

American Water Works  
Association



<b>Product Family:</b>	Injection Molded Electrofusion Fitting	<b>Fitting Design:</b>	Coupler
<b>Resin Status:</b>	NSF Listed Bi-Modal Virgin Resin	<b>Nominal Pipe Sizes:</b>	14" – 63"
<b>Resin Type:</b>	ASTM D3350 designated PE3408/PE4710/PE100	<b>Nominal Pipe Standard:</b>	IPS and DIPS
<b>Resin Cell Class:</b>	4455574-CC3	<b>Currently Available SDR's:</b>	7/9, 11/17, 17/26
Manufactured and tested to meet requirements of:		ASTM F1055, ASTM D2513, ASTM D3261, ANSI/AWWA C901 & C906, FM 1613, NSF 61	
For use on pipe and fittings conforming to:		ASTM D2513, ASTM D3035, ASTM F-714	

*For Material and Testing information, please refer to our Electrofusion Fitting Specification Sheet.*

**IntegriFuse Injection Molded Electrofusion Couplers** are designed with **wider fusion zones** that facilitate increased surface melt and larger melt pools, **wider cold zones** for increased flexibility in pipe stab depths, melt flow indicators for visual confirmation of material expansion in the fusion zone, and have no need for pre-heating procedures when fusing in colder temperatures.

*Note: 54" and 63" couplers available only in SDR 15.5/17 and 21/33 only.*

## IPS

SDR 11/17 (standard dimension ratio)

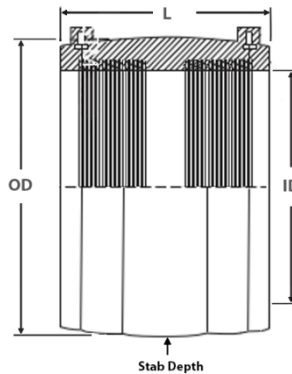
200/120 PSI Water – 100 PSI Gas (MAOP @ 73.4° F)

Nominal Size	OD [in.]	ID [in.]	L [in.]	Stab Depth [in.]	Weight [lbs.]	Item Code	FM Class
14" IPS	17.20	14.00	11.80	5.900	27.00	200326	FM 200 / FM 232
16" IPS	19.80	16.00	13.90	6.950	32.00	200329	FM 200 / FM 232
18" IPS *	22.30	18.00	16.70	8.350	75.00	200332	FM 200 / FM 232
20" IPS *	24.80	20.00	18.00	9.000	97.00	200335	FM 200 / FM 232
22" IPS *	27.40	22.00	19.50	9.750	123.0	200336	FM 200 / FM 232
24" IPS *	30.60	24.00	19.80	9.900	157.0	200338	FM 200 / FM 232
26" IPS **	31.90	26.00	20.20	10.10	171.0	200339	FM 200 / FM 232
28" IPS **	34.50	28.00	20.70	10.35	203.0	200341	FM 200 / FM 232
30" IPS **	37.00	30.00	20.70	10.35	238.0	200343	-----
32" IPS **	39.60	32.00	20.70	10.35	274.0	200345	-----
34" IPS **	42.10	34.00	21.70	10.85	308.7	200356	-----
36" IPS **	44.10	36.00	21.10	10.85	319.7	200347	-----
42" IPS **	51.20	42.00	22.60	11.30	465.2	200349	-----
48" IPS **	58.70	48.00	26.20	13.10	661.4	200351	-----

**NOTE:** Stab Depths are based on current fitting design and lengths and may be subject to change

\* Shows the fitting has dual fusion coils

\*\* Shows the fitting has a dual fusion coil and requires use of the I Fuse I-105 Processor for fusion



## IPS

SDR 15.5/17 (standard dimension ratio)

150/125 PSI Water MAOP @ 73.4° F

Nominal Size	OD [in.]	ID [in.]	L [in.]	Stab Depth [in.]	Weight [lbs.]	Item Code	FM Class
54" IPS **						200355	-----

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\*\* Shows the fitting has a dual fusion coil and requires use of the I Fuse I-105 Processor for fusion

## IPS

SDR 17/ 26 (standard dimension ratio)

120/80 PSI Water (MAOP @ 73.4° F)

Nominal Size	OD [in.]	ID [in.]	L [in.]	Stab Depth [in.]	Weight [lbs.]	Item Code	FM Class
24" IPS *	17.20	14.00	11.80	5.900	27.00	200352	FM 150
26" IPS **	19.80	16.00	13.90	6.950	32.00	200353	FM 150
28" IPS *	22.30	18.00	16.70	8.350	75.00	200340	FM 150
30" IPS *	24.80	20.00	18.00	9.000	97.00	200342	FM 150
32" IPS *	27.40	22.00	19.50	9.750	123.0	200344	FM 150
34" IPS *	30.60	24.00	19.80	9.900	157.0	200354	FM 150
36" IPS **	31.90	26.00	20.20	10.10	171.0	200346	FM 150
42" IPS **	34.50	28.00	20.70	10.35	203.0	200348	FM 150
48" IPS **	37.00	30.00	20.70	10.35	238.0	200350	FM 150

