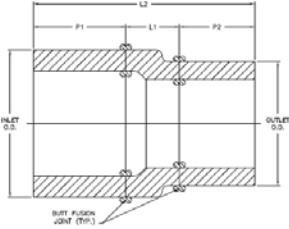
Nominal Size Actual OD	Pressure Class (psi)	Dimensions P1 X L X P2 (in)	Std. Item	Weight per Item (lbs.)
14" X 10" 14.00" X 10.75"	150	8 X 4 X 8	N	CALL
	200		N	CALL
	*267		N	CALL
16" X 10" 16.00" X 10.75"	150	8 X 4 X 8	N	CALL
	200		N	CALL
	*267		N	CALL
18" X 10" 18.00" X 10.75"	150	8 X 5 X 8	N	CALL
	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

Continued next page:

The large end pup may be deleted, and any of these reducers can be shop welded to any fitting in this catalog. Additionally, the small end pup can be deleted and a molded reducer, flange adapter, MJ, or other fitting can be attached. - Call for quote.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



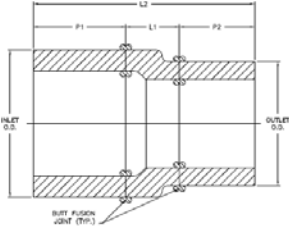
## FM IPS Fabricated Concentric Reducer

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.)
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

Continued next page:

The large end pup may be deleted, and any of these reducers can be shop welded to any fitting in this catalog. Additionally, the small end pup can be deleted and a molded reducer, flange adapter, MJ, or other fitting can be attached. - Call for quote.



## FM IPS Fabricated Concentric Reducer

BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

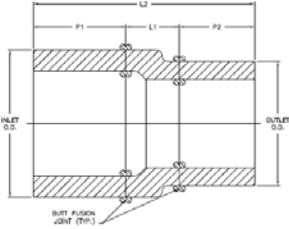
Nominal Size Actual OD	Pressure Class (psi)	Dimensions P1 X L X P2 (in)	Std. Item	Weight per Item (lbs.)
18" X 14" 18.00" X 14.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL
	*267		N	CALL
20" X 14" 20.00" X 14.00"	150	8 X 5 X 8	N	CALL
	200		N	CALL
	267		N	CALL
22" X 14" 22.00" X 14.00"	150	8 X 5 X 8	N	CALL
	200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

Continued next page:

The large end pup may be deleted, and any of these reducers can be shop welded to any fitting in this catalog. Additionally, the small end pup can be deleted and a molded reducer, flange adapter, MJ, or other fitting can be attached. - Call for quote.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM IPS Fabricated Concentric Reducer

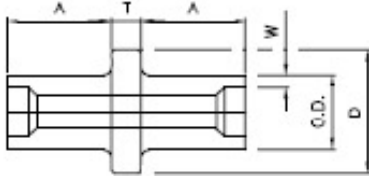
BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
Factory Mutual Approved

<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>
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

The large end pup may be deleted, and any of these reducers can be shop welded to any fitting in this catalog. Additionally, the small end pup can be deleted and a molded reducer, flange adapter, MJ, or other fitting can be attached. - Call for quote.

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



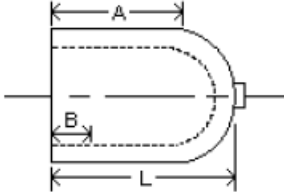
## FM IPS Wall Anchor / Thrust Anchor

BLACK ASTM F714 HDPE 4710 / 3608 / 3408  
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" 3.50"	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	10 x 3.375 x 26	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	10 x 3.375 x 28	N	204
	267	DR 7	13 x 2.0 x 28.0	N	CALL

Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous



## FM Molded IPS Caps

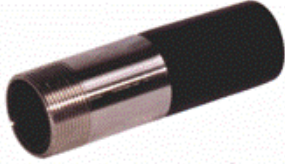
BLACK PE 4710 / 3608 / 3408 HDPE  
FACTORY MUTUAL APPROVED

Nominal Size Actual OD	Pressure Class (psi)	SDR	Dimensions L(in)	Standard Item	Weight per Item (lbs.)
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 are Fabricated. All fabricated caps may be furnished with a 12" pipe pup on request.

Dimensions and weights are approximate and subject to change

Feb. 2016 Supersedes all previous .



## 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

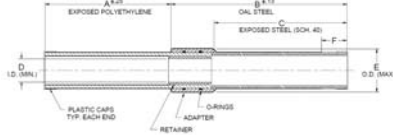
Dimensions and weights are approximate and subject to change.

Feb. 2016 Supersedes all previous

## FM Weld Transition Fitting

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

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



Nominal Size Actual OD	Pressure Class (psi)	Feed Stock	Dimensions A x B (in)	Std. Item	Weight per Item (lbs.)
*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. 2016 Supersedes all previous





**Wolseley Industrial Group—Industrial Plastics Division**  
720 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: [www.hdpe.com](http://www.hdpe.com) and [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)

**WOLSELEY**  
INDUSTRIAL GROUP



720 S. 28th St.  
Washougal, WA 98671  
Ph. 800-634-5082

1701 S. 16th St., Suite 100  
La Porte, Texas 77571 USA  
Ph. 1-855-233-4373

Web: [www.hdpe.com](http://www.hdpe.com)

Web: [www.wolseleyindustrialgroup.com](http://www.wolseleyindustrialgroup.com)