

American Water Works
Association



Product Family:	Injection Molded Electrofusion Fitting	Fitting Design:	Coupler
Resin Status:	NSF Listed Bi-Modal Virgin Resin	Nominal Pipe Sizes:	14" – 63"
Resin Type:	ASTM D3350 designated PE3408/PE4710/PE100	Nominal Pipe Standard:	IPS and DIPS
Resin Cell Class:	445574C-CC3	Currently Available SDR's:	7/9, 11/17, 17/26
Manufactured and tested to meet requirements of: For use on pipe and fittings conforming to:		ASTM F1055, ASTM D2513, ASTM D3261, ANSI/AWWA C901 & C906, FM 1613, NSF 61 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)

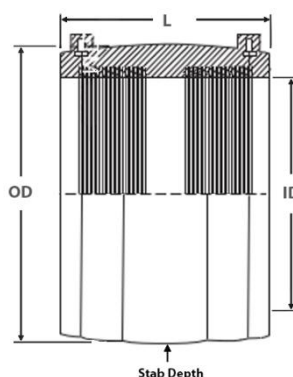
200/120 PSI Water – 100 PSI Gas (MAOP @ 73.4° F)

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



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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 **	61.30	54.0	24.80	12.40	524.7	200355	-----
63" IPS **	71.65	63.0	26.38	13.20	515.2	200362	-----

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 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 *	30.60	24.00	19.80	9.900	100.0	200352	FM 150
26" IPS **	31.90	26.00	20.20	10.10	110.0	200353	FM 150
28" IPS *	34.50	28.00	20.70	10.35	119.0	200340	FM 150
30" IPS *	37.00	30.00	20.70	10.35	166.0	200342	FM 150
32" IPS *	39.60	32.00	20.70	10.35	153.0	200344	FM 150
34" IPS *	42.10	34.00	21.70	10.85	206.0	200354	FM 150
36" IPS **	44.10	36.00	21.10	10.85	192.7	200346	FM 150
42" IPS **	51.20	42.00	22.60	11.30	278.0	200348	FM 150
48" IPS **	58.70	48.00	26.20	13.10	353.0	200350	FM 150

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

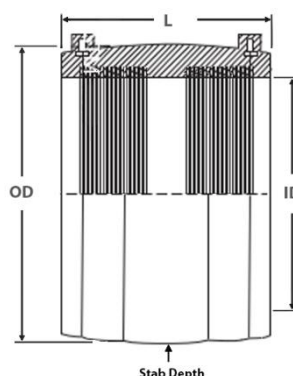
SDR 21/23 (standard dimension ratio)

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 **	61.30	54.0	24.80	12.40	408.0	200361	FM 200 / FM 232
63" IPS **	71.65	63.0	26.38	13.20	418.9	200362	-----

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	6.89	58.00	200327	FM 267 / FM 400
16" IPS	22.44	16.00	15.87	7.93	101.0	200330	FM 267 / FM 400
18" IPS *	25.00	18.00	17.91	8.95	140.0	200333	FM 267 / FM 400
20" IPS	27.36	20.00	19.69	9.84	156.00	200357	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

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

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.