**NOTE:** Stab Depths are based on current fitting design and lengths and may be subject to change

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\*\* Shows the fitting has a dual fusion coil and requires use of the I Fuse I-105 Processor for fusion

## IPS

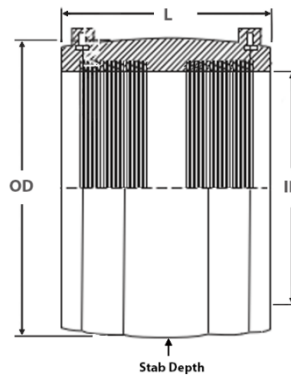
SDR 21/23 (standard dimension ratio)

100/90 PSI Water MAOP @ 73.4° F

Nominal Size	OD [in.]	ID [in.]	L [in.]	Stab Depth [in.]	Weight [lbs.]	Item Code	FM Class
54" IPS **					408	200361	FM 200 / FM 232

Fusion times for Electrofusion fittings are specifically determined to generate the proper "melt pool" needed to effectively join pipe and fittings based on specific SDR range of the fitting. The standard "rule of thumb" of +/- 1 SDR still applies to electrofusion fittings. SDR 11 Couplers can be fused on SDR 17 or SDR 9 pipe using the same fusion time. For applications with wall thicknesses that exceed +/- 1 SDR, the installer must contact Integrity Fusion Products for barcodes with modified fusion times, if available. **Important Note:** "systems installing components containing differing SDR's must be de-rated to the pressure rating of the component possessing the lowest pressure rating"

**Integrity Fusion Products strongly requires** that all individuals installing electrofusion fittings in permanent field applications should be done only by individuals who have a strong working knowledge of polyethylene and heat fusion methods, that have been properly trained, qualified, and hold a current training certificate issued from a recognized electrofusion fitting manufacturers authorized instructor, and that have demonstrated their understanding of these requirements by correctly preparing electrofusion test assemblies that have been qualified by recognized ASTM destructive testing. Other stipulations and regulations may apply, depending on fitting size, application, local codes, and/or jurisdictional oversight of other state and local regulating agencies.



### IPS

SDR 7 / 9 (standard dimension ratio)

335/250 PSI Water – 125 PSI Gas (MAOP @ 73.4° F)

Nominal Size	OD [in.]	ID [in.]	L [in.]	Stab Depth [in.]	Weight [lbs.]	Item Code	FM Class
14" IPS	19.53	14.00	13.78	6.890	70.50	200327	FM 267 / FM 400
16" IPS	22.44	16.00	15.87	7.935	101.0	200330	FM 267 / FM 400
18" IPS *	25.00	18.00	17.91	8.955	140.0	200333	FM 267 / FM 400
20" IPS *	28.00	20.00	18.50	9.250	TBD	200357	FM 267 / FM 400
22" IPS *	30.90	22.00	19.70	9.850	TBD	200358	FM 267 / FM 400
24" IPS *	33.60	24.00	20.70	10.35	TBD	200359	FM 267 / FM 400

NOTE: Stab Depths are based on current fitting design and lengths and may be subject to change

\* - shows the fitting has dual fusion coils

\*\* Shows the fitting has a dual fusion coil and requires use of the I Fuse I-105 Processor for fusion

### DIPS

SDR 11/17 (standard dimension ratio)

200/120 PSI Water – 100 PSI Gas (MAOP @ 73.4° F)

Nominal Size	OD [in.]	ID [in.]	L [in.]	Stab Depth [in.]	Weight [lbs.]	Item Code	FM Class
14" DIPS	18.90	15.30	13.90	6.950	45.00	200325	FM 200 / FM 232
16" DIPS	21.30	17.40	16.60	8.300	60.00	200328	FM 200 / FM 232
18" DIPS *	25.00	19.50	17.90	8.950	107.0	200331	FM 200 / FM 232
20" DIPS *	27.40	21.60	19.50	9.750	133.0	200334	FM 200 / FM 232
24" DIPS *	31.90	25.80	20.30	10.15	177.0	200337	FM 200 / FM 232
30" DIPS **	39.60	32.00	20.70	10.35	274.0	200345	Use 32" IPS Coupler
36" DIPS **	47.40	38.30	22.80	11.40		Special Order	-----
42" DIPS **	54.00	44.50	25.20	12.60		Special Order	-----
48" DIPS **		50.80				Special Order	-----

NOTE: Stab Depths are based on current fitting design and lengths and may be subject to change

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Fusion times for Electrofusion fittings are specifically determined to generate the proper "melt pool" needed to effectively join pipe and fittings based on specific SDR range of the fitting. The standard "rule of thumb" of +/- 1 SDR still applies to electrofusion fittings. SDR 11 Couplers can be fused on SDR 17 or SDR 9 pipe using the same fusion time. For applications with wall thicknesses that exceed +/- 1 SDR, the installer must contact Integrity Fusion Products for barcodes with modified fusion times, if available. **Important Note: "systems installing components containing differing SDR's must be de-rated to the pressure rating of the component possessing the lowest pressure rating"**

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